

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: P270195

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-5NQ-7027-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8994.3 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

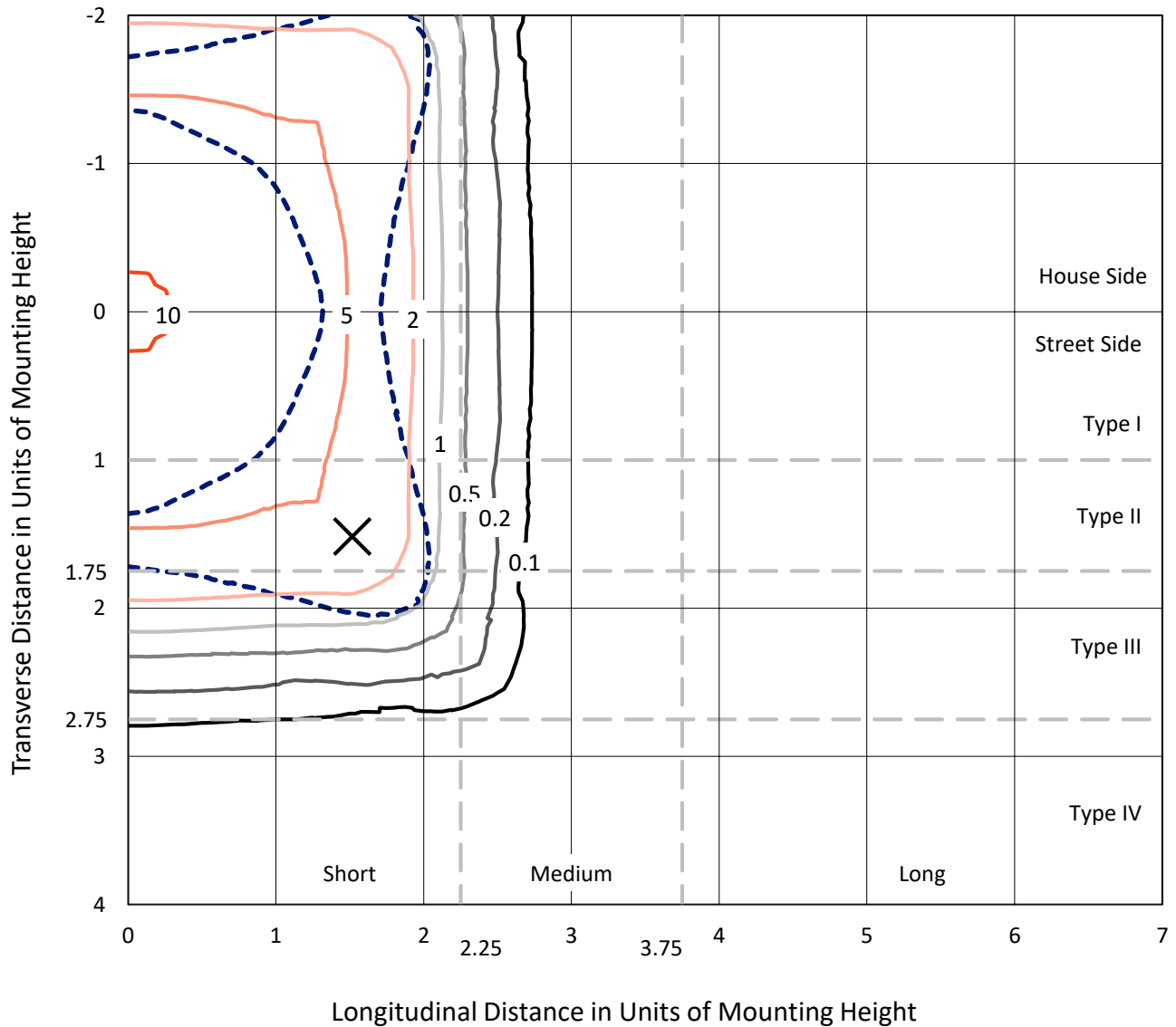
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P270195  
 CATALOG NUMBER: GWC-AF-02-LED-E1-5NQ-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

