

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: P200282

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13350 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

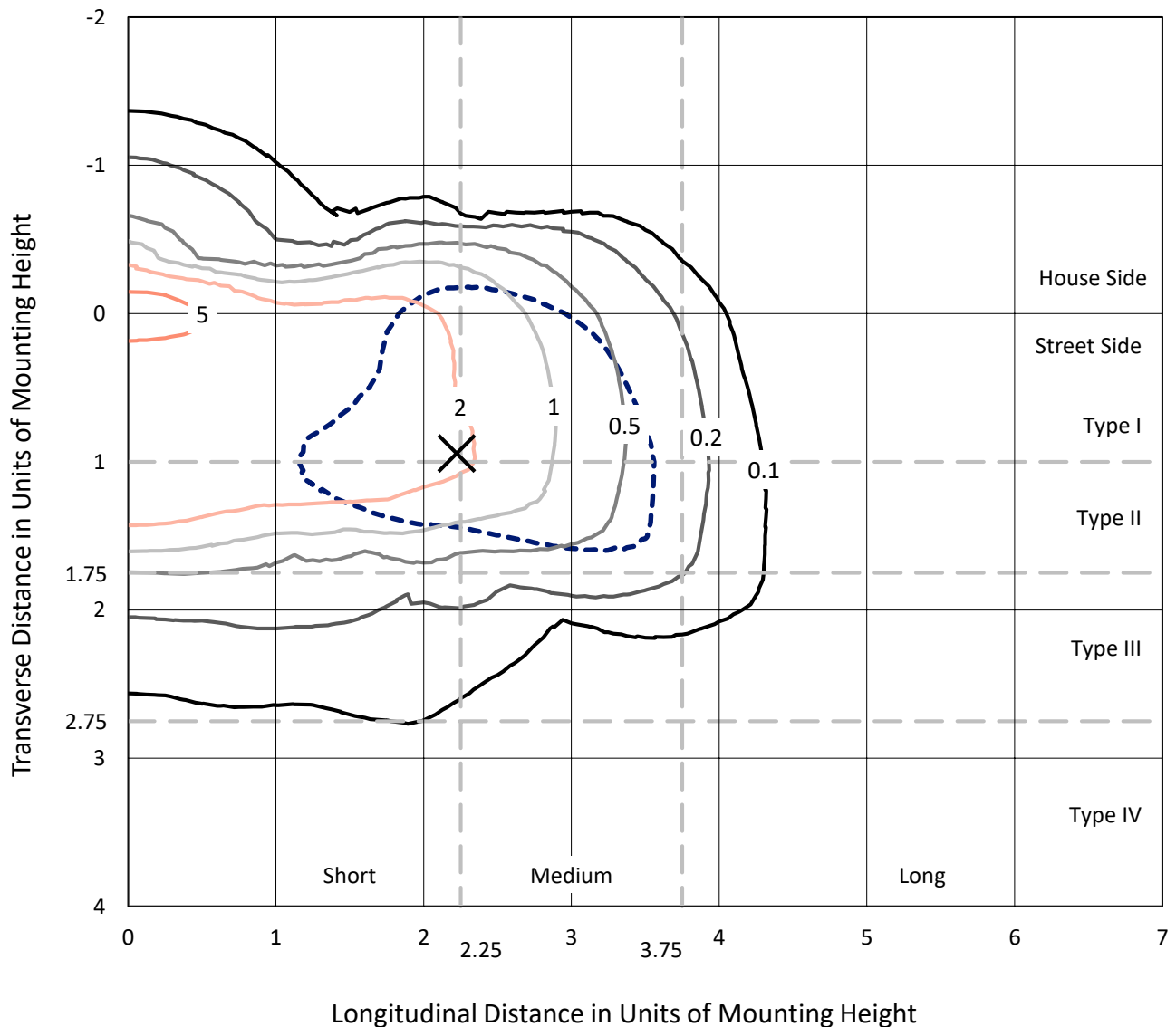
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200282
 CATALOG NUMBER: GPC-AF-02-LED-E1-SL2-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

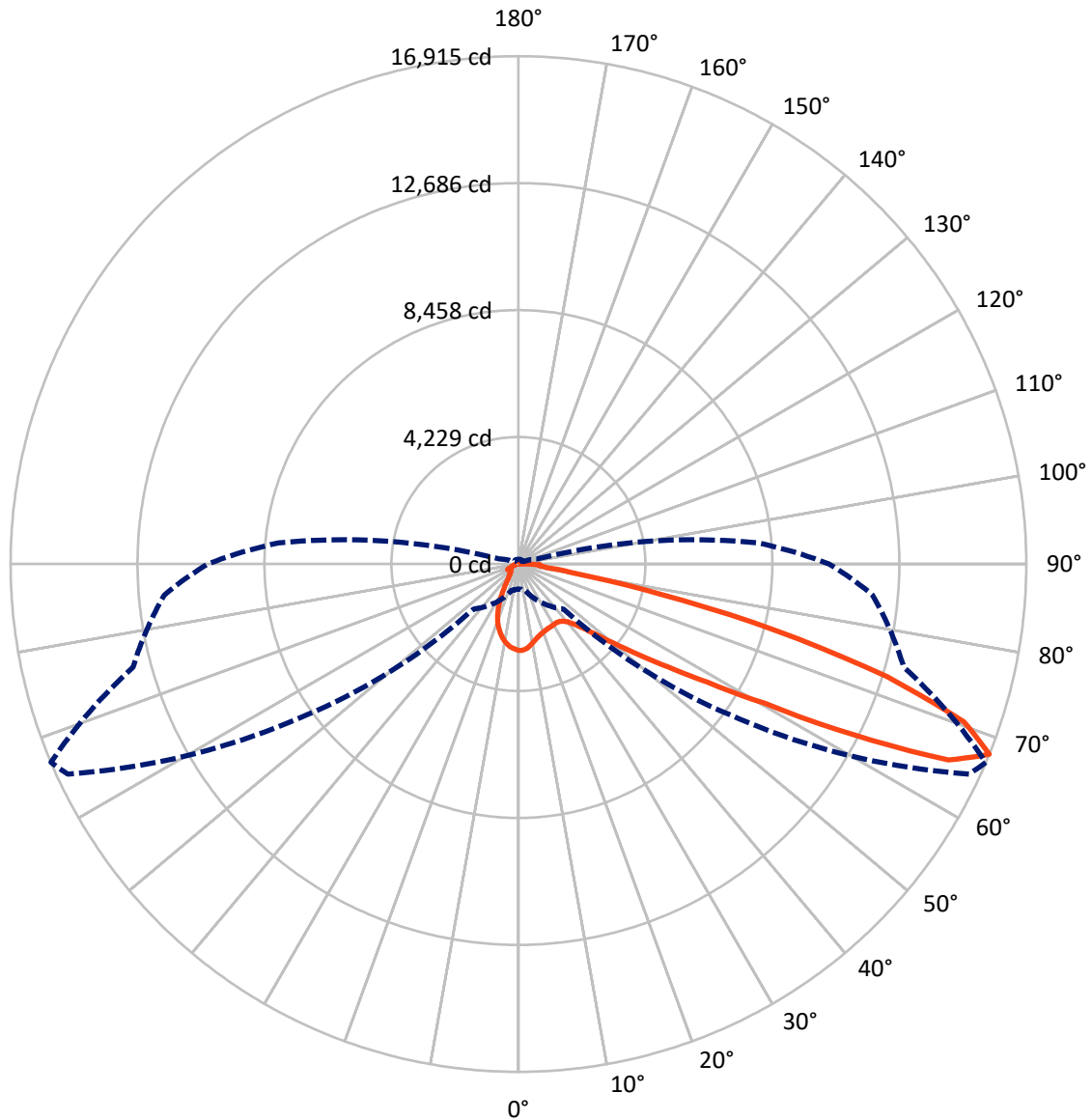
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P200282
CATALOG NUMBER: GPC-AF-02-LED-E1-SL2-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P200282

CATALOG NUMBER: GPC-AF-02-LED-E1-SL2-7050-1200

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2212.0 | 0.0 | 2212.0 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 11138.0 | 0.0 | 11138.0 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 13350.0 | 0.0 | 13350.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.7 | 1.8 |
| 10°-20° | 568.4 | 4.3 |
| 20°-30° | 770.5 | 5.8 |
| 30°-40° | 1095.4 | 8.2 |
| 40°-50° | 1832.6 | 13.7 |
| 50°-60° | 2899.2 | 21.7 |
| 60°-70° | 3693.3 | 27.7 |
| 70°-80° | 1934.5 | 14.5 |
| 80°-90° | 310.3 | 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° | 13350.0 | 100.0 |
| 0°-180° | 13350.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P200282

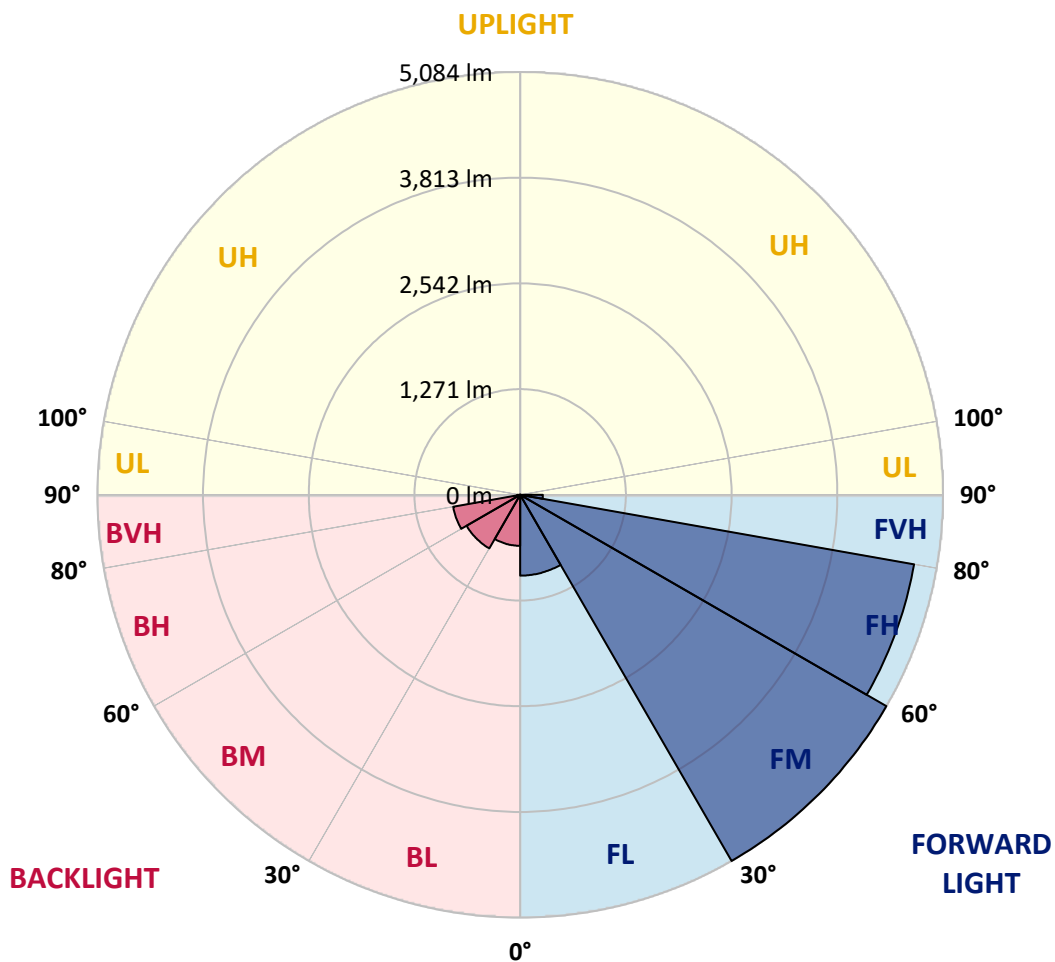
CATALOG NUMBER: GPC-AF-02-LED-E1-SL2-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 971.6 | 7.3 | | | |
| FM (30°-60°) | 5084.0 | 38.1 | | | |
| FH (60°-80°) | 4809.7 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 272.8 | 2.0 | | | G3/500 |
