

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: P387070

Luminaire Tested: **GWC-SA2D-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P387070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2D-735-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11084.8 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

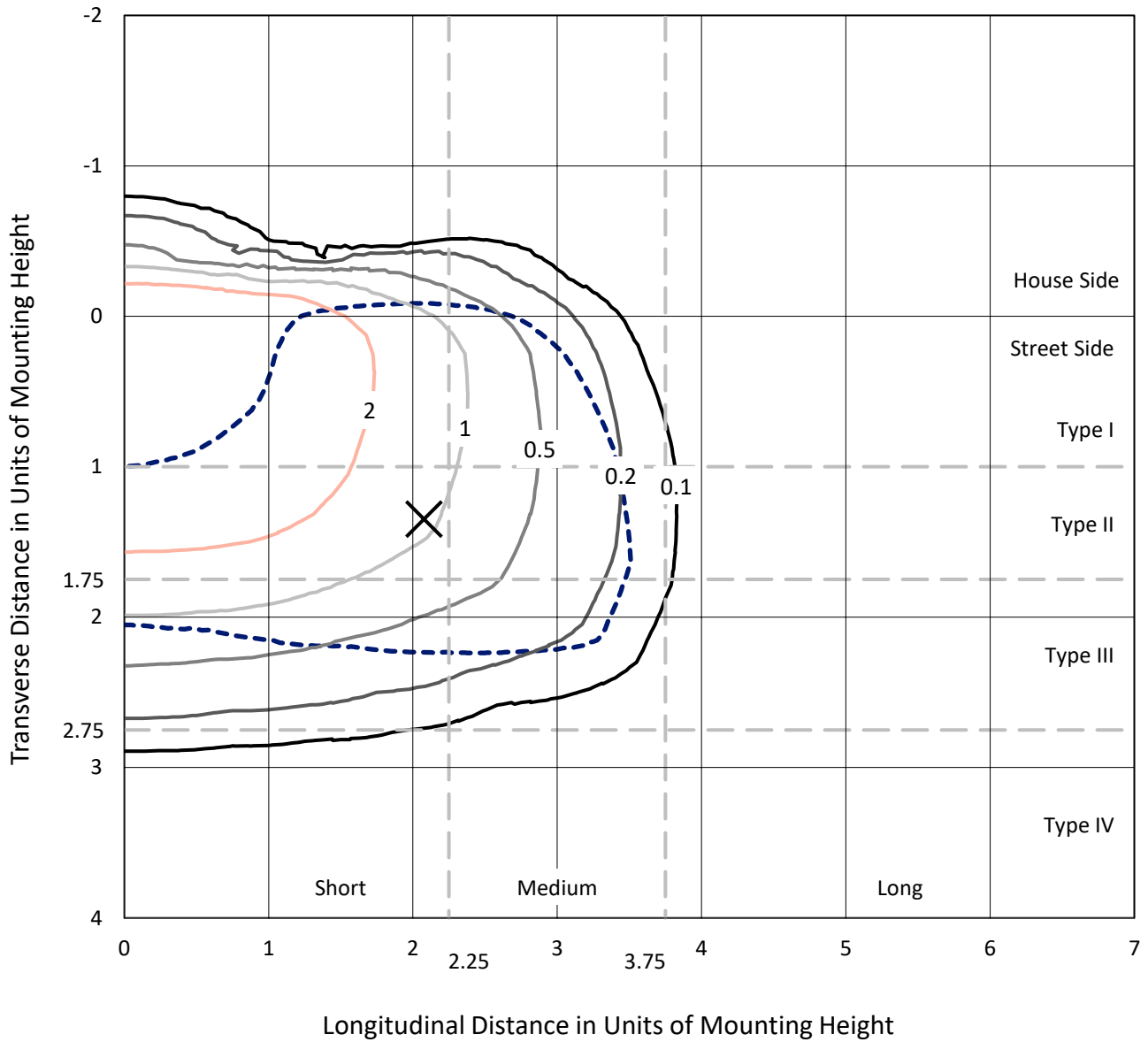
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

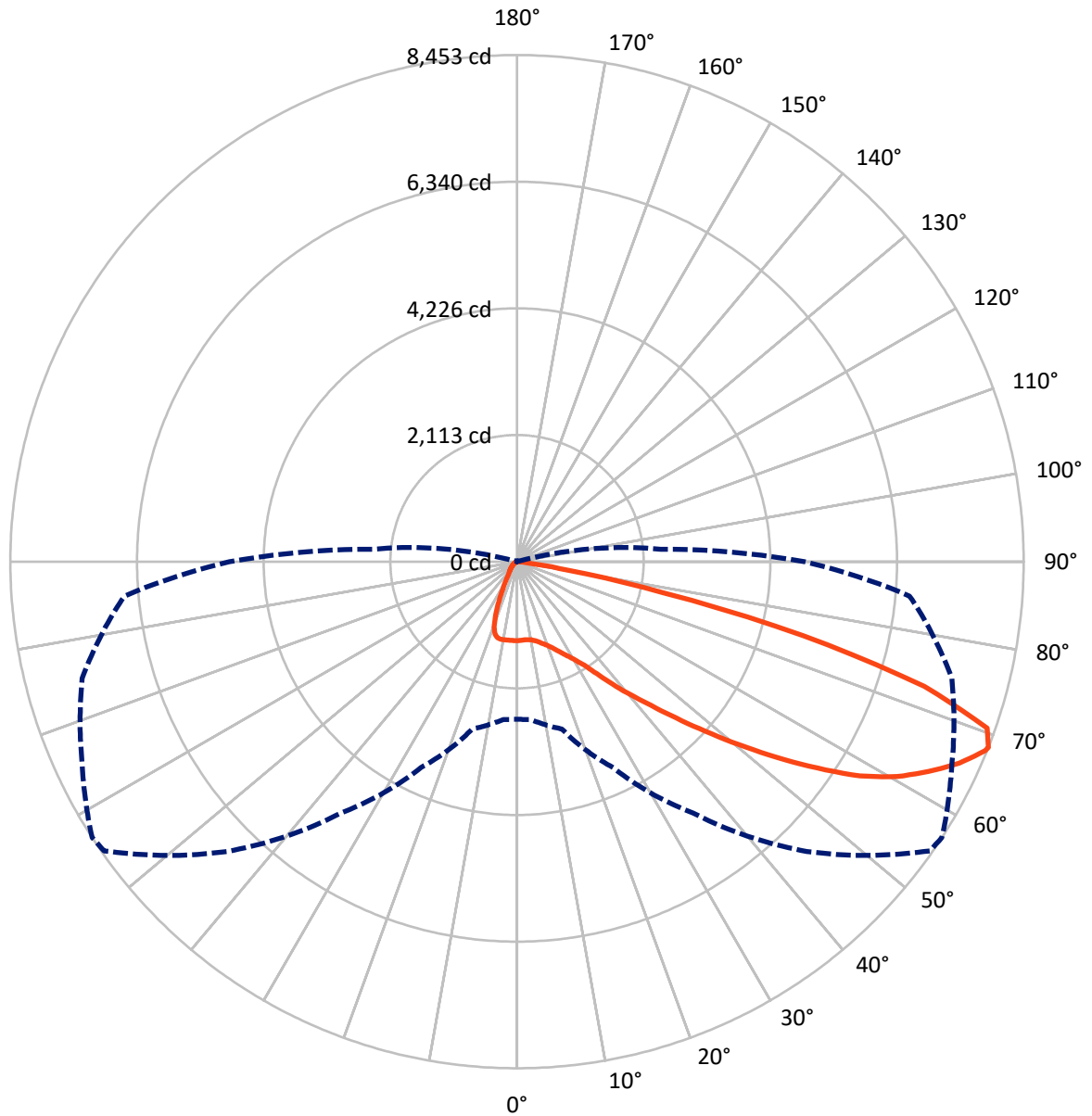
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical



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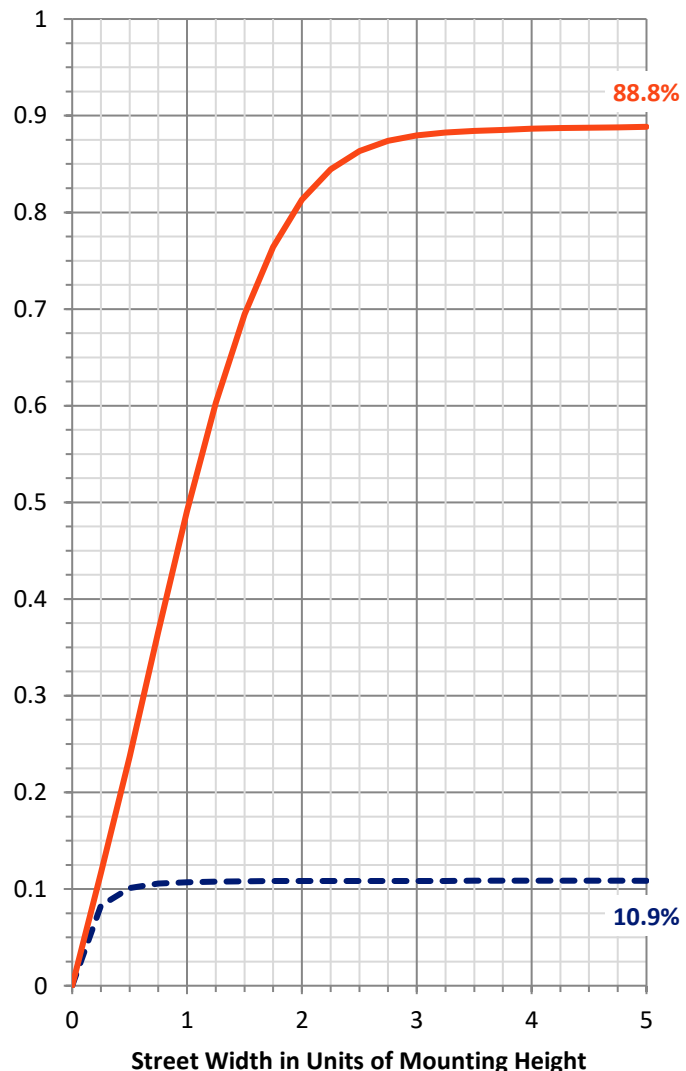
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1215.5   | 0.0    | 1215.5  |
|                    | % Fixture | 11.0     | 0.0    | 11.0    |
| <b>Street Side</b> | Lumens    | 9869.3   | 0.0    | 9869.3  |
|                    | % Fixture | 89.0     | 0.0    | 89.0    |
| <b>Total</b>       | Lumens    | 11084.8  | 0.0    | 11084.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.3   | 1.1       |
| 10°-20°   | 341.6   | 3.1       |
| 20°-30°   | 589.3   | 5.3       |
| 30°-40°   | 1017.0  | 9.2       |
| 40°-50°   | 1739.7  | 15.7      |
| 50°-60°   | 2783.3  | 25.1      |
| 60°-70°   | 3215.8  | 29.0      |
| 70°-80°   | 1228.8  | 11.1      |
| 80°-90°   | 46.1    | 0.4       |
| 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°    | 11084.8 | 100.0     |
| 0°-180°   | 11084.8 | 100.0     |



