

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: P386360

Luminaire Tested: **GWC-SA2A-730-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386360  
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-SA2A-730-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 7187 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

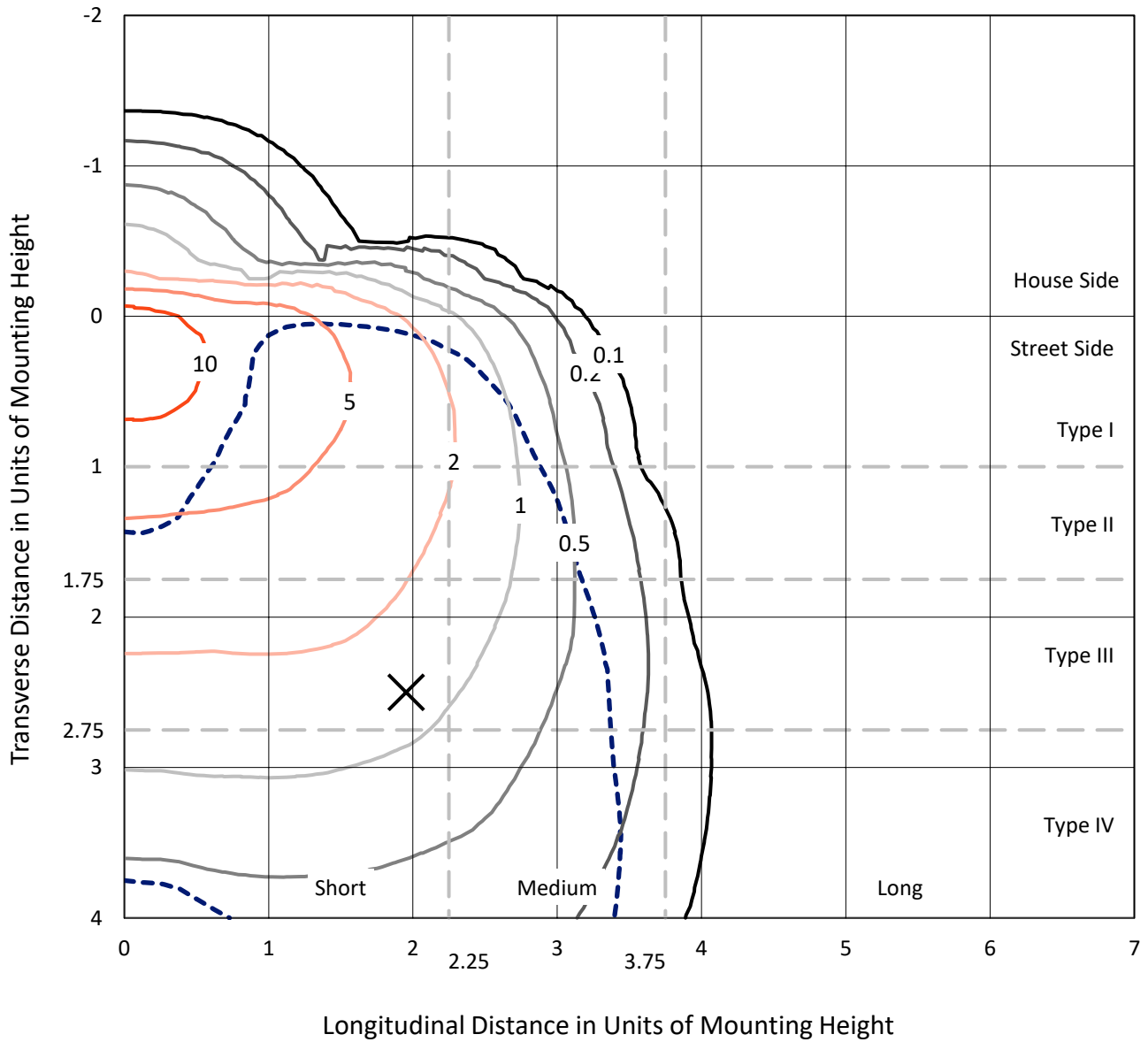
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

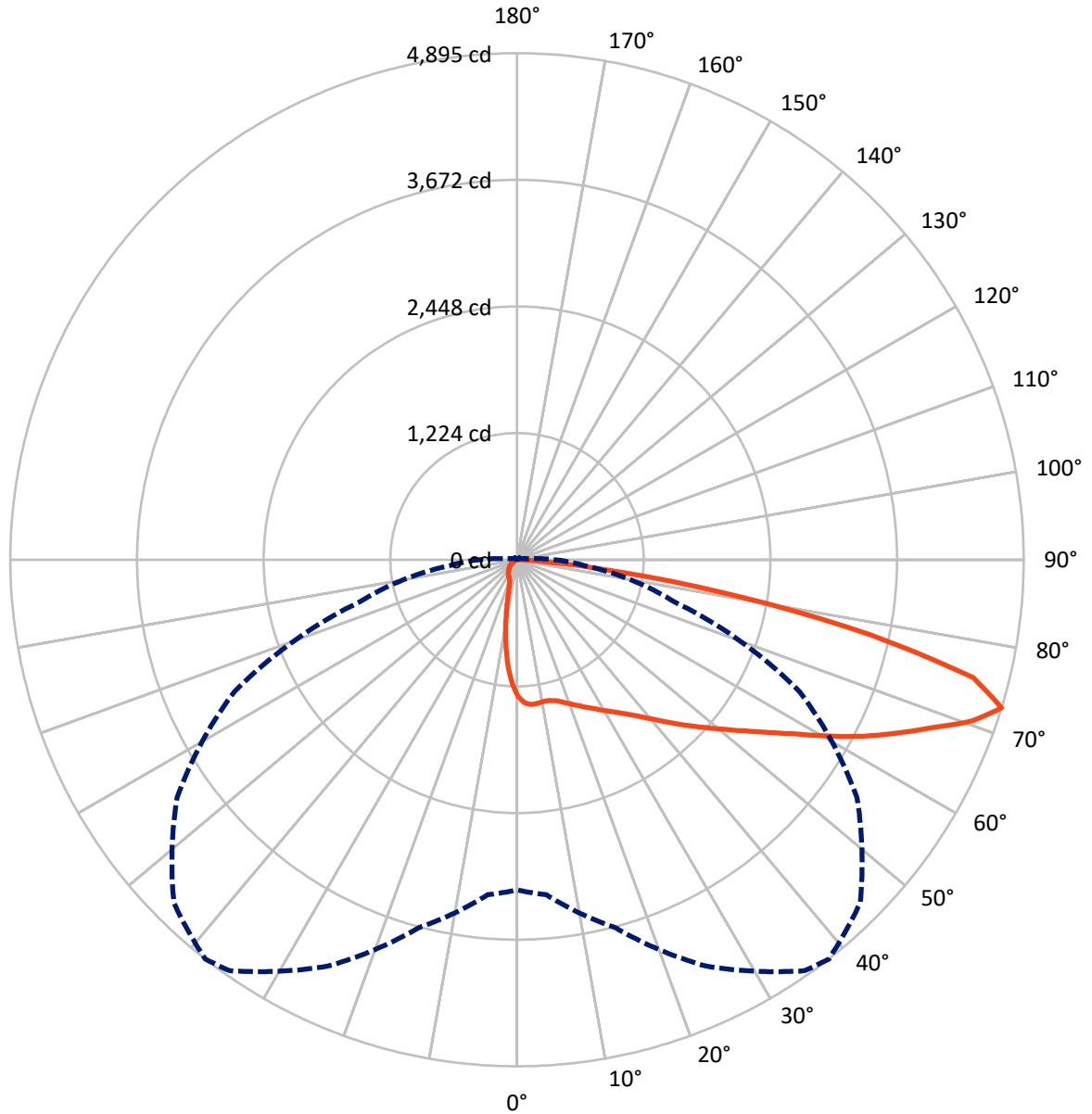
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 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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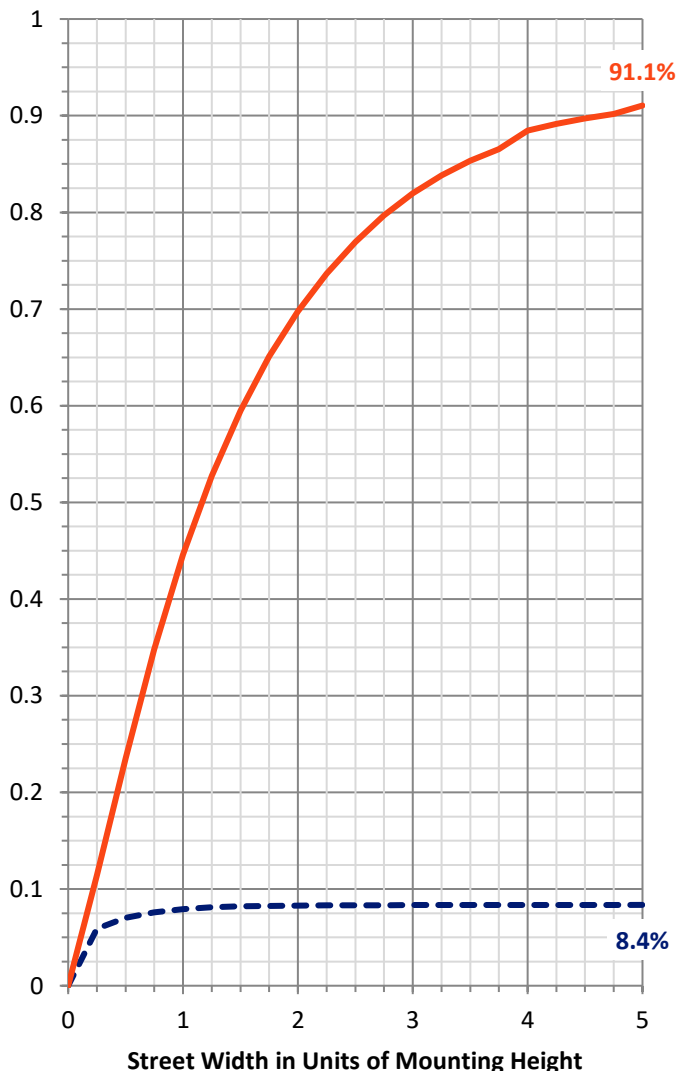
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 604.8    | 0.0    | 604.8  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 6582.2   | 0.0    | 6582.2 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 7187.0   | 0.0    | 7187.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.6  | 1.6       |
| 10°-20°   | 275.4  | 3.8       |
| 20°-30°   | 438.0  | 6.1       |
| 30°-40°   | 658.5  | 9.2       |
| 40°-50°   | 1004.6 | 14.0      |
| 50°-60°   | 1419.9 | 19.8      |
| 60°-70°   | 1781.0 | 24.8      |
| 70°-80°   | 1331.7 | 18.5      |
| 80°-90°   | 165.1  | 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°    | 7187.0 | 100.0     |
| 0°-180°   | 7187.0 | 100.0     |

