

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: P386949

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
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  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11145 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

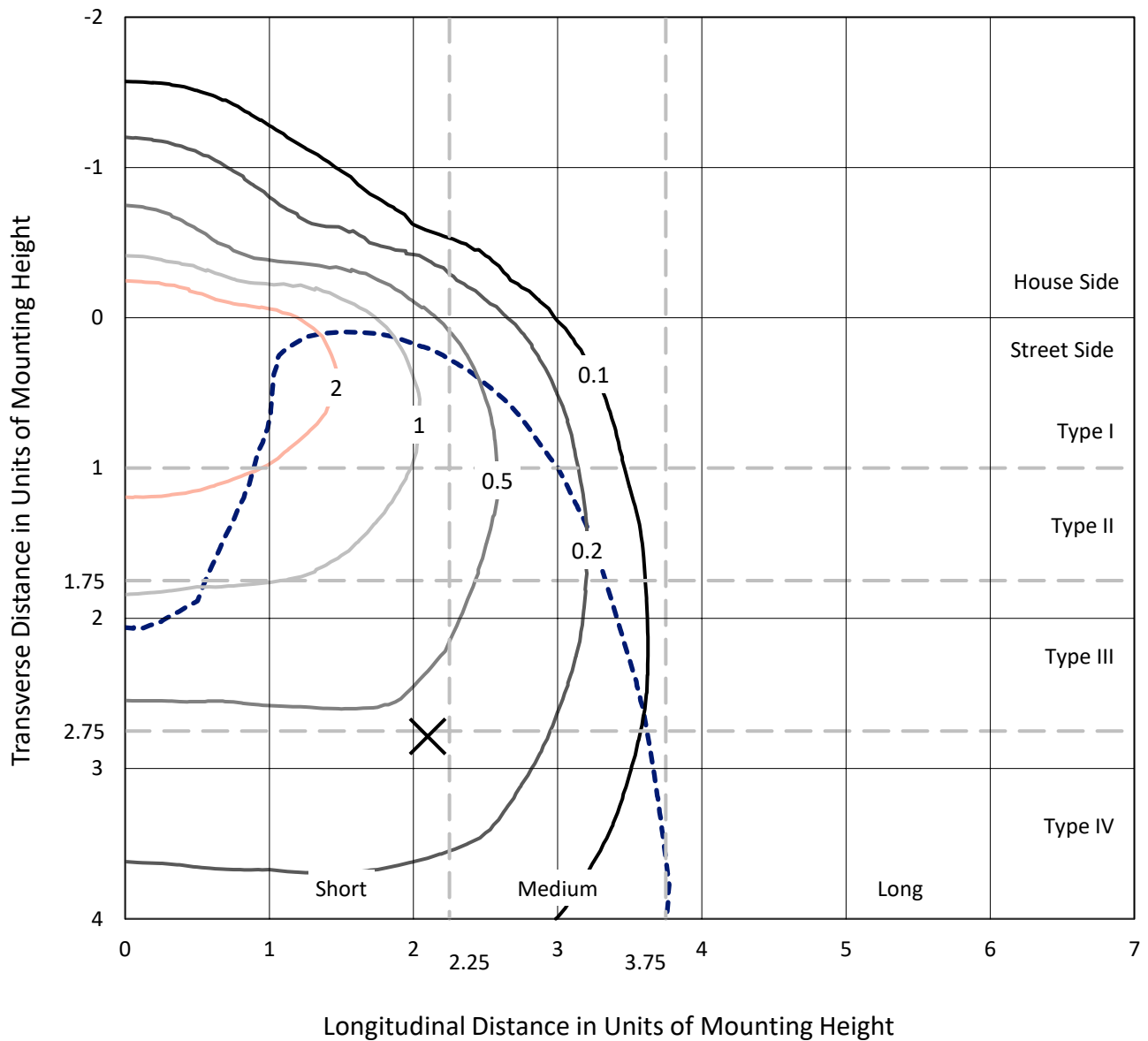
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

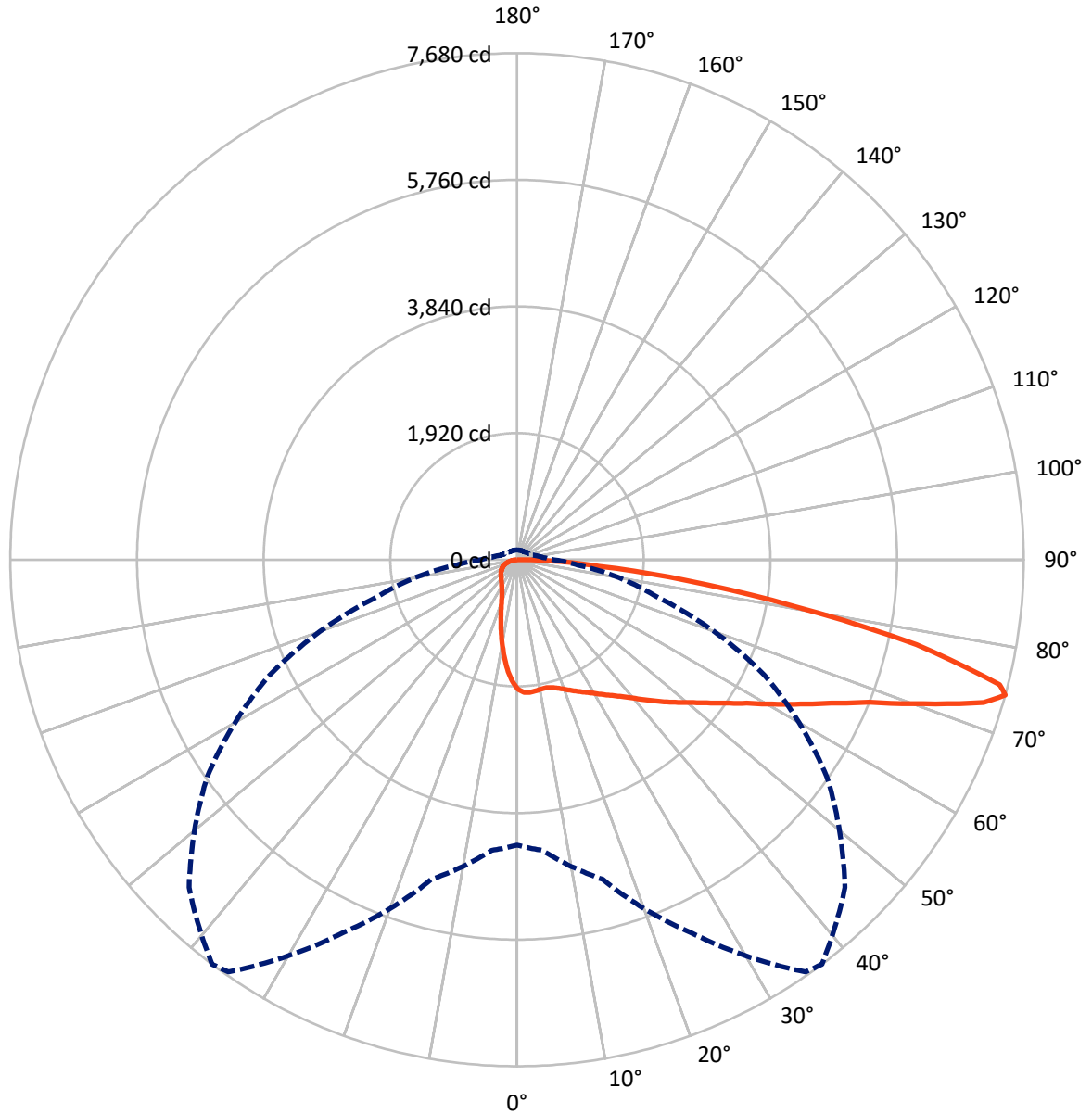
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical



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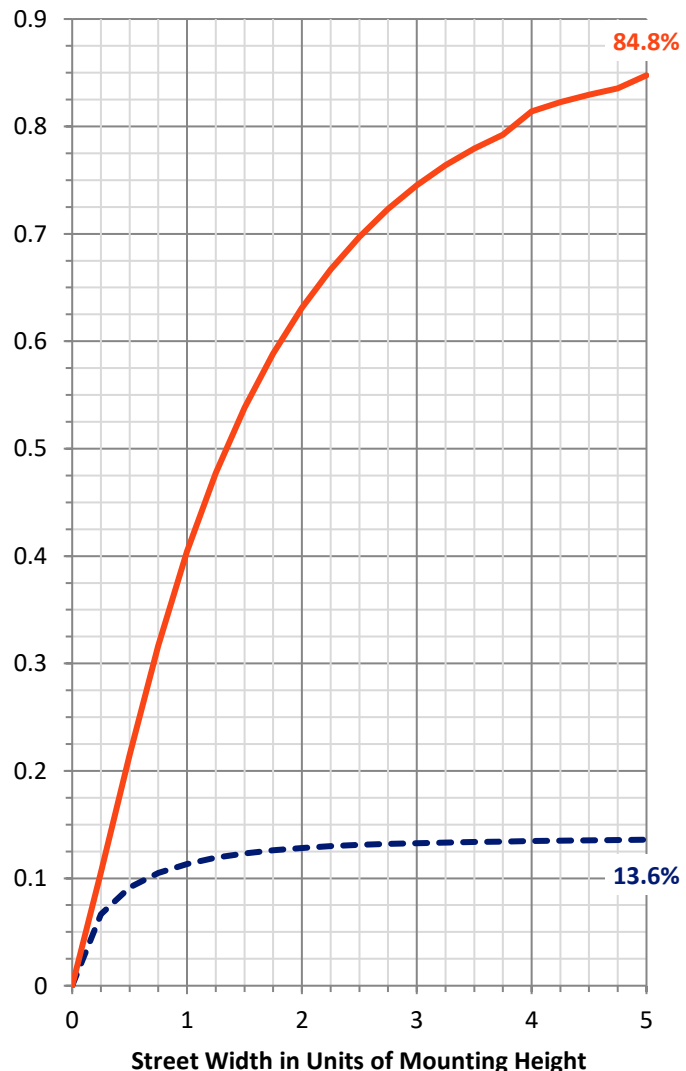
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1533.5   | 0.0    | 1533.5  |
|                    | % Fixture | 13.8     | 0.0    | 13.8    |
| <b>Street Side</b> | Lumens    | 9611.5   | 0.0    | 9611.5  |
|                    | % Fixture | 86.2     | 0.0    | 86.2    |
| <b>Total</b>       | Lumens    | 11145.0  | 0.0    | 11145.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 172.9   | 1.6       |
| 10°-20°   | 443.3   | 4.0       |
| 20°-30°   | 683.0   | 6.1       |
| 30°-40°   | 993.1   | 8.9       |
| 40°-50°   | 1461.7  | 13.1      |
| 50°-60°   | 2052.7  | 18.4      |
| 60°-70°   | 2598.1  | 23.3      |
| 70°-80°   | 2287.8  | 20.5      |
| 80°-90°   | 452.3   | 4.1       |
| 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°    | 11145.0 | 100.0     |
| 0°-180°   | 11145.0 | 100.0     |



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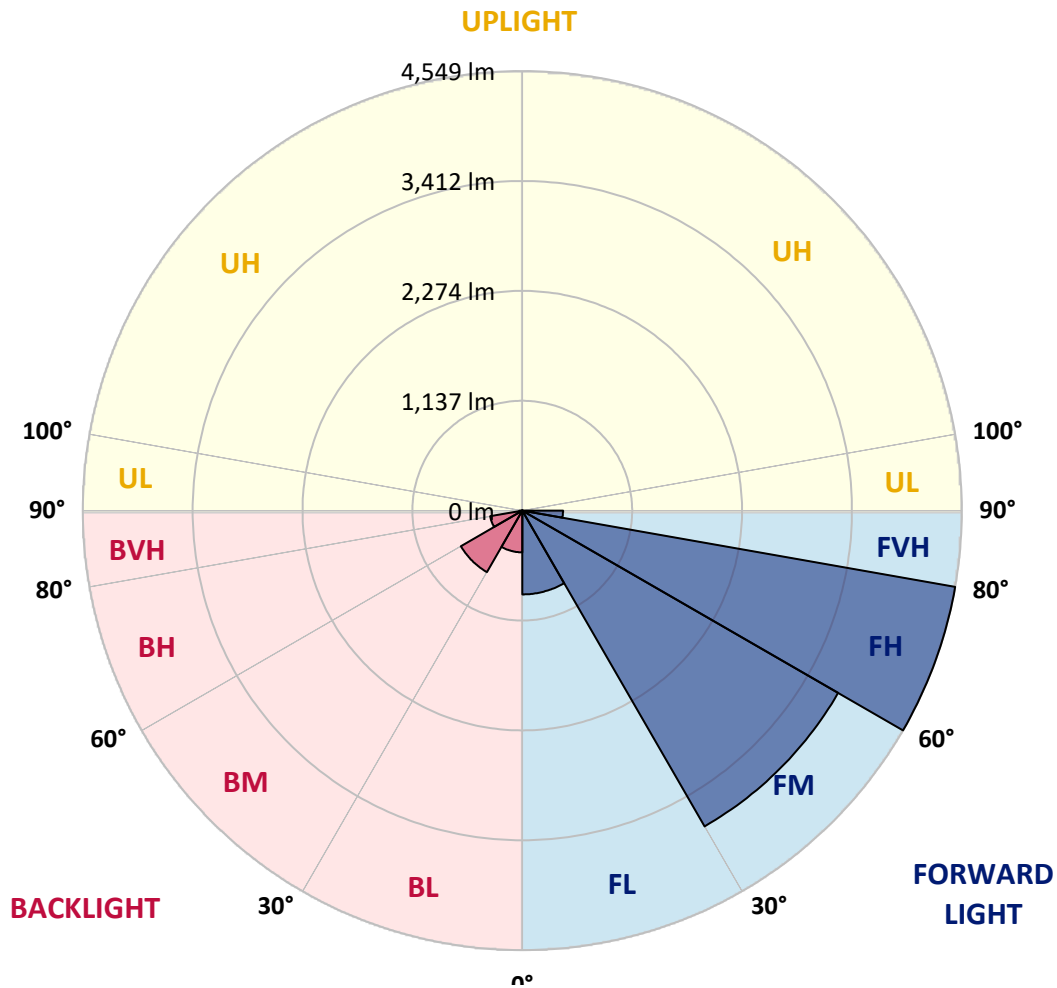
