

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: P191134

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191134  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 31113 lumens  
Efficiency: N/A  
Efficacy: 93.4 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 - G5

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

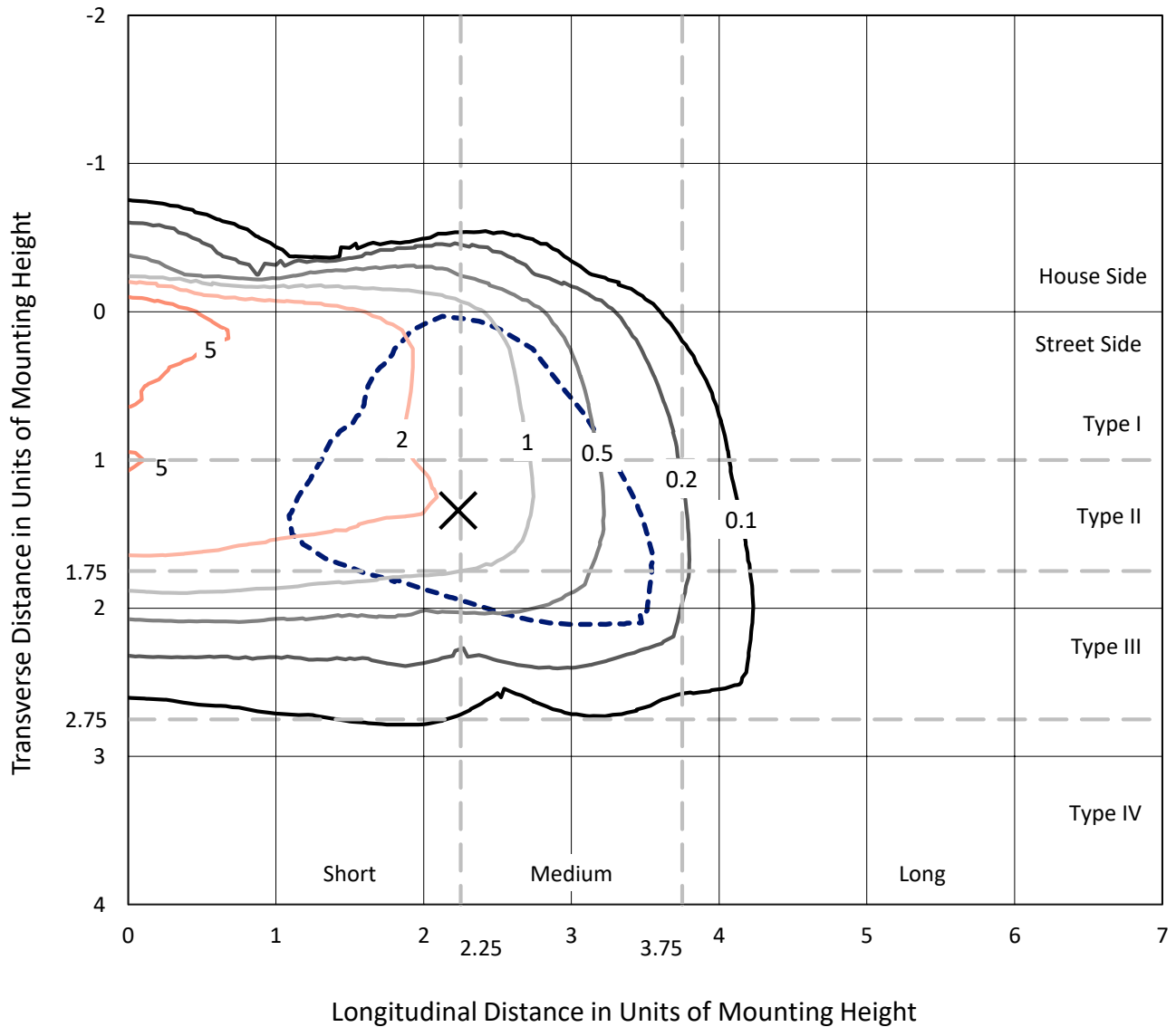


REPORT NUMBER: P191134

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

