

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: P386572

Luminaire Tested: **GWC-SA2B-727-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2B-727-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7229 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

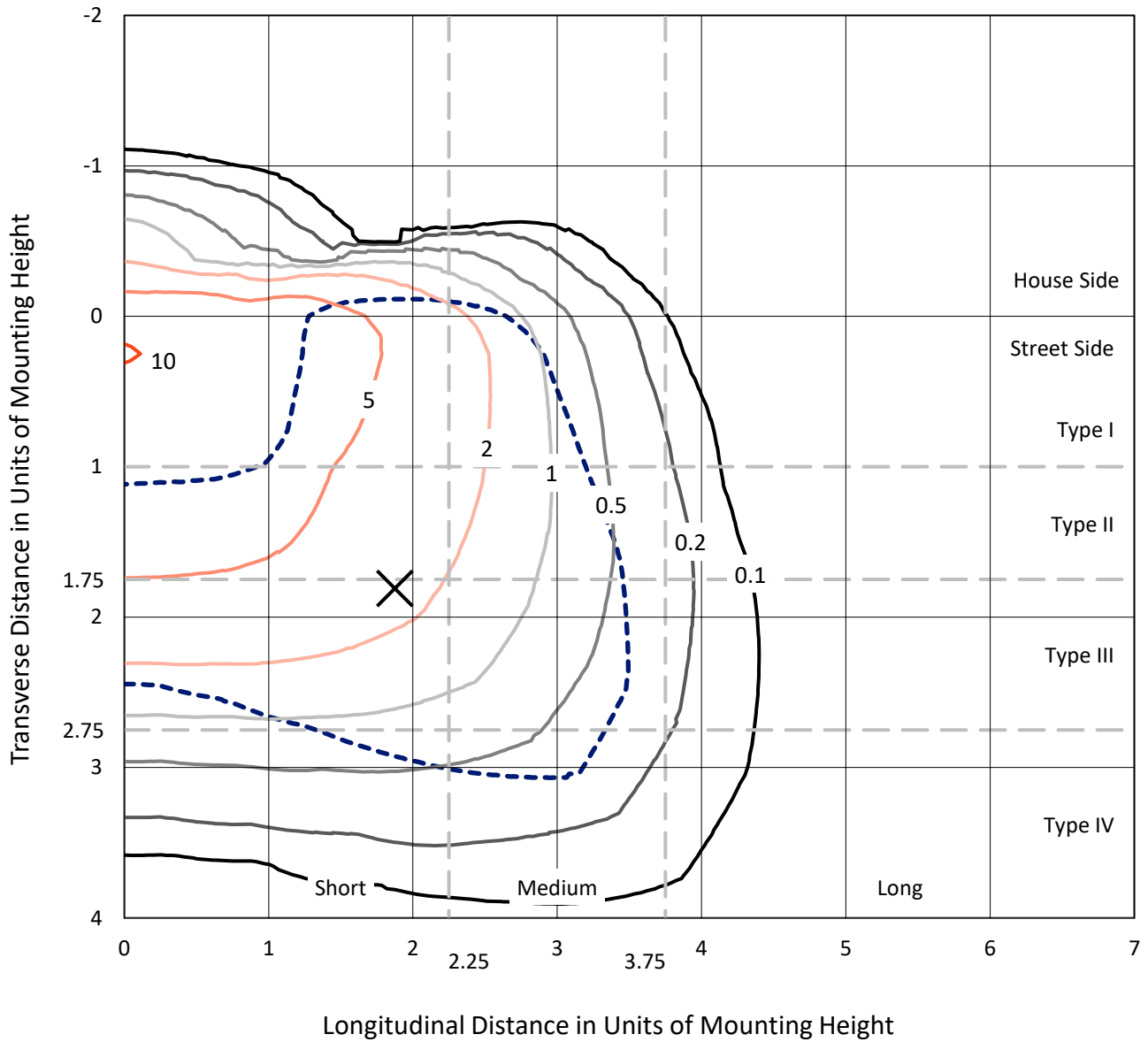
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

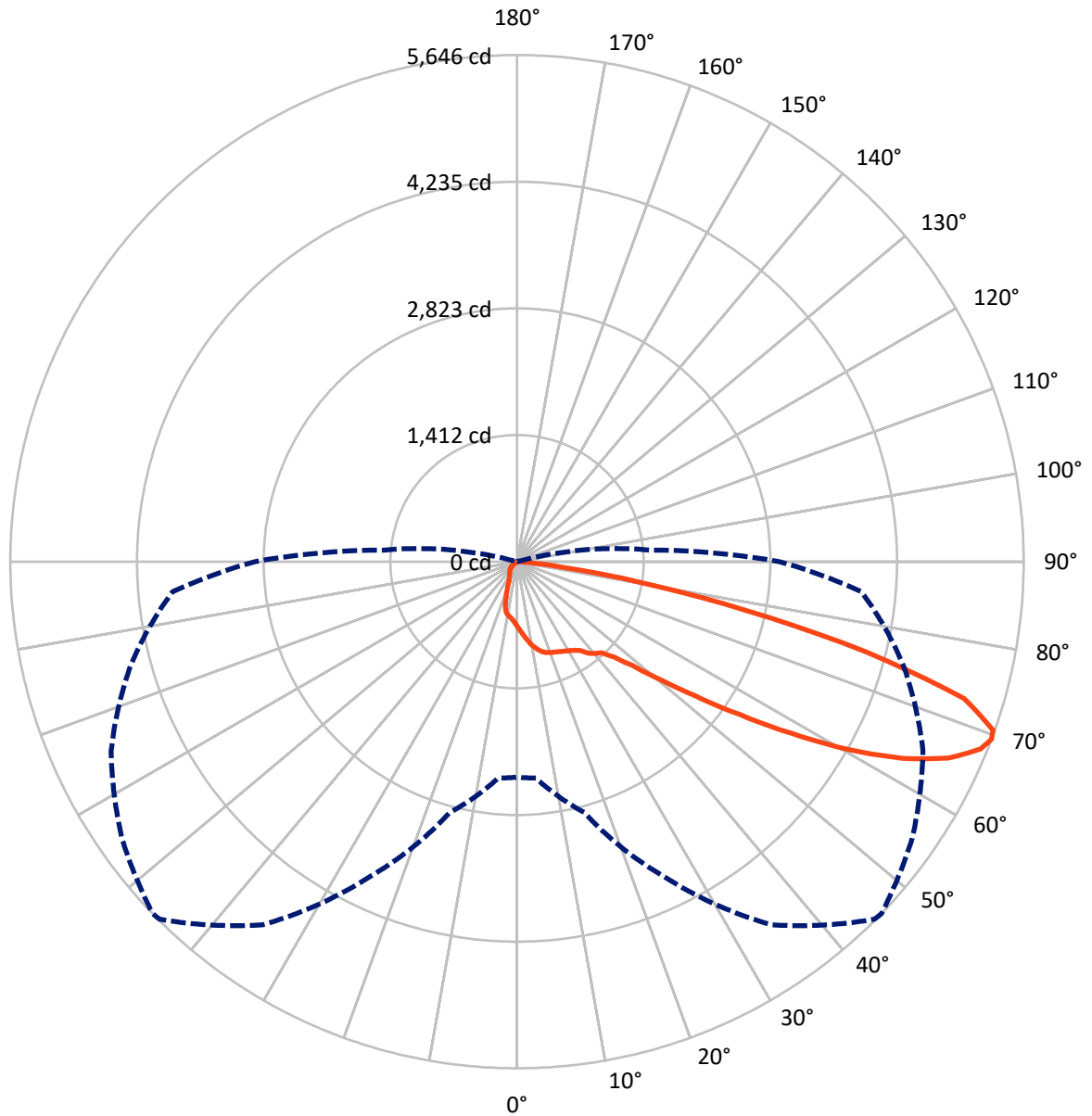
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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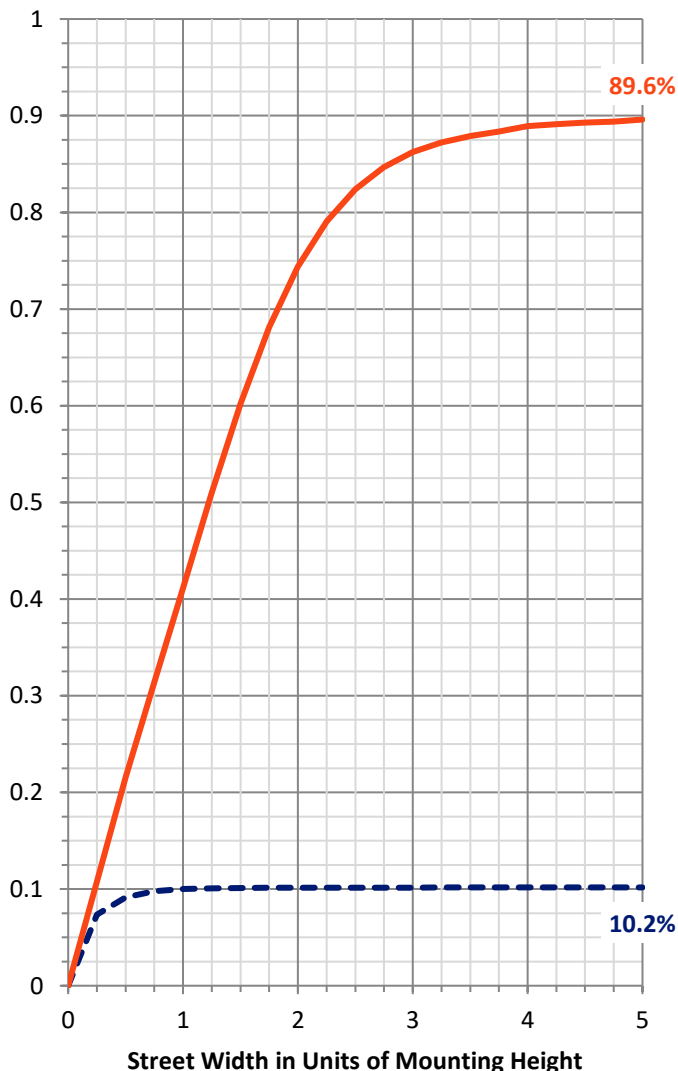
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 741.9    | 0.0    | 741.9  |
|                    | % Fixture | 10.3     | 0.0    | 10.3   |
| <b>Street Side</b> | Lumens    | 6487.1   | 0.0    | 6487.1 |
|                    | % Fixture | 89.7     | 0.0    | 89.7   |
| <b>Total</b>       | Lumens    | 7229.0   | 0.0    | 7229.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.1   | 1.0       |
| 10°-20°   | 218.7  | 3.0       |
| 20°-30°   | 344.0  | 4.8       |
| 30°-40°   | 493.3  | 6.8       |
| 40°-50°   | 852.5  | 11.8      |
| 50°-60°   | 1684.3 | 23.3      |
| 60°-70°   | 2353.9 | 32.6      |
| 70°-80°   | 1137.2 | 15.7      |
| 80°-90°   | 73.1   | 1.0       |
| 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°    | 7229.0 | 100.0     |
| 0°-180°   | 7229.0 | 100.0     |

