

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: P386582

Luminaire Tested: **GWC-SA2B-730-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2B-730-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9280 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

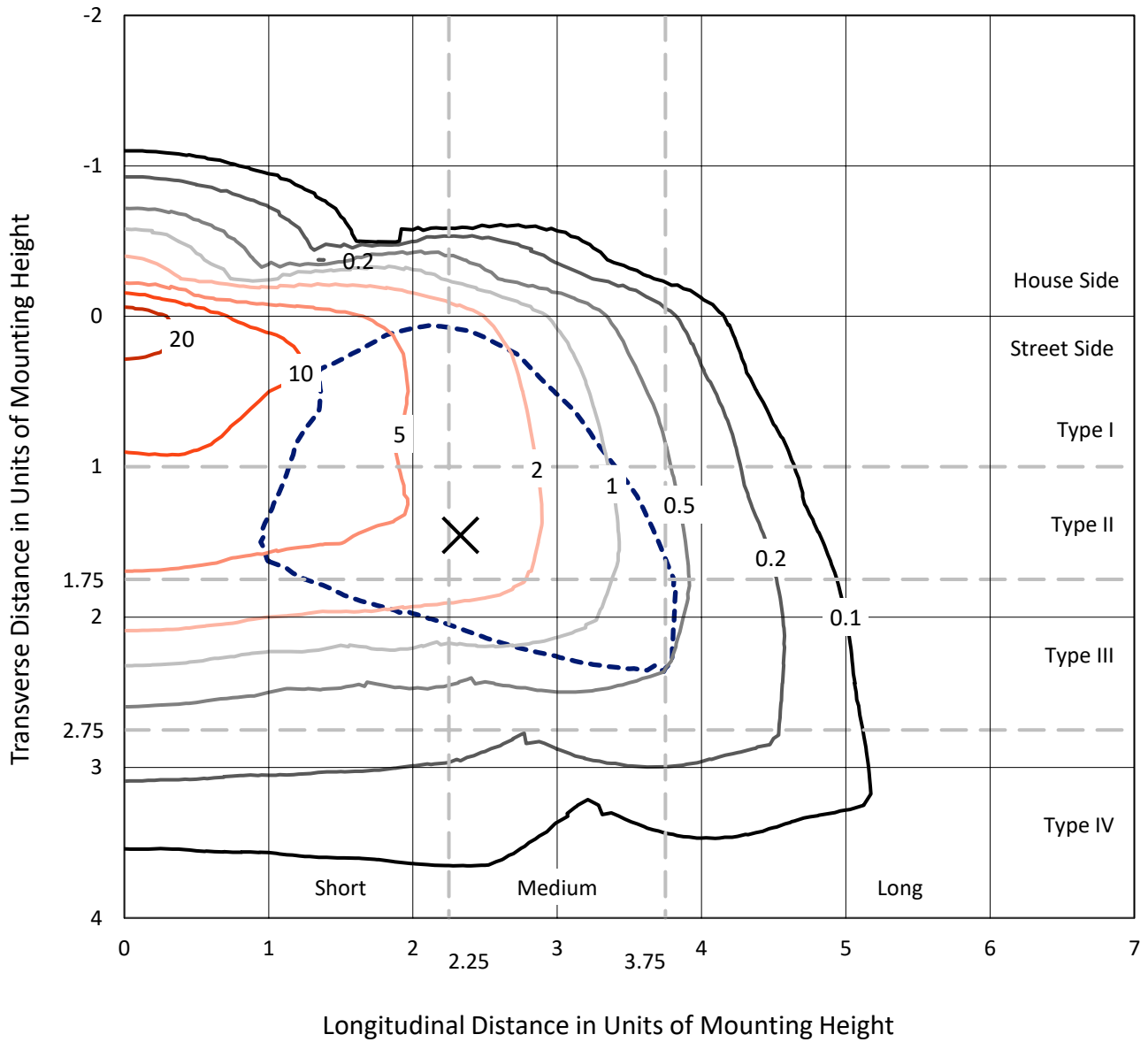
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

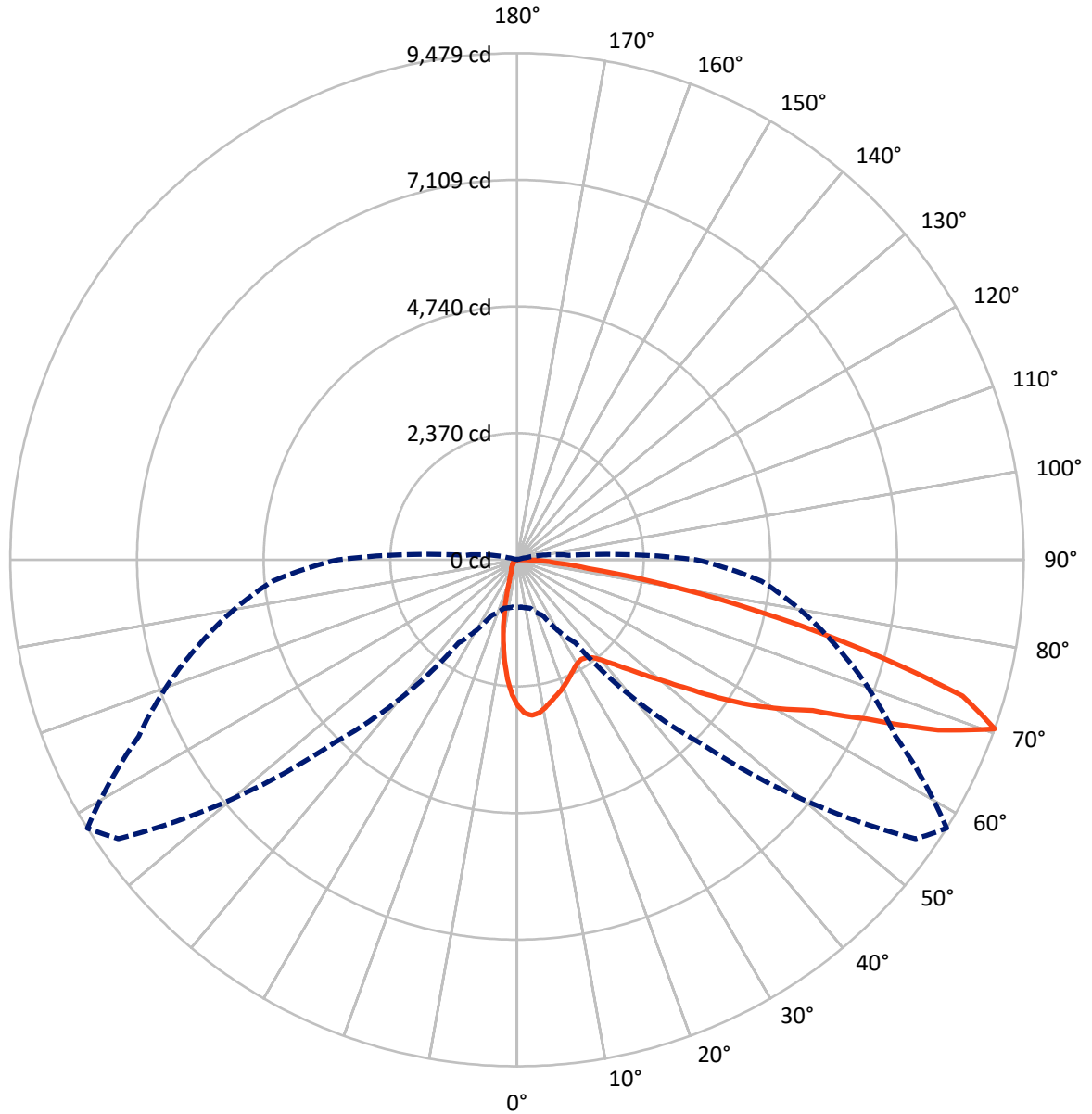
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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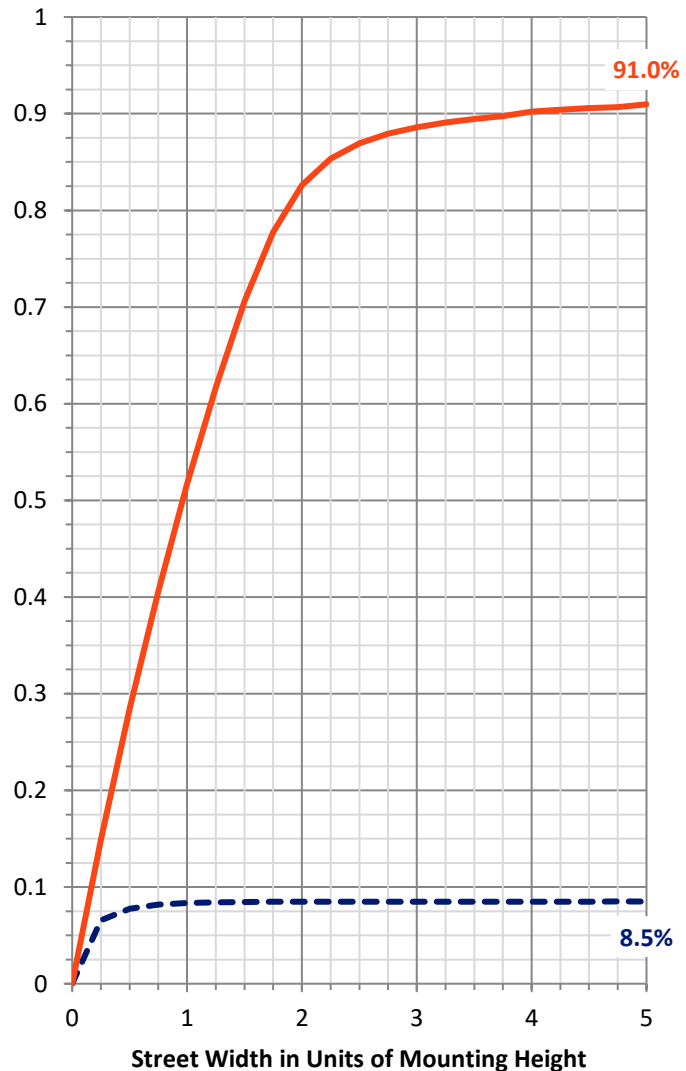
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 794.2    | 0.0    | 794.2  |
|                    | % Fixture | 8.6      | 0.0    | 8.6    |
| <b>Street Side</b> | Lumens    | 8485.8   | 0.0    | 8485.8 |
|                    | % Fixture | 91.4     | 0.0    | 91.4   |
| <b>Total</b>       | Lumens    | 9280.0   | 0.0    | 9280.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 224.2  | 2.4       |
| 10°-20°   | 470.5  | 5.1       |
| 20°-30°   | 618.5  | 6.7       |
| 30°-40°   | 819.1  | 8.8       |
| 40°-50°   | 1224.4 | 13.2      |
| 50°-60°   | 1961.4 | 21.1      |
| 60°-70°   | 2472.3 | 26.6      |
| 70°-80°   | 1333.6 | 14.4      |
| 80°-90°   | 156.1  | 1.7       |
| 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°    | 9280.0 | 100.0     |
| 0°-180°   | 9280.0 | 100.0     |



