

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: P269160

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7027-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13488.5 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

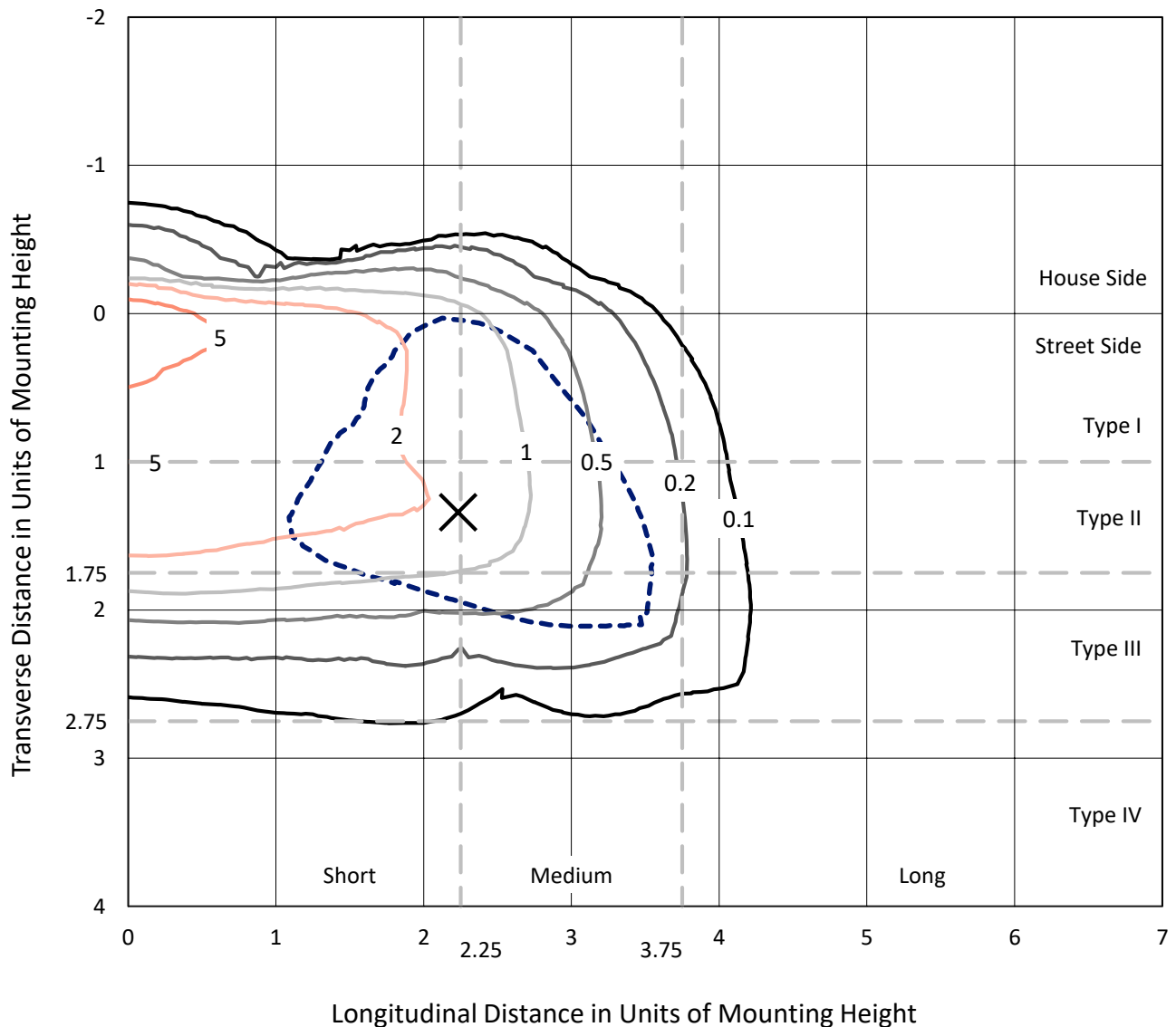
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P269160  
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-HSS

