

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: P385900

Luminaire Tested: **GWC-SA1C-727-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385900  
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-SA1C-727-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 4580 lumens  
Efficiency: N/A  
Efficacy: 77.6 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

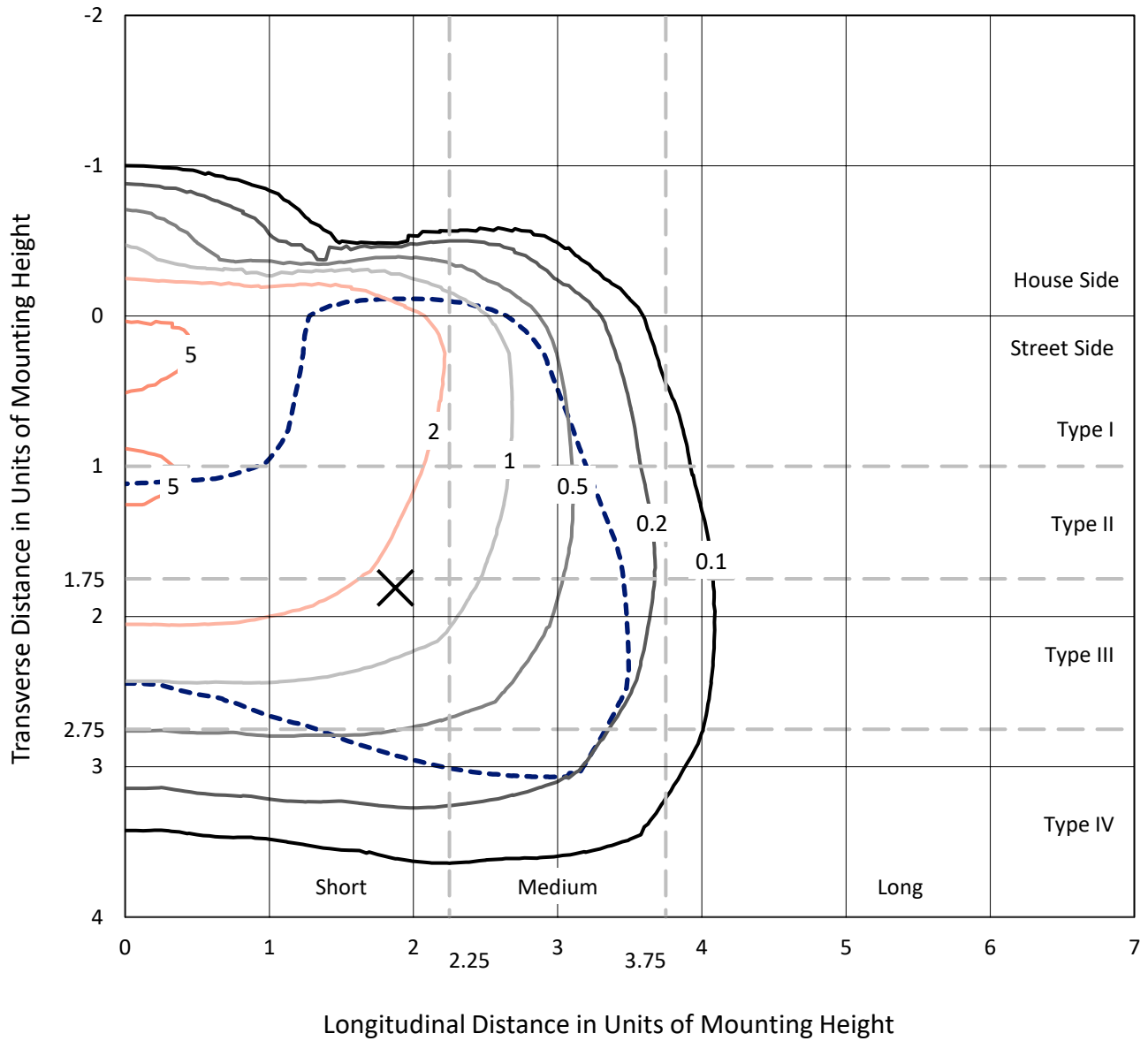
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

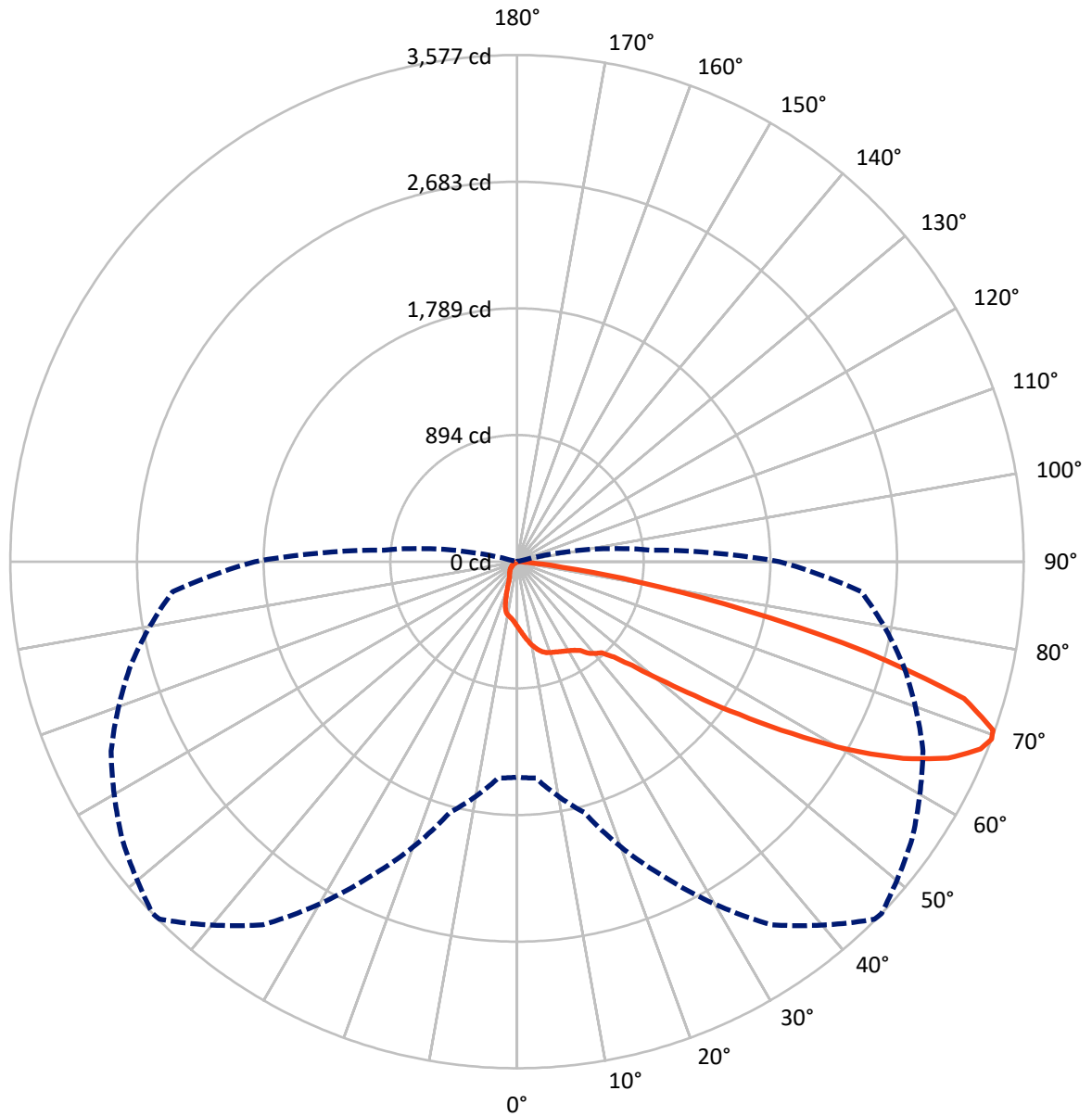
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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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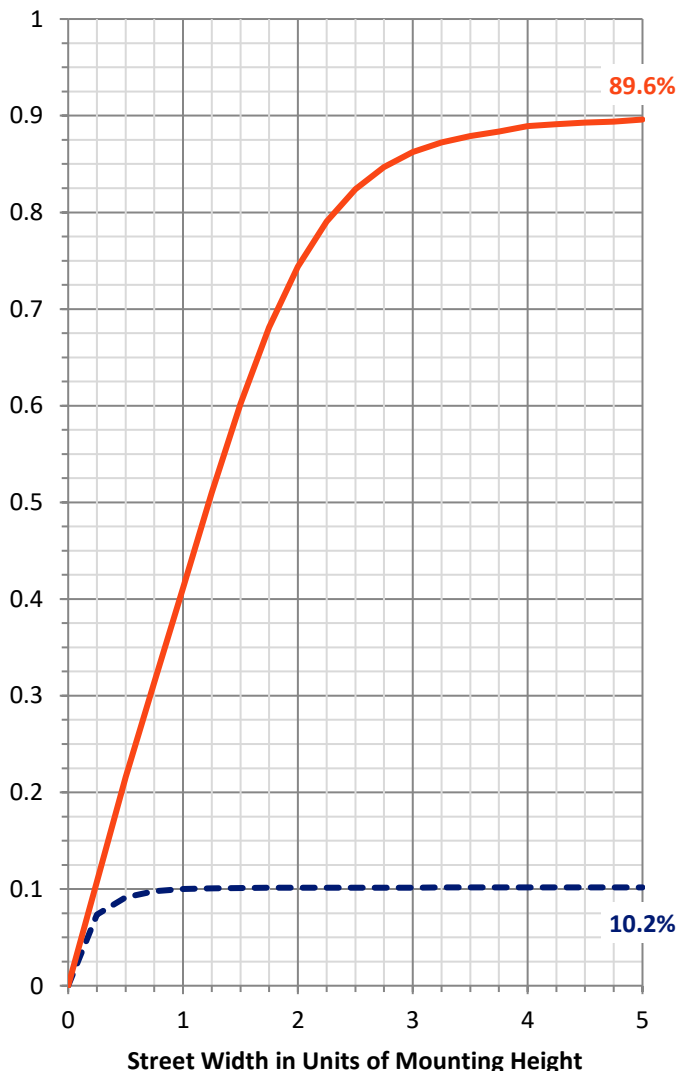
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 470.0    | 0.0    | 470.0  |
|                    | % Fixture | 10.3     | 0.0    | 10.3   |
| <b>Street Side</b> | Lumens    | 4110.0   | 0.0    | 4110.0 |
|                    | % Fixture | 89.7     | 0.0    | 89.7   |
| <b>Total</b>       | Lumens    | 4580.0   | 0.0    | 4580.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.7   | 1.0       |
| 10°-20°   | 138.6  | 3.0       |
| 20°-30°   | 217.9  | 4.8       |
| 30°-40°   | 312.5  | 6.8       |
| 40°-50°   | 540.1  | 11.8      |
| 50°-60°   | 1067.1 | 23.3      |
| 60°-70°   | 1491.3 | 32.6      |
| 70°-80°   | 720.5  | 15.7      |
| 80°-90°   | 46.3   | 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°    | 4580.0 | 100.0     |
