

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: P194545

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL4-7060-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27608 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 295
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

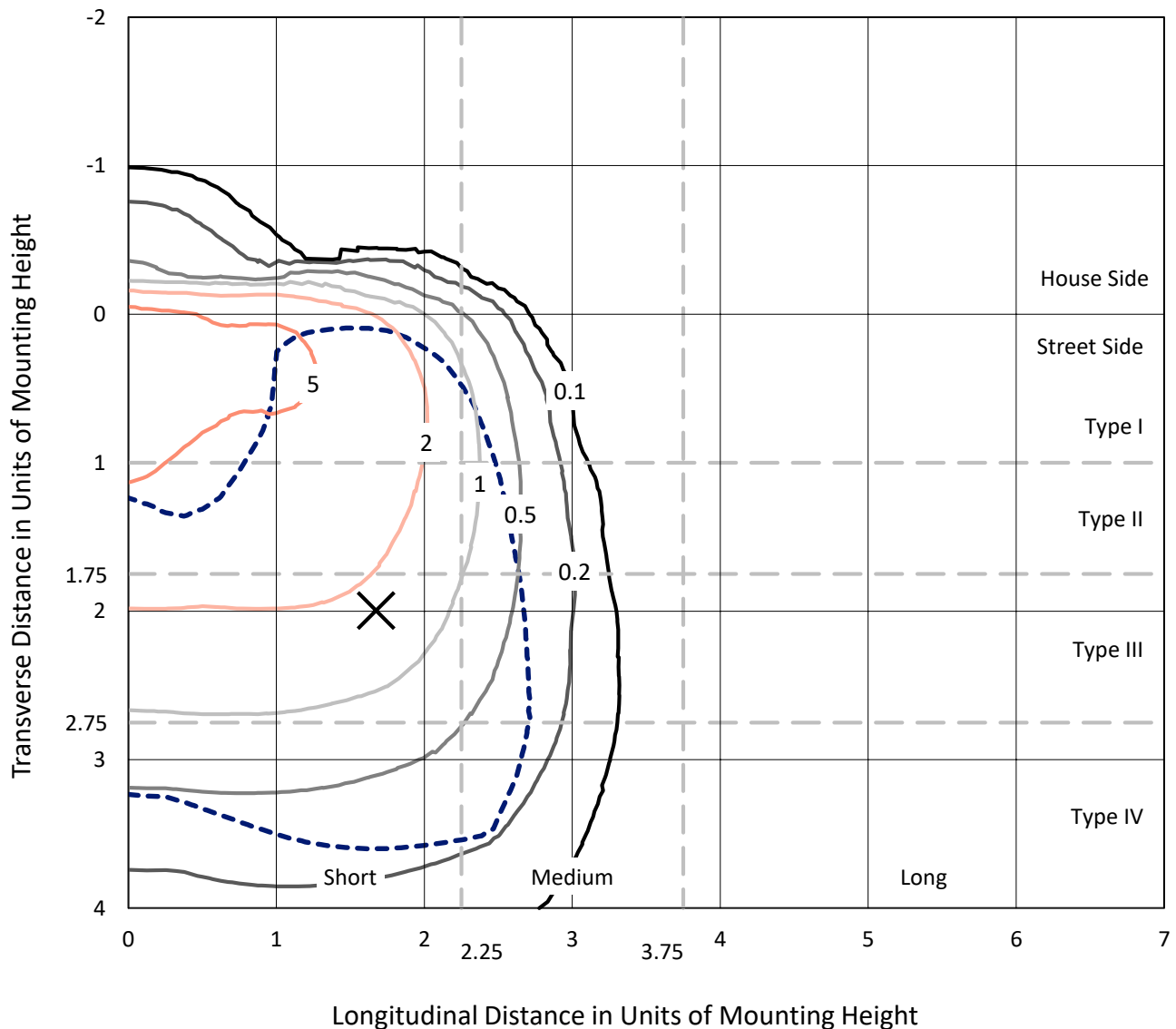


REPORT NUMBER: P194545

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-7060-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

