

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: P193830

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193830
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-02-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 8734 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

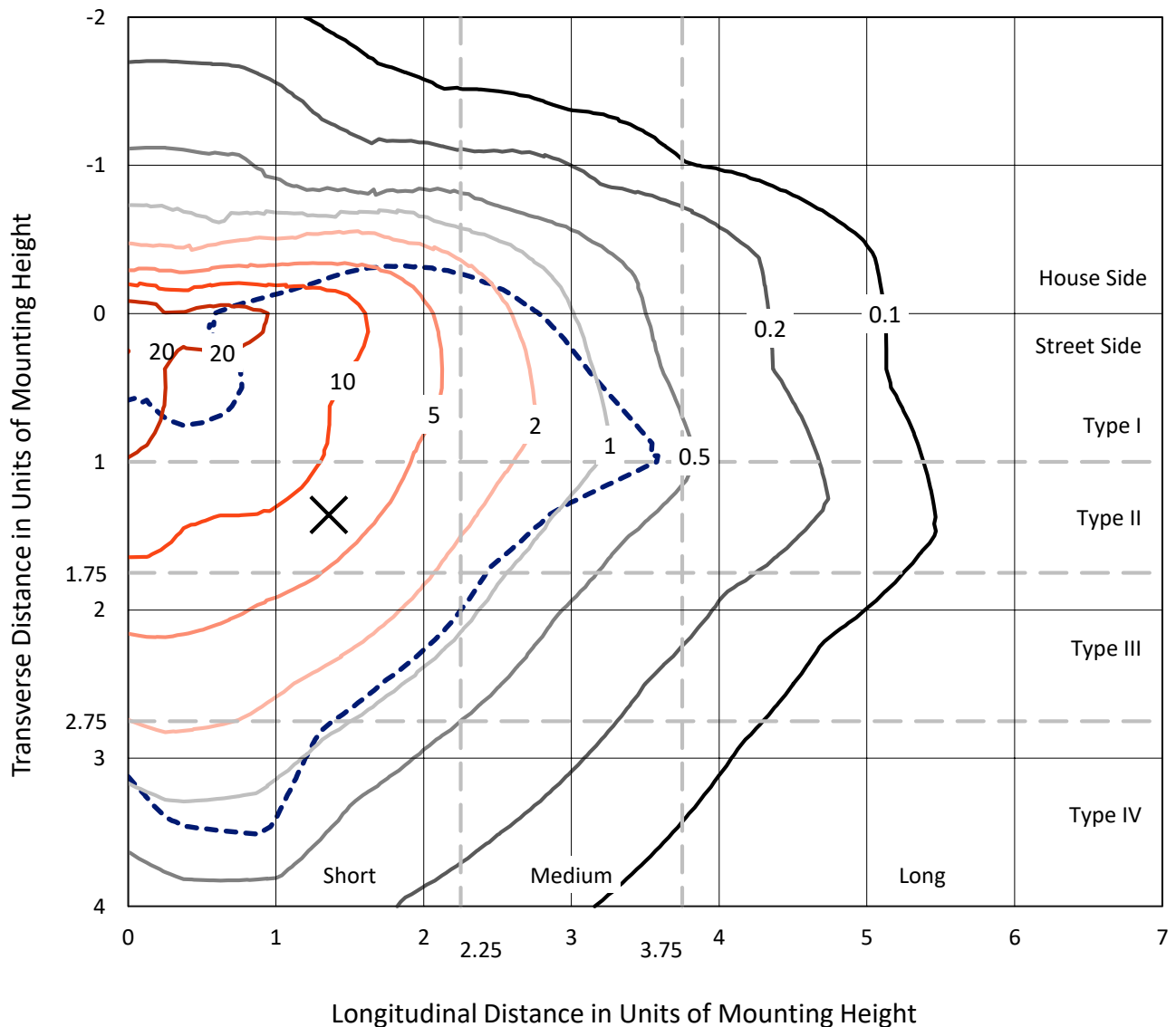
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193830
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Iso-Footcandle Lines of Horizontal Illumination

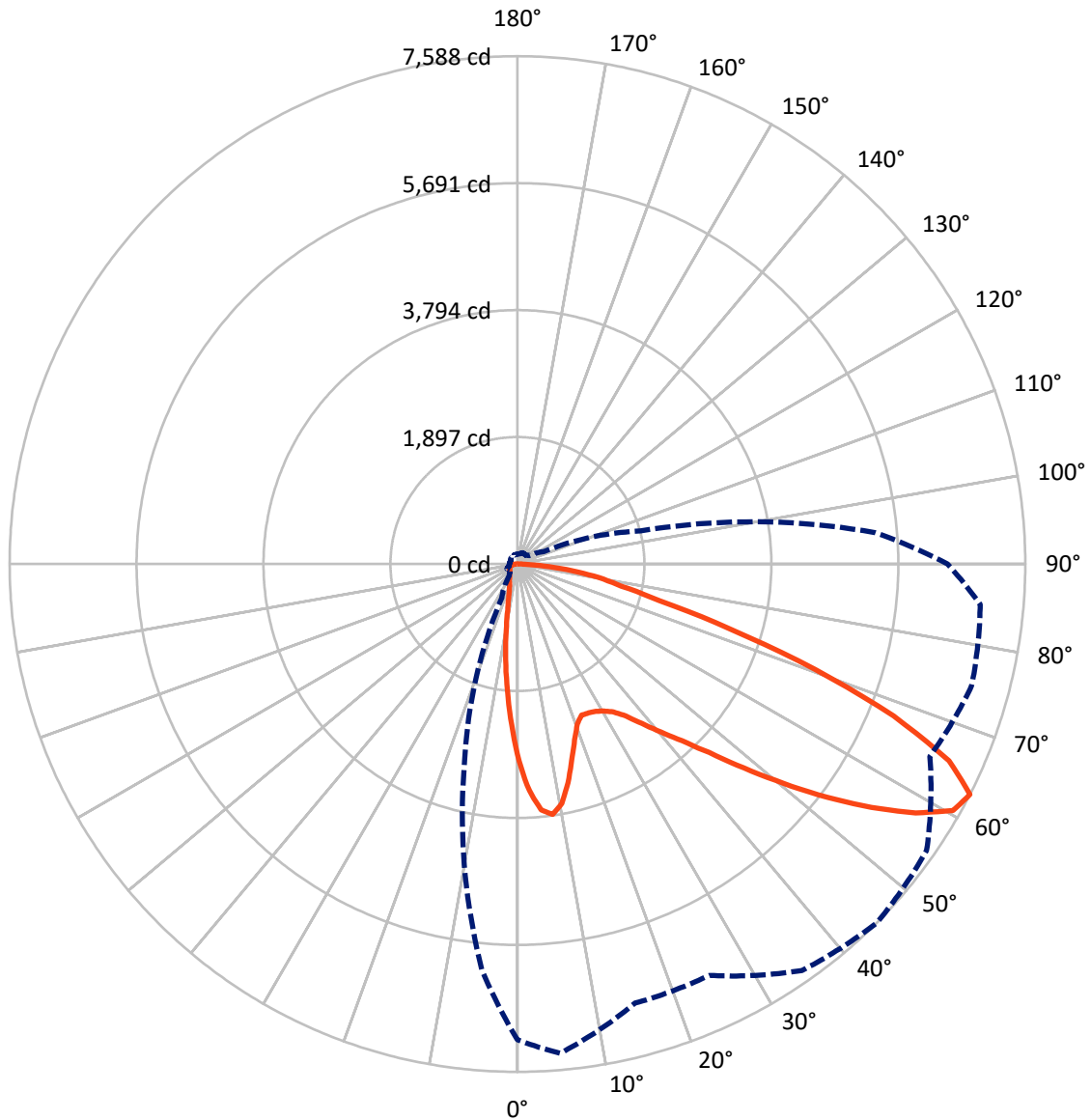
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.7 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 | 1445.4 | 0.0 | 1445.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 7288.6 | 0.0 | 7288.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 8734.0 | 0.0 | 8734.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 214.8 | 2.5 |
| 10°-20° | 393.9 | 4.5 |
| 20°-30° | 574.3 | 6.6 |
| 30°-40° | 884.5 | 10.1 |
| 40°-50° | 1301.8 | 14.9 |
| 50°-60° | 1909.4 | 21.9 |
| 60°-70° | 2134.4 | 24.4 |
| 70°-80° | 1045.0 | 12.0 |
| 80°-90° | 275.9 | 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° | 8734.0 | 100.0 |
| 0°-180° | 8734.0 | 100.0 |



REPORT NUMBER: P193830

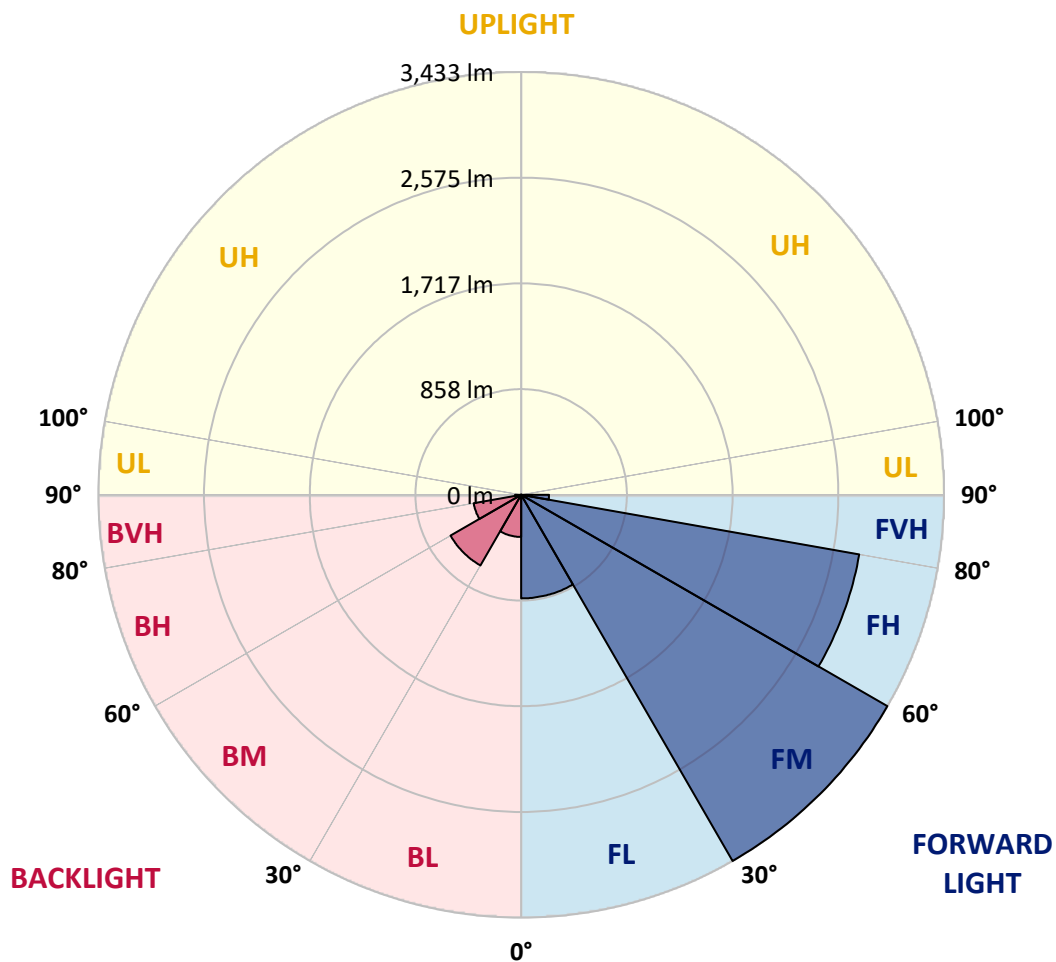
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 841.1 | 9.6 | | | |
| FM | (30°-60°) | 3433.4 | 39.3 | | | |
| FH | (60°-80°) | 2787.6 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 226.6 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 341.9 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 662.3 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 391.8 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 49.3 | 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





REPORT NUMBER: P193830

