

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: P386948

Luminaire Tested: **GWC-SA2C-830-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2C-830-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9520 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

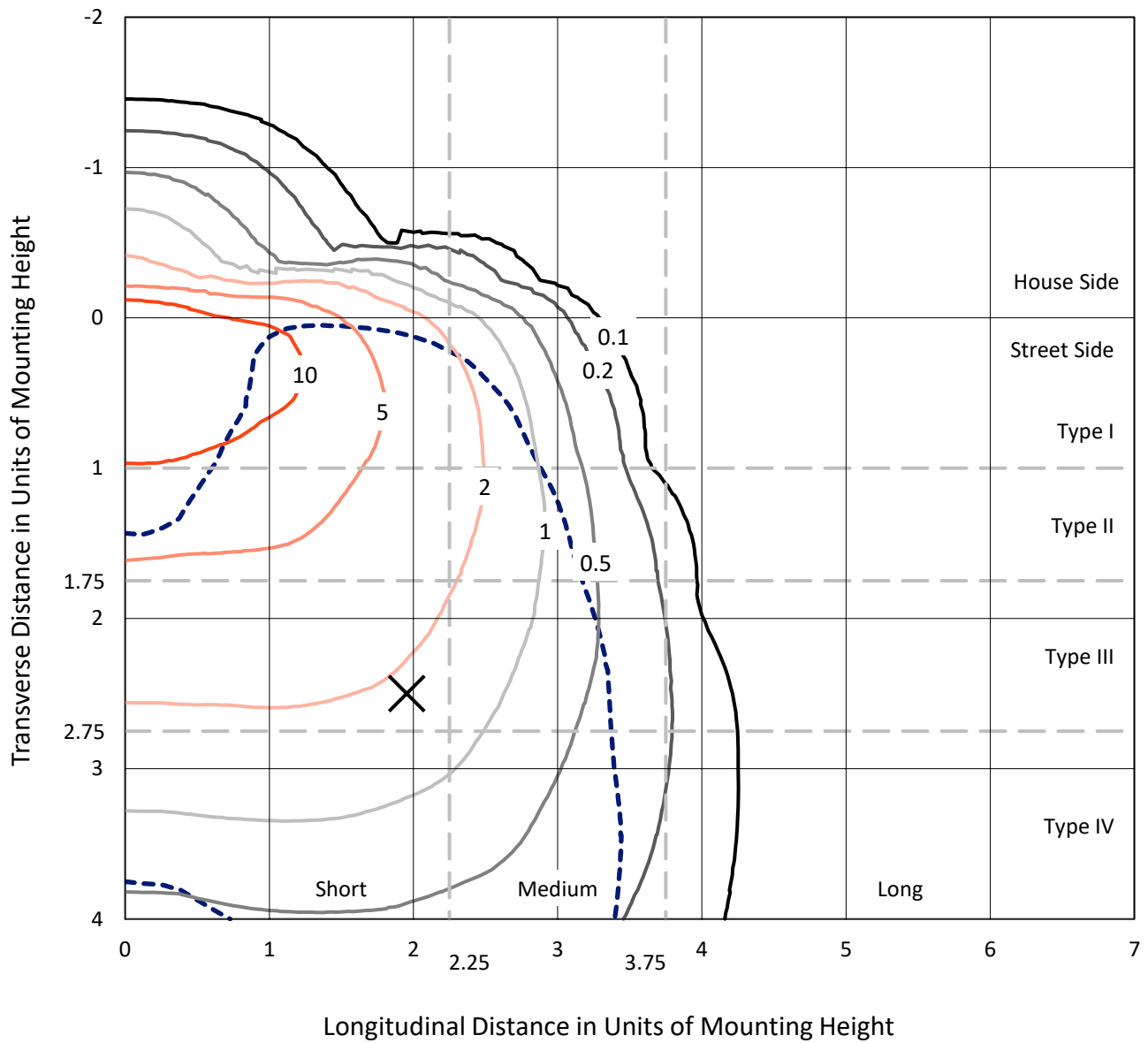
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

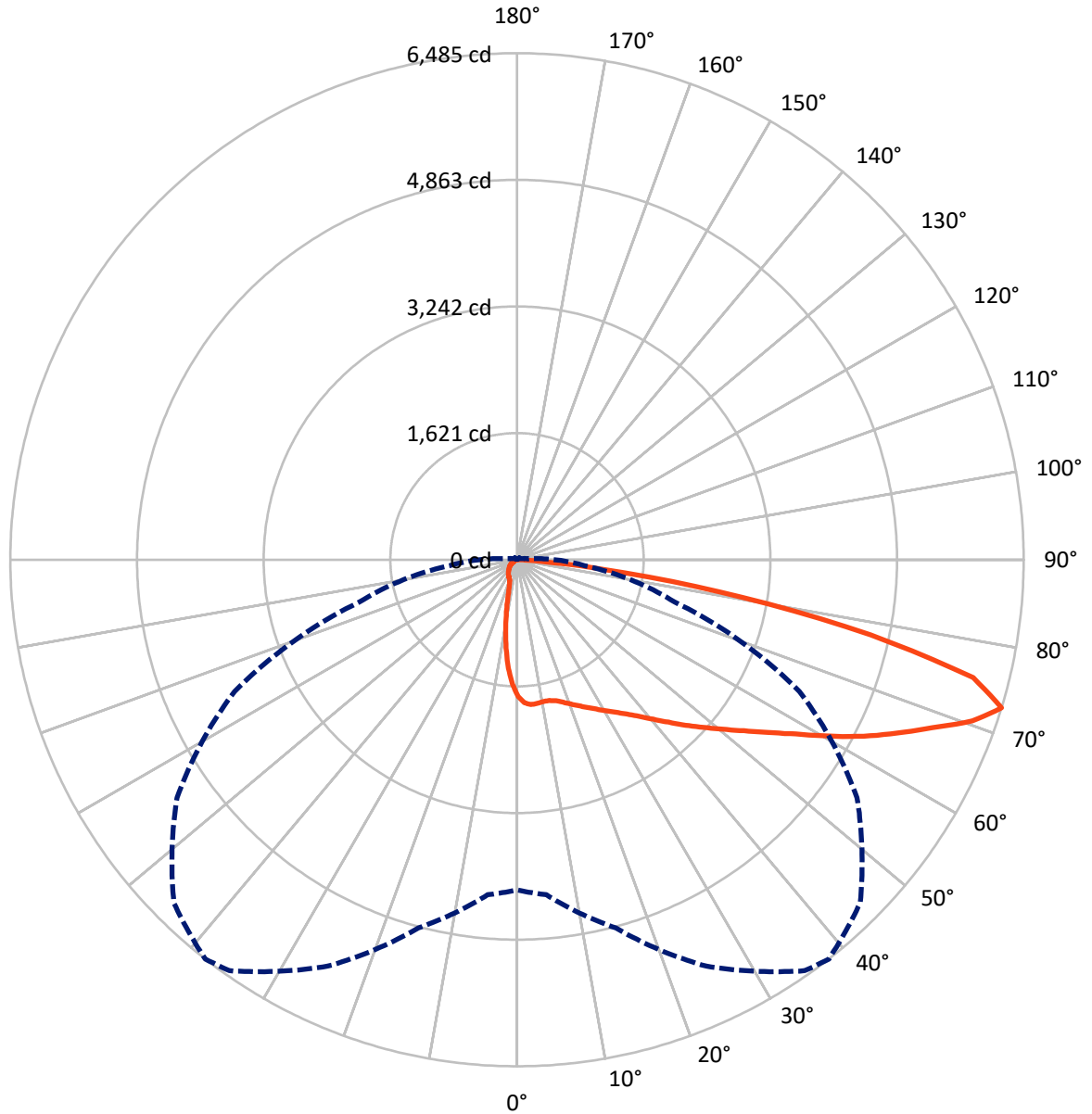
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 801.1    | 0.0    | 801.1  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 8718.8   | 0.0    | 8718.8 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 9520.0   | 0.0    | 9520.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.2  | 1.6       |
| 10°-20°   | 364.8  | 3.8       |
| 20°-30°   | 580.2  | 6.1       |
| 30°-40°   | 872.3  | 9.2       |
| 40°-50°   | 1330.8 | 14.0      |
| 50°-60°   | 1880.8 | 19.8      |
| 60°-70°   | 2359.2 | 24.8      |
| 70°-80°   | 1764.0 | 18.5      |
| 80°-90°   | 218.7  | 2.3       |
| 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°    | 9520.0 | 100.0     |
| 0°-180°   | 9520.0 | 100.0     |



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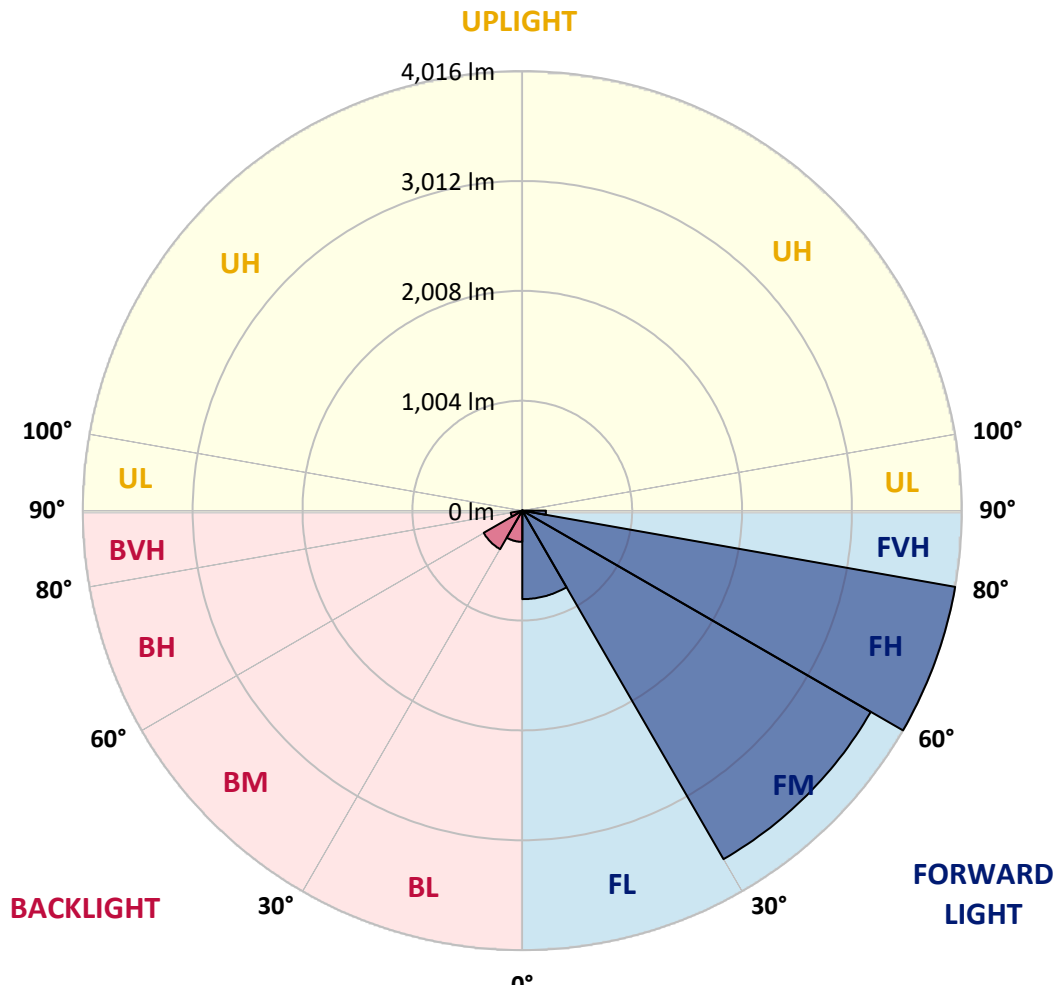
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 809.0  | 8.5       |                         |      |         |
| FM (30°-60°)   | 3677.0 | 38.6      |                         |      |         |
| FH (60°-80°)   | 4016.2 | 42.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 216.7  | 2.3       |                         |      | G2/225  |
