

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: P193811

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193811
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: GLEON-AF-03-LED-E1-SLL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 8586 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

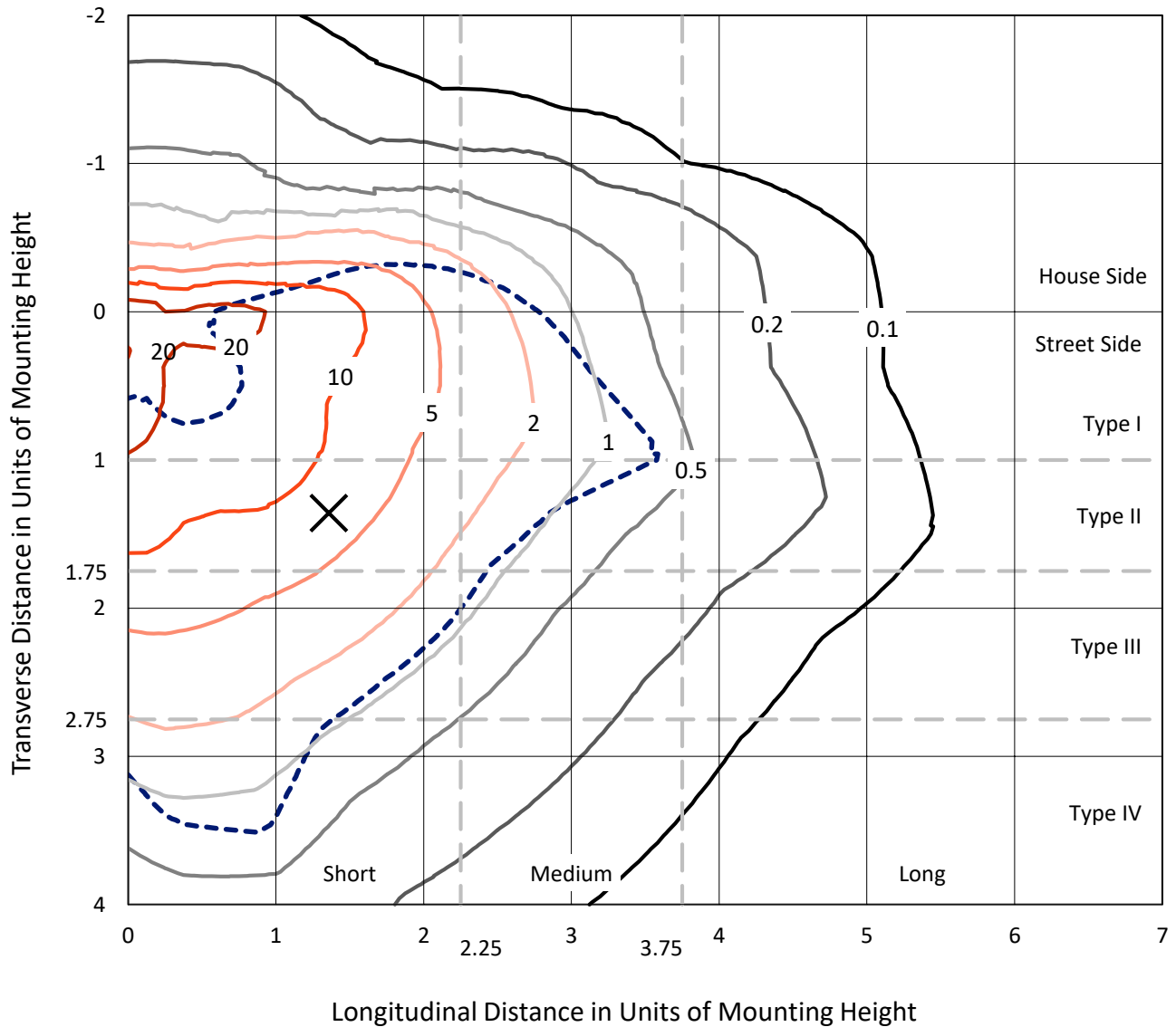
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

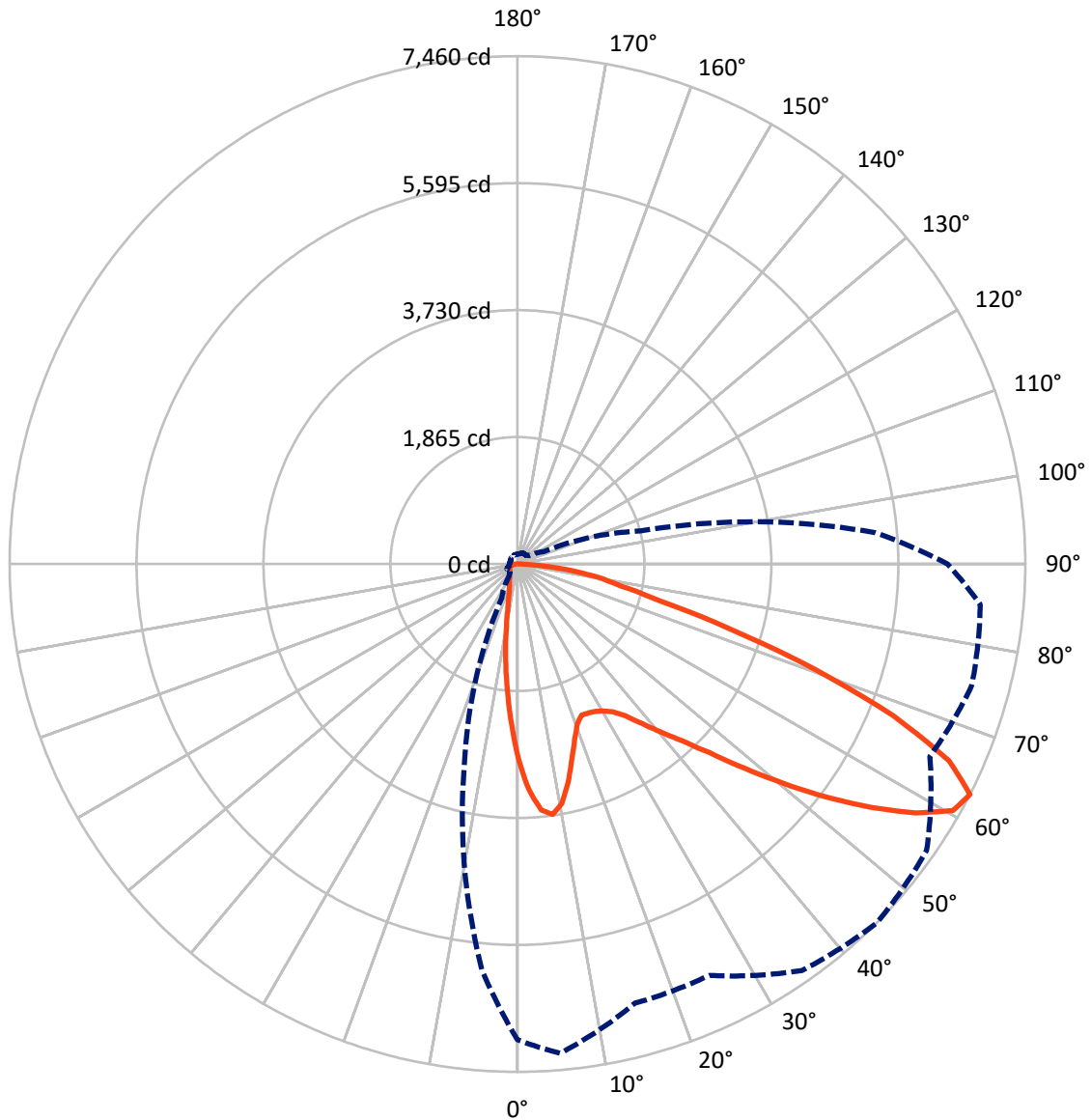
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.1 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 | 1420.9 | 0.0 | 1420.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 7165.1 | 0.0 | 7165.1 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 8586.0 | 0.0 | 8586.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 211.2 | 2.5 |
| 10°-20° | 387.2 | 4.5 |
| 20°-30° | 564.6 | 6.6 |
| 30°-40° | 869.5 | 10.1 |
| 40°-50° | 1279.7 | 14.9 |
| 50°-60° | 1877.1 | 21.9 |
| 60°-70° | 2098.3 | 24.4 |
| 70°-80° | 1027.3 | 12.0 |
| 80°-90° | 271.2 | 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° | 8586.0 | 100.0 |
| 0°-180° | 8586.0 | 100.0 |



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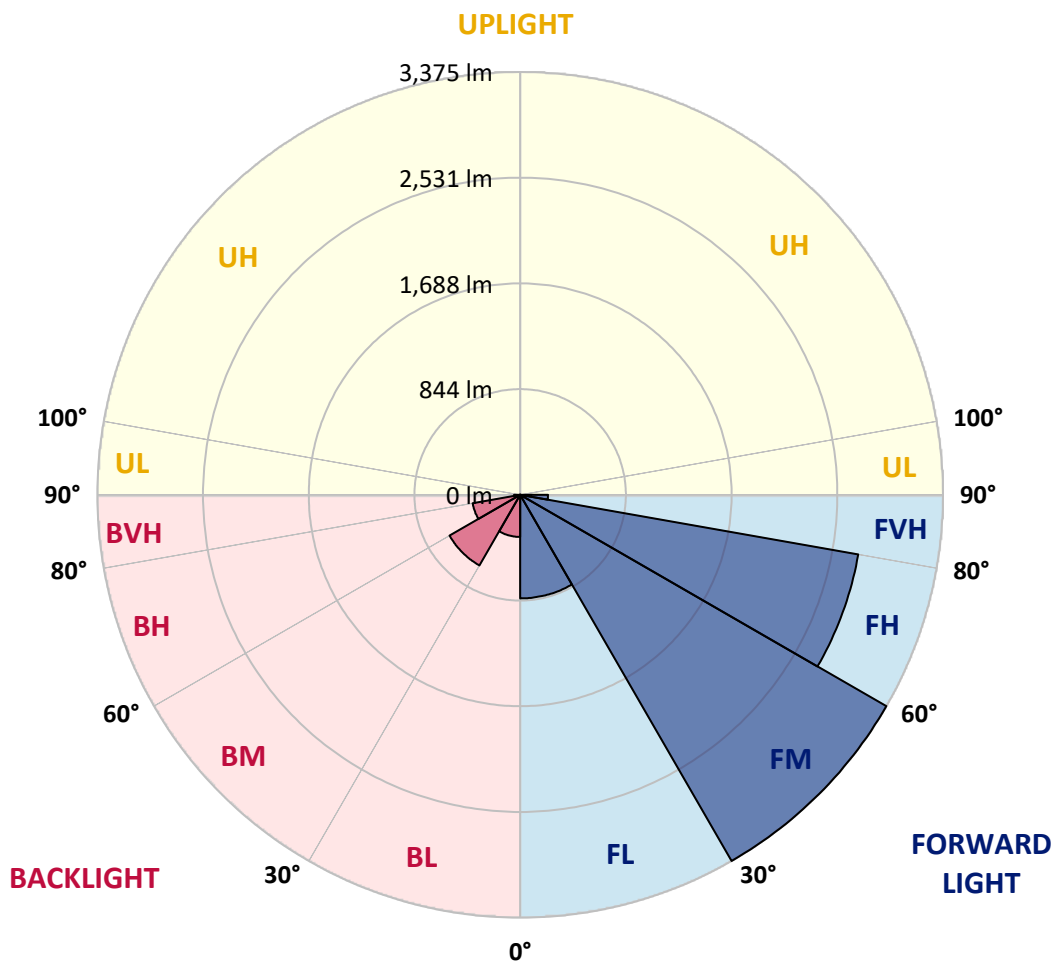
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 826.8 | 9.6 | | | |
| FM (30°-60°) | 3375.2 | 39.3 | | | |
| FH (60°-80°) | 2740.4 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 222.7 | 2.6 | | | G2/225 |
| BL (0°-30°) | 336.2 | 3.9 | B1/500 | | |
| BM (30°-60°) | 651.0 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 385.2 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 48.5 | 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-G2

Type IV Short





REPORT NUMBER: P193811

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 |