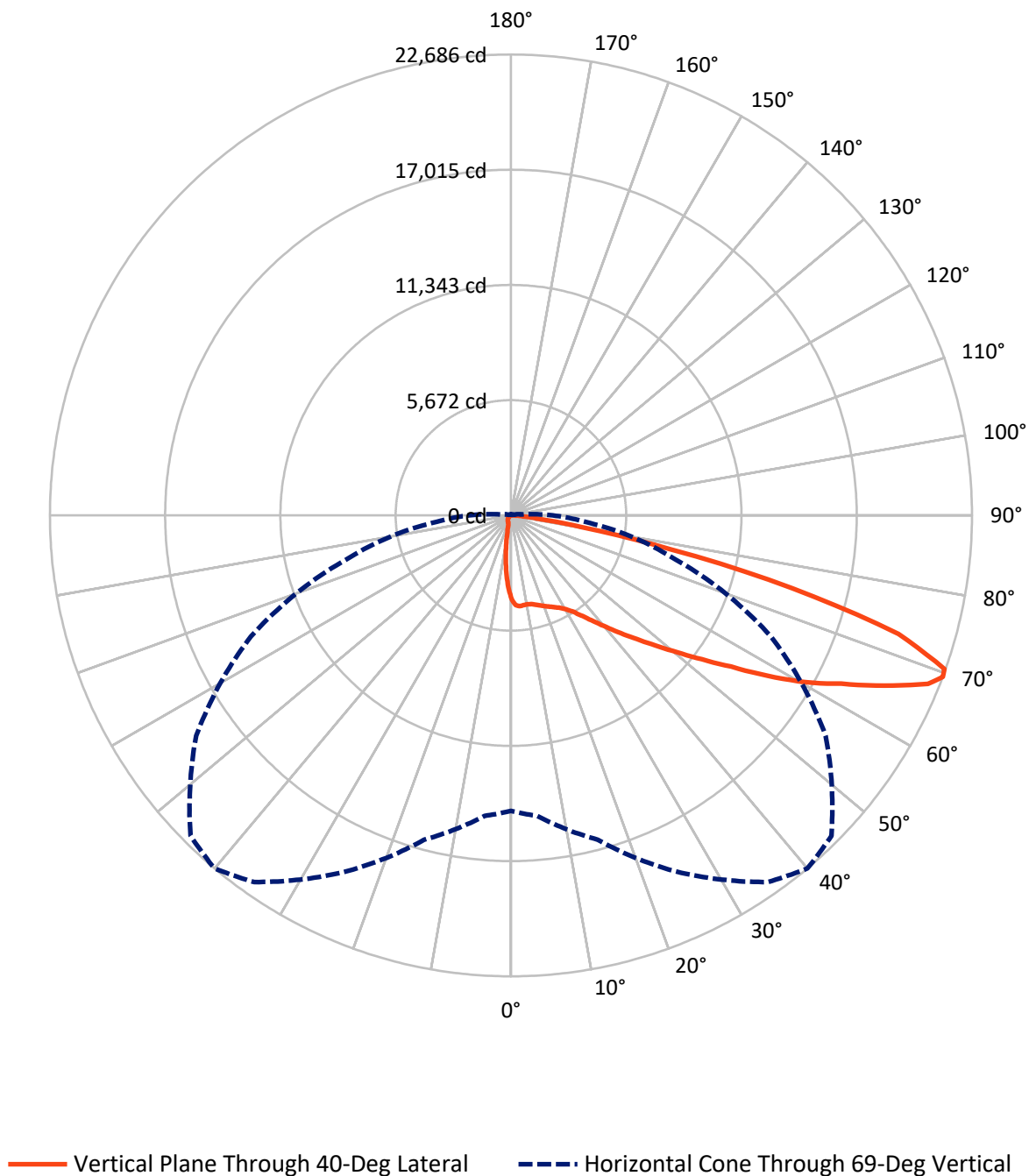


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P194545

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-7060-800-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P194545

