

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: P200262

Luminaire Tested: **GPC-AF-02-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-RW-7050-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10259 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

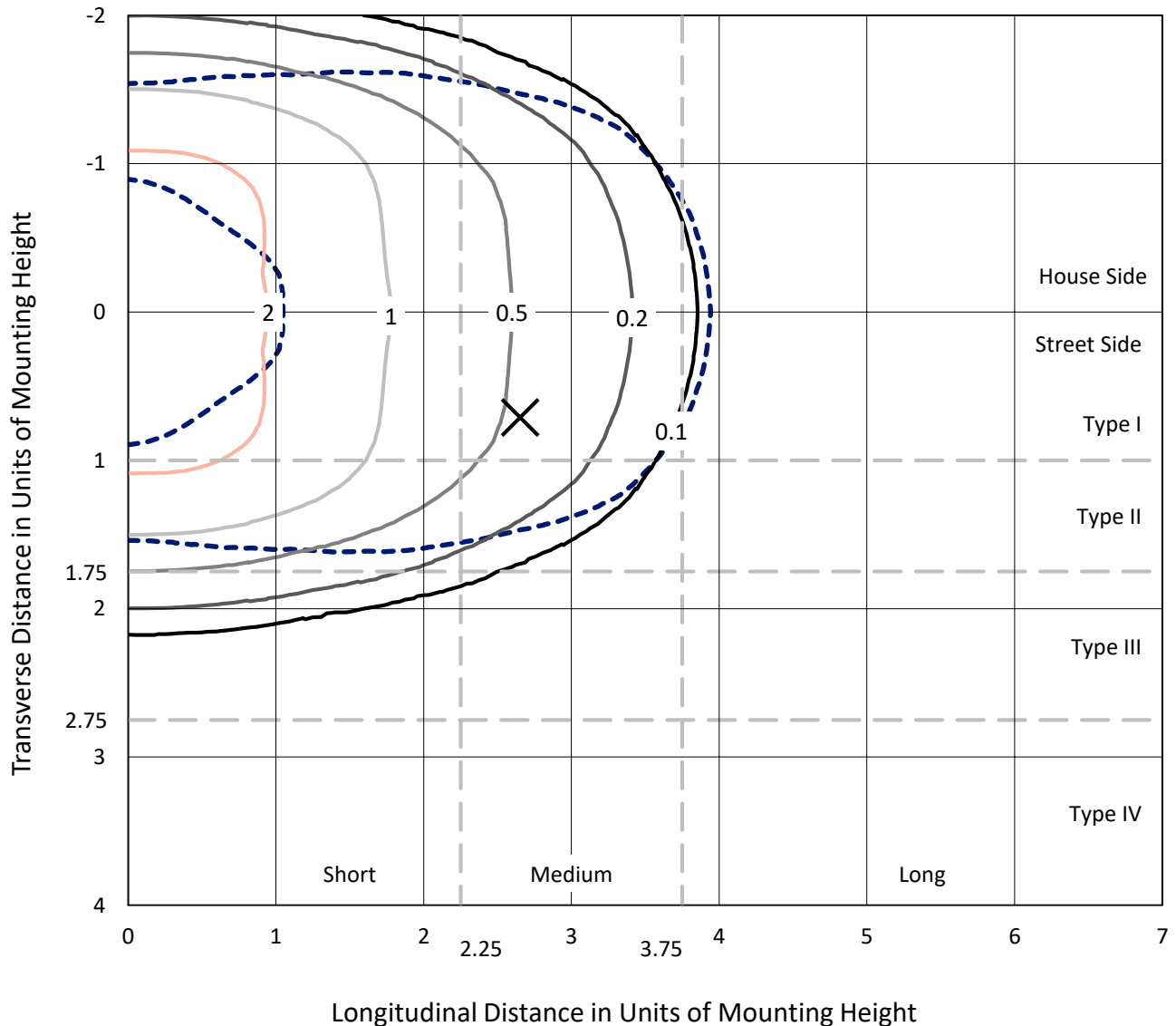
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

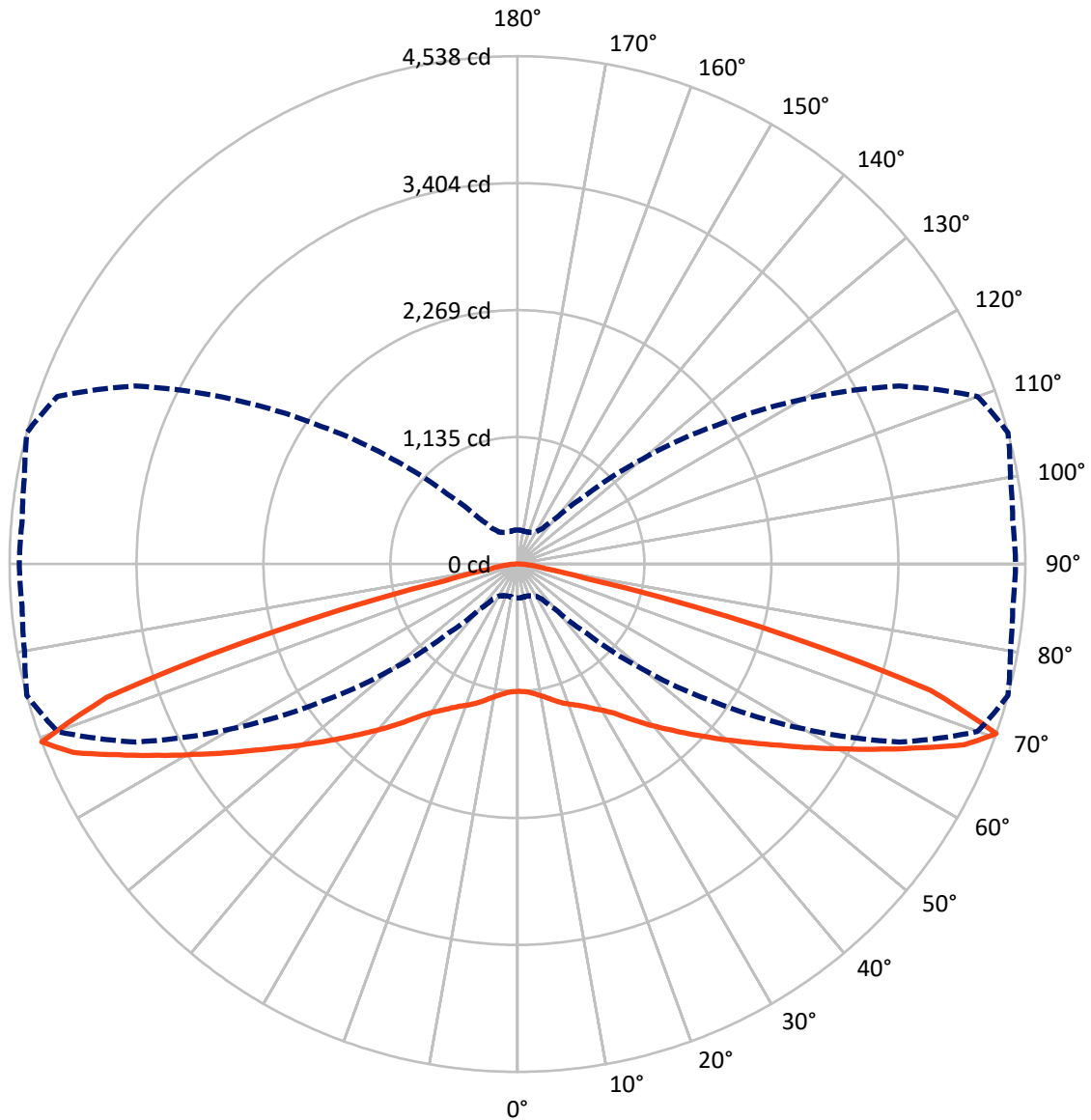
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P200262  
CATALOG NUMBER: GPC-AF-02-LED-E1-RW-7050-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P200262

CATALOG NUMBER: GPC-AF-02-LED-E1-RW-7050-800

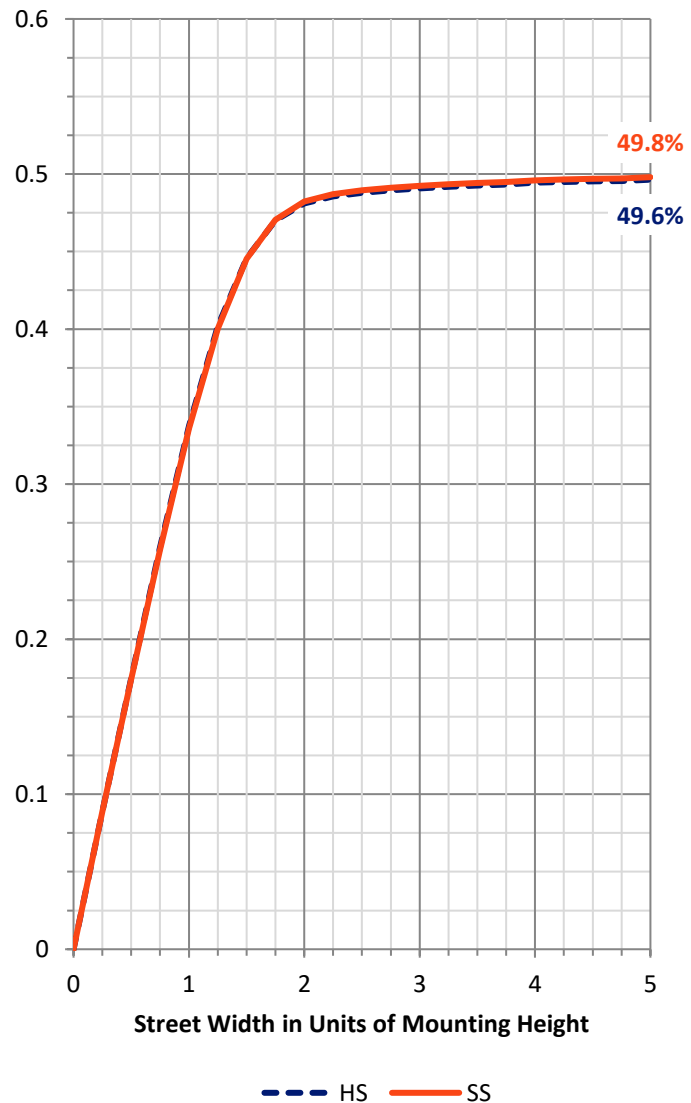
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5129.5   | 0.0    | 5129.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5129.5   | 0.0    | 5129.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10259.0  | 0.0    | 10259.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 109.1   | 1.1       |
| 10°-20°   | 339.1   | 3.3       |
| 20°-30°   | 638.3   | 6.2       |
| 30°-40°   | 1130.2  | 11.0      |
| 40°-50°   | 1890.1  | 18.4      |
| 50°-60°   | 2633.9  | 25.7      |
| 60°-70°   | 2442.5  | 23.8      |
| 70°-80°   | 973.4   | 9.5       |
| 80°-90°   | 102.3   | 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°    | 10259.0 | 100.0     |
