

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: P191051

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191051  
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-03-LED-E1-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 15397.4 lumens  
Efficiency: N/A  
Efficacy: 92.8 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): 166  
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

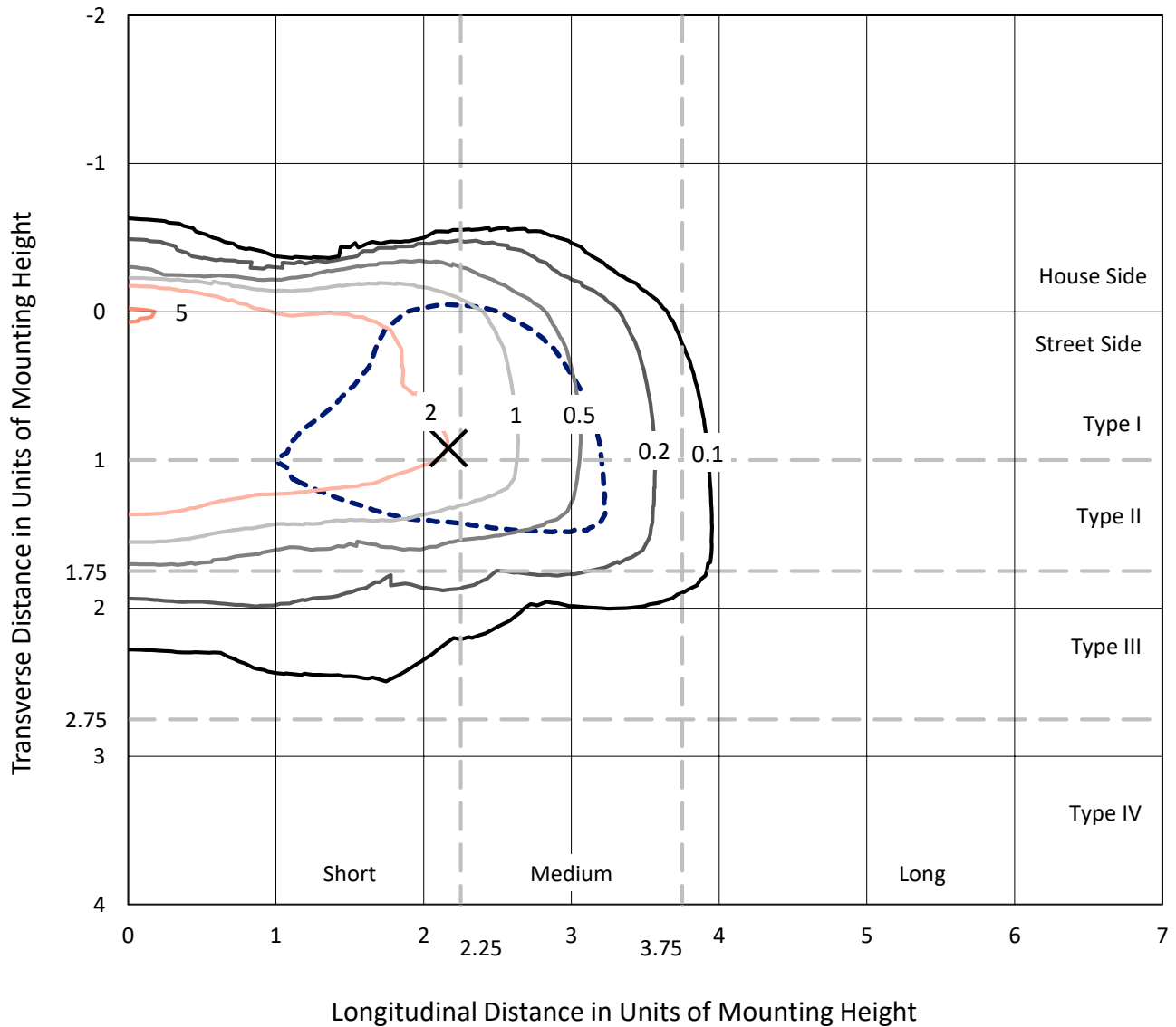


REPORT NUMBER: P191051

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

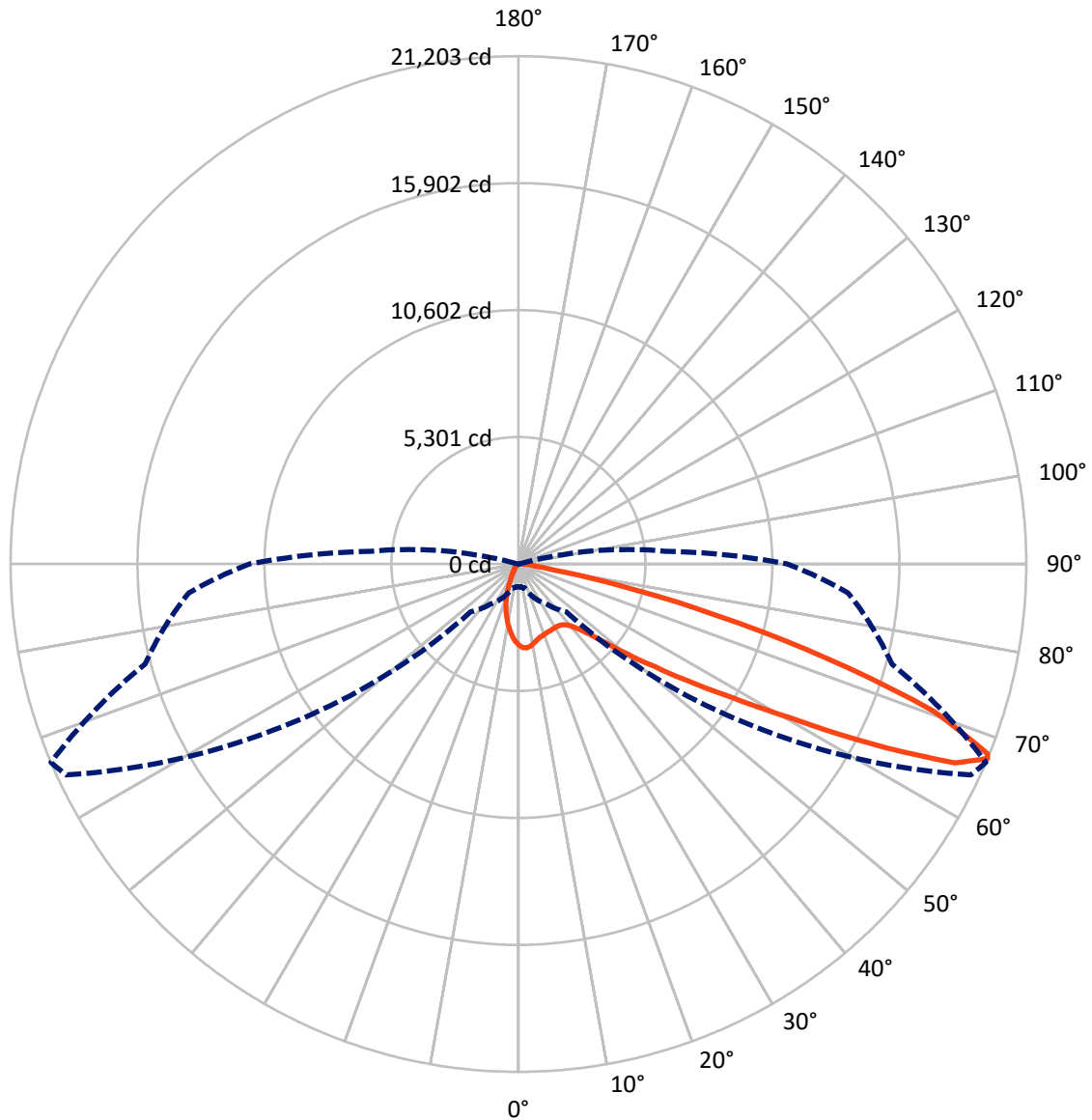
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191051  
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191051