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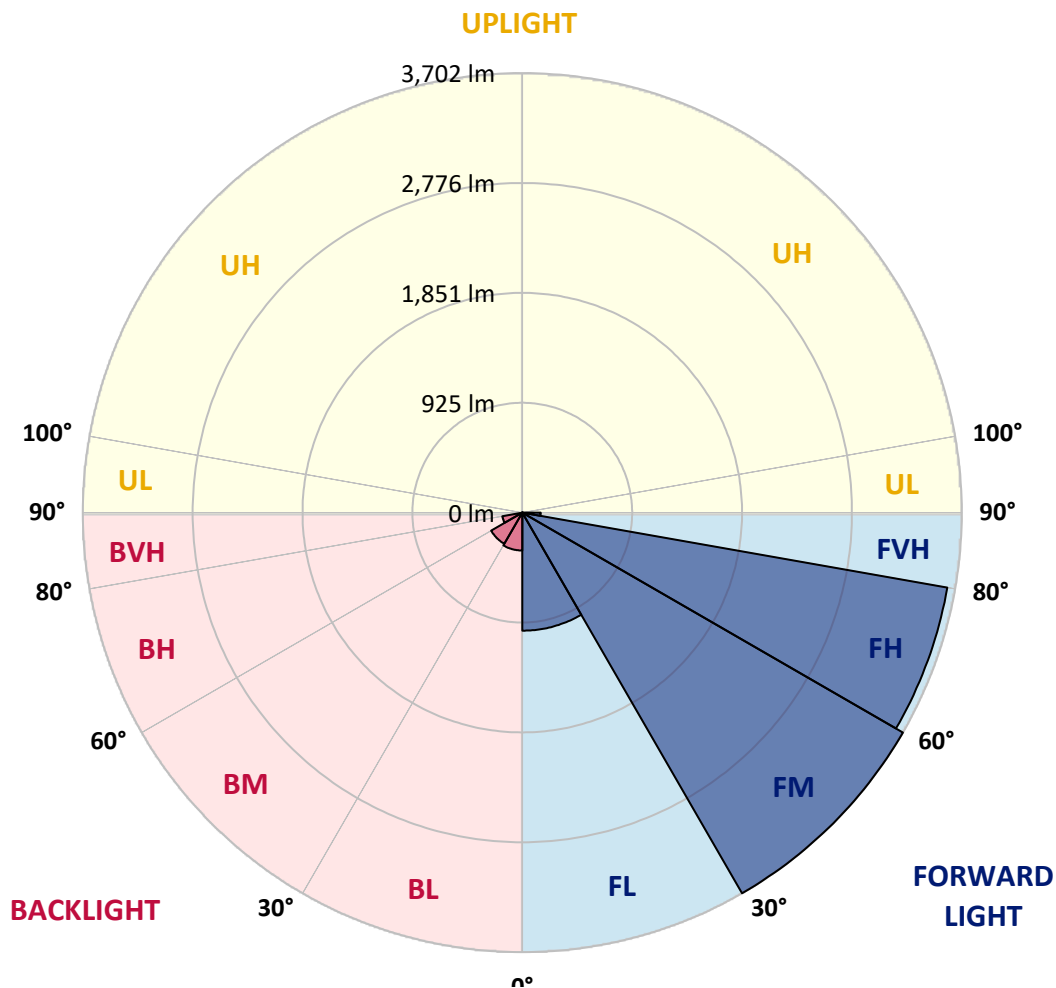
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 994.1  | 10.7      |                         |      |         |
| FM (30°-60°)   | 3701.9 | 39.9      |                         |      |         |
| FH (60°-80°)   | 3635.1 | 39.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 154.7  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 319.1  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 303.0  | 3.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 170.8  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.3    | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 |
| 2.5°  | 2968.5 | 2961.2 | 2958.5 | 2953.9 | 2936.1 | 2918.8 | 2884.4 | 2874.8 | 2853.2 | 2801.9 | 2747.4 |
| 5°    | 2970.9 | 2970.5 | 2978.6 | 2976.7 | 2970.5 | 2962.4 | 2937.7 | 2924.9 | 2888.3 | 2815.0 | 2715.4 |
| 7.5°  | 2827.7 | 2835.0 | 2853.2 | 2867.8 | 2884.8 | 2906.8 | 2909.9 | 2897.5 | 2867.4 | 2788.3 | 2656.4 |
| 10°   | 2635.5 | 2647.1 | 2672.6 | 2701.5 | 2745.9 | 2789.9 | 2829.2 | 2827.7 | 2817.3 | 2739.3 | 2585.4 |
| 12.5° | 2443.0 | 2456.5 | 2485.8 | 2528.7 | 2591.5 | 2663.3 | 2733.6 | 2743.2 | 2760.6 | 2695.3 | 2519.8 |
| 15°   | 2274.4 | 2285.9 | 2314.9 | 2367.4 | 2445.3 | 2541.8 | 2644.8 | 2662.5 | 2707.3 | 2661.0 | 2465.0 |
| 17.5° | 2131.2 | 2138.5 | 2159.8 | 2218.0 | 2308.3 | 2425.2 | 2559.1 | 2593.9 | 2660.6 | 2634.0 | 2417.5 |