| 0°-180°   | 10259.0 | 100.0     |



REPORT NUMBER: P200262

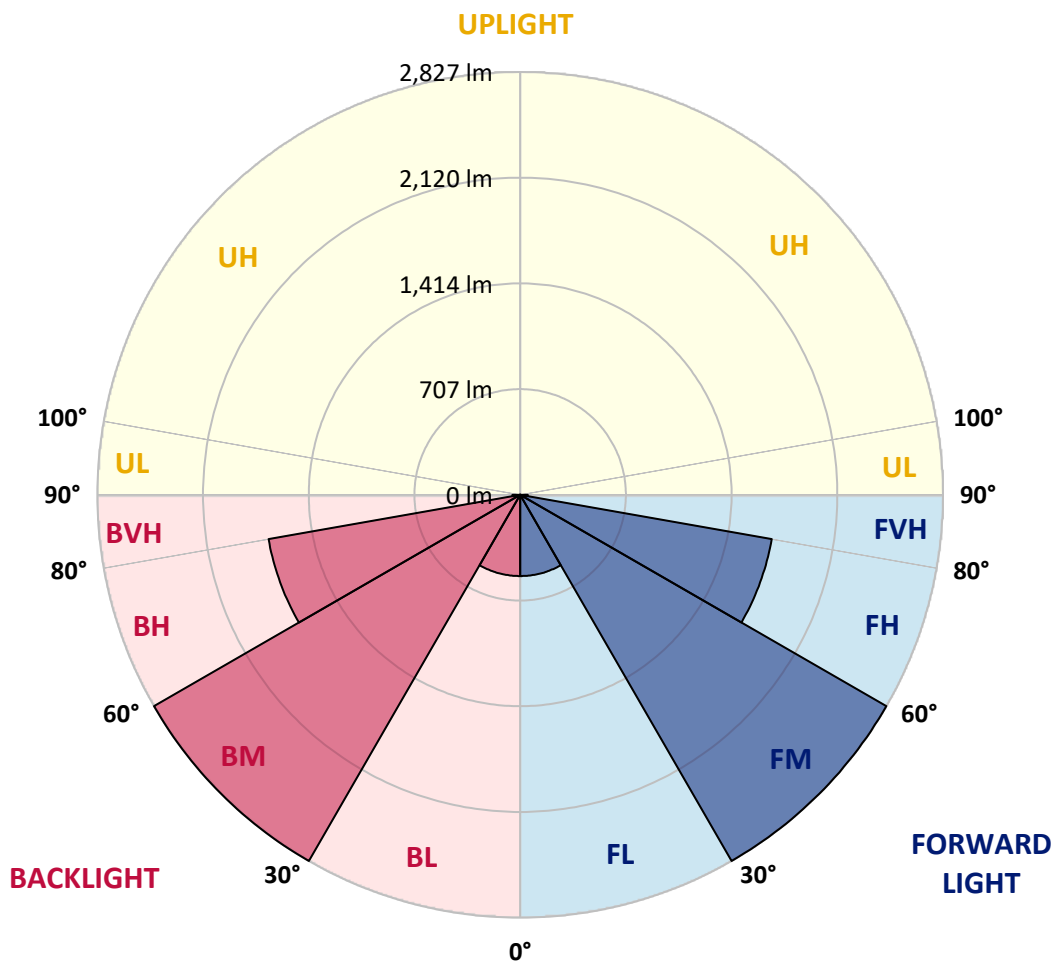
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 543.3  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 2827.1 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 1708.0 | 16.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 51.2   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 543.3  | 5.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2827.1 | 27.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1708.0 | 16.6      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 51.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium





REPORT NUMBER: P200262

CATALOG NUMBER: GPC-AF-02-LED-E1-RW-7050-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 |
| 2.5°  | 1136.0 | 1135.1 | 1136.0 | 1135.5 | 1136.5 | 1136.5 | 1137.5 | 1139.4 | 1139.4 | 1140.9 | 1140.4 |
| 5°    | 1124.9 | 1124.4 | 1125.8 | 1127.3 | 1128.7 | 1131.7 | 1134.6 | 1138.9 | 1142.3 | 1144.8 | 1147.2 |
| 7.5°  | 1103.1 | 1103.1 | 1105.0 | 1108.4 | 1111.8 | 1118.1 | 1124.9 | 1133.6 | 1142.3 | 1149.6 | 1155.9 |
| 10°   | 1085.1 | 1086.1 | 1088.5 | 1094.3 | 1100.1 | 1109.8 | 1119.1 | 1131.7 | 1143.8 | 1155.9 | 1165.6 |