**Coefficient of Utilization**



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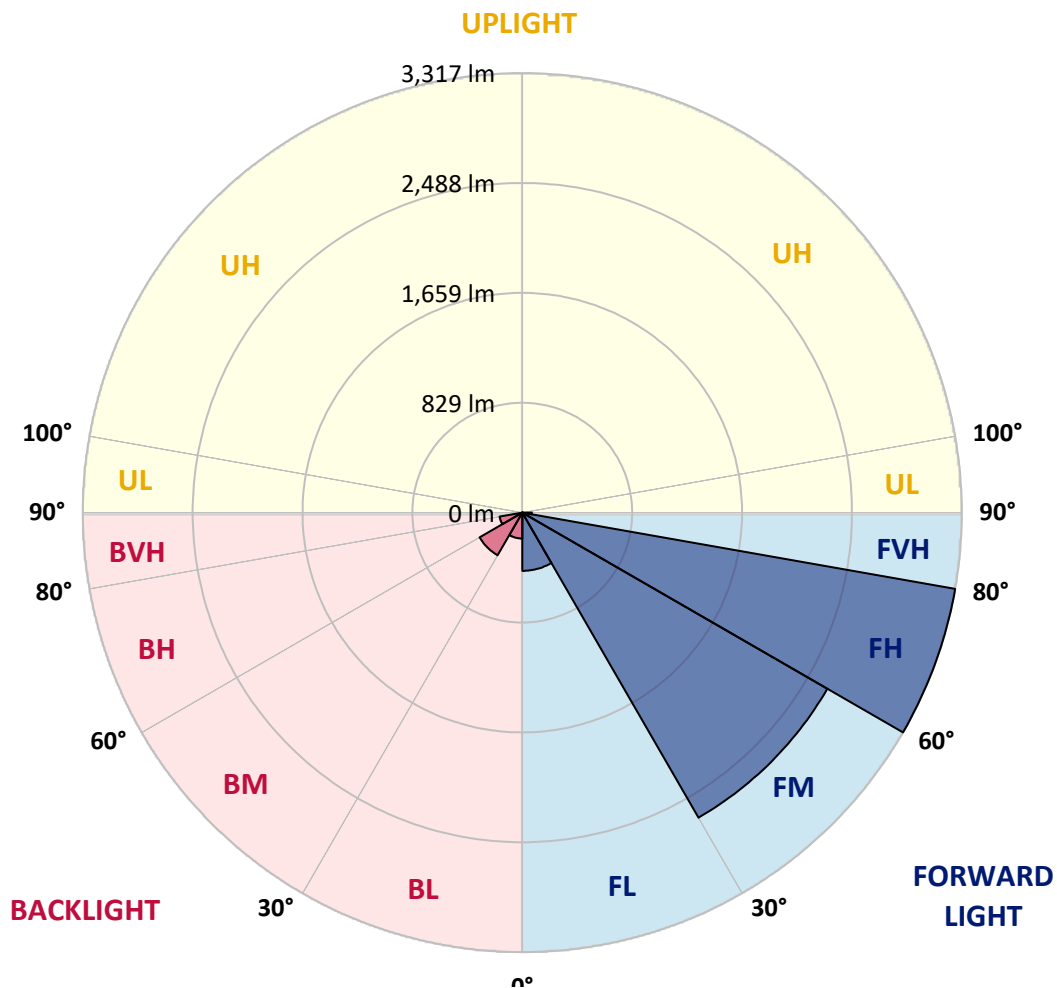
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 439.2  | 6.1       |                         |      |         |
| FM (30°-60°)   | 2658.3 | 36.8      |                         |      |         |
| FH (60°-80°)   | 3317.1 | 45.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 72.5   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 195.5  | 2.7       | B1/500                  |      |         |
| BM (30°-60°)   | 371.8  | 5.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 174.0  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.6    | 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°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 724.3  | 724.3  | 724.3  | 724.3  | 724.3  | 724.3  | 724.3  | 724.3  | 724.3  | 724.3  | 724.3  |
| 2.5°  | 804.6  | 803.6  | 798.9  | 796.9  | 785.3  | 778.5  | 775.8  | 767.4  | 755.2  | 743.0  | 729.4  |
| 5°    | 896.2  | 895.8  | 887.0  | 878.5  | 856.8  | 836.5  | 832.8  | 813.1  | 785.7  | 759.9  | 734.1  |
| 7.5°  | 989.7  | 985.3  | 976.5  | 960.2  | 928.7  | 896.2  | 893.1  | 865.3  | 826.3  | 789.1  | 752.1  |
| 10°   | 1069.0 | 1066.3 | 1054.8 | 1030.0 | 993.1  | 956.2  | 952.4  | 918.2  | 874.1  | 828.4  | 781.3  |
| 12.5° | 1130.7 | 1128.7 | 1113.4 | 1082.6 | 1043.3 | 1005.0 | 999.9  | 969.4  | 922.3  | 871.1  | 815.5  |