### Iso-Footcandle Lines of Horizontal Illumination

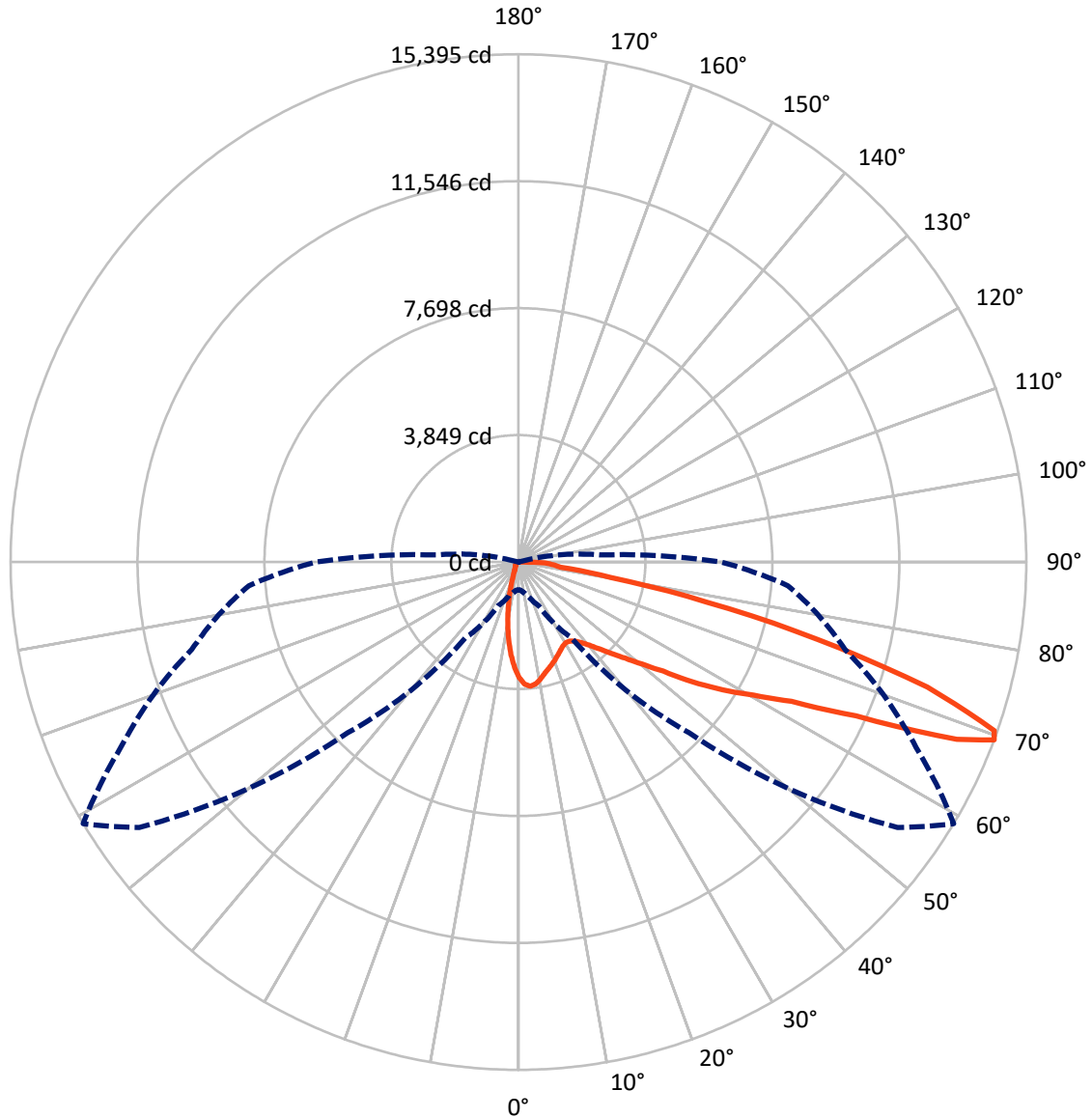
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P269160  
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P269160

