

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: P269232

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17279 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 225
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

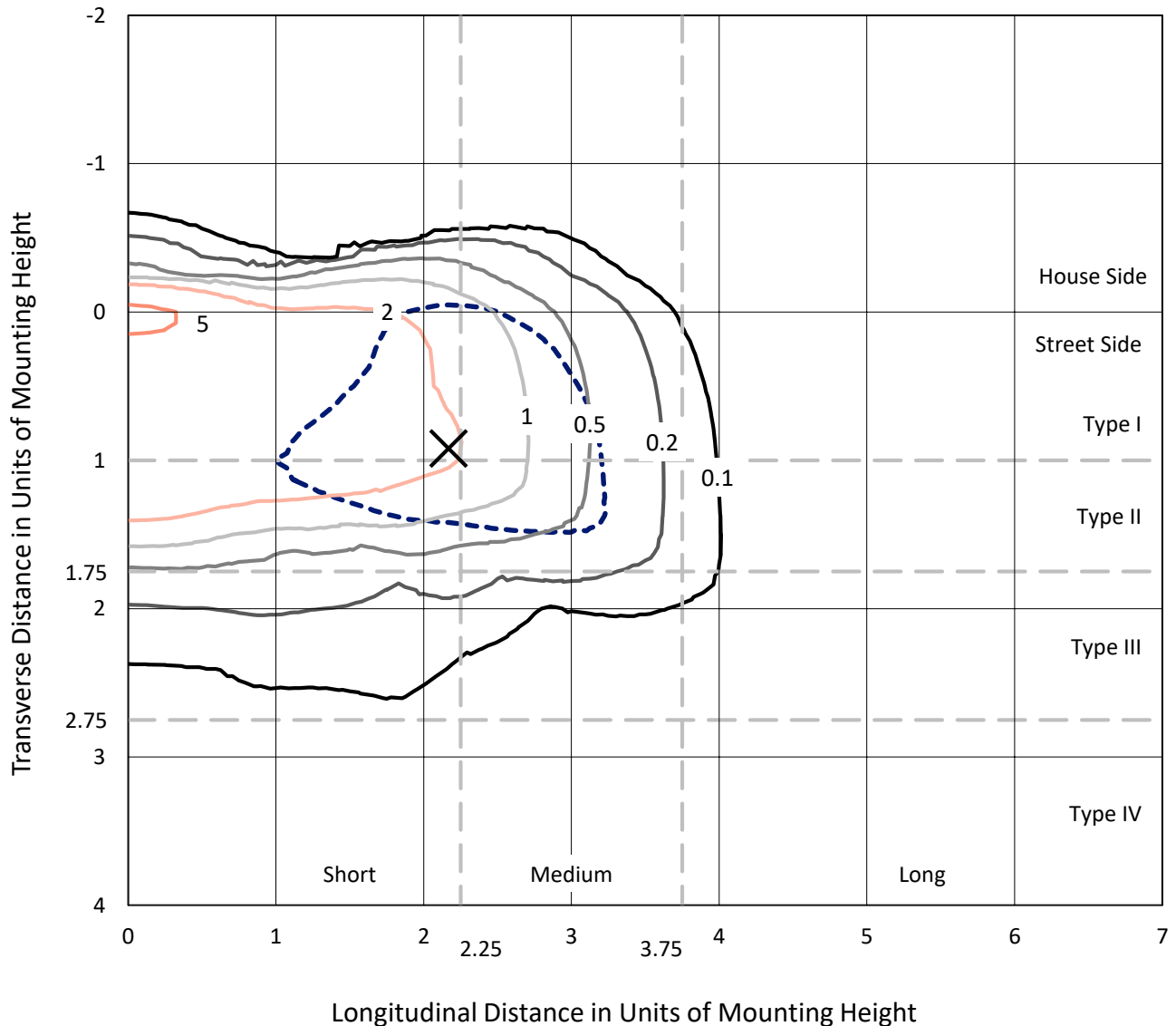


REPORT NUMBER: P269232

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

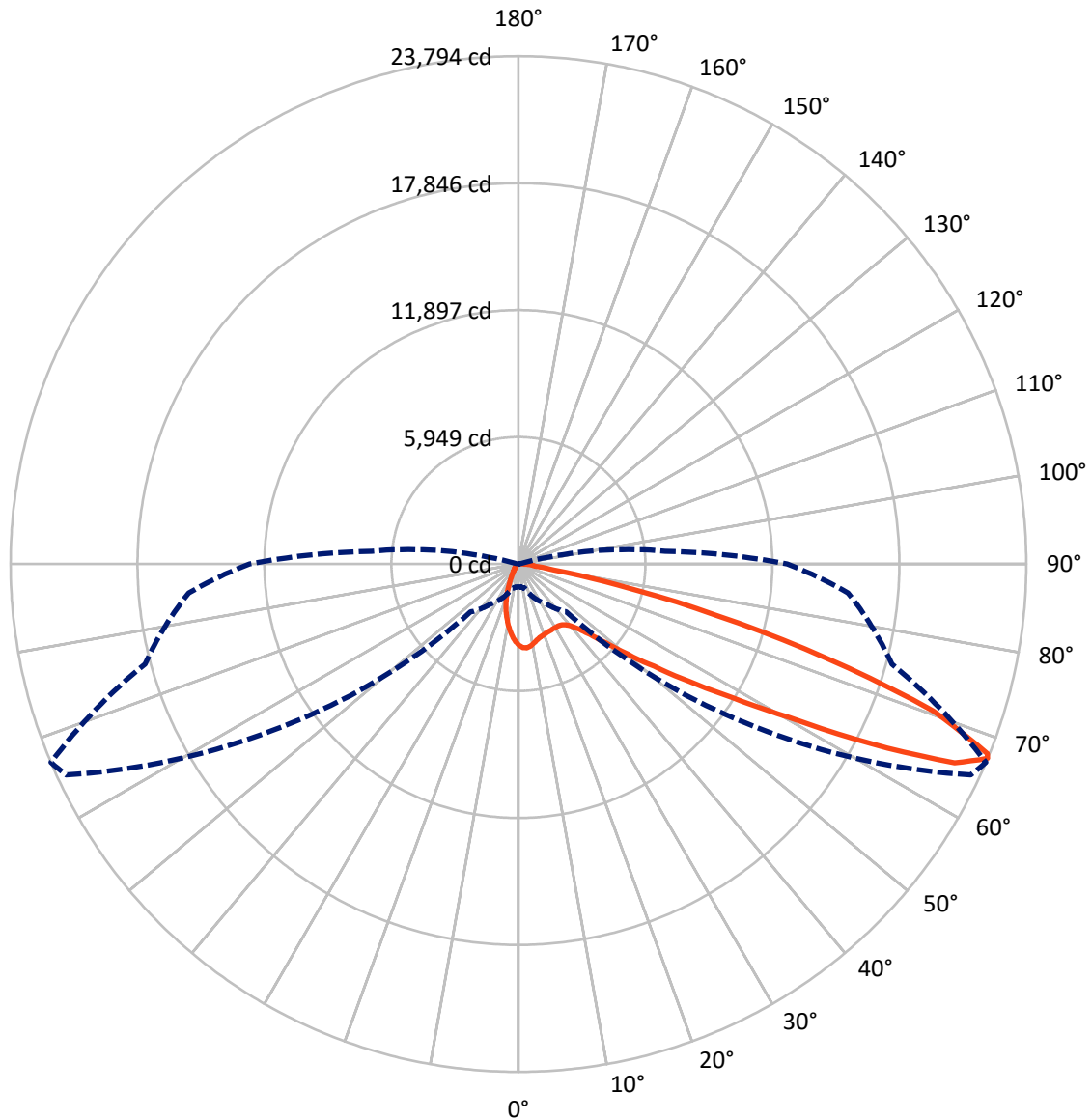
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269232
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269232

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-HSS

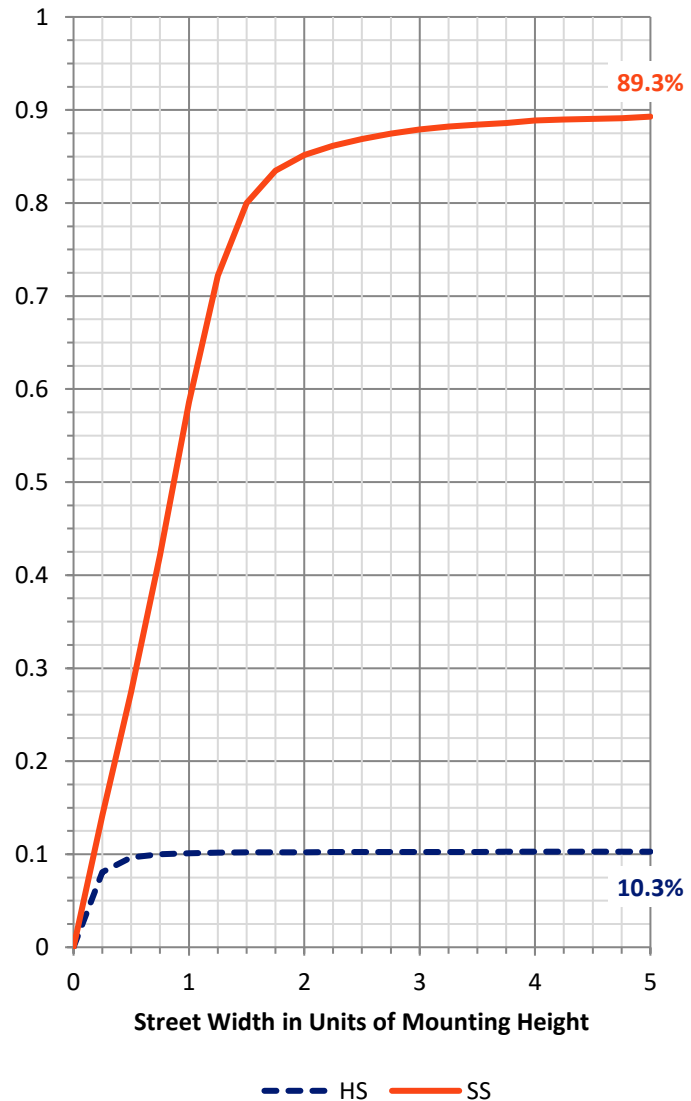
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1794.1 | 0.0 | 1794.1 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 15484.9 | 0.0 | 15484.9 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 17279.0 | 0.0 | 17279.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.1 | 1.8 |
| 10°-20° | 659.9 | 3.8 |
| 20°-30° | 959.5 | 5.6 |
| 30°-40° | 1496.8 | 8.7 |
| 40°-50° | 2651.6 | 15.3 |
| 50°-60° | 4195.9 | 24.3 |
| 60°-70° | 4805.8 | 27.8 |
| 70°-80° | 1993.4 | 11.5 |
| 80°-90° | 205.9 | 1.2 |
| 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° | 17279.0 | 100.0 |
| 0°-180° | 17279.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P269232

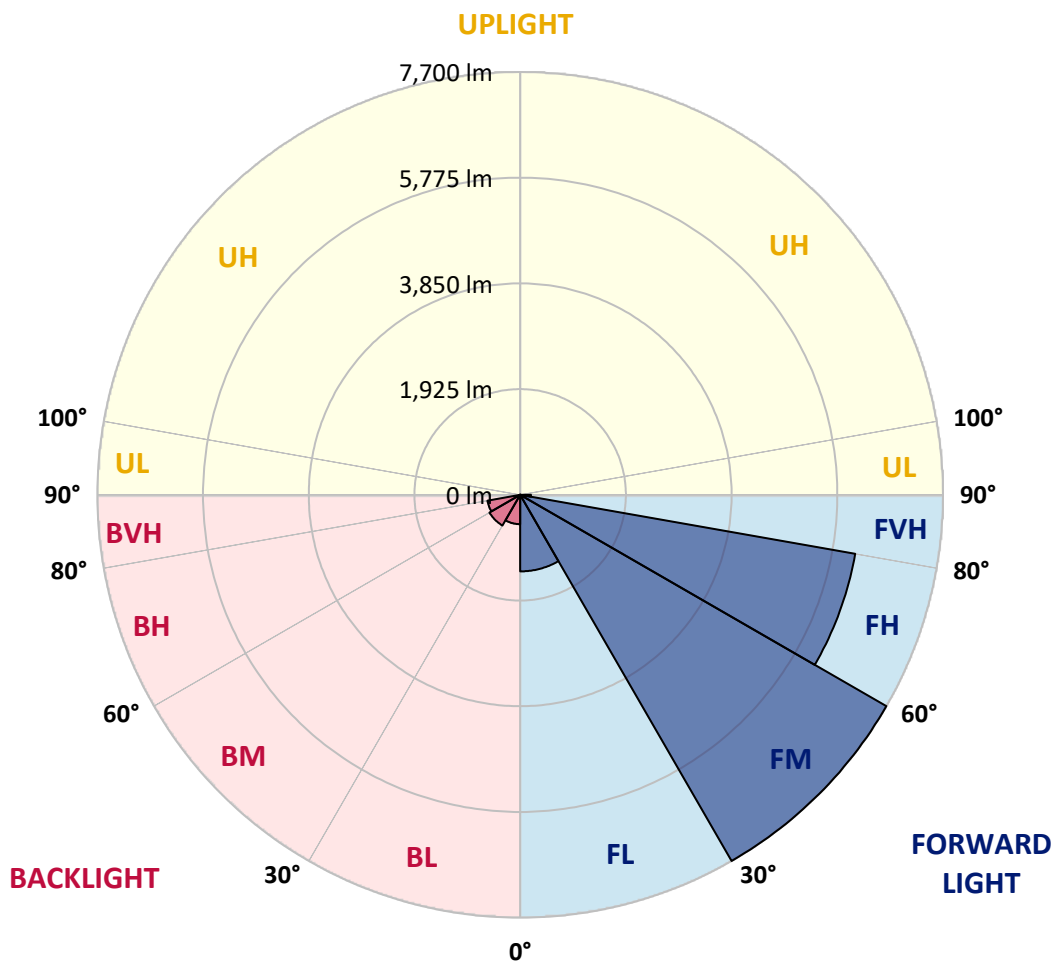
