

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: P385820

Luminaire Tested: **GWC-SA1B-830-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1B-830-U-5WQ  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5108 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

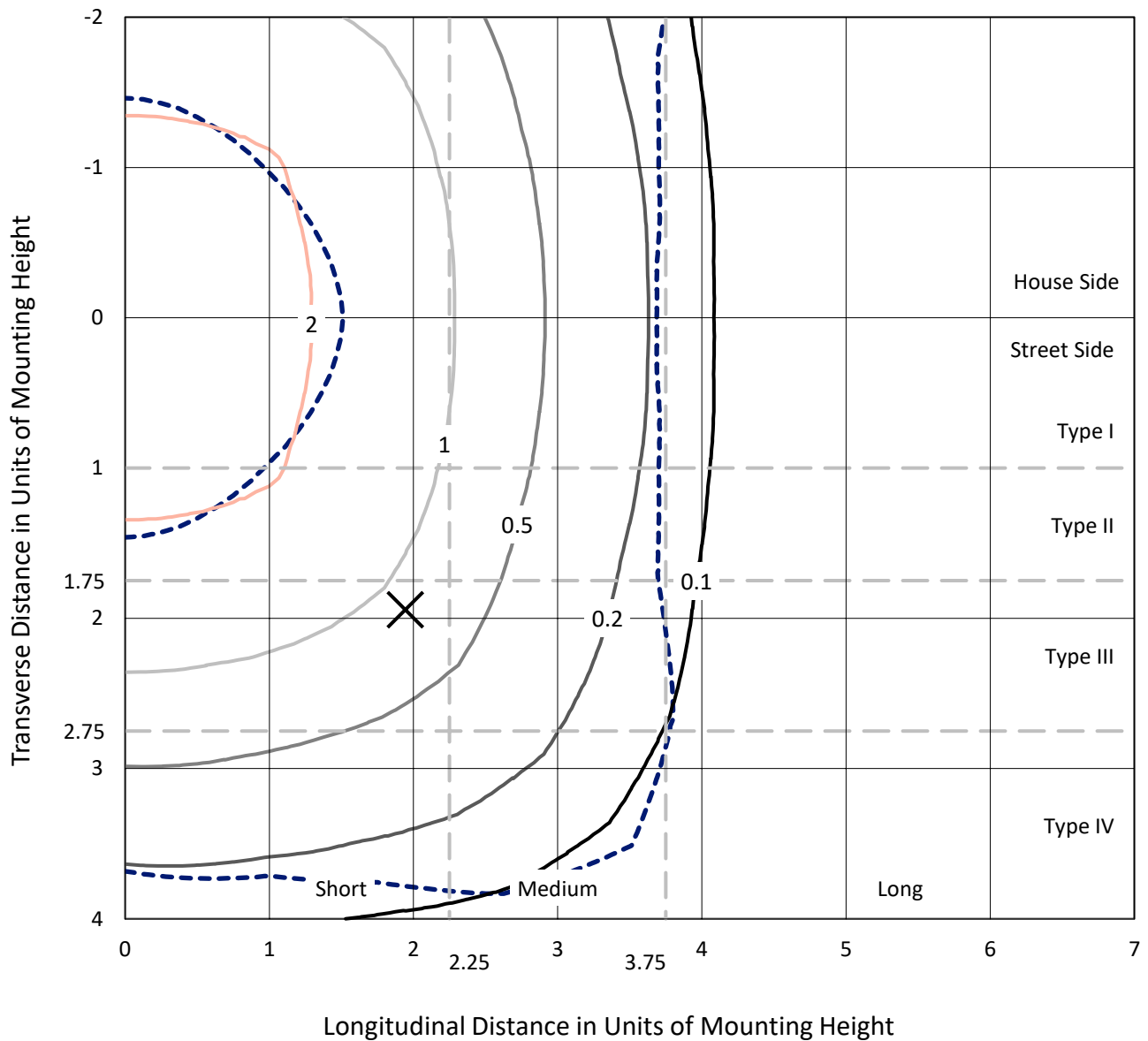
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

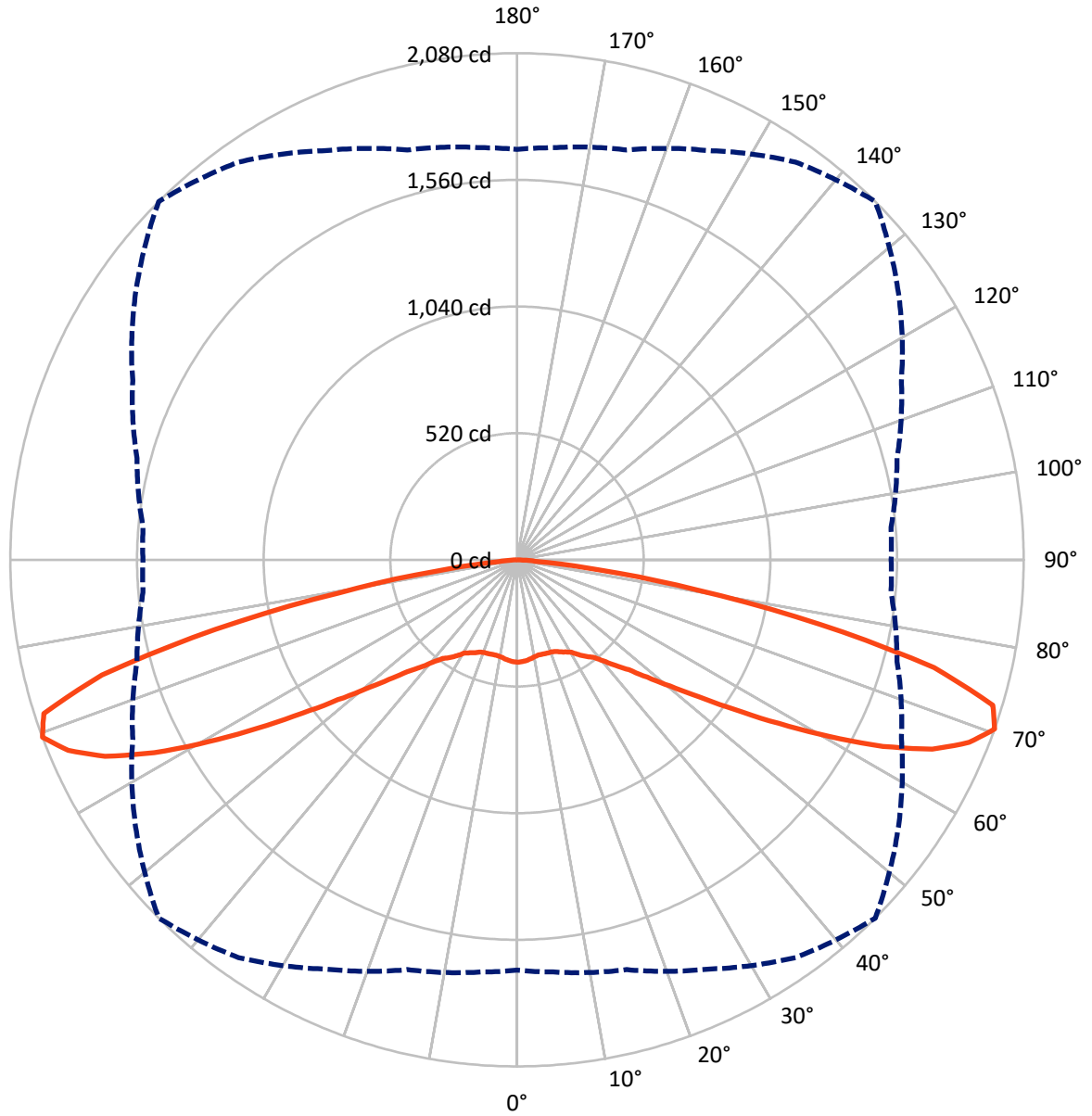
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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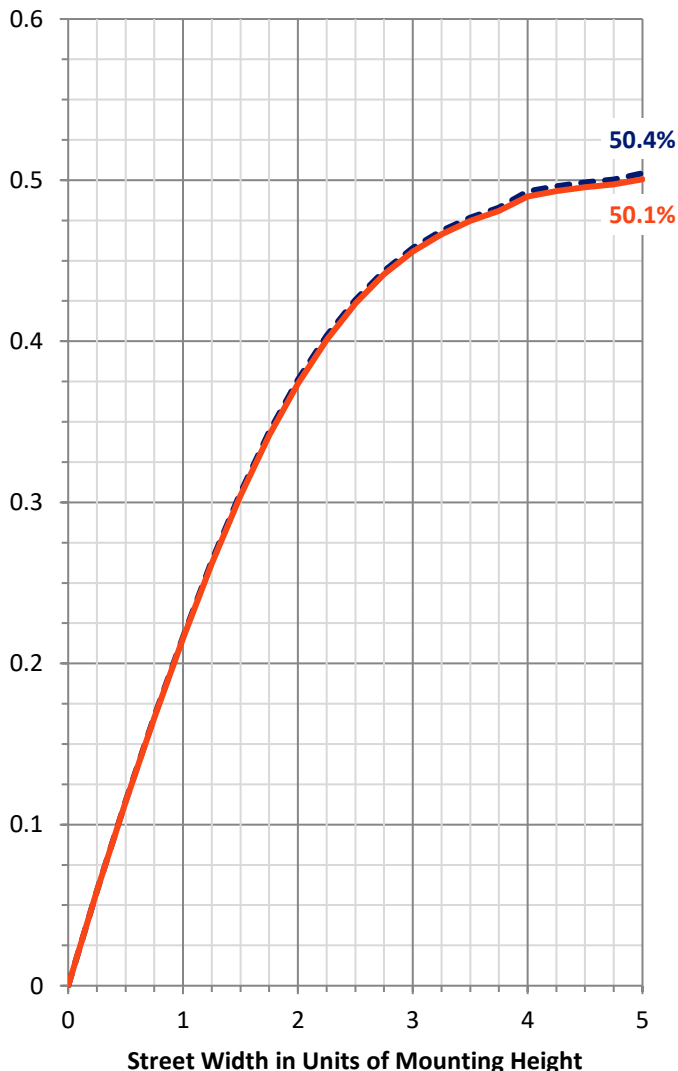
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2554.0   | 0.0    | 2554.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2554.0   | 0.0    | 2554.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5108.0   | 0.0    | 5108.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.2   | 0.8       |
| 10°-20°   | 114.6  | 2.2       |
| 20°-30°   | 195.4  | 3.8       |
| 30°-40°   | 305.3  | 6.0       |
| 40°-50°   | 517.5  | 10.1      |
| 50°-60°   | 943.6  | 18.5      |
| 60°-70°   | 1624.5 | 31.8      |
| 70°-80°   | 1273.4 | 24.9      |
| 80°-90°   | 94.4   | 1.8       |
| 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°    | 5108.0 | 100.0     |