| BL (0°-30°)    | 285.3  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 406.8  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 107.0  | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 2.0    | 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°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 |
| 2.5°  | 1858.2 | 1858.6 | 1854.3 | 1847.2 | 1838.1 | 1833.3 | 1825.4 | 1812.8 | 1799.3 | 1775.2 | 1749.1 |
| 5°    | 1896.2 | 1896.2 | 1890.7 | 1881.2 | 1866.5 | 1862.2 | 1847.2 | 1827.0 | 1799.3 | 1760.2 | 1716.3 |
| 7.5°  | 1892.2 | 1893.0 | 1885.5 | 1875.6 | 1861.0 | 1857.1 | 1838.9 | 1816.3 | 1781.9 | 1734.5 | 1678.3 |
| 10°   | 1871.7 | 1873.7 | 1867.7 | 1863.0 | 1849.5 | 1845.2 | 1828.2 | 1805.7 | 1771.3 | 1720.6 | 1656.2 |
| 12.5° | 1850.7 | 1852.7 | 1854.7 | 1859.0 | 1850.7 | 1849.1 | 1835.7 | 1816.7 | 1783.9 | 1731.3 | 1658.6 |
| 15°   | 1837.3 | 1841.2 | 1855.5 | 1872.5 | 1874.4 | 1872.9 | 1864.2 | 1846.4 | 1813.2 | 1758.6 | 1675.6 |
| 17.5° | 1837.3 | 1843.6 | 1873.3 | 1905.7 | 1917.1 | 1918.3 | 1910.8 | 1885.9 | 1846.4 | 1787.9 | 1691.4 |
| 20°   | 1852.7 | 1861.4 | 1907.7 | 1953.5 | 1972.5 | 1972.5 | 1957.9 | 1923.1 | 1876.8 | 1814.4 | 1702.1 |
| 22.5° | 1892.2 | 1903.7 | 1961.8 | 2014.8 | 2035.0 | 2030.6 | 2010.8 | 1960.2 | 1908.4 | 1844.4 | 1715.5 |
| 25°   | 1970.1 | 1978.8 | 2039.3 | 2092.7 | 2104.9 | 2095.1 | 2070.2 | 2005.3 | 1948.8 | 1885.1 | 1740.0 |
| 27.5° | 2070.6 | 2071.7 | 2134.2 | 2179.3 | 2171.8 | 2165.0 | 2133.8 | 2061.9 | 2006.9 | 1943.2 | 1782.3 |
| 30°   | 2180.9 | 2180.9 | 2235.8 | 2270.2 | 2247.3 | 2241.7 | 2210.5 | 2130.3 | 2081.2 | 2022.3 | 1842.4 |