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 |
| 2.5° | 3066.0 | 3115.0 | 3210.6 | 3282.1 | 3369.0 | 3389.2 | 3417.0 | 3389.6 | 3341.2 | 3276.8 | 3255.7 |
| 5° | 2883.1 | 2987.8 | 3219.7 | 3423.7 | 3605.2 | 3689.7 | 3713.2 | 3643.6 | 3503.0 | 3318.1 | 3205.3 |
| 7.5° | 2589.8 | 2738.6 | 3052.6 | 3353.2 | 3620.6 | 3778.5 | 3774.7 | 3612.9 | 3354.1 | 3053.1 | 2872.1 |
| 10° | 2336.7 | 2506.7 | 2866.8 | 3202.9 | 3486.6 | 3639.8 | 3580.7 | 3373.8 | 3065.1 | 2718.4 | 2522.1 |
| 12.5° | 2195.1 | 2361.7 | 2727.1 | 3064.6 | 3301.8 | 3354.6 | 3309.5 | 3106.9 | 2815.9 | 2465.4 | 2293.5 |
| 15° | 2170.6 | 2353.5 | 2671.4 | 2946.0 | 3079.0 | 3032.9 | 2979.1 | 2888.4 | 2682.9 | 2383.8 | 2204.7 |
| 17.5° | 2276.7 | 2478.4 | 2735.2 | 2863.4 | 2840.9 | 2760.7 | 2745.3 | 2755.4 | 2706.0 | 2474.5 | 2268.1 |
| 20° | 2480.3 | 2722.3 | 2887.4 | 2824.5 | 2659.9 | 2549.4 | 2553.3 | 2707.4 | 2853.8 | 2704.5 | 2468.8 |
| 22.5° | 2766.0 | 3042.0 | 3106.9 | 2845.2 | 2583.5 | 2452.5 | 2484.1 | 2733.8 | 3089.6 | 3040.6 | 2739.6 |
| 25° | 3135.7 | 3387.2 | 3340.7 | 2920.1 | 2591.2 | 2464.5 | 2489.9 | 2825.0 | 3368.0 | 3376.7 | 3074.7 |
| 27.5° | 3493.8 | 3727.2 | 3537.0 | 3019.5 | 2622.9 | 2492.8 | 2526.4 | 2968.6 | 3634.0 | 3741.6 | 3457.8 |
| 30° | 3773.3 | 3935.5 | 3614.8 | 3110.2 | 2685.3 | 2548.0 | 2589.8 | 3104.9 | 3755.0 | 3987.9 | 3752.6 |
| 32.5° | 4004.7 | 4121.3 | 3738.7 | 3222.6 | 2800.1 | 2634.9 | 2708.4 | 3270.6 | 3929.3 | 4222.2 | 4041.2 |
| 35° | 4300.4 | 4333.6 | 3892.8 | 3347.9 | 2977.2 | 2786.1 | 2877.4 | 3432.9 | 4095.4 | 4458.9 | 4325.4 |
| 37.5° | 4647.1 | 4604.3 | 4038.3 | 3519.3 | 3206.2 | 3022.8 | 3098.2 | 3611.0 | 4232.3 | 4727.3 | 4615.9 |
| 40° | 4989.9 | 4887.1 | 4220.7 | 3785.3 | 3540.4 | 3301.8 | 3391.1 | 3801.1 | 4360.0 | 4996.1 | 4899.6 |