| 0°-180°   | 5108.0 | 100.0     |



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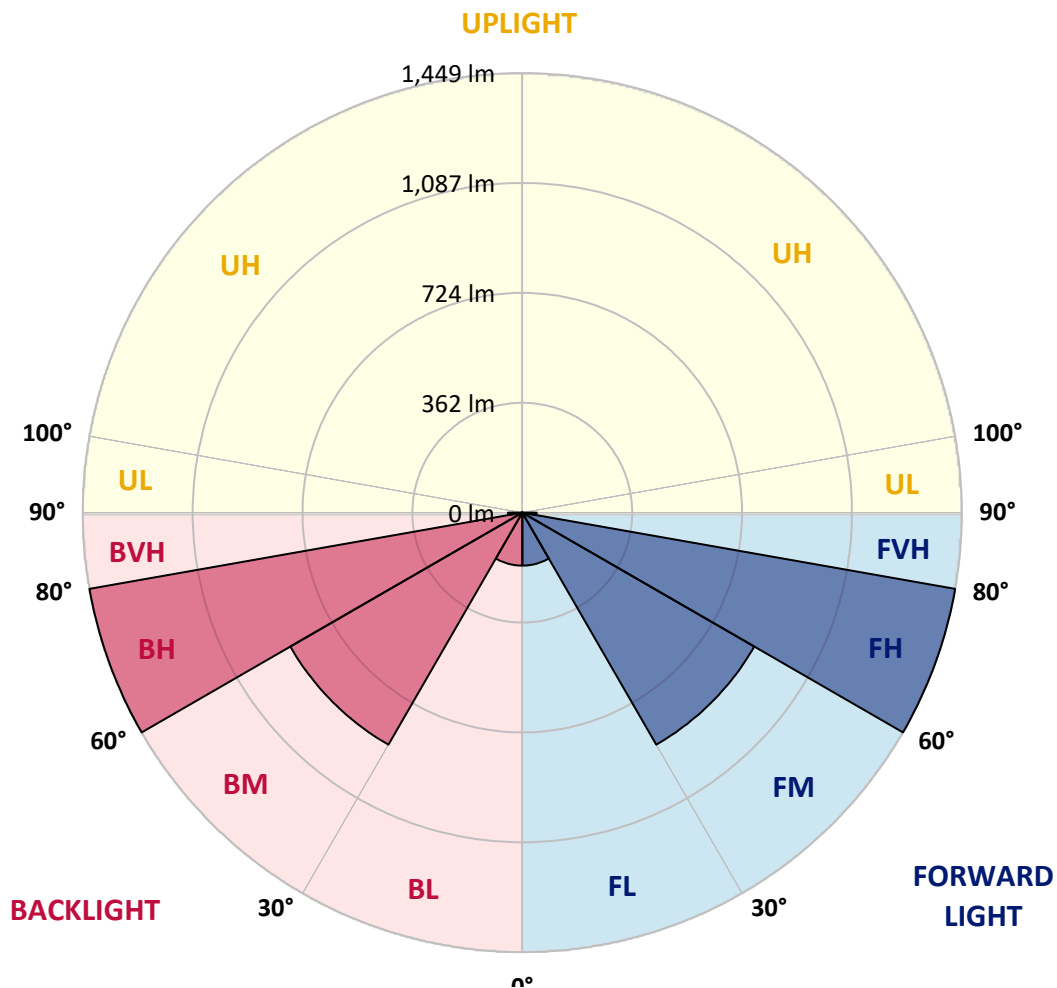
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 174.6  | 3.4       |                         |      |         |
| FM (30°-60°)   | 883.2  | 17.3      |                         |      |         |
| FH (60°-80°)   | 1448.9 | 28.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 47.2   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 174.6  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 883.2  | 17.3      | B1/1000                 |      |         |
| BH (60°-80°)   | 1448.9 | 28.4      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 47.2   | 0.9       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 420.4  | 420.4  | 420.4  | 420.4  | 420.4  | 420.4  | 420.4  | 420.4  | 420.4  | 420.4  | 420.4  |
| 2.5°  | 418.5  | 419.0  | 418.5  | 418.9  | 418.0  | 418.4  | 418.4  | 418.4  | 418.2  | 418.4  | 418.0  |
| 5°    | 414.8  | 415.2  | 414.5  | 414.8  | 414.3  | 414.8  | 415.0  | 414.8  | 414.5  | 414.6  | 414.0  |
| 7.5°  | 409.2  | 409.6  | 409.1  | 409.6  | 408.9  | 409.7  | 409.6  | 409.1  | 408.6  | 408.6  | 407.9  |