| 20°   | 2031.3 | 2032.4 | 2046.3 | 2087.2 | 2177.5 | 2308.3 | 2470.4 | 2520.2 | 2611.2 | 2610.8 | 2368.5 |
| 22.5° | 1981.9 | 1978.0 | 1980.7 | 2004.2 | 2070.6 | 2196.8 | 2381.6 | 2440.7 | 2566.9 | 2591.2 | 2318.7 |
| 25°   | 1972.6 | 1969.5 | 1961.8 | 1964.9 | 2005.0 | 2099.2 | 2292.1 | 2360.4 | 2527.9 | 2579.2 | 2275.5 |
| 27.5° | 2001.5 | 2004.6 | 1991.5 | 1977.6 | 1980.7 | 2035.9 | 2212.6 | 2291.7 | 2496.2 | 2579.2 | 2245.0 |
| 30°   | 2059.8 | 2061.4 | 2051.7 | 2033.6 | 2009.3 | 2018.1 | 2157.4 | 2236.5 | 2480.4 | 2597.0 | 2225.7 |
| 32.5° | 2124.3 | 2132.7 | 2131.6 | 2116.9 | 2082.2 | 2046.3 | 2144.3 | 2216.5 | 2479.3 | 2636.3 | 2223.8 |
| 35°   | 2204.1 | 2213.8 | 2230.0 | 2226.9 | 2190.6 | 2131.6 | 2189.1 | 2245.8 | 2502.0 | 2701.1 | 2244.6 |
| 37.5° | 2289.0 | 2303.7 | 2338.4 | 2355.0 | 2331.5 | 2264.7 | 2289.4 | 2329.9 | 2563.0 | 2806.1 | 2297.5 |
| 40°   | 2371.2 | 2387.8 | 2451.1 | 2516.3 | 2498.6 | 2429.9 | 2441.4 | 2473.9 | 2671.4 | 2957.0 | 2397.8 |
| 42.5° | 2451.9 | 2476.6 | 2569.6 | 2676.8 | 2698.0 | 2643.3 | 2649.4 | 2675.3 | 2832.3 | 3164.6 | 2561.8 |
| 45°   | 2548.3 | 2576.1 | 2713.9 | 2846.2 | 2903.0 | 2879.0 | 2905.3 | 2922.2 | 3042.6 | 3438.9 | 2782.9 |
| 47.5° | 2689.9 | 2722.0 | 2891.0 | 3041.9 | 3141.4 | 3156.9 | 3209.7 | 3220.9 | 3308.5 | 3758.4 | 3071.2 |
| 50°   | 2966.2 | 2975.1 | 3127.9 | 3264.9 | 3408.4 | 3501.1 | 3561.3 | 3569.7 | 3630.3 | 4107.7 | 3431.2 |