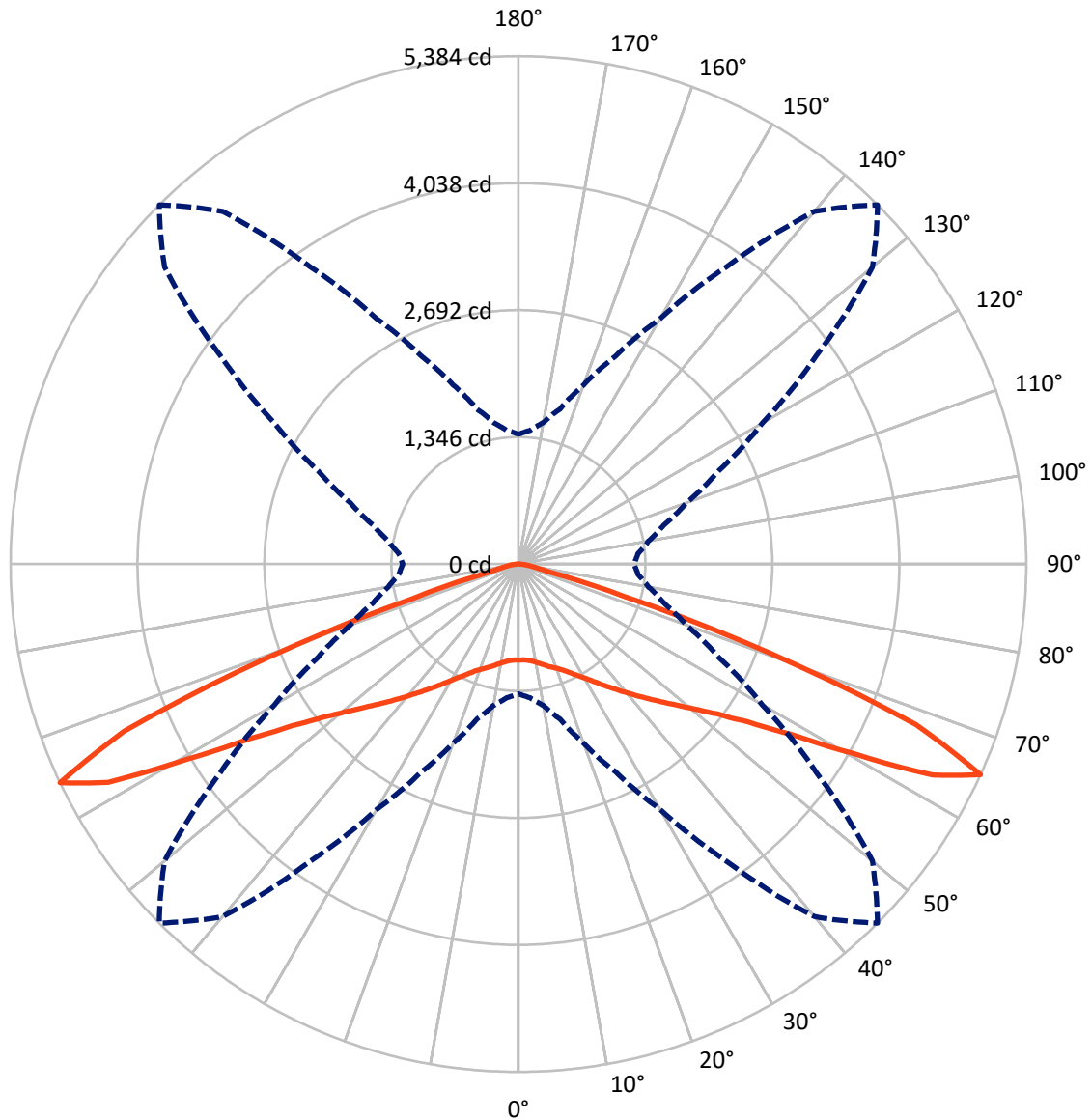
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P270195  
CATALOG NUMBER: GWC-AF-02-LED-E1-5NQ-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P270195