| 12.5° | 1074.4 | 1075.9 | 1080.3 | 1089.0 | 1098.7 | 1111.8 | 1125.8 | 1141.8 | 1155.4 | 1170.0 | 1179.7 |
| 15°   | 1077.8 | 1078.8 | 1085.1 | 1095.8 | 1108.4 | 1124.9 | 1143.8 | 1162.7 | 1178.7 | 1194.2 | 1207.3 |
| 17.5° | 1096.7 | 1098.2 | 1105.5 | 1117.6 | 1130.7 | 1150.1 | 1170.4 | 1191.8 | 1211.7 | 1229.1 | 1245.1 |
| 20°   | 1130.7 | 1132.1 | 1141.4 | 1154.4 | 1170.0 | 1189.8 | 1210.2 | 1232.5 | 1254.8 | 1273.2 | 1291.2 |
| 22.5° | 1178.7 | 1181.1 | 1189.8 | 1202.9 | 1220.4 | 1241.7 | 1266.0 | 1289.7 | 1311.1 | 1328.0 | 1344.0 |
| 25°   | 1241.7 | 1247.1 | 1255.3 | 1269.8 | 1288.3 | 1307.7 | 1333.8 | 1358.1 | 1378.5 | 1394.5 | 1406.1 |
| 27.5° | 1330.9 | 1338.2 | 1344.5 | 1358.6 | 1376.5 | 1394.9 | 1421.1 | 1442.5 | 1461.8 | 1477.4 | 1486.1 |
| 30°   | 1449.2 | 1456.5 | 1462.8 | 1476.4 | 1492.9 | 1510.3 | 1535.1 | 1554.0 | 1566.1 | 1578.2 | 1577.7 |
| 32.5° | 1592.8 | 1600.5 | 1602.9 | 1617.5 | 1634.5 | 1653.4 | 1675.7 | 1686.3 | 1696.0 | 1697.5 | 1688.8 |
| 35°   | 1753.2 | 1757.1 | 1766.8 | 1786.2 | 1805.6 | 1821.1 | 1842.5 | 1847.8 | 1847.8 | 1840.5 | 1821.1 |
| 37.5° | 1929.3 | 1931.7 | 1945.3 | 1967.1 | 1986.9 | 2002.9 | 2017.5 | 2028.2 | 2022.8 | 2007.3 | 1974.8 |
| 40°   | 2122.2 | 2126.6 | 2146.0 | 2165.4 | 2187.7 | 2202.7 | 2218.2 | 2220.2 | 2214.8 | 2192.0 | 2147.9 |
