

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P386208

Luminaire Tested: **GWC-SA1D-750-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1D-750-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6005 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

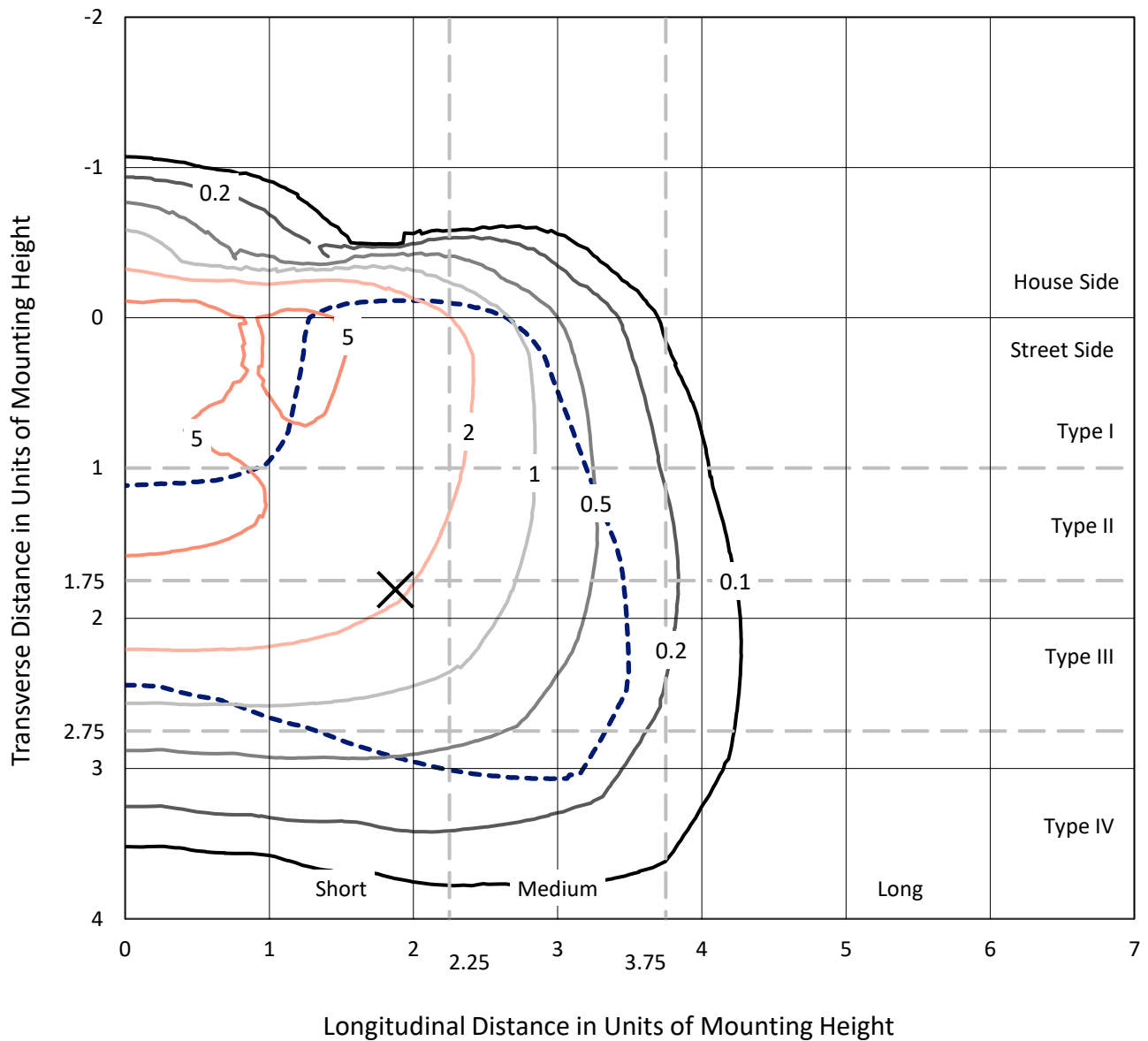
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

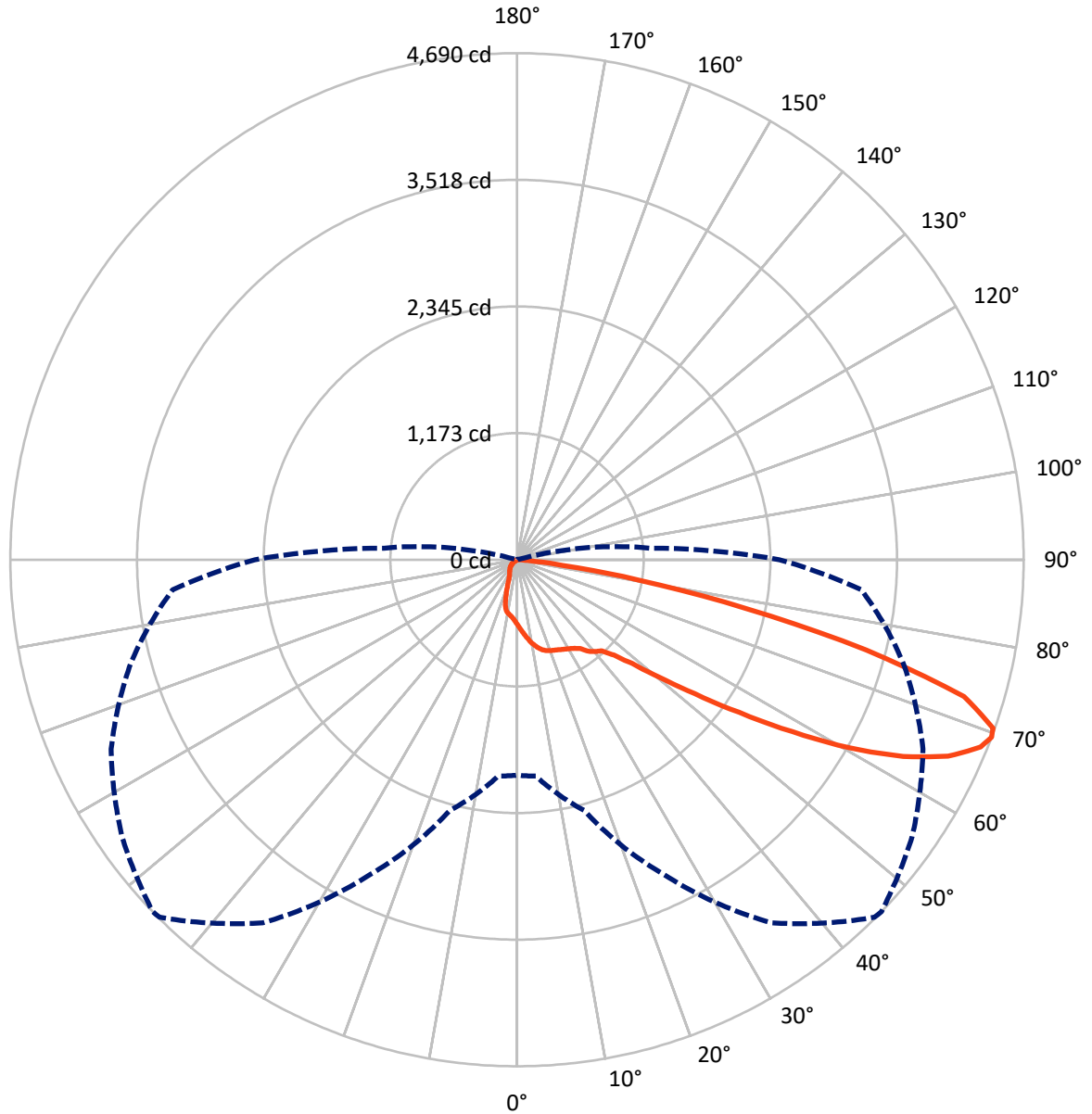
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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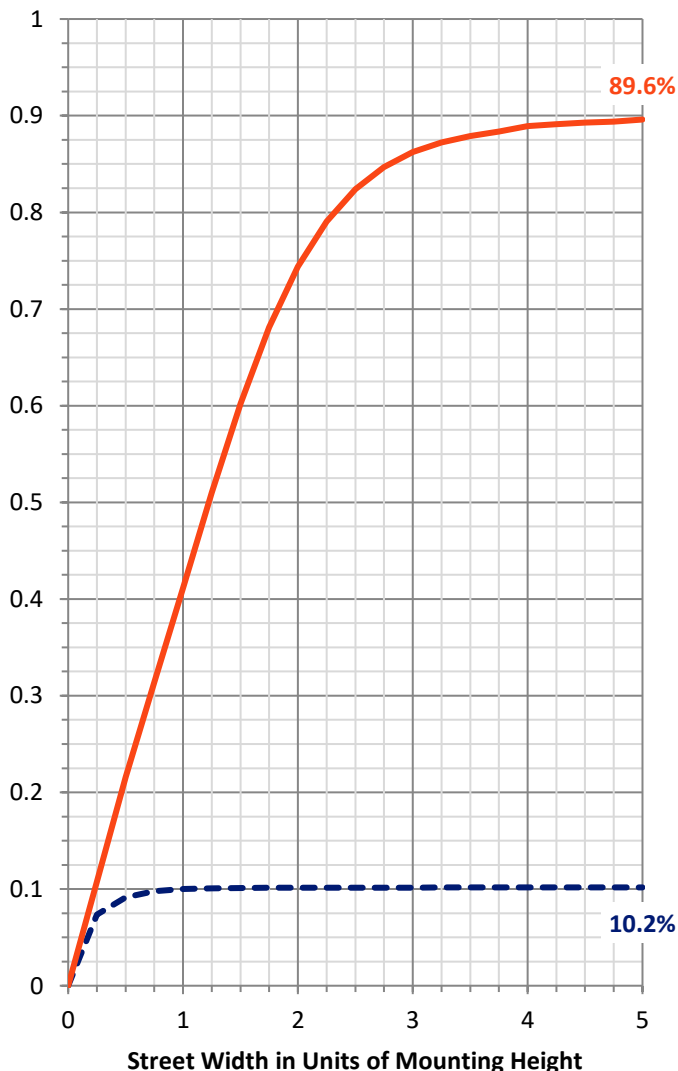
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 616.3    | 0.0    | 616.3  |
|                    | % Fixture | 10.3     | 0.0    | 10.3   |
| <b>Street Side</b> | Lumens    | 5388.7   | 0.0    | 5388.7 |
|                    | % Fixture | 89.7     | 0.0    | 89.7   |
| <b>Total</b>       | Lumens    | 6005.0   | 0.0    | 6005.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.9   | 1.0       |
| 10°-20°   | 181.7  | 3.0       |
| 20°-30°   | 285.7  | 4.8       |
| 30°-40°   | 409.7  | 6.8       |
| 40°-50°   | 708.2  | 11.8      |
| 50°-60°   | 1399.1 | 23.3      |
| 60°-70°   | 1955.3 | 32.6      |
| 70°-80°   | 944.6  | 15.7      |
| 80°-90°   | 60.7   | 1.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 6005.0 | 100.0     |
| 0°-180°   | 6005.0 | 100.0     |

**Coefficient of Utilization**



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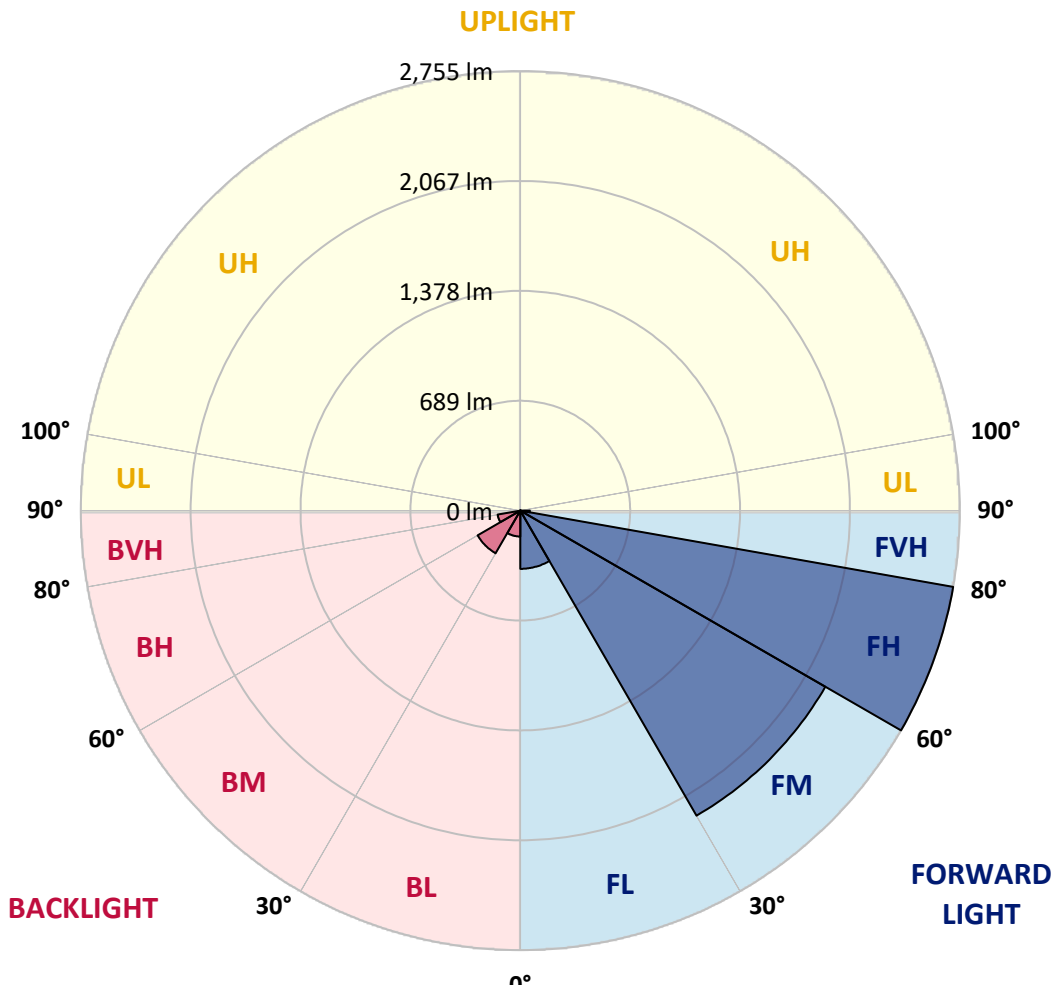
