

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: P193674

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193674  
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-06-LED-E1-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 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: 24819 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 333  
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

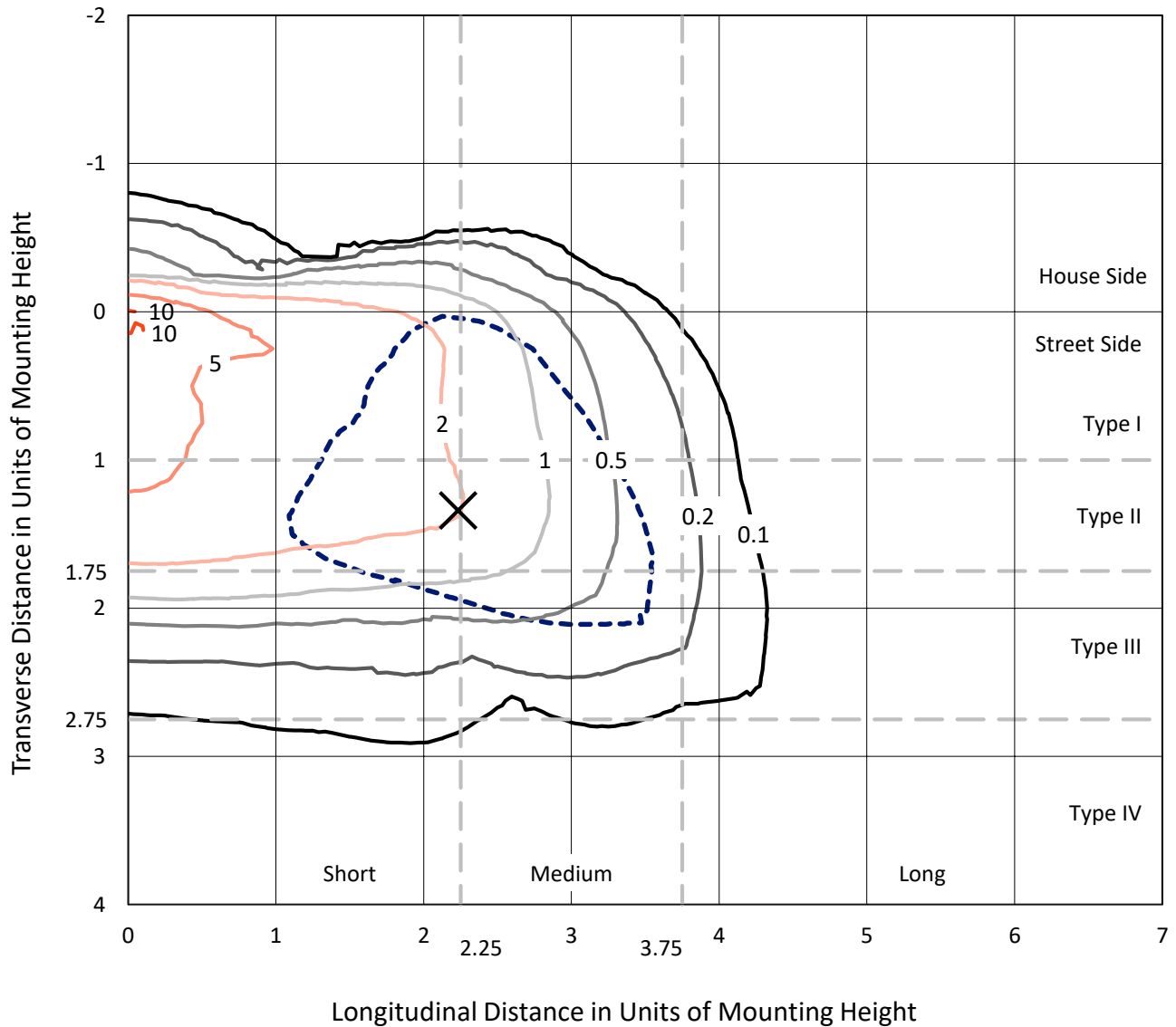


REPORT NUMBER: P193674

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

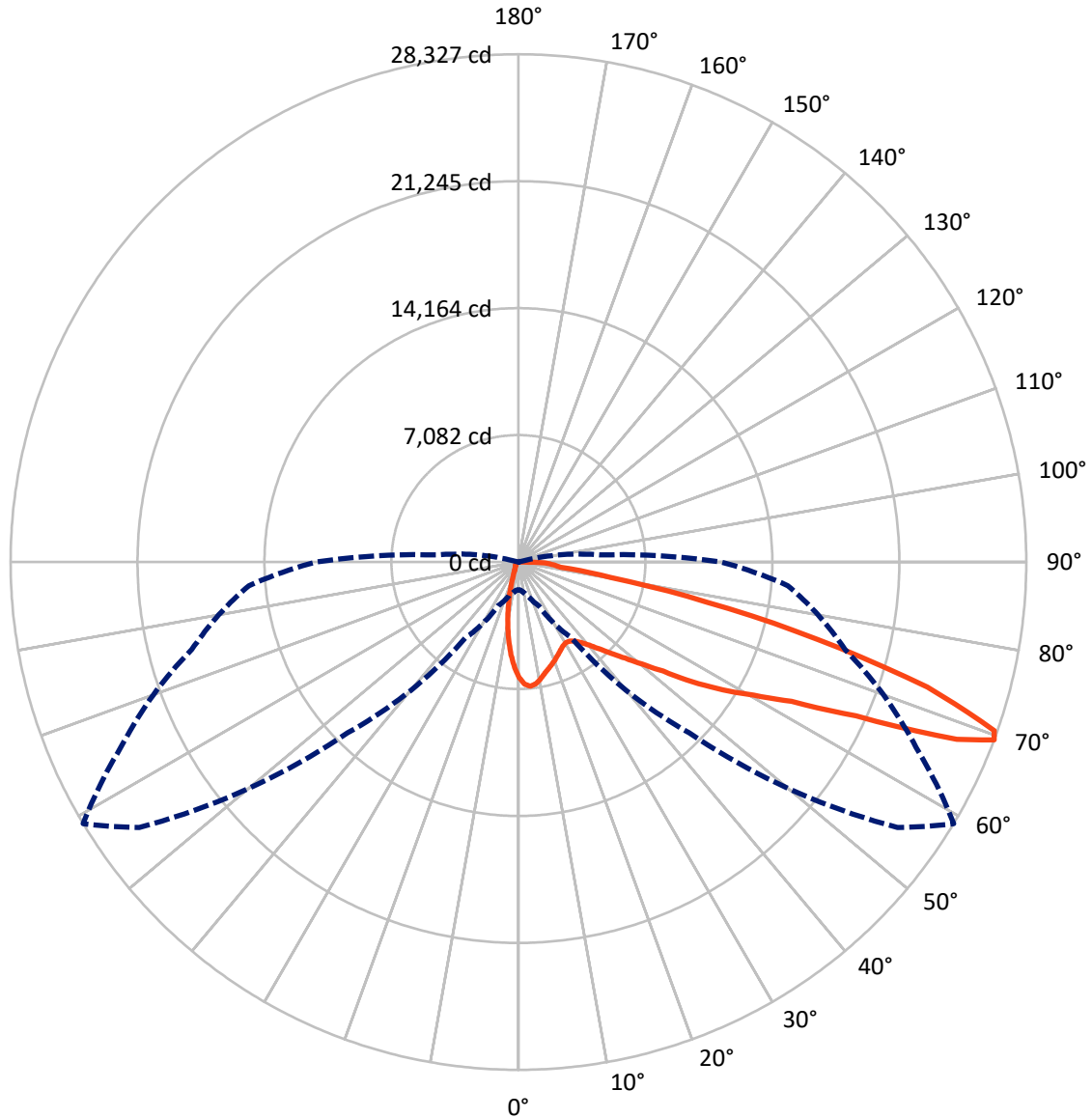


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P193674

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193674

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-HSS

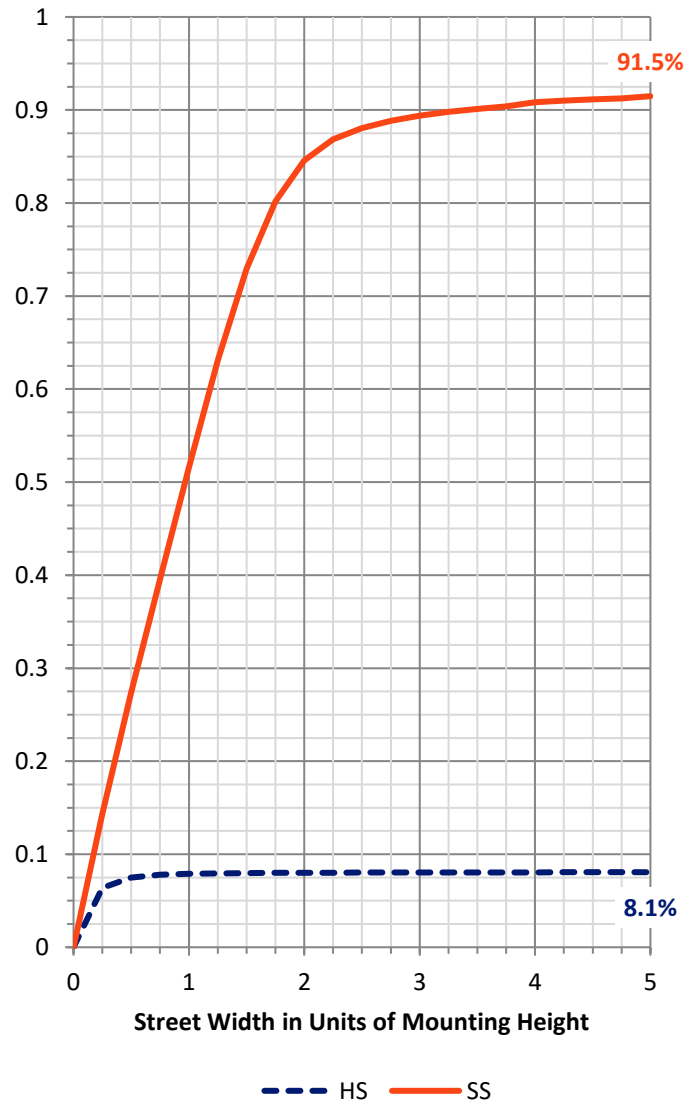
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2021.2	0.0	2021.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	22797.8	0.0	22797.8
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	24819.0	0.0	24819.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.4	2.1
10°-20°	1083.5	4.4
20°-30°	1458.0	5.9
30°-40°	2116.9	8.5
40°-50°	3524.8	14.2
50°-60°	5498.5	22.2
60°-70°	6804.0	27.4
70°-80°	3448.2	13.9
80°-90°	360.8	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°	24819.0	100.0
0°-180°	24819.0	100.0