| 52.5° | 3313.9 | 3319.7 | 3406.1 | 3498.0 | 3661.2 | 3850.3 | 3991.1 | 4003.1 | 4015.8 | 4448.0 | 3786.6 |
| 55°   | 3659.3 | 3658.5 | 3715.6 | 3769.6 | 3956.4 | 4231.1 | 4536.8 | 4544.1 | 4452.6 | 4771.0 | 4058.3 |
| 57.5° | 3875.0 | 3895.8 | 3982.6 | 4052.1 | 4312.9 | 4665.2 | 5089.3 | 5116.3 | 4911.4 | 5010.2 | 4326.8 |
| 60°   | 3806.3 | 3816.3 | 4008.9 | 4265.9 | 4757.1 | 5282.3 | 5648.5 | 5655.4 | 5256.4 | 5249.1 | 4666.4 |
| 62.5° | 3242.9 | 3248.3 | 3550.8 | 4080.6 | 4982.1 | 6082.6 | 6323.0 | 6209.9 | 5653.1 | 5580.5 | 5072.7 |
| 65°   | 2222.6 | 2257.8 | 2510.5 | 3165.3 | 4568.8 | 6584.6 | 7367.2 | 7180.0 | 6257.8 | 6058.3 | 5440.1 |
| 67.5° | 1308.9 | 1301.6 | 1426.6 | 1908.9 | 3355.6 | 6251.2 | 8688.0 | 8502.0 | 7082.4 | 6378.2 | 5332.4 |
| 70°   | 894.1  | 889.1  | 936.9  | 1155.7 | 1894.3 | 4849.3 | 9103.6 | 9479.1 | 7810.5 | 6162.8 | 4589.2 |
| 72.5° | 638.2  | 640.9  | 711.6  | 897.9  | 1189.3 | 2825.4 | 7828.7 | 8717.3 | 7582.5 | 5372.6 | 3488.3 |
| 75°   | 433.3  | 440.7  | 541.8  | 736.6  | 1042.6 | 1437.4 | 5555.5 | 6626.7 | 6174.4 | 3904.7 | 2005.0 |
| 77.5° | 233.1  | 241.2  | 360.4  | 593.5  | 942.7  | 998.6  | 3573.6 | 4560.7 | 3878.4 | 1755.4 | 581.1  |
| 80°   | 97.2   | 101.9  | 168.6  | 431.4  | 814.6  | 877.1  | 2102.6 | 2765.6 | 1652.7 | 346.1  | 129.7  |
| 82.5° | 42.1   | 44.4   | 70.2   | 257.4  | 608.9  | 740.5  | 1113.3 | 1330.5 | 500.9  | 76.0   | 65.2   |
