

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: P386804

Luminaire Tested: **GWC-SA2C-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2C-730-U-SL2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11134 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

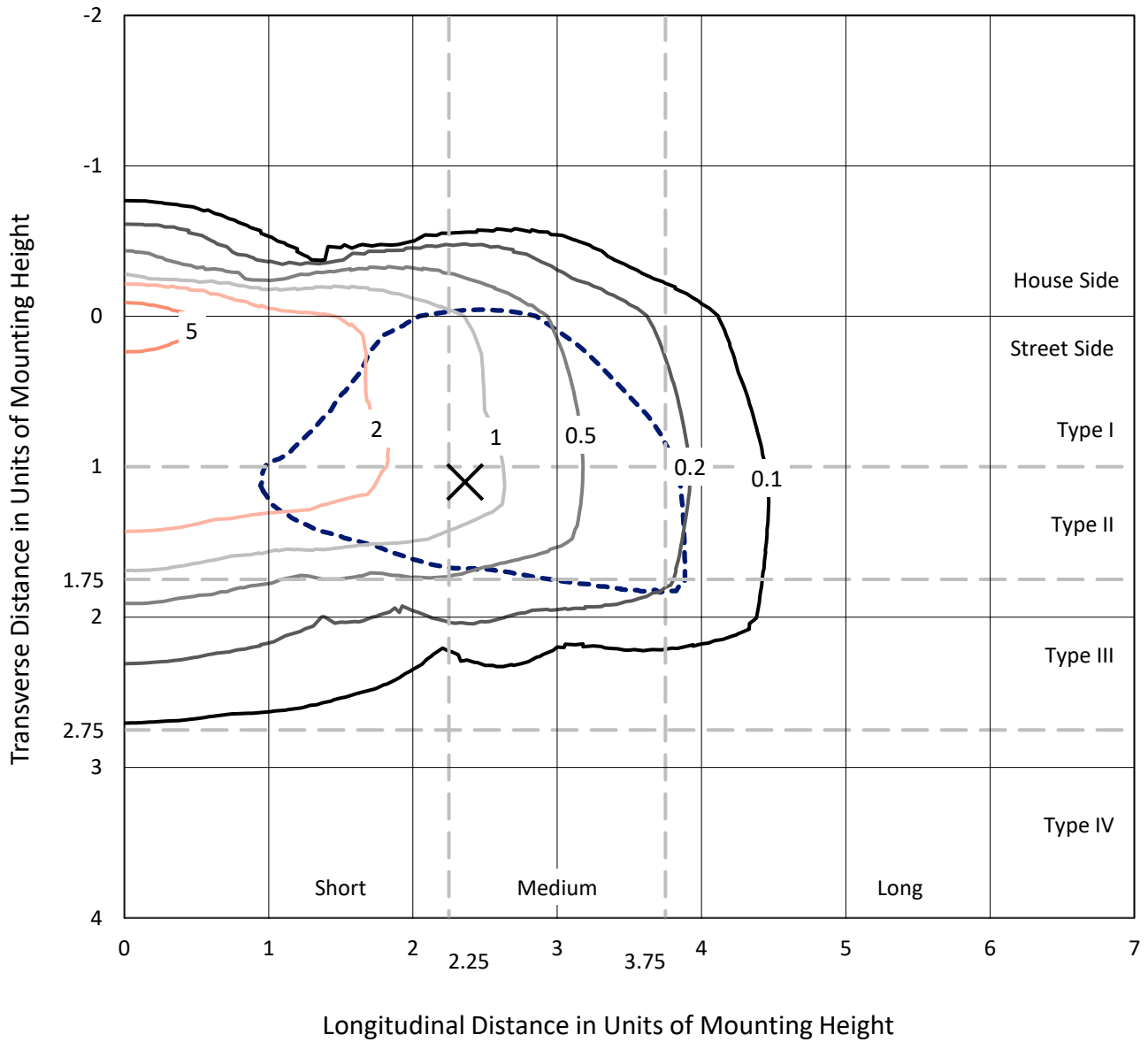
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

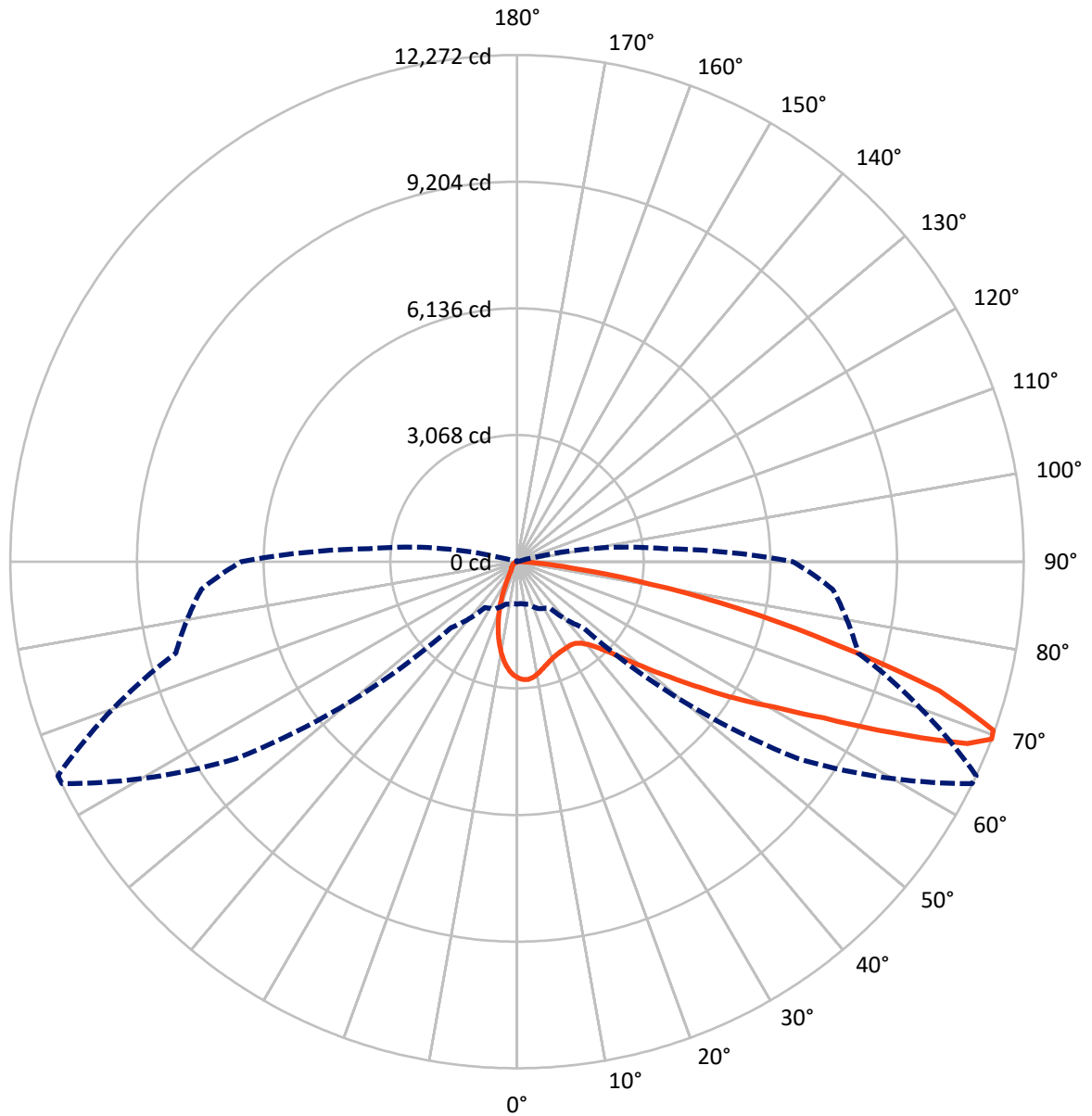
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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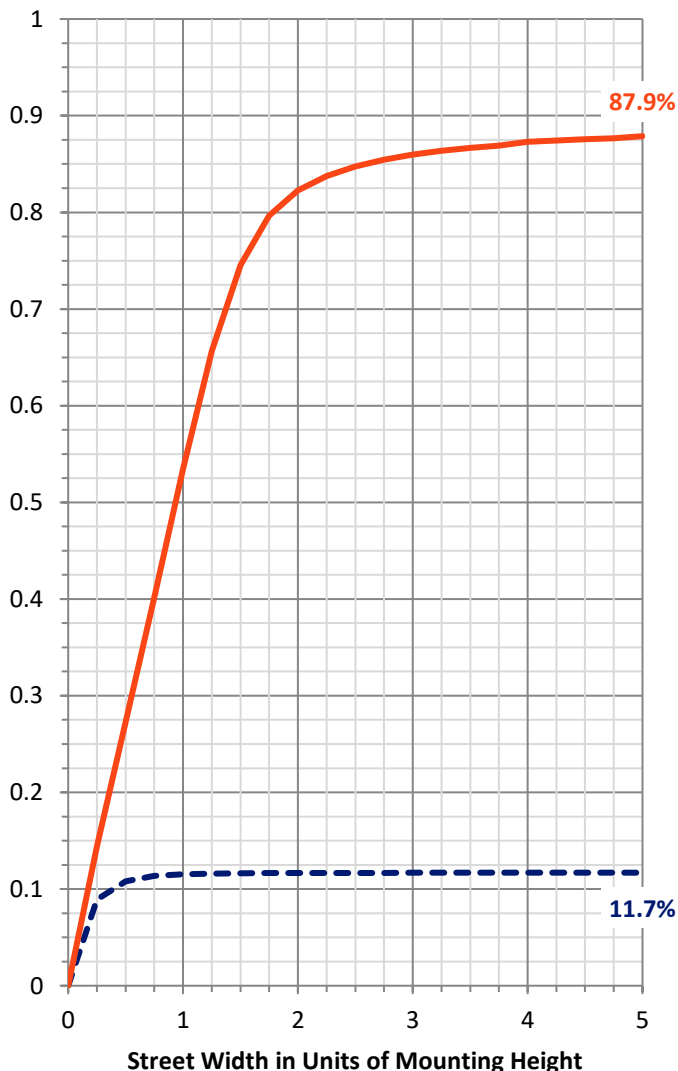
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1312.4   | 0.0    | 1312.4  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 9821.6   | 0.0    | 9821.6  |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 11134.0  | 0.0    | 11134.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 235.3   | 2.1       |
| 10°-20°   | 515.0   | 4.6       |
| 20°-30°   | 713.3   | 6.4       |
| 30°-40°   | 994.6   | 8.9       |
| 40°-50°   | 1545.9  | 13.9      |
| 50°-60°   | 2481.8  | 22.3      |
| 60°-70°   | 2807.4  | 25.2      |
| 70°-80°   | 1648.8  | 14.8      |
| 80°-90°   | 191.8   | 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°    | 11134.0 | 100.0     |
| 0°-180°   | 11134.0 | 100.0     |

**Coefficient of Utilization**



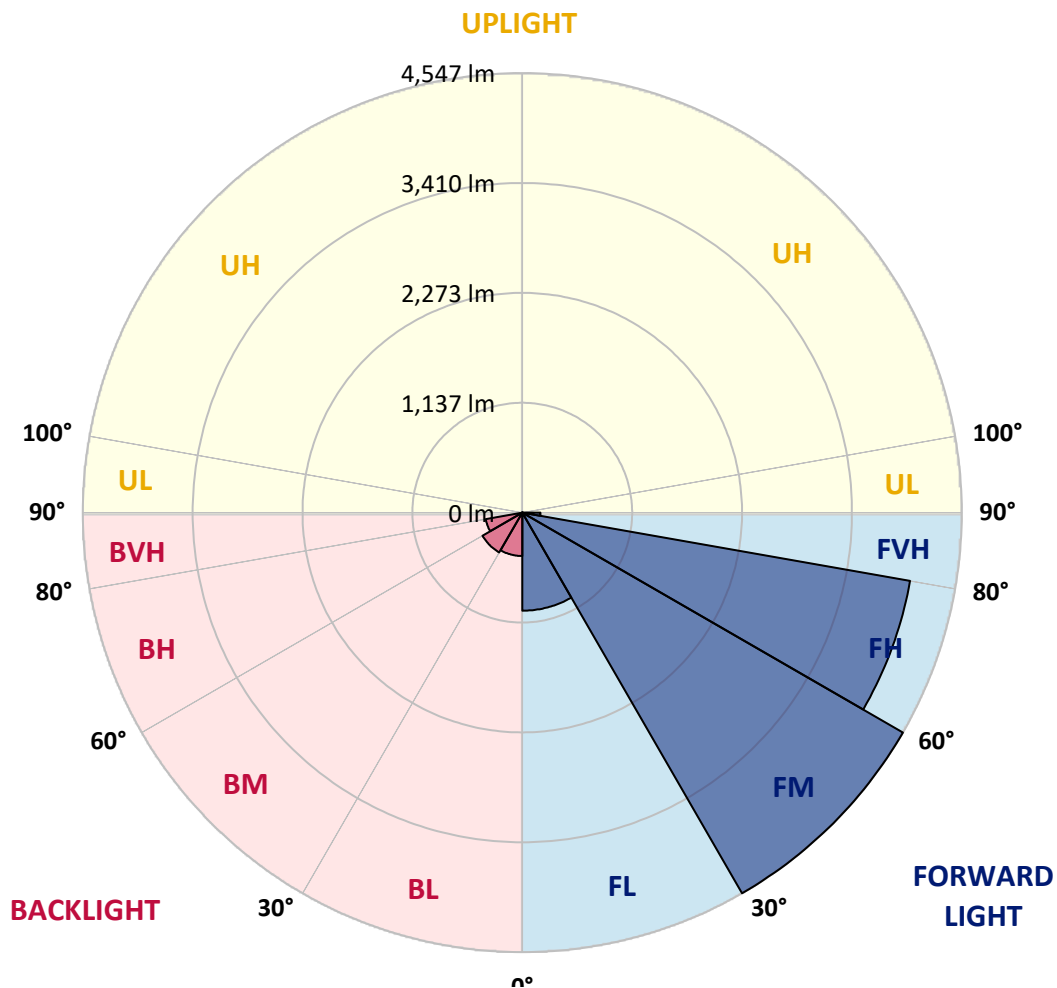
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1014.6 | 9.1       |                         |      |         |
