

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: P386080

Luminaire Tested: **GWC-SA1D-722-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386080  
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-SA1D-722-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 4944 lumens  
Efficiency: N/A  
Efficacy: 74.9 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

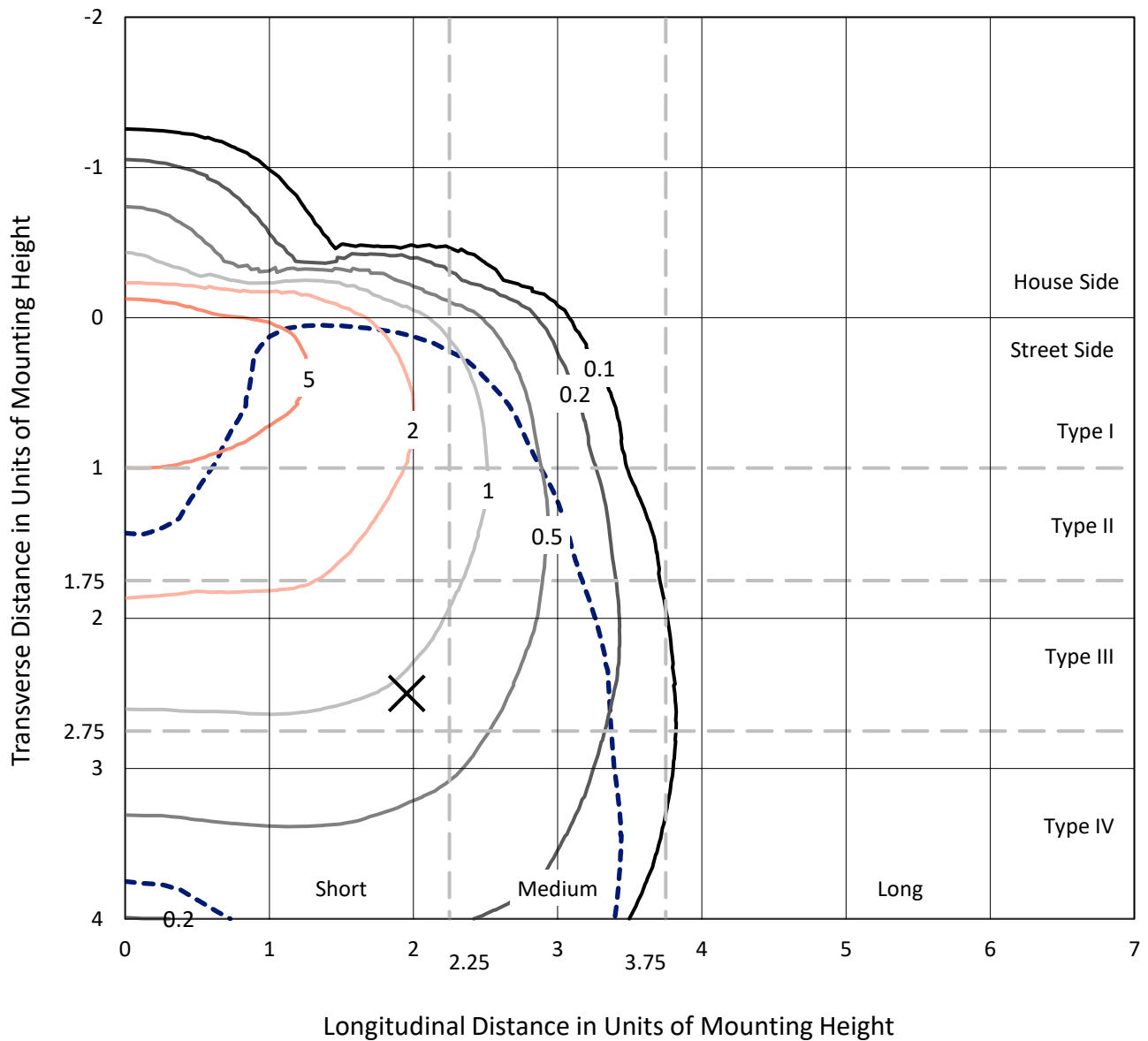
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

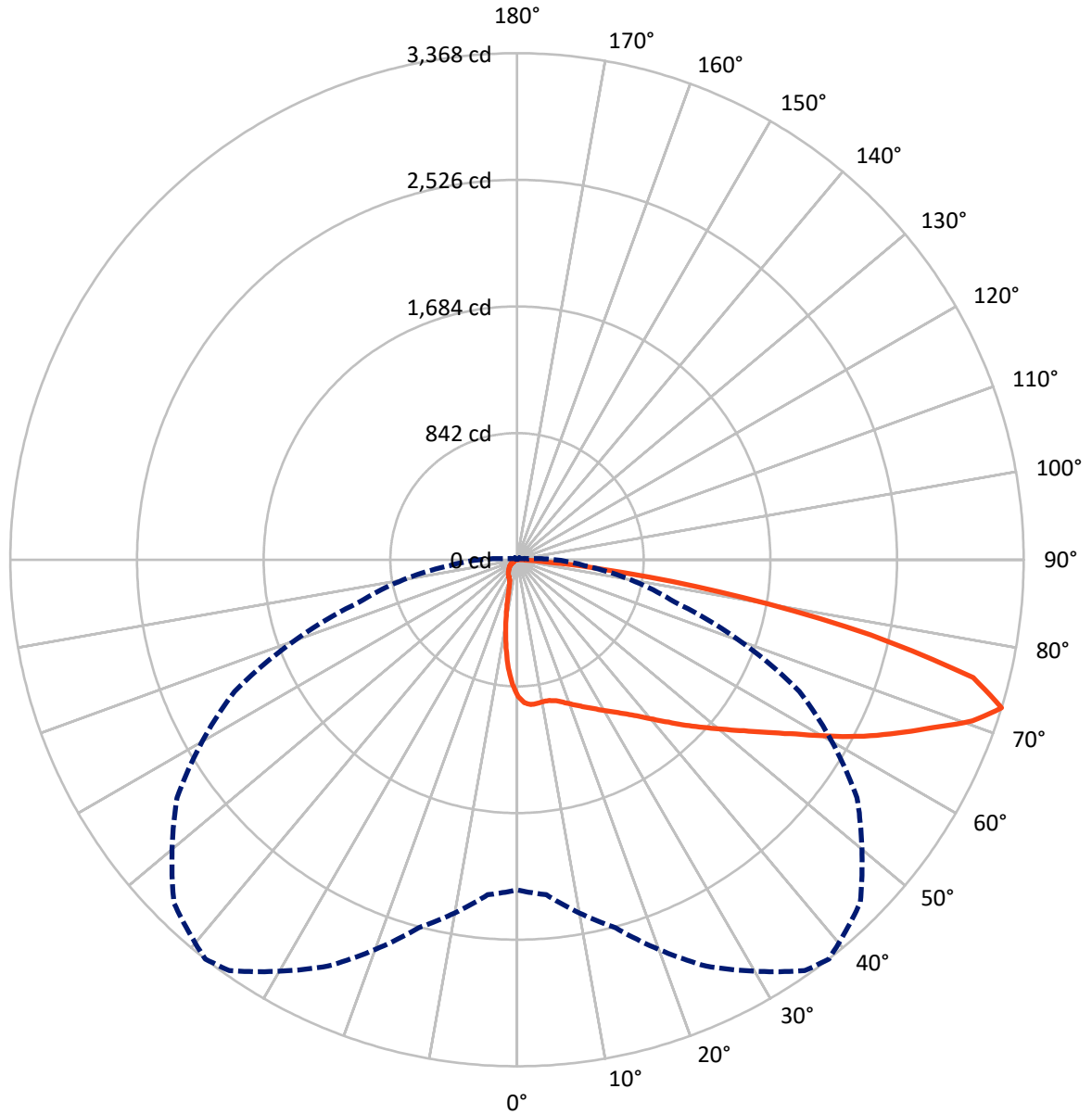
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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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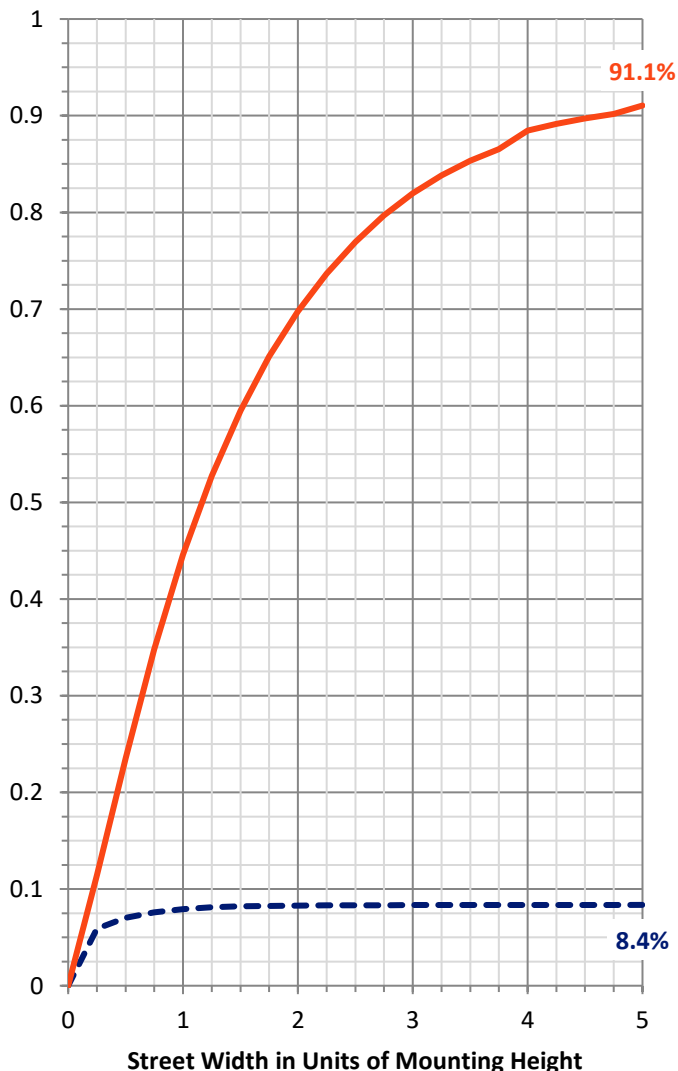
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 416.1    | 0.0    | 416.1  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 4527.9   | 0.0    | 4527.9 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 4944.0   | 0.0    | 4944.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.5   | 1.6       |
| 10°-20°   | 189.5  | 3.8       |
| 20°-30°   | 301.3  | 6.1       |
| 30°-40°   | 453.0  | 9.2       |
| 40°-50°   | 691.1  | 14.0      |
| 50°-60°   | 976.8  | 19.8      |
| 60°-70°   | 1225.2 | 24.8      |
| 70°-80°   | 916.1  | 18.5      |
| 80°-90°   | 113.6  | 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°    | 4944.0 | 100.0     |
| 0°-180°   | 4944.0 | 100.0     |

