

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: P385940

Luminaire Tested: **GWC-SA1C-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385940  
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-SA1C-740-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA 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: 6131 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

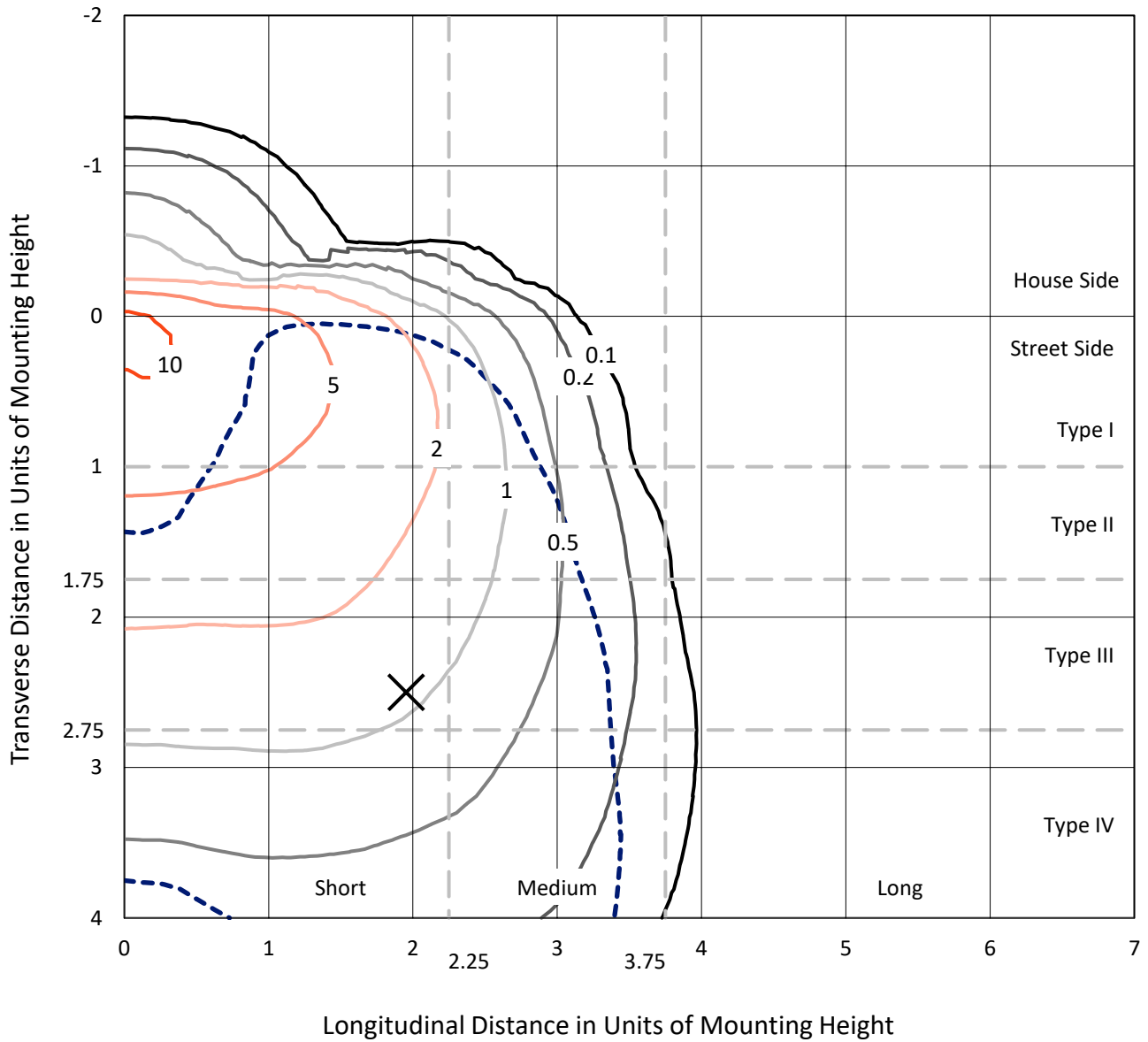
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

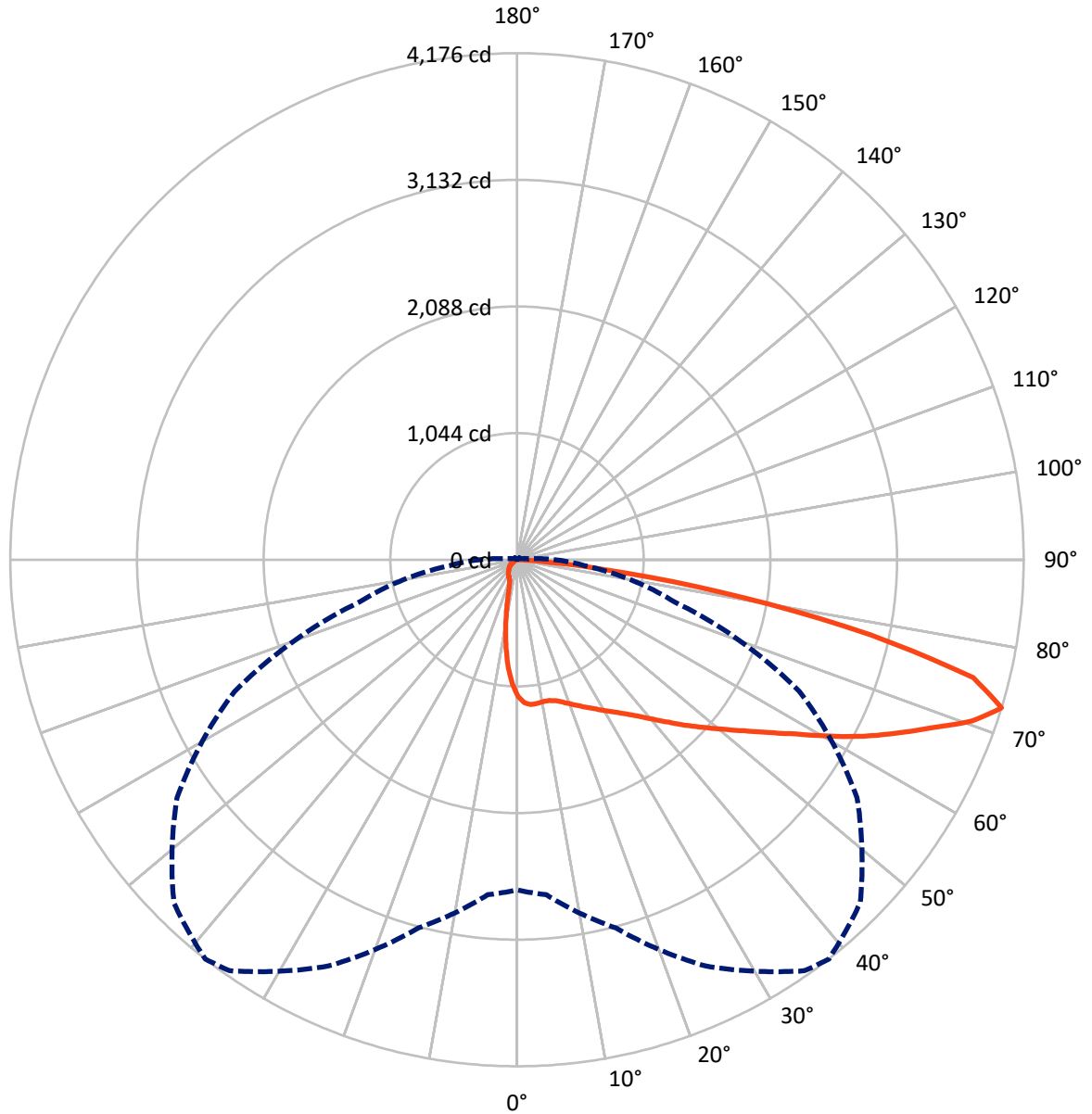
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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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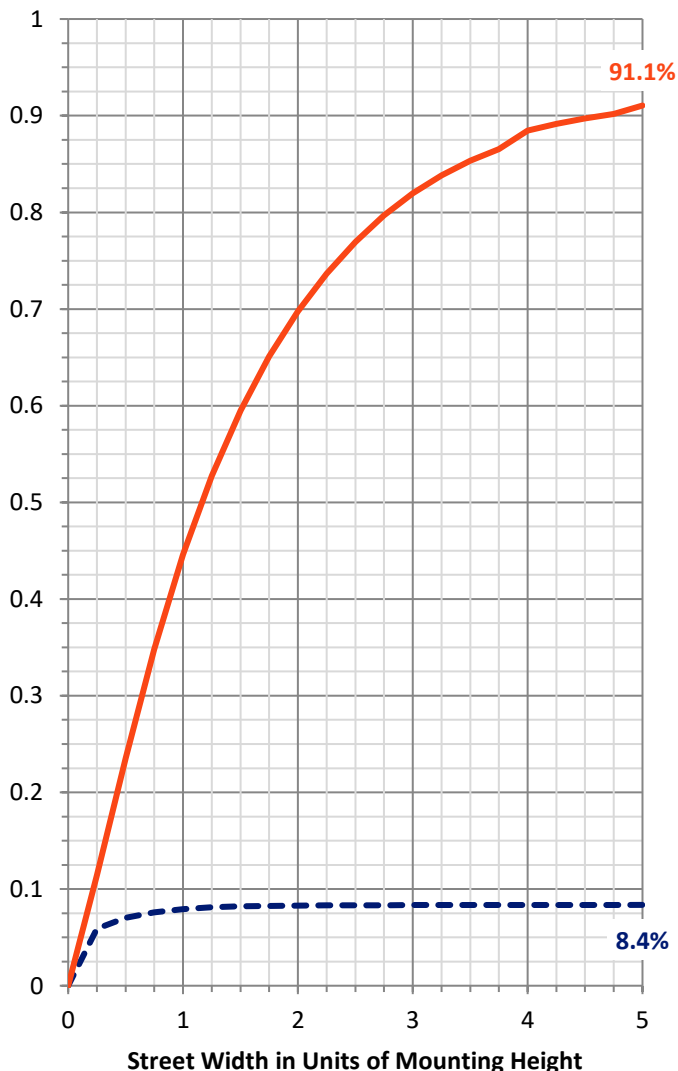
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 515.9    | 0.0    | 515.9  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 5615.1   | 0.0    | 5615.1 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 6131.0   | 0.0    | 6131.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.1   | 1.6       |
| 10°-20°   | 234.9  | 3.8       |
| 20°-30°   | 373.7  | 6.1       |
| 30°-40°   | 561.8  | 9.2       |
| 40°-50°   | 857.0  | 14.0      |
| 50°-60°   | 1211.3 | 19.8      |
| 60°-70°   | 1519.3 | 24.8      |
| 70°-80°   | 1136.0 | 18.5      |
| 80°-90°   | 140.9  | 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°    | 6131.0 | 100.0     |
| 0°-180°   | 6131.0 | 100.0     |

