

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: P191206

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191206
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-08-LED-E1-SL4-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 32000 lumens
Efficiency: N/A
Efficacy: 95.8 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

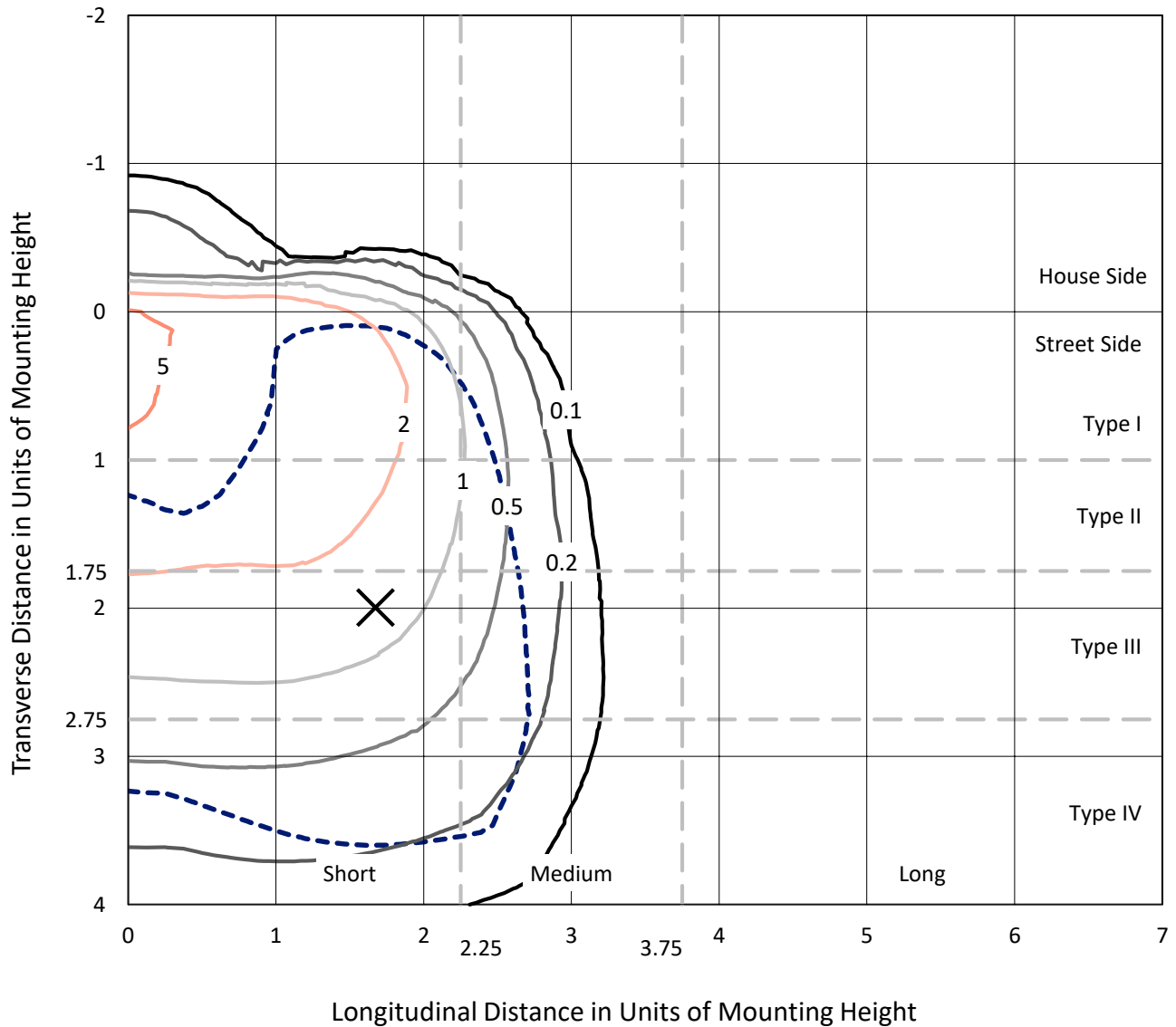
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191206
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

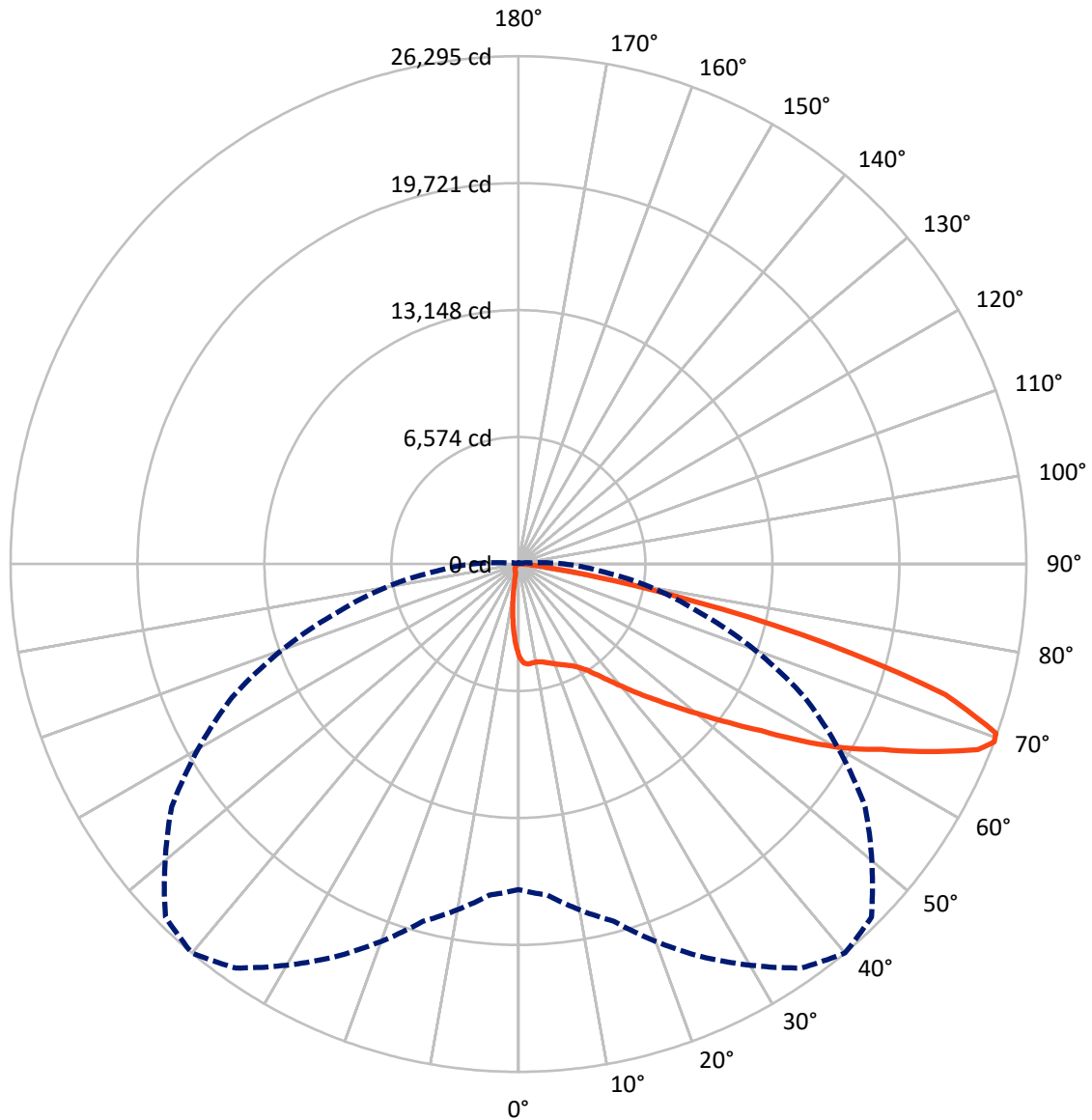
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191206
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P191206

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-800-HSS

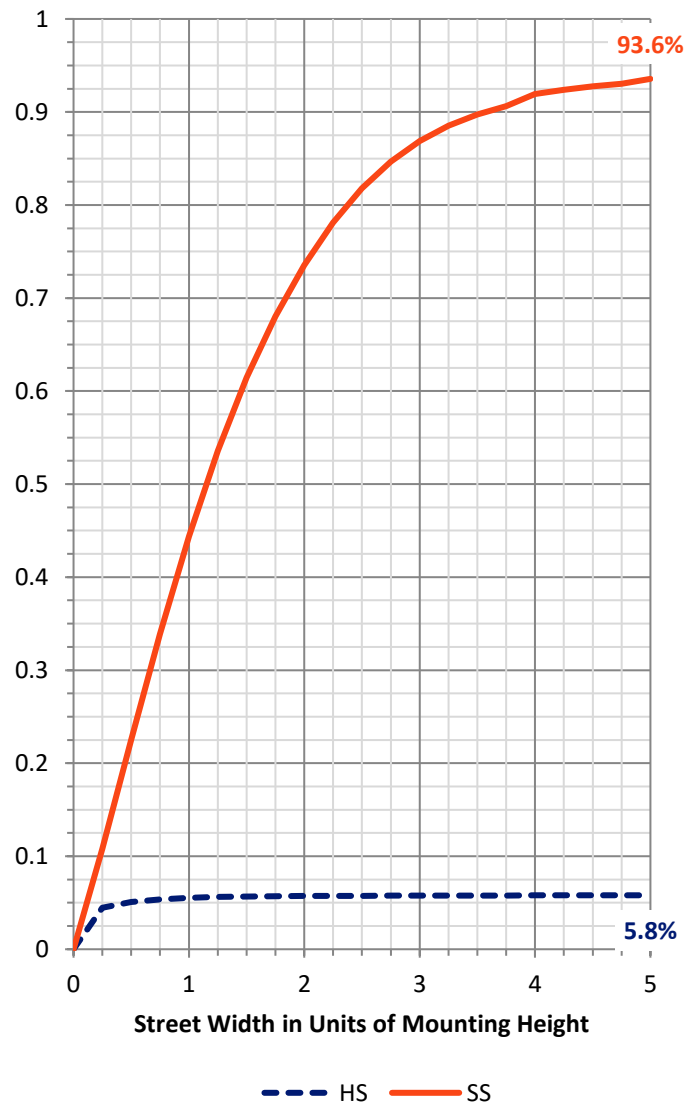
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1872.2	0.0	1872.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	30127.8	0.0	30127.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	32000.0	0.0	32000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	1.2
10°-20°	953.3	3.0
20°-30°	1605.7	5.0
30°-40°	2628.5	8.2
40°-50°	4551.2	14.2
50°-60°	7168.5	22.4
60°-70°	9361.8	29.3
70°-80°	4821.8	15.1
80°-90°	521.6	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°	32000.0	100.0