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1394.2 | 8.1 | | | |
| FM (30°-60°) | 7699.6 | 44.6 | | | |
| FH (60°-80°) | 6194.6 | 35.9 | | | G3/7500 |
| FVH (80°-90°) | 196.6 | 1.1 | | | G2/225 |
| BL (0°-30°) | 535.4 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 644.8 | 3.7 | B1/1000 | | |
| BH (60°-80°) | 604.7 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.3 | 0.1 | | | G0/10 |
| 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: P269232

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 |
| 2.5° | 3939.6 | 3947.7 | 3946.8 | 3952.7 | 3966.8 | 3967.9 | 3953.8 | 3926.5 | 3920.6 | 3885.2 | 3823.7 |
| 5° | 3633.3 | 3656.5 | 3670.6 | 3728.1 | 3792.6 | 3870.1 | 3928.6 | 3949.8 | 3946.8 | 3921.6 | 3828.8 |
| 7.5° | 3283.6 | 3306.8 | 3322.9 | 3390.5 | 3476.0 | 3609.1 | 3761.3 | 3886.2 | 3897.3 | 3924.5 | 3824.8 |
| 10° | 3050.7 | 3054.7 | 3077.0 | 3141.5 | 3231.2 | 3367.1 | 3548.7 | 3767.3 | 3800.5 | 3900.4 | 3814.7 |
| 12.5° | 2859.2 | 2862.3 | 2891.6 | 2961.1 | 3056.8 | 3193.8 | 3384.4 | 3637.2 | 3688.7 | 3870.1 | 3812.6 |
| 15° | 2723.2 | 2734.4 | 2760.5 | 2833.1 | 2934.9 | 3070.9 | 3266.3 | 3541.6 | 3603.0 | 3858.9 | 3830.8 |
| 17.5° | 2677.8 | 2690.0 | 2698.0 | 2750.4 | 2843.1 | 2976.2 | 3176.8 | 3479.0 | 3548.7 | 3865.0 | 3866.0 |