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-HSS

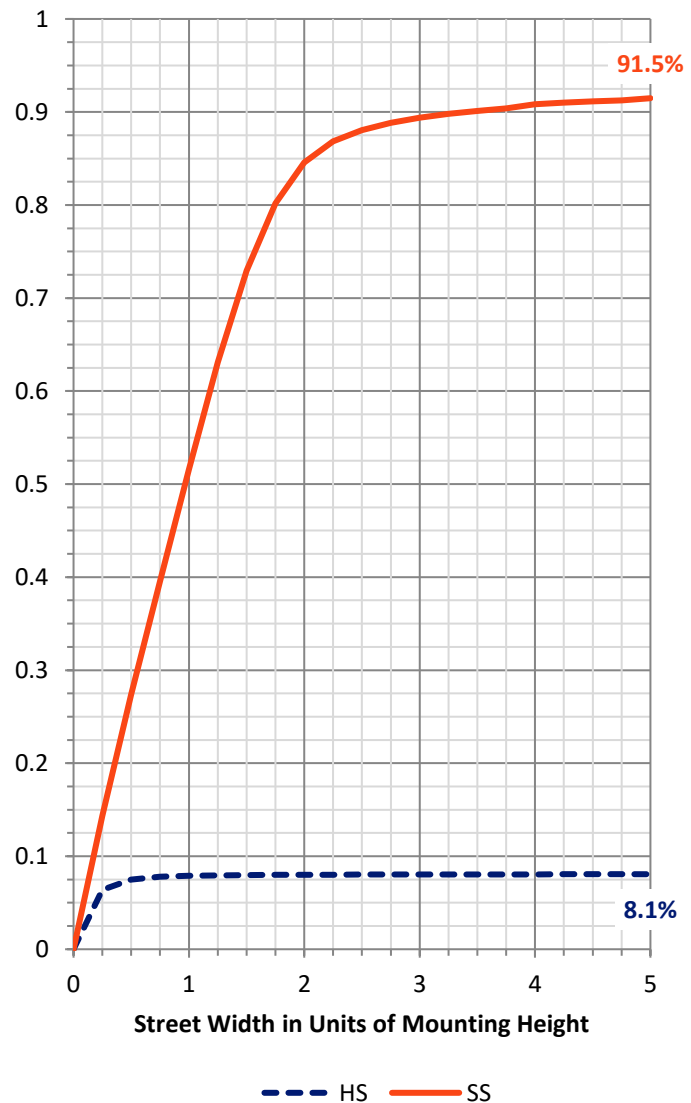
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1098.5	0.0	1098.5
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	12390.0	0.0	12390.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	13488.5	0.0	13488.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.0	2.1
10°-20°	588.8	4.4
20°-30°	792.4	5.9
30°-40°	1150.5	8.5
40°-50°	1915.6	14.2
50°-60°	2988.3	22.2
60°-70°	3697.8	27.4
70°-80°	1874.0	13.9
80°-90°	196.1	1.5
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°	13488.5	100.0
0°-180°	13488.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P269160

