

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: P385676

Luminaire Tested: **GWC-SA1B-727-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385676  
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-SA1B-727-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 800mA 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: 3699 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

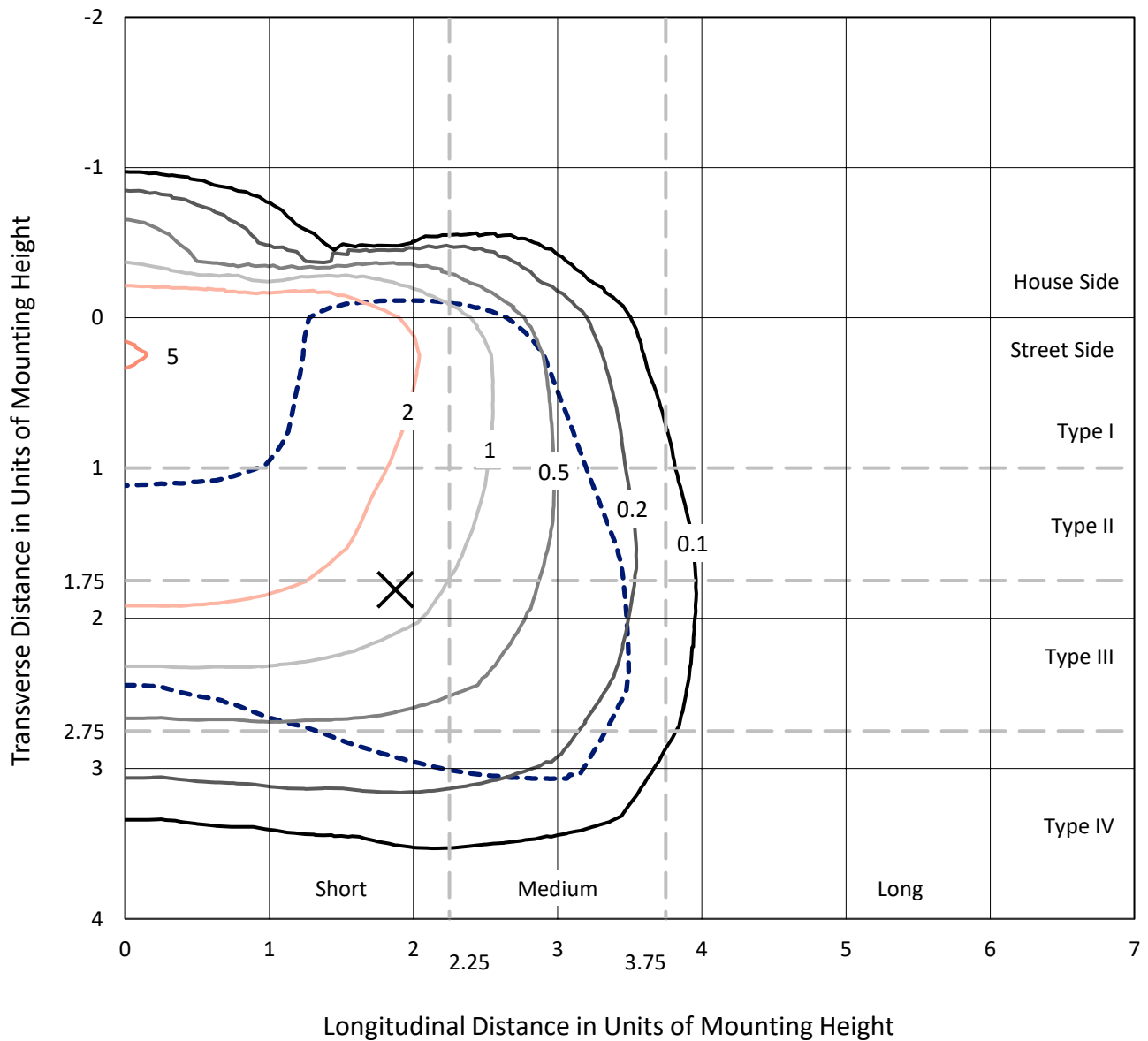
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

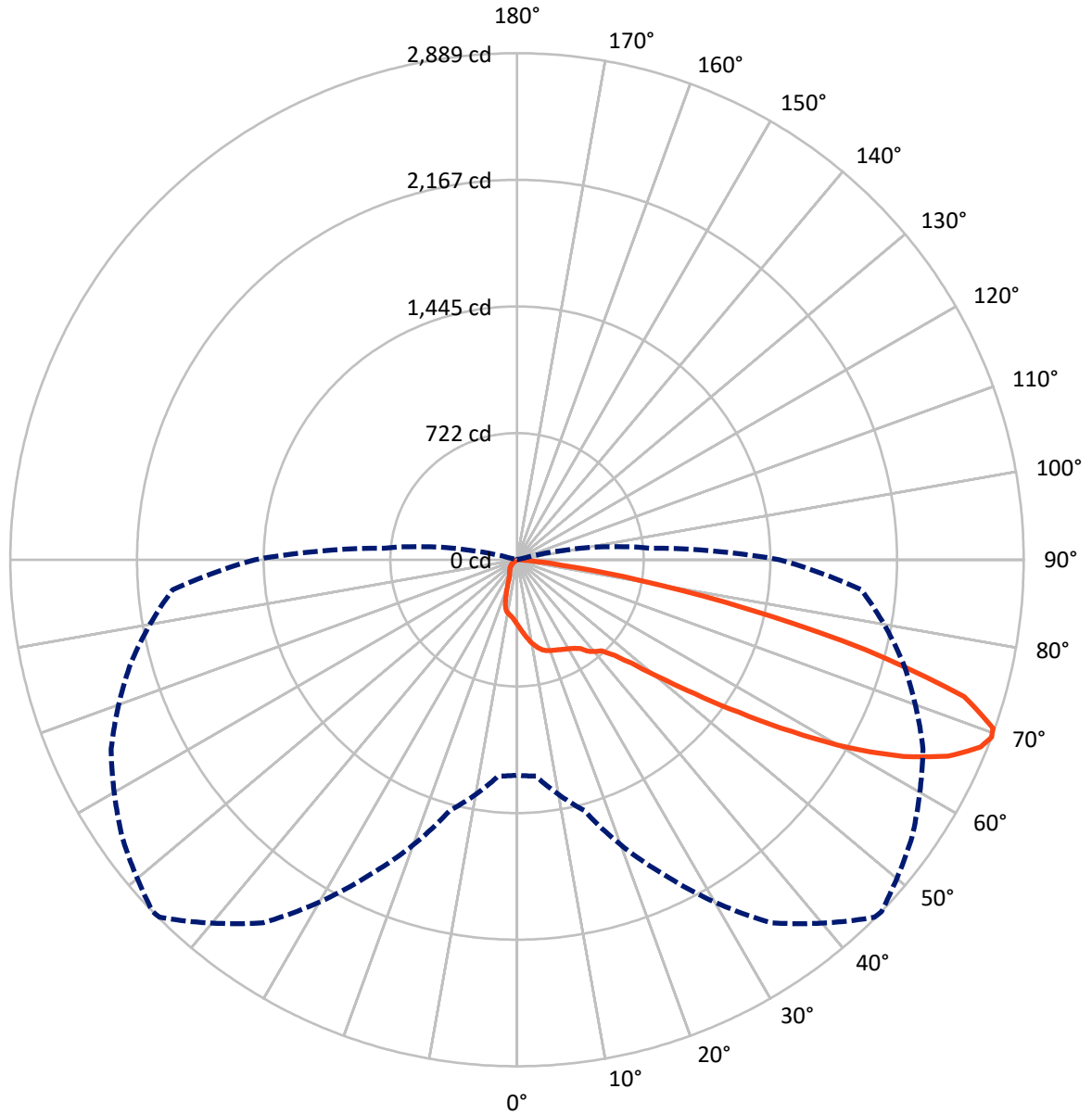
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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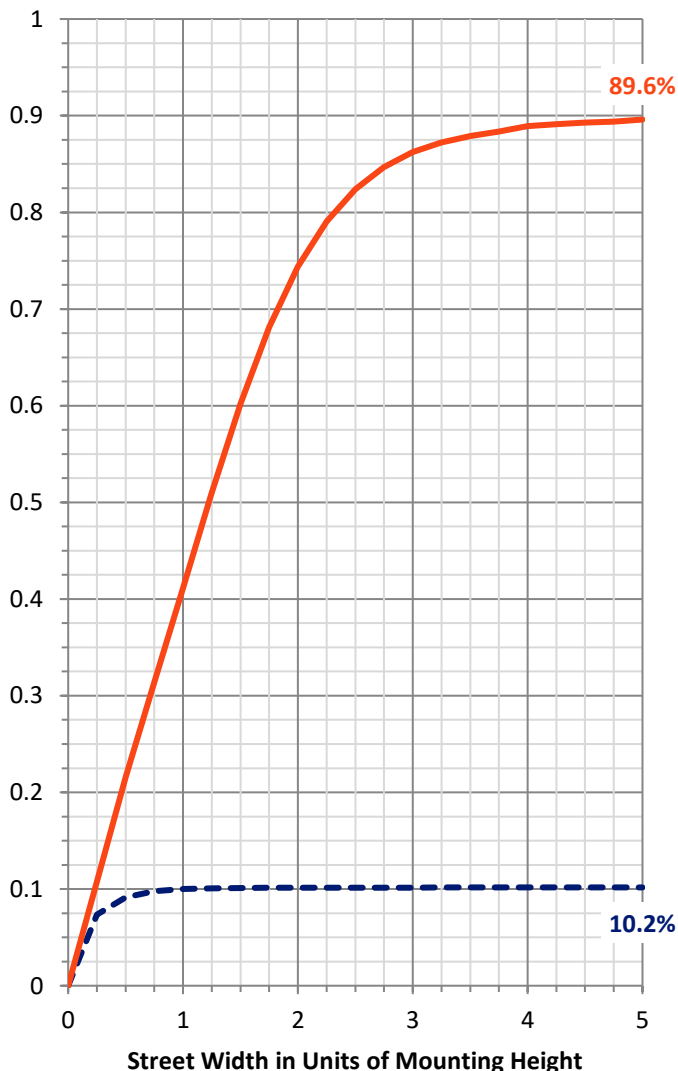
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 379.6    | 0.0    | 379.6  |
|                    | % Fixture | 10.3     | 0.0    | 10.3   |
| <b>Street Side</b> | Lumens    | 3319.4   | 0.0    | 3319.4 |
|                    | % Fixture | 89.7     | 0.0    | 89.7   |
| <b>Total</b>       | Lumens    | 3699.0   | 0.0    | 3699.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.9   | 1.0       |
| 10°-20°   | 111.9  | 3.0       |
| 20°-30°   | 176.0  | 4.8       |
| 30°-40°   | 252.4  | 6.8       |
| 40°-50°   | 436.2  | 11.8      |
| 50°-60°   | 861.8  | 23.3      |
| 60°-70°   | 1204.5 | 32.6      |
| 70°-80°   | 581.9  | 15.7      |
| 80°-90°   | 37.4   | 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°    | 3699.0 | 100.0     |