| 42.5° | 5281.3 | 5129.1 | 4400.8 | 4077.7 | 3851.5 | 3609.5 | 3716.1 | 3992.7 | 4481.9 | 5225.6 | 5145.9 |
| 45° | 5496.9 | 5307.7 | 4572.2 | 4358.5 | 4280.3 | 4018.6 | 4069.0 | 4212.1 | 4614.0 | 5417.2 | 5348.5 |
| 47.5° | 5689.4 | 5487.3 | 4766.1 | 4641.8 | 4655.2 | 4550.6 | 4469.4 | 4467.5 | 4769.5 | 5573.7 | 5540.1 |
| 50° | 5947.2 | 5736.5 | 4974.5 | 4933.7 | 5217.9 | 5148.3 | 4969.2 | 4765.7 | 4966.4 | 5751.4 | 5747.5 |
| 52.5° | 6302.5 | 6131.1 | 5229.0 | 5248.2 | 5743.2 | 5788.8 | 5567.0 | 5123.8 | 5274.6 | 6077.4 | 6054.3 |
| 55° | 6722.6 | 6622.8 | 5575.6 | 5609.7 | 6387.5 | 6420.2 | 6199.8 | 5571.8 | 5727.8 | 6549.3 | 6485.5 |
| 57.5° | 7050.6 | 7029.4 | 5955.9 | 6043.7 | 6868.6 | 7015.5 | 6812.9 | 6090.3 | 6238.7 | 6946.9 | 6786.5 |
| 60° | 7181.2 | 7283.4 | 6360.6 | 6481.6 | 7313.7 | 7476.4 | 7298.8 | 6546.0 | 6691.4 | 7111.5 | 6765.8 |
| 62.5° | 7110.6 | 7339.1 | 6791.8 | 6781.7 | 7413.0 | 7588.3 | 7463.5 | 6799.5 | 7027.0 | 6941.6 | 6423.5 |
| 65° | 6784.6 | 7138.9 | 7041.9 | 6704.4 | 7073.1 | 7087.5 | 7047.2 | 6686.1 | 7106.3 | 6404.3 | 5761.9 |
| 67.5° | 6074.5 | 6584.4 | 6712.6 | 6041.8 | 6156.1 | 6062.5 | 5994.8 | 6065.8 | 6693.3 | 5599.2 | 4842.5 |
| 70° | 4947.6 | 5714.9 | 5776.3 | 4832.4 | 4780.6 | 4717.7 | 4582.7 | 4973.1 | 5878.6 | 4589.0 | 3842.4 |
| 72.5° | 3637.9 | 4444.5 | 4633.2 | 3544.2 | 3304.2 | 3317.1 | 3210.6 | 3747.8 | 4779.6 | 3408.8 | 2868.7 |
| 75° | 2488.9 | 3218.2 | 3624.9 | 2473.1 | 2185.0 | 2190.3 | 2176.9 | 2655.5 | 3806.9 | 2371.3 | 2146.6 |
| 77.5° | 1818.2 | 2299.3 | 2733.8 | 1662.7 | 1614.2 | 1584.4 | 1577.2 | 1858.1 | 2918.6 | 1721.7 | 1667.0 |
| 80° | 1459.1 | 1698.7 | 1836.5 | 1152.3 | 1239.2 | 1236.8 | 1196.9 | 1277.6 | 1906.1 | 1259.4 | 1246.9 |
| 82.5° | 1012.1 | 1305.4 | 1487.9 | 903.1 | 836.4 | 822.4 | 832.0 | 951.6 | 1347.2 | 860.9 | 818.6 |
