

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: P386387

Luminaire Tested: **GWC-SA2A-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-735-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9137.5 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

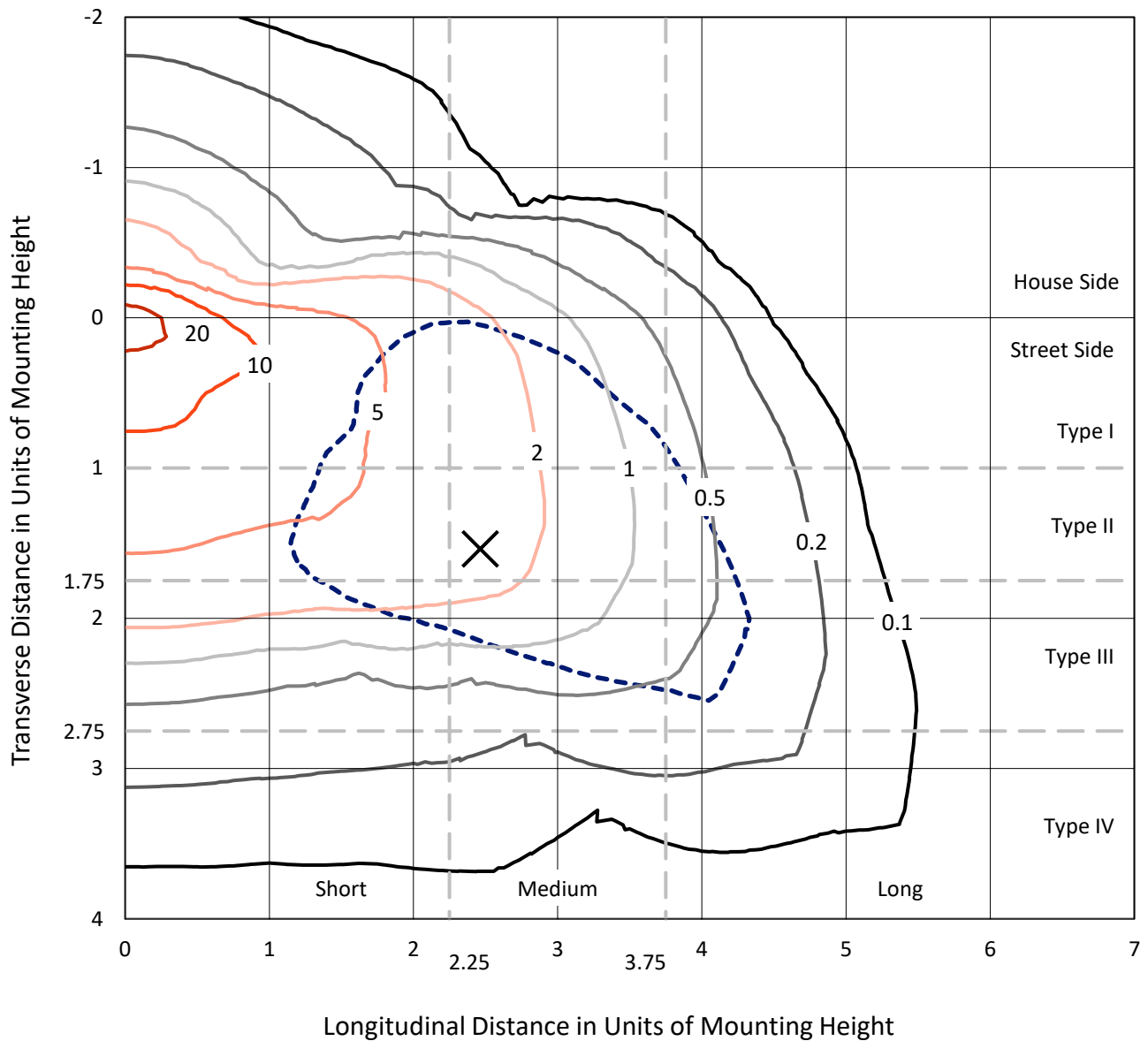
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

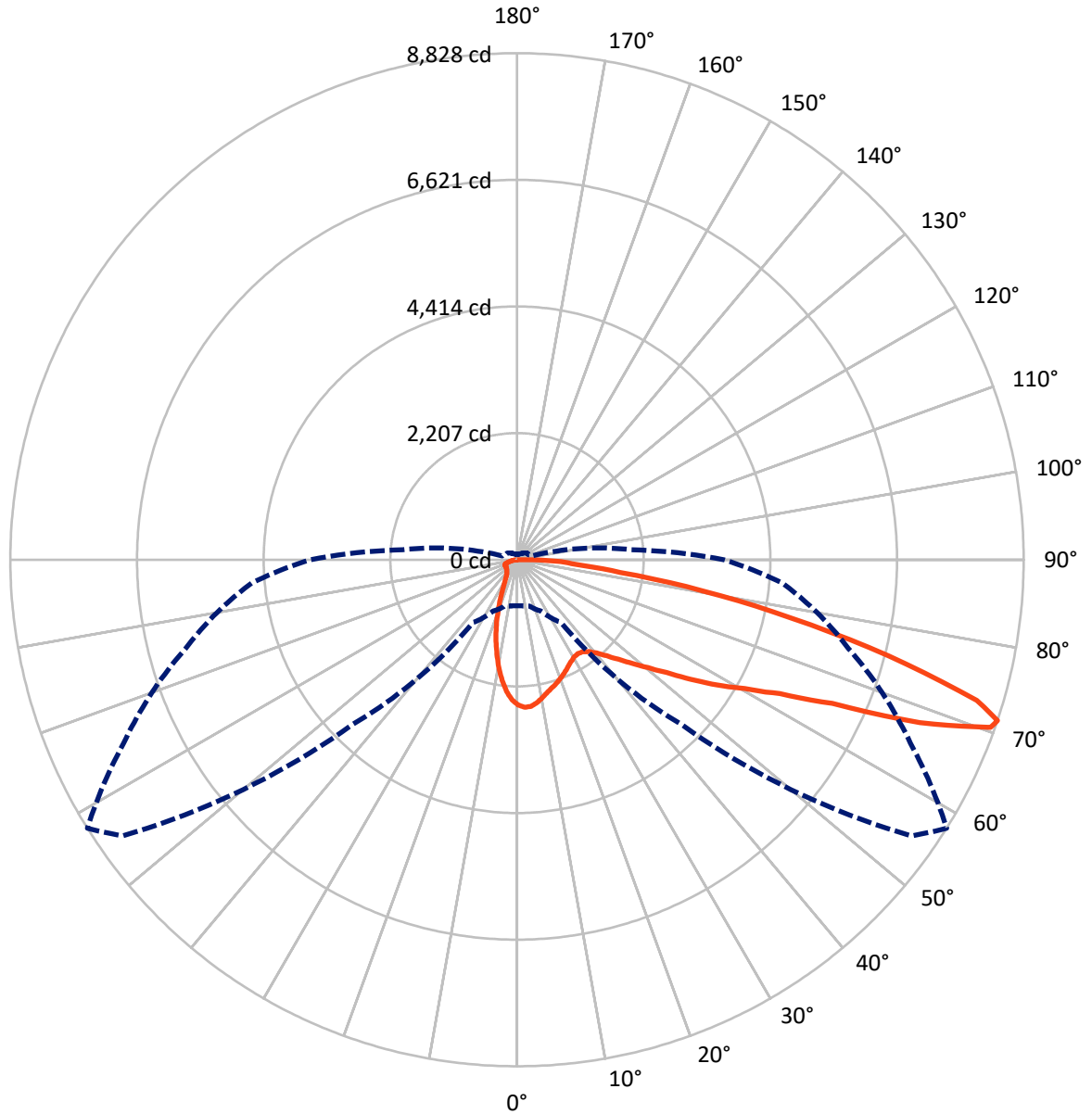
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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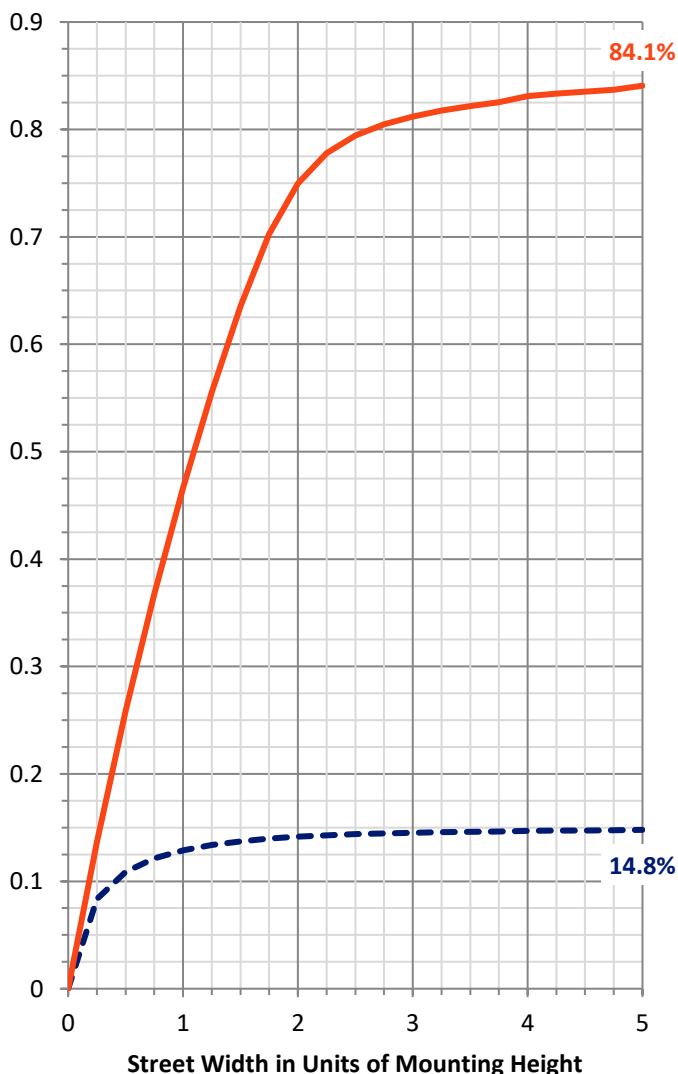
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1366.1   | 0.0    | 1366.1 |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 7771.4   | 0.0    | 7771.4 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 9137.5   | 0.0    | 9137.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 218.4  | 2.4       |
| 10°-20°   | 485.7  | 5.3       |
| 20°-30°   | 617.2  | 6.8       |
| 30°-40°   | 786.2  | 8.6       |
| 40°-50°   | 1114.9 | 12.2      |
| 50°-60°   | 1725.3 | 18.9      |
| 60°-70°   | 2348.8 | 25.7      |
| 70°-80°   | 1566.9 | 17.1      |
| 80°-90°   | 274.0  | 3.0       |
| 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°    | 9137.5 | 100.0     |
| 0°-180°   | 9137.5 | 100.0     |

**Coefficient of Utilization**



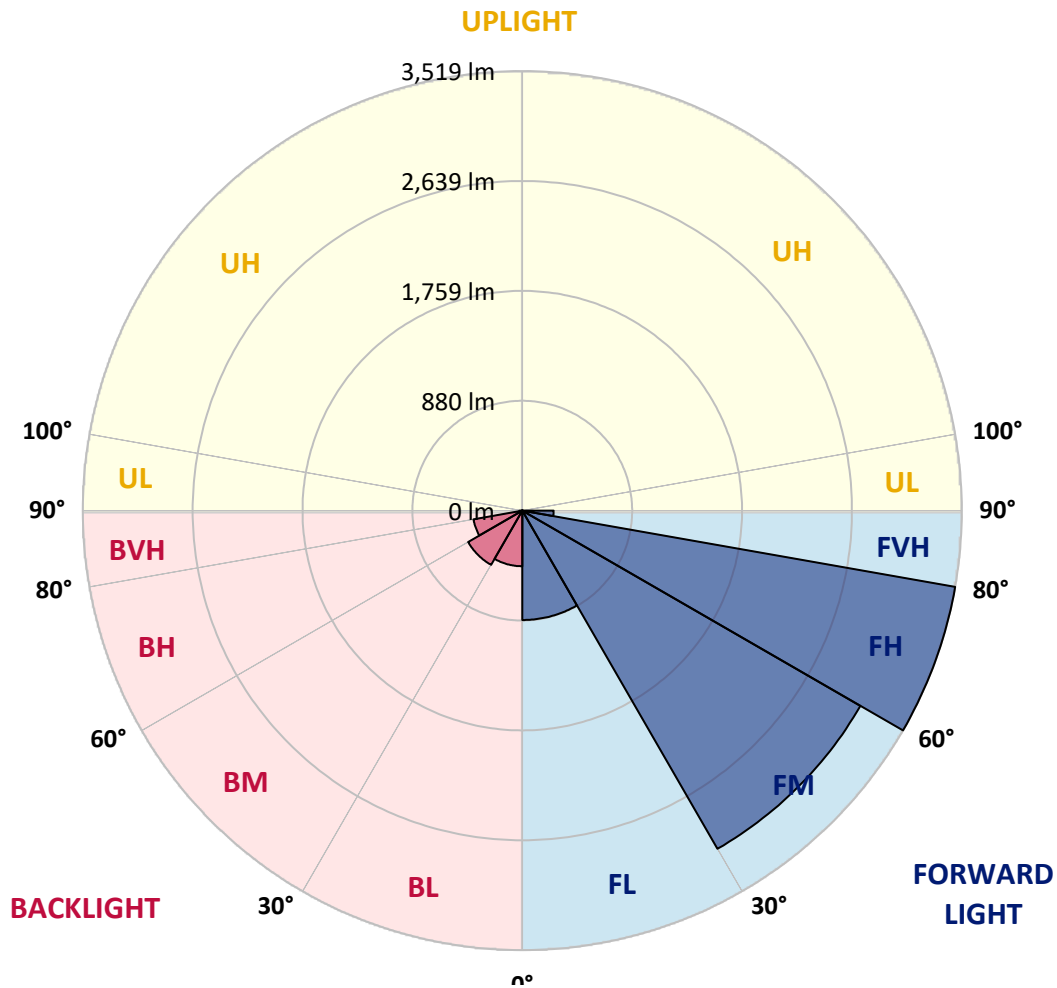
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 876.0  | 9.6       |                         |      |         |