| FM (30°-60°)   | 4546.8 | 40.8      |                         |      |         |
| FH (60°-80°)   | 4072.7 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 187.5  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 449.1  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 475.6  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 383.5  | 3.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.3    | 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°    | 64°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6  | 2813.6  | 2813.6 | 2813.6 |
| 2.5°  | 2838.6 | 2831.5 | 2837.1 | 2849.4 | 2855.5 | 2855.5 | 2860.2 | 2854.6  | 2856.5  | 2842.8 | 2823.0 |
| 5°    | 2660.9 | 2650.1 | 2665.6 | 2700.0 | 2742.4 | 2778.7 | 2832.4 | 2860.7  | 2863.5  | 2864.0 | 2840.9 |
| 7.5°  | 2469.7 | 2459.8 | 2482.8 | 2523.4 | 2578.0 | 2645.4 | 2739.1 | 2821.1  | 2825.8  | 2870.1 | 2853.2 |
| 10°   | 2314.2 | 2307.1 | 2334.0 | 2377.3 | 2441.4 | 2516.8 | 2631.7 | 2745.7  | 2759.4  | 2857.4 | 2851.3 |
| 12.5° | 2190.7 | 2185.1 | 2210.5 | 2260.5 | 2326.0 | 2409.4 | 2529.5 | 2661.9  | 2680.3  | 2828.7 | 2841.8 |
| 15°   | 2100.8 | 2099.8 | 2121.0 | 2169.1 | 2241.6 | 2319.4 | 2442.3 | 2584.1  | 2605.3  | 2797.6 | 2840.4 |
| 17.5° | 2053.7 | 2055.1 | 2070.6 | 2111.6 | 2173.8 | 2251.1 | 2368.8 | 2518.7  | 2541.7  | 2769.8 | 2847.5 |
| 20°   | 2048.9 | 2050.4 | 2058.8 | 2081.9 | 2132.3 | 2200.6 | 2309.0 | 2463.5  | 2487.6  | 2749.0 | 2858.8 |