| 85° | 533.9 | 867.1 | 1473.5 | 800.4 | 496.4 | 396.1 | 492.6 | 779.2 | 1167.2 | 456.1 | 399.5 |
| 87.5° | 68.2 | 250.6 | 975.6 | 319.3 | 195.9 | 105.6 | 233.8 | 438.8 | 749.5 | 93.1 | 81.1 |
| 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: P193830

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 |
| 2.5° | 3201.4 | 3137.6 | 3054.0 | 2976.7 | 2896.6 | 2816.9 | 2712.7 | 2647.4 | 2602.2 | 2593.6 | 2574.4 |
| 5° | 3123.7 | 2911.4 | 2751.1 | 2612.3 | 2486.5 | 2308.9 | 2210.5 | 2128.9 | 2085.2 | 2080.8 | 2070.3 |
| 7.5° | 2765.0 | 2472.1 | 2255.6 | 2059.2 | 1881.1 | 1737.6 | 1579.1 | 1505.2 | 1474.9 | 1482.1 | 1489.3 |
| 10° | 2392.0 | 2064.5 | 1815.8 | 1615.1 | 1458.1 | 1337.1 | 1209.9 | 1124.0 | 1064.4 | 1052.4 | 1050.0 |
| 12.5° | 2119.2 | 1760.1 | 1518.6 | 1377.0 | 1255.5 | 1141.7 | 1006.8 | 905.5 | 828.2 | 801.8 | 784.0 |
| 15° | 2004.0 | 1611.3 | 1358.3 | 1205.6 | 1071.6 | 927.1 | 801.8 | 695.7 | 624.6 | 601.6 | 588.6 |
| 17.5° | 2028.5 | 1570.0 | 1247.8 | 1052.4 | 881.0 | 730.3 | 572.3 | 481.6 | 438.8 | 427.8 | 427.8 |
| 20° | 2157.2 | 1562.3 | 1156.6 | 911.3 | 697.6 | 522.9 | 393.2 | 341.4 | 327.4 | 326.0 | 329.8 |
| 22.5° | 2337.7 | 1589.2 | 1088.4 | 788.8 | 542.1 | 381.7 | 306.3 | 287.1 | 280.9 | 282.3 | 286.6 |
| 25° | 2606.6 | 1679.9 | 1039.0 | 679.8 | 425.4 | 312.6 | 273.2 | 261.7 | 258.8 | 262.6 | 267.9 |
| 27.5° | 2925.4 | 1770.7 | 1008.3 | 597.7 | 359.1 | 285.7 | 259.7 | 247.7 | 249.7 | 254.5 | 259.3 |
| 30° | 3205.3 | 1845.1 | 959.8 | 539.2 | 338.5 | 287.1 | 259.7 | 243.4 | 241.5 | 242.5 | 243.9 |
| 32.5° | 3456.4 | 1895.5 | 903.1 | 483.5 | 291.9 | 254.9 | 242.5 | 240.1 | 229.5 | 225.7 | 226.1 |
| 35° | 3672.9 | 1895.5 | 869.0 | 450.8 | 261.7 | 226.1 | 206.0 | 194.0 | 188.7 | 189.2 | 194.4 |
| 37.5° | 3881.8 | 1857.6 | 852.2 | 432.6 | 245.3 | 215.1 | 197.3 | 186.8 | 179.6 | 178.1 | 179.1 |