**Coefficient of Utilization**



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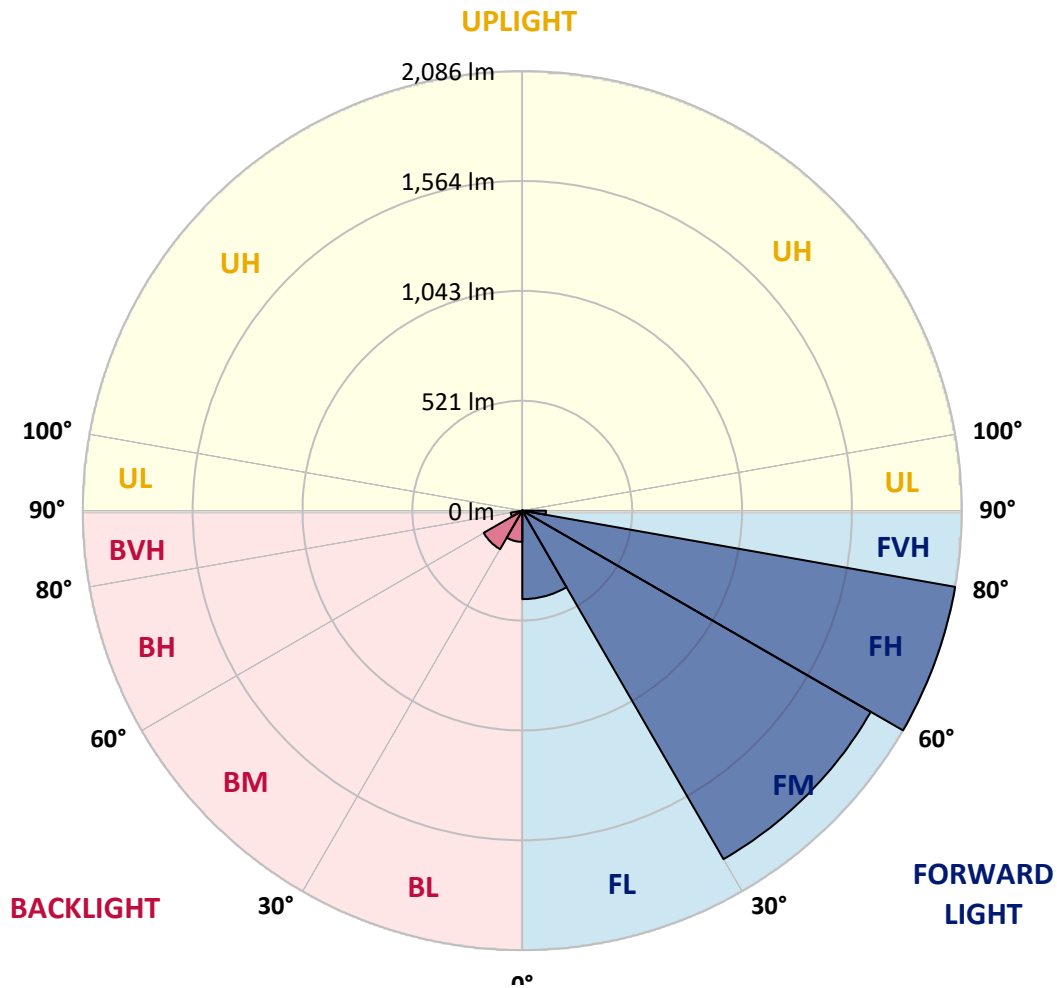
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 420.1  | 8.5       |                         |      |         |
| FM (30°-60°)   | 1909.6 | 38.6      |                         |      |         |
| FH (60°-80°)   | 2085.7 | 42.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 112.5  | 2.3       |                         |      | G2/225  |
| BL (0°-30°)    | 148.1  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 211.3  | 4.3       | B0/220                  |      |         |
| BH (60°-80°)   | 55.6   | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.1    | 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°    | 909.2  | 909.2  | 909.2  | 909.2  | 909.2  | 909.2  | 909.2  | 909.2  | 909.2  | 909.2  | 909.2  |
| 2.5°  | 965.0  | 965.2  | 963.0  | 959.3  | 954.6  | 952.1  | 948.0  | 941.4  | 934.4  | 921.9  | 908.4  |
| 5°    | 984.7  | 984.7  | 981.9  | 976.9  | 969.3  | 967.1  | 959.3  | 948.8  | 934.4  | 914.1  | 891.3  |
| 7.5°  | 982.7  | 983.1  | 979.2  | 974.1  | 966.5  | 964.4  | 955.0  | 943.3  | 925.4  | 900.8  | 871.6  |
| 10°   | 972.0  | 973.0  | 970.0  | 967.5  | 960.5  | 958.3  | 949.4  | 937.7  | 919.9  | 893.6  | 860.1  |
| 12.5° | 961.1  | 962.2  | 963.2  | 965.4  | 961.1  | 960.3  | 953.3  | 943.5  | 926.4  | 899.1  | 861.3  |