| 0°-180°   | 3699.0 | 100.0     |

**Coefficient of Utilization**



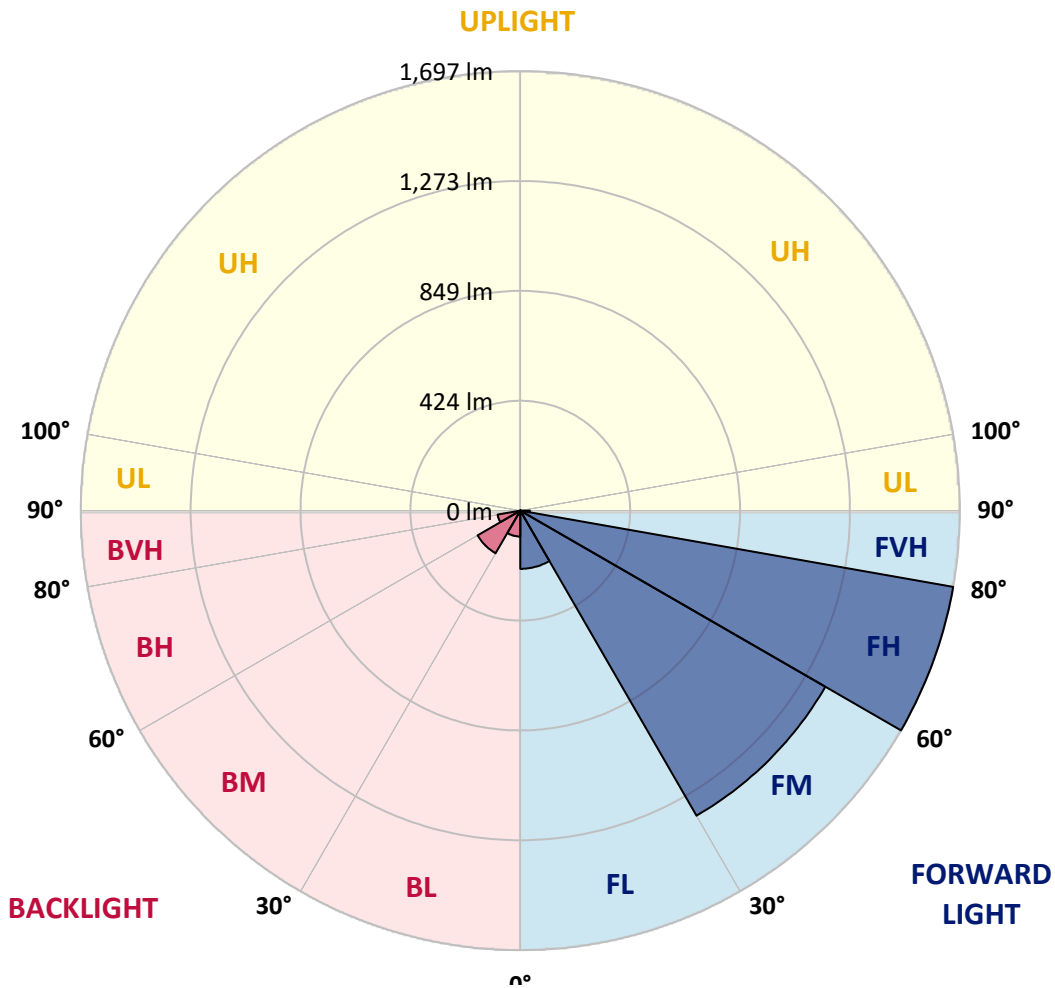
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 224.8  | 6.1       |                         |      |         |
| FM (30°-60°)   | 1360.2 | 36.8      |                         |      |         |
| FH (60°-80°)   | 1697.3 | 45.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 37.1   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 100.1  | 2.7       | B0/110                  |      |         |
| BM (30°-60°)   | 190.2  | 5.1       | B0/220                  |      |         |
| BH (60°-80°)   | 89.0   | 2.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.3    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 370.6  | 370.6  | 370.6  | 370.6  | 370.6  | 370.6  | 370.6  | 370.6  | 370.6  | 370.6  | 370.6  |
| 2.5°  | 411.7  | 411.2  | 408.8  | 407.7  | 401.8  | 398.4  | 397.0  | 392.7  | 386.4  | 380.2  | 373.2  |
| 5°    | 458.6  | 458.4  | 453.9  | 449.5  | 438.4  | 428.0  | 426.1  | 416.1  | 402.0  | 388.8  | 375.7  |
| 7.5°  | 506.4  | 504.2  | 499.7  | 491.3  | 475.2  | 458.6  | 457.0  | 442.8  | 422.8  | 403.8  | 384.8  |
| 10°   | 547.0  | 545.6  | 539.7  | 527.1  | 508.2  | 489.3  | 487.3  | 469.8  | 447.3  | 423.9  | 399.8  |
| 12.5° | 578.6  | 577.5  | 569.7  | 553.9  | 533.8  | 514.2  | 511.6  | 496.0  | 471.9  | 445.7  | 417.3  |