| BL (0°-30°) | 613.1 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 743.3 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 818.1 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 37.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P200282

CATALOG NUMBER: GPC-AF-02-LED-E1-SL2-7050-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 |
| 2.5° | 2761.1 | 2765.7 | 2780.2 | 2789.4 | 2830.8 | 2848.6 | 2861.1 | 2873.6 | 2875.6 | 2881.5 | 2875.6 |
| 5° | 2471.4 | 2481.3 | 2508.3 | 2538.5 | 2618.9 | 2682.1 | 2748.6 | 2817.7 | 2830.2 | 2875.0 | 2887.5 |
| 7.5° | 2246.9 | 2244.3 | 2266.7 | 2302.9 | 2385.2 | 2472.7 | 2589.2 | 2726.8 | 2753.8 | 2854.5 | 2903.3 |
| 10° | 2083.0 | 2081.0 | 2104.7 | 2142.2 | 2220.6 | 2303.5 | 2435.2 | 2623.5 | 2661.7 | 2822.3 | 2918.4 |
| 12.5° | 1961.8 | 1962.5 | 1986.2 | 2027.7 | 2107.3 | 2190.9 | 2324.6 | 2523.4 | 2572.1 | 2784.8 | 2934.2 |
| 15° | 1881.5 | 1886.8 | 1905.9 | 1950.0 | 2027.7 | 2111.3 | 2242.3 | 2448.4 | 2503.0 | 2755.1 | 2952.0 |
| 17.5° | 1854.5 | 1863.1 | 1869.7 | 1901.9 | 1968.4 | 2052.0 | 2180.4 | 2393.1 | 2451.0 | 2734.7 | 2967.8 |
| 20° | 1879.5 | 1889.4 | 1876.9 | 1888.1 | 1930.2 | 2004.0 | 2131.7 | 2349.6 | 2408.9 | 2711.7 | 2969.8 |
| 22.5° | 1986.9 | 1996.1 | 1959.2 | 1926.9 | 1924.3 | 1969.1 | 2091.5 | 2315.4 | 2376.6 | 2694.6 | 2970.4 |
| 25° | 2175.8 | 2181.7 | 2119.8 | 2044.8 | 1971.7 | 1956.6 | 2063.2 | 2291.7 | 2356.8 | 2679.4 | 2957.9 |
| 27.5° | 2407.5 | 2412.1 | 2341.0 | 2230.4 | 2083.6 | 1986.2 | 2053.4 | 2277.8 | 2345.7 | 2666.3 | 2936.8 |