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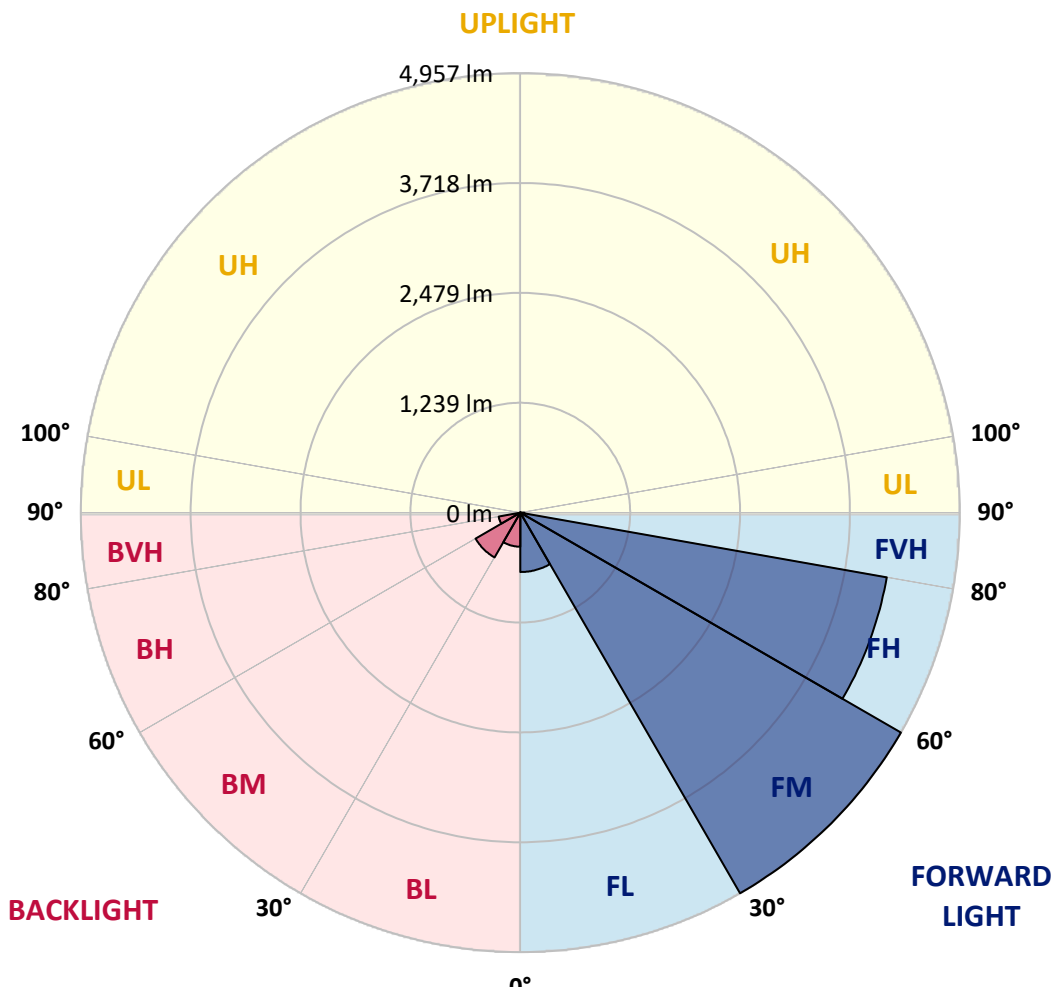
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 670.0  | 6.0       |                         |      |         |
| FM (30°-60°)   | 4957.0 | 44.7      |                         |      |         |
| FH (60°-80°)   | 4197.1 | 37.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 45.2   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 384.1  | 3.5       | B1/500                  |      |         |
| BM (30°-60°)   | 583.0  | 5.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 247.6  | 2.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.8    | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 |
| 2.5°  | 1286.2 | 1292.0 | 1296.2 | 1298.8 | 1302.0 | 1308.8 | 1310.9 | 1314.0 | 1315.6 | 1315.6 | 1319.3 |
| 5°    | 1235.4 | 1241.7 | 1250.6 | 1257.9 | 1272.6 | 1291.5 | 1305.1 | 1310.4 | 1319.8 | 1328.2 | 1332.9 |
| 7.5°  | 1188.2 | 1195.6 | 1206.1 | 1223.4 | 1248.5 | 1278.9 | 1307.2 | 1314.6 | 1332.9 | 1350.8 | 1359.6 |
| 10°   | 1157.8 | 1163.6 | 1177.2 | 1201.9 | 1234.9 | 1277.3 | 1317.2 | 1326.0 | 1357.5 | 1387.4 | 1404.2 |
| 12.5° | 1147.4 | 1152.6 | 1166.7 | 1194.5 | 1235.4 | 1285.2 | 1340.2 | 1353.4 | 1399.5 | 1443.0 | 1466.6 |
| 15°   | 1162.6 | 1163.6 | 1178.8 | 1205.0 | 1245.4 | 1304.6 | 1378.5 | 1394.2 | 1452.4 | 1509.0 | 1538.4 |
| 17.5° | 1221.2 | 1216.5 | 1224.4 | 1236.0 | 1267.9 | 1330.3 | 1418.9 | 1442.4 | 1520.0 | 1586.5 | 1614.3 |
