

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: P200318

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8821 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

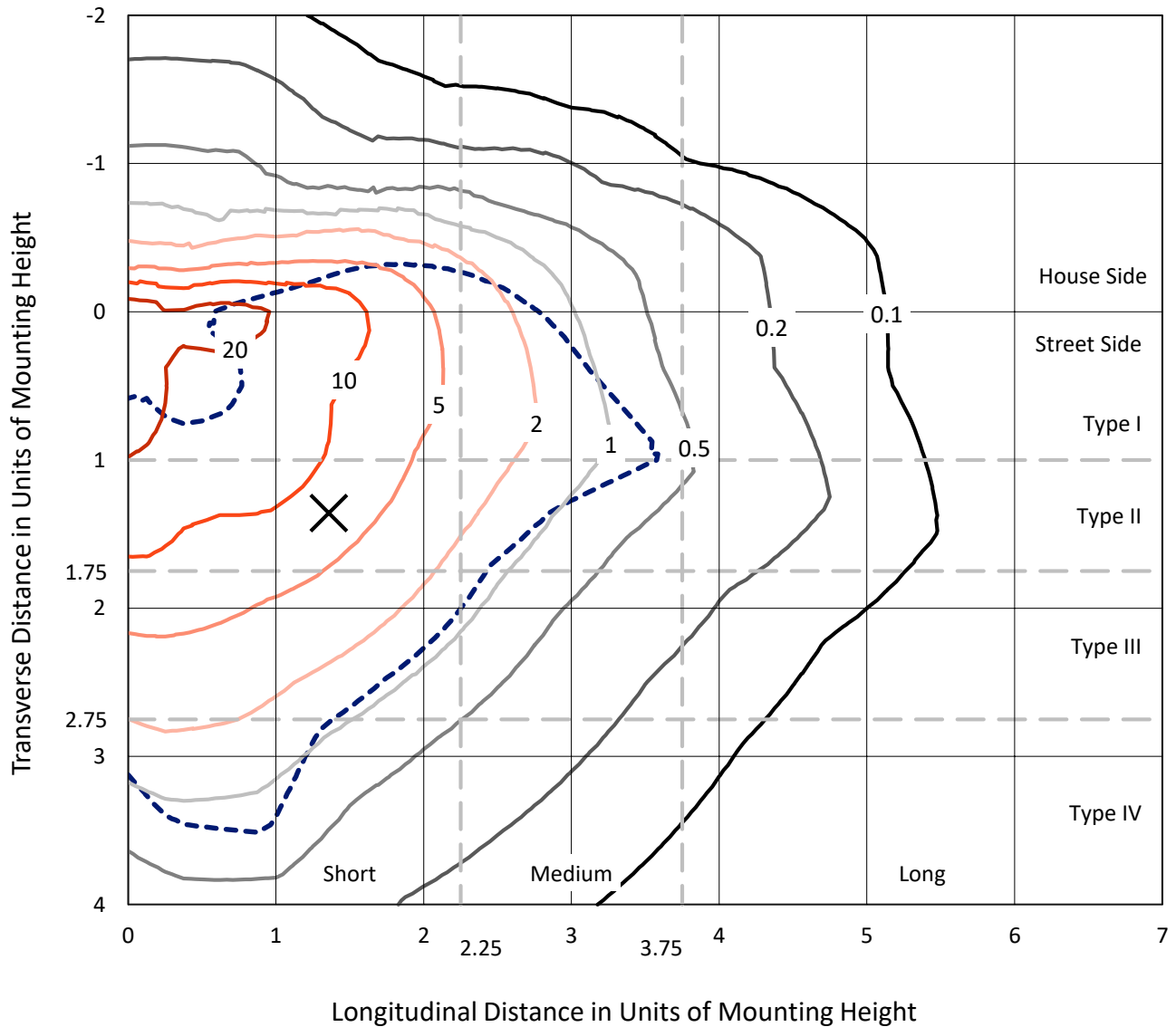
Input Watts (W): 86
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

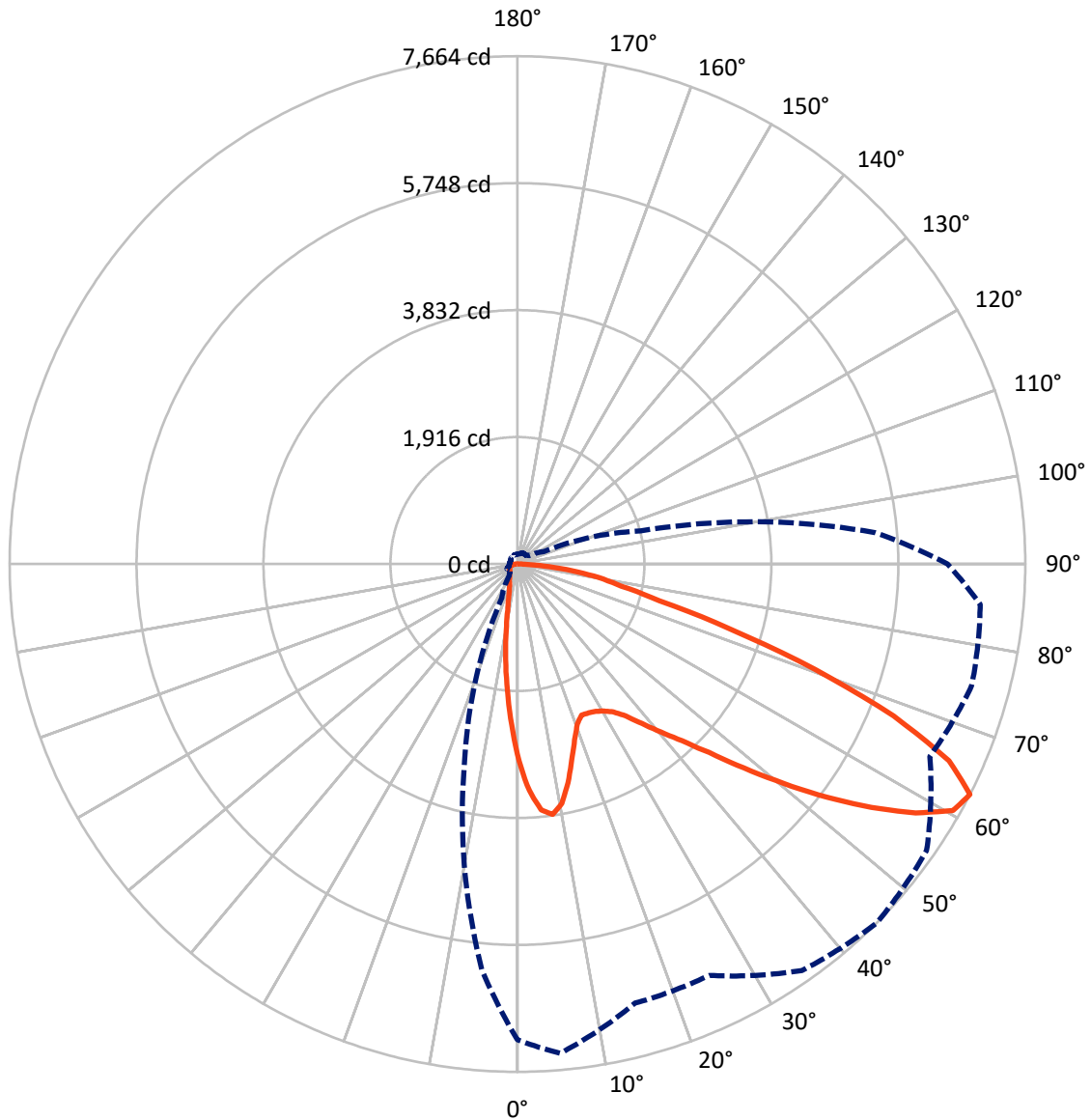
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1459.7 | 0.0 | 1459.7 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 7361.2 | 0.0 | 7361.2 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 8821.0 | 0.0 | 8821.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 216.9 | 2.5 |
| 10°-20° | 397.8 | 4.5 |
| 20°-30° | 580.0 | 6.6 |
| 30°-40° | 893.3 | 10.1 |
| 40°-50° | 1314.7 | 14.9 |
| 50°-60° | 1928.4 | 21.9 |
| 60°-70° | 2155.7 | 24.4 |
| 70°-80° | 1055.4 | 12.0 |
| 80°-90° | 278.7 | 3.2 |
| 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° | 8821.0 | 100.0 |
| 0°-180° | 8821.0 | 100.0 |

Coefficient of Utilization



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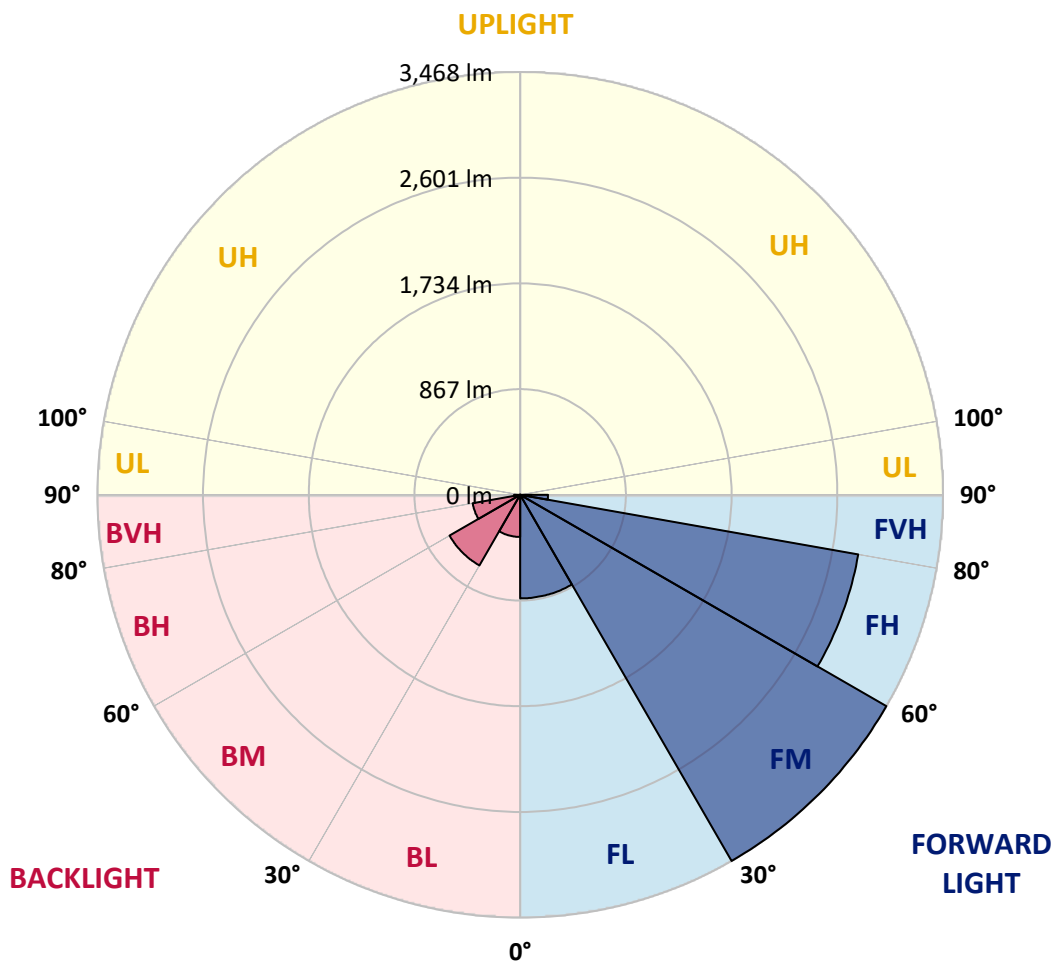
CATALOG NUMBER: GPC-AF-02-LED-E1-SLL-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 849.4 | 9.6 | | | |
| FM | (30°-60°) | 3467.6 | 39.3 | | | |
| FH | (60°-80°) | 2815.4 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 228.8 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 345.4 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 668.9 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 395.7 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 49.8 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 |
| 2.5° | 3096.6 | 3146.0 | 3242.5 | 3314.8 | 3402.6 | 3422.9 | 3451.0 | 3423.4 | 3374.4 | 3309.5 | 3288.1 |
| 5° | 2911.8 | 3017.5 | 3251.8 | 3457.8 | 3641.1 | 3726.5 | 3750.2 | 3679.9 | 3537.8 | 3351.2 | 3237.2 |