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-HSS

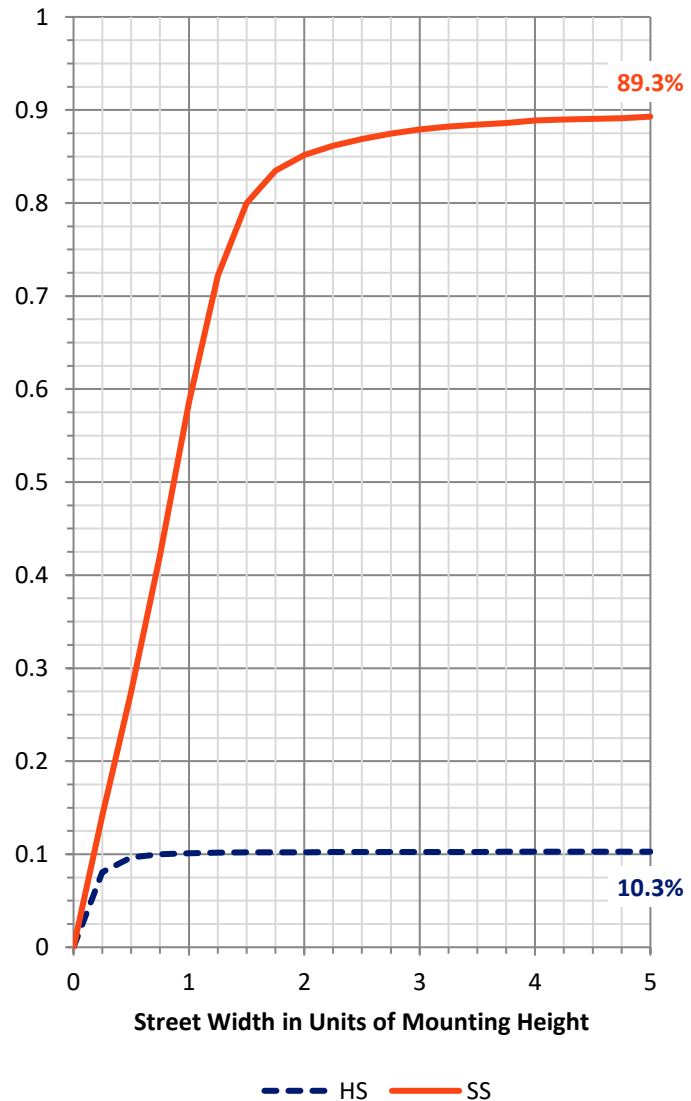
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1598.7	0.0	1598.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	13798.7	0.0	13798.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	15397.4	0.0	15397.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.3	1.8
10°-20°	588.1	3.8
20°-30°	855.0	5.6
30°-40°	1333.9	8.7
40°-50°	2362.9	15.3
50°-60°	3739.0	24.3
60°-70°	4282.5	27.8
70°-80°	1776.3	11.5
80°-90°	183.5	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°	15397.4	100.0
0°-180°	15397.4	100.0