| 20° | 2725.2 | 2734.4 | 2716.1 | 2729.2 | 2786.7 | 2905.6 | 3101.0 | 3425.6 | 3508.3 | 3872.1 | 3911.4 |
| 22.5° | 2901.5 | 2905.6 | 2856.3 | 2798.8 | 2788.7 | 2854.3 | 3041.8 | 3383.3 | 3471.9 | 3891.3 | 3964.8 |
| 25° | 3204.0 | 3196.9 | 3116.2 | 2992.3 | 2875.4 | 2845.1 | 3006.4 | 3357.1 | 3453.9 | 3911.4 | 4020.3 |
| 27.5° | 3568.7 | 3578.8 | 3467.9 | 3287.5 | 3064.8 | 2905.6 | 3001.3 | 3346.0 | 3445.8 | 3925.6 | 4068.7 |
| 30° | 4012.2 | 4026.4 | 3899.4 | 3672.6 | 3353.2 | 3054.7 | 3047.7 | 3344.0 | 3440.8 | 3916.5 | 4072.6 |
| 32.5° | 4464.8 | 4481.9 | 4382.1 | 4148.4 | 3738.0 | 3304.8 | 3152.5 | 3366.2 | 3450.8 | 3885.2 | 4049.5 |
| 35° | 4938.4 | 4962.6 | 4896.1 | 4695.5 | 4260.1 | 3665.5 | 3336.9 | 3433.7 | 3498.2 | 3882.3 | 4026.4 |
| 37.5° | 5592.5 | 5614.6 | 5489.7 | 5277.1 | 4892.1 | 4149.4 | 3633.3 | 3560.7 | 3610.1 | 3930.5 | 4032.4 |
| 40° | 6569.1 | 6566.2 | 6243.6 | 5918.0 | 5586.5 | 4764.2 | 4049.5 | 3790.5 | 3815.7 | 4076.7 | 4107.0 |
| 42.5° | 7633.3 | 7628.3 | 7151.6 | 6656.8 | 6357.5 | 5521.0 | 4596.7 | 4187.5 | 4170.4 | 4345.8 | 4300.5 |
| 45° | 8453.8 | 8452.8 | 8063.7 | 7506.3 | 7285.8 | 6389.7 | 5304.3 | 4739.8 | 4713.6 | 4783.3 | 4657.3 |
| 47.5° | 8803.5 | 8809.6 | 8614.0 | 8221.9 | 8314.7 | 7564.8 | 6196.1 | 5540.0 | 5500.9 | 5472.6 | 5281.0 |
| 50° | 8531.5 | 8543.5 | 8559.6 | 8483.1 | 9069.6 | 9144.1 | 7392.5 | 6667.8 | 6648.7 | 6522.8 | 6223.5 |