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

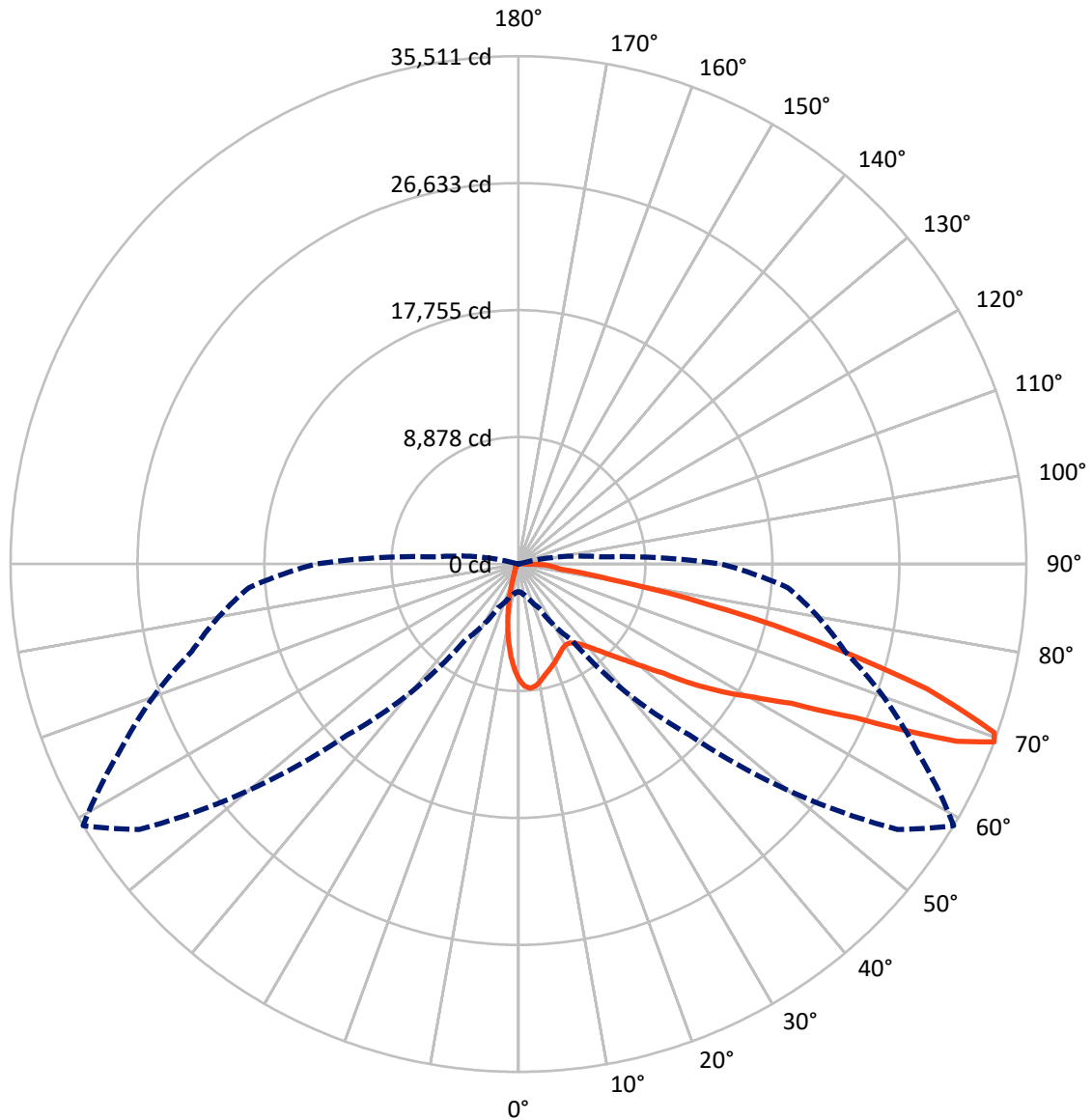


Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191134

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

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191134

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

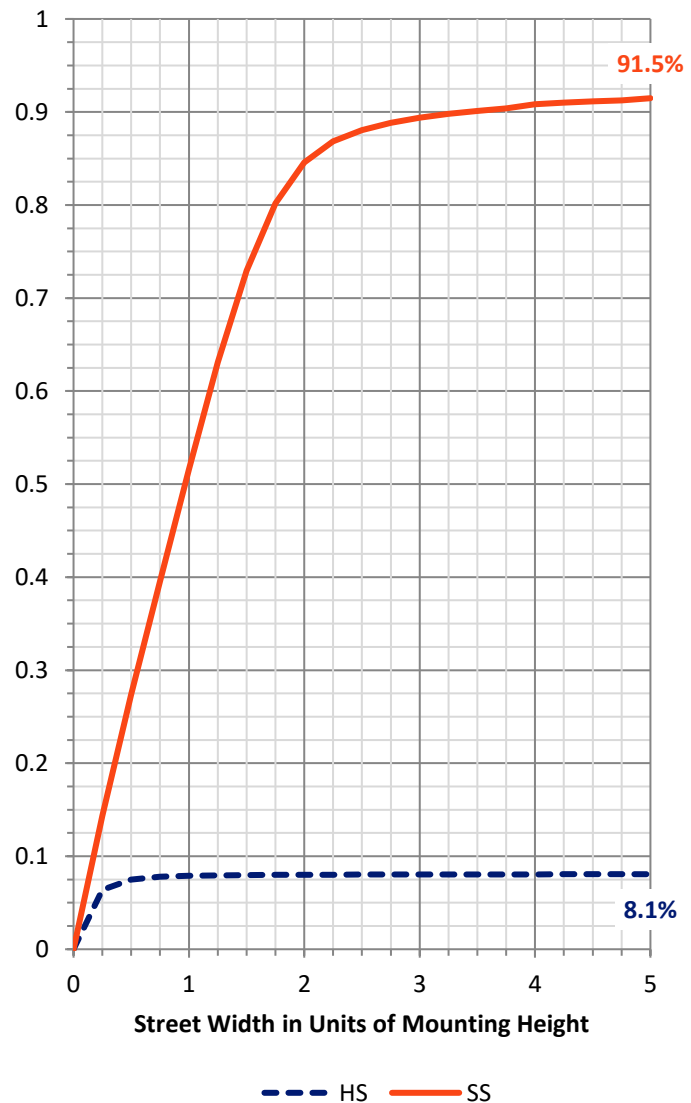
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2533.7	0.0	2533.7
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	28579.3	0.0	28579.3
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	31113.0	0.0	31113.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.3	2.1
10°-20°	1358.2	4.4
20°-30°	1827.7	5.9
30°-40°	2653.7	8.5
40°-50°	4418.6	14.2
50°-60°	6893.0	22.2
60°-70°	8529.5	27.4
70°-80°	4322.7	13.9
80°-90°	452.3	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°	31113.0	100.0
0°-180°	31113.0	100.0