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-7060-800-HSS

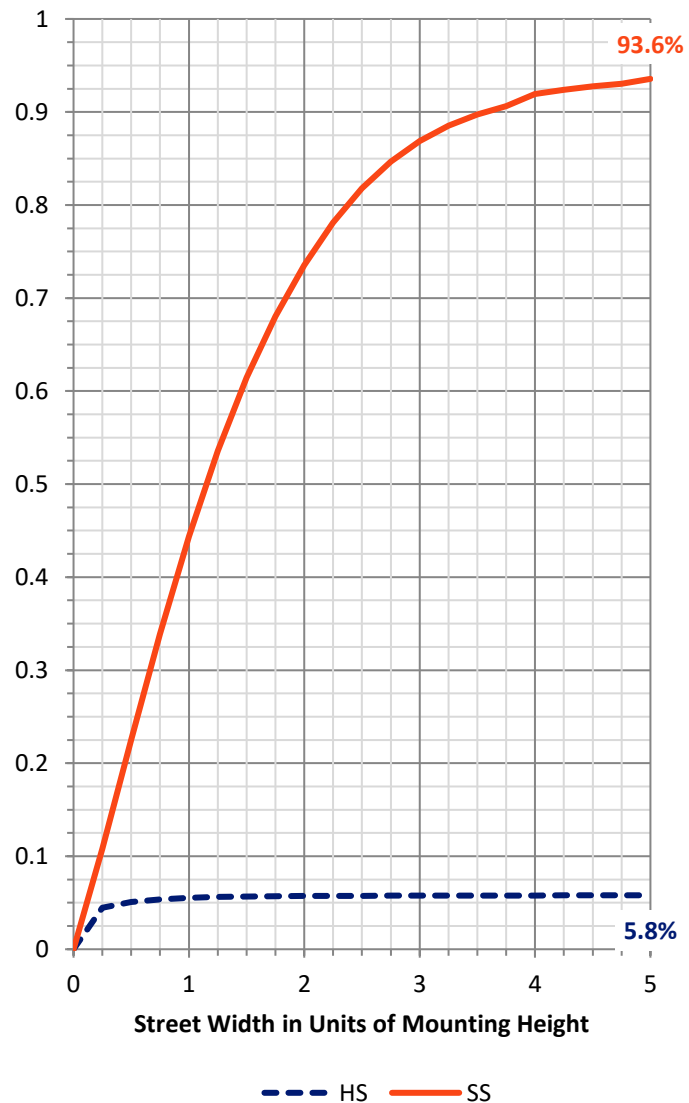
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.2	0.0	1615.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	25992.8	0.0	25992.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	27608.0	0.0	27608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	1.2
10°-20°	822.4	3.0
20°-30°	1385.3	5.0
30°-40°	2267.7	8.2
40°-50°	3926.5	14.2
50°-60°	6184.7	22.4
60°-70°	8076.9	29.3
70°-80°	4160.0	15.1
80°-90°	450.0	1.6
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°	27608.0	100.0
0°-180°	27608.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194545