| 40° | 4066.1 | 1802.4 | 833.0 | 424.9 | 232.9 | 208.4 | 191.6 | 182.9 | 175.2 | 172.8 | 173.3 |
| 42.5° | 4214.0 | 1757.7 | 811.9 | 414.8 | 225.2 | 203.6 | 187.7 | 180.0 | 171.4 | 169.0 | 168.5 |
| 45° | 4373.9 | 1742.8 | 784.0 | 394.7 | 229.0 | 204.1 | 186.8 | 178.6 | 170.0 | 167.1 | 166.1 |
| 47.5° | 4584.7 | 1789.4 | 755.2 | 370.7 | 237.2 | 206.5 | 188.2 | 178.6 | 169.5 | 167.1 | 166.1 |
| 50° | 4850.2 | 1898.9 | 718.7 | 335.6 | 229.0 | 213.2 | 187.7 | 177.2 | 169.5 | 167.1 | 165.2 |
| 52.5° | 5191.1 | 2046.8 | 670.7 | 295.3 | 224.2 | 229.5 | 186.8 | 174.3 | 167.1 | 163.7 | 160.4 |
| 55° | 5605.4 | 2167.7 | 613.6 | 262.1 | 213.2 | 225.2 | 185.3 | 170.9 | 163.2 | 158.4 | 155.6 |
| 57.5° | 5908.8 | 2211.4 | 540.1 | 240.5 | 197.8 | 218.0 | 183.4 | 166.6 | 158.4 | 154.6 | 150.8 |
| 60° | 5848.8 | 2126.9 | 478.2 | 227.1 | 188.7 | 196.8 | 182.0 | 162.8 | 154.1 | 151.2 | 147.9 |
| 62.5° | 5368.2 | 1906.1 | 438.3 | 220.9 | 182.9 | 179.6 | 183.4 | 158.9 | 150.3 | 147.4 | 146.4 |
| 65° | 4647.6 | 1580.1 | 422.5 | 219.4 | 178.1 | 169.5 | 170.4 | 154.6 | 146.0 | 143.6 | 142.6 |
| 67.5° | 3833.8 | 1275.2 | 408.6 | 224.2 | 171.9 | 162.3 | 157.5 | 148.8 | 141.6 | 139.2 | 137.3 |
| 70° | 3023.3 | 1060.6 | 402.3 | 221.3 | 164.2 | 155.1 | 149.8 | 142.6 | 136.4 | 134.0 | 132.5 |
| 72.5° | 2434.7 | 895.9 | 399.0 | 218.5 | 154.1 | 145.5 | 140.7 | 134.4 | 127.7 | 126.8 | 125.3 |
| 75° | 2060.2 | 704.3 | 365.4 | 209.3 | 142.6 | 134.0 | 130.6 | 124.8 | 118.1 | 118.1 | 117.1 |
| 77.5° | 1589.2 | 509.4 | 303.9 | 185.3 | 130.6 | 121.0 | 118.1 | 113.8 | 106.1 | 107.5 | 107.1 |
| 80° | 1173.9 | 332.2 | 237.7 | 153.6 | 115.7 | 106.6 | 105.1 | 100.8 | 92.7 | 94.6 | 94.6 |
| 82.5° | 804.2 | 218.0 | 170.9 | 125.8 | 98.9 | 90.3 | 90.3 | 85.9 | 76.8 | 77.8 | 80.7 |