| 10°   | 406.2  | 406.4  | 405.0  | 404.5  | 403.0  | 403.3  | 403.8  | 404.3  | 404.8  | 405.9  | 405.7  |
| 12.5° | 406.4  | 406.4  | 404.3  | 402.1  | 399.9  | 400.5  | 401.3  | 403.2  | 405.2  | 407.0  | 407.2  |
| 15°   | 408.1  | 407.9  | 404.8  | 401.3  | 399.8  | 401.3  | 401.8  | 403.0  | 406.2  | 409.4  | 409.6  |
| 17.5° | 409.2  | 409.2  | 404.5  | 400.5  | 400.3  | 402.6  | 402.5  | 403.0  | 406.5  | 411.3  | 411.4  |
| 20°   | 411.4  | 411.4  | 405.4  | 401.0  | 401.0  | 403.5  | 403.7  | 404.5  | 408.1  | 413.3  | 414.1  |
| 22.5° | 416.3  | 416.5  | 410.1  | 406.5  | 406.9  | 408.4  | 408.9  | 410.3  | 413.5  | 419.2  | 420.2  |
| 25°   | 423.3  | 423.6  | 417.0  | 415.0  | 416.2  | 419.0  | 418.7  | 419.7  | 423.3  | 428.8  | 429.9  |
| 27.5° | 432.9  | 432.0  | 426.0  | 425.1  | 426.3  | 428.3  | 428.2  | 428.3  | 431.2  | 436.3  | 437.5  |
| 30°   | 445.4  | 445.1  | 440.7  | 441.2  | 440.7  | 440.0  | 440.2  | 441.5  | 443.0  | 447.1  | 448.3  |
| 32.5° | 457.6  | 457.9  | 455.2  | 457.7  | 461.4  | 464.0  | 460.1  | 456.4  | 454.7  | 456.9  | 457.9  |
| 35°   | 479.5  | 480.4  | 476.1  | 474.5  | 479.5  | 487.0  | 476.0  | 469.9  | 473.3  | 476.1  | 477.0  |