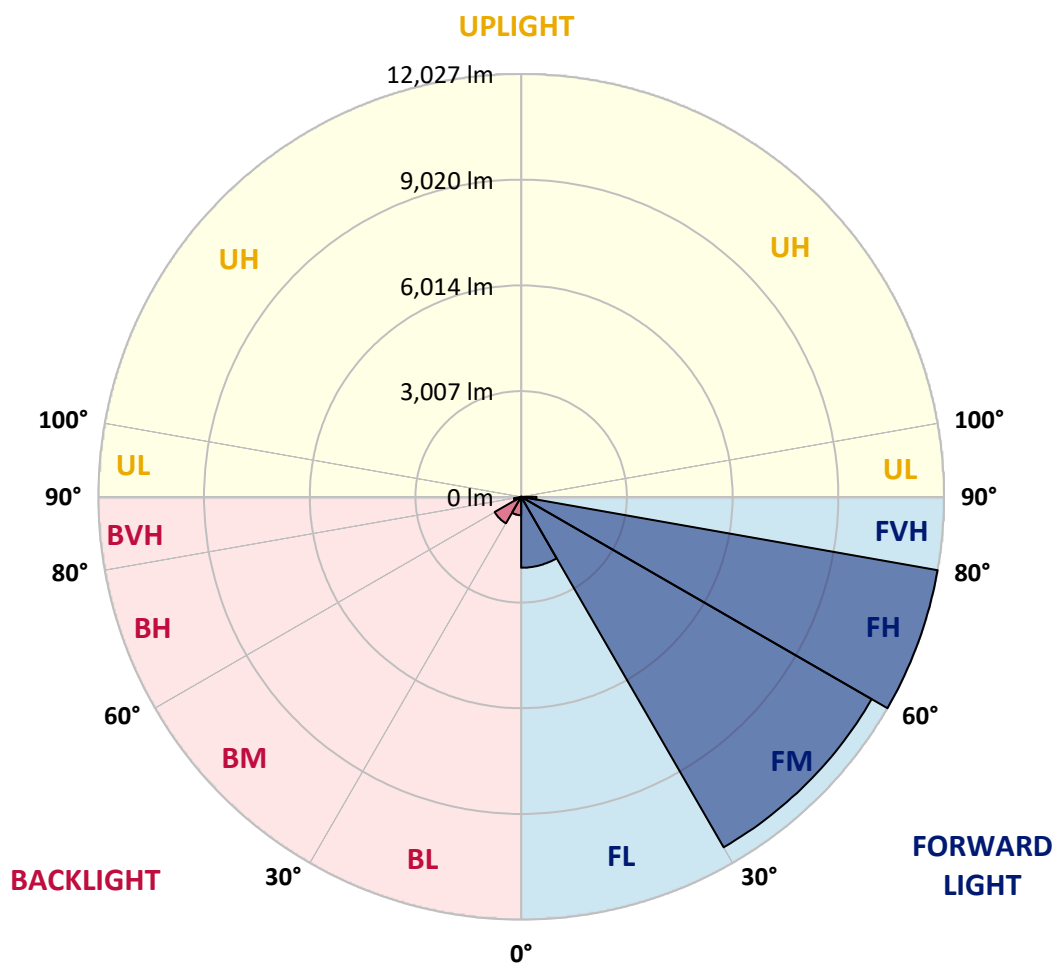
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2018.9	7.3			
FM	(30°-60°)	11510.8	41.7			
FH	(60°-80°)	12027.2	43.6			G5
FVH	(80°-90°)	435.9	1.6			G3/500
BL	(0°-30°)	523.2	1.9	B2/1000		
BM	(30°-60°)	868.1	3.1	B1/1000		
BH	(60°-80°)	209.7	0.8	B1/500		G1/500
BVH	(80°-90°)	14.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P194545