| 15°   | 1168.3 | 1167.3 | 1148.7 | 1115.8 | 1077.2 | 1043.9 | 1039.5 | 1012.8 | 969.0  | 915.5  | 852.8  |
| 17.5° | 1177.1 | 1177.5 | 1158.2 | 1124.9 | 1093.1 | 1069.4 | 1066.0 | 1045.6 | 1009.0 | 955.8  | 890.1  |
| 20°   | 1157.5 | 1161.6 | 1144.3 | 1115.5 | 1095.8 | 1083.3 | 1080.5 | 1068.3 | 1037.5 | 987.3  | 919.9  |
| 22.5° | 1129.7 | 1131.7 | 1119.9 | 1100.5 | 1092.4 | 1094.8 | 1093.4 | 1086.6 | 1060.5 | 1014.5 | 949.4  |
| 25°   | 1112.7 | 1112.7 | 1105.6 | 1089.4 | 1094.8 | 1109.4 | 1109.7 | 1108.3 | 1087.7 | 1047.7 | 985.3  |
| 27.5° | 1112.1 | 1110.0 | 1101.9 | 1089.7 | 1104.6 | 1127.0 | 1128.3 | 1137.5 | 1124.6 | 1088.0 | 1030.0 |
| 30°   | 1139.2 | 1136.8 | 1119.5 | 1103.6 | 1122.6 | 1146.6 | 1150.0 | 1170.0 | 1163.6 | 1131.7 | 1079.9 |
| 32.5° | 1202.6 | 1194.1 | 1155.8 | 1129.7 | 1143.9 | 1172.7 | 1177.1 | 1209.0 | 1219.2 | 1185.6 | 1128.0 |
| 35°   | 1289.3 | 1262.6 | 1207.3 | 1179.2 | 1180.5 | 1210.7 | 1214.8 | 1261.5 | 1291.7 | 1235.1 | 1165.3 |
| 37.5° | 1409.0 | 1395.8 | 1305.9 | 1230.7 | 1236.8 | 1282.6 | 1294.4 | 1345.3 | 1336.8 | 1262.2 | 1207.6 |
| 40°   | 1671.3 | 1650.6 | 1555.1 | 1375.1 | 1290.7 | 1340.9 | 1344.6 | 1371.7 | 1372.4 | 1323.6 | 1295.8 |
| 42.5° | 2028.6 | 2020.1 | 1919.4 | 1637.1 | 1396.8 | 1379.8 | 1386.6 | 1432.4 | 1483.5 | 1453.0 | 1451.7 |
| 45°   | 2424.1 | 2419.7 | 2312.9 | 1984.8 | 1611.3 | 1507.6 | 1516.1 | 1577.4 | 1675.4 | 1682.2 | 1725.2 |