0°-180°	32000.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191206

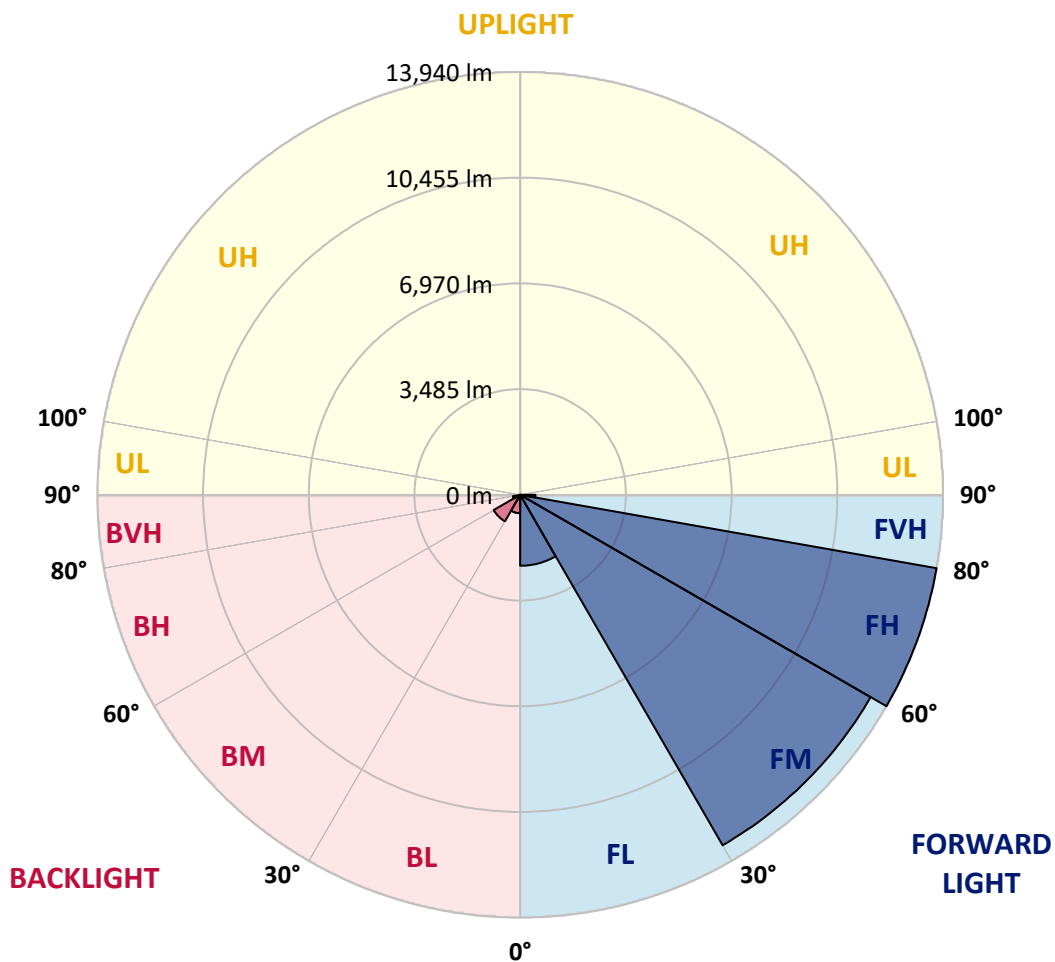
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2340.1	7.3			
FM	(30°-60°)	13342.0	41.7			
FH	(60°-80°)	13940.5	43.6			G5
FVH	(80°-90°)	505.2	1.6			G4/750
BL	(0°-30°)	606.5	1.9	B2/1000		
BM	(30°-60°)	1006.2	3.1	B2/2500		
BH	(60°-80°)	243.1	0.8	B1/500		G1/500
BVH	(80°-90°)	16.4	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: P191206

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0
2.5°	5249.6	5220.9	5203.9	5180.9	5152.4	5127.6	5118.1	5047.6	4981.0	4889.5	4784.8
5°	5346.7	5337.1	5306.7	5276.2	5241.9	5203.9	5182.9	5099.1	5003.8	4870.5	4687.7
7.5°	5356.2	5344.8	5306.7	5264.7	5217.2	5171.4	5135.2	5051.4	4963.8	4828.5	4605.7
10°	5340.9	5327.6	5299.1	5253.4	5194.3	5150.5	5114.2	5034.2	4960.0	4838.1	4590.5
12.5°	5323.8	5310.4	5297.1	5274.3	5222.9	5192.4	5161.9	5085.7	5019.0	4916.2	4645.7
15°	5340.9	5333.4	5348.6	5339.1	5310.4	5283.8	5253.4	5184.7	5123.9	5038.1	4746.7
17.5°	5413.4	5413.4	5460.9	5466.6	5440.1	5401.9	5358.1	5289.6	5238.1	5165.7	4866.7
20°	5582.9	5577.1	5638.1	5649.6	5584.8	5525.7	5460.9	5377.1	5337.1	5291.4	4984.7
22.5°	5874.3	5847.6	5883.8	5872.4	5744.8	5653.3	5573.3	5470.4	5449.6	5428.6	5116.2