**Coefficient of Utilization**



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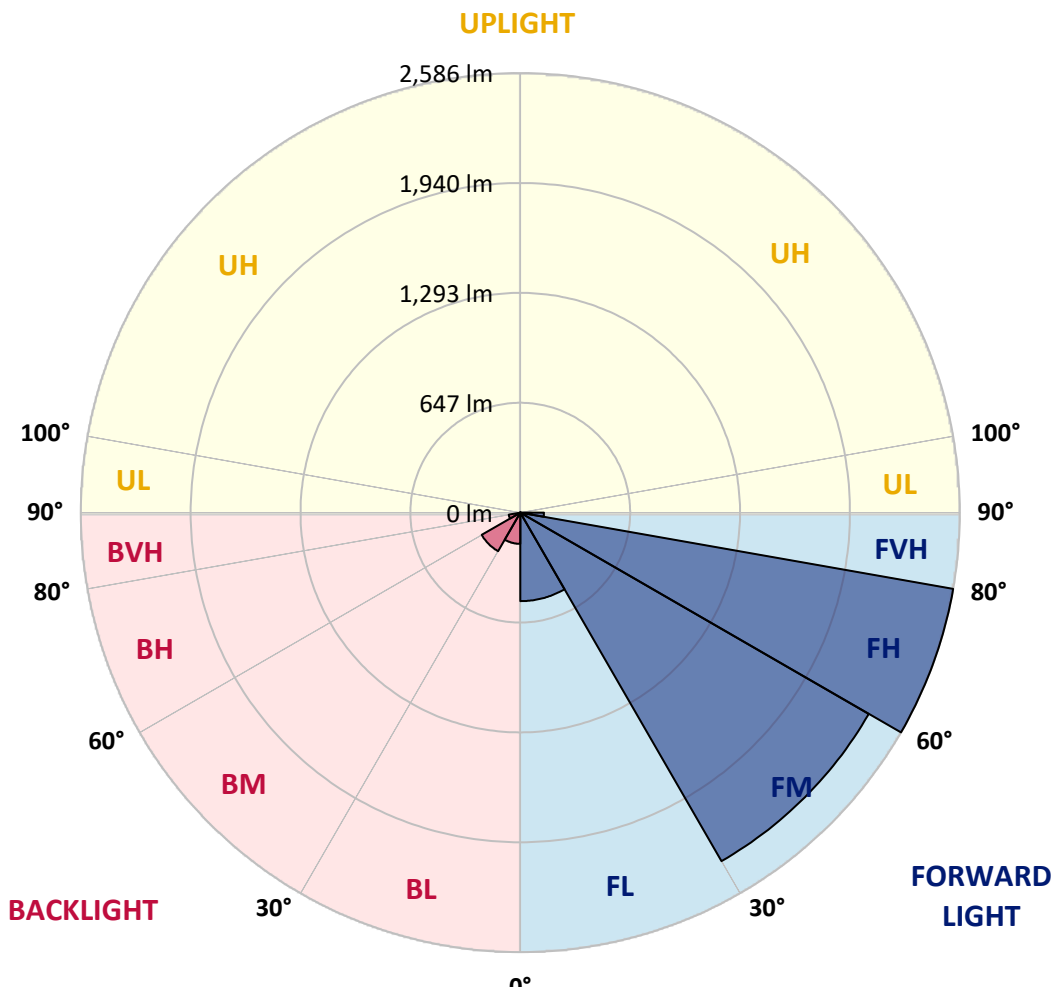
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 521.0  | 8.5       |                         |      |         |
| FM (30°-60°)   | 2368.1 | 38.6      |                         |      |         |
| FH (60°-80°)   | 2586.5 | 42.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 139.6  | 2.3       |                         |      | G2/225  |
| BL (0°-30°)    | 183.7  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 262.0  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 68.9   | 1.1       | B0/110                  |      | G0/110  |
| 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 |
| 2.5°  | 1196.7 | 1197.0 | 1194.2 | 1189.6 | 1183.7 | 1180.7 | 1175.6 | 1167.4 | 1158.8 | 1143.3 | 1126.5 |
| 5°    | 1221.2 | 1221.2 | 1217.6 | 1211.5 | 1202.1 | 1199.3 | 1189.6 | 1176.6 | 1158.8 | 1133.6 | 1105.3 |
| 7.5°  | 1218.6 | 1219.1 | 1214.3 | 1207.9 | 1198.5 | 1196.0 | 1184.3 | 1169.7 | 1147.6 | 1117.0 | 1080.9 |
| 10°   | 1205.4 | 1206.7 | 1202.8 | 1199.8 | 1191.1 | 1188.3 | 1177.4 | 1162.9 | 1140.7 | 1108.1 | 1066.6 |
| 12.5° | 1191.9 | 1193.2 | 1194.4 | 1197.2 | 1191.9 | 1190.9 | 1182.2 | 1170.0 | 1148.9 | 1115.0 | 1068.1 |
| 15°   | 1183.2 | 1185.8 | 1194.9 | 1205.9 | 1207.2 | 1206.1 | 1200.5 | 1189.1 | 1167.7 | 1132.6 | 1079.1 |