| 22.5° | 2090.4 | 2089.5 | 2091.8 | 2089.5 | 2117.7 | 2169.5 | 2269.4 | 2421.1  | 2448.9  | 2735.4 | 2867.8 |
| 25°   | 2170.0 | 2168.6 | 2167.7 | 2150.2 | 2131.4 | 2159.2 | 2252.9 | 2397.1  | 2423.5  | 2725.5 | 2872.9 |
| 27.5° | 2280.7 | 2279.8 | 2278.4 | 2249.6 | 2193.1 | 2175.7 | 2254.8 | 2388.2  | 2410.3  | 2717.5 | 2872.0 |
| 30°   | 2426.3 | 2432.9 | 2431.0 | 2391.0 | 2302.9 | 2226.1 | 2274.6 | 2383.4  | 2402.8  | 2701.9 | 2862.1 |
| 32.5° | 2597.3 | 2610.5 | 2620.9 | 2578.0 | 2467.8 | 2326.0 | 2320.3 | 2388.6  | 2402.8  | 2690.1 | 2844.2 |
| 35°   | 2774.9 | 2791.9 | 2830.1 | 2815.0 | 2669.9 | 2476.3 | 2399.0 | 2419.7  | 2431.5  | 2696.7 | 2835.7 |
| 37.5° | 2949.7 | 2970.0 | 3052.9 | 3096.7 | 2934.7 | 2675.1 | 2521.5 | 2496.5  | 2502.6  | 2736.8 | 2845.1 |
| 40°   | 3152.8 | 3183.4 | 3309.2 | 3379.9 | 3250.8 | 2941.3 | 2704.8 | 2628.4  | 2630.8  | 2824.9 | 2889.0 |
| 42.5° | 3419.5 | 3451.0 | 3587.2 | 3697.9 | 3607.0 | 3277.6 | 2953.5 | 2830.1  | 2827.7  | 2989.8 | 2992.1 |
| 45°   | 3744.5 | 3777.5 | 3918.4 | 4041.3 | 4000.4 | 3676.2 | 3272.0 | 3124.5  | 3121.7  | 3249.8 | 3187.7 |
| 47.5° | 4113.0 | 4145.5 | 4271.3 | 4398.0 | 4442.3 | 4141.7 | 3677.6 | 3526.4  | 3519.8  | 3611.2 | 3489.7 |
| 50°   | 4429.1 | 4450.3 | 4566.2 | 4736.7 | 4936.5 | 4713.6 | 4182.2 | 4036.6  | 4029.6  | 4091.3 | 3933.0 |
| 52.5° | 4544.0 | 4556.3 | 4674.1 | 4912.9 | 5411.4 | 5488.2 | 4845.1 | 4657.6  | 4652.4  | 4679.3 | 4523.3 |