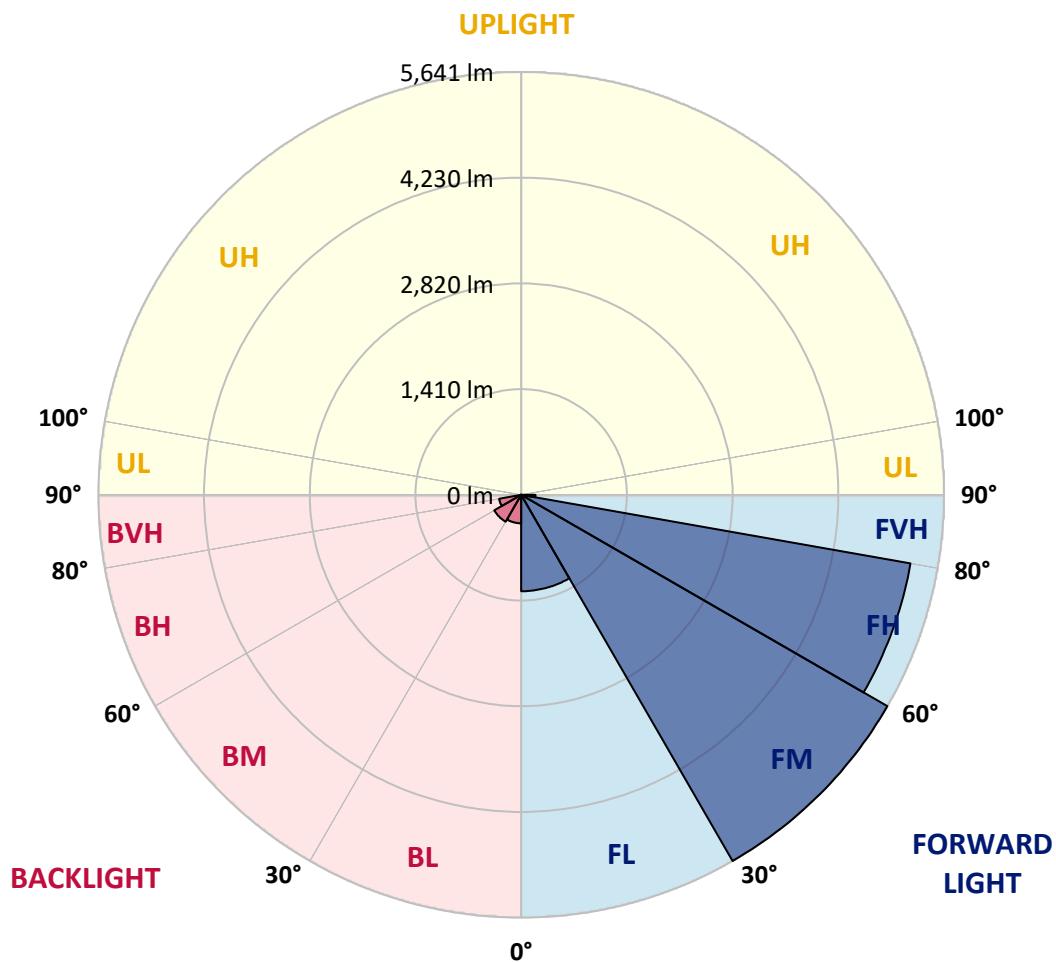
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.0	9.5			
FM (30°-60°)	5640.5	41.8			
FH (60°-80°)	5273.5	39.1			G3/7500
FVH (80°-90°)	190.0	1.4			G2/225
BL (0°-30°)	380.2	2.8	B1/500		
BM (30°-60°)	413.9	3.1	B1/1000		
BH (60°-80°)	298.3	2.2	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