| 0°-180°   | 4580.0 | 100.0     |

**Coefficient of Utilization**



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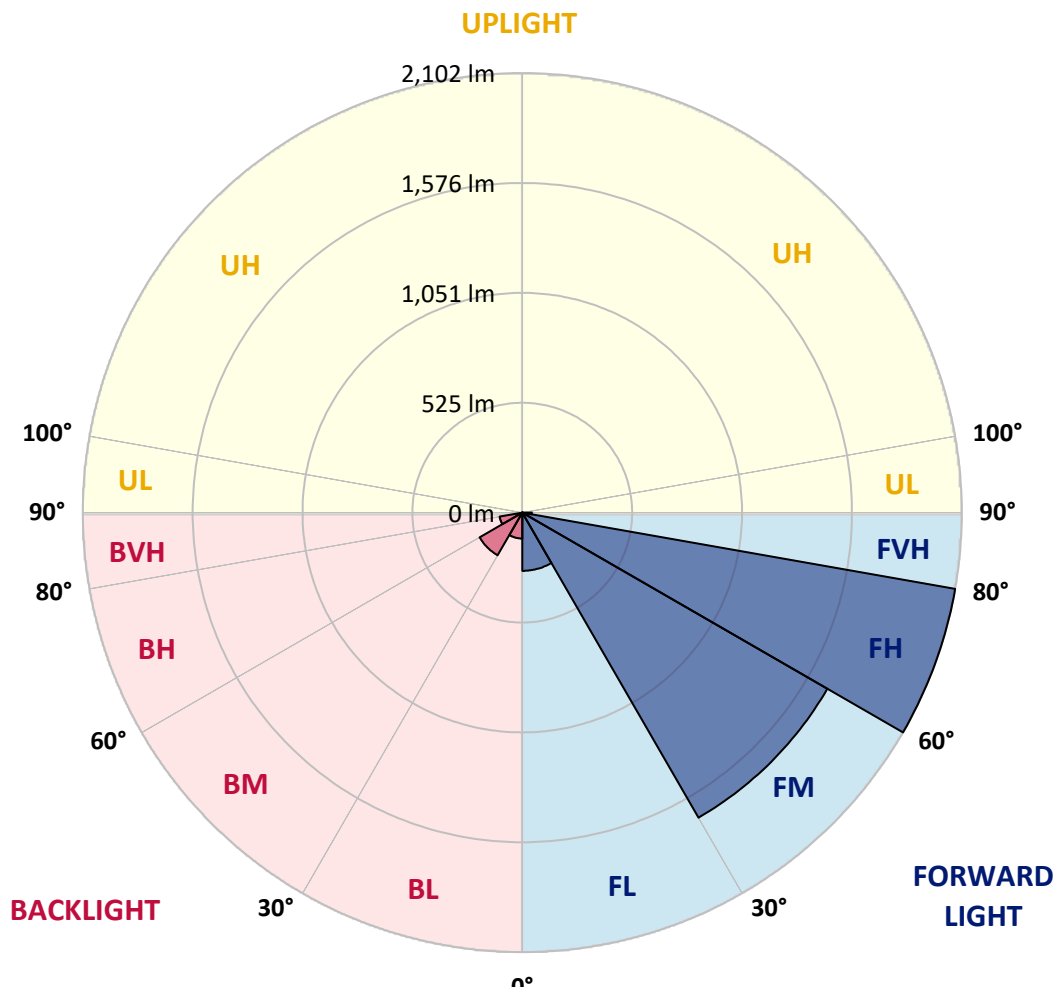
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 278.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 1684.2 | 36.8      |                         |      |         |
| FH (60°-80°)   | 2101.6 | 45.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 45.9   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 123.9  | 2.7       | B1/500                  |      |         |
| BM (30°-60°)   | 235.5  | 5.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 110.2  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.4    | 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°    | 458.9  | 458.9  | 458.9  | 458.9  | 458.9  | 458.9  | 458.9  | 458.9  | 458.9  | 458.9  | 458.9  |
| 2.5°  | 509.8  | 509.1  | 506.1  | 504.9  | 497.6  | 493.3  | 491.5  | 486.2  | 478.4  | 470.7  | 462.1  |
| 5°    | 567.8  | 567.6  | 562.0  | 556.6  | 542.9  | 530.0  | 527.6  | 515.2  | 497.8  | 481.4  | 465.1  |
| 7.5°  | 627.0  | 624.2  | 618.7  | 608.4  | 588.4  | 567.8  | 565.8  | 548.2  | 523.5  | 499.9  | 476.5  |
| 10°   | 677.3  | 675.6  | 668.3  | 652.6  | 629.2  | 605.8  | 603.4  | 581.7  | 553.8  | 524.8  | 495.0  |
| 12.5° | 716.4  | 715.1  | 705.4  | 685.9  | 661.0  | 636.7  | 633.5  | 614.2  | 584.3  | 551.9  | 516.7  |
