

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: P385857

Luminaire Tested: **GWC-SA1C-722-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385857  
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-SA1C-722-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5277 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 58  
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



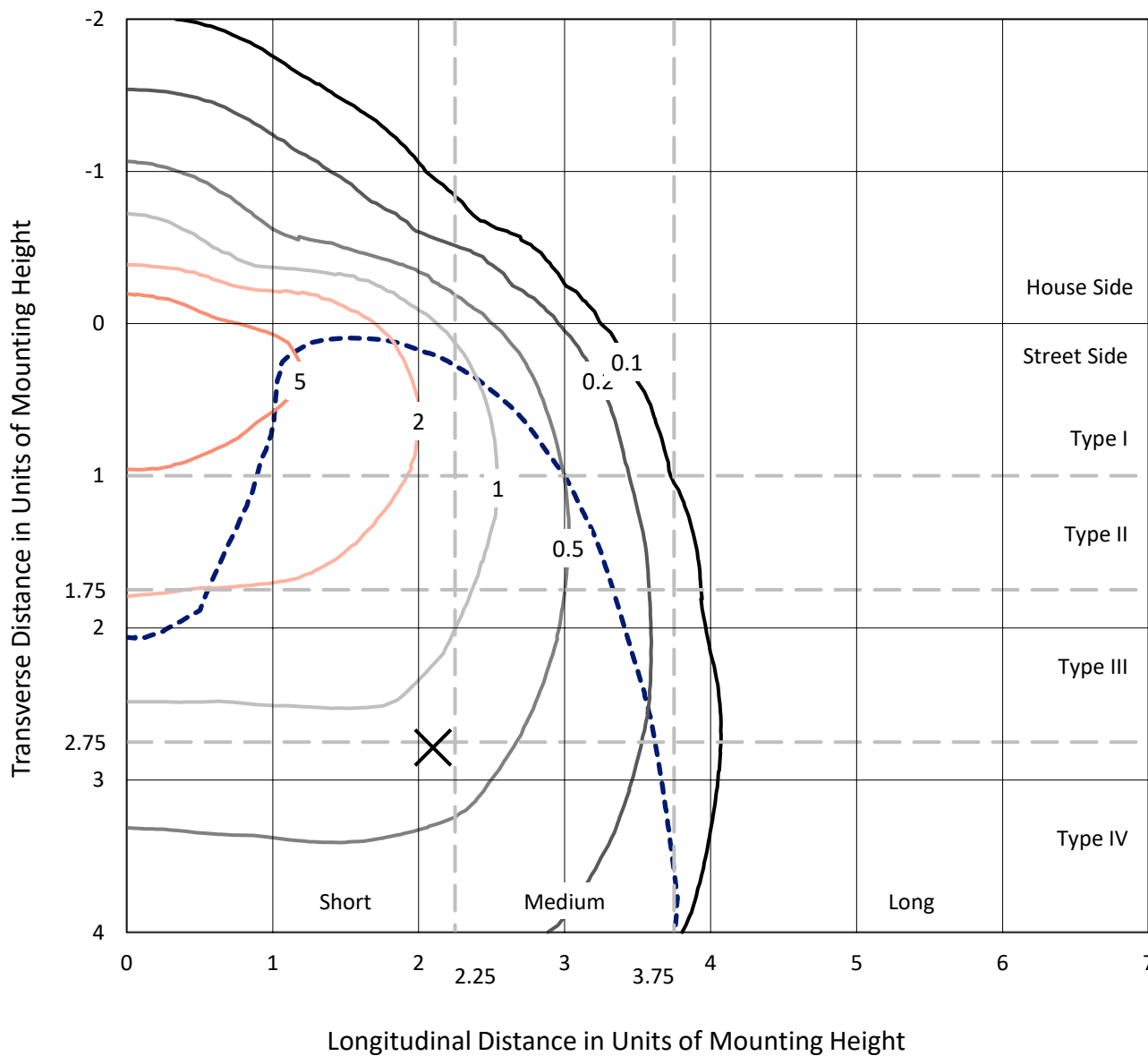
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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd

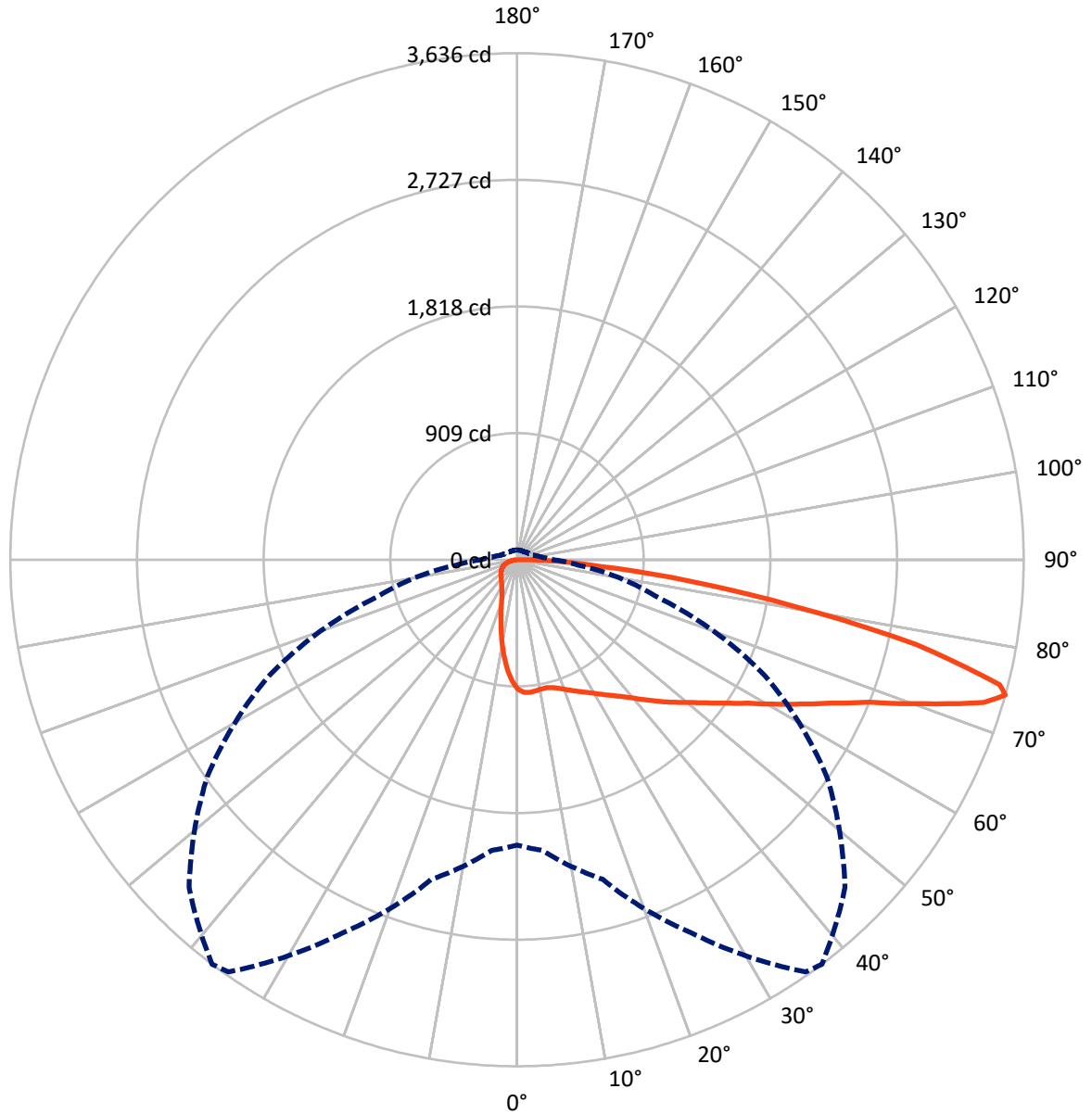
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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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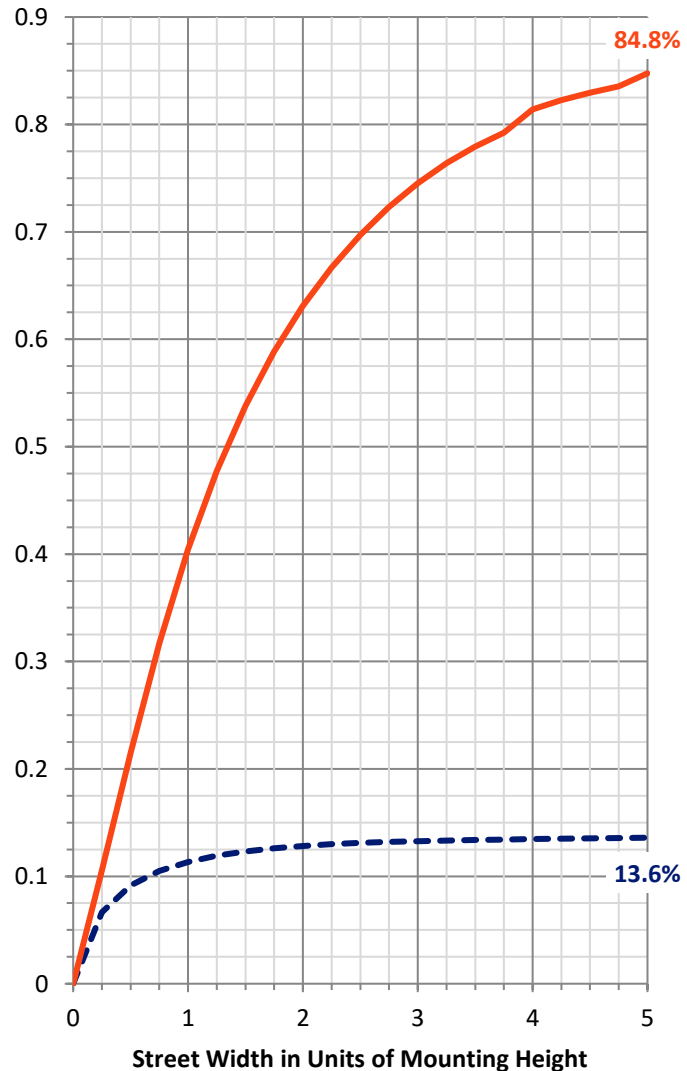
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 726.1    | 0.0    | 726.1  |
|                    | % Fixture | 13.8     | 0.0    | 13.8   |
| <b>Street Side</b> | Lumens    | 4550.9   | 0.0    | 4550.9 |
|                    | % Fixture | 86.2     | 0.0    | 86.2   |
| <b>Total</b>       | Lumens    | 5277.0   | 0.0    | 5277.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.9   | 1.6       |
| 10°-20°   | 209.9  | 4.0       |
| 20°-30°   | 323.4  | 6.1       |
| 30°-40°   | 470.2  | 8.9       |
| 40°-50°   | 692.1  | 13.1      |
| 50°-60°   | 971.9  | 18.4      |
| 60°-70°   | 1230.2 | 23.3      |
| 70°-80°   | 1083.2 | 20.5      |