| 2.5° | 3014.1 | 3062.2 | 3156.2 | 3226.5 | 3311.9 | 3331.7 | 3359.1 | 3332.2 | 3284.5 | 3221.3 | 3200.5 |
| 5° | 2834.3 | 2937.2 | 3165.1 | 3365.7 | 3544.1 | 3627.2 | 3650.3 | 3581.9 | 3443.6 | 3261.9 | 3151.0 |
| 7.5° | 2545.9 | 2692.2 | 3000.9 | 3296.3 | 3559.2 | 3714.5 | 3710.7 | 3551.7 | 3297.3 | 3001.3 | 2823.4 |
| 10° | 2297.1 | 2464.2 | 2818.2 | 3148.6 | 3427.5 | 3578.1 | 3520.1 | 3316.6 | 3013.1 | 2672.4 | 2479.3 |
| 12.5° | 2157.9 | 2321.7 | 2680.9 | 3012.7 | 3245.8 | 3297.8 | 3253.4 | 3054.2 | 2768.2 | 2423.6 | 2254.7 |
| 15° | 2133.8 | 2313.7 | 2626.1 | 2896.1 | 3026.8 | 2981.5 | 2928.7 | 2839.5 | 2637.4 | 2343.4 | 2167.4 |
| 17.5° | 2238.1 | 2436.4 | 2688.9 | 2814.9 | 2792.7 | 2713.9 | 2698.8 | 2708.7 | 2660.1 | 2432.6 | 2229.7 |
| 20° | 2438.3 | 2676.1 | 2838.5 | 2776.7 | 2614.8 | 2506.2 | 2510.0 | 2661.5 | 2805.5 | 2658.7 | 2426.9 |
| 22.5° | 2719.1 | 2990.5 | 3054.2 | 2797.0 | 2539.7 | 2410.9 | 2442.0 | 2687.5 | 3037.2 | 2989.1 | 2693.1 |
| 25° | 3082.5 | 3329.8 | 3284.1 | 2870.6 | 2547.3 | 2422.7 | 2447.7 | 2777.2 | 3311.0 | 3319.5 | 3022.6 |
| 27.5° | 3434.6 | 3664.0 | 3477.1 | 2968.3 | 2578.4 | 2450.5 | 2483.6 | 2918.3 | 3572.4 | 3678.2 | 3399.2 |
| 30° | 3709.3 | 3868.9 | 3553.6 | 3057.5 | 2639.8 | 2504.8 | 2545.9 | 3052.3 | 3691.4 | 3920.3 | 3689.0 |
| 32.5° | 3936.8 | 4051.5 | 3675.3 | 3168.0 | 2752.6 | 2590.2 | 2662.5 | 3215.2 | 3862.7 | 4150.6 | 3972.7 |
| 35° | 4227.6 | 4260.1 | 3826.8 | 3291.1 | 2926.8 | 2738.9 | 2828.6 | 3374.7 | 4026.0 | 4383.3 | 4252.1 |
| 37.5° | 4568.3 | 4526.3 | 3969.9 | 3459.6 | 3151.9 | 2971.6 | 3045.7 | 3549.8 | 4160.5 | 4647.2 | 4537.7 |
| 40° | 4905.3 | 4804.3 | 4149.2 | 3721.1 | 3480.4 | 3245.8 | 3333.6 | 3736.7 | 4286.1 | 4911.5 | 4816.6 |
| 42.5° | 5191.8 | 5042.2 | 4326.2 | 4008.6 | 3786.3 | 3548.4 | 3653.2 | 3925.0 | 4406.0 | 5137.1 | 5058.7 |