| 7.5° | 2615.6 | 2765.9 | 3083.0 | 3386.6 | 3656.6 | 3816.2 | 3812.3 | 3648.9 | 3387.5 | 3083.5 | 2900.7 |
| 10° | 2360.0 | 2531.7 | 2895.4 | 3234.8 | 3521.4 | 3676.0 | 3616.4 | 3407.4 | 3095.6 | 2745.5 | 2547.2 |
| 12.5° | 2217.0 | 2385.2 | 2754.2 | 3095.1 | 3334.7 | 3388.0 | 3342.4 | 3137.8 | 2844.0 | 2490.0 | 2316.4 |
| 15° | 2192.2 | 2377.0 | 2698.0 | 2975.4 | 3109.7 | 3063.1 | 3008.8 | 2917.2 | 2709.6 | 2407.5 | 2226.7 |
| 17.5° | 2299.4 | 2503.1 | 2762.5 | 2892.0 | 2869.2 | 2788.2 | 2772.7 | 2782.9 | 2732.9 | 2499.2 | 2290.7 |
| 20° | 2505.0 | 2749.4 | 2916.2 | 2852.7 | 2686.4 | 2574.8 | 2578.7 | 2734.4 | 2882.3 | 2731.5 | 2493.4 |
| 22.5° | 2793.5 | 3072.3 | 3137.8 | 2873.5 | 2609.3 | 2476.9 | 2508.9 | 2761.0 | 3120.3 | 3070.9 | 2766.9 |
| 25° | 3166.9 | 3421.0 | 3373.9 | 2949.2 | 2617.0 | 2489.0 | 2514.7 | 2853.2 | 3401.6 | 3410.3 | 3105.3 |
| 27.5° | 3528.6 | 3764.3 | 3572.3 | 3049.5 | 2649.0 | 2517.6 | 2551.6 | 2998.2 | 3670.2 | 3778.8 | 3492.3 |
| 30° | 3810.8 | 3974.7 | 3650.8 | 3141.2 | 2712.1 | 2573.4 | 2615.6 | 3135.9 | 3792.4 | 4027.6 | 3790.0 |
| 32.5° | 4044.6 | 4162.4 | 3775.9 | 3254.7 | 2827.9 | 2661.1 | 2735.3 | 3303.2 | 3968.4 | 4264.2 | 4081.4 |
| 35° | 4343.3 | 4376.7 | 3931.6 | 3381.2 | 3006.9 | 2813.9 | 2906.0 | 3467.1 | 4136.2 | 4503.3 | 4368.5 |
| 37.5° | 4693.4 | 4650.2 | 4078.5 | 3554.3 | 3238.2 | 3052.9 | 3129.1 | 3646.9 | 4274.4 | 4774.3 | 4661.8 |
| 40° | 5039.6 | 4935.8 | 4262.8 | 3823.0 | 3575.7 | 3334.7 | 3424.9 | 3839.0 | 4403.4 | 5045.9 | 4948.4 |
| 42.5° | 5333.9 | 5180.2 | 4444.6 | 4118.3 | 3889.9 | 3645.5 | 3753.1 | 4032.4 | 4526.6 | 5277.7 | 5197.2 |
| 45° | 5551.6 | 5360.6 | 4617.7 | 4401.9 | 4322.9 | 4058.6 | 4109.5 | 4254.0 | 4659.9 | 5471.2 | 5401.8 |