**Coefficient of Utilization**



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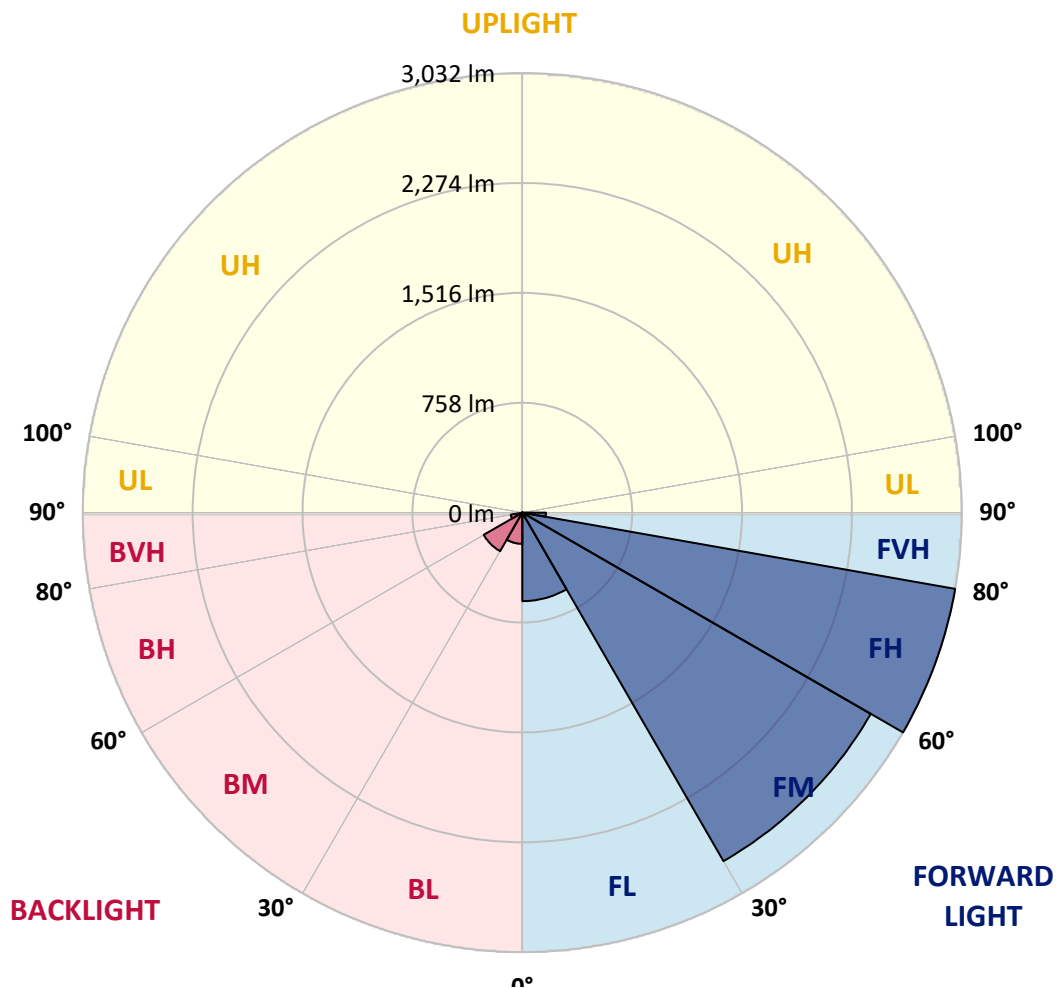
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 610.7  | 8.5       |                         |      |         |
| FM (30°-60°)   | 2775.9 | 38.6      |                         |      |         |
| FH (60°-80°)   | 3031.9 | 42.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 163.6  | 2.3       |                         |      | G2/225  |
| BL (0°-30°)    | 215.4  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 307.1  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 80.8   | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.5    | 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°    | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 |
| 2.5°  | 1402.9 | 1403.2 | 1399.9 | 1394.5 | 1387.6 | 1384.0 | 1378.1 | 1368.5 | 1358.4 | 1340.2 | 1320.5 |
| 5°    | 1431.5 | 1431.5 | 1427.3 | 1420.2 | 1409.1 | 1405.8 | 1394.5 | 1379.3 | 1358.4 | 1328.8 | 1295.7 |
| 7.5°  | 1428.5 | 1429.1 | 1423.4 | 1416.0 | 1404.9 | 1402.0 | 1388.2 | 1371.2 | 1345.2 | 1309.4 | 1267.0 |
| 10°   | 1413.0 | 1414.5 | 1410.0 | 1406.4 | 1396.3 | 1393.0 | 1380.2 | 1363.2 | 1337.2 | 1299.0 | 1250.3 |
| 12.5° | 1397.2 | 1398.7 | 1400.2 | 1403.4 | 1397.2 | 1396.0 | 1385.8 | 1371.5 | 1346.7 | 1307.0 | 1252.1 |
| 15°   | 1387.0 | 1390.0 | 1400.8 | 1413.6 | 1415.1 | 1413.9 | 1407.3 | 1393.9 | 1368.8 | 1327.6 | 1265.0 |