| 45° | 5403.7 | 5217.8 | 4494.7 | 4284.7 | 4207.7 | 3950.5 | 4000.1 | 4140.7 | 4535.8 | 5325.4 | 5257.9 |
| 47.5° | 5593.0 | 5394.3 | 4685.4 | 4563.1 | 4576.4 | 4473.5 | 4393.7 | 4391.8 | 4688.7 | 5479.3 | 5446.2 |
| 50° | 5846.5 | 5639.3 | 4890.2 | 4850.1 | 5129.5 | 5061.1 | 4885.0 | 4684.9 | 4882.2 | 5653.9 | 5650.1 |
| 52.5° | 6195.7 | 6027.2 | 5140.4 | 5159.3 | 5645.9 | 5690.7 | 5472.7 | 5037.0 | 5185.2 | 5974.4 | 5951.7 |
| 55° | 6608.7 | 6510.5 | 5481.1 | 5514.7 | 6279.3 | 6311.4 | 6094.7 | 5477.4 | 5630.8 | 6438.3 | 6375.6 |
| 57.5° | 6931.1 | 6910.3 | 5855.0 | 5941.3 | 6752.2 | 6896.6 | 6697.5 | 5987.1 | 6133.0 | 6829.1 | 6671.5 |
| 60° | 7059.5 | 7160.0 | 6252.8 | 6371.8 | 7189.7 | 7349.7 | 7175.1 | 6435.0 | 6578.0 | 6991.0 | 6651.2 |
| 62.5° | 6990.1 | 7214.7 | 6676.7 | 6666.8 | 7287.4 | 7459.7 | 7337.0 | 6684.2 | 6908.0 | 6823.9 | 6314.7 |
| 65° | 6669.6 | 7017.9 | 6922.6 | 6590.8 | 6953.3 | 6967.4 | 6927.8 | 6572.8 | 6985.8 | 6295.8 | 5664.3 |
| 67.5° | 5971.5 | 6472.8 | 6598.8 | 5939.4 | 6051.8 | 5959.7 | 5893.2 | 5963.0 | 6579.9 | 5504.3 | 4760.4 |
| 70° | 4863.8 | 5618.0 | 5678.4 | 4750.5 | 4699.5 | 4637.7 | 4505.1 | 4888.8 | 5779.0 | 4511.2 | 3777.3 |
| 72.5° | 3576.2 | 4369.2 | 4554.6 | 3484.2 | 3248.2 | 3260.9 | 3156.2 | 3684.3 | 4698.6 | 3351.1 | 2820.1 |
| 75° | 2446.8 | 3163.7 | 3563.5 | 2431.2 | 2148.0 | 2153.2 | 2140.0 | 2610.5 | 3742.4 | 2331.1 | 2110.2 |
| 77.5° | 1787.4 | 2260.3 | 2687.5 | 1634.5 | 1586.8 | 1557.5 | 1550.5 | 1826.6 | 2869.2 | 1692.5 | 1638.7 |
| 80° | 1434.4 | 1669.9 | 1805.3 | 1132.8 | 1218.2 | 1215.8 | 1176.7 | 1255.9 | 1873.8 | 1238.0 | 1225.7 |
| 82.5° | 994.9 | 1283.3 | 1462.7 | 887.8 | 822.2 | 808.5 | 817.9 | 935.5 | 1324.4 | 846.3 | 804.7 |
| 85° | 524.8 | 852.4 | 1448.5 | 786.8 | 488.0 | 389.4 | 484.3 | 766.0 | 1147.4 | 448.4 | 392.7 |