| 17.5° | 1183.2 | 1187.3 | 1206.4 | 1227.3 | 1234.7 | 1235.4 | 1230.6 | 1214.6 | 1189.1 | 1151.4 | 1089.3 |
| 20°   | 1193.2 | 1198.8 | 1228.6 | 1258.1 | 1270.3 | 1270.3 | 1260.9 | 1238.5 | 1208.7 | 1168.5 | 1096.2 |
| 22.5° | 1218.6 | 1226.0 | 1263.4 | 1297.6 | 1310.5 | 1307.7 | 1295.0 | 1262.4 | 1229.1 | 1187.8 | 1104.8 |
| 25°   | 1268.8 | 1274.4 | 1313.3 | 1347.7 | 1355.6 | 1349.2 | 1333.2 | 1291.4 | 1255.0 | 1214.0 | 1120.6 |
| 27.5° | 1333.5 | 1334.2 | 1374.5 | 1403.5 | 1398.6 | 1394.3 | 1374.2 | 1327.9 | 1292.5 | 1251.5 | 1147.8 |
| 30°   | 1404.5 | 1404.5 | 1439.9 | 1462.0 | 1447.3 | 1443.7 | 1423.6 | 1371.9 | 1340.3 | 1302.4 | 1186.5 |
| 32.5° | 1473.2 | 1476.3 | 1505.1 | 1519.1 | 1502.5 | 1499.0 | 1479.4 | 1427.7 | 1404.0 | 1380.1 | 1246.9 |
| 35°   | 1539.7 | 1542.0 | 1569.2 | 1576.9 | 1561.1 | 1562.1 | 1548.1 | 1504.3 | 1495.4 | 1492.3 | 1337.8 |
| 37.5° | 1604.1 | 1604.6 | 1632.4 | 1637.2 | 1629.3 | 1638.0 | 1639.3 | 1600.6 | 1617.1 | 1641.8 | 1465.9 |
| 40°   | 1662.9 | 1663.5 | 1691.0 | 1703.4 | 1716.9 | 1728.1 | 1738.1 | 1717.4 | 1772.2 | 1829.5 | 1618.4 |
| 42.5° | 1710.0 | 1715.4 | 1750.3 | 1774.0 | 1809.6 | 1831.0 | 1858.0 | 1857.0 | 1956.8 | 2042.8 | 1802.7 |
| 45°   | 1751.6 | 1760.7 | 1809.4 | 1850.9 | 1912.0 | 1946.1 | 1988.4 | 2021.5 | 2164.6 | 2280.4 | 1989.4 |
| 47.5° | 1806.3 | 1815.0 | 1870.5 | 1938.4 | 2019.9 | 2064.7 | 2134.8 | 2206.3 | 2392.9 | 2513.6 | 2171.7 |