| 15°   | 954.2  | 956.2  | 963.6  | 972.4  | 973.5  | 972.6  | 968.1  | 958.9  | 941.6  | 913.3  | 870.2  |
| 17.5° | 954.2  | 957.4  | 972.8  | 989.7  | 995.6  | 996.2  | 992.3  | 979.4  | 958.9  | 928.5  | 878.4  |
| 20°   | 962.2  | 966.7  | 990.7  | 1014.5 | 1024.4 | 1024.4 | 1016.8 | 998.7  | 974.7  | 942.2  | 883.9  |
| 22.5° | 982.7  | 988.6  | 1018.8 | 1046.3 | 1056.8 | 1054.6 | 1044.3 | 1018.0 | 991.1  | 957.8  | 890.9  |
| 25°   | 1023.1 | 1027.7 | 1059.1 | 1086.8 | 1093.2 | 1088.0 | 1075.1 | 1041.4 | 1012.1 | 979.0  | 903.6  |
| 27.5° | 1075.3 | 1075.9 | 1108.4 | 1131.8 | 1127.9 | 1124.4 | 1108.1 | 1070.8 | 1042.2 | 1009.2 | 925.6  |
| 30°   | 1132.6 | 1132.6 | 1161.1 | 1179.0 | 1167.1 | 1164.2 | 1148.0 | 1106.3 | 1080.8 | 1050.2 | 956.8  |
| 32.5° | 1188.0 | 1190.5 | 1213.7 | 1225.0 | 1211.6 | 1208.8 | 1192.9 | 1151.3 | 1132.2 | 1112.9 | 1005.5 |
| 35°   | 1241.6 | 1243.5 | 1265.4 | 1271.6 | 1258.9 | 1259.7 | 1248.4 | 1213.1 | 1205.9 | 1203.4 | 1078.8 |
| 37.5° | 1293.6 | 1294.0 | 1316.3 | 1320.2 | 1313.9 | 1320.9 | 1321.9 | 1290.7 | 1304.0 | 1323.9 | 1182.1 |
| 40°   | 1341.0 | 1341.4 | 1363.6 | 1373.6 | 1384.5 | 1393.6 | 1401.6 | 1384.9 | 1429.1 | 1475.3 | 1305.1 |
| 42.5° | 1379.0 | 1383.3 | 1411.4 | 1430.5 | 1459.3 | 1476.5 | 1498.3 | 1497.4 | 1577.9 | 1647.3 | 1453.7 |
| 45°   | 1412.4 | 1419.8 | 1459.0 | 1492.5 | 1541.8 | 1569.3 | 1603.4 | 1630.1 | 1745.5 | 1838.9 | 1604.2 |