| 30° | 2689.3 | 2711.0 | 2615.6 | 2476.0 | 2262.0 | 2073.8 | 2073.1 | 2270.6 | 2333.1 | 2643.9 | 2895.4 |
| 32.5° | 2977.7 | 2986.9 | 2921.0 | 2779.5 | 2502.3 | 2227.8 | 2128.4 | 2275.9 | 2329.9 | 2616.9 | 2842.7 |
| 35° | 3270.0 | 3281.8 | 3239.0 | 3125.1 | 2830.8 | 2453.6 | 2236.4 | 2306.8 | 2350.3 | 2607.7 | 2805.8 |
| 37.5° | 3648.5 | 3664.3 | 3605.0 | 3473.4 | 3230.5 | 2759.7 | 2416.1 | 2384.5 | 2412.8 | 2634.0 | 2794.6 |
| 40° | 4246.9 | 4239.7 | 4066.5 | 3870.4 | 3667.6 | 3151.5 | 2672.8 | 2516.2 | 2532.6 | 2718.9 | 2828.9 |
| 42.5° | 4943.4 | 4925.7 | 4627.4 | 4319.3 | 4148.2 | 3625.5 | 3012.5 | 2744.6 | 2741.3 | 2886.1 | 2949.3 |
| 45° | 5499.1 | 5484.6 | 5216.0 | 4836.1 | 4699.2 | 4165.3 | 3451.7 | 3085.0 | 3060.6 | 3151.5 | 3171.9 |
| 47.5° | 5799.9 | 5800.6 | 5645.9 | 5335.8 | 5332.5 | 4851.3 | 4015.9 | 3577.4 | 3535.3 | 3578.1 | 3556.3 |
| 50° | 5694.6 | 5708.4 | 5692.0 | 5593.2 | 5910.5 | 5750.6 | 4752.5 | 4264.0 | 4179.1 | 4221.3 | 4137.6 |
| 52.5° | 5185.1 | 5202.8 | 5300.3 | 5451.7 | 6153.5 | 6837.5 | 5834.8 | 5117.2 | 5018.5 | 5003.4 | 4910.5 |
| 55° | 4281.8 | 4303.5 | 4502.4 | 4913.8 | 5951.4 | 7567.6 | 7542.6 | 6204.8 | 6047.5 | 5904.6 | 5865.1 |
| 57.5° | 2951.3 | 2987.5 | 3307.5 | 3918.4 | 5297.6 | 7788.1 | 9576.2 | 7755.2 | 7435.2 | 6936.2 | 6945.4 |
| 60° | 1663.6 | 1705.7 | 2083.0 | 2638.0 | 3978.3 | 7548.5 | 11123.2 | 10103.5 | 9428.0 | 8144.3 | 8212.7 |
| 62.5° | 1057.9 | 1103.4 | 1389.7 | 1832.8 | 2387.1 | 6258.1 | 11757.2 | 13368.2 | 12510.4 | 9633.4 | 9700.6 |
| 65° | 856.5 | 876.2 | 1011.2 | 1512.9 | 1733.4 | 3770.3 | 11276.0 | 16057.5 | 15737.5 | 11523.5 | 11210.1 |