| 15°   | 597.8  | 597.3  | 587.8  | 570.9  | 551.2  | 534.2  | 531.9  | 518.2  | 495.8  | 468.4  | 436.4  |
| 17.5° | 602.3  | 602.5  | 592.6  | 575.6  | 559.3  | 547.2  | 545.4  | 535.0  | 516.3  | 489.1  | 455.4  |
| 20°   | 592.3  | 594.4  | 585.5  | 570.8  | 560.7  | 554.3  | 552.9  | 546.7  | 530.9  | 505.2  | 470.7  |
| 22.5° | 578.1  | 579.1  | 573.0  | 563.1  | 559.0  | 560.2  | 559.5  | 556.0  | 542.7  | 519.1  | 485.8  |
| 25°   | 569.4  | 569.4  | 565.7  | 557.4  | 560.2  | 567.6  | 567.8  | 567.1  | 556.5  | 536.1  | 504.2  |
| 27.5° | 569.0  | 568.0  | 563.8  | 557.6  | 565.2  | 576.7  | 577.4  | 582.0  | 575.5  | 556.7  | 527.1  |
| 30°   | 582.9  | 581.7  | 572.8  | 564.7  | 574.4  | 586.7  | 588.5  | 598.7  | 595.4  | 579.1  | 552.6  |
| 32.5° | 615.3  | 611.0  | 591.4  | 578.1  | 585.3  | 600.1  | 602.3  | 618.6  | 623.8  | 606.7  | 577.2  |
| 35°   | 659.7  | 646.0  | 617.8  | 603.4  | 604.1  | 619.5  | 621.6  | 645.5  | 661.0  | 632.0  | 596.3  |
| 37.5° | 721.0  | 714.2  | 668.2  | 629.7  | 632.9  | 656.3  | 662.3  | 688.4  | 684.0  | 645.9  | 617.9  |
| 40°   | 855.2  | 844.6  | 795.7  | 703.6  | 660.4  | 686.1  | 688.0  | 701.9  | 702.2  | 677.3  | 663.0  |
| 42.5° | 1038.0 | 1033.7 | 982.2  | 837.7  | 714.7  | 706.0  | 709.5  | 732.9  | 759.1  | 743.5  | 742.8  |
| 45°   | 1240.4 | 1238.1 | 1183.5 | 1015.6 | 824.5  | 771.4  | 775.8  | 807.2  | 857.3  | 860.7  | 882.8  |