| 37.5° | 516.9  | 517.4  | 510.3  | 503.5  | 499.8  | 506.9  | 495.9  | 496.4  | 508.3  | 513.7  | 513.5  |
| 40°   | 559.4  | 559.6  | 554.9  | 549.0  | 542.6  | 544.2  | 539.8  | 541.2  | 549.0  | 553.9  | 555.2  |
| 42.5° | 610.1  | 609.6  | 602.2  | 593.7  | 591.9  | 593.6  | 586.1  | 585.1  | 594.1  | 602.9  | 603.0  |
| 45°   | 675.9  | 674.7  | 665.1  | 655.8  | 646.8  | 643.1  | 641.2  | 646.1  | 658.5  | 666.6  | 666.7  |
| 47.5° | 746.7  | 743.5  | 738.4  | 730.9  | 723.2  | 719.5  | 716.4  | 718.8  | 727.7  | 730.9  | 731.3  |
| 50°   | 819.5  | 820.2  | 821.2  | 818.3  | 815.4  | 814.3  | 806.3  | 801.7  | 804.5  | 798.5  | 797.7  |
| 52.5° | 905.8  | 907.2  | 917.0  | 925.3  | 930.2  | 932.7  | 917.7  | 901.9  | 893.2  | 881.7  | 878.3  |
| 55°   | 1007.7 | 1009.9 | 1024.3 | 1047.3 | 1070.9 | 1083.4 | 1056.2 | 1026.8 | 999.6  | 978.1  | 971.2  |
| 57.5° | 1121.3 | 1125.1 | 1144.9 | 1189.0 | 1237.5 | 1267.1 | 1221.1 | 1167.7 | 1115.2 | 1084.3 | 1078.9 |
| 60°   | 1254.4 | 1258.1 | 1285.5 | 1348.7 | 1427.3 | 1471.7 | 1402.1 | 1314.7 | 1249.3 | 1219.8 | 1209.8 |
| 62.5° | 1412.9 | 1413.2 | 1446.9 | 1520.7 | 1624.4 | 1686.3 | 1592.0 | 1475.2 | 1407.8 | 1372.2 | 1362.5 |