| 15°   | 740.2  | 739.6  | 727.8  | 706.9  | 682.4  | 661.4  | 658.6  | 641.6  | 613.9  | 580.0  | 540.3  |
| 17.5° | 745.8  | 746.0  | 733.8  | 712.7  | 692.5  | 677.5  | 675.4  | 662.5  | 639.3  | 605.6  | 563.9  |
| 20°   | 733.3  | 735.9  | 725.0  | 706.7  | 694.3  | 686.3  | 684.6  | 676.9  | 657.3  | 625.5  | 582.8  |
| 22.5° | 715.7  | 717.0  | 709.5  | 697.3  | 692.1  | 693.6  | 692.8  | 688.5  | 671.9  | 642.7  | 601.5  |
| 25°   | 705.0  | 705.0  | 700.5  | 690.2  | 693.6  | 702.8  | 703.1  | 702.2  | 689.1  | 663.8  | 624.2  |
| 27.5° | 704.6  | 703.3  | 698.1  | 690.4  | 699.8  | 714.0  | 714.9  | 720.7  | 712.5  | 689.3  | 652.6  |
| 30°   | 721.7  | 720.2  | 709.3  | 699.2  | 711.2  | 726.5  | 728.6  | 741.3  | 737.2  | 717.0  | 684.2  |
| 32.5° | 761.9  | 756.5  | 732.3  | 715.7  | 724.7  | 743.0  | 745.8  | 766.0  | 772.4  | 751.2  | 714.7  |
| 35°   | 816.9  | 799.9  | 764.9  | 747.1  | 747.9  | 767.1  | 769.6  | 799.3  | 818.4  | 782.5  | 738.3  |
| 37.5° | 892.7  | 884.3  | 827.4  | 779.7  | 783.6  | 812.6  | 820.1  | 852.3  | 846.9  | 799.7  | 765.1  |
| 40°   | 1058.9 | 1045.8 | 985.2  | 871.2  | 817.7  | 849.5  | 851.9  | 869.1  | 869.5  | 838.6  | 821.0  |
| 42.5° | 1285.2 | 1279.8 | 1216.1 | 1037.2 | 884.9  | 874.2  | 878.5  | 907.5  | 939.9  | 920.6  | 919.7  |
| 45°   | 1535.8 | 1533.0 | 1465.4 | 1257.5 | 1020.9 | 955.2  | 960.5  | 999.4  | 1061.5 | 1065.8 | 1093.0 |