| 47.5° | 1403.2 | 1402.2 | 1370.8 | 1214.2 | 992.6  | 882.3  | 883.6  | 916.9  | 1005.0 | 1048.6 | 1083.8 |
| 50°   | 1551.7 | 1556.7 | 1531.9 | 1429.1 | 1221.5 | 1055.9 | 1052.6 | 1074.8 | 1216.3 | 1287.6 | 1331.3 |
| 52.5° | 1758.1 | 1765.2 | 1695.7 | 1629.6 | 1461.7 | 1271.3 | 1268.7 | 1291.9 | 1470.2 | 1523.6 | 1531.4 |
| 55°   | 1940.4 | 1928.2 | 1873.2 | 1854.2 | 1754.6 | 1537.3 | 1536.6 | 1557.1 | 1715.8 | 1738.5 | 1752.9 |
| 57.5° | 2020.8 | 2016.2 | 2042.7 | 2086.4 | 2061.4 | 1851.7 | 1850.2 | 1834.6 | 1935.5 | 1937.9 | 1982.2 |
| 60°   | 2071.7 | 2077.4 | 2158.7 | 2293.5 | 2355.7 | 2190.1 | 2180.1 | 2084.8 | 2145.4 | 2140.0 | 2187.3 |
| 62.5° | 2033.5 | 2044.8 | 2191.2 | 2415.7 | 2576.0 | 2485.5 | 2471.2 | 2314.1 | 2324.7 | 2306.1 | 2350.2 |
| 65°   | 1830.9 | 1848.4 | 2088.3 | 2392.7 | 2685.3 | 2716.3 | 2701.9 | 2516.5 | 2467.1 | 2436.6 | 2412.1 |
| 67.5° | 1486.7 | 1497.1 | 1747.5 | 2192.0 | 2636.0 | 2854.0 | 2851.1 | 2693.9 | 2574.6 | 2414.5 | 2224.8 |
| 69°   | 1228.6 | 1238.8 | 1479.9 | 1980.8 | 2527.6 | 2883.5 | 2889.2 | 2750.8 | 2554.1 | 2280.6 | 1971.2 |
| 70°   | 1040.6 | 1051.5 | 1276.1 | 1799.7 | 2401.9 | 2869.8 | 2880.0 | 2745.4 | 2495.5 | 2125.6 | 1748.7 |
| 72.5° | 545.8  | 555.2  | 785.7  | 1239.9 | 1958.1 | 2635.1 | 2666.2 | 2513.4 | 2115.4 | 1543.7 | 1034.0 |
| 75°   | 171.5  | 176.9  | 306.8  | 648.1  | 1340.6 | 2048.9 | 2056.0 | 1971.6 | 1502.1 | 849.1  | 430.6  |