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 364.9  | 6.1       |                         |      |         |
| FM (30°-60°)   | 2208.2 | 36.8      |                         |      |         |
| FH (60°-80°)   | 2755.5 | 45.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 60.2   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 162.4  | 2.7       | B1/500                  |      |         |
| BM (30°-60°)   | 308.8  | 5.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 144.5  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.5    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 601.7  | 601.7  | 601.7  | 601.7  | 601.7  | 601.7  | 601.7  | 601.7  | 601.7  | 601.7  | 601.7  |
| 2.5°  | 668.4  | 667.6  | 663.6  | 661.9  | 652.4  | 646.7  | 644.5  | 637.4  | 627.3  | 617.2  | 605.9  |
| 5°    | 744.4  | 744.1  | 736.8  | 729.8  | 711.8  | 694.9  | 691.8  | 675.4  | 652.6  | 631.2  | 609.8  |
| 7.5°  | 822.1  | 818.5  | 811.2  | 797.6  | 771.5  | 744.4  | 741.9  | 718.8  | 686.4  | 655.5  | 624.8  |
| 10°   | 888.0  | 885.8  | 876.2  | 855.6  | 825.0  | 794.3  | 791.2  | 762.7  | 726.1  | 688.1  | 649.0  |
| 12.5° | 939.3  | 937.6  | 924.9  | 899.3  | 866.6  | 834.8  | 830.6  | 805.2  | 766.1  | 723.6  | 677.4  |
| 15°   | 970.5  | 969.7  | 954.2  | 926.9  | 894.8  | 867.2  | 863.5  | 841.3  | 805.0  | 760.5  | 708.4  |