REPORT NUMBER: P191051

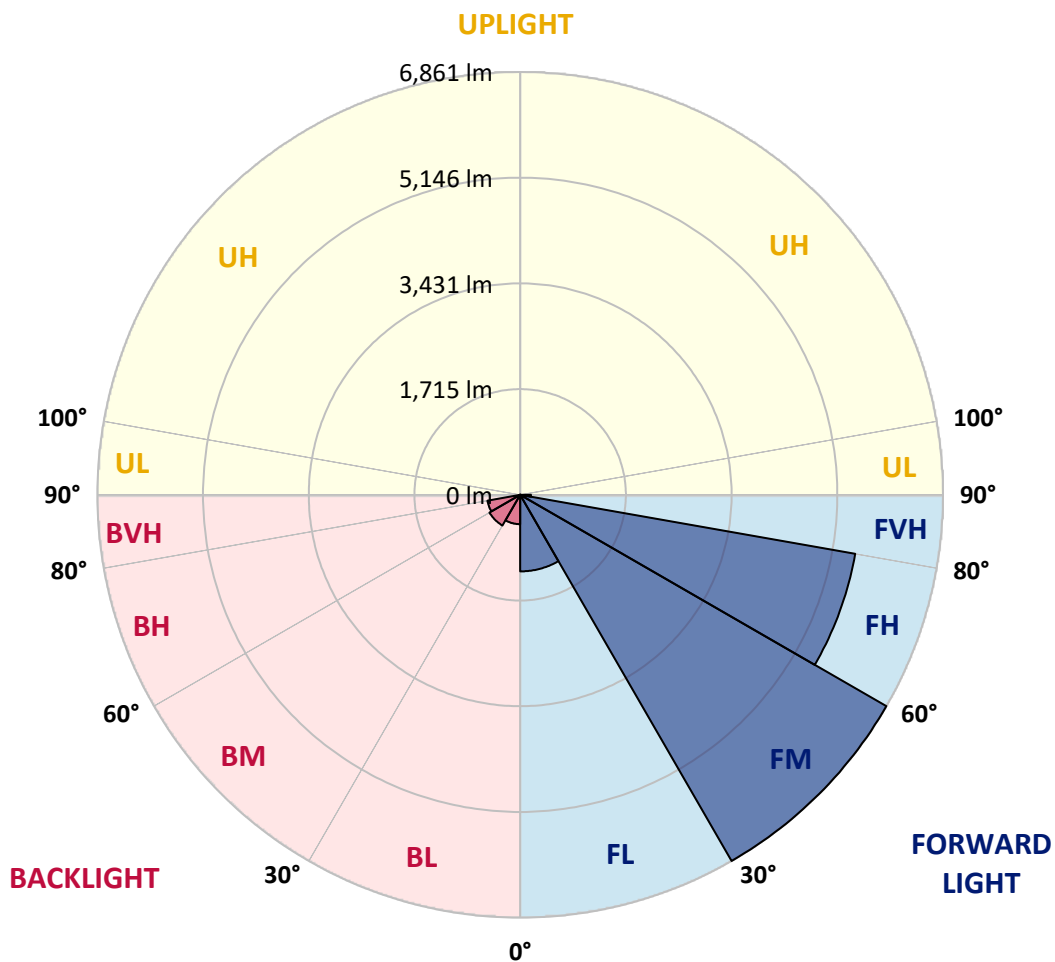
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.3	8.1			
FM (30°-60°)	6861.1	44.6			
FH (60°-80°)	5520.0	35.9			G3/7500
FVH (80°-90°)	175.2	1.1			G2/225
BL (0°-30°)	477.1	3.1	B1/500		
BM (30°-60°)	574.6	3.7	B1/1000		
BH (60°-80°)	538.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.3	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: P191051