| 77.5° | 65.4   | 63.8   | 102.2  | 238.8  | 677.8  | 1290.2 | 1333.7 | 1232.1 | 788.3  | 300.2  | 99.4   |
| 80°   | 35.2   | 35.4   | 53.1   | 98.9   | 290.0  | 663.0  | 699.8  | 597.1  | 280.1  | 93.7   | 22.9   |
| 82.5° | 15.3   | 16.0   | 29.8   | 52.4   | 133.2  | 244.5  | 262.9  | 218.9  | 107.0  | 63.0   | 8.5    |
| 85°   | 3.3    | 3.6    | 14.4   | 28.4   | 54.3   | 68.7   | 72.0   | 70.9   | 68.2   | 48.9   | 3.3    |
| 87.5° | 0.0    | 0.0    | 6.4    | 10.2   | 13.7   | 15.6   | 13.7   | 17.9   | 37.6   | 33.0   | 1.7    |
| 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°    | 370.6  | 370.6  | 370.6 | 370.6 | 370.6 | 370.6 | 370.6 | 370.6 | 370.6 | 370.6 | 370.6 |
| 2.5°  | 371.0  | 367.9  | 362.5 | 356.6 | 352.4 | 348.1 | 344.6 | 343.1 | 341.3 | 340.1 | 341.7 |
| 5°    | 370.3  | 364.2  | 353.8 | 343.7 | 336.5 | 330.6 | 325.7 | 323.8 | 321.9 | 320.5 | 320.3 |
| 7.5°  | 376.3  | 367.9  | 351.9 | 337.2 | 325.9 | 317.9 | 311.3 | 308.5 | 306.3 | 305.2 | 304.4 |
| 10°   | 388.0  | 377.0  | 355.7 | 336.5 | 321.9 | 308.4 | 294.1 | 283.2 | 276.1 | 272.8 | 271.6 |
| 12.5° | 403.1  | 389.4  | 363.0 | 340.1 | 318.9 | 292.9 | 262.8 | 236.7 | 219.9 | 214.4 | 211.1 |
| 15°   | 420.7  | 403.8  | 372.5 | 344.8 | 308.2 | 260.7 | 209.5 | 175.5 | 159.9 | 156.8 | 153.3 |
| 17.5° | 437.7  | 419.0  | 384.0 | 345.7 | 284.6 | 208.3 | 153.5 | 130.4 | 124.4 | 126.4 | 127.0 |
| 20°   | 452.7  | 434.1  | 395.3 | 338.0 | 241.8 | 156.3 | 118.8 | 113.1 | 115.3 | 119.3 | 120.0 |