| 17.5° | 977.8  | 978.1  | 962.1  | 934.5  | 908.0  | 888.3  | 885.5  | 868.6  | 838.2  | 794.0  | 739.4  |
| 20°   | 961.5  | 964.9  | 950.5  | 926.6  | 910.3  | 899.8  | 897.6  | 887.5  | 861.8  | 820.2  | 764.1  |
| 22.5° | 938.4  | 940.1  | 930.3  | 914.2  | 907.4  | 909.4  | 908.3  | 902.7  | 881.0  | 842.7  | 788.6  |
| 25°   | 924.3  | 924.3  | 918.4  | 904.9  | 909.4  | 921.5  | 921.8  | 920.7  | 903.5  | 870.3  | 818.5  |
| 27.5° | 923.8  | 922.1  | 915.3  | 905.2  | 917.6  | 936.2  | 937.3  | 944.9  | 934.2  | 903.8  | 855.6  |
| 30°   | 946.3  | 944.3  | 930.0  | 916.7  | 932.5  | 952.5  | 955.3  | 971.9  | 966.6  | 940.1  | 897.0  |
| 32.5° | 998.9  | 991.9  | 960.1  | 938.4  | 950.2  | 974.2  | 977.8  | 1004.3 | 1012.7 | 984.9  | 937.0  |
| 35°   | 1071.0 | 1048.8 | 1002.9 | 979.5  | 980.6  | 1005.7 | 1009.1 | 1047.9 | 1073.0 | 1026.0 | 968.0  |
| 37.5° | 1170.4 | 1159.4 | 1084.8 | 1022.3 | 1027.4 | 1065.4 | 1075.3 | 1117.5 | 1110.4 | 1048.5 | 1003.2 |
| 40°   | 1388.3 | 1371.2 | 1291.8 | 1142.3 | 1072.2 | 1113.8 | 1116.9 | 1139.4 | 1140.0 | 1099.5 | 1076.4 |
| 42.5° | 1685.1 | 1678.1 | 1594.4 | 1359.9 | 1160.3 | 1146.2 | 1151.8 | 1189.8 | 1232.4 | 1207.0 | 1205.9 |
| 45°   | 2013.7 | 2010.0 | 1921.3 | 1648.8 | 1338.5 | 1252.3 | 1259.4 | 1310.3 | 1391.7 | 1397.3 | 1433.1 |
| 47.5° | 2278.0 | 2276.4 | 2225.4 | 1971.2 | 1611.3 | 1432.3 | 1434.5 | 1488.6 | 1631.6 | 1702.3 | 1759.4 |