| 80°-90°   | 214.2  | 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°    | 5277.0 | 100.0     |
| 0°-180°   | 5277.0 | 100.0     |

**Coefficient of Utilization**



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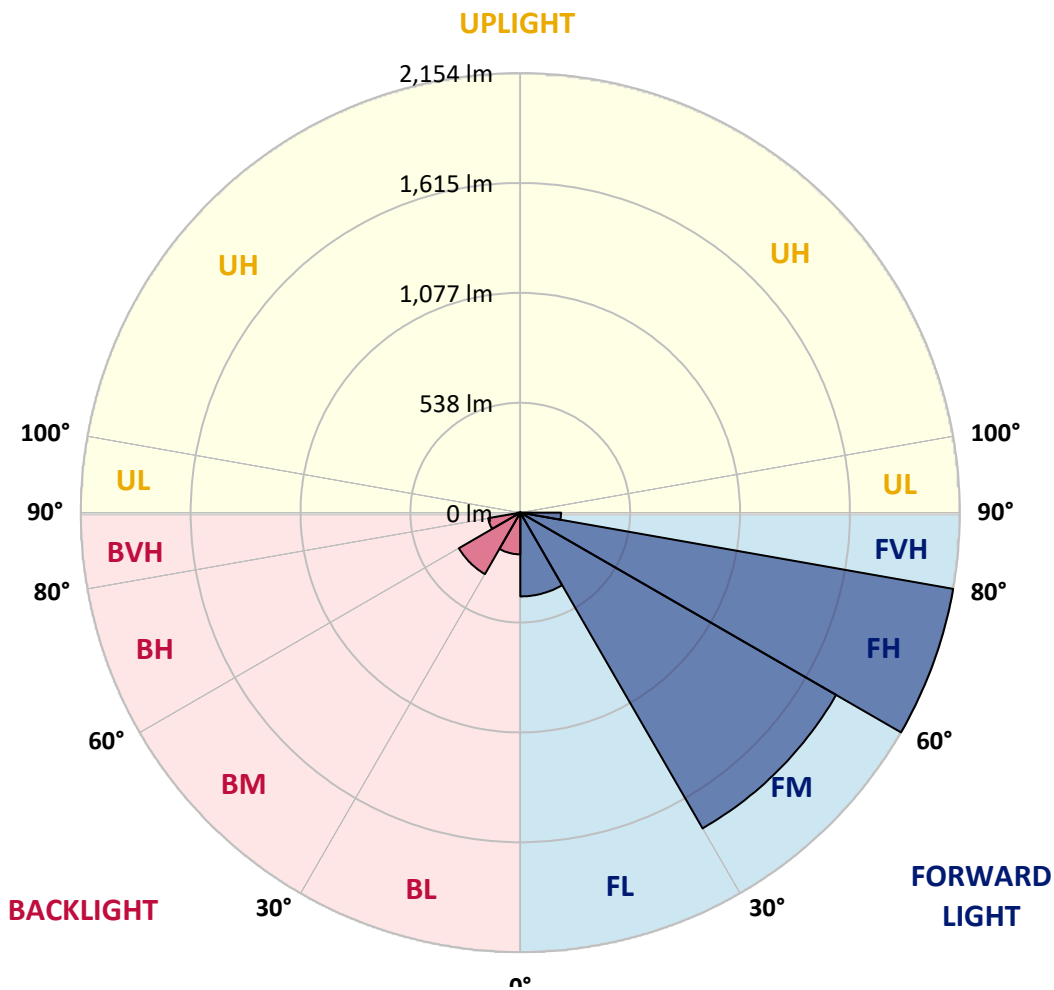
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 410.6  | 7.8       |                         |      |         |
| FM (30°-60°)   | 1786.8 | 33.9      |                         |      |         |
| FH (60°-80°)   | 2153.8 | 40.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 199.7  | 3.8       |                         |      | G2/225  |
| BL (0°-30°)    | 204.5  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 347.5  | 6.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 159.6  | 3.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 14.5   | 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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 37°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 929.8  | 929.8  | 929.8  | 929.8  | 929.8  | 929.8  | 929.8  | 929.8  | 929.8  | 929.8  | 929.8  |
| 2.5°  | 961.6  | 961.8  | 961.6  | 960.1  | 956.6  | 953.6  | 951.2  | 947.6  | 939.8  | 933.9  | 925.0  |
| 5°    | 970.7  | 969.6  | 968.8  | 966.0  | 960.5  | 957.1  | 952.5  | 945.8  | 932.9  | 921.1  | 906.6  |
| 7.5°  | 966.4  | 965.1  | 963.4  | 960.1  | 953.8  | 951.0  | 944.5  | 935.7  | 920.3  | 904.7  | 883.9  |
| 10°   | 953.2  | 952.8  | 952.1  | 951.3  | 946.0  | 943.7  | 937.8  | 928.5  | 913.2  | 894.3  | 869.9  |
