



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : FAL-716-15L-30-PGG6-GWT.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12005  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 7/31/2020  
[TEST DATE] 07/14/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] FAL-716-15L-30-PGG6-GWT  
[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] Indoor  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

|   |                            |
|---|----------------------------|
| IES Classification                              | Type VS                    |
| Longitudinal Classification                     | Very Short                 |
| Lumens Per Lamp                                 | N.A. (absolute)            |
| Total Lamp Lumens                               | N.A. (absolute)            |
| Luminaire Lumens                                | 1485                       |
| Downward Total Efficiency                       | N.A. (absolute)            |
| Total Luminaire Efficiency                      | N.A. (absolute)            |
| Luminaire Efficacy Rating (LER)                 | 136                        |
| Total Luminaire Watts                           | 10.9                       |
| Ballast Factor                                  | 1.00                       |
| Upward Waste Light Ratio                        | 0.05                       |
| Maximum Candela                                 | 1000                       |
| Maximum Candela Angle                           | 67.5H 5V                   |
| Maximum Candela (<90 Degrees Vertical)          | 1000                       |
| Maximum Candela Angle (<90 Degrees Vertical)    | 67.5H 5V                   |
| Maximum Candela At 90 Degrees Vertical          | 20 (1.3% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 54 (3.6% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)            |



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 202.9    | N.A.   | 13.7        |
| FM - Front-Medium (30-60)     | 429.4    | N.A.   | 28.9        |
| FH - Front-High (60-80)       | 53.9     | N.A.   | 3.6         |
| FVH - Front-Very High (80-90) | 18.6     | N.A.   | 1.3         |
| BL - Back-Low (0-30)          | 202.9    | N.A.   | 13.7        |
| BM - Back-Medium (30-60)      | 429.4    | N.A.   | 28.9        |
| BH - Back-High (60-80)        | 53.9     | N.A.   | 3.6         |
| BVH - Back-Very High (80-90)  | 18.6     | N.A.   | 1.3         |
| UL - Uplight-Low (90-100)     | 20.0     | N.A.   | 1.4         |
| UH - Uplight-High (100-180)   | 55.1     | N.A.   | 3.7         |
| Total                         | 1484.7   | N.A.   | 100.0       |
| BUG Rating                    | B1-U3-G1 |        |             |