| 50°   | 1883.4 | 1879.6 | 1934.4 | 2031.9 | 2136.5 | 2195.4 | 2295.2 | 2402.4 | 2619.6 | 2716.8 | 2278.9 |
| 52.5° | 1965.7 | 1964.2 | 2004.6 | 2133.5 | 2274.0 | 2342.8 | 2474.7 | 2605.0 | 2836.2 | 2856.9 | 2328.0 |
| 55°   | 2067.5 | 2056.6 | 2090.7 | 2249.3 | 2437.3 | 2511.1 | 2666.4 | 2805.7 | 3008.9 | 2935.8 | 2352.7 |
| 57.5° | 2174.2 | 2156.1 | 2188.7 | 2378.4 | 2621.3 | 2708.7 | 2878.8 | 3001.2 | 3123.7 | 2989.8 | 2352.5 |
| 60°   | 2284.5 | 2263.1 | 2301.8 | 2539.9 | 2850.0 | 2951.1 | 3108.9 | 3133.4 | 3230.9 | 3017.0 | 2335.1 |
| 62.5° | 2376.7 | 2363.9 | 2421.5 | 2712.5 | 3105.4 | 3204.7 | 3282.9 | 3253.6 | 3321.3 | 3038.2 | 2294.7 |
| 65°   | 2474.2 | 2474.9 | 2567.9 | 2913.9 | 3376.8 | 3443.8 | 3450.4 | 3409.4 | 3396.9 | 3033.8 | 2157.7 |
| 67.5° | 2606.1 | 2618.3 | 2773.4 | 3187.4 | 3640.9 | 3692.5 | 3692.0 | 3578.2 | 3452.2 | 2861.7 | 1853.9 |
| 70°   | 2745.6 | 2774.4 | 3010.2 | 3500.3 | 3929.1 | 3981.5 | 3954.5 | 3685.7 | 3250.5 | 2314.0 | 1312.1 |
| 72.5° | 2722.2 | 2772.1 | 3141.8 | 3697.6 | 4136.1 | 4176.1 | 4000.6 | 3421.6 | 2569.1 | 1344.9 | 558.6  |
| 75°   | 2100.1 | 2157.9 | 2880.8 | 3502.1 | 3918.9 | 3883.0 | 3437.4 | 2662.6 | 1404.0 | 375.3  | 125.8  |
| 77.5° | 1109.4 | 1140.2 | 1903.1 | 2667.9 | 3055.7 | 2980.6 | 2421.5 | 1477.1 | 428.0  | 92.9   | 56.5   |
| 80°   | 581.0  | 588.2  | 829.3  | 1513.7 | 1886.0 | 1886.5 | 1435.1 | 648.8  | 176.5  | 47.6   | 37.9   |