| 85° | 403.8 | 149.8 | 127.7 | 97.5 | 76.8 | 72.5 | 72.5 | 69.1 | 60.0 | 60.5 | 64.3 |
| 87.5° | 122.9 | 90.3 | 84.5 | 69.6 | 55.2 | 54.3 | 51.9 | 49.5 | 43.7 | 43.2 | 45.6 |
| 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: P193830

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 | 2950.8 |
| 2.5° | 2545.1 | 2517.7 | 2484.6 | 2411.6 | 2387.2 | 2385.7 | 2407.8 | 2384.8 | 2428.9 | 2410.2 | 2430.8 |
| 5° | 2052.5 | 2025.6 | 1988.7 | 1895.5 | 1838.9 | 1800.4 | 1782.2 | 1728.4 | 1767.3 | 1739.0 | 1762.5 |
| 7.5° | 1509.5 | 1515.7 | 1491.3 | 1436.5 | 1313.1 | 1251.2 | 1214.7 | 1182.1 | 1210.4 | 1207.5 | 1252.6 |
| 10° | 1061.1 | 1077.9 | 1060.6 | 1005.4 | 905.5 | 871.4 | 878.1 | 891.1 | 928.1 | 947.3 | 1016.9 |
| 12.5° | 763.9 | 762.9 | 751.9 | 702.4 | 636.6 | 640.5 | 667.8 | 690.4 | 724.5 | 744.7 | 815.7 |
| 15° | 570.4 | 561.7 | 556.9 | 516.6 | 479.2 | 487.3 | 500.8 | 503.2 | 524.8 | 536.8 | 594.4 |
| 17.5° | 431.1 | 435.5 | 440.7 | 411.9 | 383.6 | 378.3 | 367.8 | 354.8 | 361.1 | 363.5 | 392.3 |
| 20° | 342.3 | 359.6 | 372.6 | 352.4 | 323.6 | 308.2 | 294.8 | 286.2 | 286.2 | 285.7 | 293.8 |
| 22.5° | 299.1 | 311.6 | 325.5 | 311.6 | 285.7 | 272.2 | 264.5 | 257.8 | 256.9 | 256.9 | 264.5 |
| 25° | 275.6 | 284.7 | 298.2 | 288.6 | 269.3 | 259.3 | 252.1 | 243.4 | 240.1 | 239.1 | 244.4 |
| 27.5° | 264.1 | 267.9 | 274.6 | 266.0 | 249.7 | 244.9 | 242.9 | 235.3 | 230.9 | 228.5 | 233.8 |
| 30° | 244.4 | 243.4 | 243.9 | 235.3 | 222.3 | 221.8 | 225.2 | 226.6 | 225.2 | 224.7 | 232.9 |
| 32.5° | 226.1 | 224.2 | 223.7 | 216.1 | 204.1 | 201.2 | 204.1 | 206.9 | 210.3 | 215.1 | 224.7 |
| 35° | 203.1 | 207.9 | 210.8 | 204.1 | 189.6 | 181.0 | 177.6 | 172.4 | 169.5 | 169.5 | 180.5 |
| 37.5° | 184.8 | 195.9 | 200.2 | 194.0 | 178.1 | 166.1 | 160.4 | 159.4 | 159.9 | 161.8 | 172.4 |
| 40° | 178.6 | 186.8 | 190.6 | 184.4 | 168.5 | 157.5 | 154.1 | 153.2 | 154.1 | 157.0 | 167.6 |