| 87.5° | 67.0 | 246.4 | 959.1 | 313.9 | 192.6 | 103.8 | 229.9 | 431.4 | 736.8 | 91.6 | 79.8 |
| 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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CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 |
| 2.5° | 3147.2 | 3084.4 | 3002.3 | 2926.3 | 2847.5 | 2769.1 | 2666.7 | 2602.5 | 2558.2 | 2549.7 | 2530.8 |
| 5° | 3070.7 | 2862.1 | 2704.5 | 2568.1 | 2444.4 | 2269.8 | 2173.0 | 2092.8 | 2049.8 | 2045.6 | 2035.2 |
| 7.5° | 2718.2 | 2430.2 | 2217.4 | 2024.3 | 1849.2 | 1708.1 | 1552.4 | 1479.7 | 1449.9 | 1457.0 | 1464.1 |
| 10° | 2351.4 | 2029.5 | 1785.0 | 1587.8 | 1433.4 | 1314.5 | 1189.4 | 1104.9 | 1046.4 | 1034.6 | 1032.2 |
| 12.5° | 2083.3 | 1730.3 | 1492.9 | 1353.6 | 1234.2 | 1122.4 | 989.8 | 890.2 | 814.2 | 788.2 | 770.7 |
| 15° | 1970.1 | 1584.0 | 1335.2 | 1185.2 | 1053.5 | 911.4 | 788.2 | 683.9 | 614.1 | 591.4 | 578.7 |
| 17.5° | 1994.1 | 1543.4 | 1226.7 | 1034.6 | 866.1 | 717.9 | 562.6 | 473.4 | 431.4 | 420.5 | 420.5 |
| 20° | 2120.6 | 1535.8 | 1137.0 | 895.8 | 685.8 | 514.0 | 386.6 | 335.6 | 321.9 | 320.5 | 324.3 |
| 22.5° | 2298.1 | 1562.3 | 1070.0 | 775.5 | 532.9 | 375.2 | 301.1 | 282.2 | 276.1 | 277.5 | 281.8 |
| 25° | 2562.4 | 1651.5 | 1021.4 | 668.3 | 418.2 | 307.3 | 268.6 | 257.2 | 254.4 | 258.2 | 263.4 |
| 27.5° | 2875.8 | 1740.7 | 991.2 | 587.6 | 353.0 | 280.8 | 255.3 | 243.5 | 245.4 | 250.2 | 254.9 |
| 30° | 3151.0 | 1813.8 | 943.5 | 530.0 | 332.7 | 282.2 | 255.3 | 239.3 | 237.4 | 238.4 | 239.8 |
| 32.5° | 3397.8 | 1863.4 | 887.8 | 475.3 | 287.0 | 250.6 | 238.4 | 236.0 | 225.6 | 221.8 | 222.3 |
| 35° | 3610.7 | 1863.4 | 854.3 | 443.2 | 257.2 | 222.3 | 202.5 | 190.7 | 185.5 | 186.0 | 191.2 |
| 37.5° | 3816.0 | 1826.1 | 837.8 | 425.3 | 241.2 | 211.4 | 194.0 | 183.6 | 176.5 | 175.1 | 176.1 |
| 40° | 3997.2 | 1771.8 | 818.9 | 417.7 | 228.9 | 204.8 | 188.3 | 179.8 | 172.3 | 169.9 | 170.4 |