| 47.5° | 5746.1 | 5541.9 | 4813.6 | 4688.0 | 4701.6 | 4595.9 | 4514.0 | 4512.0 | 4817.0 | 5629.2 | 5595.3 |
| 50° | 6006.5 | 5793.6 | 5024.1 | 4982.9 | 5269.9 | 5199.6 | 5018.7 | 4813.1 | 5015.8 | 5808.6 | 5804.8 |
| 52.5° | 6365.3 | 6192.2 | 5281.1 | 5300.5 | 5800.4 | 5846.5 | 5622.4 | 5174.9 | 5327.1 | 6137.9 | 6114.6 |
| 55° | 6789.6 | 6688.7 | 5631.2 | 5665.6 | 6451.1 | 6484.1 | 6261.5 | 5627.3 | 5784.9 | 6614.6 | 6550.1 |
| 57.5° | 7120.8 | 7099.5 | 6015.2 | 6103.9 | 6937.0 | 7085.4 | 6880.8 | 6151.0 | 6300.8 | 7016.1 | 6854.1 |
| 60° | 7252.7 | 7356.0 | 6424.0 | 6546.2 | 7386.5 | 7550.9 | 7371.5 | 6611.2 | 6758.1 | 7182.4 | 6833.2 |
| 62.5° | 7181.4 | 7412.2 | 6859.4 | 6849.2 | 7486.9 | 7663.9 | 7537.8 | 6867.2 | 7097.0 | 7010.7 | 6487.5 |
| 65° | 6852.2 | 7210.0 | 7112.1 | 6771.2 | 7143.6 | 7158.1 | 7117.4 | 6752.7 | 7177.0 | 6468.1 | 5819.3 |
| 67.5° | 6135.0 | 6649.9 | 6779.4 | 6102.0 | 6217.4 | 6122.9 | 6054.5 | 6126.3 | 6760.0 | 5654.9 | 4890.7 |
| 70° | 4996.9 | 5771.8 | 5833.9 | 4880.5 | 4828.2 | 4764.6 | 4628.4 | 5022.6 | 5937.1 | 4634.7 | 3880.7 |
| 72.5° | 3674.1 | 4488.7 | 4679.3 | 3579.5 | 3337.1 | 3350.2 | 3242.5 | 3785.1 | 4827.2 | 3442.8 | 2897.3 |
| 75° | 2513.7 | 3250.3 | 3661.0 | 2497.7 | 2206.8 | 2212.1 | 2198.5 | 2682.0 | 3844.8 | 2394.9 | 2168.0 |
| 77.5° | 1836.3 | 2322.2 | 2761.0 | 1679.2 | 1630.2 | 1600.2 | 1592.9 | 1876.6 | 2947.7 | 1738.9 | 1683.6 |
| 80° | 1473.6 | 1715.6 | 1854.8 | 1163.8 | 1251.5 | 1249.1 | 1208.9 | 1290.3 | 1925.1 | 1271.9 | 1259.3 |
| 82.5° | 1022.2 | 1318.4 | 1502.7 | 912.1 | 844.7 | 830.6 | 840.3 | 961.1 | 1360.6 | 869.4 | 826.8 |
| 85° | 539.2 | 875.7 | 1488.2 | 808.3 | 501.4 | 400.0 | 497.5 | 787.0 | 1178.8 | 460.7 | 403.4 |
| 87.5° | 68.9 | 253.1 | 985.3 | 322.5 | 197.8 | 106.7 | 236.1 | 443.2 | 756.9 | 94.1 | 81.9 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 |