CATALOG NUMBER: GWC-AF-02-LED-E1-5NQ-7027-800

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4497.1   | 0.0    | 4497.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4497.1   | 0.0    | 4497.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8994.3   | 0.0    | 8994.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.2   | 1.1       |
| 10°-20°   | 318.1  | 3.5       |
| 20°-30°   | 594.8  | 6.6       |
| 30°-40°   | 1006.0 | 11.2      |
| 40°-50°   | 1645.0 | 18.3      |
| 50°-60°   | 2615.8 | 29.1      |
| 60°-70°   | 2364.5 | 26.3      |
| 70°-80°   | 299.3  | 3.3       |
| 80°-90°   | 51.5   | 0.6       |
| 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°    | 8994.3 | 100.0     |
| 0°-180°   | 8994.3 | 100.0     |



REPORT NUMBER: P270195

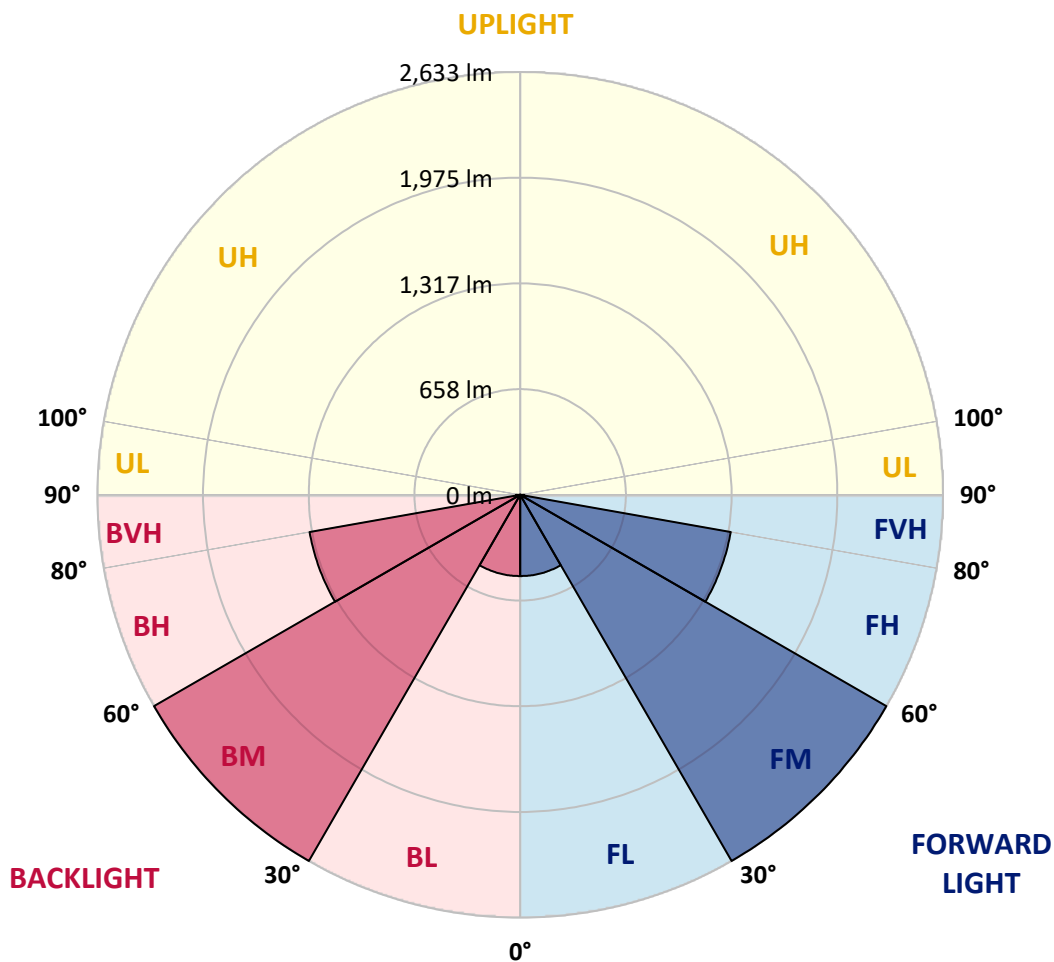
CATALOG NUMBER: GWC-AF-02-LED-E1-5NQ-7027-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 506.1  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2633.4 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 1331.9 | 14.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 25.7   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 506.1  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2633.4 | 29.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1331.9 | 14.8      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 25.7   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P270195