| 42.5° | 174.8 | 180.5 | 180.0 | 172.4 | 159.4 | 151.7 | 149.8 | 148.8 | 149.8 | 152.7 | 164.2 |
| 45° | 171.4 | 175.2 | 171.4 | 162.3 | 150.3 | 146.4 | 146.9 | 146.4 | 147.4 | 150.3 | 161.3 |
| 47.5° | 168.5 | 170.0 | 165.2 | 156.0 | 143.6 | 142.6 | 144.5 | 146.0 | 146.9 | 149.3 | 160.8 |
| 50° | 164.2 | 164.2 | 159.9 | 150.3 | 137.8 | 138.3 | 140.7 | 144.0 | 144.5 | 147.4 | 156.5 |
| 52.5° | 158.9 | 158.4 | 155.6 | 146.4 | 133.0 | 134.4 | 134.4 | 138.3 | 139.2 | 142.6 | 152.2 |
| 55° | 154.6 | 153.6 | 152.2 | 143.6 | 128.7 | 131.1 | 129.6 | 131.1 | 133.5 | 136.8 | 147.4 |
| 57.5° | 150.8 | 148.8 | 148.8 | 141.2 | 125.3 | 126.3 | 122.9 | 124.8 | 127.7 | 130.6 | 141.6 |
| 60° | 146.9 | 145.0 | 146.0 | 137.8 | 120.0 | 119.1 | 117.6 | 121.5 | 122.4 | 125.8 | 136.8 |
| 62.5° | 142.6 | 141.2 | 141.6 | 134.0 | 116.2 | 113.8 | 113.8 | 117.1 | 117.6 | 122.4 | 133.0 |
| 65° | 139.2 | 137.3 | 136.8 | 130.1 | 111.9 | 109.0 | 110.4 | 111.9 | 112.8 | 117.6 | 127.7 |
| 67.5° | 135.9 | 132.0 | 132.0 | 126.8 | 107.1 | 104.2 | 107.1 | 106.6 | 108.0 | 112.3 | 120.5 |
| 70° | 131.6 | 126.3 | 126.8 | 124.4 | 102.3 | 98.9 | 101.3 | 100.8 | 101.8 | 104.7 | 112.8 |
| 72.5° | 124.8 | 120.5 | 121.5 | 120.5 | 97.5 | 92.7 | 93.6 | 93.6 | 93.6 | 96.0 | 104.7 |
| 75° | 116.2 | 112.8 | 115.7 | 118.1 | 91.7 | 85.0 | 85.9 | 85.9 | 84.5 | 85.9 | 96.5 |
| 77.5° | 105.6 | 103.7 | 113.3 | 109.9 | 85.0 | 76.8 | 76.8 | 75.9 | 73.0 | 74.9 | 86.4 |
| 80° | 94.1 | 92.7 | 104.7 | 92.2 | 77.3 | 66.7 | 65.8 | 63.4 | 60.5 | 61.9 | 73.5 |
| 82.5° | 82.1 | 80.7 | 87.9 | 70.6 | 66.7 | 55.2 | 52.8 | 48.5 | 45.6 | 47.1 | 57.6 |
| 85° | 67.2 | 67.2 | 67.7 | 53.3 | 50.9 | 42.3 | 39.4 | 33.6 | 30.2 | 31.2 | 41.3 |
| 87.5° | 48.0 | 49.5 | 45.6 | 36.5 | 30.2 | 23.5 | 21.6 | 18.2 | 15.4 | 17.8 | 21.6 |