REPORT NUMBER: P191134

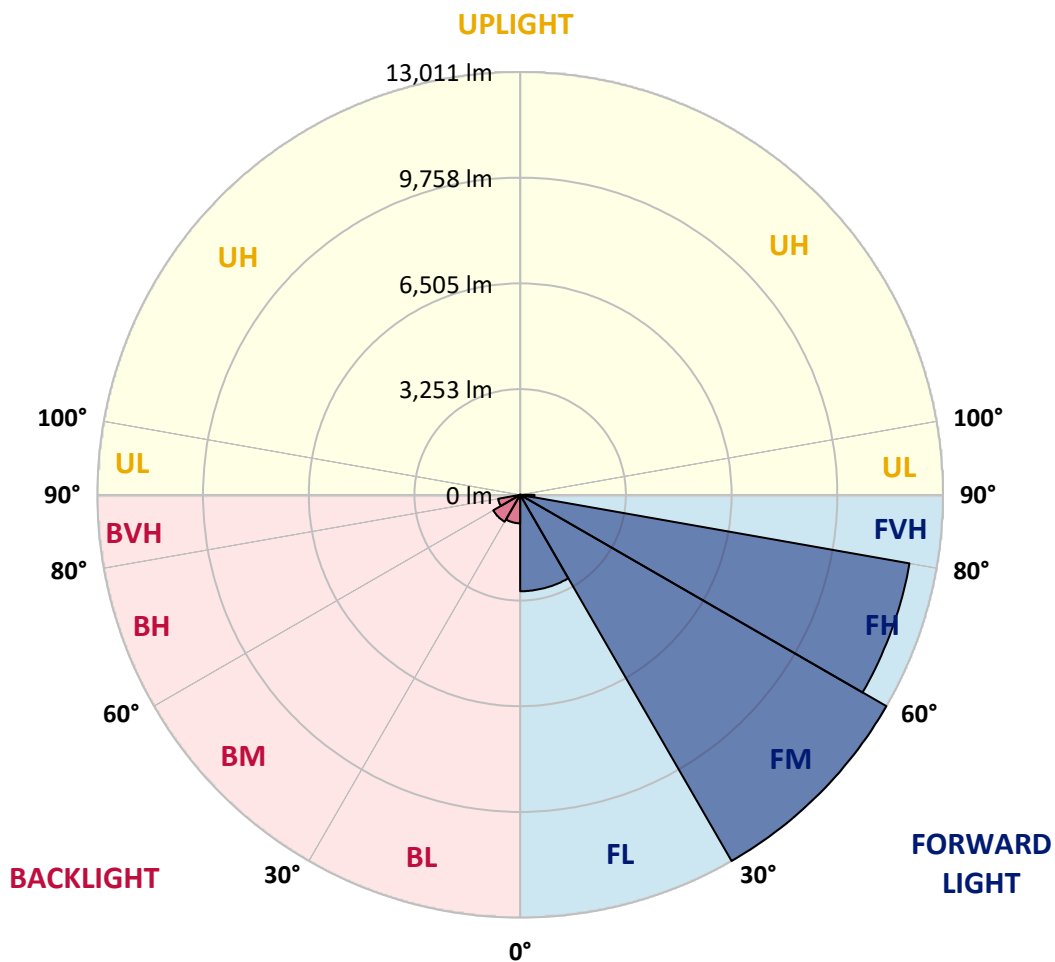
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2966.3	9.5			
FM	(30°-60°)	13010.6	41.8			
FH	(60°-80°)	12164.1	39.1			G5
FVH	(80°-90°)	438.4	1.4			G3/500
BL	(0°-30°)	877.0	2.8	B2/1000		
BM	(30°-60°)	954.7	3.1	B1/1000		
BH	(60°-80°)	688.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	13.9	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-G5**

