

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: P386843

Luminaire Tested: **GWC-SA2C-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2C-740-U-T2  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14485 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

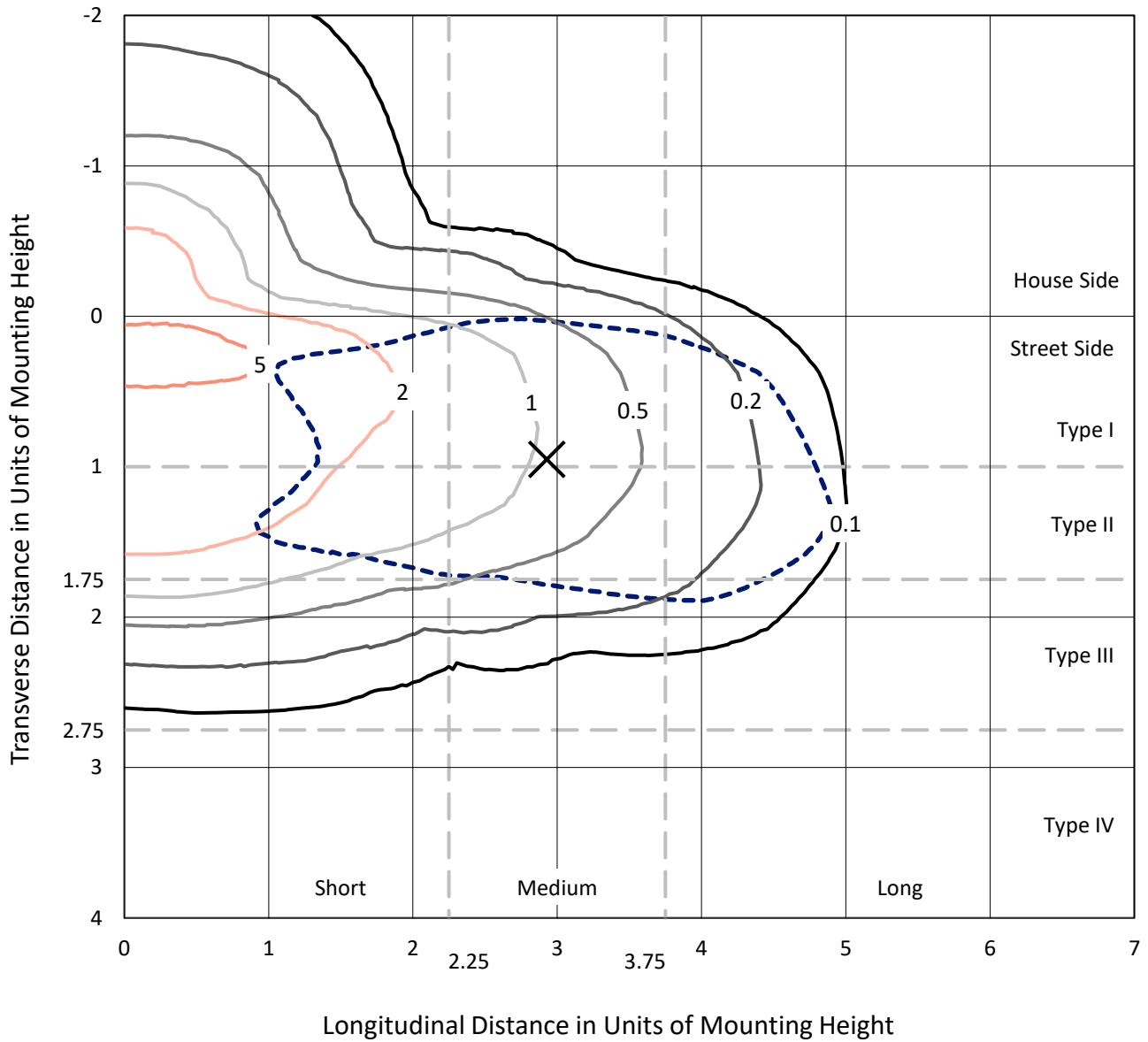
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

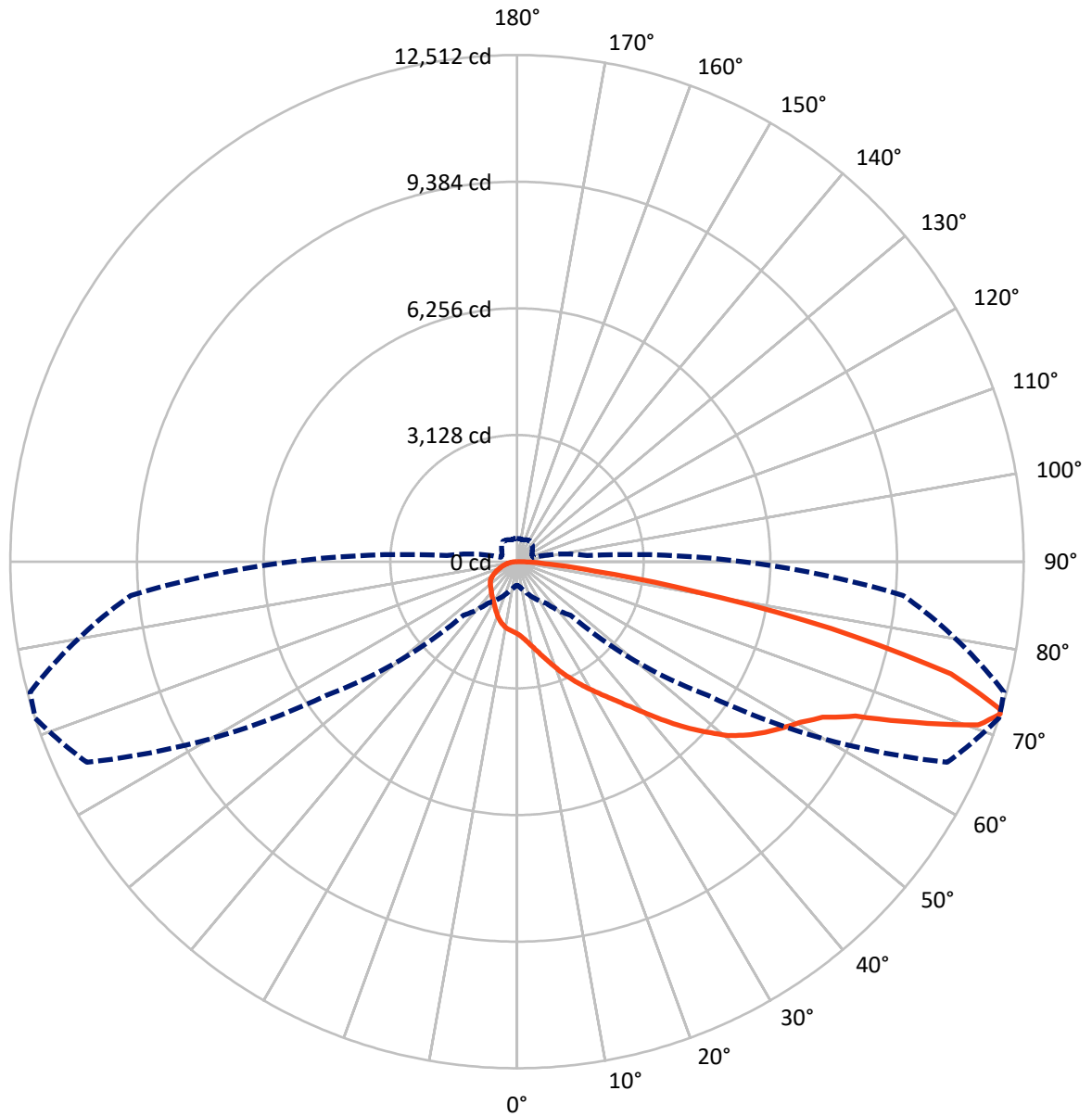
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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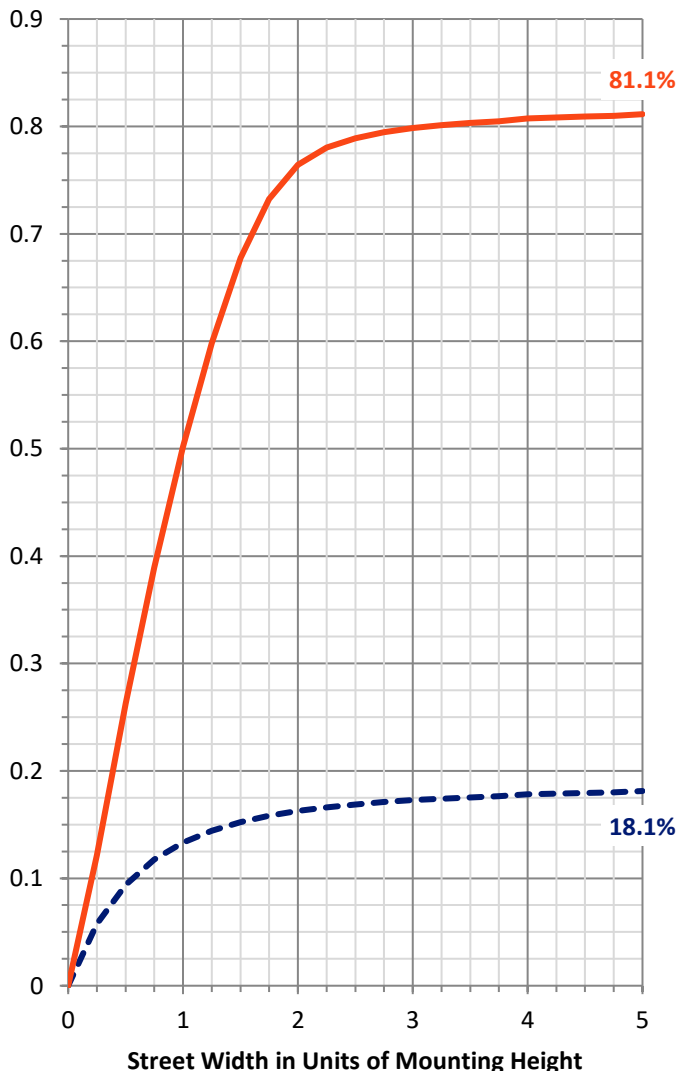
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2687.1   | 0.0    | 2687.1  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 11797.9  | 0.0    | 11797.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 14485.0  | 0.0    | 14485.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 178.6   | 1.2       |
| 10°-20°   | 577.0   | 4.0       |
| 20°-30°   | 1011.1  | 7.0       |
| 30°-40°   | 1499.2  | 10.4      |
| 40°-50°   | 2192.7  | 15.1      |
| 50°-60°   | 3017.2  | 20.8      |
| 60°-70°   | 3359.0  | 23.2      |
| 70°-80°   | 2276.1  | 15.7      |
| 80°-90°   | 374.1   | 2.6       |
| 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°    | 14485.0 | 100.0     |
| 0°-180°   | 14485.0 | 100.0     |

**Coefficient of Utilization**



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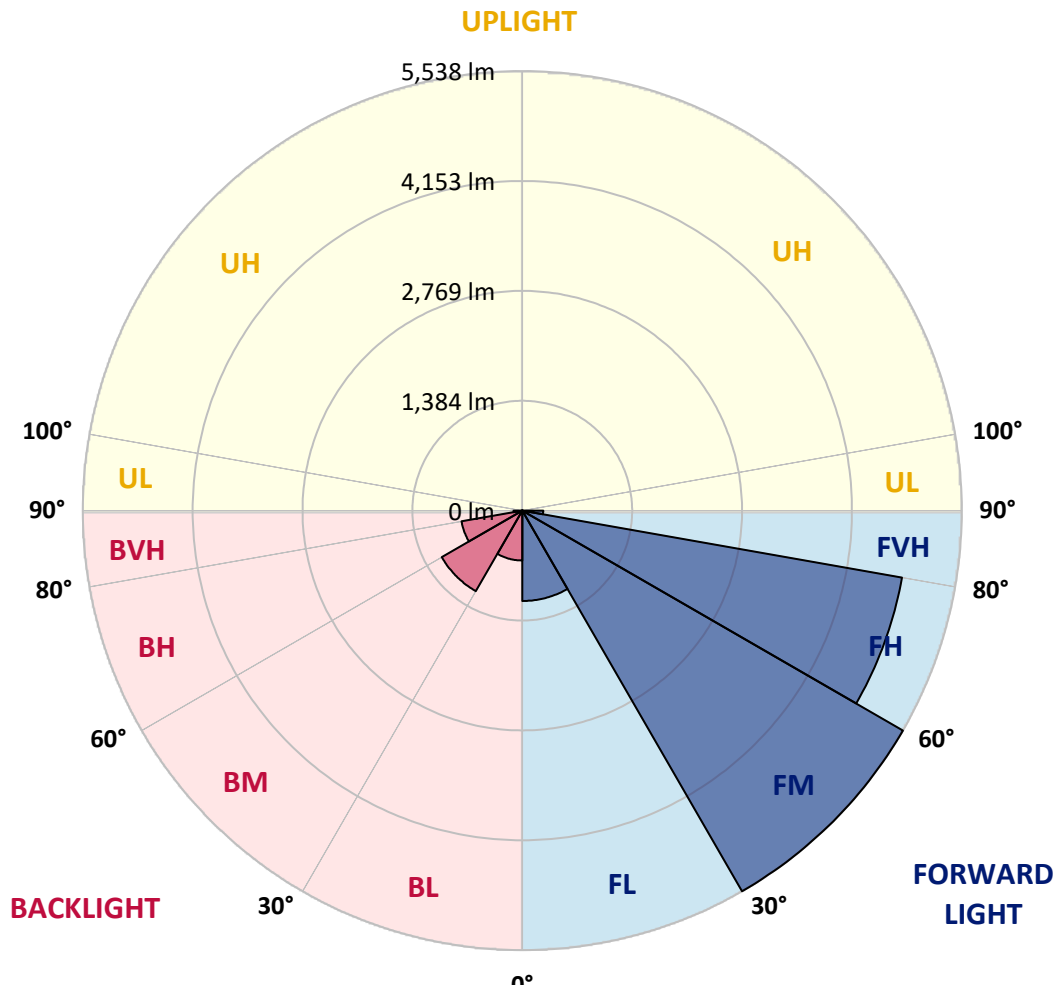
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1138.6 | 7.9       |                         |      |         |