| FM (30°-60°)   | 3125.5 | 34.2      |                         |      |         |
| FH (60°-80°)   | 3518.7 | 38.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 251.2  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 445.3  | 4.9       | B1/500                  |      |         |
| BM (30°-60°)   | 501.0  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 397.0  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 22.8   | 0.2       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 |
| 2.5°  | 2598.8 | 2595.4 | 2596.6 | 2594.0 | 2588.0 | 2582.0 | 2573.1 | 2574.7 | 2562.3 | 2543.8 | 2520.9 |
| 5°    | 2549.8 | 2548.6 | 2558.2 | 2563.5 | 2568.0 | 2564.5 | 2561.9 | 2565.1 | 2547.0 | 2521.5 | 2481.7 |
| 7.5°  | 2447.0 | 2433.0 | 2445.1 | 2463.3 | 2480.5 | 2493.5 | 2510.7 | 2512.9 | 2501.4 | 2474.7 | 2422.5 |
| 10°   | 2301.0 | 2287.5 | 2305.4 | 2333.7 | 2368.1 | 2399.3 | 2434.0 | 2440.4 | 2442.6 | 2418.4 | 2355.1 |
| 12.5° | 2149.4 | 2139.3 | 2157.0 | 2196.9 | 2253.8 | 2301.9 | 2357.3 | 2366.8 | 2386.5 | 2370.3 | 2292.7 |
| 15°   | 2013.9 | 2010.0 | 2031.6 | 2070.8 | 2136.4 | 2209.9 | 2289.8 | 2307.3 | 2340.7 | 2335.3 | 2243.9 |
| 17.5° | 1896.7 | 1895.8 | 1912.3 | 1953.4 | 2025.9 | 2118.9 | 2222.6 | 2252.2 | 2301.9 | 2308.3 | 2203.8 |
| 20°   | 1809.5 | 1807.6 | 1819.0 | 1849.3 | 1924.1 | 2029.5 | 2150.1 | 2190.8 | 2262.4 | 2284.7 | 2162.5 |