| 2.5° | 3233.3 | 3168.8 | 3084.5 | 3006.4 | 2925.4 | 2844.9 | 2739.7 | 2673.8 | 2628.2 | 2619.4 | 2600.0 |
| 5° | 3154.8 | 2940.4 | 2778.5 | 2638.4 | 2511.3 | 2331.9 | 2232.5 | 2150.1 | 2105.9 | 2101.6 | 2090.9 |
| 7.5° | 2792.6 | 2496.8 | 2278.1 | 2079.7 | 1899.8 | 1754.9 | 1594.8 | 1520.2 | 1489.6 | 1496.9 | 1504.2 |
| 10° | 2415.8 | 2085.1 | 1833.9 | 1631.2 | 1472.6 | 1350.5 | 1222.0 | 1135.2 | 1075.0 | 1062.9 | 1060.5 |
| 12.5° | 2140.4 | 1777.7 | 1533.7 | 1390.7 | 1268.0 | 1153.1 | 1016.8 | 914.5 | 836.5 | 809.8 | 791.8 |
| 15° | 2024.0 | 1627.3 | 1371.8 | 1217.6 | 1082.3 | 936.3 | 809.8 | 702.6 | 630.9 | 607.6 | 594.5 |
| 17.5° | 2048.7 | 1585.6 | 1260.3 | 1062.9 | 889.8 | 737.5 | 578.0 | 486.4 | 443.2 | 432.0 | 432.0 |
| 20° | 2178.7 | 1577.9 | 1168.1 | 920.3 | 704.6 | 528.1 | 397.1 | 344.8 | 330.7 | 329.2 | 333.1 |
| 22.5° | 2361.0 | 1605.0 | 1099.3 | 796.7 | 547.5 | 385.5 | 309.4 | 290.0 | 283.7 | 285.1 | 289.5 |
| 25° | 2632.5 | 1696.7 | 1049.3 | 686.6 | 429.6 | 315.7 | 275.9 | 264.3 | 261.4 | 265.2 | 270.6 |
| 27.5° | 2954.5 | 1788.3 | 1018.3 | 603.7 | 362.7 | 288.5 | 262.3 | 250.2 | 252.1 | 257.0 | 261.8 |
| 30° | 3237.2 | 1863.5 | 969.3 | 544.5 | 341.9 | 290.0 | 262.3 | 245.8 | 243.9 | 244.9 | 246.3 |
| 32.5° | 3490.8 | 1914.4 | 912.1 | 488.3 | 294.8 | 257.5 | 244.9 | 242.5 | 231.8 | 227.9 | 228.4 |
| 35° | 3709.5 | 1914.4 | 877.7 | 455.3 | 264.3 | 228.4 | 208.0 | 195.9 | 190.6 | 191.1 | 196.4 |
| 37.5° | 3920.4 | 1876.1 | 860.7 | 436.9 | 247.8 | 217.2 | 199.3 | 188.6 | 181.4 | 179.9 | 180.9 |
| 40° | 4106.6 | 1820.3 | 841.3 | 429.1 | 235.2 | 210.4 | 193.5 | 184.7 | 177.0 | 174.6 | 175.0 |
| 42.5° | 4256.0 | 1775.2 | 820.0 | 419.0 | 227.4 | 205.6 | 189.6 | 181.8 | 173.1 | 170.7 | 170.2 |