REPORT NUMBER: P269160

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8
2.5°	3848.0	3846.5	3829.7	3822.1	3808.4	3779.3	3734.3	3710.7	3672.6	3606.2	3517.0
5°	3812.9	3831.2	3841.2	3842.0	3851.8	3841.2	3800.6	3780.8	3728.2	3621.4	3461.3
7.5°	3575.0	3581.8	3610.0	3634.5	3681.8	3726.7	3741.3	3732.8	3701.6	3587.1	3374.4
10°	3320.1	3327.1	3360.6	3392.7	3456.7	3526.1	3599.4	3614.6	3627.5	3538.3	3290.4
12.5°	3100.5	3107.3	3141.7	3183.7	3258.4	3343.9	3457.4	3482.6	3539.9	3491.8	3223.3
15°	2911.3	2914.5	2948.0	2999.8	3089.1	3199.0	3327.9	3368.3	3456.0	3459.1	3164.5
17.5°	2750.4	2758.1	2778.6	2828.3	2925.9	3061.7	3211.9	3269.8	3372.9	3431.5	3107.3
20°	2652.1	2659.6	2659.0	2686.3	2774.1	2919.0	3096.0	3165.4	3290.4	3403.3	3056.3
22.5°	2632.9	2632.9	2613.1	2609.2	2661.1	2782.5	2975.5	3060.0	3216.4	3391.1	3020.5
25°	2700.8	2697.8	2648.3	2607.8	2610.0	2682.6	2858.8	2959.5	3153.9	3399.5	3001.3
27.5°	2844.3	2840.4	2777.9	2700.8	2639.1	2638.3	2770.3	2878.6	3104.4	3439.3	3009.1
30°	3042.6	3041.0	2973.1	2876.3	2764.2	2661.1	2739.7	2838.1	3072.4	3510.8	3026.5
32.5°	3259.2	3256.9	3205.8	3103.6	2961.7	2764.2	2771.8	2854.2	3081.5	3606.2	3069.2
35°	3488.7	3485.0	3462.8	3373.6	3217.2	2954.0	2877.0	2941.1	3139.4	3748.8	3153.1
37.5°	3737.4	3741.3	3757.3	3671.8	3507.8	3220.2	3053.2	3096.6	3256.1	3942.7	3289.7
40°	4104.3	4103.5	4108.8	3996.6	3838.8	3546.0	3299.6	3313.3	3451.4	4199.7	3497.1
42.5°	4770.1	4723.6	4582.6	4353.6	4195.1	3918.1	3610.0	3595.6	3690.1	4517.7	3787.8
45°	5664.8	5565.7	5199.6	4760.9	4558.1	4337.6	3992.2	3945.6	4005.9	4899.9	4146.2
47.5°	6434.4	6331.4	5813.7	5185.0	4943.4	4735.9	4440.0	4356.1	4375.9	5327.7	4600.8
50°	6696.1	6645.8	6193.5	5554.2	5316.3	5236.8	4959.4	4857.0	4828.8	5822.8	5127.9
52.5°	6605.2	6601.5	6300.3	5793.8	5658.0	5755.6	5613.0	5494.8	5391.0	6344.4	5664.1
55°	6459.6	6478.7	6343.7	6003.6	5998.9	6229.2	6507.0	6408.5	6107.9	6911.1	6126.4
57.5°	6057.6	6139.2	6319.2	6400.2	6587.7	6823.4	7251.3	7309.2	6953.9	7345.1	6509.9
60°	4915.0	5094.3	5683.1	6457.3	7346.7	7934.0	8149.9	8199.4	7647.9	7705.9	7027.8
62.5°	3488.7	3671.8	4418.6	5728.1	7358.0	9393.0	9488.4	9294.0	8412.2	8240.6	7921.1
65°	1851.9	1993.0	2603.2	4134.8	6379.6	9731.8	11829.3	11249.6	9760.8	9292.3	9075.0
67.5°	947.4	990.0	1232.6	2023.5	4385.7	8644.1	13927.5	14335.6	12084.8	10335.8	9019.3
69°	838.3	863.5	1024.3	1462.9	2808.5	7321.5	14029.8	15395.1	13301.4	10248.9	8196.3
70°	811.6	833.6	980.1	1324.1	2195.2	6140.1	13638.4	15302.0	13612.6	9917.8	7581.5
72.5°	688.7	707.9	872.6	1170.0	1784.0	3047.9	11078.7	12966.5	12215.2	8261.9	5487.8
75°	460.7	523.3	837.5	1096.8	1659.7	1731.5	7303.9	9370.2	8704.3	5572.5	2858.8
77.5°	110.6	118.9	236.4	872.6	1517.9	1524.0	3756.4	5825.0	4751.0	1986.2	675.7
80°	59.5	57.2	66.4	173.2	1413.4	1430.1	1691.0	2827.4	1696.3	329.5	222.7
82.5°	42.0	39.6	42.7	72.5	444.8	1302.7	1223.4	1279.8	703.3	126.7	99.9
85°	15.2	14.6	23.6	65.5	139.5	748.9	1257.0	1055.6	569.7	58.0	73.2
87.5°	5.3	4.6	9.2	35.8	42.7	318.8	775.6	797.9	224.2	35.0	34.3
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: P269160