| 65°   | 1583.4 | 1584.2 | 1619.0 | 1698.8 | 1806.1 | 1873.3 | 1766.9 | 1645.2 | 1562.8 | 1510.2 | 1502.8 |
| 67.5° | 1703.9 | 1707.4 | 1744.1 | 1840.0 | 1940.4 | 2001.1 | 1890.9 | 1753.4 | 1658.1 | 1595.4 | 1589.1 |
| 70°   | 1684.6 | 1698.5 | 1741.5 | 1853.6 | 1993.1 | 2079.6 | 1911.0 | 1740.5 | 1614.8 | 1540.8 | 1535.6 |
| 72.5° | 1469.2 | 1495.7 | 1553.1 | 1700.1 | 1923.3 | 2042.5 | 1801.4 | 1558.9 | 1416.6 | 1353.6 | 1344.1 |
| 75°   | 1000.5 | 1043.5 | 1130.2 | 1342.3 | 1643.2 | 1768.4 | 1516.5 | 1242.9 | 1109.1 | 1021.9 | 1015.5 |
| 77.5° | 446.1  | 455.9  | 565.7  | 809.9  | 1133.9 | 1270.0 | 1101.8 | 813.1  | 610.3  | 486.8  | 460.8  |
| 80°   | 124.4  | 125.9  | 168.0  | 301.6  | 567.6  | 746.2  | 609.3  | 316.8  | 178.1  | 125.5  | 118.3  |
| 82.5° | 39.5   | 42.9   | 52.4   | 78.2   | 190.8  | 340.5  | 195.8  | 84.5   | 60.2   | 48.0   | 43.3   |
| 85°   | 19.3   | 19.1   | 26.5   | 31.8   | 48.7   | 75.4   | 51.9   | 39.2   | 34.3   | 22.8   | 20.6   |
| 87.5° | 8.1    | 8.3    | 12.3   | 11.2   | 14.2   | 12.2   | 16.7   | 17.6   | 18.4   | 10.1   | 8.8    |
| 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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