| 12.5° | 938.5  | 939.5  | 942.4  | 946.3  | 943.9  | 942.8  | 939.1  | 932.8  | 917.1  | 896.7  | 867.3  |
| 15°   | 929.2  | 931.8  | 939.8  | 950.0  | 952.1  | 951.7  | 950.8  | 946.7  | 930.2  | 907.5  | 873.3  |
| 17.5° | 926.1  | 930.3  | 945.6  | 962.5  | 968.5  | 969.8  | 970.1  | 963.1  | 944.7  | 920.7  | 879.4  |
| 20°   | 931.8  | 937.2  | 959.5  | 982.8  | 992.2  | 993.0  | 991.3  | 979.0  | 958.4  | 932.0  | 882.8  |
| 22.5° | 949.3  | 954.1  | 982.0  | 1008.2 | 1019.0 | 1020.1 | 1015.1 | 996.5  | 972.9  | 945.4  | 887.4  |
| 25°   | 982.9  | 988.9  | 1016.8 | 1043.0 | 1048.6 | 1048.8 | 1041.5 | 1018.5 | 991.9  | 964.2  | 897.4  |
| 27.5° | 1026.8 | 1032.8 | 1057.9 | 1083.5 | 1080.5 | 1078.9 | 1069.0 | 1046.0 | 1016.6 | 990.0  | 915.3  |
| 30°   | 1075.7 | 1082.2 | 1106.0 | 1124.2 | 1117.2 | 1113.8 | 1105.8 | 1076.1 | 1051.0 | 1025.3 | 942.6  |
| 32.5° | 1126.3 | 1132.2 | 1153.0 | 1165.5 | 1156.6 | 1155.1 | 1143.0 | 1115.9 | 1095.8 | 1079.2 | 986.9  |
| 35°   | 1178.1 | 1182.4 | 1202.8 | 1209.9 | 1198.0 | 1197.6 | 1194.3 | 1169.4 | 1156.8 | 1164.6 | 1051.2 |
| 37.5° | 1231.1 | 1232.2 | 1249.7 | 1250.1 | 1246.5 | 1248.0 | 1251.6 | 1235.9 | 1239.5 | 1263.8 | 1134.8 |
| 40°   | 1278.3 | 1281.3 | 1293.9 | 1297.8 | 1304.0 | 1309.2 | 1326.8 | 1316.6 | 1343.9 | 1387.1 | 1238.9 |
| 42.5° | 1313.3 | 1319.0 | 1339.3 | 1349.3 | 1369.2 | 1377.4 | 1402.3 | 1411.8 | 1466.8 | 1531.5 | 1362.7 |
| 45°   | 1342.8 | 1351.7 | 1384.3 | 1404.9 | 1438.5 | 1452.9 | 1488.6 | 1520.3 | 1605.7 | 1688.2 | 1493.0 |