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8
2.5°	3479.7	3432.3	3345.4	3256.1	3173.7	3074.5	3025.0	2976.2	2955.7	2948.0	2912.1
5°	3379.0	3298.8	3114.2	2929.0	2758.1	2576.5	2456.8	2360.7	2304.2	2276.8	2233.2
7.5°	3250.0	3118.8	2839.0	2552.9	2286.6	2024.3	1829.8	1680.3	1577.3	1527.7	1482.7
10°	3124.9	2950.3	2552.2	2162.4	1800.8	1453.0	1184.5	990.0	865.6	808.6	772.0
12.5°	3012.7	2786.3	2275.2	1781.8	1328.0	920.7	647.6	492.7	415.6	389.0	376.0
15°	2912.8	2635.3	2013.6	1420.2	899.3	526.2	353.9	301.3	289.1	289.1	287.5
17.5°	2818.3	2487.2	1761.1	1080.8	564.5	321.9	269.2	262.3	262.3	265.4	265.4
20°	2727.6	2346.2	1517.1	775.6	355.4	255.5	243.4	241.7	243.4	247.2	247.2
22.5°	2649.7	2218.1	1289.0	532.3	263.9	230.3	224.2	221.9	222.7	225.0	226.6
25°	2591.8	2109.7	1074.0	360.8	227.4	209.8	202.8	199.1	196.0	196.0	197.5
27.5°	2555.1	2018.2	865.6	262.3	204.5	190.7	180.0	173.9	167.1	163.2	164.7
30°	2528.5	1931.3	670.5	214.3	183.1	169.3	155.5	145.6	135.7	131.2	132.7
32.5°	2518.6	1861.1	501.2	189.2	164.0	148.7	132.0	118.9	108.3	104.6	105.2
35°	2545.3	1805.5	366.9	170.9	148.7	129.6	110.6	96.1	87.8	85.3	86.1
37.5°	2615.4	1775.7	274.6	155.5	135.0	113.6	92.3	78.5	73.2	73.2	74.0
40°	2748.2	1775.0	220.4	144.9	122.8	98.4	76.3	66.4	63.3	64.9	65.5
42.5°	2941.9	1815.4	192.1	135.0	112.1	83.9	63.3	56.5	55.7	57.2	58.0
45°	3206.5	1889.2	177.0	126.7	100.7	70.2	53.4	48.8	48.8	51.2	51.8
47.5°	3530.7	1997.7	164.0	118.2	89.2	58.7	45.8	42.7	43.5	45.8	46.5
50°	3921.2	2134.2	151.1	109.1	80.8	48.8	39.6	37.4	38.2	41.2	42.0
52.5°	4365.9	2317.9	140.3	100.7	70.2	40.5	33.5	32.0	33.5	36.7	37.4
55°	4747.3	2482.6	127.4	93.9	56.5	33.5	27.5	27.5	28.9	32.8	33.5
57.5°	5114.1	2655.1	115.9	80.8	44.2	26.7	22.8	23.6	26.0	29.7	30.5
60°	5652.7	2947.2	102.1	67.9	33.5	21.4	19.0	19.9	22.8	26.7	27.5
62.5°	6567.1	3391.9	88.5	56.5	26.0	16.8	15.2	16.8	20.7	25.2	26.0
65°	7392.4	3572.6	72.5	47.3	19.9	12.9	12.9	15.2	19.9	24.4	25.2
67.5°	6932.5	3007.4	56.5	37.4	15.2	9.9	10.7	14.6	19.0	24.4	25.2
69°	6130.8	2459.1	48.1	29.7	12.9	9.2	9.9	14.6	19.0	23.6	24.4
70°	5506.3	2076.2	42.7	25.2	11.5	9.2	9.9	13.7	19.0	23.6	24.4
72.5°	3687.8	1121.3	34.3	18.3	10.7	8.4	8.4	13.7	18.3	22.8	23.6
75°	1585.0	309.6	27.5	12.9	9.2	7.6	7.6	12.9	17.5	22.1	23.6
77.5°	289.9	78.5	22.1	11.5	9.2	7.6	6.8	12.1	16.8	21.4	22.1
80°	115.2	38.8	17.5	9.9	8.4	6.8	6.1	11.5	16.0	20.7	21.4
82.5°	69.3	22.1	14.6	9.2	8.4	6.1	5.3	9.9	15.2	19.9	20.7
85°	56.5	15.2	11.5	9.2	7.6	6.1	4.6	9.2	13.7	19.0	19.9
87.5°	27.5	10.7	10.7	8.4	7.6	6.1	4.6	8.4	12.9	18.3	19.0
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)