| 20°   | 1368.0 | 1368.0 | 1350.2 | 1318.7 | 1319.3 | 1370.1 | 1473.3 | 1500.1 | 1595.0 | 1672.0 | 1697.2 |
| 22.5° | 1619.0 | 1614.3 | 1578.7 | 1501.7 | 1430.9 | 1438.8 | 1539.9 | 1574.5 | 1685.1 | 1767.4 | 1775.8 |
| 25°   | 1921.0 | 1915.2 | 1860.2 | 1751.7 | 1629.0 | 1549.9 | 1630.1 | 1670.0 | 1792.6 | 1865.4 | 1848.2 |
| 27.5° | 2240.7 | 2236.0 | 2181.5 | 2046.8 | 1872.2 | 1727.1 | 1737.5 | 1775.3 | 1902.1 | 1973.9 | 1918.9 |
| 30°   | 2550.5 | 2552.1 | 2498.0 | 2359.7 | 2162.1 | 1953.0 | 1873.8 | 1895.8 | 2008.5 | 2081.4 | 2002.8 |
| 32.5° | 2845.0 | 2847.1 | 2800.5 | 2645.9 | 2461.4 | 2215.6 | 2062.5 | 2056.7 | 2132.2 | 2204.0 | 2113.8 |
| 35°   | 3107.6 | 3112.9 | 3080.9 | 2960.9 | 2765.4 | 2508.0 | 2307.2 | 2293.6 | 2307.8 | 2389.1 | 2284.2 |
| 37.5° | 3360.8 | 3364.0 | 3339.8 | 3238.7 | 3075.1 | 2829.4 | 2616.5 | 2597.1 | 2566.7 | 2629.1 | 2509.0 |
| 40°   | 3638.1 | 3630.2 | 3602.5 | 3510.7 | 3370.3 | 3184.2 | 2948.9 | 2915.3 | 2862.3 | 2917.9 | 2804.7 |
| 42.5° | 3895.9 | 3887.0 | 3891.7 | 3788.0 | 3669.6 | 3548.9 | 3336.2 | 3278.5 | 3247.6 | 3311.6 | 3167.4 |
| 45°   | 4218.3 | 4213.6 | 4229.3 | 4139.2 | 4043.2 | 3955.7 | 3780.1 | 3717.2 | 3703.6 | 3778.5 | 3606.1 |
| 47.5° | 4536.4 | 4548.0 | 4596.7 | 4558.5 | 4519.7 | 4442.7 | 4250.3 | 4222.0 | 4230.4 | 4321.0 | 4068.9 |
| 50°   | 4801.7 | 4815.3 | 4948.9 | 4993.0 | 5049.1 | 5004.0 | 4811.1 | 4793.8 | 4826.8 | 4908.6 | 4566.9 |