| 47.5° | 2742.4 | 2740.3 | 2679.0 | 2372.9 | 1939.8 | 1724.2 | 1726.9 | 1792.0 | 1964.2 | 2049.2 | 2118.0 |
| 50°   | 3032.5 | 3042.3 | 2993.9 | 2792.9 | 2387.2 | 2063.5 | 2057.0 | 2100.4 | 2377.0 | 2516.3 | 2601.7 |
| 52.5° | 3435.9 | 3449.8 | 3313.8 | 3184.7 | 2856.6 | 2484.4 | 2479.4 | 2524.8 | 2873.2 | 2977.6 | 2992.9 |
| 55°   | 3792.1 | 3768.4 | 3660.9 | 3623.6 | 3429.1 | 3004.4 | 3003.0 | 3043.0 | 3353.2 | 3397.6 | 3425.7 |
| 57.5° | 3949.4 | 3940.2 | 3992.1 | 4077.5 | 4028.7 | 3618.9 | 3615.8 | 3585.3 | 3782.6 | 3787.3 | 3873.8 |
| 60°   | 4048.7 | 4059.8 | 4218.8 | 4482.2 | 4603.8 | 4280.2 | 4260.5 | 4074.4 | 4192.7 | 4182.2 | 4274.7 |
| 62.5° | 3974.1 | 3996.1 | 4282.2 | 4721.1 | 5034.3 | 4857.4 | 4829.6 | 4522.5 | 4543.2 | 4506.9 | 4593.0 |
| 65°   | 3578.2 | 3612.4 | 4081.2 | 4676.0 | 5247.8 | 5308.5 | 5280.4 | 4918.0 | 4821.4 | 4761.8 | 4714.0 |
| 67.5° | 2905.4 | 2925.7 | 3415.2 | 4283.9 | 5151.6 | 5577.6 | 5571.9 | 5264.8 | 5031.6 | 4718.7 | 4347.9 |
| 69°   | 2401.1 | 2421.1 | 2892.2 | 3871.1 | 4939.7 | 5635.2 | 5646.4 | 5376.0 | 4991.6 | 4457.1 | 3852.4 |
| 70°   | 2033.7 | 2055.0 | 2493.9 | 3517.2 | 4694.0 | 5608.5 | 5628.5 | 5365.4 | 4877.0 | 4154.1 | 3417.6 |
| 72.5° | 1066.7 | 1085.0 | 1535.4 | 2423.1 | 3826.7 | 5149.9 | 5210.6 | 4911.9 | 4134.1 | 3016.9 | 2020.8 |
| 75°   | 335.2  | 345.7  | 599.6  | 1266.6 | 2620.0 | 4004.3 | 4018.2 | 3853.1 | 2935.6 | 1659.5 | 841.6  |
| 77.5° | 127.8  | 124.7  | 199.6  | 466.7  | 1324.6 | 2521.4 | 2606.5 | 2407.8 | 1540.5 | 586.7  | 194.2  |