| 67.5° | 836.1 | 842.7 | 912.5 | 1269.9 | 1662.3 | 2119.2 | 8994.2 | 16560.4 | 16915.3 | 13288.5 | 11838.9 |
| 70° | 826.2 | 849.3 | 1028.3 | 1212.0 | 1591.9 | 1787.4 | 5404.9 | 15181.9 | 15742.1 | 13750.0 | 11002.1 |
| 72.5° | 400.9 | 399.6 | 517.5 | 1096.1 | 1793.3 | 1853.9 | 2776.9 | 12283.9 | 12846.1 | 11912.6 | 9040.9 |
| 75° | 323.2 | 295.6 | 282.4 | 401.6 | 1724.2 | 1914.4 | 1769.6 | 8452.4 | 8859.2 | 7986.9 | 5557.7 |
| 77.5° | 306.8 | 273.9 | 250.8 | 251.5 | 728.8 | 2030.3 | 1499.0 | 4678.1 | 4796.6 | 3607.7 | 1522.7 |
| 80° | 254.1 | 223.8 | 207.4 | 233.7 | 352.9 | 1933.5 | 1620.8 | 2117.2 | 1942.7 | 886.1 | 506.9 |
| 82.5° | 176.4 | 160.6 | 156.0 | 196.2 | 282.4 | 1377.9 | 1884.8 | 1137.6 | 953.9 | 443.7 | 312.7 |
| 85° | 112.6 | 96.1 | 106.7 | 142.9 | 219.9 | 636.0 | 1941.4 | 886.8 | 705.1 | 281.8 | 176.4 |
| 87.5° | 52.0 | 42.1 | 52.7 | 79.0 | 143.5 | 219.2 | 1847.3 | 996.1 | 726.1 | 148.8 | 111.3 |
| 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: P200282

CATALOG NUMBER: GPC-AF-02-LED-E1-SL2-7050-1200

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 | 2879.6 |
| 2.5° | 2880.9 | 2868.4 | 2858.5 | 2840.1 | 2819.7 | 2799.9 | 2782.1 | 2759.7 | 2753.2 | 2747.2 | 2756.5 |
| 5° | 2890.1 | 2877.6 | 2841.4 | 2784.8 | 2722.2 | 2663.6 | 2605.0 | 2555.0 | 2524.1 | 2506.9 | 2516.8 |
| 7.5° | 2903.9 | 2886.1 | 2811.1 | 2707.1 | 2594.5 | 2491.8 | 2385.8 | 2300.9 | 2238.3 | 2208.7 | 2217.3 |
| 10° | 2916.4 | 2882.2 | 2759.7 | 2603.7 | 2439.1 | 2286.4 | 2119.2 | 1980.9 | 1878.2 | 1824.2 | 1837.4 |