REPORT NUMBER: P193674

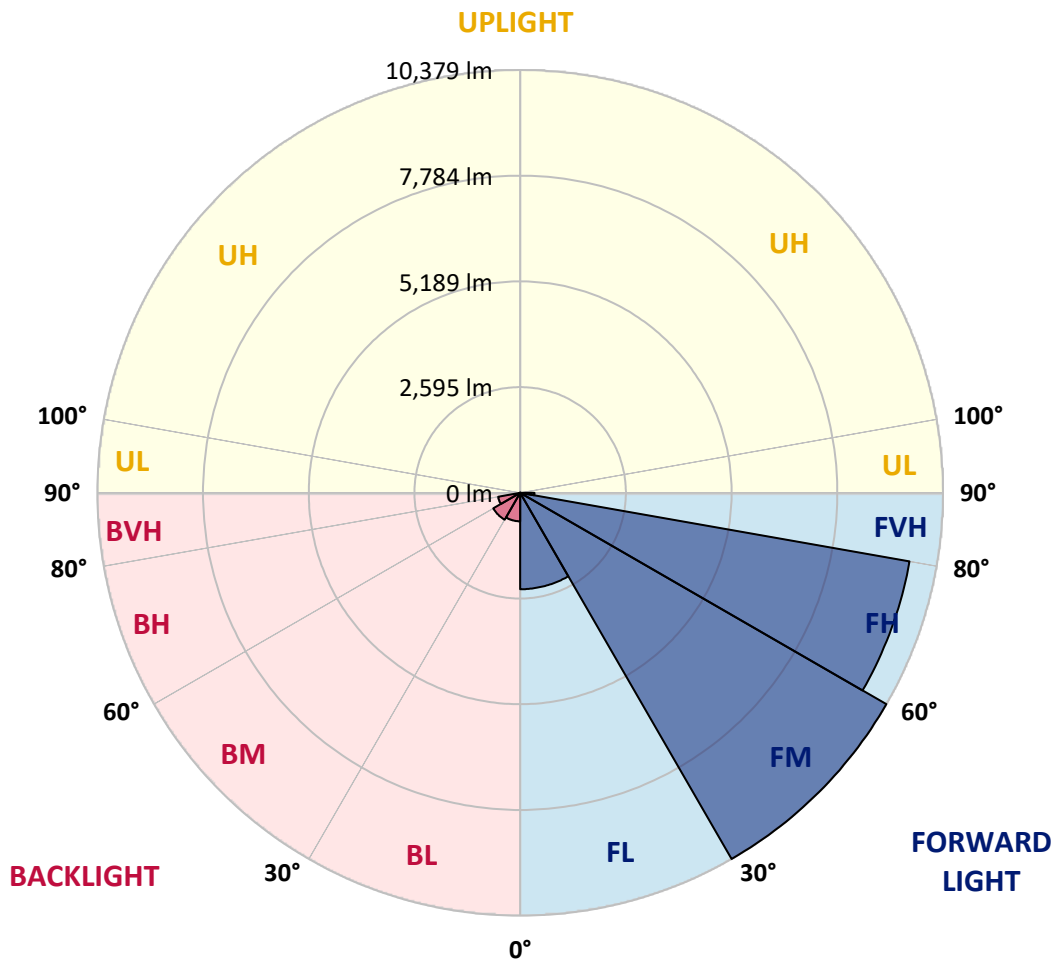
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2366.2	9.5			
FM (30°-60°)	10378.6	41.8			
FH (60°-80°)	9703.3	39.1			G4/12000
FVH (80°-90°)	349.7	1.4			G3/500
BL (0°-30°)	699.6	2.8	B2/1000		
BM (30°-60°)	761.6	3.1	B1/1000		
BH (60°-80°)	548.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	11.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P193674