| 45° | 4417.5 | 1760.2 | 791.8 | 398.6 | 231.3 | 206.1 | 188.6 | 180.4 | 171.7 | 168.7 | 167.8 |
| 47.5° | 4630.3 | 1807.2 | 762.8 | 374.3 | 239.5 | 208.5 | 190.1 | 180.4 | 171.2 | 168.7 | 167.8 |
| 50° | 4898.5 | 1917.8 | 725.9 | 338.9 | 231.3 | 215.3 | 189.6 | 178.9 | 171.2 | 168.7 | 166.8 |
| 52.5° | 5242.8 | 2067.1 | 677.4 | 298.2 | 226.4 | 231.8 | 188.6 | 176.0 | 168.7 | 165.4 | 162.0 |
| 55° | 5661.2 | 2189.3 | 619.7 | 264.8 | 215.3 | 227.4 | 187.2 | 172.6 | 164.9 | 160.0 | 157.1 |
| 57.5° | 5967.7 | 2233.5 | 545.5 | 242.9 | 199.8 | 220.1 | 185.2 | 168.3 | 160.0 | 156.1 | 152.3 |
| 60° | 5907.1 | 2148.1 | 483.0 | 229.4 | 190.6 | 198.8 | 183.8 | 164.4 | 155.7 | 152.7 | 149.3 |
| 62.5° | 5421.7 | 1925.1 | 442.7 | 223.1 | 184.7 | 181.4 | 185.2 | 160.5 | 151.8 | 148.9 | 147.9 |
| 65° | 4693.9 | 1595.8 | 426.7 | 221.6 | 179.9 | 171.2 | 172.1 | 156.1 | 147.4 | 145.0 | 144.0 |
| 67.5° | 3871.9 | 1287.9 | 412.7 | 226.4 | 173.6 | 163.9 | 159.0 | 150.3 | 143.0 | 140.6 | 138.7 |
| 70° | 3053.4 | 1071.1 | 406.3 | 223.5 | 165.8 | 156.6 | 151.3 | 144.0 | 137.7 | 135.3 | 133.8 |
| 72.5° | 2458.9 | 904.8 | 403.0 | 220.6 | 155.7 | 146.9 | 142.1 | 135.8 | 129.0 | 128.0 | 126.6 |
| 75° | 2080.7 | 711.4 | 369.0 | 211.4 | 144.0 | 135.3 | 131.9 | 126.1 | 119.3 | 119.3 | 118.3 |
| 77.5° | 1605.0 | 514.5 | 306.9 | 187.2 | 131.9 | 122.2 | 119.3 | 114.9 | 107.2 | 108.6 | 108.1 |
| 80° | 1185.6 | 335.6 | 240.0 | 155.2 | 116.9 | 107.6 | 106.2 | 101.8 | 93.6 | 95.5 | 95.5 |
| 82.5° | 812.2 | 220.1 | 172.6 | 127.0 | 99.9 | 91.2 | 91.2 | 86.8 | 77.6 | 78.6 | 81.5 |
| 85° | 407.8 | 151.3 | 129.0 | 98.4 | 77.6 | 73.2 | 73.2 | 69.8 | 60.6 | 61.1 | 65.0 |
| 87.5° | 124.1 | 91.2 | 85.3 | 70.3 | 55.8 | 54.8 | 52.4 | 49.9 | 44.1 | 43.6 | 46.1 |
| 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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 CATALOG NUMBER: GPC-AF-02-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 | 2980.2 |