| 50°   | 2519.1 | 2527.2 | 2487.0 | 2320.0 | 1983.0 | 1714.1 | 1708.7 | 1744.8 | 1974.5 | 2090.2 | 2161.2 |
| 52.5° | 2854.1 | 2865.6 | 2752.7 | 2645.5 | 2372.9 | 2063.8 | 2059.6 | 2097.3 | 2386.7 | 2473.4 | 2486.1 |
| 55°   | 3150.0 | 3130.3 | 3041.1 | 3010.1 | 2848.5 | 2495.7 | 2494.6 | 2527.8 | 2785.4 | 2822.3 | 2845.7 |
| 57.5° | 3280.7 | 3273.1 | 3316.1 | 3387.1 | 3346.5 | 3006.1 | 3003.6 | 2978.3 | 3142.1 | 3146.1 | 3217.9 |
| 60°   | 3363.1 | 3372.4 | 3504.5 | 3723.3 | 3824.3 | 3555.5 | 3539.1 | 3384.5 | 3482.8 | 3474.1 | 3550.9 |
| 62.5° | 3301.2 | 3319.5 | 3557.1 | 3921.8 | 4181.9 | 4034.9 | 4011.8 | 3756.8 | 3773.9 | 3743.8 | 3815.3 |
| 65°   | 2972.4 | 3000.8 | 3390.2 | 3884.3 | 4359.3 | 4409.7 | 4386.3 | 4085.3 | 4005.1 | 3955.5 | 3915.8 |
| 67.5° | 2413.5 | 2430.4 | 2836.9 | 3558.5 | 4279.3 | 4633.2 | 4628.4 | 4373.4 | 4179.7 | 3919.8 | 3611.8 |
| 69°   | 1994.5 | 2011.1 | 2402.5 | 3215.6 | 4103.4 | 4681.1 | 4690.4 | 4465.7 | 4146.4 | 3702.4 | 3200.1 |
| 70°   | 1689.3 | 1707.1 | 2071.7 | 2921.7 | 3899.2 | 4658.9 | 4675.5 | 4457.0 | 4051.3 | 3450.7 | 2838.9 |
| 72.5° | 886.0  | 901.3  | 1275.4 | 2012.8 | 3178.7 | 4277.9 | 4328.3 | 4080.3 | 3434.1 | 2506.1 | 1678.6 |
| 75°   | 278.5  | 287.2  | 498.1  | 1052.2 | 2176.4 | 3326.3 | 3337.8 | 3200.7 | 2438.5 | 1378.5 | 699.1  |
| 77.5° | 106.1  | 103.6  | 165.8  | 387.7  | 1100.3 | 2094.5 | 2165.1 | 2000.2 | 1279.7 | 487.4  | 161.3  |