| 22.5° | 467.7  | 448.7  | 405.7 | 317.9 | 187.0 | 118.6 | 107.0 | 108.4 | 110.7 | 114.6 | 115.3 |
| 25°   | 486.1  | 466.4  | 415.4 | 281.0 | 140.3 | 100.9 | 101.6 | 103.7 | 106.0 | 109.6 | 110.0 |
| 27.5° | 507.3  | 488.7  | 421.8 | 232.9 | 104.1 | 92.8  | 95.0  | 98.2  | 100.4 | 103.9 | 104.6 |
| 30°   | 535.4  | 518.2  | 423.9 | 183.1 | 87.2  | 85.5  | 86.5  | 90.4  | 93.7  | 96.8  | 97.3  |
| 32.5° | 561.7  | 547.4  | 416.9 | 138.2 | 80.8  | 78.7  | 78.7  | 81.0  | 84.8  | 87.8  | 88.5  |
| 35°   | 586.0  | 576.7  | 394.7 | 101.1 | 76.0  | 72.5  | 70.8  | 70.8  | 73.2  | 75.6  | 76.3  |
| 37.5° | 618.1  | 617.8  | 358.8 | 80.6  | 71.3  | 67.3  | 63.6  | 60.9  | 60.0  | 60.5  | 60.9  |
| 40°   | 673.1  | 673.6  | 312.0 | 72.3  | 67.3  | 61.9  | 56.4  | 51.3  | 46.7  | 45.1  | 44.9  |
| 42.5° | 758.9  | 751.1  | 262.9 | 68.3  | 63.8  | 56.4  | 48.0  | 41.3  | 34.0  | 31.7  | 31.6  |
| 45°   | 895.3  | 849.0  | 210.9 | 64.7  | 60.2  | 50.1  | 39.7  | 30.5  | 24.6  | 22.9  | 22.9  |
| 47.5° | 1093.8 | 977.5  | 163.4 | 60.7  | 55.3  | 43.0  | 30.0  | 22.0  | 18.0  | 17.2  | 17.3  |
| 50°   | 1299.2 | 1103.4 | 125.2 | 55.7  | 49.4  | 35.6  | 22.2  | 16.0  | 13.7  | 13.7  | 13.9  |
| 52.5° | 1481.3 | 1195.6 | 97.6  | 50.3  | 42.1  | 27.9  | 16.8  | 12.5  | 11.4  | 11.3  | 11.4  |
| 55°   | 1651.8 | 1255.1 | 74.7  | 44.1  | 33.5  | 20.8  | 12.8  | 10.2  | 9.5   | 9.2   | 9.0   |