| 80°   | 68.8   | 69.1   | 103.7  | 193.2  | 566.7  | 1295.8 | 1367.6 | 1167.0 | 547.4  | 183.0  | 44.7   |
| 82.5° | 29.8   | 31.2   | 58.3   | 102.4  | 260.3  | 477.9  | 513.8  | 427.7  | 209.1  | 123.0  | 16.6   |
| 85°   | 6.4    | 7.1    | 28.1   | 55.6   | 106.1  | 134.2  | 140.7  | 138.6  | 133.2  | 95.6   | 6.4    |
| 87.5° | 0.0    | 0.0    | 12.5   | 20.0   | 26.8   | 30.5   | 26.8   | 34.9   | 73.6   | 64.4   | 3.4    |
| 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°    | 724.3  | 724.3  | 724.3 | 724.3 | 724.3 | 724.3 | 724.3 | 724.3 | 724.3 | 724.3 | 724.3 |
| 2.5°  | 725.0  | 718.9  | 708.4 | 696.9 | 688.7 | 680.3 | 673.5 | 670.4 | 667.0 | 664.7 | 667.7 |
| 5°    | 723.6  | 711.8  | 691.4 | 671.8 | 657.5 | 646.0 | 636.5 | 632.8 | 629.1 | 626.4 | 626.0 |
| 7.5°  | 735.5  | 718.9  | 687.7 | 658.9 | 636.9 | 621.3 | 608.4 | 603.0 | 598.6 | 596.5 | 594.8 |
| 10°   | 758.2  | 736.9  | 695.2 | 657.5 | 629.1 | 602.6 | 574.8 | 553.5 | 539.6 | 533.2 | 530.8 |
| 12.5° | 787.7  | 760.9  | 709.4 | 664.7 | 623.3 | 572.5 | 513.5 | 462.7 | 429.8 | 418.9 | 412.5 |
| 15°   | 822.3  | 789.1  | 728.0 | 673.8 | 602.3 | 509.4 | 409.4 | 343.0 | 312.5 | 306.4 | 299.6 |
| 17.5° | 855.5  | 818.9  | 750.4 | 675.5 | 556.2 | 407.1 | 300.0 | 254.9 | 243.0 | 247.1 | 248.1 |
| 20°   | 884.6  | 848.4  | 772.4 | 660.6 | 472.5 | 305.4 | 232.2 | 221.0 | 225.4 | 233.2 | 234.5 |