| 42.5° | 4142.6 | 1727.9 | 798.1 | 407.8 | 221.4 | 200.1 | 184.5 | 177.0 | 168.5 | 166.1 | 165.7 |
| 45° | 4299.8 | 1713.3 | 770.7 | 388.0 | 225.1 | 200.6 | 183.6 | 175.6 | 167.1 | 164.3 | 163.3 |
| 47.5° | 4507.0 | 1759.1 | 742.4 | 364.4 | 233.2 | 203.0 | 185.0 | 175.6 | 166.6 | 164.3 | 163.3 |
| 50° | 4768.0 | 1866.7 | 706.6 | 329.9 | 225.1 | 209.6 | 184.5 | 174.2 | 166.6 | 164.3 | 162.4 |
| 52.5° | 5103.1 | 2012.1 | 659.4 | 290.3 | 220.4 | 225.6 | 183.6 | 171.3 | 164.3 | 160.9 | 157.6 |
| 55° | 5510.4 | 2131.0 | 603.2 | 257.7 | 209.6 | 221.4 | 182.2 | 168.0 | 160.5 | 155.8 | 152.9 |
| 57.5° | 5808.7 | 2174.0 | 531.0 | 236.5 | 194.5 | 214.3 | 180.3 | 163.8 | 155.8 | 152.0 | 148.2 |
| 60° | 5749.7 | 2090.9 | 470.1 | 223.2 | 185.5 | 193.5 | 178.9 | 160.0 | 151.5 | 148.7 | 145.4 |
| 62.5° | 5277.3 | 1873.8 | 430.9 | 217.1 | 179.8 | 176.5 | 180.3 | 156.2 | 147.7 | 144.9 | 144.0 |
| 65° | 4568.8 | 1553.3 | 415.3 | 215.7 | 175.1 | 166.6 | 167.6 | 152.0 | 143.5 | 141.1 | 140.2 |
| 67.5° | 3768.8 | 1253.6 | 401.7 | 220.4 | 169.0 | 159.5 | 154.8 | 146.3 | 139.2 | 136.9 | 135.0 |
| 70° | 2972.1 | 1042.6 | 395.5 | 217.6 | 161.4 | 152.5 | 147.3 | 140.2 | 134.0 | 131.7 | 130.3 |
| 72.5° | 2393.4 | 880.7 | 392.2 | 214.8 | 151.5 | 143.0 | 138.3 | 132.2 | 125.5 | 124.6 | 123.2 |
| 75° | 2025.3 | 692.4 | 359.2 | 205.8 | 140.2 | 131.7 | 128.4 | 122.7 | 116.1 | 116.1 | 115.2 |
| 77.5° | 1562.3 | 500.8 | 298.8 | 182.2 | 128.4 | 118.9 | 116.1 | 111.9 | 104.3 | 105.7 | 105.3 |
| 80° | 1154.0 | 326.6 | 233.6 | 151.0 | 113.7 | 104.8 | 103.4 | 99.1 | 91.1 | 93.0 | 93.0 |
| 82.5° | 790.6 | 214.3 | 168.0 | 123.7 | 97.2 | 88.7 | 88.7 | 84.5 | 75.5 | 76.5 | 79.3 |
| 85° | 396.9 | 147.3 | 125.5 | 95.8 | 75.5 | 71.3 | 71.3 | 68.0 | 59.0 | 59.5 | 63.2 |