| 52.5° | 7642.5 | 7704.0 | 7893.4 | 8136.3 | 9331.7 | 10659.9 | 9268.2 | 8068.8 | 7966.0 | 7832.0 | 7502.4 |
| 55° | 6144.9 | 6212.4 | 6572.1 | 7161.7 | 8941.5 | 11655.7 | 11896.6 | 9874.9 | 9703.5 | 9303.3 | 8827.7 |
| 57.5° | 4066.6 | 4171.5 | 4693.6 | 5443.4 | 7808.7 | 11815.9 | 14518.9 | 12381.3 | 11784.8 | 10689.2 | 10153.1 |
| 60° | 2240.5 | 2341.3 | 2907.6 | 3586.9 | 5639.9 | 11023.8 | 16282.7 | 15644.7 | 14590.5 | 12238.1 | 11762.5 |
| 62.5° | 1379.7 | 1434.1 | 1852.5 | 2484.4 | 3382.3 | 8700.8 | 16647.6 | 19745.6 | 18525.1 | 14232.7 | 13706.7 |
| 65° | 1098.5 | 1121.8 | 1326.3 | 2030.8 | 2424.9 | 5175.2 | 15469.4 | 22871.9 | 22464.9 | 16647.6 | 15447.3 |
| 67° | 1066.3 | 1075.5 | 1172.1 | 1743.6 | 2285.7 | 3172.8 | 12959.8 | 23380.9 | 23794.1 | 18108.9 | 15501.6 |
| 67.5° | 1073.4 | 1083.4 | 1175.2 | 1663.9 | 2281.8 | 2915.7 | 12095.0 | 23180.4 | 23702.5 | 18224.9 | 15260.8 |
| 70° | 1035.0 | 1066.3 | 1345.5 | 1662.9 | 2169.9 | 2422.9 | 7243.4 | 20084.2 | 20627.5 | 16933.8 | 12948.8 |
| 72.5° | 366.9 | 368.8 | 581.6 | 1345.5 | 2359.4 | 2449.0 | 3637.2 | 14723.6 | 15125.8 | 12953.7 | 9335.6 |
| 75° | 217.7 | 185.4 | 193.6 | 382.9 | 2254.6 | 2378.5 | 2098.4 | 9408.2 | 9558.3 | 7422.8 | 4727.8 |
| 77.5° | 150.1 | 131.1 | 135.0 | 169.3 | 858.7 | 2345.3 | 1667.0 | 4906.2 | 4745.9 | 2603.3 | 1006.8 |