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**CANDELA TABULATION**

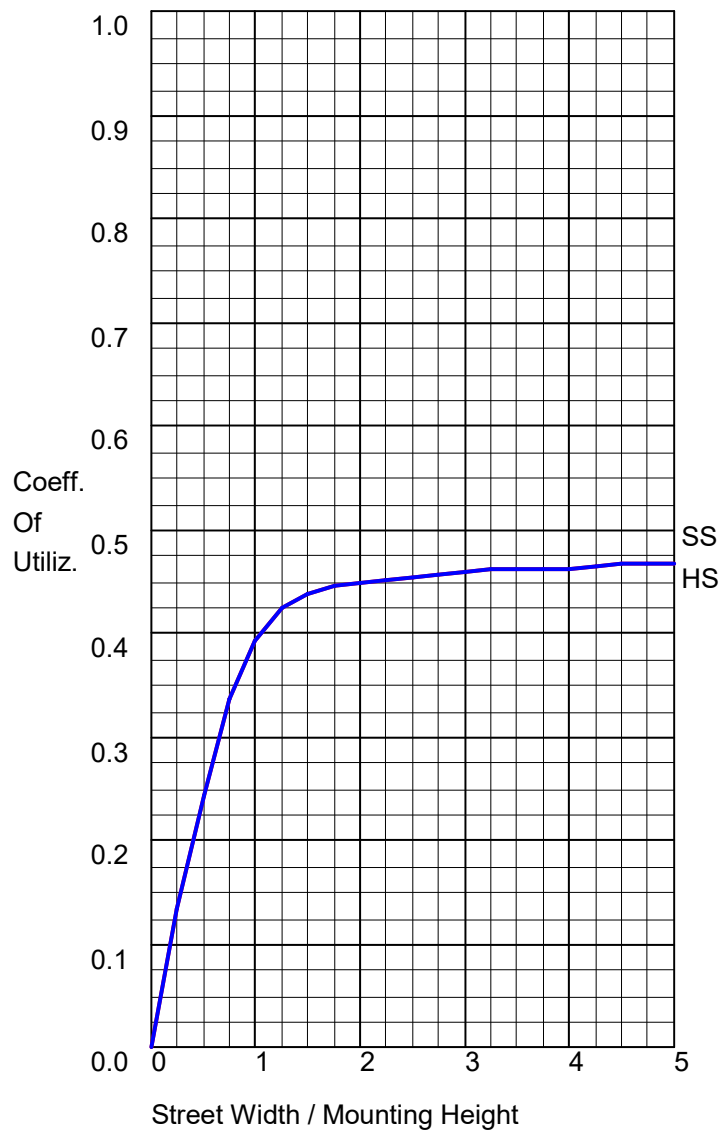
| Vert.<br>Angles | Horizontal Angles |             |             |             |             |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
|                 | <u>0.0</u>        | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
| 0.0             | 900               | 900         | 900         | 900         | 900         |
| 2.5             | 894               | 893         | 885         | 878         | 867         |
| 5.0             | 784               | 825         | 964         | 1000        | 938         |
| 7.5             | 553               | 631         | 873         | 968         | 931         |
| 10.0            | 417               | 391         | 542         | 570         | 506         |
| 12.5            | 310               | 288         | 334         | 272         | 304         |
| 15.0            | 262               | 275         | 324         | 224         | 321         |
| 17.5            | 337               | 347         | 438         | 345         | 453         |
| 20.0            | 511               | 483         | 527         | 489         | 541         |
| 22.5            | 533               | 495         | 474         | 474         | 473         |
| 25.0            | 489               | 473         | 458         | 444         | 434         |
| 27.5            | 512               | 508         | 504         | 488         | 489         |
| 30.0            | 526               | 526         | 529         | 522         | 526         |
| 32.5            | 538               | 536         | 544         | 533         | 538         |
| 35.0            | 530               | 529         | 534         | 534         | 534         |
| 37.5            | 504               | 508         | 511         | 518         | 517         |
| 40.0            | 498               | 495         | 493         | 499         | 498         |
| 42.5            | 489               | 485         | 481         | 478         | 481         |
| 45.0            | 485               | 484         | 485         | 478         | 477         |
| 47.5            | 459               | 468         | 476         | 472         | 472         |
| 50.0            | 383               | 397         | 404         | 396         | 394         |
| 52.5            | 264               | 281         | 292         | 287         | 279         |
| 55.0            | 154               | 162         | 173         | 169         | 162         |
| 57.5            | 79                | 82          | 83          | 83          | 82          |
| 60.0            | 61                | 61          | 61          | 61          | 63          |
| 62.5            | 56                | 56          | 57          | 57          | 57          |
| 65.0            | 53                | 53          | 53          | 53          | 54          |
| 67.5            | 57                | 56          | 52          | 50          | 52          |
| 70.0            | 50                | 60          | 63          | 56          | 48          |
| 72.5            | 42                | 56          | 52          | 49          | 41          |
| 75.0            | 48                | 54          | 50          | 50          | 41          |
| 77.5            | 42                | 53          | 54          | 49          | 38          |
| 80.0            | 41                | 54          | 48          | 43          | 34          |
| 82.5            | 38                | 48          | 41          | 37          | 31          |
| 85.0            | 34                | 39          | 33          | 34          | 29          |
| 87.5            | 31                | 33          | 29          | 30          | 26          |
| 90.0            | 20                | 19          | 18          | 18          | 18          |
| 92.5            | 18                | 19          | 18          | 18          | 18          |
| 95.0            | 19                | 19          | 19          | 19          | 19          |
| 97.5            | 18                | 18          | 18          | 18          | 18          |
| 100.0           | 18                | 18          | 18          | 18          | 18          |
| 102.5           | 16                | 18          | 18          | 18          | 16          |
| 105.0           | 14                | 15          | 15          | 15          | 14          |
| 107.5           | 12                | 14          | 14          | 14          | 12          |
| 110.0           | 10                | 11          | 11          | 11          | 11          |
| 112.5           | 10                | 10          | 10          | 10          | 10          |
| 115.0           | 10                | 10          | 10          | 10          | 10          |
| 117.5           | 10                | 10          | 10          | 10          | 10          |
| 120.0           | 10                | 10          | 10          | 10          | 10          |
| 122.5           | 10                | 10          | 10          | 10          | 10          |
| 125.0           | 10                | 10          | 10          | 10          | 10          |
| 127.5           | 10                | 10          | 10          | 10          | 10          |
| 130.0           | 10                | 10          | 10          | 10          | 10          |