| 22.5° | 914.1  | 876.8  | 792.8 | 621.3 | 365.4 | 231.8 | 209.1 | 211.8 | 216.2 | 224.0 | 225.4 |
| 25°   | 950.1  | 911.4  | 811.8 | 549.1 | 274.2 | 197.3 | 198.6 | 202.7 | 207.1 | 214.2 | 214.9 |
| 27.5° | 991.4  | 955.1  | 824.3 | 455.2 | 203.4 | 181.3 | 185.7 | 191.8 | 196.2 | 203.0 | 204.4 |
| 30°   | 1046.3 | 1012.8 | 828.4 | 357.9 | 170.5 | 167.1 | 169.1 | 176.6 | 183.0 | 189.1 | 190.1 |
| 32.5° | 1097.8 | 1069.7 | 814.8 | 270.1 | 157.9 | 153.9 | 153.9 | 158.3 | 165.7 | 171.5 | 172.9 |
| 35°   | 1145.3 | 1127.0 | 771.4 | 197.6 | 148.5 | 141.7 | 138.3 | 138.3 | 143.0 | 147.8 | 149.1 |
| 37.5° | 1208.0 | 1207.3 | 701.3 | 157.6 | 139.3 | 131.5 | 124.4 | 119.0 | 117.3 | 118.3 | 119.0 |
| 40°   | 1315.4 | 1316.5 | 609.8 | 141.3 | 131.5 | 121.0 | 110.2 | 100.3 | 91.2  | 88.1  | 87.8  |
| 42.5° | 1483.2 | 1468.0 | 513.8 | 133.5 | 124.7 | 110.2 | 93.9  | 80.7  | 66.4  | 62.0  | 61.7  |
| 45°   | 1749.6 | 1659.1 | 412.2 | 126.4 | 117.6 | 98.0  | 77.6  | 59.7  | 48.1  | 44.7  | 44.7  |
| 47.5° | 2137.7 | 1910.3 | 319.3 | 118.6 | 108.1 | 84.1  | 58.6  | 43.0  | 35.2  | 33.6  | 33.9  |
| 50°   | 2539.0 | 2156.3 | 244.7 | 108.8 | 96.6  | 69.5  | 43.4  | 31.2  | 26.8  | 26.8  | 27.1  |
| 52.5° | 2894.9 | 2336.7 | 190.8 | 98.3  | 82.4  | 54.6  | 32.9  | 24.4  | 22.4  | 22.0  | 22.4  |
| 55°   | 3228.1 | 2452.9 | 146.1 | 86.1  | 65.4  | 40.7  | 25.1  | 20.0  | 18.6  | 18.0  | 17.6  |