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-7060-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8
2.5°	4529.0	4504.4	4489.6	4469.9	4445.2	4423.9	4415.6	4354.8	4297.3	4218.4	4128.1
5°	4612.8	4604.6	4578.3	4552.0	4522.5	4489.6	4471.5	4399.2	4317.0	4202.0	4044.3
7.5°	4621.1	4611.2	4578.3	4542.2	4501.1	4461.7	4430.4	4358.1	4282.5	4165.9	3973.6
10°	4607.9	4596.4	4571.8	4532.3	4481.4	4443.6	4412.4	4343.3	4279.3	4174.1	3960.4
12.5°	4593.1	4581.6	4570.1	4550.4	4506.0	4479.7	4453.4	4387.7	4330.2	4241.5	4008.1
15°	4607.9	4601.3	4614.5	4606.3	4581.6	4558.6	4532.3	4473.2	4420.6	4346.6	4095.2
17.5°	4670.4	4670.4	4711.4	4716.4	4693.4	4660.5	4622.7	4563.5	4519.2	4456.7	4198.7
20°	4816.6	4811.7	4864.3	4874.1	4818.3	4767.3	4711.4	4639.1	4604.6	4565.2	4300.6
22.5°	5068.1	5045.0	5076.3	5066.4	4956.3	4877.4	4808.4	4719.7	4701.6	4683.5	4414.0
25°	5395.1	5381.9	5403.3	5306.3	5112.4	5005.6	4923.4	4823.2	4823.2	4841.3	4542.2
27.5°	5870.0	5820.7	5748.4	5577.5	5286.6	5150.2	5061.5	4954.7	4982.6	5050.0	4711.4
30°	6356.4	6302.2	6136.2	5873.3	5498.6	5355.6	5252.1	5140.4	5206.1	5329.3	4938.2
32.5°	6836.3	6775.5	6540.5	6208.5	5802.6	5659.7	5559.4	5436.2	5546.3	5753.3	5270.2
35°	7301.3	7247.1	6976.0	6584.9	6206.9	6088.6	5996.5	5889.7	6031.0	6320.3	5738.5
37.5°	7823.9	7764.8	7434.5	7010.5	6698.2	6612.8	6545.4	6438.6	6685.1	7109.1	6390.9
40°	8466.5	8366.2	7920.9	7498.5	7266.8	7225.8	7179.7	7165.0	7547.8	8134.5	7260.3
42.5°	9202.7	9038.4	8430.3	8012.9	7891.3	7920.9	7909.4	7975.1	8627.5	9409.8	8318.6
45°	9938.9	9726.9	8997.3	8561.8	8578.2	8681.8	8745.8	9008.8	9980.0	10872.3	9457.4
47.5°	10563.4	10354.7	9541.2	9155.0	9352.2	9556.0	9730.2	10228.1	11370.3	12311.9	10343.2
50°	11097.5	10900.3	10118.0	9807.4	10251.1	10579.8	10862.5	11600.3	12865.7	13408.0	10964.3
52.5°	11534.6	11403.1	10716.2	10555.2	11278.2	11759.7	12173.8	13058.0	14190.2	14298.7	11447.5
55°	11960.2	11866.5	11358.7	11444.2	12484.4	13140.1	13664.4	14604.3	15330.7	15041.5	11910.9
57.5°	12449.9	12364.5	12091.7	12571.5	14070.3	14895.2	15467.1	15974.9	16334.8	15800.7	12348.0
60°	12949.5	12900.2	12906.8	13823.8	15891.1	16683.2	16998.7	17130.2	17320.8	16515.5	12372.7
62.5°	13426.1	13519.7	13838.5	15217.3	17634.7	18242.7	18402.1	18531.9	18308.4	16628.9	11431.1
65°	14232.9	14385.8	15146.6	17082.5	19552.4	20203.2	20367.5	19922.2	18464.5	15163.1	9298.0
67.5°	14627.3	14906.7	16264.1	18821.1	21412.7	22135.8	22075.0	20012.6	16569.8	11562.5	5967.0
69°	14545.2	14842.6	16522.1	19353.6	22030.6	22686.3	22300.1	18906.6	14116.3	8376.1	3663.0
70°	14219.8	14520.5	16389.0	19333.9	22109.5	22628.8	21882.7	17541.0	11935.6	6124.7	2290.8
72.5°	11874.8	12134.4	14550.1	17475.3	20367.5	19945.2	18306.8	12152.5	5815.8	1668.0	516.0
75°	7309.6	7454.2	10440.1	13164.8	15383.3	14298.7	12196.9	6045.8	1733.7	471.6	285.9
77.5°	3861.8	3927.6	5715.5	7759.8	9751.6	8068.8	6251.3	2358.2	798.7	295.8	207.1
80°	2282.6	2331.9	3078.0	3548.0	4220.1	3525.0	2499.5	1447.8	571.9	185.7	184.1
82.5°	1306.5	1337.7	2231.7	1972.0	1663.1	1419.8	1244.0	1372.2	343.5	124.9	190.6
85°	479.9	486.4	1255.5	1500.4	989.3	588.3	617.9	1137.2	92.0	78.9	149.5
87.5°	223.5	218.6	645.8	918.6	578.5	373.0	481.5	249.8	36.2	50.9	41.1
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: P194545