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 867.2  | 7.8       |                         |      |         |
| FM (30°-60°)   | 3773.8 | 33.9      |                         |      |         |
| FH (60°-80°)   | 4548.8 | 40.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 421.7  | 3.8       |                         |      | G3/500  |
| BL (0°-30°)    | 431.9  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 733.8  | 6.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 337.1  | 3.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 30.6   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 37°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 |
| 2.5°  | 2030.8 | 2031.2 | 2030.8 | 2027.7 | 2020.2 | 2014.0 | 2008.9 | 2001.4 | 1984.9 | 1972.3 | 1953.5 |
| 5°    | 2050.1 | 2047.7 | 2046.1 | 2040.3 | 2028.5 | 2021.4 | 2011.6 | 1997.5 | 1970.4 | 1945.3 | 1914.6 |
| 7.5°  | 2041.0 | 2038.3 | 2034.8 | 2027.7 | 2014.3 | 2008.5 | 1994.7 | 1976.3 | 1943.7 | 1910.7 | 1866.7 |
| 10°   | 2013.2 | 2012.4 | 2010.8 | 2009.2 | 1997.9 | 1993.1 | 1980.6 | 1961.0 | 1928.8 | 1888.7 | 1837.3 |
| 12.5° | 1982.2 | 1984.1 | 1990.4 | 1998.6 | 1993.5 | 1991.2 | 1983.3 | 1970.0 | 1937.0 | 1893.8 | 1831.8 |
| 15°   | 1962.5 | 1968.0 | 1984.9 | 2006.5 | 2010.8 | 2010.0 | 2008.1 | 1999.4 | 1964.5 | 1916.6 | 1844.4 |
| 17.5° | 1955.9 | 1964.9 | 1997.1 | 2032.8 | 2045.4 | 2048.1 | 2048.9 | 2034.0 | 1995.1 | 1944.5 | 1857.3 |