| FM (30°-60°)   | 5537.8 | 38.2      |                         |      |         |
| FH (60°-80°)   | 4857.7 | 33.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 263.9  | 1.8       |                         |      | G3/500  |
| BL (0°-30°)    | 628.1  | 4.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1171.3 | 8.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 777.4  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 110.2  | 0.8       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 72°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0  | 1782.0  | 1782.0  | 1782.0 |
| 2.5°  | 1968.6 | 1965.6 | 1955.1 | 1955.1 | 1935.1 | 1918.2 | 1886.3 | 1864.8  | 1839.4  | 1830.4  | 1800.5 |
| 5°    | 2159.1 | 2160.1 | 2147.1 | 2138.1 | 2108.7 | 2072.8 | 2018.4 | 1969.1  | 1919.7  | 1899.7  | 1838.4 |
| 7.5°  | 2319.2 | 2317.2 | 2313.7 | 2306.2 | 2278.8 | 2241.9 | 2168.6 | 2095.2  | 2022.4  | 1992.5  | 1886.8 |
| 10°   | 2421.9 | 2426.4 | 2429.4 | 2432.9 | 2421.4 | 2395.0 | 2325.7 | 2236.4  | 2141.1  | 2100.2  | 1944.6 |
| 12.5° | 2473.8 | 2481.8 | 2495.7 | 2519.7 | 2538.6 | 2535.6 | 2485.3 | 2390.5  | 2277.3  | 2225.9  | 2016.9 |
| 15°   | 2504.2 | 2514.7 | 2536.6 | 2579.5 | 2632.9 | 2663.3 | 2649.9 | 2564.1  | 2437.9  | 2374.5  | 2105.2 |
| 17.5° | 2523.2 | 2531.7 | 2565.6 | 2622.9 | 2702.2 | 2783.0 | 2818.4 | 2746.6  | 2619.4  | 2547.1  | 2206.5 |
| 20°   | 2536.1 | 2542.6 | 2585.0 | 2652.4 | 2755.1 | 2883.8 | 2982.5 | 2964.6  | 2819.4  | 2725.7  | 2312.2 |