| 80°   | 57.2   | 57.4   | 86.2   | 160.5  | 470.8  | 1076.4 | 1136.1 | 969.4  | 454.7  | 152.0  | 37.2   |
| 82.5° | 24.8   | 25.9   | 48.4   | 85.0   | 216.2  | 397.0  | 426.8  | 355.3  | 173.7  | 102.2  | 13.8   |
| 85°   | 5.3    | 5.9    | 23.4   | 46.2   | 88.1   | 111.5  | 116.8  | 115.2  | 110.7  | 79.4   | 5.3    |
| 87.5° | 0.0    | 0.0    | 10.4   | 16.6   | 22.2   | 25.3   | 22.2   | 29.0   | 61.1   | 53.5   | 2.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 601.7  | 601.7  | 601.7 | 601.7 | 601.7 | 601.7 | 601.7 | 601.7 | 601.7 | 601.7 | 601.7 |
| 2.5°  | 602.2  | 597.2  | 588.4 | 578.9 | 572.1 | 565.1 | 559.4 | 556.9 | 554.1 | 552.1 | 554.7 |
| 5°    | 601.1  | 591.3  | 574.4 | 558.0 | 546.2 | 536.6 | 528.8 | 525.7 | 522.6 | 520.3 | 520.0 |
| 7.5°  | 611.0  | 597.2  | 571.3 | 547.3 | 529.0 | 516.1 | 505.4 | 500.9 | 497.2 | 495.5 | 494.1 |
| 10°   | 629.8  | 612.1  | 577.5 | 546.2 | 522.6 | 500.6 | 477.5 | 459.8 | 448.2 | 442.9 | 440.9 |
| 12.5° | 654.3  | 632.1  | 589.3 | 552.1 | 517.8 | 475.5 | 426.6 | 384.3 | 357.0 | 348.0 | 342.6 |
| 15°   | 683.0  | 655.5  | 604.8 | 559.7 | 500.3 | 423.2 | 340.1 | 284.9 | 259.6 | 254.5 | 248.9 |
| 17.5° | 710.6  | 680.2  | 623.4 | 561.1 | 462.0 | 338.1 | 249.2 | 211.7 | 201.9 | 205.3 | 206.1 |
| 20°   | 734.9  | 704.7  | 641.7 | 548.7 | 392.5 | 253.7 | 192.9 | 183.6 | 187.2 | 193.7 | 194.8 |