| 12.5° | 2921.7 | 2867.1 | 2688.0 | 2474.7 | 2248.9 | 2025.0 | 1778.8 | 1572.1 | 1424.6 | 1370.7 | 1359.5 |
| 15° | 2927.0 | 2849.9 | 2609.0 | 2327.9 | 2019.1 | 1702.5 | 1357.5 | 1110.0 | 987.5 | 960.5 | 954.6 |
| 17.5° | 2928.3 | 2820.3 | 2519.5 | 2168.6 | 1749.9 | 1318.6 | 928.3 | 770.9 | 771.6 | 815.0 | 820.3 |
| 20° | 2914.5 | 2776.2 | 2410.8 | 1970.4 | 1427.3 | 911.8 | 637.3 | 610.3 | 709.7 | 818.3 | 831.5 |
| 22.5° | 2882.9 | 2717.6 | 2287.7 | 1739.3 | 1057.9 | 600.4 | 493.1 | 522.7 | 651.1 | 784.1 | 799.2 |
| 25° | 2842.7 | 2646.5 | 2142.2 | 1471.4 | 700.5 | 429.2 | 413.4 | 449.6 | 536.5 | 625.4 | 634.0 |
| 27.5° | 2788.1 | 2562.2 | 1979.0 | 1164.6 | 454.9 | 353.5 | 364.1 | 388.4 | 424.0 | 463.5 | 467.4 |
| 30° | 2717.6 | 2461.5 | 1804.5 | 849.3 | 343.7 | 318.0 | 333.1 | 346.3 | 361.4 | 383.8 | 385.8 |
| 32.5° | 2636.6 | 2364.7 | 1625.4 | 586.6 | 304.8 | 299.5 | 311.4 | 318.0 | 329.8 | 343.7 | 345.0 |
| 35° | 2568.8 | 2272.6 | 1439.8 | 414.8 | 288.4 | 285.7 | 293.6 | 296.3 | 307.4 | 322.6 | 323.9 |
| 37.5° | 2530.0 | 2197.5 | 1248.2 | 334.4 | 277.2 | 273.2 | 277.8 | 277.8 | 293.6 | 316.0 | 319.3 |
| 40° | 2532.6 | 2156.1 | 1056.6 | 302.2 | 267.9 | 262.7 | 263.3 | 263.3 | 283.7 | 308.1 | 310.1 |
| 42.5° | 2604.4 | 2166.6 | 886.8 | 289.7 | 260.7 | 254.8 | 251.5 | 253.5 | 270.6 | 286.4 | 287.7 |
| 45° | 2772.9 | 2241.0 | 727.5 | 281.8 | 253.5 | 251.5 | 244.2 | 243.6 | 250.2 | 257.4 | 257.4 |
| 47.5° | 3049.4 | 2387.8 | 619.5 | 276.5 | 247.5 | 246.9 | 238.3 | 229.8 | 229.1 | 231.7 | 231.7 |