| 20°   | 1968.0 | 1979.4 | 2026.5 | 2075.6 | 2095.6 | 2097.2 | 2093.7 | 2067.7 | 2024.2 | 1968.4 | 1864.4 |
| 22.5° | 2004.9 | 2015.1 | 2074.0 | 2129.4 | 2152.1 | 2154.5 | 2143.9 | 2104.6 | 2054.8 | 1996.7 | 1874.2 |
| 25°   | 2076.0 | 2088.5 | 2147.4 | 2202.8 | 2214.6 | 2215.0 | 2199.6 | 2151.0 | 2094.8 | 2036.3 | 1895.4 |
| 27.5° | 2168.6 | 2181.2 | 2234.2 | 2288.4 | 2282.1 | 2278.6 | 2257.8 | 2209.1 | 2147.0 | 2090.9 | 1933.1 |
| 30°   | 2271.9 | 2285.6 | 2335.9 | 2374.3 | 2359.4 | 2352.4 | 2335.5 | 2272.7 | 2219.7 | 2165.5 | 1990.8 |
| 32.5° | 2378.7 | 2391.2 | 2435.2 | 2461.5 | 2442.7 | 2439.5 | 2414.0 | 2356.7 | 2314.3 | 2279.3 | 2084.2 |
| 35°   | 2488.2 | 2497.2 | 2540.4 | 2555.3 | 2530.2 | 2529.4 | 2522.4 | 2469.7 | 2443.1 | 2459.5 | 2220.1 |
| 37.5° | 2600.1 | 2602.4 | 2639.3 | 2640.1 | 2632.7 | 2635.8 | 2643.3 | 2610.3 | 2617.8 | 2669.2 | 2396.7 |
| 40°   | 2699.8 | 2706.1 | 2732.8 | 2741.0 | 2754.0 | 2765.0 | 2802.3 | 2780.7 | 2838.4 | 2929.5 | 2616.6 |
| 42.5° | 2773.6 | 2785.8 | 2828.6 | 2849.8 | 2891.8 | 2909.0 | 2961.7 | 2981.7 | 3097.9 | 3234.5 | 2878.0 |
| 45°   | 2836.0 | 2854.9 | 2923.6 | 2967.2 | 3038.2 | 3068.4 | 3143.8 | 3210.9 | 3391.1 | 3565.4 | 3153.2 |
| 47.5° | 2903.6 | 2927.5 | 3013.5 | 3096.7 | 3193.3 | 3227.4 | 3364.4 | 3464.9 | 3704.0 | 3898.4 | 3412.7 |
| 50°   | 3002.9 | 3021.3 | 3105.3 | 3236.1 | 3356.6 | 3400.6 | 3590.2 | 3734.3 | 4022.0 | 4215.6 | 3637.7 |