| 55°   | 4311.3 | 4333.4 | 4478.1 | 4832.4 | 5668.6 | 6363.5 | 5681.8 | 5426.5  | 5387.4  | 5329.4 | 5140.5 |
| 57.5° | 3677.2 | 3712.5 | 3868.0 | 4339.1 | 5548.5 | 7058.0 | 6911.5 | 6296.2  | 6238.7  | 5884.4 | 5642.2 |
| 60°   | 2755.2 | 2798.5 | 2927.6 | 3435.9 | 4907.3 | 7305.3 | 8255.1 | 7265.3  | 7135.7  | 6326.3 | 6103.5 |
| 62.5° | 1890.6 | 1912.3 | 1999.9 | 2331.1 | 3614.0 | 6900.2 | 9379.2 | 8563.2  | 8326.7  | 6806.9 | 6602.4 |
| 65°   | 1444.0 | 1451.5 | 1487.4 | 1601.4 | 2152.1 | 5605.0 | 9826.3 | 10275.8 | 9989.8  | 7381.6 | 7120.2 |
| 67.5° | 1163.7 | 1157.6 | 1207.0 | 1370.0 | 1441.2 | 3419.5 | 9304.8 | 11896.0 | 11762.2 | 8150.1 | 7641.2 |
| 69°   | 1026.1 | 1017.6 | 1068.0 | 1257.4 | 1353.6 | 2260.5 | 8318.3 | 12264.0 | 12272.4 | 8555.7 | 7677.0 |
| 70°   | 923.4  | 929.1  | 979.0  | 1190.5 | 1323.9 | 1774.3 | 7376.0 | 12170.2 | 12237.1 | 8707.4 | 7462.2 |
| 72.5° | 616.7  | 631.8  | 732.1  | 988.4  | 1273.0 | 1342.7 | 4453.6 | 10443.5 | 10700.7 | 8365.8 | 6402.2 |
| 75°   | 347.7  | 359.0  | 478.2  | 745.3  | 1199.5 | 1278.6 | 2352.3 | 7694.0  | 7942.8  | 6995.8 | 4937.0 |
| 77.5° | 170.5  | 176.7  | 270.4  | 481.0  | 1003.0 | 1218.3 | 1334.2 | 5226.2  | 5510.3  | 4566.2 | 2792.4 |
| 80°   | 72.1   | 75.4   | 135.2  | 296.8  | 717.1  | 1162.7 | 990.8  | 3216.4  | 3251.7  | 1788.9 | 743.9  |
| 82.5° | 27.8   | 28.7   | 57.0   | 185.2  | 455.6  | 906.5  | 828.7  | 1525.0  | 1488.3  | 336.9  | 169.6  |