| 22.5° | 2565.1 | 2570.6 | 2611.0 | 2678.8 | 2792.5 | 2958.6 | 3140.6 | 3167.6  | 3030.4  | 2924.2  | 2425.4 |
| 25°   | 2645.9 | 2645.9 | 2679.8 | 2727.2 | 2833.9 | 3023.4 | 3274.3 | 3393.5  | 3245.9  | 3122.2  | 2530.2 |
| 27.5° | 2800.0 | 2798.5 | 2811.0 | 2827.4 | 2908.2 | 3089.3 | 3393.5 | 3593.0  | 3469.3  | 3334.1  | 2631.9 |
| 30°   | 2982.5 | 2992.5 | 2994.0 | 2986.0 | 3023.9 | 3171.5 | 3503.7 | 3803.5  | 3694.2  | 3548.6  | 2736.1 |
| 32.5° | 3217.4 | 3223.9 | 3216.4 | 3190.0 | 3184.5 | 3288.3 | 3611.9 | 4023.9  | 3937.6  | 3772.5  | 2831.4 |
| 35°   | 3515.7 | 3503.2 | 3479.8 | 3425.9 | 3374.5 | 3444.4 | 3735.6 | 4244.4  | 4210.9  | 4043.4  | 2962.6 |
| 37.5° | 3835.4 | 3835.9 | 3807.0 | 3684.8 | 3613.9 | 3643.9 | 3906.2 | 4494.2  | 4541.6  | 4365.6  | 3130.7 |
| 40°   | 4091.7 | 4105.2 | 4123.2 | 3962.6 | 3870.8 | 3912.2 | 4123.2 | 4784.0  | 4932.6  | 4747.6  | 3349.6 |
| 42.5° | 4270.8 | 4286.3 | 4337.1 | 4236.4 | 4141.1 | 4217.9 | 4378.5 | 5093.2  | 5371.5  | 5188.5  | 3606.0 |
| 45°   | 4460.3 | 4468.8 | 4504.7 | 4461.3 | 4400.5 | 4573.5 | 4666.3 | 5413.4  | 5835.9  | 5658.3  | 3892.7 |
| 47.5° | 4659.8 | 4668.8 | 4705.7 | 4676.8 | 4644.9 | 4905.7 | 4966.6 | 5715.2  | 6280.8  | 6174.5  | 4199.0 |
| 50°   | 4906.2 | 4912.2 | 4947.1 | 4894.7 | 4904.7 | 5156.1 | 5234.9 | 5992.0  | 6747.1  | 6638.4  | 4506.2 |
| 52.5° | 5242.4 | 5243.9 | 5292.2 | 5244.9 | 5198.0 | 5339.6 | 5465.8 | 6252.8  | 7112.7  | 7061.3  | 4813.4 |