| 47.5° | 1737.5 | 1736.2 | 1697.3 | 1503.4 | 1229.0 | 1092.4 | 1094.1 | 1135.3 | 1244.4 | 1298.3 | 1341.9 |
| 50°   | 1921.3 | 1927.5 | 1896.8 | 1769.5 | 1512.4 | 1307.3 | 1303.3 | 1330.7 | 1506.0 | 1594.2 | 1648.3 |
| 52.5° | 2176.8 | 2185.6 | 2099.5 | 2017.7 | 1809.8 | 1574.0 | 1570.8 | 1599.6 | 1820.3 | 1886.5 | 1896.2 |
| 55°   | 2402.5 | 2387.5 | 2319.4 | 2295.8 | 2172.5 | 1903.5 | 1902.6 | 1927.9 | 2124.4 | 2152.6 | 2170.4 |
| 57.5° | 2502.1 | 2496.3 | 2529.2 | 2583.3 | 2552.4 | 2292.8 | 2290.8 | 2271.5 | 2396.5 | 2399.5 | 2454.3 |
| 60°   | 2565.1 | 2572.2 | 2672.9 | 2839.7 | 2916.8 | 2711.7 | 2699.3 | 2581.4 | 2656.3 | 2649.7 | 2708.3 |
| 62.5° | 2517.8 | 2531.8 | 2713.0 | 2991.1 | 3189.5 | 3077.4 | 3059.8 | 2865.3 | 2878.4 | 2855.4 | 2909.9 |
| 65°   | 2267.0 | 2288.7 | 2585.7 | 2962.5 | 3324.8 | 3363.3 | 3345.4 | 3115.9 | 3054.7 | 3016.9 | 2986.6 |
| 67.5° | 1840.7 | 1853.6 | 2163.7 | 2714.1 | 3263.8 | 3533.8 | 3530.1 | 3335.6 | 3187.8 | 2989.6 | 2754.7 |
| 69°   | 1521.2 | 1533.9 | 1832.4 | 2452.5 | 3129.6 | 3570.3 | 3577.3 | 3406.0 | 3162.5 | 2823.8 | 2440.7 |
| 70°   | 1288.4 | 1302.0 | 1580.1 | 2228.4 | 2973.9 | 3553.3 | 3566.0 | 3399.3 | 3089.9 | 2631.9 | 2165.2 |
| 72.5° | 675.8  | 687.4  | 972.8  | 1535.2 | 2424.4 | 3262.8 | 3301.2 | 3112.0 | 2619.2 | 1911.4 | 1280.3 |
| 75°   | 212.4  | 219.0  | 379.9  | 802.5  | 1659.9 | 2536.9 | 2545.7 | 2441.2 | 1859.9 | 1051.4 | 533.2  |