25°	6253.3	6238.1	6262.8	6150.5	5925.7	5801.9	5706.6	5590.5	5590.5	5611.4	5264.7
27.5°	6803.9	6746.7	6662.9	6464.7	6127.6	5969.5	5866.6	5742.8	5775.3	5853.3	5460.9
30°	7367.6	7304.8	7112.4	6807.6	6373.3	6207.7	6087.6	5958.1	6034.3	6177.2	5723.8
32.5°	7923.8	7853.3	7581.0	7196.2	6725.7	6560.0	6443.8	6301.0	6428.5	6668.6	6108.6
35°	8462.9	8400.0	8085.7	7632.3	7194.3	7057.1	6950.4	6826.7	6990.4	7325.8	6651.4
37.5°	9068.6	9000.0	8617.1	8125.7	7763.8	7664.8	7586.7	7462.8	7748.5	8240.0	7407.6
40°	9813.4	9697.2	9181.0	8691.4	8422.9	8375.2	8321.9	8304.7	8748.6	9428.5	8415.2
42.5°	10666.7	10476.2	9771.4	9287.7	9146.7	9181.0	9167.6	9243.8	10000.0	10906.7	9641.9
45°	11520.0	11274.2	10428.6	9923.9	9942.9	10062.9	10137.1	10441.9	11567.6	12601.9	10961.9
47.5°	12243.8	12001.9	11059.0	10611.5	10840.0	11076.2	11278.1	11855.3	13179.1	14270.5	11988.6
50°	12862.9	12634.3	11727.6	11367.6	11881.9	12262.8	12590.5	13445.8	14912.4	15541.0	12708.6
52.5°	13369.6	13217.1	12421.0	12234.3	13072.4	13630.5	14110.5	15135.3	16447.6	16573.3	13268.6
55°	13862.8	13754.3	13165.7	13264.8	14470.5	15230.5	15838.1	16927.6	17769.6	17434.3	13805.7
57.5°	14430.5	14331.4	14015.2	14571.4	16308.6	17264.8	17927.6	18516.2	18933.4	18314.3	14312.4
60°	15009.6	14952.4	14960.0	16022.9	18419.0	19337.1	19702.9	19855.3	20076.2	19142.9	14341.0