| 87.5° | 120.8 | 88.7 | 83.1 | 68.4 | 54.3 | 53.3 | 51.0 | 48.6 | 43.0 | 42.5 | 44.8 |
| 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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CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 | 2900.8 |
| 2.5° | 2502.0 | 2475.1 | 2442.5 | 2370.8 | 2346.7 | 2345.3 | 2367.0 | 2344.3 | 2387.8 | 2369.4 | 2389.7 |
| 5° | 2017.7 | 1991.3 | 1955.0 | 1863.4 | 1807.7 | 1769.9 | 1752.0 | 1699.1 | 1737.4 | 1709.5 | 1732.7 |
| 7.5° | 1483.9 | 1490.1 | 1466.0 | 1412.2 | 1290.9 | 1230.0 | 1194.1 | 1162.0 | 1189.9 | 1187.0 | 1231.4 |
| 10° | 1043.1 | 1059.6 | 1042.6 | 988.3 | 890.2 | 856.7 | 863.3 | 876.0 | 912.3 | 931.2 | 999.7 |
| 12.5° | 750.9 | 750.0 | 739.1 | 690.5 | 625.9 | 629.6 | 656.5 | 678.7 | 712.2 | 732.0 | 801.9 |
| 15° | 560.7 | 552.2 | 547.5 | 507.9 | 471.0 | 479.1 | 492.3 | 494.6 | 515.9 | 527.7 | 584.3 |
| 17.5° | 423.8 | 428.1 | 433.3 | 405.0 | 377.1 | 371.9 | 361.5 | 348.8 | 354.9 | 357.3 | 385.6 |
| 20° | 336.5 | 353.5 | 366.3 | 346.4 | 318.1 | 303.0 | 289.8 | 281.3 | 281.3 | 280.8 | 288.9 |
| 22.5° | 294.0 | 306.3 | 320.0 | 306.3 | 280.8 | 267.6 | 260.1 | 253.5 | 252.5 | 252.5 | 260.1 |
| 25° | 270.9 | 279.9 | 293.1 | 283.7 | 264.8 | 254.9 | 247.8 | 239.3 | 236.0 | 235.0 | 240.2 |
| 27.5° | 259.6 | 263.4 | 270.0 | 261.5 | 245.4 | 240.7 | 238.8 | 231.3 | 227.0 | 224.7 | 229.9 |
| 30° | 240.2 | 239.3 | 239.8 | 231.3 | 218.5 | 218.1 | 221.4 | 222.8 | 221.4 | 220.9 | 228.9 |
| 32.5° | 222.3 | 220.4 | 219.9 | 212.4 | 200.6 | 197.8 | 200.6 | 203.4 | 206.7 | 211.4 | 220.9 |
| 35° | 199.6 | 204.4 | 207.2 | 200.6 | 186.4 | 177.9 | 174.6 | 169.4 | 166.6 | 166.6 | 177.5 |
| 37.5° | 181.7 | 192.6 | 196.8 | 190.7 | 175.1 | 163.3 | 157.6 | 156.7 | 157.2 | 159.1 | 169.4 |
| 40° | 175.6 | 183.6 | 187.4 | 181.2 | 165.7 | 154.8 | 151.5 | 150.6 | 151.5 | 154.3 | 164.7 |