| 77.5° | 81.0   | 79.0   | 126.5  | 295.7  | 839.2  | 1597.4 | 1651.3 | 1525.5 | 976.0  | 371.7  | 123.0  |
| 80°   | 43.6   | 43.8   | 65.7   | 122.4  | 359.0  | 821.0  | 866.5  | 739.3  | 346.8  | 116.0  | 28.3   |
| 82.5° | 18.9   | 19.8   | 36.9   | 64.9   | 164.9  | 302.8  | 325.5  | 271.0  | 132.5  | 78.0   | 10.5   |
| 85°   | 4.1    | 4.5    | 17.8   | 35.2   | 67.2   | 85.0   | 89.1   | 87.8   | 84.4   | 60.6   | 4.1    |
| 87.5° | 0.0    | 0.0    | 7.9    | 12.7   | 17.0   | 19.3   | 17.0   | 22.1   | 46.6   | 40.8   | 2.1    |
| 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°    | 458.9  | 458.9  | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 |
| 2.5°  | 459.3  | 455.5  | 448.8 | 441.5 | 436.4 | 431.0 | 426.7 | 424.8 | 422.6 | 421.1 | 423.0 |
| 5°    | 458.5  | 451.0  | 438.1 | 425.6 | 416.6 | 409.3 | 403.3 | 400.9 | 398.6 | 396.8 | 396.6 |
| 7.5°  | 466.0  | 455.5  | 435.7 | 417.5 | 403.5 | 393.6 | 385.5 | 382.0 | 379.2 | 377.9 | 376.9 |
| 10°   | 480.4  | 466.8  | 440.4 | 416.6 | 398.6 | 381.8 | 364.2 | 350.7 | 341.9 | 337.8 | 336.3 |
| 12.5° | 499.1  | 482.1  | 449.5 | 421.1 | 394.9 | 362.7 | 325.3 | 293.1 | 272.3 | 265.4 | 261.3 |
| 15°   | 521.0  | 499.9  | 461.3 | 426.9 | 381.6 | 322.8 | 259.4 | 217.3 | 198.0 | 194.1 | 189.8 |
| 17.5° | 542.0  | 518.8  | 475.4 | 428.0 | 352.4 | 257.9 | 190.0 | 161.5 | 154.0 | 156.5 | 157.2 |
| 20°   | 560.5  | 537.5  | 489.4 | 418.5 | 299.3 | 193.5 | 147.1 | 140.0 | 142.8 | 147.7 | 148.6 |