62.5°	15561.9	15670.5	16040.0	17638.1	20440.0	21144.8	21329.5	21480.0	21221.0	19274.3	13249.6
65°	16497.1	16674.3	17556.2	19800.0	22662.9	23417.2	23607.7	23091.5	21402.0	17575.2	10777.2
67.5°	16954.3	17278.2	18851.4	21815.2	24819.0	25657.1	25586.7	23196.2	19205.7	13401.9	6916.2
69°	16859.0	17203.8	19150.5	22432.4	25535.3	26295.3	25847.6	21914.3	16361.9	9708.6	4245.8
70°	16481.9	16830.5	18996.2	22409.6	25626.7	26228.6	25363.9	20331.5	13834.3	7099.1	2655.3
72.5°	13763.8	14064.8	16864.8	20255.2	23607.7	23118.1	21219.1	14085.7	6740.9	1933.4	598.1
75°	8472.4	8640.0	12101.0	15259.1	17830.4	16573.3	14137.2	7007.6	2009.5	546.7	331.4
77.5°	4476.2	4552.3	6624.7	8994.3	11302.9	9352.4	7245.8	2733.3	925.7	342.9	240.0
80°	2645.8	2702.8	3567.6	4112.4	4891.4	4085.8	2897.1	1678.0	662.9	215.2	213.3
82.5°	1514.3	1550.5	2586.6	2285.7	1927.6	1645.7	1442.0	1590.5	398.1	144.7	221.0
85°	556.2	563.9	1455.2	1739.0	1146.6	681.9	716.2	1318.1	106.7	91.5	173.3
87.5°	259.0	253.3	748.6	1064.8	670.4	432.4	558.1	289.5	41.9	59.0	47.7
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: P191206

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0
2.5°	4723.8	4653.3	4525.7	4394.3	4261.0	4158.1	4057.1	3977.1	3950.4	3900.9	3904.8