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0
2.5°	7080.4	7077.6	7046.7	7032.6	7007.4	6954.1	6871.3	6827.7	6757.6	6635.5	6471.3
5°	7015.8	7049.5	7067.7	7069.1	7087.4	7067.7	6993.4	6956.9	6860.0	6663.5	6368.8
7.5°	6577.9	6590.6	6642.5	6687.4	6774.4	6857.2	6883.9	6868.4	6810.9	6600.4	6208.8
10°	6109.2	6121.8	6183.6	6242.5	6360.4	6488.1	6622.8	6650.9	6674.8	6510.6	6054.4
12.5°	5705.0	5717.6	5780.8	5858.0	5995.5	6152.7	6361.8	6408.1	6513.4	6425.0	5930.9
15°	5356.9	5362.6	5424.3	5519.7	5683.9	5886.0	6123.2	6197.6	6359.0	6364.6	5822.9
17.5°	5060.8	5074.8	5112.7	5204.0	5383.6	5633.4	5909.9	6016.6	6206.0	6314.1	5717.6
20°	4879.8	4893.8	4892.4	4942.9	5104.3	5371.0	5696.6	5824.3	6054.4	6262.2	5623.6
22.5°	4844.7	4844.7	4808.2	4801.2	4896.6	5119.8	5474.8	5630.6	5918.3	6239.7	5557.6
25°	4969.6	4964.0	4872.7	4798.4	4802.6	4935.9	5260.1	5445.4	5803.2	6255.1	5522.5
27.5°	5233.4	5226.4	5111.3	4969.6	4855.9	4854.5	5097.3	5296.6	5712.0	6328.1	5536.6
30°	5598.3	5595.5	5470.6	5292.4	5086.1	4896.6	5041.2	5222.2	5653.1	6460.0	5568.9
32.5°	5996.9	5992.7	5898.7	5710.6	5449.6	5086.1	5100.1	5251.7	5669.9	6635.5	5647.4
35°	6419.3	6412.3	6371.6	6207.4	5919.7	5435.5	5293.8	5411.7	5776.6	6897.9	5801.8
37.5°	6876.9	6883.9	6913.4	6756.2	6454.4	5925.3	5618.0	5698.0	5991.3	7254.4	6053.0
40°	7551.9	7550.5	7560.3	7354.0	7063.5	6524.6	6071.3	6096.6	6350.6	7727.4	6434.8
42.5°	8777.1	8691.5	8431.9	8010.8	7718.9	7209.5	6642.5	6615.8	6789.9	8312.6	6969.5
45°	10423.4	10240.9	9567.3	8760.3	8387.0	7981.4	7345.6	7260.0	7370.9	9015.7	7629.1
47.5°	11839.4	11650.0	10697.0	9540.6	9095.7	8714.0	8169.4	8015.1	8051.5	9803.0	8465.6
50°	12320.8	12228.2	11395.9	10219.9	9782.0	9636.0	9125.2	8937.1	8885.2	10713.9	9435.3
52.5°	12153.8	12146.8	11592.4	10660.5	10410.7	10590.4	10327.9	10110.4	9919.5	11673.8	10422.0
55°	11885.7	11920.8	11672.4	11046.5	11038.1	11461.9	11972.8	11791.7	11238.8	12716.6	11272.4
57.5°	11146.1	11296.3	11627.5	11776.3	12121.5	12555.2	13342.5	13449.2	12795.2	13515.1	11978.4
60°	9043.8	9373.6	10457.0	11881.5	13518.0	14598.6	14995.8	15087.0	14072.3	14179.0	12931.3
62.5°	6419.3	6756.2	8130.1	10539.8	13539.0	17283.4	17458.8	17100.9	15478.6	15162.8	14574.7
65°	3407.6	3667.2	4789.9	7608.1	11738.4	17906.5	21766.0	20699.4	17959.8	17098.1	16698.2
67.5°	1743.1	1821.7	2268.0	3723.3	8069.8	15905.2	25626.8	26377.7	22236.1	19018.0	16595.7
69°	1542.4	1588.7	1884.8	2691.8	5167.5	13471.6	25814.9	28327.1	24474.6	18858.0	15081.4
70°	1493.3	1534.0	1803.4	2436.4	4039.1	11297.7	25094.9	28155.8	25047.2	18249.0	13950.2
72.5°	1267.3	1302.4	1605.5	2152.9	3282.7	5608.2	20385.0	23858.5	22476.1	15202.1	10097.8
75°	847.7	962.8	1541.0	2018.1	3053.9	3185.8	13439.4	17241.3	16016.1	10253.5	5260.1
77.5°	203.5	218.9	435.1	1605.5	2792.8	2804.1	6912.0	10718.1	8742.0	3654.6	1243.4
80°	109.5	105.3	122.1	318.6	2600.6	2631.5	3111.4	5202.6	3121.3	606.3	409.8
82.5°	77.2	73.0	78.6	133.3	818.2	2397.1	2251.1	2355.0	1294.0	233.0	183.9
85°	28.1	26.7	43.5	120.7	256.8	1378.2	2312.9	1942.4	1048.4	106.7	134.7
87.5°	9.8	8.4	16.8	66.0	78.6	586.6	1427.3	1468.0	412.6	64.6	63.2
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: P193674