| 42.5° | 171.8 | 177.5 | 177.0 | 169.4 | 156.7 | 149.1 | 147.3 | 146.3 | 147.3 | 150.1 | 161.4 |
| 45° | 168.5 | 172.3 | 168.5 | 159.5 | 147.7 | 144.0 | 144.4 | 144.0 | 144.9 | 147.7 | 158.6 |
| 47.5° | 165.7 | 167.1 | 162.4 | 153.4 | 141.1 | 140.2 | 142.1 | 143.5 | 144.4 | 146.8 | 158.1 |
| 50° | 161.4 | 161.4 | 157.2 | 147.7 | 135.5 | 135.9 | 138.3 | 141.6 | 142.1 | 144.9 | 153.9 |
| 52.5° | 156.2 | 155.8 | 152.9 | 144.0 | 130.7 | 132.2 | 132.2 | 135.9 | 136.9 | 140.2 | 149.6 |
| 55° | 152.0 | 151.0 | 149.6 | 141.1 | 126.5 | 128.9 | 127.4 | 128.9 | 131.2 | 134.5 | 144.9 |
| 57.5° | 148.2 | 146.3 | 146.3 | 138.8 | 123.2 | 124.1 | 120.8 | 122.7 | 125.5 | 128.4 | 139.2 |
| 60° | 144.4 | 142.5 | 143.5 | 135.5 | 118.0 | 117.1 | 115.6 | 119.4 | 120.4 | 123.7 | 134.5 |
| 62.5° | 140.2 | 138.8 | 139.2 | 131.7 | 114.2 | 111.9 | 111.9 | 115.2 | 115.6 | 120.4 | 130.7 |
| 65° | 136.9 | 135.0 | 134.5 | 127.9 | 110.0 | 107.1 | 108.6 | 110.0 | 110.9 | 115.6 | 125.5 |
| 67.5° | 133.6 | 129.8 | 129.8 | 124.6 | 105.3 | 102.4 | 105.3 | 104.8 | 106.2 | 110.4 | 118.5 |
| 70° | 129.3 | 124.1 | 124.6 | 122.2 | 100.5 | 97.2 | 99.6 | 99.1 | 100.1 | 102.9 | 110.9 |
| 72.5° | 122.7 | 118.5 | 119.4 | 118.5 | 95.8 | 91.1 | 92.0 | 92.0 | 92.0 | 94.4 | 102.9 |
| 75° | 114.2 | 110.9 | 113.7 | 116.1 | 90.1 | 83.5 | 84.5 | 84.5 | 83.1 | 84.5 | 94.9 |
| 77.5° | 103.8 | 101.9 | 111.4 | 108.1 | 83.5 | 75.5 | 75.5 | 74.6 | 71.7 | 73.6 | 85.0 |
| 80° | 92.5 | 91.1 | 102.9 | 90.6 | 76.0 | 65.6 | 64.7 | 62.3 | 59.5 | 60.9 | 72.2 |
| 82.5° | 80.7 | 79.3 | 86.4 | 69.4 | 65.6 | 54.3 | 51.9 | 47.7 | 44.8 | 46.3 | 56.6 |
| 85° | 66.1 | 66.1 | 66.5 | 52.4 | 50.0 | 41.5 | 38.7 | 33.0 | 29.7 | 30.7 | 40.6 |
| 87.5° | 47.2 | 48.6 | 44.8 | 35.9 | 29.7 | 23.1 | 21.2 | 17.9 | 15.1 | 17.5 | 21.2 |