| 47.5° | 1374.8 | 1386.1 | 1426.8 | 1466.2 | 1512.0 | 1528.1 | 1593.0 | 1640.6 | 1753.8 | 1845.8 | 1615.9 |
| 50°   | 1421.8 | 1430.6 | 1470.3 | 1532.2 | 1589.3 | 1610.1 | 1699.9 | 1768.1 | 1904.4 | 1996.0 | 1722.4 |
| 52.5° | 1487.4 | 1484.1 | 1517.7 | 1604.5 | 1681.1 | 1706.8 | 1814.0 | 1903.8 | 2057.0 | 2131.9 | 1812.4 |
| 55°   | 1553.4 | 1547.8 | 1571.5 | 1680.2 | 1788.2 | 1815.1 | 1939.7 | 2040.1 | 2202.2 | 2254.2 | 1881.3 |
| 57.5° | 1626.8 | 1616.3 | 1636.1 | 1765.5 | 1910.1 | 1942.3 | 2080.4 | 2184.9 | 2344.9 | 2353.1 | 1925.2 |
| 60°   | 1702.5 | 1688.2 | 1710.5 | 1871.3 | 2065.0 | 2102.9 | 2245.1 | 2326.1 | 2479.5 | 2432.3 | 1939.3 |
| 62.5° | 1768.7 | 1758.6 | 1793.0 | 1989.3 | 2239.5 | 2281.2 | 2406.8 | 2476.3 | 2612.2 | 2465.2 | 1888.4 |
| 65°   | 1826.5 | 1828.2 | 1887.6 | 2122.0 | 2434.1 | 2478.6 | 2592.3 | 2661.5 | 2716.7 | 2445.7 | 1769.2 |
| 67.5° | 1895.4 | 1904.9 | 2006.4 | 2296.8 | 2679.1 | 2727.8 | 2862.2 | 2863.3 | 2775.0 | 2331.2 | 1534.7 |
| 70°   | 1996.0 | 2015.5 | 2169.8 | 2539.2 | 3027.5 | 3094.4 | 3198.1 | 2981.9 | 2693.1 | 2020.7 | 1207.5 |
| 72.5° | 2085.2 | 2121.7 | 2343.6 | 2816.5 | 3452.0 | 3502.8 | 3394.6 | 2913.5 | 2350.5 | 1514.4 | 752.3  |
| 74°   | 2049.0 | 2094.2 | 2375.2 | 2953.1 | 3611.9 | 3636.2 | 3328.2 | 2713.9 | 1959.8 | 1048.8 | 437.2  |
| 75°   | 1970.9 | 2020.0 | 2329.1 | 2951.8 | 3591.6 | 3578.1 | 3168.0 | 2485.8 | 1614.0 | 715.3  | 290.9  |