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0	6460.0
2.5°	6402.5	6315.5	6155.5	5991.3	5839.7	5657.3	5566.1	5476.2	5438.3	5424.3	5358.3
5°	6217.2	6069.9	5730.3	5389.2	5074.8	4740.8	4520.5	4343.7	4239.8	4189.3	4109.3
7.5°	5980.1	5738.7	5223.6	4697.3	4207.5	3724.7	3366.9	3091.8	2902.3	2811.1	2728.3
10°	5749.9	5428.5	4695.9	3978.8	3313.5	2673.6	2179.5	1821.7	1592.9	1487.6	1420.3
12.5°	5543.6	5126.8	4186.5	3278.4	2443.4	1694.0	1191.5	906.6	764.9	715.8	691.9
15°	5359.7	4848.9	3705.1	2613.2	1654.7	968.4	651.2	554.4	531.9	531.9	529.1
17.5°	5185.7	4576.6	3240.5	1988.7	1038.5	592.3	495.4	482.8	482.8	488.4	488.4
20°	5018.7	4317.0	2791.4	1427.3	654.0	470.2	447.7	444.9	447.7	454.7	454.7
22.5°	4875.6	4081.2	2371.8	979.6	485.6	423.8	412.6	408.4	409.8	414.0	416.8
25°	4768.9	3881.9	1976.0	663.8	418.2	385.9	373.3	366.3	360.7	360.7	363.5
27.5°	4701.5	3713.5	1592.9	482.8	376.1	350.9	331.2	320.0	307.4	300.3	303.1
30°	4652.4	3553.5	1233.6	394.4	336.8	311.6	286.3	268.1	249.8	241.4	244.2
32.5°	4634.2	3424.4	922.1	348.1	301.7	273.7	242.8	218.9	199.3	192.3	193.7
35°	4683.3	3321.9	675.1	314.4	273.7	238.6	203.5	176.8	161.4	157.2	158.6
37.5°	4812.4	3267.2	505.2	286.3	248.4	209.1	169.8	144.6	134.7	134.7	136.1
40°	5056.6	3265.8	405.6	266.7	226.0	181.0	140.3	122.1	116.5	119.3	120.7
42.5°	5413.1	3340.2	353.7	248.4	206.3	154.4	116.5	103.9	102.5	105.3	106.7
45°	5900.1	3476.3	325.6	233.0	185.3	129.1	98.2	89.8	89.8	94.0	95.4
47.5°	6496.5	3675.6	301.7	217.5	164.2	108.1	84.2	78.6	80.0	84.2	85.6
50°	7215.1	3926.8	277.9	200.7	148.8	89.8	73.0	68.8	70.2	75.8	77.2
52.5°	8033.3	4265.1	258.2	185.3	129.1	74.4	61.8	58.9	61.8	67.4	68.8
55°	8735.0	4568.2	234.4	172.6	103.9	61.8	50.5	50.5	53.3	60.3	61.8
57.5°	9410.1	4885.4	213.3	148.8	81.4	49.1	42.1	43.5	47.7	54.7	56.1
60°	10400.9	5422.9	188.1	124.9	61.8	39.3	35.1	36.5	42.1	49.1	50.5
62.5°	12083.6	6241.1	162.8	103.9	47.7	30.9	28.1	30.9	37.9	46.3	47.7
65°	13602.2	6573.7	133.3	87.0	36.5	23.9	23.9	28.1	36.5	44.9	46.3
67.5°	12755.9	5533.8	103.9	68.8	28.1	18.2	19.6	26.7	35.1	44.9	46.3
69°	11280.9	4524.7	88.4	54.7	23.9	16.8	18.2	26.7	35.1	43.5	44.9
70°	10131.4	3820.2	78.6	46.3	21.1	16.8	18.2	25.3	35.1	43.5	44.9
72.5°	6785.6	2063.1	63.2	33.7	19.6	15.4	15.4	25.3	33.7	42.1	43.5
75°	2916.4	569.8	50.5	23.9	16.8	14.0	14.0	23.9	32.3	40.7	43.5
77.5°	533.3	144.6	40.7	21.1	16.8	14.0	12.6	22.5	30.9	39.3	40.7
80°	211.9	71.6	32.3	18.2	15.4	12.6	11.2	21.1	29.5	37.9	39.3
82.5°	127.7	40.7	26.7	16.8	15.4	11.2	9.8	18.2	28.1	36.5	37.9
85°	103.9	28.1	21.1	16.8	14.0	11.2	8.4	16.8	25.3	35.1	36.5
87.5°	50.5	19.6	19.6	15.4	14.0	11.2	8.4	15.4	23.9	33.7	35.1
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)