| 82.5° | 311.1  | 317.3  | 438.2  | 699.4  | 988.2  | 895.8  | 549.5  | 357.0  | 102.6  | 27.0   | 36.4   |
| 85°   | 74.9   | 76.1   | 248.5  | 319.6  | 388.6  | 277.5  | 163.2  | 299.7  | 27.8   | 15.8   | 29.5   |
| 87.5° | 28.8   | 29.3   | 92.2   | 138.3  | 99.0   | 64.2   | 76.4   | 111.8  | 3.6    | 6.1    | 4.6    |
| 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°    | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 | 1127.5 |
| 2.5°  | 1116.3 | 1109.6 | 1093.4 | 1072.7 | 1054.4 | 1041.2 | 1021.3 | 1008.3 | 999.6  | 999.4  | 996.1  |
| 5°    | 1088.0 | 1074.5 | 1039.4 | 997.6  | 959.7  | 925.6  | 885.3  | 853.5  | 829.8  | 826.0  | 817.8  |
| 7.5°  | 1057.7 | 1035.6 | 981.6  | 916.4  | 852.7  | 788.1  | 712.9  | 666.3  | 626.4  | 607.3  | 605.2  |
| 10°   | 1039.1 | 1008.1 | 931.4  | 837.2  | 737.4  | 632.2  | 533.9  | 466.0  | 416.8  | 402.8  | 392.4  |
| 12.5° | 1035.3 | 994.3  | 892.7  | 762.9  | 620.3  | 481.2  | 372.5  | 300.2  | 261.0  | 248.5  | 245.2  |
| 15°   | 1039.1 | 987.9  | 860.1  | 689.3  | 501.6  | 341.4  | 250.0  | 208.0  | 193.3  | 189.7  | 189.4  |
| 17.5° | 1041.4 | 980.3  | 823.2  | 607.5  | 386.5  | 243.9  | 191.5  | 179.3  | 177.0  | 176.7  | 177.2  |
| 20°   | 1041.2 | 968.6  | 779.1  | 516.4  | 287.5  | 191.7  | 173.1  | 170.6  | 170.1  | 170.3  | 170.1  |
| 22.5° | 1039.4 | 954.8  | 730.8  | 422.4  | 217.2  | 171.4  | 165.3  | 163.7  | 163.5  | 163.5  | 163.5  |