| 52.5° | 4993.5 | 5021.2 | 5187.4 | 5390.3 | 5594.7 | 5625.1 | 5432.7 | 5417.0 | 5461.5 | 5474.1 | 4951.5 |
| 55°   | 5126.6 | 5151.3 | 5339.4 | 5710.6 | 6126.7 | 6257.8 | 6138.3 | 6077.4 | 6069.0 | 5944.9 | 5356.2 |
| 57.5° | 5150.2 | 5147.6 | 5418.0 | 5917.6 | 6543.9 | 6882.0 | 6806.6 | 6746.7 | 6574.8 | 6379.9 | 5820.1 |
| 60°   | 5017.1 | 5032.3 | 5346.3 | 5989.4 | 6806.0 | 7354.2 | 7360.1 | 7282.5 | 7014.6 | 6802.9 | 6269.8 |
| 62.5° | 4607.3 | 4669.1 | 4986.2 | 5801.2 | 6802.9 | 7544.6 | 7765.7 | 7706.5 | 7386.3 | 7149.4 | 6725.8 |
| 65°   | 3942.6 | 3964.6 | 4267.0 | 5156.5 | 6343.2 | 7464.9 | 8131.0 | 8109.0 | 7721.2 | 7485.8 | 6960.1 |
| 67.5° | 2879.1 | 2831.4 | 3149.0 | 4060.5 | 5370.3 | 7000.5 | 8393.1 | 8420.9 | 7979.6 | 7555.0 | 6710.6 |
| 68°   | 2627.5 | 2641.7 | 2889.1 | 3789.5 | 5115.7 | 6836.4 | 8410.4 | 8452.9 | 8005.2 | 7509.9 | 6574.3 |
| 70°   | 1566.2 | 1593.4 | 1814.1 | 2609.2 | 3891.7 | 5908.1 | 8223.8 | 8320.8 | 7852.2 | 7045.0 | 5686.4 |
| 72.5° | 399.9  | 432.4  | 641.0  | 1167.8 | 2222.9 | 4162.7 | 6942.3 | 7106.3 | 6817.6 | 5715.3 | 3838.8 |
| 75°   | 164.6  | 172.9  | 229.0  | 384.7  | 828.2  | 1875.4 | 4575.8 | 4926.9 | 4726.2 | 3421.6 | 1734.9 |
| 77.5° | 113.8  | 119.5  | 147.3  | 213.3  | 358.5  | 635.8  | 2243.4 | 2497.0 | 2249.7 | 1167.8 | 378.4  |
| 80°   | 81.7   | 86.5   | 105.3  | 142.0  | 206.0  | 227.0  | 731.2  | 845.5  | 671.4  | 256.3  | 93.8   |