| 85°   | 8.1    | 8.5    | 28.9   | 136.2  | 388.6  | 417.9  | 721.6  | 707.3  | 225.0  | 32.8   | 47.5   |
| 87.5° | 0.0    | 0.0    | 6.9    | 42.8   | 114.2  | 227.7  | 440.3  | 434.9  | 76.4   | 15.8   | 17.8   |
| 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°    | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 | 2741.3 |
| 2.5°  | 2719.7 | 2693.0 | 2637.1 | 2568.0 | 2515.1 | 2456.9 | 2410.6 | 2351.9 | 2326.5 | 2327.6 | 2313.7 |
| 5°    | 2658.7 | 2603.9 | 2480.0 | 2323.7 | 2203.4 | 2079.1 | 1972.2 | 1865.7 | 1802.8 | 1782.4 | 1763.1 |
| 7.5°  | 2571.5 | 2484.7 | 2287.1 | 2046.3 | 1842.6 | 1643.4 | 1470.2 | 1317.8 | 1221.3 | 1174.2 | 1156.9 |
| 10°   | 2473.1 | 2351.1 | 2065.2 | 1748.0 | 1457.1 | 1187.7 | 963.1  | 767.9  | 689.9  | 637.1  | 623.6  |
| 12.5° | 2386.6 | 2221.5 | 1848.3 | 1442.0 | 1096.7 | 771.8  | 557.6  | 436.0  | 383.2  | 362.3  | 358.9  |
| 15°   | 2305.2 | 2100.3 | 1639.6 | 1165.0 | 759.4  | 475.0  | 354.6  | 313.3  | 301.0  | 297.5  | 297.5  |
| 17.5° | 2228.4 | 1984.9 | 1435.5 | 892.1  | 502.4  | 333.0  | 293.7  | 284.4  | 280.5  | 280.1  | 280.5  |
| 20°   | 2148.2 | 1869.6 | 1234.8 | 653.7  | 350.8  | 282.1  | 271.3  | 266.3  | 265.1  | 265.1  | 265.1  |
| 22.5° | 2071.4 | 1754.2 | 1039.6 | 466.9  | 281.3  | 257.4  | 252.0  | 248.5  | 247.3  | 247.0  | 246.2  |