| 25°   | 1042.7 | 943.9  | 677.6  | 332.5  | 179.0  | 161.9  | 158.1  | 156.8  | 156.6  | 156.6  | 156.1  |
| 27.5° | 1054.6 | 937.8  | 619.2  | 255.9  | 161.7  | 153.5  | 150.5  | 150.2  | 149.5  | 149.2  | 149.7  |
| 30°   | 1074.0 | 937.8  | 555.3  | 199.1  | 151.2  | 144.9  | 142.6  | 142.1  | 141.8  | 141.6  | 141.8  |
| 32.5° | 1108.1 | 944.9  | 485.6  | 165.5  | 141.3  | 135.2  | 133.7  | 134.4  | 133.7  | 133.7  | 133.7  |
| 35°   | 1169.7 | 966.3  | 412.5  | 144.4  | 130.9  | 125.8  | 124.3  | 125.3  | 124.8  | 124.8  | 124.5  |
| 37.5° | 1259.6 | 1006.0 | 338.9  | 131.6  | 121.7  | 116.4  | 114.3  | 115.9  | 115.3  | 115.3  | 115.1  |
| 40°   | 1369.1 | 1063.8 | 268.9  | 122.0  | 112.8  | 107.2  | 105.4  | 106.2  | 104.9  | 104.9  | 105.4  |
| 42.5° | 1504.3 | 1137.1 | 207.8  | 112.5  | 103.9  | 98.5   | 97.5   | 96.8   | 94.5   | 93.2   | 93.4   |
| 45°   | 1654.5 | 1213.5 | 161.9  | 103.4  | 95.5   | 91.2   | 89.6   | 87.6   | 83.8   | 81.2   | 81.5   |
| 47.5° | 1788.7 | 1272.4 | 131.6  | 94.5   | 87.8   | 84.5   | 82.2   | 78.4   | 72.8   | 69.8   | 70.0   |
| 50°   | 1859.3 | 1281.3 | 112.0  | 85.6   | 80.7   | 77.4   | 74.1   | 68.2   | 61.6   | 58.3   | 58.1   |
| 52.5° | 1877.3 | 1239.5 | 97.5   | 77.4   | 73.6   | 69.8   | 65.4   | 57.5   | 50.2   | 46.6   | 46.1   |
| 55°   | 1884.0 | 1175.8 | 84.5   | 69.8   | 65.9   | 61.6   | 56.0   | 47.1   | 40.2   | 36.7   | 36.4   |