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7
2.5°	3510.7	3517.8	3516.9	3522.3	3534.9	3535.8	3523.2	3499.0	3493.6	3462.2	3407.3
5°	3237.6	3258.3	3270.9	3322.0	3379.5	3448.7	3500.7	3519.7	3516.9	3494.5	3411.8
7.5°	2926.0	2946.6	2961.0	3021.2	3097.5	3216.1	3351.7	3463.1	3472.9	3497.2	3408.3
10°	2718.5	2722.2	2741.9	2799.4	2879.3	3000.5	3162.2	3357.1	3386.7	3475.7	3399.3
12.5°	2547.9	2550.6	2576.6	2638.6	2723.9	2846.1	3015.8	3241.2	3287.0	3448.7	3397.5
15°	2426.6	2436.6	2459.9	2524.5	2615.3	2736.5	2910.7	3155.9	3210.7	3438.9	3413.7
17.5°	2386.2	2397.0	2404.2	2450.9	2533.5	2652.1	2830.8	3100.3	3162.2	3444.2	3445.1
20°	2428.5	2436.6	2420.4	2432.1	2483.2	2589.2	2763.4	3052.6	3126.2	3450.5	3485.5
22.5°	2585.6	2589.2	2545.2	2494.1	2485.1	2543.4	2710.4	3014.9	3093.9	3467.6	3533.1
25°	2855.1	2848.8	2776.9	2666.4	2562.3	2535.3	2679.0	2991.5	3077.8	3485.5	3582.5
27.5°	3180.1	3189.2	3090.3	2929.6	2731.1	2589.2	2674.5	2981.7	3070.6	3498.1	3625.6
30°	3575.3	3587.9	3474.8	3272.6	2987.9	2722.2	2715.8	2979.9	3066.1	3490.0	3629.2
32.5°	3978.6	3993.8	3904.9	3696.5	3331.0	2944.9	2809.2	2999.6	3075.1	3462.2	3608.6
35°	4400.6	4422.2	4363.0	4184.3	3796.3	3266.4	2973.6	3059.9	3117.3	3459.5	3587.9
37.5°	4983.5	5003.3	4892.0	4702.4	4359.4	3697.5	3237.6	3173.0	3217.0	3502.6	3593.3
40°	5853.8	5851.1	5563.7	5273.6	4978.2	4245.3	3608.6	3377.8	3400.2	3632.8	3659.7
42.5°	6802.2	6797.7	6372.9	5931.9	5665.2	4919.8	4096.2	3731.6	3716.3	3872.6	3832.2
45°	7533.2	7532.4	7185.7	6689.1	6492.4	5693.9	4726.6	4223.8	4200.4	4262.3	4150.1
47.5°	7844.9	7850.2	7676.0	7326.7	7409.3	6741.1	5521.5	4936.9	4901.8	4876.7	4706.0
50°	7602.4	7613.2	7627.5	7559.3	8082.0	8148.4	6587.5	5941.8	5924.7	5812.5	5545.7
52.5°	6810.3	6865.0	7033.9	7250.4	8315.5	9499.2	8258.9	7190.2	7098.6	6979.1	6685.4
55°	5475.7	5535.9	5856.5	6381.9	7968.0	10386.5	10601.1	8799.5	8646.9	8290.3	7866.4
57.5°	3623.8	3717.2	4182.4	4850.6	6958.4	10529.3	12938.0	11033.1	10501.4	9525.2	9047.4
60°	1996.5	2086.3	2591.0	3196.3	5025.8	9823.4	14509.6	13941.2	13001.8	10905.6	10481.7
62.5°	1229.5	1278.0	1650.7	2213.8	3014.0	7753.3	14834.7	17595.6	16508.0	12683.0	12214.1
65°	979.0	999.6	1181.9	1809.7	2160.8	4611.8	13784.9	20381.5	20018.6	14834.7	13765.1
67°	950.2	958.3	1044.5	1553.8	2036.9	2827.2	11548.6	20835.0	21203.2	16137.0	13813.6
67.5°	956.5	965.5	1047.2	1482.8	2033.3	2598.2	10778.1	20656.2	21121.5	16240.3	13599.0
70°	922.4	950.2	1199.0	1481.8	1933.6	2159.0	6454.6	17897.3	18381.4	15089.9	11538.8
72.5°	326.9	328.7	518.2	1199.0	2102.5	2182.4	3241.2	13120.3	13478.6	11543.3	8319.0
75°	194.0	165.2	172.5	341.3	2009.1	2119.6	1869.9	8383.7	8517.6	6614.5	4213.0
77.5°	133.8	116.7	120.3	150.9	765.2	2089.9	1485.4	4372.0	4229.2	2319.7	897.2
80°	76.3	67.3	71.8	132.1	278.4	1949.7	1401.0	1772.9	1511.5	393.3	247.9
82.5°	40.4	34.2	41.3	108.6	194.0	1215.2	1403.7	856.8	678.9	132.9	168.9
85°	14.3	11.7	19.7	74.6	129.3	372.7	1301.3	720.3	565.8	64.7	128.4
87.5°	2.7	2.7	8.1	30.6	52.1	114.1	769.7	427.5	286.5	38.7	88.0
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: P191051