| 55°   | 5505.7 | 5521.7 | 5680.3 | 5670.3 | 5643.4 | 5506.2 | 5658.8 | 6501.2  | 7438.9  | 7463.3  | 5139.6 |
| 57.5° | 5337.6 | 5400.0 | 5721.2 | 5947.6 | 6168.0 | 5920.7 | 5919.7 | 6781.0  | 7742.1  | 7857.8  | 5498.2 |
| 60°   | 4674.8 | 4759.6 | 5232.9 | 5735.1 | 6424.9 | 6641.9 | 6461.3 | 7122.6  | 8048.3  | 8248.8  | 5947.6 |
| 62.5° | 3338.6 | 3478.3 | 4119.7 | 4921.7 | 6072.8 | 7119.7 | 7563.5 | 7664.8  | 8464.8  | 8701.7  | 6531.6 |
| 65°   | 1687.8 | 1793.5 | 2331.2 | 3297.2 | 4851.8 | 6807.4 | 8761.5 | 8851.8  | 9188.5  | 9398.9  | 7430.9 |
| 67.5° | 1025.4 | 1065.3 | 1327.7 | 1833.9 | 2974.5 | 5302.7 | 9152.6 | 10830.4 | 10589.0 | 10700.7 | 8713.2 |
| 70°   | 755.6  | 785.0  | 948.6  | 1217.9 | 1710.7 | 3111.7 | 7952.6 | 12242.3 | 12083.7 | 12071.2 | 9660.8 |
| 72°   | 588.5  | 610.0  | 754.6  | 984.0  | 1250.9 | 1866.8 | 5764.1 | 11721.1 | 12511.6 | 12448.8 | 9574.0 |
| 72.5° | 558.1  | 577.1  | 708.7  | 926.2  | 1182.0 | 1692.3 | 5182.5 | 11369.5 | 12480.7 | 12452.3 | 9461.8 |
| 75°   | 439.4  | 452.9  | 524.7  | 716.2  | 925.2  | 960.1  | 2839.9 | 8810.9  | 11071.7 | 11532.1 | 8510.2 |
| 77.5° | 363.6  | 365.6  | 403.5  | 521.2  | 721.2  | 678.8  | 1395.0 | 6113.2  | 7928.1  | 8434.4  | 6028.4 |
| 80°   | 296.3  | 298.8  | 316.7  | 365.6  | 545.6  | 502.2  | 662.3  | 3515.2  | 4438.9  | 4444.4  | 2866.8 |
| 82.5° | 235.9  | 236.4  | 256.4  | 267.3  | 392.0  | 359.1  | 379.5  | 1650.4  | 1939.6  | 1865.8  | 1030.4 |