5°	4579.0	4449.5	4182.8	3912.4	3630.5	3398.1	3179.0	3002.0	2916.2	2828.6	2828.6
7.5°	4453.3	4264.8	3847.6	3407.7	2952.3	2569.6	2224.7	1965.7	1822.9	1708.5	1706.7
10°	4405.7	4150.5	3567.6	2937.1	2302.9	1781.0	1371.5	1108.6	973.3	885.7	881.9
12.5°	4426.7	4110.5	3352.4	2502.9	1706.7	1144.8	794.3	624.7	567.6	540.9	540.9
15°	4487.6	4099.1	3137.2	2078.1	1205.8	716.2	527.6	481.9	478.1	478.1	478.1
17.5°	4562.0	4102.9	2916.2	1664.8	820.9	512.4	455.2	449.5	453.4	453.4	453.4
20°	4638.1	4104.8	2678.1	1281.9	579.1	445.7	428.6	426.7	430.5	430.5	432.4
22.5°	4731.5	4114.3	2440.0	958.1	478.1	420.9	407.6	407.6	409.5	409.5	407.6
25°	4838.1	4133.3	2192.4	710.4	436.2	403.9	392.4	390.5	392.4	390.5	388.6
27.5°	4971.4	4160.0	1916.2	556.2	417.2	386.7	377.2	377.2	375.2	373.4	371.4
30°	5139.1	4190.5	1605.7	472.4	398.1	371.4	361.9	360.0	358.1	354.2	354.2
32.5°	5394.3	4257.1	1299.0	428.6	377.2	350.5	342.9	342.9	339.0	335.2	333.4
35°	5786.6	4388.6	1024.8	401.9	354.2	327.7	318.1	318.1	314.3	312.4	310.5
37.5°	6329.5	4588.5	796.2	377.2	331.4	302.9	293.4	291.4	287.7	283.8	281.9
40°	7051.4	4836.2	626.7	354.2	308.5	278.1	270.5	266.7	259.0	253.3	253.3
42.5°	7958.1	5118.1	508.6	329.5	281.9	255.2	249.5	243.8	230.5	224.7	222.9
45°	8906.6	5371.4	430.5	301.0	255.2	232.4	228.5	219.0	201.9	196.2	196.2