| 2.5° | 2570.5 | 2542.8 | 2509.4 | 2435.7 | 2410.9 | 2409.5 | 2431.8 | 2408.5 | 2453.1 | 2434.2 | 2455.1 |
| 5° | 2073.0 | 2045.8 | 2008.5 | 1914.4 | 1857.2 | 1818.4 | 1800.0 | 1745.6 | 1784.9 | 1756.3 | 1780.1 |
| 7.5° | 1524.5 | 1530.8 | 1506.1 | 1450.8 | 1326.2 | 1263.7 | 1226.8 | 1193.8 | 1222.4 | 1219.5 | 1265.1 |
| 10° | 1071.6 | 1088.6 | 1071.1 | 1015.4 | 914.5 | 880.1 | 886.9 | 900.0 | 937.3 | 956.7 | 1027.0 |
| 12.5° | 771.5 | 770.5 | 759.4 | 709.4 | 643.0 | 646.9 | 674.5 | 697.3 | 731.7 | 752.1 | 823.8 |
| 15° | 576.1 | 567.3 | 562.5 | 521.8 | 483.9 | 492.2 | 505.8 | 508.2 | 530.0 | 542.1 | 600.3 |
| 17.5° | 435.4 | 439.8 | 445.1 | 416.0 | 387.4 | 382.1 | 371.4 | 358.3 | 364.6 | 367.1 | 396.2 |
| 20° | 345.7 | 363.2 | 376.3 | 355.9 | 326.8 | 311.3 | 297.7 | 289.0 | 289.0 | 288.5 | 296.8 |
| 22.5° | 302.1 | 314.7 | 328.8 | 314.7 | 288.5 | 274.9 | 267.2 | 260.4 | 259.4 | 259.4 | 267.2 |
| 25° | 278.3 | 287.5 | 301.1 | 291.4 | 272.0 | 261.8 | 254.6 | 245.8 | 242.5 | 241.5 | 246.8 |
| 27.5° | 266.7 | 270.6 | 277.4 | 268.6 | 252.1 | 247.3 | 245.4 | 237.6 | 233.2 | 230.8 | 236.1 |
| 30° | 246.8 | 245.8 | 246.3 | 237.6 | 224.5 | 224.0 | 227.4 | 228.9 | 227.4 | 226.9 | 235.2 |
| 32.5° | 228.4 | 226.4 | 226.0 | 218.2 | 206.1 | 203.2 | 206.1 | 209.0 | 212.4 | 217.2 | 226.9 |
| 35° | 205.1 | 210.0 | 212.9 | 206.1 | 191.5 | 182.8 | 179.4 | 174.1 | 171.2 | 171.2 | 182.3 |
| 37.5° | 186.7 | 197.8 | 202.2 | 195.9 | 179.9 | 167.8 | 162.0 | 161.0 | 161.5 | 163.4 | 174.1 |
| 40° | 180.4 | 188.6 | 192.5 | 186.2 | 170.2 | 159.0 | 155.7 | 154.7 | 155.7 | 158.6 | 169.2 |
| 42.5° | 176.5 | 182.3 | 181.8 | 174.1 | 161.0 | 153.2 | 151.3 | 150.3 | 151.3 | 154.2 | 165.8 |
