

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: P191214

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191214
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-06-LED-E1-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 29557.1 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

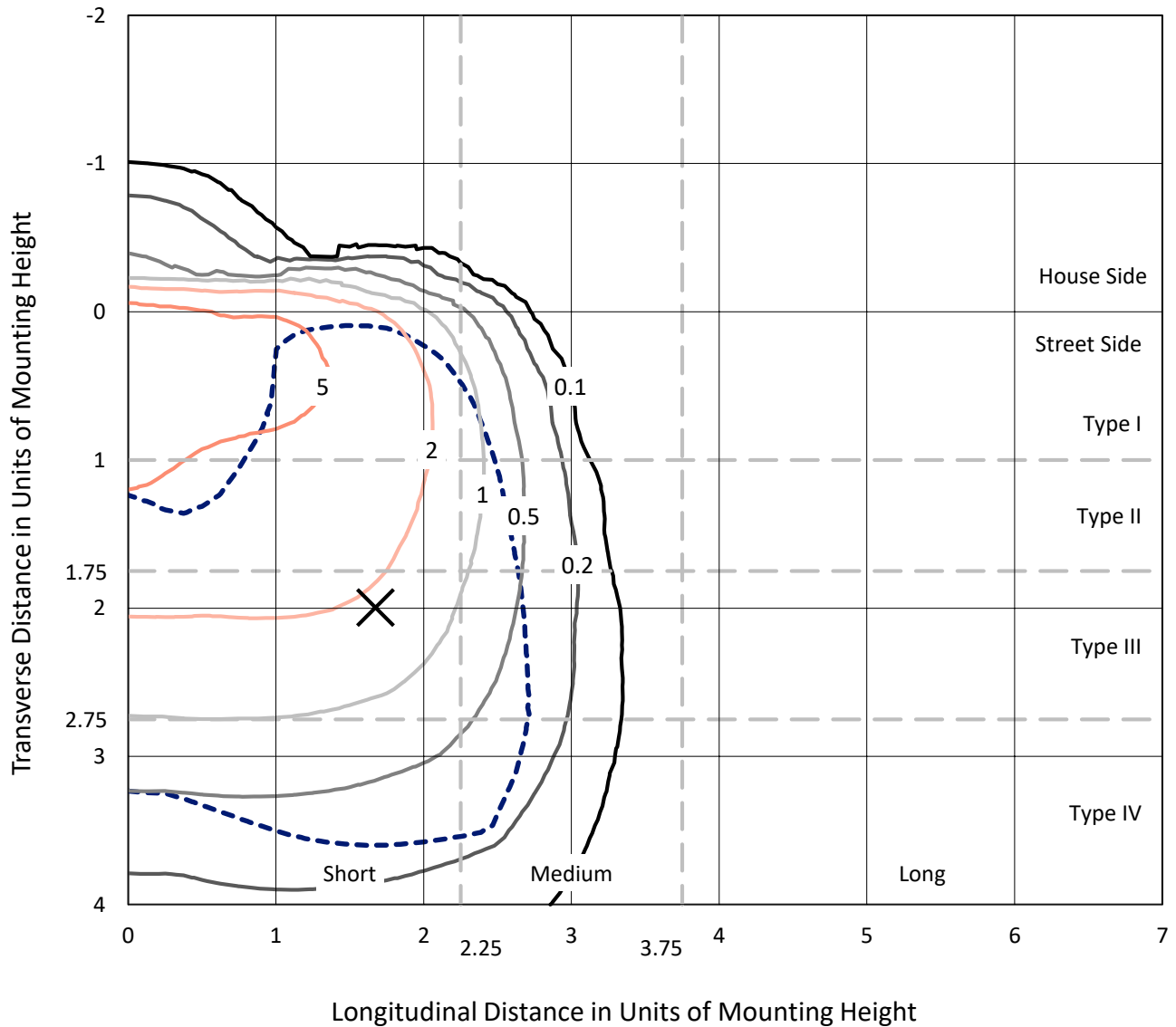
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191214
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