| 32.5° | 2287.6 | 2292.4 | 2337.0 | 2358.8 | 2333.1 | 2327.5 | 2297.1 | 2216.8 | 2180.1 | 2142.9 | 1936.1 |
| 35°   | 2390.8 | 2394.4 | 2436.7 | 2448.5 | 2424.0 | 2425.6 | 2403.8 | 2335.8 | 2322.0 | 2317.3 | 2077.3 |
| 37.5° | 2490.8 | 2491.6 | 2534.7 | 2542.2 | 2530.0 | 2543.4 | 2545.4 | 2485.3 | 2511.0 | 2549.3 | 2276.1 |
| 40°   | 2582.2 | 2582.9 | 2625.6 | 2645.0 | 2666.0 | 2683.4 | 2698.8 | 2666.8 | 2751.8 | 2840.7 | 2513.0 |
| 42.5° | 2655.3 | 2663.6 | 2717.8 | 2754.5 | 2809.9 | 2843.1 | 2885.0 | 2883.4 | 3038.4 | 3172.1 | 2799.2 |
| 45°   | 2719.7 | 2734.0 | 2809.5 | 2873.9 | 2968.8 | 3021.8 | 3087.4 | 3138.8 | 3361.0 | 3540.9 | 3089.0 |
| 47.5° | 2804.8 | 2818.2 | 2904.4 | 3009.9 | 3136.5 | 3206.1 | 3314.8 | 3425.9 | 3715.7 | 3903.1 | 3372.1 |
| 50°   | 2924.5 | 2918.6 | 3003.6 | 3155.0 | 3317.5 | 3408.9 | 3563.9 | 3730.3 | 4067.6 | 4218.6 | 3538.6 |
| 52.5° | 3052.3 | 3049.9 | 3112.7 | 3312.8 | 3531.0 | 3637.8 | 3842.6 | 4045.0 | 4404.0 | 4436.0 | 3614.9 |
| 55°   | 3210.4 | 3193.4 | 3246.4 | 3492.7 | 3784.5 | 3899.1 | 4140.3 | 4356.6 | 4672.1 | 4558.6 | 3653.2 |
| 57.5° | 3376.1 | 3348.0 | 3398.6 | 3693.1 | 4070.3 | 4205.9 | 4470.0 | 4660.2 | 4850.4 | 4642.4 | 3652.8 |
| 60°   | 3547.3 | 3514.0 | 3574.1 | 3943.8 | 4425.4 | 4582.3 | 4827.5 | 4865.4 | 5016.8 | 4684.7 | 3625.9 |
| 62.5° | 3690.4 | 3670.6 | 3760.0 | 4211.9 | 4821.9 | 4976.1 | 5097.5 | 5052.0 | 5157.2 | 4717.6 | 3563.1 |
| 65°   | 3841.8 | 3843.0 | 3987.3 | 4524.6 | 5243.4 | 5347.4 | 5357.7 | 5294.0 | 5274.6 | 4710.8 | 3350.4 |
| 67.5° | 4046.6 | 4065.6 | 4306.4 | 4949.2 | 5653.4 | 5733.7 | 5732.9 | 5556.1 | 5360.4 | 4443.6 | 2878.7 |