| 52.5° | 3141.5 | 3134.4 | 3205.4 | 3388.8 | 3550.5 | 3604.7 | 3831.2 | 4020.8 | 4344.3 | 4502.5 | 3827.7 |
| 55°   | 3280.8 | 3269.0 | 3318.9 | 3548.6 | 3776.7 | 3833.6 | 4096.6 | 4308.6 | 4650.9 | 4760.9 | 3973.3 |
| 57.5° | 3435.9 | 3413.5 | 3455.5 | 3728.8 | 4034.2 | 4102.1 | 4393.8 | 4614.4 | 4952.4 | 4969.7 | 4066.0 |
| 60°   | 3595.7 | 3565.4 | 3612.6 | 3952.1 | 4361.2 | 4441.3 | 4741.6 | 4912.8 | 5236.7 | 5137.0 | 4095.8 |
| 62.5° | 3735.4 | 3714.2 | 3786.9 | 4201.4 | 4729.9 | 4817.8 | 5083.2 | 5230.0 | 5517.0 | 5206.5 | 3988.3 |
| 65°   | 3857.5 | 3861.1 | 3986.7 | 4481.7 | 5140.9 | 5234.7 | 5475.0 | 5621.0 | 5737.6 | 5165.2 | 3736.6 |
| 67.5° | 4003.2 | 4023.2 | 4237.6 | 4850.8 | 5658.3 | 5761.2 | 6045.0 | 6047.4 | 5860.9 | 4923.4 | 3241.2 |
| 70°   | 4215.6 | 4256.8 | 4582.6 | 5362.7 | 6394.0 | 6535.3 | 6754.4 | 6297.8 | 5687.8 | 4267.8 | 2550.2 |
| 72.5° | 4404.0 | 4481.0 | 4949.7 | 5948.4 | 7290.7 | 7397.9 | 7169.4 | 6153.4 | 4964.2 | 3198.4 | 1588.8 |
| 74°   | 4327.5 | 4422.9 | 5016.4 | 6237.0 | 7628.3 | 7679.7 | 7029.2 | 5731.7 | 4139.0 | 2215.0 | 923.4  |
| 75°   | 4162.6 | 4266.2 | 4919.1 | 6234.2 | 7585.5 | 7556.9 | 6690.8 | 5250.0 | 3408.8 | 1510.7 | 614.4  |
| 77.5° | 3359.3 | 3468.9 | 4144.9 | 5343.1 | 6219.7 | 6192.6 | 5139.7 | 3521.9 | 1493.0 | 495.4  | 312.1  |
| 80°   | 1953.1 | 2036.7 | 2573.0 | 3393.1 | 4194.0 | 4243.0 | 3380.1 | 1742.7 | 587.3  | 278.3  | 211.6  |
| 82.5° | 867.6  | 925.3  | 1242.9 | 1732.1 | 2531.0 | 2594.2 | 1770.2 | 913.2  | 362.7  | 169.2  | 127.2  |