| 22.5° | 759.3  | 728.4  | 658.6 | 516.1 | 303.5 | 192.6 | 173.7 | 176.0 | 179.6 | 186.1 | 187.2 |
| 25°   | 789.2  | 757.1  | 674.3 | 456.1 | 227.8 | 163.9 | 165.0 | 168.4 | 172.0 | 177.9 | 178.5 |
| 27.5° | 823.5  | 793.4  | 684.7 | 378.1 | 168.9 | 150.6 | 154.3 | 159.4 | 163.0 | 168.7 | 169.8 |
| 30°   | 869.2  | 841.3  | 688.1 | 297.3 | 141.6 | 138.8 | 140.5 | 146.7 | 152.0 | 157.1 | 158.0 |
| 32.5° | 911.9  | 888.6  | 676.9 | 224.4 | 131.2 | 127.8 | 127.8 | 131.5 | 137.7 | 142.5 | 143.6 |
| 35°   | 951.4  | 936.2  | 640.8 | 164.1 | 123.3 | 117.7 | 114.9 | 114.9 | 118.8 | 122.8 | 123.9 |
| 37.5° | 1003.5 | 1002.9 | 582.5 | 130.9 | 115.7 | 109.2 | 103.3 | 98.8  | 97.4  | 98.3  | 98.8  |
| 40°   | 1092.7 | 1093.6 | 506.5 | 117.4 | 109.2 | 100.5 | 91.5  | 83.3  | 75.7  | 73.2  | 72.9  |
| 42.5° | 1232.1 | 1219.4 | 426.8 | 110.9 | 103.6 | 91.5  | 78.0  | 67.0  | 55.2  | 51.5  | 51.2  |
| 45°   | 1453.4 | 1378.2 | 342.4 | 105.0 | 97.7  | 81.4  | 64.5  | 49.6  | 40.0  | 37.2  | 37.2  |
| 47.5° | 1775.8 | 1586.8 | 265.2 | 98.5  | 89.8  | 69.8  | 48.7  | 35.8  | 29.3  | 27.9  | 28.2  |
| 50°   | 2109.1 | 1791.2 | 203.3 | 90.4  | 80.2  | 57.7  | 36.0  | 25.9  | 22.2  | 22.2  | 22.5  |
| 52.5° | 2404.7 | 1941.0 | 158.5 | 81.7  | 68.4  | 45.3  | 27.3  | 20.3  | 18.6  | 18.3  | 18.6  |
| 55°   | 2681.5 | 2037.6 | 121.3 | 71.5  | 54.3  | 33.8  | 20.8  | 16.6  | 15.5  | 14.9  | 14.6  |