| 70°   | 4263.3 | 4307.9 | 4674.1 | 5435.1 | 6100.9 | 6182.4 | 6140.5 | 5723.0 | 5047.3 | 3593.1 | 2037.3 |
| 72.5° | 4226.9 | 4304.4 | 4878.5 | 5741.6 | 6422.4 | 6484.5 | 6212.0 | 5313.0 | 3989.3 | 2088.3 | 867.4  |
| 75°   | 3261.0 | 3350.8 | 4473.2 | 5437.9 | 6085.1 | 6029.4 | 5337.5 | 4134.4 | 2180.1 | 582.8  | 195.3  |
| 77.5° | 1722.6 | 1770.5 | 2955.0 | 4142.7 | 4744.8 | 4628.2 | 3760.0 | 2293.5 | 664.6  | 144.3  | 87.8   |
| 80°   | 902.2  | 913.3  | 1287.7 | 2350.5 | 2928.5 | 2929.3 | 2228.3 | 1007.4 | 274.0  | 73.9   | 58.9   |
| 82.5° | 483.1  | 492.6  | 680.4  | 1086.1 | 1534.4 | 1390.9 | 853.2  | 554.3  | 159.3  | 41.9   | 56.5   |
| 85°   | 116.2  | 118.2  | 385.9  | 496.2  | 603.3  | 431.0  | 253.4  | 465.4  | 43.1   | 24.5   | 45.9   |
| 87.5° | 44.7   | 45.5   | 143.1  | 214.7  | 153.8  | 99.6   | 118.6  | 173.6  | 5.5    | 9.5    | 7.1    |
| 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°    | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 | 1750.7 |
| 2.5°  | 1733.3 | 1723.0 | 1697.7 | 1665.7 | 1637.2 | 1616.7 | 1585.8 | 1565.7 | 1552.2 | 1551.8 | 1546.7 |
| 5°    | 1689.4 | 1668.5 | 1613.9 | 1549.1 | 1490.1 | 1437.2 | 1374.7 | 1325.3 | 1288.5 | 1282.6 | 1269.9 |
| 7.5°  | 1642.4 | 1608.0 | 1524.1 | 1422.9 | 1324.1 | 1223.7 | 1107.0 | 1034.7 | 972.6  | 943.0  | 939.8  |
| 10°   | 1613.5 | 1565.3 | 1446.3 | 1300.0 | 1145.0 | 981.7  | 829.1  | 723.5  | 647.2  | 625.5  | 609.3  |
| 12.5° | 1607.6 | 1543.9 | 1386.2 | 1184.5 | 963.1  | 747.2  | 578.4  | 466.1  | 405.3  | 385.9  | 380.7  |
| 15°   | 1613.5 | 1534.0 | 1335.6 | 1070.3 | 778.9  | 530.2  | 388.3  | 323.0  | 300.1  | 294.6  | 294.2  |