| 17.5° | 1387.0 | 1391.8 | 1414.2 | 1438.7 | 1447.3 | 1448.2 | 1442.5 | 1423.7 | 1393.9 | 1349.7 | 1276.9 |
| 20°   | 1398.7 | 1405.2 | 1440.2 | 1474.8 | 1489.1 | 1489.1 | 1478.1 | 1451.8 | 1416.9 | 1369.7 | 1285.0 |
| 22.5° | 1428.5 | 1437.2 | 1481.1 | 1521.0 | 1536.3 | 1533.0 | 1518.1 | 1479.9 | 1440.8 | 1392.4 | 1295.1 |
| 25°   | 1487.3 | 1493.9 | 1539.6 | 1579.9 | 1589.1 | 1581.6 | 1562.8 | 1513.9 | 1471.2 | 1423.1 | 1313.6 |
| 27.5° | 1563.1 | 1564.0 | 1611.2 | 1645.2 | 1639.5 | 1634.5 | 1610.9 | 1556.6 | 1515.1 | 1467.0 | 1345.5 |
| 30°   | 1646.4 | 1646.4 | 1687.9 | 1713.9 | 1696.6 | 1692.4 | 1668.8 | 1608.2 | 1571.2 | 1526.7 | 1390.9 |
| 32.5° | 1727.0 | 1730.6 | 1764.3 | 1780.7 | 1761.3 | 1757.1 | 1734.2 | 1673.6 | 1645.8 | 1617.8 | 1461.7 |
| 35°   | 1804.9 | 1807.6 | 1839.5 | 1848.5 | 1830.0 | 1831.2 | 1814.8 | 1763.4 | 1753.0 | 1749.4 | 1568.2 |
| 37.5° | 1880.4 | 1881.0 | 1913.5 | 1919.2 | 1910.0 | 1920.1 | 1921.6 | 1876.2 | 1895.6 | 1924.6 | 1718.3 |
| 40°   | 1949.4 | 1950.0 | 1982.2 | 1996.8 | 2012.6 | 2025.8 | 2037.4 | 2013.2 | 2077.4 | 2144.6 | 1897.1 |
| 42.5° | 2004.6 | 2010.9 | 2051.7 | 2079.5 | 2121.3 | 2146.4 | 2178.0 | 2176.8 | 2293.8 | 2394.7 | 2113.2 |
| 45°   | 2053.2 | 2064.0 | 2121.0 | 2169.6 | 2241.3 | 2281.3 | 2330.8 | 2369.6 | 2537.4 | 2673.2 | 2332.0 |
| 47.5° | 2117.4 | 2127.6 | 2192.6 | 2272.3 | 2367.8 | 2420.4 | 2502.4 | 2586.3 | 2805.1 | 2946.6 | 2545.7 |