| 85°   | 166.1  | 162.6  | 250.4  | 219.4  | 256.4  | 230.4  | 209.5  | 653.4   | 802.0   | 767.1   | 322.7  |
| 87.5° | 55.4   | 57.4   | 111.2  | 142.1  | 149.6  | 130.7  | 93.3   | 250.4   | 302.7   | 300.2   | 102.2  |
| 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°    | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 | 1782.0 |
| 2.5°  | 1791.0 | 1775.1 | 1751.6 | 1725.7 | 1705.2 | 1684.3 | 1668.8 | 1660.8 | 1651.9 | 1644.4 | 1653.4 |
| 5°    | 1810.0 | 1780.0 | 1730.2 | 1681.3 | 1645.4 | 1613.5 | 1590.5 | 1578.5 | 1567.6 | 1560.1 | 1561.1 |
| 7.5°  | 1840.9 | 1792.5 | 1708.7 | 1637.4 | 1587.5 | 1553.1 | 1529.7 | 1521.7 | 1514.7 | 1512.7 | 1515.2 |
| 10°   | 1873.8 | 1802.5 | 1680.3 | 1585.5 | 1528.7 | 1500.2 | 1489.8 | 1495.3 | 1500.2 | 1504.7 | 1509.7 |
| 12.5° | 1911.2 | 1811.5 | 1638.9 | 1524.7 | 1476.3 | 1465.3 | 1475.8 | 1499.7 | 1517.2 | 1527.7 | 1534.2 |
| 15°   | 1960.1 | 1819.4 | 1591.0 | 1463.8 | 1431.4 | 1443.9 | 1479.3 | 1520.7 | 1551.1 | 1570.6 | 1573.6 |
| 17.5° | 2005.0 | 1818.9 | 1529.7 | 1402.5 | 1395.0 | 1431.4 | 1484.8 | 1543.1 | 1584.0 | 1611.5 | 1616.9 |
| 20°   | 2051.4 | 1805.5 | 1458.3 | 1342.6 | 1358.1 | 1417.9 | 1487.3 | 1557.6 | 1607.0 | 1638.9 | 1646.4 |
| 22.5° | 2094.7 | 1782.0 | 1380.0 | 1288.3 | 1327.2 | 1400.0 | 1477.8 | 1549.1 | 1598.5 | 1624.4 | 1632.4 |
| 25°   | 2124.2 | 1741.1 | 1300.7 | 1242.4 | 1299.7 | 1378.0 | 1446.9 | 1504.2 | 1541.1 | 1554.1 | 1556.1 |
| 27.5° | 2139.1 | 1687.8 | 1225.9 | 1202.5 | 1271.3 | 1342.1 | 1389.5 | 1417.9 | 1428.4 | 1427.4 | 1425.4 |