| 85°   | 569.2  | 612.0  | 754.5  | 824.8  | 1205.2 | 1248.4 | 866.4  | 711.0  | 239.5  | 93.0   | 93.4   |
| 87.5° | 409.5  | 450.7  | 560.6  | 489.6  | 553.2  | 523.7  | 471.5  | 658.0  | 96.2   | 53.0   | 31.4   |
| 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°    | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 |
| 2.5°  | 1945.3 | 1939.0 | 1924.8 | 1898.1 | 1883.2 | 1870.7 | 1849.9 | 1837.7 | 1832.2 | 1831.8 | 1834.2 |
| 5°    | 1897.0 | 1882.4 | 1845.9 | 1801.2 | 1765.5 | 1732.9 | 1692.4 | 1668.1 | 1650.8 | 1640.6 | 1643.4 |
| 7.5°  | 1840.8 | 1818.1 | 1760.7 | 1689.3 | 1632.0 | 1568.8 | 1506.3 | 1469.0 | 1440.0 | 1418.4 | 1422.3 |
| 10°   | 1802.4 | 1770.9 | 1687.3 | 1584.5 | 1489.1 | 1397.2 | 1311.2 | 1259.8 | 1219.0 | 1187.6 | 1189.9 |
| 12.5° | 1789.4 | 1747.0 | 1631.2 | 1493.8 | 1359.9 | 1234.3 | 1122.0 | 1043.1 | 1001.1 | 965.4  | 968.1  |
| 15°   | 1791.4 | 1734.4 | 1584.1 | 1412.1 | 1243.7 | 1085.5 | 949.3  | 857.0  | 800.1  | 775.4  | 775.7  |
| 17.5° | 1792.9 | 1719.9 | 1534.6 | 1324.6 | 1128.7 | 946.5  | 798.5  | 705.1  | 651.3  | 628.5  | 628.9  |
| 20°   | 1787.8 | 1696.4 | 1473.4 | 1224.1 | 1008.5 | 818.9  | 675.6  | 596.3  | 555.5  | 537.8  | 537.8  |
| 22.5° | 1781.2 | 1668.5 | 1404.3 | 1123.2 | 890.0  | 708.2  | 587.7  | 527.2  | 503.7  | 491.9  | 491.5  |
| 25°   | 1784.3 | 1647.7 | 1333.6 | 1019.5 | 780.8  | 619.9  | 529.2  | 489.2  | 473.5  | 466.0  | 465.6  |