| 82.5° | 48.8   | 52.4   | 78.6   | 101.2  | 125.3  | 108.5  | 181.9  | 206.5  | 194.5  | 127.4  | 41.9   |
| 85°   | 24.1   | 28.3   | 53.0   | 72.3   | 67.6   | 45.6   | 55.5   | 61.8   | 76.6   | 77.6   | 22.5   |
| 87.5° | 1.6    | 3.1    | 30.9   | 43.5   | 18.9   | 10.5   | 16.3   | 19.9   | 27.2   | 38.2   | 9.4    |
| 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°    | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 | 1317.2 |
| 2.5°  | 1320.9 | 1321.4 | 1317.7 | 1316.1 | 1317.2 | 1310.9 | 1308.3 | 1309.3 | 1309.3 | 1310.9 | 1308.3 |
| 5°    | 1333.9 | 1333.9 | 1327.6 | 1319.3 | 1314.6 | 1302.5 | 1294.7 | 1292.5 | 1291.0 | 1289.9 | 1287.8 |
| 7.5°  | 1362.2 | 1359.1 | 1348.1 | 1329.7 | 1314.0 | 1287.8 | 1267.9 | 1257.4 | 1252.2 | 1250.1 | 1248.5 |
| 10°   | 1407.9 | 1402.0 | 1383.7 | 1349.6 | 1313.5 | 1266.9 | 1223.4 | 1192.5 | 1166.7 | 1156.3 | 1150.0 |
| 12.5° | 1469.2 | 1460.8 | 1429.9 | 1373.3 | 1309.8 | 1223.8 | 1129.5 | 1038.9 | 954.4  | 919.9  | 902.6  |
| 15°   | 1539.9 | 1527.9 | 1479.2 | 1393.2 | 1288.4 | 1126.9 | 921.9  | 763.2  | 646.3  | 602.2  | 583.4  |
| 17.5° | 1611.7 | 1596.0 | 1522.1 | 1405.7 | 1223.8 | 926.1  | 646.8  | 488.5  | 410.4  | 389.5  | 382.1  |
| 20°   | 1684.1 | 1661.0 | 1559.3 | 1396.3 | 1078.1 | 667.7  | 426.7  | 357.0  | 334.4  | 328.1  | 326.1  |
| 22.5° | 1752.7 | 1717.1 | 1592.8 | 1359.6 | 853.8  | 448.2  | 337.5  | 315.5  | 308.2  | 304.6  | 303.5  |