CATALOG NUMBER: GWC-AF-02-LED-E1-5NQ-7027-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 |
| 2.5°  | 1018.6 | 1019.3 | 1020.3 | 1019.3 | 1020.3 | 1018.9 | 1018.0 | 1019.3 | 1018.0 | 1016.9 | 1017.7 |
| 5°    | 1027.4 | 1027.8 | 1027.8 | 1026.6 | 1027.8 | 1027.0 | 1025.8 | 1027.4 | 1026.1 | 1024.8 | 1025.8 |
| 7.5°  | 1042.2 | 1043.8 | 1042.6 | 1041.2 | 1042.2 | 1041.2 | 1040.4 | 1040.9 | 1040.4 | 1039.2 | 1039.6 |
| 10°   | 1061.9 | 1063.2 | 1062.3 | 1061.9 | 1062.8 | 1062.3 | 1061.4 | 1061.1 | 1061.4 | 1060.3 | 1060.3 |
| 12.5° | 1086.0 | 1085.5 | 1085.2 | 1085.5 | 1086.8 | 1086.8 | 1086.4 | 1086.8 | 1087.7 | 1088.0 | 1087.2 |
| 15°   | 1109.5 | 1110.3 | 1110.3 | 1110.3 | 1112.9 | 1115.1 | 1116.2 | 1117.1 | 1118.7 | 1119.2 | 1117.5 |
| 17.5° | 1139.1 | 1139.1 | 1138.6 | 1139.1 | 1141.6 | 1144.9 | 1146.1 | 1147.9 | 1149.6 | 1150.8 | 1148.8 |
| 20°   | 1171.8 | 1172.7 | 1172.7 | 1173.5 | 1176.9 | 1180.7 | 1180.7 | 1181.6 | 1180.7 | 1181.6 | 1180.4 |
| 22.5° | 1212.0 | 1214.4 | 1214.4 | 1214.9 | 1218.2 | 1222.9 | 1221.5 | 1222.9 | 1220.7 | 1222.5 | 1220.7 |
| 25°   | 1264.2 | 1267.9 | 1267.1 | 1267.1 | 1269.7 | 1272.5 | 1273.0 | 1275.6 | 1275.1 | 1277.2 | 1276.0 |
| 27.5° | 1323.2 | 1329.0 | 1330.7 | 1330.3 | 1331.9 | 1334.9 | 1335.7 | 1338.7 | 1336.9 | 1338.7 | 1337.8 |
| 30°   | 1393.9 | 1396.3 | 1399.7 | 1401.0 | 1403.2 | 1406.0 | 1406.0 | 1406.4 | 1404.4 | 1406.9 | 1408.3 |
| 32.5° | 1467.2 | 1471.9 | 1475.1 | 1482.7 | 1486.5 | 1488.6 | 1488.2 | 1489.1 | 1487.0 | 1490.4 | 1492.9 |
| 35°   | 1564.0 | 1567.5 | 1572.9 | 1578.9 | 1583.8 | 1583.4 | 1582.2 | 1582.5 | 1582.5 | 1585.6 | 1588.1 |
| 37.5° | 1680.6 | 1681.5 | 1688.8 | 1697.2 | 1699.8 | 1697.2 | 1689.6 | 1687.8 | 1684.1 | 1687.8 | 1692.0 |
| 40°   | 1804.2 | 1807.1 | 1821.5 | 1827.0 | 1828.2 | 1823.5 | 1812.6 | 1806.2 | 1797.9 | 1802.4 | 1808.4 |
| 42.5° | 1933.5 | 1939.4 | 1952.5 | 1962.1 | 1966.3 | 1963.3 | 1948.2 | 1938.5 | 1927.7 | 1930.1 | 1935.9 |