| 22.5° | 579.2  | 555.5  | 502.3 | 393.6 | 231.5 | 146.9 | 132.5 | 134.2 | 137.0 | 141.9 | 142.8 |
| 25°   | 601.9  | 577.4  | 514.3 | 347.9 | 173.7 | 125.0 | 125.8 | 128.4 | 131.2 | 135.7 | 136.1 |
| 27.5° | 628.1  | 605.1  | 522.2 | 288.4 | 128.8 | 114.9 | 117.7 | 121.5 | 124.3 | 128.6 | 129.5 |
| 30°   | 662.9  | 641.6  | 524.8 | 226.8 | 108.0 | 105.9 | 107.2 | 111.9 | 116.0 | 119.8 | 120.5 |
| 32.5° | 695.5  | 677.7  | 516.2 | 171.1 | 100.1 | 97.5  | 97.5  | 100.3 | 105.0 | 108.7 | 109.5 |
| 35°   | 725.6  | 714.0  | 488.7 | 125.2 | 94.1  | 89.8  | 87.6  | 87.6  | 90.6  | 93.6  | 94.5  |
| 37.5° | 765.3  | 764.9  | 444.3 | 99.9  | 88.3  | 83.3  | 78.8  | 75.4  | 74.3  | 74.9  | 75.4  |
| 40°   | 833.4  | 834.0  | 386.3 | 89.5  | 83.3  | 76.7  | 69.8  | 63.6  | 57.8  | 55.8  | 55.6  |
| 42.5° | 939.7  | 930.0  | 325.5 | 84.6  | 79.0  | 69.8  | 59.5  | 51.1  | 42.1  | 39.3  | 39.1  |
| 45°   | 1108.5 | 1051.2 | 261.1 | 80.1  | 74.5  | 62.1  | 49.2  | 37.8  | 30.5  | 28.3  | 28.3  |
| 47.5° | 1354.4 | 1210.3 | 202.3 | 75.2  | 68.5  | 53.3  | 37.1  | 27.3  | 22.3  | 21.3  | 21.5  |
| 50°   | 1608.6 | 1366.2 | 155.0 | 68.9  | 61.2  | 44.0  | 27.5  | 19.8  | 17.0  | 17.0  | 17.2  |
| 52.5° | 1834.1 | 1480.4 | 120.9 | 62.3  | 52.2  | 34.6  | 20.8  | 15.5  | 14.2  | 14.0  | 14.2  |
| 55°   | 2045.2 | 1554.1 | 92.6  | 54.5  | 41.4  | 25.8  | 15.9  | 12.7  | 11.8  | 11.4  | 11.2  |