| 42.5° | 2306.5 | 2310.3 | 2329.7 | 2360.3 | 2389.4 | 2410.2 | 2424.8 | 2427.7 | 2410.7 | 2389.9 | 2335.1 |
| 45°   | 2465.0 | 2475.2 | 2500.4 | 2536.3 | 2578.5 | 2608.1 | 2627.9 | 2636.2 | 2621.1 | 2594.0 | 2530.5 |
| 47.5° | 2590.6 | 2600.8 | 2636.7 | 2679.3 | 2731.7 | 2779.7 | 2812.7 | 2830.1 | 2826.2 | 2805.9 | 2736.5 |
| 50°   | 2682.7 | 2692.4 | 2731.2 | 2783.6 | 2844.7 | 2904.3 | 2960.5 | 3002.2 | 3016.8 | 3007.6 | 2944.1 |
| 52.5° | 2693.4 | 2709.4 | 2755.0 | 2825.3 | 2904.8 | 2986.2 | 3066.2 | 3137.0 | 3185.0 | 3192.3 | 3145.3 |
| 55°   | 2544.5 | 2560.5 | 2623.6 | 2727.8 | 2846.1 | 2979.0 | 3107.0 | 3226.2 | 3320.8 | 3369.3 | 3344.6 |
| 57.5° | 2193.5 | 2222.1 | 2288.5 | 2410.7 | 2584.8 | 2783.6 | 2987.7 | 3199.6 | 3392.1 | 3520.6 | 3545.3 |
| 60°   | 1681.0 | 1714.9 | 1781.9 | 1911.8 | 2105.7 | 2342.8 | 2615.3 | 2928.5 | 3268.4 | 3557.4 | 3730.0 |
| 62.5° | 1078.3 | 1110.3 | 1180.6 | 1293.6 | 1451.7 | 1708.6 | 2001.0 | 2372.9 | 2829.6 | 3285.9 | 3697.0 |
| 65°   | 554.2  | 571.6  | 608.5  | 676.9  | 800.0  | 992.0  | 1254.3 | 1625.2 | 2147.4 | 2710.4 | 3304.8 |
| 67.5° | 351.0  | 354.4  | 362.7  | 372.4  | 403.9  | 470.3  | 592.5  | 823.8  | 1253.4 | 1840.5 | 2536.3 |
| 70°   | 303.5  | 303.5  | 299.6  | 298.2  | 302.1  | 311.3  | 330.2  | 384.0  | 529.0  | 873.7  | 1462.8 |