| 50°   | 2207.9 | 2203.4 | 2267.5 | 2381.9 | 2504.5 | 2573.5 | 2690.5 | 2816.2 | 3070.8 | 3184.8 | 2671.4 |
| 52.5° | 2304.3 | 2302.5 | 2349.9 | 2501.0 | 2665.7 | 2746.3 | 2900.9 | 3053.7 | 3324.8 | 3348.9 | 2729.0 |
| 55°   | 2423.7 | 2410.8 | 2450.8 | 2636.8 | 2857.0 | 2943.6 | 3125.7 | 3288.9 | 3527.1 | 3441.5 | 2757.9 |
| 57.5° | 2548.7 | 2527.5 | 2565.7 | 2788.1 | 3072.8 | 3175.2 | 3374.6 | 3518.2 | 3661.7 | 3504.7 | 2757.6 |
| 60°   | 2678.0 | 2652.9 | 2698.3 | 2977.3 | 3340.9 | 3459.4 | 3644.4 | 3673.1 | 3787.4 | 3536.7 | 2737.4 |
| 62.5° | 2786.0 | 2771.1 | 2838.5 | 3179.7 | 3640.3 | 3756.7 | 3848.3 | 3814.0 | 3893.4 | 3561.5 | 2689.9 |
| 65°   | 2900.3 | 2901.2 | 3010.2 | 3415.8 | 3958.4 | 4036.9 | 4044.7 | 3996.6 | 3982.0 | 3556.4 | 2529.3 |
| 67.5° | 3054.9 | 3069.3 | 3251.0 | 3736.4 | 4268.0 | 4328.5 | 4327.9 | 4194.5 | 4046.8 | 3354.6 | 2173.2 |
| 70°   | 3218.5 | 3252.2 | 3528.6 | 4103.2 | 4605.8 | 4667.3 | 4635.7 | 4320.5 | 3810.4 | 2712.6 | 1538.1 |
| 72.5° | 3191.0 | 3249.5 | 3682.9 | 4334.5 | 4848.5 | 4895.4 | 4689.7 | 4011.0 | 3011.7 | 1576.6 | 654.9  |
| 75°   | 2461.9 | 2529.6 | 3377.0 | 4105.3 | 4593.9 | 4551.8 | 4029.5 | 3121.2 | 1645.8 | 440.0  | 147.4  |
| 77.5° | 1300.5 | 1336.6 | 2230.8 | 3127.5 | 3582.0 | 3494.0 | 2838.5 | 1731.5 | 501.7  | 108.9  | 66.3   |
| 80°   | 681.1  | 689.5  | 972.1  | 1774.5 | 2210.8 | 2211.4 | 1682.2 | 760.5  | 206.8  | 55.8   | 44.5   |