| 80° | 85.7 | 75.5 | 80.6 | 148.1 | 312.4 | 2188.0 | 1572.3 | 1989.4 | 1696.2 | 441.4 | 278.1 |
| 82.5° | 45.4 | 38.3 | 46.4 | 121.9 | 217.7 | 1363.5 | 1575.3 | 961.5 | 761.9 | 149.2 | 189.5 |
| 85° | 16.1 | 13.0 | 22.2 | 83.6 | 145.2 | 418.3 | 1460.4 | 808.2 | 634.9 | 72.6 | 144.1 |
| 87.5° | 3.1 | 3.1 | 9.1 | 34.2 | 58.5 | 128.0 | 863.7 | 479.8 | 321.6 | 43.4 | 98.8 |
| 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: P269232

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 | 3810.7 |
| 2.5° | 3798.6 | 3755.3 | 3696.7 | 3625.2 | 3540.6 | 3466.0 | 3410.5 | 3353.2 | 3340.9 | 3320.9 | 3317.8 |
| 5° | 3773.4 | 3698.9 | 3553.7 | 3387.4 | 3210.0 | 3049.7 | 2919.8 | 2803.8 | 2752.4 | 2708.1 | 2703.0 |
| 7.5° | 3736.1 | 3624.2 | 3377.3 | 3109.3 | 2832.0 | 2580.1 | 2366.4 | 2215.2 | 2076.2 | 2009.7 | 1999.5 |
| 10° | 3692.8 | 3532.4 | 3178.7 | 2806.8 | 2423.8 | 2068.1 | 1750.6 | 1484.5 | 1323.4 | 1227.5 | 1215.4 |
| 12.5° | 3652.4 | 3442.8 | 2976.2 | 2493.3 | 1984.4 | 1508.8 | 1100.6 | 846.7 | 677.2 | 608.7 | 600.6 |
| 15° | 3633.3 | 3370.3 | 2786.7 | 2172.9 | 1524.9 | 960.5 | 601.7 | 465.6 | 410.2 | 394.0 | 393.1 |
| 17.5° | 3631.3 | 3308.7 | 2601.2 | 1841.3 | 1068.4 | 558.3 | 392.0 | 357.7 | 346.7 | 342.7 | 342.7 |
| 20° | 3630.2 | 3250.2 | 2415.8 | 1497.7 | 678.3 | 371.9 | 326.5 | 318.4 | 310.5 | 305.3 | 305.3 |