| 57.5° | 1816.2 | 1284.6 | 56.0  | 35.6  | 24.3  | 15.1  | 10.2  | 8.7   | 8.0   | 7.5   | 7.3   |
| 60°   | 1925.6 | 1260.7 | 38.5  | 26.2  | 16.8  | 10.9  | 8.5   | 7.5   | 6.6   | 6.1   | 5.9   |
| 62.5° | 1987.4 | 1195.3 | 24.8  | 18.9  | 12.0  | 8.2   | 6.8   | 6.2   | 5.0   | 4.5   | 4.5   |
| 65°   | 1962.4 | 1087.4 | 17.3  | 13.5  | 8.7   | 6.1   | 5.0   | 5.0   | 3.6   | 2.9   | 2.8   |
| 67.5° | 1739.0 | 918.7  | 13.2  | 10.1  | 6.2   | 4.5   | 3.8   | 4.3   | 2.3   | 1.4   | 1.4   |
| 69°   | 1496.2 | 761.4  | 11.3  | 8.3   | 5.2   | 3.6   | 3.3   | 4.0   | 1.6   | 1.0   | 0.9   |
| 70°   | 1300.4 | 656.8  | 10.2  | 7.3   | 4.3   | 3.1   | 2.9   | 3.8   | 1.6   | 0.9   | 0.7   |
| 72.5° | 778.0  | 366.3  | 7.8   | 5.2   | 2.8   | 2.4   | 2.4   | 4.3   | 1.6   | 0.9   | 0.7   |
| 75°   | 314.4  | 129.0  | 5.7   | 3.6   | 2.1   | 2.1   | 2.9   | 5.5   | 1.4   | 0.7   | 0.5   |
| 77.5° | 71.3   | 28.3   | 3.3   | 2.3   | 1.4   | 2.1   | 3.5   | 4.3   | 0.9   | 0.3   | 0.0   |
| 80°   | 17.3   | 6.9    | 2.1   | 1.4   | 0.9   | 1.6   | 2.6   | 2.4   | 0.2   | 0.0   | 0.0   |
| 82.5° | 5.7    | 2.4    | 0.9   | 0.7   | 0.2   | 0.5   | 1.2   | 0.7   | 0.0   | 0.0   | 0.0   |
| 85°   | 2.4    | 1.4    | 0.3   | 0.2   | 0.0   | 0.0   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.6    | 0.5    | 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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