| 50° | 3499.1 | 2640.6 | 547.1 | 270.6 | 243.6 | 238.3 | 228.4 | 215.3 | 210.7 | 212.6 | 212.6 |
| 52.5° | 4173.2 | 3091.5 | 519.4 | 262.7 | 235.0 | 226.5 | 215.3 | 202.1 | 198.2 | 198.8 | 198.8 |
| 55° | 5057.3 | 3784.1 | 515.5 | 253.5 | 225.8 | 212.0 | 202.8 | 192.9 | 188.3 | 189.6 | 189.6 |
| 57.5° | 6137.7 | 4742.0 | 585.9 | 239.0 | 213.3 | 197.5 | 192.2 | 185.7 | 182.4 | 184.3 | 183.7 |
| 60° | 7451.0 | 5995.5 | 869.0 | 223.8 | 200.8 | 184.3 | 184.3 | 179.1 | 176.4 | 178.4 | 177.8 |
| 62.5° | 8963.9 | 7435.2 | 1221.9 | 212.6 | 187.6 | 173.8 | 176.4 | 173.8 | 171.2 | 172.5 | 171.8 |
| 65° | 10305.6 | 8373.4 | 1144.2 | 204.1 | 174.5 | 163.9 | 168.5 | 167.2 | 165.2 | 166.6 | 165.9 |
| 67.5° | 10344.4 | 8025.8 | 642.5 | 194.9 | 162.0 | 154.1 | 160.6 | 160.0 | 158.7 | 160.0 | 159.3 |
| 70° | 9231.8 | 6776.9 | 362.1 | 177.8 | 148.8 | 142.2 | 151.4 | 150.8 | 149.4 | 152.1 | 151.4 |
| 72.5° | 7396.4 | 4917.8 | 264.7 | 156.7 | 135.6 | 129.7 | 140.2 | 139.6 | 139.6 | 143.5 | 141.5 |
| 75° | 4256.1 | 2530.6 | 211.3 | 134.3 | 121.8 | 117.2 | 126.4 | 127.1 | 128.4 | 133.6 | 129.7 |
| 77.5° | 1213.3 | 788.7 | 172.5 | 113.9 | 104.7 | 102.7 | 111.9 | 113.2 | 113.9 | 119.8 | 114.6 |
| 80° | 451.0 | 363.4 | 142.2 | 95.5 | 85.6 | 86.2 | 94.8 | 96.8 | 97.4 | 103.4 | 96.8 |
| 82.5° | 287.7 | 239.6 | 115.2 | 73.7 | 67.2 | 66.5 | 77.0 | 79.7 | 79.7 | 80.3 | 76.4 |
| 85° | 167.9 | 143.5 | 86.9 | 53.3 | 47.4 | 45.4 | 57.3 | 61.9 | 59.9 | 58.6 | 56.0 |
| 87.5° | 112.6 | 98.8 | 53.3 | 29.6 | 25.7 | 24.4 | 33.6 | 36.9 | 35.6 | 33.6 | 31.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)