| 25°   | 1812.5 | 1762.7 | 1622.2 | 1246.4 | 604.3  | 338.6  | 304.0  | 296.7  | 287.3  | 280.4  | 281.0  |
| 27.5° | 1868.5 | 1808.3 | 1640.1 | 1059.8 | 403.1  | 289.3  | 281.4  | 271.5  | 254.2  | 244.2  | 244.2  |
| 30°   | 1936.2 | 1869.1 | 1653.1 | 815.6  | 296.7  | 255.8  | 249.5  | 234.3  | 210.7  | 197.6  | 197.6  |
| 32.5° | 2037.8 | 1961.4 | 1644.8 | 572.4  | 245.8  | 224.9  | 210.1  | 189.2  | 163.5  | 151.0  | 150.4  |
| 35°   | 2193.6 | 2103.9 | 1585.0 | 375.3  | 217.0  | 195.5  | 171.9  | 146.3  | 123.7  | 113.2  | 112.7  |
| 37.5° | 2403.2 | 2294.7 | 1450.8 | 268.4  | 194.5  | 168.2  | 140.0  | 111.6  | 94.9   | 88.0   | 87.6   |
| 40°   | 2675.2 | 2516.4 | 1259.0 | 217.6  | 173.5  | 142.0  | 107.9  | 86.5   | 75.0   | 69.7   | 70.3   |
| 42.5° | 3001.7 | 2753.8 | 1028.9 | 187.6  | 153.0  | 116.9  | 84.4   | 68.1   | 60.8   | 57.1   | 56.1   |
| 45°   | 3364.4 | 2988.1 | 787.8  | 167.2  | 132.6  | 94.3   | 66.0   | 54.0   | 48.2   | 46.1   | 46.1   |
| 47.5° | 3763.3 | 3216.1 | 576.6  | 149.4  | 110.6  | 72.9   | 53.0   | 44.1   | 39.3   | 37.8   | 37.2   |
| 50°   | 4125.5 | 3374.4 | 415.7  | 130.5  | 90.7   | 57.7   | 43.0   | 36.7   | 33.5   | 31.5   | 31.5   |
| 52.5° | 4427.5 | 3424.2 | 306.1  | 110.1  | 73.4   | 46.1   | 35.6   | 31.5   | 28.3   | 26.8   | 26.8   |
| 55°   | 4693.2 | 3403.8 | 227.5  | 90.7   | 59.2   | 37.8   | 30.4   | 26.8   | 24.1   | 22.5   | 22.5   |
| 57.5° | 4947.9 | 3337.8 | 169.8  | 73.9   | 47.7   | 30.4   | 25.6   | 22.5   | 19.9   | 18.9   | 18.9   |