| 17.5° | 1617.1 | 1522.2 | 1278.2 | 943.4  | 600.2  | 378.8  | 297.3  | 278.3  | 274.8  | 274.4  | 275.2  |
| 20°   | 1616.7 | 1504.0 | 1209.8 | 801.8  | 446.4  | 297.7  | 268.9  | 264.9  | 264.1  | 264.5  | 264.1  |
| 22.5° | 1613.9 | 1482.6 | 1134.7 | 655.9  | 337.3  | 266.1  | 256.6  | 254.2  | 253.8  | 253.8  | 253.8  |
| 25°   | 1619.0 | 1465.6 | 1052.1 | 516.4  | 277.9  | 251.5  | 245.5  | 243.5  | 243.2  | 243.2  | 242.4  |
| 27.5° | 1637.6 | 1456.1 | 961.5  | 397.3  | 251.1  | 238.4  | 233.7  | 233.3  | 232.1  | 231.7  | 232.5  |
| 30°   | 1667.7 | 1456.1 | 862.3  | 309.2  | 234.8  | 225.0  | 221.4  | 220.6  | 220.2  | 219.8  | 220.2  |
| 32.5° | 1720.6 | 1467.2 | 754.0  | 257.0  | 219.4  | 209.9  | 207.6  | 208.8  | 207.6  | 207.6  | 207.6  |
| 35°   | 1816.3 | 1500.4 | 640.5  | 224.2  | 203.2  | 195.3  | 192.9  | 194.5  | 193.7  | 193.7  | 193.3  |
| 37.5° | 1955.9 | 1562.1 | 526.2  | 204.4  | 189.0  | 180.7  | 177.5  | 179.9  | 179.1  | 179.1  | 178.7  |
| 40°   | 2125.9 | 1651.9 | 417.5  | 189.4  | 175.1  | 166.5  | 163.7  | 164.9  | 162.9  | 162.9  | 163.7  |
| 42.5° | 2335.8 | 1765.7 | 322.6  | 174.8  | 161.3  | 153.0  | 151.4  | 150.2  | 146.7  | 144.7  | 145.1  |
| 45°   | 2569.1 | 1884.3 | 251.5  | 160.5  | 148.3  | 141.5  | 139.2  | 136.0  | 130.1  | 126.1  | 126.5  |
| 47.5° | 2777.5 | 1975.7 | 204.4  | 146.7  | 136.4  | 131.3  | 127.7  | 121.8  | 113.1  | 108.3  | 108.7  |
| 50°   | 2887.0 | 1989.5 | 174.0  | 132.8  | 125.3  | 120.2  | 115.1  | 106.0  | 95.7   | 90.5   | 90.1   |
| 52.5° | 2915.1 | 1924.7 | 151.4  | 120.2  | 114.3  | 108.3  | 101.6  | 89.4   | 77.9   | 72.4   | 71.6   |