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**CANDELA TABULATION - (Cont.)**

|              |    |    |    |    |    |
|--------------|----|----|----|----|----|
| <b>132.5</b> | 10 | 10 | 10 | 10 | 10 |
| <b>135.0</b> | 10 | 10 | 10 | 10 | 10 |
| <b>137.5</b> | 10 | 10 | 10 | 10 | 10 |
| <b>140.0</b> | 10 | 10 | 10 | 10 | 10 |
| <b>142.5</b> | 10 | 10 | 10 | 10 | 10 |
| <b>145.0</b> | 10 | 10 | 10 | 10 | 10 |
| <b>147.5</b> | 8  | 10 | 10 | 10 | 10 |
| <b>150.0</b> | 8  | 8  | 10 | 8  | 8  |
| <b>152.5</b> | 8  | 8  | 8  | 8  | 8  |
| <b>155.0</b> | 8  | 8  | 8  | 8  | 8  |
| <b>157.5</b> | 8  | 8  | 8  | 8  | 8  |
| <b>160.0</b> | 8  | 8  | 8  | 8  | 8  |
| <b>162.5</b> | 7  | 7  | 7  | 7  | 7  |
| <b>165.0</b> | 7  | 7  | 7  | 7  | 7  |
| <b>167.5</b> | 7  | 7  | 7  | 7  | 7  |
| <b>170.0</b> | 7  | 7  | 7  | 7  | 5  |
| <b>172.5</b> | 5  | 5  | 5  | 5  | 5  |
| <b>175.0</b> | 5  | 5  | 5  | 5  | 5  |
| <b>177.5</b> | 4  | 4  | 4  | 5  | 5  |
| <b>180.0</b> | 4  | 4  | 4  | 4  | 4  |

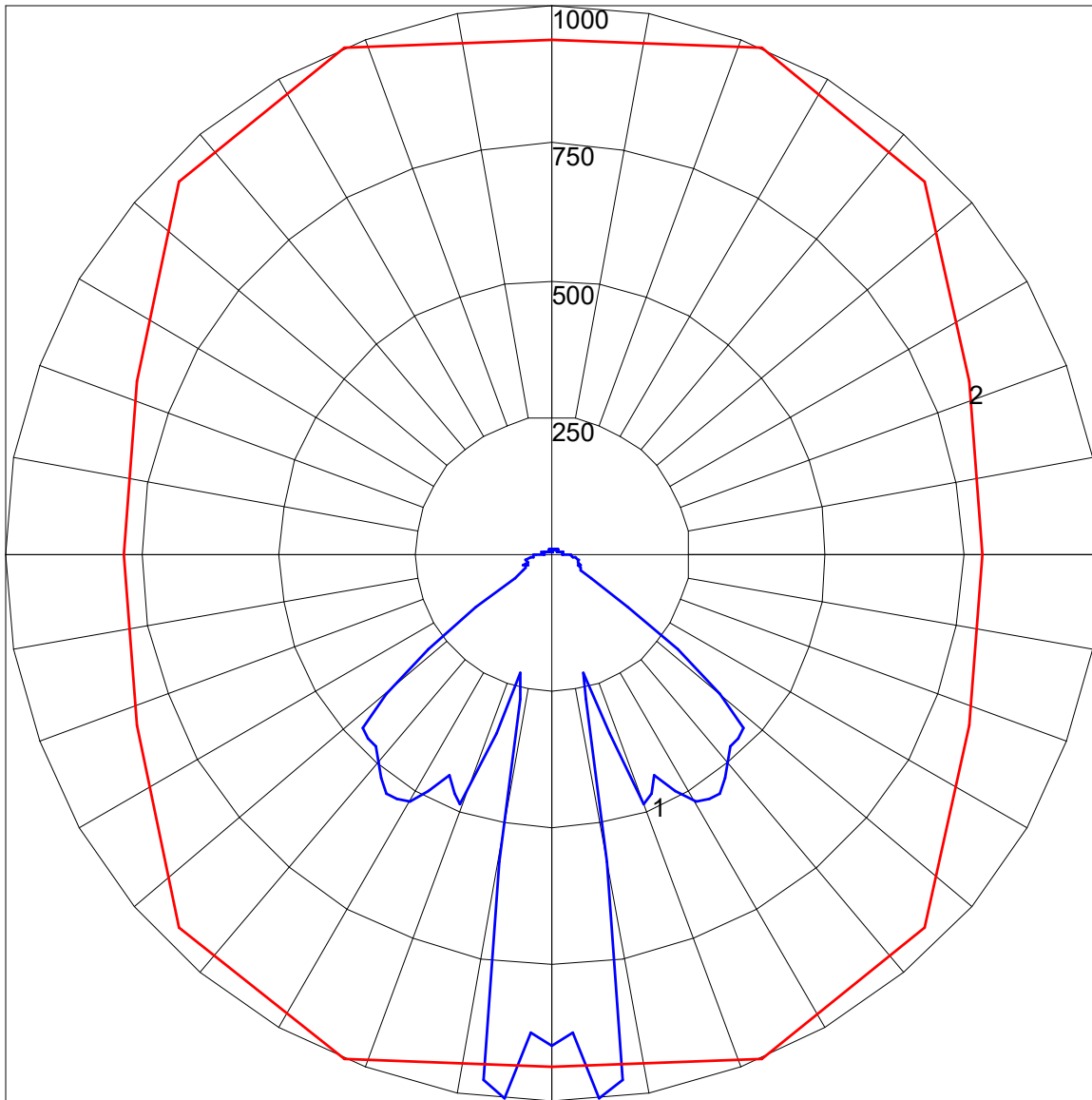
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