| 57.5° | 3549.4 | 2510.5 | 109.5 | 69.5  | 47.5  | 29.5  | 20.0  | 16.9  | 15.6  | 14.6  | 14.2  |
| 60°   | 3763.3 | 2463.8 | 75.2  | 51.2  | 32.9  | 21.4  | 16.6  | 14.6  | 12.9  | 11.9  | 11.5  |
| 62.5° | 3883.9 | 2336.0 | 48.5  | 36.9  | 23.4  | 15.9  | 13.2  | 12.2  | 9.8   | 8.8   | 8.8   |
| 65°   | 3835.1 | 2125.2 | 33.9  | 26.4  | 16.9  | 11.9  | 9.8   | 9.8   | 7.1   | 5.8   | 5.4   |
| 67.5° | 3398.6 | 1795.4 | 25.8  | 19.7  | 12.2  | 8.8   | 7.5   | 8.5   | 4.4   | 2.7   | 2.7   |
| 69°   | 2924.1 | 1488.0 | 22.0  | 16.3  | 10.2  | 7.1   | 6.4   | 7.8   | 3.1   | 2.0   | 1.7   |
| 70°   | 2541.4 | 1283.6 | 20.0  | 14.2  | 8.5   | 6.1   | 5.8   | 7.5   | 3.1   | 1.7   | 1.4   |
| 72.5° | 1520.5 | 715.8  | 15.3  | 10.2  | 5.4   | 4.7   | 4.7   | 8.5   | 3.1   | 1.7   | 1.4   |
| 75°   | 614.5  | 252.2  | 11.2  | 7.1   | 4.1   | 4.1   | 5.8   | 10.8  | 2.7   | 1.4   | 1.0   |
| 77.5° | 139.3  | 55.2   | 6.4   | 4.4   | 2.7   | 4.1   | 6.8   | 8.5   | 1.7   | 0.7   | 0.0   |
| 80°   | 33.9   | 13.6   | 4.1   | 2.7   | 1.7   | 3.1   | 5.1   | 4.7   | 0.3   | 0.0   | 0.0   |
| 82.5° | 11.2   | 4.7    | 1.7   | 1.4   | 0.3   | 1.0   | 2.4   | 1.4   | 0.0   | 0.0   | 0.0   |
| 85°   | 4.7    | 2.7    | 0.7   | 0.3   | 0.0   | 0.0   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.1    | 1.0    | 0.0   | 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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