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7	3395.7
2.5°	3384.9	3346.3	3294.2	3230.5	3155.0	3088.6	3039.2	2987.9	2977.2	2959.2	2956.5
5°	3362.4	3296.0	3166.6	3018.5	2860.5	2717.7	2601.8	2498.6	2452.7	2413.1	2408.7
7.5°	3329.3	3229.6	3009.5	2770.7	2523.6	2299.1	2108.7	1974.0	1850.1	1790.8	1781.8
10°	3290.6	3147.8	2832.6	2501.2	2160.0	1842.8	1560.0	1322.9	1179.2	1093.8	1083.1
12.5°	3254.7	3067.9	2652.1	2221.8	1768.4	1344.5	980.7	754.4	603.5	542.5	535.3
15°	3237.6	3003.3	2483.2	1936.3	1358.8	855.9	536.1	414.9	365.5	351.2	350.3
17.5°	3235.8	2948.5	2318.0	1640.8	952.0	497.6	349.3	318.9	308.9	305.4	305.4
20°	3235.0	2896.4	2152.7	1334.5	604.5	331.4	291.0	283.8	276.6	272.1	272.1
22.5°	3244.8	2849.6	1980.3	1022.0	380.8	268.5	255.9	248.8	239.8	233.5	232.6
25°	3254.7	2813.7	1804.3	727.4	275.7	233.5	221.0	211.0	198.5	190.4	189.5
27.5°	3256.5	2768.8	1615.6	486.7	230.8	203.9	187.7	172.5	158.0	150.0	149.0
30°	3229.6	2693.4	1406.5	328.7	203.9	177.0	155.4	139.2	125.7	119.5	119.5
32.5°	3176.6	2600.0	1176.5	247.9	181.4	151.8	128.4	113.1	104.1	101.5	100.6
35°	3129.0	2499.4	940.3	210.1	162.5	128.4	105.1	95.2	89.8	88.9	88.0
37.5°	3101.2	2418.6	718.5	190.4	144.5	107.8	88.9	81.7	79.1	77.2	78.2
40°	3122.7	2351.3	530.8	174.2	126.6	89.8	75.4	71.8	69.2	68.2	68.2
42.5°	3217.0	2339.6	394.2	159.9	109.6	74.6	65.6	62.9	61.1	60.1	61.1
45°	3464.8	2411.4	306.3	146.4	92.5	62.9	55.6	54.8	53.9	53.9	53.9
47.5°	3837.6	2559.6	255.0	131.1	77.2	53.9	48.5	47.6	46.7	47.6	47.6
50°	4469.0	2830.8	228.1	115.9	63.7	45.8	41.3	41.3	41.3	41.3	42.2
52.5°	5429.0	3364.3	210.1	100.6	52.1	38.7	35.0	35.0	35.9	35.9	36.8
55°	6498.6	4072.0	194.0	85.3	44.0	32.3	28.7	29.7	30.6	31.4	31.4
57.5°	7658.9	4856.0	180.6	70.1	37.7	26.1	24.2	25.2	26.1	27.8	27.8
60°	9059.2	5704.7	160.8	54.8	31.4	20.7	18.8	20.7	23.3	25.2	26.1
62.5°	10596.6	6525.6	135.6	43.1	26.1	16.2	15.2	18.8	22.4	24.2	25.2
65°	11647.4	6783.3	104.1	35.0	19.7	11.7	12.6	17.1	21.6	24.2	24.2
67°	11221.8	6150.2	85.3	29.7	16.2	9.0	11.7	17.1	21.6	23.3	24.2
67.5°	10926.2	5902.3	81.7	28.7	15.2	9.0	11.7	17.1	21.6	24.2	24.2
70°	8890.3	4433.9	68.2	21.6	12.6	8.1	9.9	16.2	20.7	23.3	23.3
72.5°	6177.1	2733.8	61.1	15.2	10.7	7.2	9.0	15.2	19.7	22.4	23.3
75°	2936.8	989.7	52.1	11.7	9.9	6.2	8.1	15.2	19.7	22.4	22.4
77.5°	599.0	230.0	42.2	9.9	8.1	6.2	7.2	14.3	18.8	21.6	21.6
80°	196.7	88.9	31.4	9.0	8.1	6.2	7.2	13.5	18.8	20.7	21.6
82.5°	141.9	44.9	20.7	9.0	8.1	6.2	6.2	13.5	18.0	20.7	20.7
85°	108.6	31.4	13.5	9.0	8.1	6.2	6.2	12.6	17.1	19.7	19.7
87.5°	71.8	12.6	10.7	9.0	8.1	6.2	6.2	12.6	16.2	18.8	19.7
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)