| 82.5° | 364.7  | 371.9  | 513.7  | 819.9  | 1158.4 | 1050.0 | 644.1  | 418.5  | 120.3  | 31.6   | 42.7   |
| 85°   | 87.8   | 89.2   | 291.3  | 374.6  | 455.5  | 325.3  | 191.3  | 351.3  | 32.5   | 18.5   | 34.6   |
| 87.5° | 33.7   | 34.3   | 108.0  | 162.1  | 116.1  | 75.2   | 89.5   | 131.0  | 4.2    | 7.2    | 5.4    |
| 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°    | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 | 1321.7 |
| 2.5°  | 1308.5 | 1300.8 | 1281.7 | 1257.5 | 1236.0 | 1220.5 | 1197.2 | 1182.0 | 1171.8 | 1171.5 | 1167.7 |
| 5°    | 1275.4 | 1259.6 | 1218.4 | 1169.4 | 1125.0 | 1085.0 | 1037.8 | 1000.5 | 972.7  | 968.3  | 958.7  |
| 7.5°  | 1239.9 | 1213.9 | 1150.6 | 1074.2 | 999.6  | 923.8  | 835.7  | 781.1  | 734.3  | 711.9  | 709.5  |
| 10°   | 1218.1 | 1181.7 | 1091.8 | 981.4  | 864.4  | 741.1  | 625.9  | 546.2  | 488.6  | 472.2  | 460.0  |
| 12.5° | 1213.6 | 1165.6 | 1046.5 | 894.2  | 727.1  | 564.1  | 436.7  | 351.9  | 305.9  | 291.3  | 287.4  |
| 15°   | 1218.1 | 1158.1 | 1008.3 | 808.0  | 588.0  | 400.3  | 293.1  | 243.9  | 226.5  | 222.4  | 222.1  |
| 17.5° | 1220.8 | 1149.1 | 965.0  | 712.2  | 453.1  | 285.9  | 224.5  | 210.1  | 207.4  | 207.1  | 207.7  |
| 20°   | 1220.5 | 1135.4 | 913.3  | 605.3  | 337.0  | 224.8  | 203.0  | 200.0  | 199.4  | 199.7  | 199.4  |
| 22.5° | 1218.4 | 1119.3 | 856.6  | 495.2  | 254.6  | 200.9  | 193.7  | 191.9  | 191.6  | 191.6  | 191.6  |