Type III Short





REPORT NUMBER: P191134

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3
2.5°	8875.9	8872.5	8833.7	8816.1	8784.5	8717.6	8613.8	8559.2	8471.3	8318.2	8112.4
5°	8795.0	8837.3	8860.1	8861.8	8884.7	8860.1	8766.9	8721.1	8599.7	8353.4	7983.9
7.5°	8246.1	8262.0	8327.0	8383.3	8492.4	8596.2	8629.6	8610.3	8538.2	8274.2	7783.3
10°	7658.4	7674.3	7751.7	7825.6	7973.4	8133.5	8302.4	8337.6	8367.4	8161.6	7589.9
12.5°	7151.8	7167.6	7246.8	7343.6	7515.9	7713.0	7975.1	8033.2	8165.2	8054.3	7435.0
15°	6715.5	6722.5	6799.9	6919.5	7125.4	7378.7	7676.0	7769.3	7971.7	7978.7	7299.6
17.5°	6344.2	6361.8	6409.3	6523.7	6748.9	7062.0	7408.6	7542.3	7779.8	7915.3	7167.6
20°	6117.2	6134.8	6133.1	6196.4	6398.8	6733.1	7141.2	7301.3	7589.9	7850.2	7049.8
22.5°	6073.3	6073.3	6027.5	6018.7	6138.4	6418.1	6863.2	7058.6	7419.2	7822.1	6967.0
25°	6229.9	6222.8	6108.4	6015.3	6020.5	6187.6	6594.0	6826.3	7274.9	7841.4	6923.0
27.5°	6560.6	6551.8	6407.6	6229.9	6087.4	6085.6	6390.0	6639.8	7160.6	7932.9	6940.6
30°	7018.1	7014.6	6858.0	6634.6	6375.8	6138.4	6319.6	6546.6	7086.7	8098.3	6981.1
32.5°	7517.7	7512.4	7394.6	7158.8	6831.6	6375.8	6393.4	6583.5	7107.8	8318.2	7079.6
35°	8047.2	8038.4	7987.5	7781.6	7421.0	6814.0	6636.3	6784.1	7241.5	8647.2	7273.2
37.5°	8620.8	8629.6	8666.5	8469.5	8091.2	7428.0	7042.7	7143.0	7510.7	9094.1	7588.0
40°	9467.1	9465.4	9477.6	9219.0	8854.9	8179.2	7611.0	7642.7	7961.1	9687.0	8066.6
42.5°	11003.0	10895.7	10570.2	10042.4	9676.4	9037.8	8327.0	8293.6	8511.8	10420.6	8736.9
45°	13066.7	12838.0	11993.5	10981.9	10513.9	10005.5	9208.4	9101.1	9240.1	11302.1	9563.9
47.5°	14841.9	14604.4	13409.8	11960.0	11402.3	10923.8	10241.2	10047.6	10093.4	12289.1	10612.4
50°	15445.3	15329.2	14285.9	12811.6	12262.7	12079.7	11439.4	11203.6	11138.5	13430.9	11828.1
52.5°	15236.0	15227.2	14532.2	13364.0	13050.9	13276.1	12947.1	12674.4	12435.1	14634.3	13064.9
55°	14900.0	14944.0	14632.5	13847.9	13837.3	14368.7	15009.0	14782.0	14088.9	15941.5	14131.1
57.5°	13972.8	14161.0	14576.2	14762.7	15195.5	15739.1	16726.2	16859.9	16040.0	16942.5	15016.1
60°	11337.3	11750.7	13108.9	14894.7	16946.1	18300.8	18798.7	18913.0	17641.0	17774.7	16210.7
62.5°	8047.2	8469.5	10192.0	13212.7	16972.5	21666.4	21886.3	21437.7	19403.8	19008.1	18270.8
65°	4271.7	4597.1	6004.6	9537.5	14715.2	22447.5	27285.8	25948.7	22514.4	21434.2	20932.7
67.5°	2185.1	2283.6	2843.1	4667.5	10116.3	19938.7	32125.8	33067.0	27875.2	23841.0	20804.4
69°	1933.5	1991.6	2362.8	3374.4	6477.9	16888.0	32361.6	35510.7	30681.4	23640.4	18906.0
70°	1872.0	1922.9	2260.7	3054.2	5063.4	14162.8	31459.0	35296.1	31399.2	22876.9	17488.0
72.5°	1588.7	1632.6	2012.7	2698.9	4115.1	7030.3	25554.5	29908.9	28176.1	19057.3	12658.5
75°	1062.6	1206.9	1931.7	2530.0	3828.4	3993.7	16847.6	21613.6	20077.8	12853.8	6594.0
77.5°	255.1	274.5	545.4	2012.7	3501.2	3515.2	8664.8	13436.2	10959.0	4581.4	1558.8
80°	137.3	132.0	153.0	399.4	3260.0	3298.8	3900.5	6521.9	3912.8	760.1	513.7
82.5°	96.8	91.5	98.5	167.2	1025.7	3005.0	2822.0	2952.2	1622.1	292.1	230.5
85°	35.2	33.5	54.5	151.3	321.9	1727.7	2899.5	2434.9	1314.2	133.7	168.9
87.5°	12.3	10.5	21.1	82.7	98.5	735.4	1789.2	1840.3	517.2	80.9	79.2
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: P191134