| 30°   | 2141.1 | 1617.4 | 1161.6 | 1170.1 | 1238.4 | 1289.3 | 1311.7 | 1306.2 | 1292.8 | 1269.8 | 1271.8 |
| 32.5° | 2134.6 | 1538.1 | 1107.7 | 1139.1 | 1196.5 | 1224.9 | 1225.9 | 1199.5 | 1163.6 | 1127.2 | 1117.2 |
| 35°   | 2136.6 | 1460.3 | 1060.3 | 1104.2 | 1145.6 | 1158.1 | 1146.6 | 1107.7 | 1058.8 | 1012.0 | 1002.0 |
| 37.5° | 2158.6 | 1392.5 | 1019.4 | 1063.8 | 1089.3 | 1092.3 | 1075.8 | 1034.9 | 999.0  | 953.1  | 949.1  |
| 40°   | 2211.0 | 1344.1 | 980.5  | 1018.4 | 1032.9 | 1034.4 | 1011.0 | 982.0  | 985.0  | 960.6  | 960.1  |
| 42.5° | 2305.2 | 1323.2 | 946.1  | 971.1  | 980.0  | 983.0  | 965.1  | 946.6  | 972.6  | 956.6  | 951.1  |
| 45°   | 2426.9 | 1328.2 | 917.2  | 924.7  | 941.1  | 955.1  | 944.1  | 921.7  | 931.7  | 862.3  | 839.4  |
| 47.5° | 2567.6 | 1360.1 | 894.3  | 884.8  | 913.2  | 939.6  | 922.7  | 888.8  | 853.4  | 784.5  | 771.6  |
| 50°   | 2732.2 | 1409.5 | 873.3  | 845.4  | 882.8  | 918.7  | 901.7  | 853.4  | 800.0  | 766.6  | 762.1  |
| 52.5° | 2903.7 | 1469.8 | 852.4  | 802.0  | 844.4  | 902.7  | 894.3  | 845.4  | 779.5  | 746.6  | 740.6  |
| 55°   | 3098.2 | 1530.7 | 825.9  | 751.6  | 803.0  | 895.3  | 890.8  | 816.5  | 764.1  | 745.6  | 741.1  |
| 57.5° | 3340.1 | 1600.0 | 791.0  | 699.2  | 764.1  | 868.3  | 854.4  | 799.0  | 748.1  | 734.2  | 732.7  |
| 60°   | 3655.3 | 1702.2 | 740.6  | 643.4  | 716.7  | 826.9  | 823.9  | 773.6  | 722.7  | 712.7  | 710.7  |
| 62.5° | 4128.2 | 1871.3 | 671.3  | 587.5  | 663.8  | 756.6  | 784.0  | 739.1  | 695.8  | 695.3  | 696.3  |