| 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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| 32.5° | 223.2 | 233.2 | 263.4 | 425.3 | 797.7 | 1922.4 | 3427.1 | 3936.8 |
| 35° | 190.2 | 207.7 | 235.0 | 409.7 | 798.6 | 1973.4 | 3673.0 | 4227.6 |
| 37.5° | 181.2 | 198.7 | 218.5 | 404.0 | 809.5 | 2027.6 | 3955.2 | 4568.3 |
| 40° | 175.6 | 191.6 | 208.6 | 400.7 | 819.8 | 2077.2 | 4231.8 | 4905.3 |
| 42.5° | 171.8 | 186.4 | 207.7 | 389.4 | 825.0 | 2121.6 | 4459.3 | 5191.8 |
| 45° | 171.3 | 186.4 | 211.4 | 378.1 | 833.1 | 2169.2 | 4650.0 | 5403.7 |
| 47.5° | 171.8 | 192.6 | 204.4 | 364.4 | 833.1 | 2249.0 | 4873.7 | 5593.0 |
| 50° | 169.9 | 203.0 | 196.8 | 345.0 | 813.7 | 2400.0 | 5180.5 | 5846.5 |
| 52.5° | 169.0 | 201.5 | 182.2 | 315.3 | 780.2 | 2639.8 | 5573.7 | 6195.7 |
| 55° | 166.6 | 194.5 | 171.8 | 270.9 | 741.0 | 2901.3 | 5994.7 | 6608.7 |
| 57.5° | 164.3 | 172.3 | 166.1 | 232.2 | 680.6 | 3085.4 | 6284.5 | 6931.1 |
| 60° | 184.1 | 150.6 | 161.4 | 213.3 | 599.9 | 3135.9 | 6273.1 | 7059.5 |
| 62.5° | 170.4 | 141.1 | 155.3 | 209.1 | 543.3 | 2994.3 | 5983.3 | 6990.1 |
| 65° | 133.6 | 135.0 | 149.1 | 221.4 | 528.2 | 2619.0 | 5469.8 | 6669.6 |
| 67.5° | 122.2 | 128.9 | 143.0 | 236.9 | 529.6 | 2097.0 | 4702.4 | 5971.5 |
| 70° | 115.2 | 122.2 | 135.9 | 245.0 | 533.3 | 1563.2 | 3717.8 | 4863.8 |
| 72.5° | 107.1 | 113.3 | 127.9 | 246.4 | 508.8 | 1135.6 | 2865.4 | 3576.2 |
| 75° | 97.7 | 103.4 | 116.6 | 214.8 | 421.5 | 787.7 | 2191.9 | 2446.8 |
| 77.5° | 86.8 | 91.1 | 102.4 | 165.7 | 312.9 | 504.1 | 1645.3 | 1787.4 |
| 80° | 74.1 | 76.5 | 85.9 | 121.3 | 214.3 | 315.3 | 1301.7 | 1434.4 |
| 82.5° | 59.5 | 60.4 | 66.5 | 91.1 | 139.2 | 202.5 | 871.8 | 994.9 |
| 85° | 42.0 | 42.0 | 45.8 | 66.1 | 94.9 | 128.4 | 473.4 | 524.8 |
| 87.5° | 19.8 | 20.3 | 20.3 | 36.3 | 49.6 | 65.1 | 109.0 | 67.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)