47.5°	9590.5	5430.4	379.0	274.3	230.5	207.7	205.7	188.5	173.3	169.5	167.7
50°	10017.1	5314.3	337.2	247.7	207.7	184.7	179.0	158.0	148.5	144.7	142.9
52.5°	10304.8	5106.7	302.9	224.7	186.7	163.8	150.5	135.2	127.7	123.8	123.8
55°	10535.3	4813.3	268.5	203.8	169.5	146.7	127.7	116.2	108.5	104.8	104.8
57.5°	10600.0	4415.3	234.3	186.7	152.4	129.5	108.5	101.0	91.5	89.5	89.5
60°	10129.6	3697.1	207.7	165.7	137.2	112.4	95.2	85.7	76.2	74.3	72.4
62.5°	8889.5	2861.0	182.9	146.7	120.0	97.2	81.9	70.5	62.8	62.8	62.8
65°	6780.9	1918.1	160.0	127.7	104.8	81.9	70.5	57.2	53.3	53.3	55.2
67.5°	4059.1	1043.8	137.2	108.5	89.5	68.5	59.0	49.5	47.7	49.5	49.5
69°	2379.1	613.4	123.8	97.2	78.1	61.0	51.5	43.8	47.7	49.5	49.5
70°	1468.5	413.4	114.3	87.7	70.5	55.2	47.7	41.9	45.7	47.7	47.7
72.5°	409.5	213.3	91.5	68.5	57.2	45.7	38.1	38.1	43.8	45.7	45.7
75°	266.7	158.0	70.5	51.5	43.8	36.2	32.4	36.2	41.9	43.8	43.8
77.5°	221.0	129.5	57.2	41.9	36.2	34.3	30.5	32.4	38.1	40.0	40.0
80°	201.9	91.5	45.7	38.1	32.4	30.5	28.5	26.7	34.3	36.2	36.2
82.5°	192.4	72.4	40.0	34.3	30.5	26.7	24.8	26.7	30.5	32.4	34.3
85°	120.0	47.7	36.2	32.4	26.7	24.8	24.8	24.8	28.5	30.5	30.5
87.5°	43.8	38.1	32.4	26.7	22.8	22.8	22.8	22.8	24.8	28.5	28.5
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)