| 22.5° | 1762.7 | 1762.4 | 1762.7 | 1777.1 | 1838.1 | 1936.2 | 2079.4 | 2129.0 | 2223.9 | 2265.9 | 2116.6 |
| 25°   | 1754.8 | 1753.8 | 1746.8 | 1745.2 | 1779.9 | 1858.2 | 2009.4 | 2064.1 | 2187.3 | 2252.9 | 2073.1 |
| 27.5° | 1775.5 | 1776.7 | 1767.5 | 1752.5 | 1759.5 | 1806.9 | 1948.6 | 2007.1 | 2158.0 | 2250.3 | 2042.8 |
| 30°   | 1818.4 | 1817.7 | 1809.8 | 1794.2 | 1780.5 | 1787.9 | 1905.3 | 1963.9 | 2138.2 | 2261.5 | 2022.1 |
| 32.5° | 1865.8 | 1869.3 | 1867.7 | 1859.2 | 1838.8 | 1809.5 | 1892.2 | 1949.5 | 2132.5 | 2288.2 | 2013.2 |
| 35°   | 1922.8 | 1926.6 | 1938.1 | 1944.7 | 1920.9 | 1873.8 | 1920.2 | 1969.9 | 2149.1 | 2338.5 | 2027.5 |
| 37.5° | 1977.0 | 1986.8 | 2018.9 | 2047.2 | 2026.8 | 1974.3 | 1994.7 | 2030.0 | 2200.3 | 2417.7 | 2066.0 |
| 40°   | 2039.3 | 2047.9 | 2100.4 | 2160.6 | 2157.4 | 2102.9 | 2114.8 | 2138.2 | 2290.7 | 2531.4 | 2135.7 |
| 42.5° | 2100.8 | 2118.0 | 2194.0 | 2279.3 | 2303.8 | 2255.8 | 2274.6 | 2287.0 | 2418.1 | 2682.0 | 2257.4 |
| 45°   | 2182.5 | 2201.0 | 2306.7 | 2409.5 | 2466.8 | 2439.7 | 2469.7 | 2474.4 | 2578.2 | 2886.9 | 2434.0 |
| 47.5° | 2306.3 | 2327.3 | 2450.5 | 2558.4 | 2646.0 | 2648.8 | 2698.1 | 2696.2 | 2778.1 | 3121.5 | 2656.4 |
| 50°   | 2499.3 | 2529.5 | 2630.4 | 2731.3 | 2837.5 | 2896.8 | 2962.7 | 2953.5 | 3017.7 | 3371.4 | 2912.7 |
| 52.5° | 2752.0 | 2766.0 | 2840.7 | 2915.2 | 3047.3 | 3180.0 | 3274.6 | 3266.3 | 3289.6 | 3628.2 | 3203.6 |