| 45° | 173.1 | 177.0 | 173.1 | 163.9 | 151.8 | 147.9 | 148.4 | 147.9 | 148.9 | 151.8 | 162.9 |
| 47.5° | 170.2 | 171.7 | 166.8 | 157.6 | 145.0 | 144.0 | 146.0 | 147.4 | 148.4 | 150.8 | 162.4 |
| 50° | 165.8 | 165.8 | 161.5 | 151.8 | 139.2 | 139.7 | 142.1 | 145.5 | 146.0 | 148.9 | 158.1 |
| 52.5° | 160.5 | 160.0 | 157.1 | 147.9 | 134.3 | 135.8 | 135.8 | 139.7 | 140.6 | 144.0 | 153.7 |
| 55° | 156.1 | 155.2 | 153.7 | 145.0 | 130.0 | 132.4 | 130.9 | 132.4 | 134.8 | 138.2 | 148.9 |
| 57.5° | 152.3 | 150.3 | 150.3 | 142.6 | 126.6 | 127.5 | 124.1 | 126.1 | 129.0 | 131.9 | 143.0 |
| 60° | 148.4 | 146.4 | 147.4 | 139.2 | 121.2 | 120.3 | 118.8 | 122.7 | 123.7 | 127.0 | 138.2 |
| 62.5° | 144.0 | 142.6 | 143.0 | 135.3 | 117.3 | 114.9 | 114.9 | 118.3 | 118.8 | 123.7 | 134.3 |
| 65° | 140.6 | 138.7 | 138.2 | 131.4 | 113.0 | 110.1 | 111.5 | 113.0 | 114.0 | 118.8 | 129.0 |
| 67.5° | 137.2 | 133.3 | 133.3 | 128.0 | 108.1 | 105.2 | 108.1 | 107.6 | 109.1 | 113.5 | 121.7 |
| 70° | 132.9 | 127.5 | 128.0 | 125.6 | 103.3 | 99.9 | 102.3 | 101.8 | 102.8 | 105.7 | 114.0 |
| 72.5° | 126.1 | 121.7 | 122.7 | 121.7 | 98.4 | 93.6 | 94.6 | 94.6 | 94.6 | 97.0 | 105.7 |
| 75° | 117.3 | 114.0 | 116.9 | 119.3 | 92.6 | 85.8 | 86.8 | 86.8 | 85.3 | 86.8 | 97.5 |
| 77.5° | 106.7 | 104.7 | 114.4 | 111.0 | 85.8 | 77.6 | 77.6 | 76.6 | 73.7 | 75.6 | 87.3 |
| 80° | 95.0 | 93.6 | 105.7 | 93.1 | 78.1 | 67.4 | 66.4 | 64.0 | 61.1 | 62.6 | 74.2 |
| 82.5° | 82.9 | 81.5 | 88.7 | 71.3 | 67.4 | 55.8 | 53.3 | 49.0 | 46.1 | 47.5 | 58.2 |
| 85° | 67.9 | 67.9 | 68.4 | 53.8 | 51.4 | 42.7 | 39.8 | 33.9 | 30.5 | 31.5 | 41.7 |
| 87.5° | 48.5 | 49.9 | 46.1 | 36.9 | 30.5 | 23.8 | 21.8 | 18.4 | 15.5 | 17.9 | 21.8 |
| 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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| 30° | 254.6 | 277.8 | 315.7 | 470.8 | 861.7 | 1896.9 | 3289.1 | 3810.8 |