| 22.5° | 3641.3 | 3197.8 | 2222.2 | 1147.0 | 427.4 | 301.3 | 287.3 | 279.2 | 269.1 | 262.0 | 261.0 |
| 25° | 3652.4 | 3157.5 | 2024.8 | 816.4 | 309.3 | 262.0 | 247.9 | 236.9 | 222.7 | 213.6 | 212.7 |
| 27.5° | 3654.5 | 3107.1 | 1813.0 | 546.3 | 259.0 | 228.8 | 210.7 | 193.6 | 177.3 | 168.3 | 167.4 |
| 30° | 3624.2 | 3022.4 | 1578.3 | 368.8 | 228.8 | 198.5 | 174.4 | 156.2 | 141.2 | 134.0 | 134.0 |
| 32.5° | 3564.7 | 2917.8 | 1320.2 | 278.1 | 203.6 | 170.3 | 144.1 | 127.0 | 116.9 | 113.8 | 112.8 |
| 35° | 3511.4 | 2804.8 | 1055.1 | 235.9 | 182.4 | 144.1 | 117.9 | 106.8 | 100.8 | 99.8 | 98.8 |
| 37.5° | 3480.0 | 2714.0 | 806.3 | 213.6 | 162.2 | 120.9 | 99.8 | 91.6 | 88.8 | 86.6 | 87.7 |
| 40° | 3504.3 | 2638.5 | 595.7 | 195.6 | 142.1 | 100.8 | 84.7 | 80.6 | 77.7 | 76.5 | 76.5 |
| 42.5° | 3610.1 | 2625.4 | 442.4 | 179.4 | 123.0 | 83.6 | 73.7 | 70.5 | 68.5 | 67.6 | 68.5 |
| 45° | 3888.3 | 2706.1 | 343.7 | 164.3 | 103.8 | 70.5 | 62.5 | 61.4 | 60.5 | 60.5 | 60.5 |
| 47.5° | 4306.6 | 2872.3 | 286.2 | 147.1 | 86.6 | 60.5 | 54.4 | 53.4 | 52.5 | 53.4 | 53.4 |
| 50° | 5015.0 | 3176.8 | 255.9 | 130.1 | 71.5 | 51.5 | 46.4 | 46.4 | 46.4 | 46.4 | 47.4 |
| 52.5° | 6092.5 | 3775.3 | 235.9 | 112.8 | 58.5 | 43.4 | 39.3 | 39.3 | 40.3 | 40.3 | 41.3 |
| 55° | 7292.7 | 4569.6 | 217.7 | 95.8 | 49.3 | 36.3 | 32.2 | 33.2 | 34.2 | 35.3 | 35.3 |