| 60°   | 5156.0 | 3227.7 | 126.3  | 59.7   | 38.2   | 24.6   | 21.5   | 18.3   | 16.3   | 14.7   | 14.7   |
| 62.5° | 5324.8 | 3106.1 | 92.8   | 49.2   | 30.4   | 19.4   | 16.8   | 15.2   | 12.0   | 10.5   | 10.5   |
| 65°   | 5325.8 | 2904.3 | 69.7   | 40.9   | 23.6   | 15.2   | 12.6   | 12.0   | 7.9    | 6.3    | 5.7    |
| 67.5° | 4940.6 | 2503.9 | 53.5   | 35.1   | 18.3   | 11.6   | 9.4    | 10.0   | 4.2    | 2.6    | 2.1    |
| 68°   | 4800.6 | 2402.1 | 50.4   | 34.6   | 17.3   | 11.0   | 8.9    | 10.0   | 3.7    | 2.1    | 1.6    |
| 70°   | 4047.5 | 1911.0 | 40.4   | 33.5   | 15.2   | 8.4    | 7.3    | 10.0   | 3.1    | 1.6    | 1.0    |
| 72.5° | 2588.8 | 1109.0 | 29.9   | 26.8   | 11.6   | 6.3    | 4.7    | 8.9    | 3.1    | 1.0    | 0.6    |
| 75°   | 1101.7 | 343.8  | 20.5   | 18.9   | 6.9    | 4.7    | 3.1    | 5.7    | 2.1    | 0.6    | 0.0    |
| 77.5° | 232.2  | 77.6   | 12.0   | 11.6   | 4.7    | 3.1    | 2.1    | 1.6    | 0.6    | 0.0    | 0.0    |
| 80°   | 59.7   | 22.5   | 6.3    | 5.7    | 2.6    | 1.6    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 18.9   | 8.9    | 3.7    | 2.6    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 9.4    | 5.3    | 2.1    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.3    | 1.6    | 0.6    | 0.0    | 0.0    | 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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