| 25°   | 1222.3 | 1106.5 | 794.3  | 389.8  | 209.8  | 189.8  | 185.4  | 183.9  | 183.6  | 183.6  | 183.0  |
| 27.5° | 1236.3 | 1099.3 | 725.9  | 300.0  | 189.5  | 180.0  | 176.4  | 176.1  | 175.2  | 174.9  | 175.5  |
| 30°   | 1259.0 | 1099.3 | 651.0  | 233.4  | 177.3  | 169.8  | 167.1  | 166.6  | 166.3  | 166.0  | 166.3  |
| 32.5° | 1299.0 | 1107.7 | 569.2  | 194.0  | 165.7  | 158.5  | 156.7  | 157.6  | 156.7  | 156.7  | 156.7  |
| 35°   | 1371.2 | 1132.7 | 483.5  | 169.2  | 153.4  | 147.4  | 145.7  | 146.9  | 146.3  | 146.3  | 146.0  |
| 37.5° | 1476.6 | 1179.3 | 397.3  | 154.3  | 142.7  | 136.4  | 134.0  | 135.8  | 135.2  | 135.2  | 134.9  |
| 40°   | 1604.9 | 1247.0 | 315.2  | 143.0  | 132.2  | 125.7  | 123.6  | 124.5  | 123.0  | 123.0  | 123.6  |
| 42.5° | 1763.4 | 1333.0 | 243.6  | 131.9  | 121.8  | 115.5  | 114.3  | 113.4  | 110.7  | 109.2  | 109.5  |
| 45°   | 1939.5 | 1422.6 | 189.8  | 121.2  | 111.9  | 106.9  | 105.1  | 102.7  | 98.2   | 95.2   | 95.5   |
| 47.5° | 2096.8 | 1491.5 | 154.3  | 110.7  | 103.0  | 99.1   | 96.4   | 91.9   | 85.4   | 81.8   | 82.1   |
| 50°   | 2179.5 | 1501.9 | 131.3  | 100.3  | 94.6   | 90.7   | 86.9   | 80.0   | 72.2   | 68.4   | 68.1   |
| 52.5° | 2200.7 | 1453.0 | 114.3  | 90.7   | 86.3   | 81.8   | 76.7   | 67.5   | 58.8   | 54.6   | 54.0   |
| 55°   | 2208.4 | 1378.4 | 99.1   | 81.8   | 77.3   | 72.2   | 65.7   | 55.2   | 47.2   | 43.0   | 42.7   |