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3	8098.3
2.5°	8026.2	7917.1	7716.5	7510.7	7320.6	7091.9	6977.5	6865.0	6817.5	6799.9	6717.2
5°	7794.0	7609.2	7183.5	6755.9	6361.8	5943.1	5666.8	5445.2	5315.0	5251.6	5151.4
7.5°	7496.6	7194.0	6548.3	5888.5	5274.5	4669.4	4220.7	3875.9	3638.3	3524.0	3420.1
10°	7208.0	6805.2	5886.8	4987.8	4153.8	3351.6	2732.3	2283.6	1996.9	1864.9	1780.4
12.5°	6949.4	6426.9	5248.1	4109.8	3063.0	2123.5	1493.7	1136.5	958.8	897.2	867.4
15°	6718.9	6078.6	4644.7	3275.9	2074.2	1213.9	816.3	695.0	666.8	666.8	663.3
17.5°	6500.9	5737.2	4062.3	2493.0	1301.9	742.5	621.0	605.2	605.2	612.2	612.2
20°	6291.5	5411.7	3499.3	1789.2	819.9	589.4	561.2	557.7	561.2	570.0	570.0
22.5°	6112.0	5116.2	2973.3	1228.1	608.8	531.3	517.2	512.0	513.7	519.0	522.5
25°	5978.2	4866.4	2477.2	832.2	524.3	483.9	468.0	459.2	452.1	452.1	455.6
27.5°	5893.8	4655.2	1996.9	605.2	471.5	439.9	415.2	401.1	385.3	376.5	380.0
30°	5832.3	4454.6	1546.5	494.4	422.3	390.6	359.0	336.0	313.1	302.6	306.2
32.5°	5809.3	4292.8	1155.9	436.3	378.3	343.1	304.3	274.5	249.8	241.0	242.7
35°	5870.9	4164.4	846.3	394.1	343.1	299.1	255.1	221.7	202.3	197.0	198.8
37.5°	6032.9	4095.8	633.4	359.0	311.4	262.2	212.9	181.2	168.9	168.9	170.6
40°	6338.9	4094.1	508.4	334.3	283.3	227.0	175.9	153.0	146.0	149.6	151.3
42.5°	6785.8	4187.2	443.3	311.4	258.6	193.5	146.0	130.2	128.5	132.0	133.7
45°	7396.3	4357.9	408.2	292.1	232.2	161.8	123.2	112.6	112.6	117.8	119.7
47.5°	8144.0	4607.8	378.3	272.7	205.8	135.4	105.6	98.5	100.2	105.6	107.3
50°	9044.8	4922.6	348.3	251.5	186.5	112.6	91.5	86.2	88.0	95.0	96.8
52.5°	10070.5	5346.7	323.8	232.2	161.8	93.3	77.4	73.9	77.4	84.5	86.2
55°	10950.2	5726.7	293.8	216.4	130.2	77.4	63.3	63.3	66.9	75.7	77.4
57.5°	11796.5	6124.3	267.4	186.5	102.1	61.6	52.8	54.5	59.8	68.6	70.4
60°	13038.5	6798.1	235.8	156.6	77.4	49.3	44.0	45.7	52.8	61.6	63.3
62.5°	15148.1	7823.8	204.1	130.2	59.8	38.7	35.2	38.7	47.5	58.1	59.8
65°	17051.7	8240.8	167.2	109.0	45.7	29.9	29.9	35.2	45.7	56.3	58.1
67.5°	15990.8	6937.1	130.2	86.2	35.2	22.9	24.7	33.5	44.0	56.3	58.1
69°	14141.7	5672.2	110.9	68.6	29.9	21.1	22.9	33.5	44.0	54.5	56.3
70°	12700.8	4788.9	98.5	58.1	26.4	21.1	22.9	31.7	44.0	54.5	56.3
72.5°	8506.4	2586.2	79.2	42.2	24.7	19.3	19.3	31.7	42.2	52.8	54.5
75°	3655.9	714.3	63.3	29.9	21.1	17.6	17.6	29.9	40.5	51.0	54.5
77.5°	668.6	181.2	51.0	26.4	21.1	17.6	15.9	28.1	38.7	49.3	51.0
80°	265.7	89.7	40.5	22.9	19.3	15.9	14.1	26.4	36.9	47.5	49.3
82.5°	160.1	51.0	33.5	21.1	19.3	14.1	12.3	22.9	35.2	45.7	47.5
85°	130.2	35.2	26.4	21.1	17.6	14.1	10.5	21.1	31.7	44.0	45.7
87.5°	63.3	24.7	24.7	19.3	17.6	14.1	10.5	19.3	29.9	42.2	44.0
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)