| 32.5° | 229.4 | 239.5 | 270.6 | 436.9 | 819.5 | 1975.0 | 3520.9 | 4044.6 |
| 35° | 195.4 | 213.4 | 241.5 | 420.9 | 820.5 | 2027.4 | 3773.5 | 4343.3 |
| 37.5° | 186.2 | 204.1 | 224.5 | 415.1 | 831.6 | 2083.1 | 4063.5 | 4693.4 |
| 40° | 180.4 | 196.9 | 214.3 | 411.7 | 842.3 | 2134.1 | 4347.6 | 5039.6 |
| 42.5° | 176.5 | 191.5 | 213.4 | 400.0 | 847.6 | 2179.6 | 4581.4 | 5333.9 |
| 45° | 176.0 | 191.5 | 217.2 | 388.4 | 855.9 | 2228.6 | 4777.3 | 5551.6 |
| 47.5° | 176.5 | 197.8 | 210.0 | 374.3 | 855.9 | 2310.6 | 5007.1 | 5746.1 |
| 50° | 174.6 | 208.5 | 202.2 | 354.5 | 836.0 | 2465.7 | 5322.3 | 6006.5 |
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| 55° | 171.2 | 199.8 | 176.5 | 278.3 | 761.3 | 2980.7 | 6158.7 | 6789.6 |
| 57.5° | 168.7 | 177.0 | 170.7 | 238.6 | 699.2 | 3169.8 | 6456.5 | 7120.8 |
| 60° | 189.1 | 154.7 | 165.8 | 219.2 | 616.3 | 3221.7 | 6444.8 | 7252.7 |
| 62.5° | 175.0 | 145.0 | 159.5 | 214.8 | 558.1 | 3076.2 | 6147.1 | 7181.4 |
| 65° | 137.2 | 138.7 | 153.2 | 227.4 | 542.6 | 2690.7 | 5619.5 | 6852.2 |
| 67.5° | 125.6 | 132.4 | 146.9 | 243.4 | 544.1 | 2154.4 | 4831.1 | 6135.0 |
| 70° | 118.3 | 125.6 | 139.7 | 251.7 | 547.9 | 1606.0 | 3819.6 | 4996.9 |
| 72.5° | 110.1 | 116.4 | 131.4 | 253.1 | 522.7 | 1166.7 | 2943.8 | 3674.1 |
| 75° | 100.4 | 106.2 | 119.8 | 220.6 | 433.0 | 809.3 | 2251.9 | 2513.7 |
| 77.5° | 89.2 | 93.6 | 105.2 | 170.2 | 321.5 | 517.9 | 1690.4 | 1836.3 |
| 80° | 76.1 | 78.6 | 88.3 | 124.6 | 220.1 | 323.9 | 1337.4 | 1473.6 |
| 82.5° | 61.1 | 62.1 | 68.4 | 93.6 | 143.0 | 208.0 | 895.6 | 1022.2 |
| 85° | 43.2 | 43.2 | 47.0 | 67.9 | 97.5 | 131.9 | 486.4 | 539.2 |
| 87.5° | 20.4 | 20.9 | 20.9 | 37.3 | 50.9 | 66.9 | 112.0 | 68.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)