| 55°   | 3014.0 | 3024.4 | 3055.3 | 3096.1 | 3273.6 | 3490.0 | 3689.9 | 3676.9 | 3618.0 | 3894.9 | 3491.1 |
| 57.5° | 3249.5 | 3270.8 | 3292.1 | 3308.9 | 3501.5 | 3814.1 | 4114.9 | 4115.9 | 3974.5 | 4182.7 | 3788.0 |
| 60°   | 3286.0 | 3304.8 | 3445.8 | 3578.9 | 3891.4 | 4246.3 | 4569.7 | 4560.2 | 4343.4 | 4494.9 | 4119.1 |
| 62.5° | 2904.7 | 2947.1 | 3182.6 | 3536.5 | 4267.0 | 5036.9 | 5149.9 | 5138.2 | 4784.5 | 4879.8 | 4504.5 |
| 65°   | 2081.6 | 2129.7 | 2414.0 | 2945.8 | 4085.0 | 5908.1 | 6197.2 | 6038.6 | 5386.1 | 5353.0 | 4955.8 |
| 67.5° | 1200.9 | 1212.4 | 1335.5 | 1762.7 | 3110.3 | 5953.7 | 7794.6 | 7572.8 | 6320.3 | 5890.0 | 5176.7 |
| 70°   | 888.0  | 887.7  | 917.0  | 1084.7 | 1683.1 | 4859.0 | 8554.4 | 8753.4 | 7303.9 | 6066.6 | 4864.5 |
| 71°   | 803.1  | 804.0  | 836.8  | 987.3  | 1333.0 | 4067.1 | 8393.0 | 8828.4 | 7563.0 | 5979.4 | 4638.4 |
| 72.5° | 686.9  | 690.1  | 735.5  | 885.5  | 1121.4 | 2804.7 | 7697.9 | 8377.8 | 7685.8 | 5764.3 | 4284.9 |
| 75°   | 521.1  | 528.4  | 591.3  | 746.3  | 1024.9 | 1422.4 | 5649.7 | 6689.9 | 6827.7 | 5086.3 | 3183.9 |
| 77.5° | 371.7  | 380.1  | 451.4  | 627.7  | 974.2  | 1072.0 | 3783.5 | 4879.8 | 5024.5 | 3259.6 | 1436.1 |
| 80°   | 234.9  | 244.8  | 298.5  | 499.4  | 915.4  | 1017.9 | 2377.6 | 3280.0 | 2739.8 | 1043.0 | 365.4  |
| 82.5° | 137.8  | 145.4  | 185.2  | 326.3  | 747.7  | 980.4  | 1398.9 | 1818.1 | 1066.3 | 315.1  | 166.2  |
| 85°   | 79.8   | 83.4   | 115.5  | 207.9  | 543.0  | 925.3  | 1027.8 | 1016.3 | 462.8  | 154.1  | 78.6   |