| 77.5° | 1590.6 | 1642.5 | 1962.6 | 2529.9 | 2944.9 | 2932.1 | 2433.6 | 1667.6 | 706.9  | 234.6  | 147.8  |
| 80°   | 924.8  | 964.4  | 1218.3 | 1606.6 | 1985.8 | 2009.0 | 1600.5 | 825.1  | 278.1  | 131.8  | 100.2  |
| 82.5° | 410.8  | 438.1  | 588.5  | 820.1  | 1198.4 | 1228.3 | 838.1  | 432.4  | 171.8  | 80.1   | 60.2   |
| 85°   | 269.5  | 289.8  | 357.3  | 390.5  | 570.7  | 591.1  | 410.2  | 336.6  | 113.4  | 44.1   | 44.2   |
| 87.5° | 193.9  | 213.4  | 265.4  | 231.8  | 261.9  | 248.0  | 223.2  | 311.5  | 45.5   | 25.1   | 14.9   |
| 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°    | 929.8  | 929.8  | 929.8 | 929.8 | 929.8 | 929.8 | 929.8 | 929.8 | 929.8 | 929.8 | 929.8 |
| 2.5°  | 921.1  | 918.1  | 911.4 | 898.7 | 891.7 | 885.7 | 875.9 | 870.1 | 867.5 | 867.3 | 868.4 |
| 5°    | 898.2  | 891.3  | 874.0 | 852.8 | 835.9 | 820.5 | 801.3 | 789.8 | 781.6 | 776.8 | 778.1 |
| 7.5°  | 871.6  | 860.8  | 833.7 | 799.9 | 772.7 | 742.8 | 713.2 | 695.6 | 681.8 | 671.6 | 673.5 |
| 10°   | 853.4  | 838.5  | 798.9 | 750.2 | 705.1 | 661.6 | 620.8 | 596.5 | 577.2 | 562.3 | 563.4 |
| 12.5° | 847.3  | 827.2  | 772.3 | 707.3 | 643.9 | 584.4 | 531.3 | 493.9 | 474.0 | 457.1 | 458.4 |
| 15°   | 848.2  | 821.2  | 750.0 | 668.6 | 588.9 | 514.0 | 449.5 | 405.8 | 378.8 | 367.1 | 367.3 |
| 17.5° | 848.9  | 814.4  | 726.6 | 627.2 | 534.4 | 448.2 | 378.1 | 333.8 | 308.4 | 297.6 | 297.8 |
| 20°   | 846.5  | 803.2  | 697.6 | 579.6 | 477.5 | 387.8 | 319.9 | 282.4 | 263.0 | 254.7 | 254.7 |