| 72.5° | 277.8  | 274.9  | 268.1  | 262.8  | 261.8  | 261.8  | 265.7  | 273.9  | 297.2  | 355.9  | 572.6  |
| 75°   | 256.0  | 247.8  | 238.6  | 232.2  | 229.8  | 227.4  | 226.9  | 228.4  | 233.2  | 242.4  | 273.5  |
| 77.5° | 229.3  | 218.7  | 208.0  | 201.7  | 198.8  | 195.4  | 192.5  | 189.1  | 186.7  | 189.6  | 203.2  |
| 80°   | 197.3  | 185.2  | 177.0  | 173.1  | 170.2  | 165.3  | 159.0  | 153.2  | 147.9  | 146.9  | 155.2  |
| 82.5° | 159.0  | 145.0  | 145.5  | 146.9  | 141.6  | 134.8  | 128.0  | 121.7  | 112.5  | 107.6  | 112.5  |
| 85°   | 128.5  | 121.2  | 117.8  | 127.0  | 119.3  | 109.1  | 98.4   | 87.3   | 72.7   | 61.1   | 66.4   |
| 87.5° | 49.9   | 49.9   | 74.7   | 114.9  | 103.3  | 84.4   | 72.2   | 61.6   | 38.3   | 29.6   | 30.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P200262

CATALOG NUMBER: GPC-AF-02-LED-E1-RW-7050-800

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 |
| 2.5°  | 1139.9 | 1140.9 | 1140.4 | 1139.9 | 1139.9 | 1139.4 | 1139.9 | 1139.9 |
| 5°    | 1148.6 | 1151.1 | 1151.1 | 1152.0 | 1152.0 | 1152.5 | 1153.0 | 1152.5 |
| 7.5°  | 1161.7 | 1166.1 | 1169.0 | 1172.4 | 1172.9 | 1173.4 | 1174.3 | 1173.4 |
| 10°   | 1174.8 | 1183.5 | 1189.8 | 1196.1 | 1199.1 | 1200.0 | 1201.0 | 1201.0 |