| 87.5° | 37.2   | 41.3   | 68.4   | 108.5  | 301.5  | 670.6  | 812.3  | 701.8  | 287.7  | 72.2   | 36.9   |
| 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°    | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 | 2531.7 |
| 2.5°  | 2509.8 | 2504.3 | 2481.7 | 2461.7 | 2440.6 | 2413.3 | 2383.1 | 2379.2 | 2360.8 | 2364.3 | 2357.9 |
| 5°    | 2460.1 | 2446.4 | 2392.0 | 2342.7 | 2284.4 | 2232.2 | 2175.5 | 2149.4 | 2111.9 | 2109.3 | 2099.7 |
| 7.5°  | 2389.1 | 2363.6 | 2279.3 | 2185.7 | 2092.1 | 2003.0 | 1914.9 | 1856.9 | 1797.7 | 1772.5 | 1770.4 |
| 10°   | 2309.2 | 2265.9 | 2141.8 | 2003.4 | 1868.4 | 1738.2 | 1612.2 | 1518.9 | 1434.8 | 1395.1 | 1393.5 |
| 12.5° | 2233.4 | 2169.4 | 1999.2 | 1810.8 | 1626.2 | 1457.5 | 1284.6 | 1162.1 | 1056.7 | 1021.4 | 1006.5 |
| 15°   | 2169.2 | 2079.1 | 1860.4 | 1619.5 | 1395.4 | 1161.1 | 964.4  | 835.5  | 738.1  | 704.4  | 698.0  |
| 17.5° | 2106.8 | 1991.0 | 1718.2 | 1426.3 | 1155.4 | 897.9  | 700.9  | 605.1  | 553.2  | 539.5  | 539.2  |
| 20°   | 2044.7 | 1900.2 | 1569.5 | 1228.6 | 923.3  | 671.6  | 538.8  | 495.9  | 478.4  | 476.8  | 474.3  |
| 22.5° | 1974.3 | 1804.1 | 1413.2 | 1030.3 | 720.6  | 528.0  | 458.0  | 440.9  | 438.6  | 444.3  | 444.3  |
| 25°   | 1908.5 | 1708.6 | 1254.7 | 836.2  | 560.5  | 440.5  | 409.0  | 405.5  | 411.5  | 421.7  | 422.7  |
| 27.5° | 1847.0 | 1616.6 | 1100.0 | 663.7  | 449.1  | 388.0  | 374.9  | 379.0  | 389.9  | 401.7  | 402.0  |