| 22.5° | 843.4  | 790.0  | 664.9 | 531.8 | 421.4 | 335.3 | 278.3 | 249.6 | 238.5 | 232.9 | 232.7 |
| 25°   | 844.8  | 780.2  | 631.4 | 482.7 | 369.7 | 293.5 | 250.6 | 231.6 | 224.2 | 220.6 | 220.5 |
| 27.5° | 852.8  | 775.5  | 600.6 | 433.9 | 324.6 | 262.1 | 232.0 | 218.6 | 213.8 | 211.5 | 211.5 |
| 30°   | 867.3  | 775.5  | 568.4 | 392.2 | 287.0 | 238.9 | 217.7 | 208.6 | 205.2 | 203.7 | 203.7 |
| 32.5° | 892.6  | 779.8  | 537.4 | 350.9 | 257.1 | 220.6 | 205.8 | 199.6 | 197.0 | 196.3 | 196.3 |
| 35°   | 936.1  | 794.3  | 507.1 | 311.9 | 232.9 | 205.8 | 194.4 | 190.9 | 189.0 | 188.9 | 189.4 |
| 37.5° | 997.3  | 823.8  | 478.6 | 283.1 | 215.8 | 193.7 | 185.0 | 182.2 | 181.1 | 182.0 | 182.7 |
| 40°   | 1074.2 | 864.0  | 452.8 | 257.1 | 202.8 | 184.0 | 176.2 | 174.4 | 173.8 | 175.1 | 176.2 |
| 42.5° | 1167.2 | 918.3  | 431.6 | 238.3 | 192.8 | 175.8 | 168.8 | 166.6 | 166.0 | 167.5 | 169.0 |
| 45°   | 1267.7 | 976.6  | 416.7 | 224.4 | 185.0 | 169.7 | 162.3 | 159.9 | 158.7 | 159.5 | 161.2 |
| 47.5° | 1359.2 | 1031.8 | 410.8 | 214.5 | 177.5 | 164.5 | 156.5 | 153.5 | 151.7 | 151.3 | 152.6 |
| 50°   | 1436.3 | 1072.9 | 413.6 | 208.6 | 171.6 | 158.7 | 150.9 | 147.6 | 144.8 | 143.1 | 144.1 |
| 52.5° | 1492.5 | 1098.8 | 416.2 | 206.0 | 166.9 | 152.4 | 144.8 | 141.6 | 137.9 | 135.1 | 135.1 |
| 55°   | 1533.2 | 1104.7 | 410.4 | 203.9 | 163.4 | 145.5 | 137.9 | 135.0 | 131.2 | 128.1 | 127.7 |
| 57.5° | 1549.1 | 1088.0 | 389.1 | 200.9 | 161.0 | 139.0 | 130.7 | 128.4 | 125.3 | 121.6 | 121.4 |