| 55°   | 2925.3 | 1825.8 | 131.3  | 108.3  | 102.4  | 95.7   | 87.0   | 73.1   | 62.5   | 56.9   | 56.5   |
| 57.5° | 2891.3 | 1678.3 | 115.4  | 97.7   | 90.5   | 82.2   | 71.6   | 58.5   | 48.2   | 43.9   | 43.9   |
| 60°   | 2815.8 | 1478.7 | 103.2  | 86.2   | 78.3   | 68.8   | 57.7   | 45.5   | 36.0   | 32.4   | 32.4   |
| 62.5° | 2665.2 | 1220.1 | 91.7   | 74.3   | 66.8   | 56.9   | 46.7   | 34.4   | 25.3   | 23.3   | 23.7   |
| 65°   | 2380.9 | 925.6  | 80.3   | 63.7   | 56.9   | 47.0   | 36.4   | 24.5   | 17.0   | 17.0   | 17.8   |
| 67.5° | 1941.7 | 642.9  | 68.4   | 54.2   | 49.0   | 38.4   | 27.7   | 17.0   | 11.9   | 13.4   | 15.0   |
| 70°   | 1285.3 | 360.6  | 58.5   | 44.7   | 41.9   | 30.4   | 20.6   | 11.5   | 9.5    | 12.7   | 15.4   |
| 72.5° | 485.1  | 140.4  | 49.0   | 36.0   | 36.4   | 23.3   | 14.6   | 8.7    | 8.7    | 13.8   | 18.2   |
| 75°   | 135.2  | 68.8   | 35.2   | 26.5   | 28.5   | 17.0   | 10.7   | 7.5    | 8.3    | 15.8   | 21.3   |
| 77.5° | 79.5   | 50.6   | 22.9   | 15.4   | 19.4   | 11.9   | 7.1    | 5.9    | 7.1    | 13.4   | 20.6   |
| 80°   | 64.0   | 26.9   | 13.4   | 7.9    | 10.7   | 6.7    | 4.7    | 3.6    | 2.0    | 5.1    | 10.7   |
| 82.5° | 64.0   | 16.2   | 6.3    | 5.5    | 5.5    | 3.6    | 2.4    | 1.6    | 0.4    | 0.0    | 2.8    |
| 85°   | 43.1   | 6.7    | 4.0    | 3.6    | 2.8    | 1.2    | 0.8    | 0.4    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.1    | 2.8    | 1.6    | 0.8    | 0.4    | 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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