| 47.5° | 1456.6 | 1463.6 | 1508.3 | 1563.1 | 1628.9 | 1665.0 | 1721.5 | 1779.2 | 1929.7 | 2027.0 | 1751.2 |
| 50°   | 1518.8 | 1515.7 | 1559.9 | 1638.5 | 1722.9 | 1770.3 | 1850.8 | 1937.3 | 2112.4 | 2190.8 | 1837.7 |
| 52.5° | 1585.1 | 1583.9 | 1616.5 | 1720.4 | 1833.8 | 1889.2 | 1995.6 | 2100.7 | 2287.1 | 2303.8 | 1877.3 |
| 55°   | 1667.3 | 1658.4 | 1685.9 | 1813.9 | 1965.4 | 2024.9 | 2150.2 | 2262.5 | 2426.3 | 2367.4 | 1897.2 |
| 57.5° | 1753.3 | 1738.7 | 1765.0 | 1918.0 | 2113.8 | 2184.3 | 2321.4 | 2420.2 | 2518.9 | 2410.9 | 1897.0 |
| 60°   | 1842.2 | 1824.9 | 1856.2 | 2048.1 | 2298.2 | 2379.7 | 2507.0 | 2526.7 | 2605.4 | 2432.9 | 1883.0 |
| 62.5° | 1916.5 | 1906.3 | 1952.7 | 2187.3 | 2504.2 | 2584.2 | 2647.3 | 2623.7 | 2678.3 | 2450.0 | 1850.4 |
| 65°   | 1995.2 | 1995.8 | 2070.7 | 2349.8 | 2723.0 | 2777.0 | 2782.4 | 2749.3 | 2739.3 | 2446.5 | 1739.9 |
| 67.5° | 2101.5 | 2111.4 | 2236.4 | 2570.3 | 2936.0 | 2977.6 | 2977.2 | 2885.5 | 2783.8 | 2307.7 | 1495.0 |
| 70°   | 2214.0 | 2237.2 | 2427.4 | 2822.6 | 3168.4 | 3210.7 | 3188.9 | 2972.1 | 2621.2 | 1866.0 | 1058.0 |
| 72.5° | 2195.1 | 2235.4 | 2533.5 | 2981.7 | 3335.3 | 3367.6 | 3226.1 | 2759.2 | 2071.7 | 1084.5 | 450.5  |
| 75°   | 1693.5 | 1740.1 | 2323.1 | 2824.1 | 3160.2 | 3131.2 | 2771.9 | 2147.1 | 1132.2 | 302.7  | 101.4  |