| 60°   | 1527.6 | 1036.3 | 347.8 | 194.6 | 157.8 | 133.6 | 123.4 | 121.9 | 120.5 | 116.9 | 116.7 |
| 62.5° | 1441.0 | 922.9  | 294.4 | 181.8 | 151.5 | 127.9 | 116.7 | 117.5 | 117.7 | 115.2 | 114.9 |
| 65°   | 1283.9 | 767.1  | 242.4 | 165.1 | 142.0 | 121.0 | 109.9 | 113.4 | 115.4 | 115.1 | 114.5 |
| 67.5° | 1055.6 | 597.1  | 205.4 | 147.4 | 129.6 | 111.5 | 102.4 | 106.5 | 108.2 | 109.5 | 109.1 |
| 70°   | 783.5  | 421.0  | 169.9 | 128.8 | 114.5 | 100.4 | 92.8  | 94.8  | 93.7  | 95.2  | 95.7  |
| 72.5° | 436.8  | 252.6  | 138.5 | 110.2 | 98.9  | 87.4  | 82.0  | 81.6  | 79.2  | 79.2  | 79.2  |
| 74°   | 262.1  | 185.3  | 121.8 | 98.7  | 89.4  | 78.8  | 74.2  | 72.5  | 70.3  | 70.4  | 70.3  |
| 75°   | 210.8  | 159.3  | 111.7 | 91.1  | 82.7  | 73.8  | 69.1  | 66.9  | 65.2  | 65.2  | 65.1  |
| 77.5° | 133.1  | 121.0  | 90.0  | 72.5  | 66.2  | 60.8  | 57.6  | 54.6  | 54.6  | 54.5  | 54.3  |
| 80°   | 100.6  | 96.3   | 70.1  | 54.8  | 50.7  | 46.7  | 44.6  | 43.3  | 43.3  | 43.9  | 43.7  |
| 82.5° | 69.0   | 72.5   | 49.3  | 38.3  | 36.2  | 33.3  | 32.9  | 33.1  | 32.5  | 31.8  | 31.6  |
| 85°   | 50.4   | 54.5   | 33.3  | 24.2  | 22.1  | 20.3  | 21.7  | 22.5  | 21.6  | 19.9  | 19.1  |
| 87.5° | 19.3   | 35.7   | 17.8  | 10.0  | 9.3   | 8.0   | 9.3   | 9.7   | 10.4  | 8.2   | 8.4   |
| 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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--- HS — SS

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