| 85°   | 3.3    | 3.8    | 20.7   | 111.2  | 253.5  | 466.4  | 673.2  | 657.2   | 608.2   | 66.9   | 87.2   |
| 87.5° | 0.0    | 0.0    | 1.4    | 33.9   | 75.4   | 218.6  | 350.0  | 272.8   | 245.9   | 21.7   | 45.2   |
| 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°    | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 | 2813.6 |
| 2.5°  | 2806.5 | 2801.8 | 2776.4 | 2739.6 | 2704.8 | 2661.4 | 2619.9 | 2595.0 | 2575.2 | 2562.0 | 2577.5 |
| 5°    | 2814.1 | 2793.3 | 2716.1 | 2617.1 | 2520.1 | 2410.8 | 2309.0 | 2222.8 | 2188.9 | 2151.2 | 2168.1 |
| 7.5°  | 2811.7 | 2772.6 | 2633.6 | 2457.4 | 2279.3 | 2095.1 | 1920.8 | 1786.5 | 1716.8 | 1648.5 | 1665.9 |
| 10°   | 2799.9 | 2734.0 | 2523.4 | 2262.4 | 1995.7 | 1730.9 | 1483.6 | 1295.6 | 1190.5 | 1095.4 | 1109.0 |
| 12.5° | 2774.0 | 2682.1 | 2393.3 | 2039.0 | 1682.4 | 1333.3 | 1043.6 | 802.8  | 673.7  | 616.7  | 623.8  |
| 15°   | 2758.5 | 2631.7 | 2255.8 | 1812.9 | 1347.9 | 928.6  | 637.9  | 474.4  | 415.5  | 396.7  | 399.0  |
| 17.5° | 2750.9 | 2583.2 | 2113.5 | 1554.3 | 1005.9 | 591.3  | 412.2  | 363.7  | 351.0  | 347.7  | 348.6  |
| 20°   | 2743.4 | 2534.2 | 1967.0 | 1298.4 | 693.0  | 397.6  | 338.7  | 324.6  | 319.9  | 315.7  | 316.6  |
| 22.5° | 2730.7 | 2487.1 | 1809.6 | 1039.3 | 467.4  | 322.7  | 305.3  | 291.6  | 281.7  | 276.6  | 277.5  |
| 25°   | 2715.1 | 2437.6 | 1649.0 | 774.1  | 341.1  | 287.9  | 271.4  | 252.1  | 240.3  | 230.9  | 231.3  |