| 57.5° | 2948.4 | 2085.5 | 90.9  | 57.7  | 39.4  | 24.5  | 16.6  | 14.1  | 13.0  | 12.1  | 11.8  |
| 60°   | 3126.1 | 2046.6 | 62.5  | 42.5  | 27.3  | 17.7  | 13.8  | 12.1  | 10.7  | 9.9   | 9.6   |
| 62.5° | 3226.3 | 1940.5 | 40.3  | 30.7  | 19.4  | 13.2  | 11.0  | 10.1  | 8.2   | 7.3   | 7.3   |
| 65°   | 3185.8 | 1765.3 | 28.2  | 22.0  | 14.1  | 9.9   | 8.2   | 8.2   | 5.9   | 4.8   | 4.5   |
| 67.5° | 2823.1 | 1491.4 | 21.4  | 16.3  | 10.1  | 7.3   | 6.2   | 7.0   | 3.7   | 2.3   | 2.3   |
| 69°   | 2429.0 | 1236.0 | 18.3  | 13.5  | 8.4   | 5.9   | 5.3   | 6.5   | 2.5   | 1.7   | 1.4   |
| 70°   | 2111.1 | 1066.2 | 16.6  | 11.8  | 7.0   | 5.1   | 4.8   | 6.2   | 2.5   | 1.4   | 1.1   |
| 72.5° | 1263.0 | 594.6  | 12.7  | 8.4   | 4.5   | 3.9   | 3.9   | 7.0   | 2.5   | 1.4   | 1.1   |
| 75°   | 510.5  | 209.5  | 9.3   | 5.9   | 3.4   | 3.4   | 4.8   | 9.0   | 2.3   | 1.1   | 0.8   |
| 77.5° | 115.7  | 45.9   | 5.3   | 3.7   | 2.3   | 3.4   | 5.6   | 7.0   | 1.4   | 0.6   | 0.0   |
| 80°   | 28.2   | 11.3   | 3.4   | 2.3   | 1.4   | 2.5   | 4.2   | 3.9   | 0.3   | 0.0   | 0.0   |
| 82.5° | 9.3    | 3.9    | 1.4   | 1.1   | 0.3   | 0.8   | 2.0   | 1.1   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.9    | 2.3    | 0.6   | 0.3   | 0.0   | 0.0   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.5    | 0.8    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

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