| 77.5° | 894.6  | 919.5  | 1534.6 | 2151.4 | 2464.1 | 2403.6 | 1952.7 | 1191.1 | 345.2  | 74.9   | 45.6   |
| 80°   | 468.6  | 474.3  | 668.7  | 1220.7 | 1520.9 | 1521.3 | 1157.2 | 523.2  | 142.3  | 38.4   | 30.6   |
| 82.5° | 250.9  | 255.8  | 353.4  | 564.0  | 796.9  | 722.3  | 443.1  | 287.9  | 82.7   | 21.8   | 29.4   |
| 85°   | 60.4   | 61.4   | 200.4  | 257.7  | 313.3  | 223.8  | 131.6  | 241.7  | 22.4   | 12.7   | 23.8   |
| 87.5° | 23.2   | 23.6   | 74.3   | 111.5  | 79.9   | 51.7   | 61.6   | 90.1   | 2.9    | 4.9    | 3.7    |
| 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°    | 909.2  | 909.2  | 909.2 | 909.2 | 909.2 | 909.2 | 909.2 | 909.2 | 909.2 | 909.2 | 909.2 |
| 2.5°  | 900.2  | 894.8  | 881.7 | 865.0 | 850.3 | 839.6 | 823.6 | 813.1 | 806.1 | 805.9 | 803.2 |
| 5°    | 877.4  | 866.5  | 838.1 | 804.5 | 773.9 | 746.4 | 713.9 | 688.3 | 669.2 | 666.1 | 659.5 |
| 7.5°  | 852.9  | 835.1  | 791.5 | 739.0 | 687.6 | 635.5 | 574.9 | 537.3 | 505.1 | 489.7 | 488.1 |
| 10°   | 837.9  | 812.9  | 751.1 | 675.1 | 594.6 | 509.8 | 430.6 | 375.7 | 336.1 | 324.8 | 316.4 |
| 12.5° | 834.9  | 801.8  | 719.9 | 615.2 | 500.2 | 388.1 | 300.4 | 242.1 | 210.5 | 200.4 | 197.7 |
| 15°   | 837.9  | 796.7  | 693.6 | 555.8 | 404.5 | 275.3 | 201.6 | 167.8 | 155.8 | 153.0 | 152.8 |
| 17.5° | 839.8  | 790.5  | 663.8 | 489.9 | 311.7 | 196.7 | 154.4 | 144.5 | 142.7 | 142.5 | 142.9 |
| 20°   | 839.6  | 781.1  | 628.3 | 416.4 | 231.8 | 154.6 | 139.6 | 137.6 | 137.2 | 137.4 | 137.2 |