| 12.5° | 1191.3 | 1203.4 | 1214.6 | 1225.7 | 1231.1 | 1234.0 | 1234.0 | 1235.9 |
| 15°   | 1218.4 | 1230.6 | 1243.7 | 1258.7 | 1267.9 | 1272.8 | 1274.2 | 1274.2 |
| 17.5° | 1256.8 | 1267.4 | 1278.6 | 1293.1 | 1304.8 | 1311.1 | 1312.5 | 1312.0 |
| 20°   | 1301.4 | 1311.5 | 1317.8 | 1327.1 | 1337.2 | 1344.5 | 1346.5 | 1346.5 |
| 22.5° | 1352.3 | 1358.1 | 1359.1 | 1362.0 | 1370.2 | 1379.9 | 1384.3 | 1385.2 |
| 25°   | 1408.5 | 1410.0 | 1406.1 | 1406.1 | 1411.4 | 1420.6 | 1425.0 | 1425.5 |
| 27.5° | 1481.2 | 1474.0 | 1464.3 | 1460.9 | 1464.3 | 1474.9 | 1480.3 | 1482.2 |
| 30°   | 1571.9 | 1554.5 | 1532.2 | 1520.0 | 1518.1 | 1532.2 | 1541.8 | 1543.3 |
| 32.5° | 1675.7 | 1650.5 | 1620.9 | 1596.2 | 1589.8 | 1598.6 | 1610.2 | 1609.7 |
| 35°   | 1798.8 | 1768.8 | 1732.9 | 1701.4 | 1686.8 | 1695.5 | 1712.0 | 1714.0 |
| 37.5° | 1940.9 | 1901.6 | 1860.4 | 1820.6 | 1797.9 | 1800.3 | 1817.7 | 1823.6 |
| 40°   | 2099.4 | 2048.5 | 1996.6 | 1943.3 | 1910.8 | 1904.5 | 1925.9 | 1929.3 |
| 42.5° | 2269.1 | 2203.7 | 2138.2 | 2072.3 | 2030.6 | 2020.9 | 2045.6 | 2044.2 |
| 45°   | 2450.0 | 2366.6 | 2290.0 | 2217.3 | 2167.8 | 2153.3 | 2173.6 | 2173.6 |
| 47.5° | 2644.4 | 2541.6 | 2450.5 | 2368.0 | 2314.2 | 2293.4 | 2312.8 | 2314.2 |
| 50°   | 2850.5 | 2741.4 | 2634.2 | 2542.6 | 2478.1 | 2451.4 | 2476.7 | 2480.5 |