| 25°   | 1997.7 | 1644.6 | 848.9  | 329.9  | 247.0  | 235.8  | 231.1  | 226.5  | 223.0  | 221.1  | 219.9  |
| 27.5° | 1937.1 | 1547.0 | 671.4  | 264.7  | 223.0  | 213.4  | 207.6  | 200.7  | 192.2  | 188.3  | 186.8  |
| 30°   | 1888.9 | 1457.8 | 517.5  | 223.4  | 200.7  | 191.0  | 182.1  | 170.2  | 157.8  | 151.3  | 150.9  |
| 32.5° | 1851.1 | 1370.2 | 392.8  | 197.6  | 180.6  | 168.6  | 155.9  | 140.8  | 126.6  | 119.2  | 118.9  |
| 35°   | 1832.5 | 1293.1 | 300.2  | 178.7  | 162.8  | 147.8  | 132.0  | 115.4  | 101.5  | 94.5   | 93.8   |
| 37.5° | 1844.9 | 1227.9 | 234.2  | 162.8  | 147.8  | 130.4  | 111.9  | 94.5   | 82.2   | 76.0   | 75.6   |
| 40°   | 1890.0 | 1186.2 | 190.2  | 149.3  | 135.1  | 113.8  | 93.8   | 77.6   | 67.1   | 62.1   | 61.7   |
| 42.5° | 1986.1 | 1170.7 | 162.5  | 138.1  | 122.7  | 98.4   | 77.9   | 64.1   | 54.4   | 50.9   | 50.2   |
| 45°   | 2146.6 | 1193.5 | 143.5  | 127.3  | 110.0  | 83.7   | 64.4   | 52.5   | 44.0   | 41.3   | 40.9   |
| 47.5° | 2360.4 | 1253.3 | 130.0  | 116.9  | 98.4   | 70.6   | 53.6   | 42.4   | 35.9   | 33.2   | 32.8   |
| 50°   | 2635.9 | 1348.3 | 118.9  | 106.5  | 87.6   | 59.8   | 44.4   | 33.6   | 27.8   | 25.9   | 25.9   |
| 52.5° | 2935.7 | 1461.3 | 108.8  | 96.9   | 76.8   | 49.8   | 35.9   | 25.9   | 22.0   | 19.7   | 19.7   |
| 55°   | 3183.5 | 1560.1 | 98.0   | 89.5   | 63.7   | 41.3   | 27.4   | 19.7   | 16.2   | 15.0   | 15.0   |