| 57.5° | 1862.1 | 1080.9 | 74.3   | 62.9   | 58.3   | 53.0   | 46.1   | 37.7   | 31.1   | 28.3   | 28.3   |
| 60°   | 1813.4 | 952.3  | 66.5   | 55.5   | 50.4   | 44.3   | 37.2   | 29.3   | 23.2   | 20.9   | 20.9   |
| 62.5° | 1716.4 | 785.8  | 59.1   | 47.9   | 43.0   | 36.7   | 30.0   | 22.2   | 16.3   | 15.0   | 15.3   |
| 65°   | 1533.3 | 596.1  | 51.7   | 41.0   | 36.7   | 30.3   | 23.4   | 15.8   | 10.9   | 10.9   | 11.5   |
| 67.5° | 1250.5 | 414.0  | 44.0   | 34.9   | 31.6   | 24.7   | 17.8   | 10.9   | 7.6    | 8.7    | 9.7    |
| 70°   | 827.8  | 232.2  | 37.7   | 28.8   | 27.0   | 19.6   | 13.2   | 7.4    | 6.1    | 8.1    | 9.9    |
| 72.5° | 312.4  | 90.4   | 31.6   | 23.2   | 23.4   | 15.0   | 9.4    | 5.6    | 5.6    | 8.9    | 11.7   |
| 75°   | 87.1   | 44.3   | 22.7   | 17.1   | 18.3   | 10.9   | 6.9    | 4.8    | 5.3    | 10.2   | 13.7   |
| 77.5° | 51.2   | 32.6   | 14.8   | 9.9    | 12.5   | 7.6    | 4.6    | 3.8    | 4.6    | 8.7    | 13.2   |
| 80°   | 41.2   | 17.3   | 8.7    | 5.1    | 6.9    | 4.3    | 3.1    | 2.3    | 1.3    | 3.3    | 6.9    |
| 82.5° | 41.2   | 10.4   | 4.1    | 3.6    | 3.6    | 2.3    | 1.5    | 1.0    | 0.3    | 0.0    | 1.8    |
| 85°   | 27.8   | 4.3    | 2.5    | 2.3    | 1.8    | 0.8    | 0.5    | 0.3    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.6    | 1.8    | 1.0    | 0.5    | 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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