| 65°   | 4861.3 | 2125.7 | 596.0  | 538.6  | 610.5  | 697.3  | 737.7  | 703.7  | 668.3  | 678.3  | 679.8  |
| 67.5° | 5711.2 | 2336.6 | 522.2  | 490.8  | 556.1  | 640.9  | 695.8  | 668.3  | 631.9  | 657.9  | 658.3  |
| 70°   | 5994.0 | 2148.1 | 457.4  | 443.4  | 499.7  | 586.5  | 650.4  | 629.4  | 592.5  | 618.4  | 616.0  |
| 72°   | 5578.0 | 1734.2 | 415.5  | 407.5  | 457.4  | 541.6  | 610.0  | 593.0  | 556.6  | 574.1  | 567.6  |
| 72.5° | 5446.8 | 1653.4 | 405.0  | 398.5  | 445.9  | 530.2  | 599.5  | 584.0  | 547.6  | 562.6  | 556.6  |
| 75°   | 4858.8 | 1435.9 | 348.1  | 349.6  | 389.0  | 474.3  | 540.6  | 535.7  | 498.3  | 499.7  | 497.8  |
| 77.5° | 3524.2 | 1052.9 | 293.3  | 303.2  | 331.2  | 417.0  | 481.3  | 478.3  | 437.4  | 429.9  | 428.4  |
| 80°   | 1635.4 | 537.2  | 238.9  | 243.4  | 272.3  | 348.6  | 410.5  | 406.5  | 373.6  | 364.1  | 358.6  |
| 82.5° | 560.1  | 255.4  | 179.5  | 182.5  | 211.0  | 280.8  | 356.1  | 353.6  | 326.2  | 307.7  | 296.3  |
| 85°   | 200.0  | 127.2  | 125.7  | 122.7  | 150.6  | 220.9  | 310.2  | 296.8  | 256.4  | 218.5  | 217.5  |
| 87.5° | 64.8   | 54.4   | 64.8   | 64.3   | 87.8   | 149.6  | 225.4  | 192.0  | 186.0  | 154.6  | 151.6  |
| 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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--- HS — SS

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Scaled Data Report



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