| 57.5° | 2182.8 | 1267.0 | 87.2   | 73.7   | 68.4   | 62.1   | 54.0   | 44.2   | 36.4   | 33.1   | 33.1   |
| 60°   | 2125.8 | 1116.3 | 77.9   | 65.1   | 59.1   | 51.9   | 43.6   | 34.3   | 27.2   | 24.5   | 24.5   |
| 62.5° | 2012.0 | 921.1  | 69.2   | 56.1   | 50.4   | 43.0   | 35.2   | 26.0   | 19.1   | 17.6   | 17.9   |
| 65°   | 1797.4 | 698.7  | 60.6   | 48.1   | 43.0   | 35.5   | 27.5   | 18.5   | 12.8   | 12.8   | 13.4   |
| 67.5° | 1465.8 | 485.3  | 51.6   | 40.9   | 37.0   | 29.0   | 20.9   | 12.8   | 9.0    | 10.1   | 11.3   |
| 70°   | 970.4  | 272.2  | 44.2   | 33.7   | 31.6   | 23.0   | 15.5   | 8.7    | 7.2    | 9.6    | 11.6   |
| 72.5° | 366.2  | 106.0  | 37.0   | 27.2   | 27.5   | 17.6   | 11.0   | 6.6    | 6.6    | 10.4   | 13.7   |
| 75°   | 102.1  | 51.9   | 26.6   | 20.0   | 21.5   | 12.8   | 8.1    | 5.7    | 6.3    | 11.9   | 16.1   |
| 77.5° | 60.0   | 38.2   | 17.3   | 11.6   | 14.6   | 9.0    | 5.4    | 4.5    | 5.4    | 10.1   | 15.5   |
| 80°   | 48.4   | 20.3   | 10.1   | 6.0    | 8.1    | 5.1    | 3.6    | 2.7    | 1.5    | 3.9    | 8.1    |
| 82.5° | 48.4   | 12.2   | 4.8    | 4.2    | 4.2    | 2.7    | 1.8    | 1.2    | 0.3    | 0.0    | 2.1    |
| 85°   | 32.5   | 5.1    | 3.0    | 2.7    | 2.1    | 0.9    | 0.6    | 0.3    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.4    | 2.1    | 1.2    | 0.6    | 0.3    | 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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