| 22.5° | 838.1  | 770.0  | 589.3 | 340.6 | 175.1 | 138.2 | 133.3 | 132.0 | 131.8 | 131.8 | 131.8 |
| 25°   | 840.8  | 761.1  | 546.4 | 268.2 | 144.3 | 130.6 | 127.5 | 126.5 | 126.3 | 126.3 | 125.9 |
| 27.5° | 850.5  | 756.2  | 499.4 | 206.4 | 130.4 | 123.8 | 121.3 | 121.1 | 120.5 | 120.3 | 120.7 |
| 30°   | 866.1  | 756.2  | 447.8 | 160.6 | 122.0 | 116.8 | 115.0 | 114.6 | 114.4 | 114.2 | 114.4 |
| 32.5° | 893.6  | 762.0  | 391.6 | 133.5 | 114.0 | 109.0 | 107.8 | 108.4 | 107.8 | 107.8 | 107.8 |
| 35°   | 943.3  | 779.2  | 332.6 | 116.4 | 105.5 | 101.4 | 100.2 | 101.0 | 100.6 | 100.6 | 100.4 |
| 37.5° | 1015.7 | 811.2  | 273.3 | 106.2 | 98.1  | 93.8  | 92.2  | 93.4  | 93.0  | 93.0  | 92.8  |
| 40°   | 1104.0 | 857.9  | 216.8 | 98.4  | 91.0  | 86.4  | 85.0  | 85.6  | 84.6  | 84.6  | 85.0  |
| 42.5° | 1213.1 | 917.0  | 167.5 | 90.8  | 83.8  | 79.5  | 78.6  | 78.0  | 76.2  | 75.1  | 75.4  |
| 45°   | 1334.2 | 978.6  | 130.6 | 83.4  | 77.0  | 73.5  | 72.3  | 70.6  | 67.6  | 65.5  | 65.7  |
| 47.5° | 1442.4 | 1026.0 | 106.2 | 76.2  | 70.8  | 68.2  | 66.3  | 63.2  | 58.7  | 56.3  | 56.5  |
| 50°   | 1499.3 | 1033.2 | 90.3  | 69.0  | 65.1  | 62.4  | 59.7  | 55.0  | 49.7  | 47.0  | 46.8  |
| 52.5° | 1513.9 | 999.5  | 78.6  | 62.4  | 59.3  | 56.3  | 52.8  | 46.4  | 40.4  | 37.6  | 37.2  |
| 55°   | 1519.2 | 948.2  | 68.2  | 56.3  | 53.2  | 49.7  | 45.2  | 38.0  | 32.4  | 29.6  | 29.4  |