| 27.5° | 2690.1 | 2376.8 | 1483.1 | 563.5  | 286.4  | 257.7  | 235.6  | 214.4  | 194.6  | 183.7  | 183.7  |
| 30°   | 2655.3 | 2308.1 | 1298.9 | 403.3  | 256.8  | 228.0  | 201.2  | 174.8  | 153.6  | 143.7  | 142.8  |
| 32.5° | 2616.6 | 2236.4 | 1112.8 | 305.8  | 233.2  | 200.2  | 169.6  | 141.8  | 123.0  | 115.0  | 114.5  |
| 35°   | 2583.7 | 2159.2 | 927.2  | 256.3  | 209.7  | 173.4  | 139.9  | 116.4  | 101.3  | 94.7   | 94.2   |
| 37.5° | 2562.5 | 2081.9 | 746.3  | 229.0  | 188.5  | 148.4  | 117.3  | 96.1   | 85.3   | 80.1   | 79.6   |
| 40°   | 2559.2 | 2024.4 | 580.9  | 208.2  | 168.7  | 126.3  | 98.0   | 81.5   | 71.6   | 66.0   | 65.5   |
| 42.5° | 2602.0 | 1991.5 | 445.7  | 190.8  | 148.4  | 106.9  | 83.4   | 69.7   | 59.4   | 53.7   | 53.2   |
| 45°   | 2714.6 | 2001.8 | 343.0  | 175.3  | 128.1  | 90.5   | 70.7   | 57.9   | 48.5   | 44.3   | 43.3   |
| 47.5° | 2920.1 | 2073.4 | 272.8  | 159.7  | 108.8  | 76.8   | 60.3   | 48.1   | 40.0   | 35.8   | 35.3   |
| 50°   | 3285.7 | 2241.6 | 228.0  | 142.8  | 90.9   | 65.5   | 49.9   | 39.1   | 32.5   | 28.7   | 28.3   |
| 52.5° | 3770.9 | 2541.3 | 203.5  | 126.3  | 75.4   | 55.6   | 41.0   | 31.1   | 25.4   | 22.6   | 22.1   |
| 55°   | 4306.1 | 2904.0 | 187.5  | 108.4  | 61.7   | 46.2   | 32.5   | 24.5   | 19.8   | 17.4   | 16.5   |
| 57.5° | 4828.6 | 3218.3 | 172.4  | 90.9   | 51.4   | 37.7   | 25.9   | 19.3   | 15.5   | 13.2   | 12.7   |