| 27.5° | 1801.2 | 1637.9 | 1268.4 | 916.3  | 685.5  | 553.5  | 489.9  | 461.7  | 451.5  | 446.8  | 446.8  |
| 30°   | 1831.8 | 1637.9 | 1200.5 | 828.4  | 606.1  | 504.5  | 459.7  | 440.5  | 433.4  | 430.3  | 430.3  |
| 32.5° | 1885.2 | 1646.9 | 1135.0 | 741.2  | 542.9  | 466.0  | 434.6  | 421.6  | 416.1  | 414.6  | 414.6  |
| 35°   | 1977.1 | 1677.5 | 1071.0 | 658.8  | 491.9  | 434.6  | 410.6  | 403.2  | 399.3  | 398.9  | 400.0  |
| 37.5° | 2106.2 | 1739.9 | 1010.9 | 597.9  | 455.8  | 409.1  | 390.6  | 384.7  | 382.4  | 384.3  | 385.9  |
| 40°   | 2268.7 | 1824.7 | 956.3  | 542.9  | 428.3  | 388.7  | 372.2  | 368.2  | 367.1  | 369.8  | 372.2  |
| 42.5° | 2465.0 | 1939.4 | 911.6  | 503.3  | 407.1  | 371.4  | 356.5  | 351.8  | 350.6  | 353.7  | 356.9  |
| 45°   | 2677.4 | 2062.6 | 880.2  | 473.8  | 390.6  | 358.4  | 342.7  | 337.6  | 335.3  | 336.8  | 340.4  |
| 47.5° | 2870.6 | 2179.2 | 867.6  | 453.0  | 374.9  | 347.4  | 330.6  | 324.3  | 320.3  | 319.6  | 322.3  |
| 50°   | 3033.5 | 2266.0 | 873.5  | 440.5  | 362.4  | 335.3  | 318.8  | 311.7  | 305.8  | 302.3  | 304.3  |
| 52.5° | 3152.1 | 2320.6 | 879.0  | 435.0  | 352.5  | 321.9  | 305.8  | 299.1  | 291.3  | 285.4  | 285.4  |
| 55°   | 3238.0 | 2333.1 | 866.8  | 430.7  | 345.1  | 307.4  | 291.3  | 285.0  | 277.2  | 270.5  | 269.7  |
| 57.5° | 3271.8 | 2297.8 | 821.7  | 424.4  | 340.0  | 293.7  | 276.0  | 271.3  | 264.6  | 256.8  | 256.4  |
| 60°   | 3226.3 | 2188.7 | 734.5  | 411.0  | 333.3  | 282.3  | 260.7  | 257.5  | 254.4  | 246.9  | 246.5  |