| 45°   | 2076.7 | 2083.9 | 2102.5 | 2111.6 | 2119.7 | 2115.0 | 2100.2 | 2085.5 | 2068.3 | 2069.5 | 2078.8 |
| 47.5° | 2236.8 | 2244.0 | 2268.0 | 2283.5 | 2287.8 | 2286.8 | 2270.5 | 2250.3 | 2226.7 | 2225.8 | 2233.8 |
| 50°   | 2416.3 | 2423.4 | 2453.4 | 2477.3 | 2489.6 | 2488.2 | 2468.9 | 2440.2 | 2411.6 | 2411.9 | 2422.1 |
| 52.5° | 2591.4 | 2600.4 | 2631.4 | 2672.7 | 2696.7 | 2714.0 | 2702.2 | 2675.3 | 2640.3 | 2641.1 | 2650.4 |
| 55°   | 2755.7 | 2770.6 | 2806.2 | 2862.3 | 2906.9 | 2955.5 | 2969.3 | 2968.4 | 2947.3 | 2953.3 | 2962.6 |
| 57.5° | 2835.3 | 2857.2 | 2912.5 | 3000.9 | 3091.8 | 3190.4 | 3273.9 | 3336.1 | 3362.7 | 3402.8 | 3393.4 |
| 60°   | 2684.6 | 2719.4 | 2800.8 | 2931.0 | 3110.8 | 3316.5 | 3536.6 | 3752.0 | 3935.7 | 4074.3 | 3994.7 |
| 62.5° | 2198.1 | 2243.4 | 2342.2 | 2508.8 | 2781.1 | 3110.0 | 3531.6 | 4040.4 | 4594.9 | 4929.3 | 4690.5 |
| 65°   | 1375.3 | 1422.6 | 1522.7 | 1701.4 | 2019.7 | 2428.8 | 3000.9 | 3844.1 | 4880.0 | 5384.3 | 4898.2 |
| 67.5° | 536.3  | 561.9  | 616.2  | 730.4  | 969.7  | 1333.7 | 1907.8 | 2864.9 | 4103.6 | 4545.6 | 4027.5 |
| 70°   | 268.8  | 271.3  | 281.3  | 302.5  | 353.8  | 459.6  | 699.2  | 1328.1 | 2353.5 | 2842.4 | 2268.8 |
| 72.5° | 194.3  | 194.7  | 199.7  | 208.9  | 225.4  | 248.9  | 294.5  | 406.6  | 765.4  | 1169.8 | 717.3  |
| 75°   | 148.7  | 150.3  | 153.3  | 158.5  | 167.3  | 179.0  | 195.4  | 234.2  | 290.2  | 336.5  | 283.1  |
| 77.5° | 114.5  | 117.9  | 120.1  | 124.7  | 130.2  | 138.2  | 142.8  | 157.6  | 183.3  | 193.0  | 190.0  |
| 80°   | 87.1   | 90.1   | 94.9   | 98.5   | 102.3  | 106.2  | 104.5  | 111.2  | 124.7  | 132.7  | 128.5  |
| 82.5° | 55.7   | 59.0   | 72.5   | 75.8   | 77.6   | 79.9   | 77.1   | 77.6   | 83.5   | 88.5   | 83.5   |
| 85°   | 35.8   | 37.9   | 46.0   | 50.1   | 50.6   | 52.2   | 50.9   | 48.0   | 48.0   | 43.7   | 49.2   |
| 87.5° | 16.3   | 16.9   | 20.7   | 24.4   | 25.3   | 22.7   | 22.3   | 21.5   | 17.2   | 16.3   | 17.6   |
| 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: P270195