| 57.5° | 2248.8 | 1590.6 | 69.4  | 44.0  | 30.1  | 18.7  | 12.7  | 10.7  | 9.9   | 9.2   | 9.0   |
| 60°   | 2384.3 | 1560.9 | 47.7  | 32.4  | 20.8  | 13.5  | 10.5  | 9.2   | 8.2   | 7.5   | 7.3   |
| 62.5° | 2460.7 | 1480.0 | 30.7  | 23.4  | 14.8  | 10.1  | 8.4   | 7.7   | 6.2   | 5.6   | 5.6   |
| 65°   | 2429.8 | 1346.4 | 21.5  | 16.7  | 10.7  | 7.5   | 6.2   | 6.2   | 4.5   | 3.7   | 3.4   |
| 67.5° | 2153.2 | 1137.5 | 16.3  | 12.5  | 7.7   | 5.6   | 4.7   | 5.4   | 2.8   | 1.7   | 1.7   |
| 69°   | 1852.6 | 942.7  | 14.0  | 10.3  | 6.4   | 4.5   | 4.1   | 4.9   | 1.9   | 1.3   | 1.1   |
| 70°   | 1610.1 | 813.2  | 12.7  | 9.0   | 5.4   | 3.9   | 3.7   | 4.7   | 1.9   | 1.1   | 0.9   |
| 72.5° | 963.3  | 453.5  | 9.7   | 6.4   | 3.4   | 3.0   | 3.0   | 5.4   | 1.9   | 1.1   | 0.9   |
| 75°   | 389.3  | 159.8  | 7.1   | 4.5   | 2.6   | 2.6   | 3.7   | 6.9   | 1.7   | 0.9   | 0.6   |
| 77.5° | 88.3   | 35.0   | 4.1   | 2.8   | 1.7   | 2.6   | 4.3   | 5.4   | 1.1   | 0.4   | 0.0   |
| 80°   | 21.5   | 8.6    | 2.6   | 1.7   | 1.1   | 1.9   | 3.2   | 3.0   | 0.2   | 0.0   | 0.0   |
| 82.5° | 7.1    | 3.0    | 1.1   | 0.9   | 0.2   | 0.6   | 1.5   | 0.9   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.0    | 1.7    | 0.4   | 0.2   | 0.0   | 0.0   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.9    | 0.6    | 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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