| 30°   | 1796.4 | 1529.7 | 949.8  | 523.0  | 379.4  | 348.9  | 346.6  | 354.9  | 366.6  | 375.9  | 378.1  |
| 32.5° | 1757.3 | 1455.6 | 804.7  | 420.5  | 333.9  | 319.6  | 321.5  | 328.5  | 335.8  | 340.9  | 344.4  |
| 35°   | 1739.2 | 1391.9 | 670.6  | 354.6  | 304.9  | 296.9  | 299.5  | 303.3  | 306.5  | 310.4  | 313.2  |
| 37.5° | 1742.3 | 1342.6 | 551.0  | 313.5  | 285.5  | 281.3  | 281.3  | 281.3  | 281.3  | 283.3  | 283.6  |
| 40°   | 1771.9 | 1314.2 | 453.5  | 287.5  | 272.4  | 268.0  | 264.5  | 261.3  | 258.8  | 260.0  | 259.4  |
| 42.5° | 1847.7 | 1311.7 | 382.2  | 270.8  | 262.0  | 254.7  | 247.6  | 243.2  | 240.0  | 241.2  | 241.9  |
| 45°   | 1976.3 | 1343.5 | 334.2  | 259.1  | 252.1  | 241.0  | 232.0  | 227.2  | 225.1  | 229.2  | 229.8  |
| 47.5° | 2142.8 | 1412.9 | 304.9  | 250.5  | 242.8  | 228.2  | 218.7  | 214.2  | 214.8  | 220.9  | 222.4  |
| 50°   | 2357.3 | 1525.6 | 290.9  | 245.1  | 236.4  | 217.4  | 207.5  | 203.7  | 205.6  | 214.2  | 216.2  |
| 52.5° | 2592.8 | 1687.9 | 292.5  | 243.5  | 232.3  | 209.4  | 199.0  | 194.5  | 197.6  | 205.6  | 207.2  |
| 55°   | 2864.6 | 1883.0 | 318.9  | 245.7  | 226.3  | 204.3  | 191.9  | 184.3  | 186.8  | 194.2  | 195.4  |
| 57.5° | 3166.7 | 2106.5 | 372.1  | 245.1  | 218.7  | 199.5  | 184.6  | 173.1  | 175.1  | 179.5  | 180.8  |
| 60°   | 3481.1 | 2376.4 | 454.5  | 247.0  | 215.1  | 193.8  | 174.7  | 160.4  | 159.8  | 163.6  | 164.2  |