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-7060-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8	4124.8
2.5°	4075.5	4014.7	3904.6	3791.2	3676.1	3587.4	3500.3	3431.3	3408.3	3365.6	3368.8
5°	3950.6	3838.8	3608.8	3375.4	3132.2	2931.7	2742.7	2589.9	2515.9	2440.4	2440.4
7.5°	3842.1	3679.4	3319.5	2939.9	2547.2	2216.9	1919.4	1695.9	1572.7	1474.1	1472.4
10°	3801.0	3580.8	3078.0	2534.0	1986.8	1536.5	1183.2	956.4	839.7	764.2	760.9
12.5°	3819.1	3546.3	2892.3	2159.3	1472.4	987.6	685.3	539.0	489.7	466.7	466.7
15°	3871.7	3536.5	2706.6	1792.9	1040.2	617.9	455.2	415.8	412.5	412.5	412.5
17.5°	3935.8	3539.7	2515.9	1436.3	708.3	442.1	392.8	387.8	391.1	391.1	391.1
20°	4001.5	3541.4	2310.5	1106.0	499.6	384.5	369.8	368.1	371.4	371.4	373.0
22.5°	4082.1	3549.6	2105.1	826.6	412.5	363.2	351.7	351.7	353.3	353.3	351.7
25°	4174.1	3566.0	1891.5	613.0	376.3	348.4	338.5	336.9	338.5	336.9	335.2
27.5°	4289.1	3589.0	1653.2	479.9	359.9	333.6	325.4	325.4	323.7	322.1	320.5
30°	4433.7	3615.3	1385.3	407.5	343.5	320.5	312.2	310.6	308.9	305.7	305.7
32.5°	4653.9	3672.9	1120.8	369.8	325.4	302.4	295.8	295.8	292.5	289.2	287.6
35°	4992.5	3786.2	884.1	346.7	305.7	282.7	274.4	274.4	271.2	269.5	267.9
37.5°	5460.8	3958.8	686.9	325.4	285.9	261.3	253.1	251.4	248.1	244.9	243.2
40°	6083.6	4172.4	540.7	305.7	266.2	239.9	233.4	230.1	223.5	218.6	218.6
42.5°	6865.9	4415.6	438.8	284.3	243.2	220.2	215.3	210.3	198.8	193.9	192.3
45°	7684.2	4634.2	371.4	259.6	220.2	200.5	197.2	189.0	174.2	169.3	169.3
47.5°	8274.2	4685.2	327.0	236.6	198.8	179.1	177.5	162.7	149.5	146.3	144.6
50°	8642.3	4584.9	290.9	213.6	179.1	159.4	154.5	136.4	128.2	124.9	123.3
52.5°	8890.5	4405.8	261.3	193.9	161.0	141.3	129.8	116.7	110.1	106.8	106.8
55°	9089.3	4152.7	231.7	175.8	146.3	126.5	110.1	100.2	93.7	90.4	90.4
57.5°	9145.2	3809.3	202.1	161.0	131.5	111.7	93.7	87.1	78.9	77.2	77.2
60°	8739.3	3189.7	179.1	143.0	118.3	97.0	82.2	74.0	65.7	64.1	62.4
62.5°	7669.5	2468.3	157.8	126.5	103.5	83.8	70.7	60.8	54.2	54.2	54.2
65°	5850.3	1654.8	138.0	110.1	90.4	70.7	60.8	49.3	46.0	46.0	47.7
67.5°	3502.0	900.5	118.3	93.7	77.2	59.2	50.9	42.7	41.1	42.7	42.7
69°	2052.5	529.2	106.8	83.8	67.4	52.6	44.4	37.8	41.1	42.7	42.7
70°	1267.0	356.6	98.6	75.6	60.8	47.7	41.1	36.2	39.4	41.1	41.1
72.5°	353.3	184.1	78.9	59.2	49.3	39.4	32.9	32.9	37.8	39.4	39.4
75°	230.1	136.4	60.8	44.4	37.8	31.2	27.9	31.2	36.2	37.8	37.8
77.5°	190.6	111.7	49.3	36.2	31.2	29.6	26.3	27.9	32.9	34.5	34.5
80°	174.2	78.9	39.4	32.9	27.9	26.3	24.7	23.0	29.6	31.2	31.2
82.5°	166.0	62.4	34.5	29.6	26.3	23.0	21.4	23.0	26.3	27.9	29.6
85°	103.5	41.1	31.2	27.9	23.0	21.4	21.4	21.4	24.7	26.3	26.3
87.5°	37.8	32.9	27.9	23.0	19.7	19.7	19.7	19.7	21.4	24.7	24.7
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)