| 57.5° | 1501.6 | 871.6  | 60.0  | 50.7  | 47.0  | 42.7  | 37.2  | 30.4  | 25.0  | 22.8  | 22.8  |
| 60°   | 1462.3 | 767.9  | 53.6  | 44.8  | 40.7  | 35.7  | 30.0  | 23.6  | 18.7  | 16.8  | 16.8  |
| 62.5° | 1384.1 | 633.6  | 47.6  | 38.6  | 34.7  | 29.6  | 24.2  | 17.9  | 13.1  | 12.1  | 12.3  |
| 65°   | 1236.5 | 480.7  | 41.7  | 33.1  | 29.6  | 24.4  | 18.9  | 12.7  | 8.8   | 8.8   | 9.2   |
| 67.5° | 1008.4 | 333.9  | 35.5  | 28.1  | 25.5  | 19.9  | 14.4  | 8.8   | 6.2   | 7.0   | 7.8   |
| 70°   | 667.5  | 187.3  | 30.4  | 23.2  | 21.8  | 15.8  | 10.7  | 6.0   | 4.9   | 6.6   | 8.0   |
| 72.5° | 251.9  | 72.9   | 25.5  | 18.7  | 18.9  | 12.1  | 7.6   | 4.5   | 4.5   | 7.2   | 9.4   |
| 75°   | 70.2   | 35.7   | 18.3  | 13.8  | 14.8  | 8.8   | 5.5   | 3.9   | 4.3   | 8.2   | 11.1  |
| 77.5° | 41.3   | 26.3   | 11.9  | 8.0   | 10.1  | 6.2   | 3.7   | 3.1   | 3.7   | 7.0   | 10.7  |
| 80°   | 33.3   | 14.0   | 7.0   | 4.1   | 5.5   | 3.5   | 2.5   | 1.8   | 1.0   | 2.7   | 5.5   |
| 82.5° | 33.3   | 8.4    | 3.3   | 2.9   | 2.9   | 1.8   | 1.2   | 0.8   | 0.2   | 0.0   | 1.4   |
| 85°   | 22.4   | 3.5    | 2.1   | 1.8   | 1.4   | 0.6   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.7    | 1.4    | 0.8   | 0.4   | 0.2   | 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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