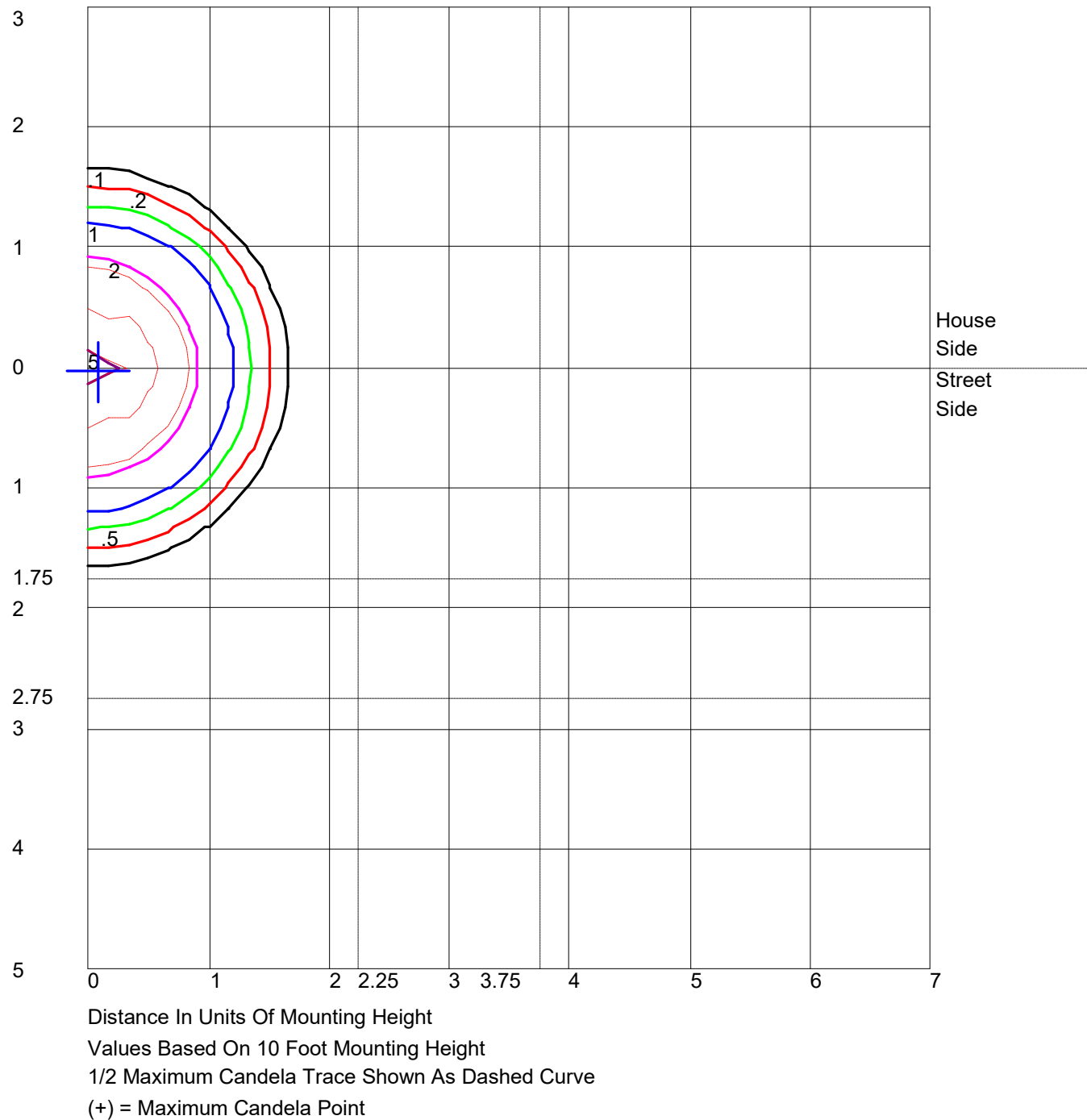
|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 704.8  | 47.5                    |
| Downward House Side  | 704.8  | 47.5                    |
| Downward Total       | 1409.6 | 94.9                    |
| Upward Street Side   | 37.6   | 2.5                     |
| Upward House Side    | 37.6   | 2.5                     |
| Upward Total         | 75.2   | 5.1                     |
| Total Flux           | 1484.8 | 100.0                   |