| 62.5° | 3043.3 | 1949.2 | 621.9  | 383.9  | 320.0  | 270.1  | 246.5  | 248.1  | 248.5  | 243.4  | 242.6  |
| 65°   | 2711.6 | 1620.2 | 511.9  | 348.6  | 299.9  | 255.6  | 232.0  | 239.5  | 243.8  | 243.0  | 241.8  |
| 67.5° | 2229.5 | 1261.0 | 433.8  | 311.3  | 273.6  | 235.6  | 216.3  | 225.0  | 228.5  | 231.2  | 230.4  |
| 70°   | 1654.7 | 889.2  | 358.8  | 272.1  | 241.8  | 212.0  | 195.9  | 200.2  | 197.9  | 201.0  | 202.2  |
| 72.5° | 922.6  | 533.5  | 292.5  | 232.8  | 208.9  | 184.5  | 173.1  | 172.3  | 167.2  | 167.2  | 167.2  |
| 74°   | 553.5  | 391.4  | 257.1  | 208.5  | 188.8  | 166.5  | 156.6  | 153.1  | 148.4  | 148.8  | 148.4  |
| 75°   | 445.2  | 336.4  | 235.9  | 192.4  | 174.7  | 155.9  | 146.0  | 141.3  | 137.8  | 137.8  | 137.4  |
| 77.5° | 281.1  | 255.6  | 190.0  | 153.1  | 139.8  | 128.4  | 121.7  | 115.4  | 115.4  | 115.0  | 114.6  |
| 80°   | 212.4  | 203.4  | 148.0  | 115.8  | 107.2  | 98.5   | 94.2   | 91.5   | 91.5   | 92.6   | 92.3   |
| 82.5° | 145.6  | 153.1  | 104.0  | 80.9   | 76.6   | 70.3   | 69.5   | 69.9   | 68.7   | 67.1   | 66.7   |
| 85°   | 106.4  | 115.0  | 70.3   | 51.0   | 46.7   | 42.8   | 45.9   | 47.5   | 45.5   | 42.0   | 40.4   |
| 87.5° | 40.8   | 75.4   | 37.7   | 21.2   | 19.6   | 16.9   | 19.6   | 20.4   | 22.0   | 17.3   | 17.7   |
| 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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