| 62.5° | 3858.7 | 2688.6 | 548.7  | 248.3  | 217.4  | 186.6  | 161.7  | 147.7  | 145.8  | 146.7  | 147.4  |
| 65°   | 4247.6 | 2914.6 | 513.4  | 243.2  | 224.4  | 180.5  | 150.2  | 135.3  | 131.8  | 131.1  | 131.4  |
| 67.5° | 4259.7 | 2672.4 | 360.0  | 233.0  | 227.2  | 177.3  | 141.7  | 124.8  | 119.0  | 116.8  | 116.5  |
| 70°   | 3820.1 | 2171.0 | 280.4  | 222.2  | 215.8  | 172.2  | 133.7  | 116.2  | 107.6  | 104.1  | 103.8  |
| 71°   | 3605.6 | 1998.6 | 265.8  | 216.7  | 207.2  | 167.1  | 130.2  | 112.4  | 103.4  | 99.7   | 99.0   |
| 72.5° | 3269.2 | 1791.7 | 247.9  | 208.2  | 190.7  | 154.1  | 123.5  | 106.9  | 97.7   | 93.3   | 92.3   |
| 75°   | 2346.1 | 1171.6 | 213.0  | 185.5  | 157.9  | 122.9  | 108.2  | 96.1   | 88.2   | 82.8   | 82.1   |
| 77.5° | 904.0  | 466.3  | 161.0  | 154.3  | 121.0  | 96.1   | 89.1   | 83.0   | 77.3   | 72.0   | 71.6   |
| 80°   | 279.5  | 208.5  | 117.4  | 116.2  | 87.6   | 71.6   | 69.4   | 67.8   | 65.6   | 59.8   | 58.5   |
| 82.5° | 149.3  | 119.7  | 80.9   | 75.2   | 57.3   | 47.7   | 50.3   | 50.9   | 51.3   | 45.2   | 44.5   |
| 85°   | 71.3   | 63.3   | 45.6   | 42.6   | 33.4   | 26.8   | 30.9   | 33.4   | 33.7   | 27.7   | 25.7   |
| 87.5° | 34.1   | 33.1   | 21.3   | 16.3   | 12.4   | 8.9    | 10.8   | 13.3   | 14.7   | 10.5   | 9.2    |
| 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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