| 52.5° | 3055.6 | 2949.4 | 2841.3 | 2736.5 | 2658.5 | 2626.0 | 2655.1 | 2667.7 |
| 55°   | 3263.6 | 3159.3 | 3056.1 | 2953.8 | 2861.1 | 2822.8 | 2853.9 | 2869.9 |
| 57.5° | 3483.2 | 3386.7 | 3288.3 | 3185.0 | 3095.8 | 3036.2 | 3069.2 | 3090.5 |
| 60°   | 3740.7 | 3658.3 | 3555.9 | 3442.0 | 3351.8 | 3291.2 | 3310.1 | 3329.0 |
| 62.5° | 3944.3 | 3976.3 | 3889.5 | 3757.7 | 3641.8 | 3564.2 | 3582.6 | 3602.5 |
| 65°   | 3845.9 | 4174.1 | 4251.2 | 4117.9 | 3957.4 | 3836.7 | 3828.9 | 3839.1 |
| 67.5° | 3214.6 | 3852.2 | 4317.2 | 4444.2 | 4309.9 | 4142.1 | 4111.1 | 4126.1 |
| 70°   | 2150.3 | 2944.5 | 3764.9 | 4375.8 | 4538.3 | 4473.3 | 4442.8 | 4452.0 |
| 72.5° | 1032.7 | 1714.9 | 2554.2 | 3366.4 | 3860.9 | 4087.8 | 4160.6 | 4196.0 |
| 75°   | 377.7  | 680.7  | 1231.1 | 1855.1 | 2239.6 | 2592.5 | 2822.8 | 2916.9 |
| 77.5° | 227.9  | 274.9  | 393.2  | 592.0  | 670.6  | 750.6  | 719.5  | 735.0  |
| 80°   | 168.7  | 190.5  | 215.8  | 242.4  | 251.2  | 251.2  | 241.5  | 233.7  |
| 82.5° | 118.3  | 132.4  | 144.5  | 159.0  | 162.9  | 155.6  | 128.0  | 101.8  |
| 85°   | 76.1   | 82.4   | 87.8   | 97.0   | 94.5   | 90.2   | 60.6   | 53.8   |
| 87.5° | 34.9   | 39.8   | 41.7   | 46.1   | 44.1   | 42.2   | 30.1   | 25.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)