| 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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| 35° | 193.5 | 211.3 | 239.1 | 416.7 | 812.4 | 2007.4 | 3736.3 | 4300.4 |
| 37.5° | 184.4 | 202.1 | 222.3 | 411.0 | 823.4 | 2062.6 | 4023.4 | 4647.1 |
| 40° | 178.6 | 194.9 | 212.2 | 407.6 | 834.0 | 2113.0 | 4304.8 | 4989.9 |
| 42.5° | 174.8 | 189.6 | 211.3 | 396.1 | 839.2 | 2158.1 | 4536.2 | 5281.3 |
| 45° | 174.3 | 189.6 | 215.1 | 384.6 | 847.4 | 2206.6 | 4730.1 | 5496.9 |
| 47.5° | 174.8 | 195.9 | 207.9 | 370.7 | 847.4 | 2287.8 | 4957.7 | 5689.4 |
| 50° | 172.8 | 206.5 | 200.2 | 351.0 | 827.7 | 2441.4 | 5269.8 | 5947.2 |
| 52.5° | 171.9 | 205.0 | 185.3 | 320.7 | 793.6 | 2685.3 | 5669.7 | 6302.5 |
| 55° | 169.5 | 197.8 | 174.8 | 275.6 | 753.8 | 2951.3 | 6098.0 | 6722.6 |
| 57.5° | 167.1 | 175.2 | 169.0 | 236.2 | 692.3 | 3138.5 | 6392.8 | 7050.6 |
| 60° | 187.2 | 153.2 | 164.2 | 217.0 | 610.2 | 3189.9 | 6381.3 | 7181.2 |
| 62.5° | 173.3 | 143.6 | 158.0 | 212.7 | 552.6 | 3045.9 | 6086.5 | 7110.6 |
| 65° | 135.9 | 137.3 | 151.7 | 225.2 | 537.3 | 2664.2 | 5564.1 | 6784.6 |
| 67.5° | 124.4 | 131.1 | 145.5 | 241.0 | 538.7 | 2133.2 | 4783.4 | 6074.5 |
| 70° | 117.1 | 124.4 | 138.3 | 249.2 | 542.5 | 1590.2 | 3781.9 | 4947.6 |
| 72.5° | 109.0 | 115.2 | 130.1 | 250.6 | 517.6 | 1155.2 | 2914.8 | 3637.9 |
| 75° | 99.4 | 105.1 | 118.6 | 218.5 | 428.7 | 801.3 | 2229.7 | 2488.9 |
| 77.5° | 88.3 | 92.7 | 104.2 | 168.5 | 318.3 | 512.8 | 1673.7 | 1818.2 |
| 80° | 75.4 | 77.8 | 87.4 | 123.4 | 218.0 | 320.7 | 1324.2 | 1459.1 |
| 82.5° | 60.5 | 61.5 | 67.7 | 92.7 | 141.6 | 206.0 | 886.8 | 1012.1 |
| 85° | 42.7 | 42.7 | 46.6 | 67.2 | 96.5 | 130.6 | 481.6 | 533.9 |
| 87.5° | 20.2 | 20.6 | 20.6 | 37.0 | 50.4 | 66.3 | 110.9 | 68.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)