| 57.5° | 3430.8 | 1665.4 | 85.7   | 76.8   | 50.9   | 33.6   | 20.8   | 14.7   | 12.0   | 11.2   | 11.2   |
| 60°   | 3751.5 | 1794.3 | 73.7   | 62.5   | 40.1   | 25.5   | 15.4   | 10.4   | 8.9    | 8.5    | 8.5    |
| 62.5° | 4104.2 | 1870.0 | 62.9   | 50.2   | 31.3   | 18.9   | 11.2   | 6.9    | 6.6    | 6.6    | 6.2    |
| 65°   | 4319.9 | 1763.1 | 52.9   | 40.1   | 24.3   | 14.3   | 7.3    | 5.0    | 5.8    | 5.4    | 4.6    |
| 67.5° | 4044.8 | 1380.3 | 43.2   | 31.3   | 18.9   | 10.8   | 4.6    | 3.5    | 6.2    | 5.0    | 3.9    |
| 70°   | 3349.0 | 966.2  | 33.6   | 22.0   | 15.0   | 9.3    | 3.1    | 2.3    | 6.6    | 5.0    | 3.1    |
| 72.5° | 2506.3 | 646.7  | 26.6   | 14.7   | 11.2   | 8.1    | 2.7    | 1.2    | 5.8    | 4.2    | 2.7    |
| 75°   | 1369.5 | 260.5  | 21.2   | 9.3    | 6.9    | 5.8    | 1.9    | 0.8    | 3.9    | 3.1    | 1.9    |
| 77.5° | 360.4  | 68.7   | 15.4   | 6.2    | 3.9    | 2.3    | 1.2    | 0.4    | 1.9    | 1.5    | 0.8    |
| 80°   | 91.8   | 26.6   | 10.0   | 4.2    | 2.7    | 1.2    | 0.0    | 0.0    | 0.4    | 0.0    | 0.0    |
| 82.5° | 49.0   | 11.2   | 6.2    | 3.1    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 37.0   | 7.3    | 3.5    | 1.9    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.3   | 2.3    | 1.2    | 0.0    | 0.0    | 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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