POLAR GRAPH

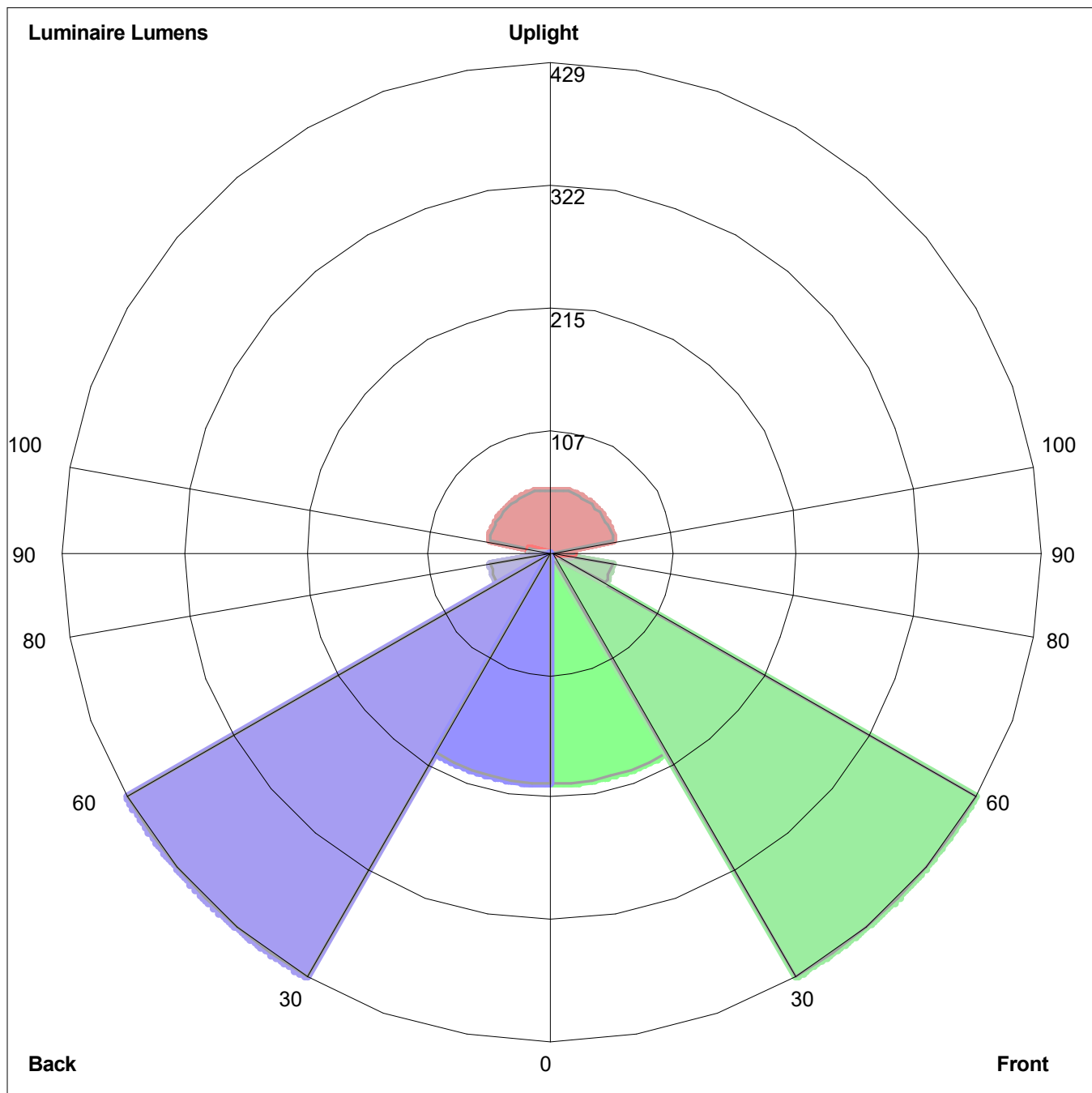


Maximum Candela = 1000 Located At Horizontal Angle = 67.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=202.9, Medium=429.4, High=53.9, Very High=18.6  
Back: Low=202.9, Medium=429.4, High=53.9, Very High=18.6  
Uplight: Low=20.0, High=55.1

BUG Rating : B1-U3-G1