CATALOG NUMBER: GWC-AF-02-LED-E1-5NQ-7027-800

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 |
| 2.5°  | 1017.3 | 1018.0 | 1018.6 | 1019.8 | 1020.3 | 1020.3 | 1020.7 | 1021.6 |
| 5°    | 1025.2 | 1026.6 | 1027.0 | 1028.6 | 1029.1 | 1028.6 | 1029.5 | 1029.9 |
| 7.5°  | 1039.6 | 1041.8 | 1042.6 | 1044.3 | 1043.0 | 1044.6 | 1045.1 | 1045.1 |
| 10°   | 1060.7 | 1062.8 | 1063.2 | 1064.9 | 1064.0 | 1064.9 | 1064.9 | 1064.0 |
| 12.5° | 1088.4 | 1088.8 | 1087.7 | 1088.8 | 1087.2 | 1088.0 | 1086.8 | 1086.0 |
| 15°   | 1119.2 | 1118.0 | 1115.1 | 1115.1 | 1112.6 | 1112.9 | 1112.6 | 1112.0 |
| 17.5° | 1149.1 | 1146.5 | 1144.5 | 1143.6 | 1141.6 | 1141.1 | 1139.9 | 1139.9 |
| 20°   | 1182.0 | 1180.7 | 1179.5 | 1177.8 | 1175.7 | 1173.5 | 1173.1 | 1173.9 |
| 22.5° | 1221.5 | 1221.2 | 1221.2 | 1220.3 | 1217.4 | 1215.2 | 1214.0 | 1214.0 |
| 25°   | 1274.7 | 1270.9 | 1270.9 | 1270.5 | 1269.1 | 1267.9 | 1265.4 | 1266.7 |
| 27.5° | 1334.5 | 1332.4 | 1334.1 | 1333.7 | 1332.4 | 1332.4 | 1330.7 | 1330.7 |
| 30°   | 1408.3 | 1407.4 | 1409.9 | 1407.7 | 1403.5 | 1403.2 | 1401.4 | 1399.4 |
| 32.5° | 1493.3 | 1492.4 | 1496.2 | 1493.7 | 1487.0 | 1483.2 | 1479.8 | 1478.2 |
| 35°   | 1588.1 | 1588.6 | 1593.1 | 1591.4 | 1583.8 | 1581.3 | 1575.4 | 1574.5 |
| 37.5° | 1691.7 | 1698.4 | 1706.4 | 1708.0 | 1701.7 | 1700.1 | 1693.8 | 1690.4 |
| 40°   | 1813.4 | 1822.3 | 1834.5 | 1837.5 | 1830.7 | 1829.5 | 1820.5 | 1816.0 |
| 42.5° | 1943.2 | 1958.3 | 1973.4 | 1976.0 | 1969.3 | 1962.5 | 1954.2 | 1950.8 |
| 45°   | 2088.1 | 2106.2 | 2126.0 | 2131.0 | 2120.9 | 2113.0 | 2101.9 | 2101.9 |
| 47.5° | 2250.7 | 2273.4 | 2295.8 | 2309.6 | 2300.4 | 2291.9 | 2278.9 | 2270.5 |
| 50°   | 2442.8 | 2473.9 | 2502.9 | 2517.3 | 2502.6 | 2486.6 | 2463.8 | 2456.2 |
| 52.5° | 2683.6 | 2717.5 | 2742.6 | 2735.1 | 2712.3 | 2690.1 | 2665.2 | 2655.1 |
| 55°   | 2991.1 | 3002.6 | 3002.6 | 2973.8 | 2928.5 | 2890.9 | 2851.8 | 2838.7 |
| 57.5° | 3375.8 | 3332.1 | 3264.6 | 3179.1 | 3071.7 | 2978.2 | 2915.0 | 2885.0 |
| 60°   | 3827.8 | 3617.1 | 3379.2 | 3145.3 | 2953.3 | 2794.8 | 2700.9 | 2658.1 |
| 62.5° | 4129.0 | 3577.9 | 3101.2 | 2725.8 | 2449.5 | 2258.7 | 2129.0 | 2078.4 |
| 65°   | 3858.9 | 2984.0 | 2345.5 | 1896.4 | 1595.2 | 1401.0 | 1272.5 | 1225.4 |
| 67.5° | 2826.4 | 1869.9 | 1249.0 | 895.2  | 655.9  | 523.2  | 470.5  | 448.7  |
| 70°   | 1268.8 | 658.4  | 403.6  | 315.0  | 271.6  | 249.4  | 239.7  | 236.3  |
| 72.5° | 382.5  | 276.8  | 233.4  | 210.7  | 193.3  | 182.4  | 174.5  | 173.6  |
| 75°   | 230.9  | 192.1  | 170.6  | 157.2  | 146.2  | 137.4  | 133.0  | 131.8  |
| 77.5° | 161.3  | 141.2  | 131.1  | 121.4  | 112.8  | 106.2  | 102.3  | 99.4   |
| 80°   | 113.4  | 103.7  | 99.1   | 93.6   | 88.0   | 81.7   | 76.3   | 73.8   |
| 82.5° | 75.8   | 73.8   | 73.8   | 70.3   | 65.8   | 59.7   | 48.9   | 46.4   |
| 85°   | 48.9   | 48.5   | 49.2   | 48.0   | 44.6   | 38.4   | 31.6   | 30.0   |
| 87.5° | 22.7   | 23.1   | 25.7   | 25.3   | 24.4   | 20.2   | 16.0   | 15.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)