| 60°   | 5308.7 | 3507.1 | 155.0  | 73.0   | 41.9   | 29.7   | 20.3   | 15.1   | 12.2   | 9.9    | 9.9    |
| 62.5° | 5822.7 | 3730.4 | 131.0  | 57.0   | 34.4   | 22.6   | 16.5   | 13.7   | 9.9    | 8.5    | 8.0    |
| 65°   | 6367.3 | 3896.2 | 102.7  | 44.3   | 26.9   | 17.0   | 13.7   | 14.1   | 8.0    | 6.1    | 5.7    |
| 67.5° | 6769.7 | 3863.3 | 75.9   | 34.9   | 20.7   | 13.2   | 13.2   | 15.1   | 7.1    | 4.7    | 4.2    |
| 69°   | 6681.1 | 3595.2 | 63.6   | 30.2   | 17.9   | 11.3   | 12.2   | 15.1   | 6.6    | 4.2    | 3.8    |
| 70°   | 6424.3 | 3298.4 | 56.1   | 26.9   | 16.0   | 10.4   | 11.8   | 14.6   | 6.1    | 4.2    | 3.8    |
| 72.5° | 5350.1 | 2484.3 | 43.8   | 20.3   | 12.7   | 8.5    | 9.9    | 12.7   | 6.1    | 4.2    | 3.3    |
| 75°   | 4024.4 | 1590.1 | 33.5   | 14.6   | 9.4    | 6.6    | 7.5    | 9.4    | 6.1    | 3.8    | 3.3    |
| 77.5° | 2189.8 | 573.4  | 24.0   | 9.9    | 6.6    | 5.2    | 5.2    | 7.1    | 5.7    | 2.8    | 1.9    |
| 80°   | 563.0  | 144.2  | 15.1   | 6.6    | 5.2    | 3.8    | 3.3    | 4.7    | 3.3    | 0.5    | 0.0    |
| 82.5° | 139.0  | 32.5   | 8.0    | 4.7    | 3.8    | 1.4    | 1.4    | 2.4    | 1.4    | 0.0    | 0.0    |
| 85°   | 76.3   | 16.0   | 5.2    | 3.3    | 1.9    | 0.0    | 0.0    | 0.5    | 0.0    | 0.0    | 0.0    |
| 87.5° | 39.1   | 4.7    | 1.4    | 0.9    | 0.5    | 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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