| 57.5° | 8595.0 | 5449.4 | 202.6 | 78.6 | 42.3 | 29.3 | 27.2 | 28.2 | 29.3 | 31.3 | 31.3 |
| 60° | 10166.1 | 6401.9 | 180.4 | 61.4 | 35.3 | 23.1 | 21.2 | 23.1 | 26.2 | 28.2 | 29.3 |
| 62.5° | 11891.6 | 7323.1 | 152.3 | 48.4 | 29.3 | 18.1 | 17.2 | 21.2 | 25.2 | 27.2 | 28.2 |
| 65° | 13070.7 | 7612.2 | 116.9 | 39.3 | 22.2 | 13.0 | 14.2 | 19.1 | 24.2 | 27.2 | 27.2 |
| 67° | 12593.0 | 6901.7 | 95.8 | 33.2 | 18.1 | 10.2 | 13.0 | 19.1 | 24.2 | 26.2 | 27.2 |
| 67.5° | 12261.4 | 6623.6 | 91.6 | 32.2 | 17.2 | 10.2 | 13.0 | 19.1 | 24.2 | 27.2 | 27.2 |
| 70° | 9976.7 | 4975.7 | 76.5 | 24.2 | 14.2 | 9.1 | 11.0 | 18.1 | 23.1 | 26.2 | 26.2 |
| 72.5° | 6932.0 | 3067.9 | 68.5 | 17.2 | 12.0 | 8.1 | 10.2 | 17.2 | 22.2 | 25.2 | 26.2 |
| 75° | 3295.6 | 1110.7 | 58.5 | 13.0 | 11.0 | 7.0 | 9.1 | 17.2 | 22.2 | 25.2 | 25.2 |
| 77.5° | 672.2 | 258.1 | 47.4 | 11.0 | 9.1 | 7.0 | 8.1 | 16.1 | 21.2 | 24.2 | 24.2 |
| 80° | 220.8 | 99.8 | 35.3 | 10.2 | 9.1 | 7.0 | 8.1 | 15.1 | 21.2 | 23.1 | 24.2 |
| 82.5° | 159.2 | 50.3 | 23.1 | 10.2 | 9.1 | 7.0 | 7.0 | 15.1 | 20.1 | 23.1 | 23.1 |
| 85° | 121.9 | 35.3 | 15.1 | 10.2 | 9.1 | 7.0 | 7.0 | 14.2 | 19.1 | 22.2 | 22.2 |
| 87.5° | 80.6 | 14.2 | 12.0 | 10.2 | 9.1 | 7.0 | 7.0 | 14.2 | 18.1 | 21.2 | 22.2 |
| 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)