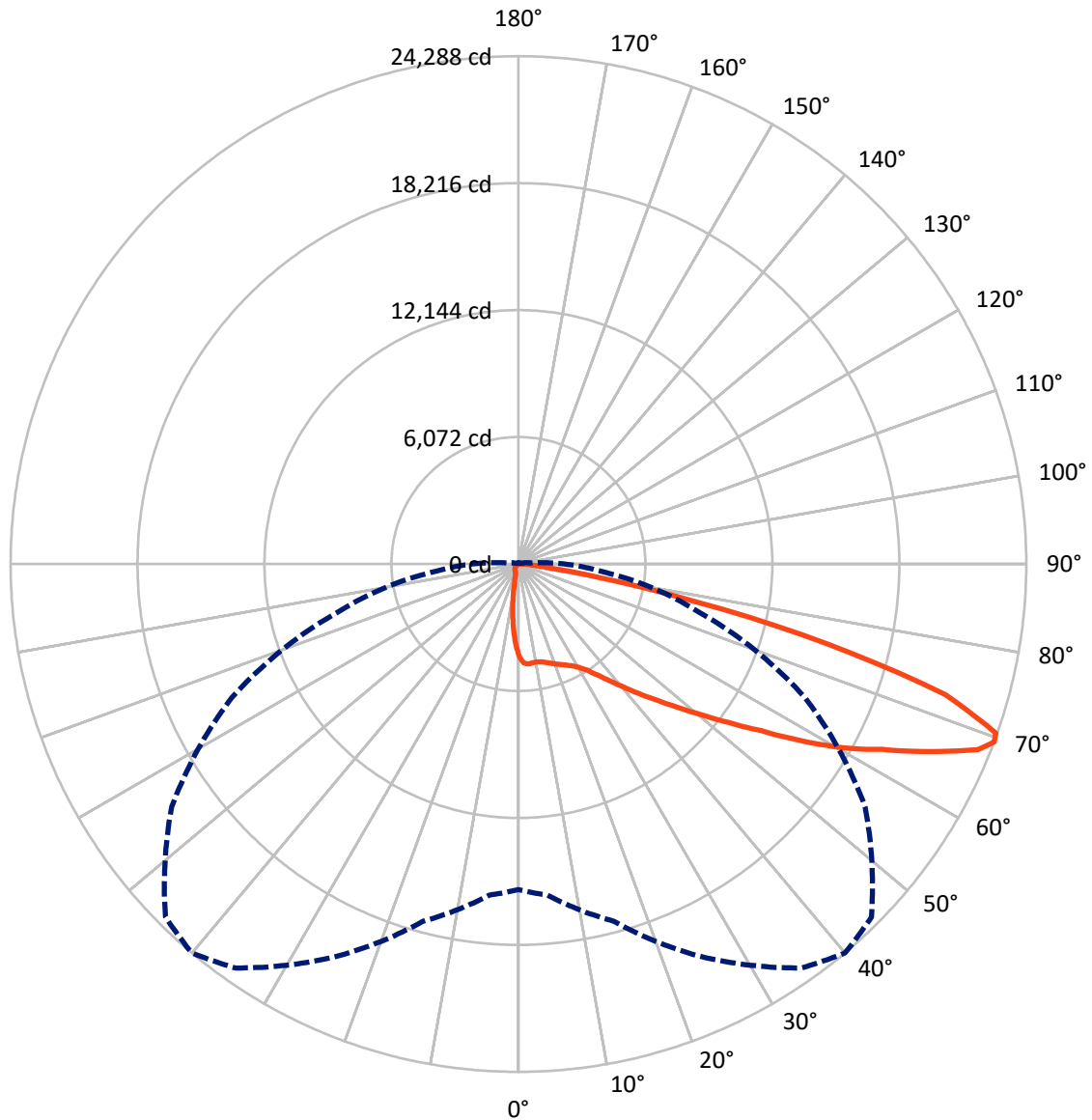


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191214

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191214

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-HSS

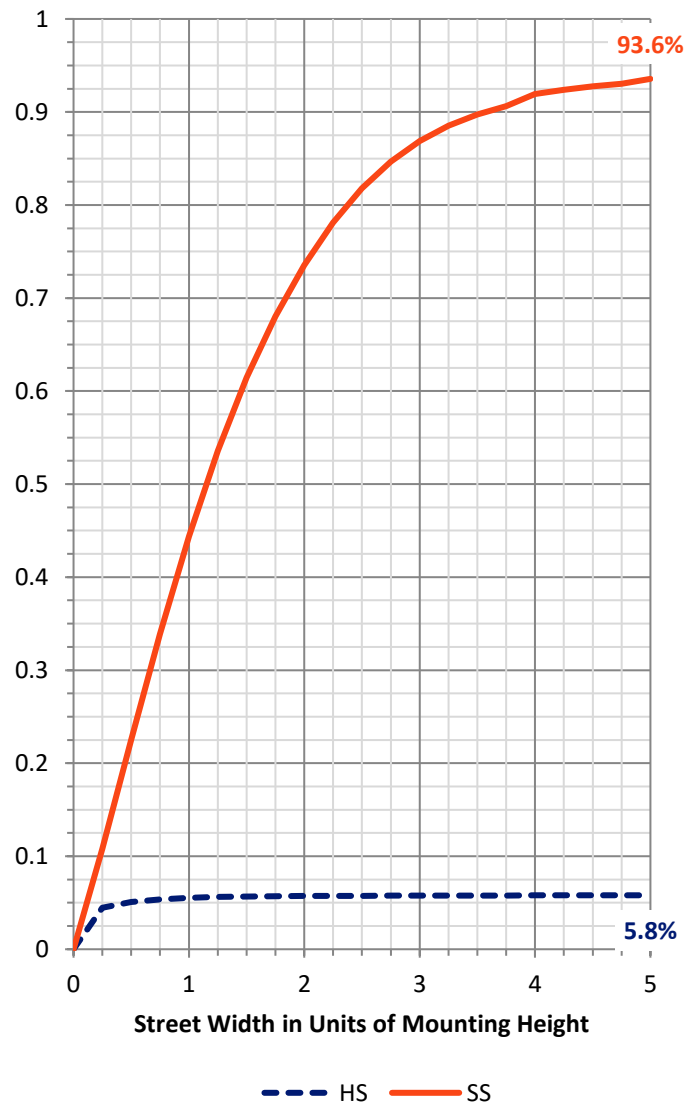
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.3	0.0	1729.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	27827.9	0.0	27827.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	29557.1	0.0	29557.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.0	1.2
10°-20°	880.5	3.0
20°-30°	1483.1	5.0
30°-40°	2427.8	8.2
40°-50°	4203.7	14.2
50°-60°	6621.3	22.4
60°-70°	8647.2	29.3
70°-80°	4453.7	15.1
80°-90°	481.8	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°	29557.1	100.0
0°-180°	29557.1	100.0

Coefficient of Utilization



REPORT NUMBER: P191214

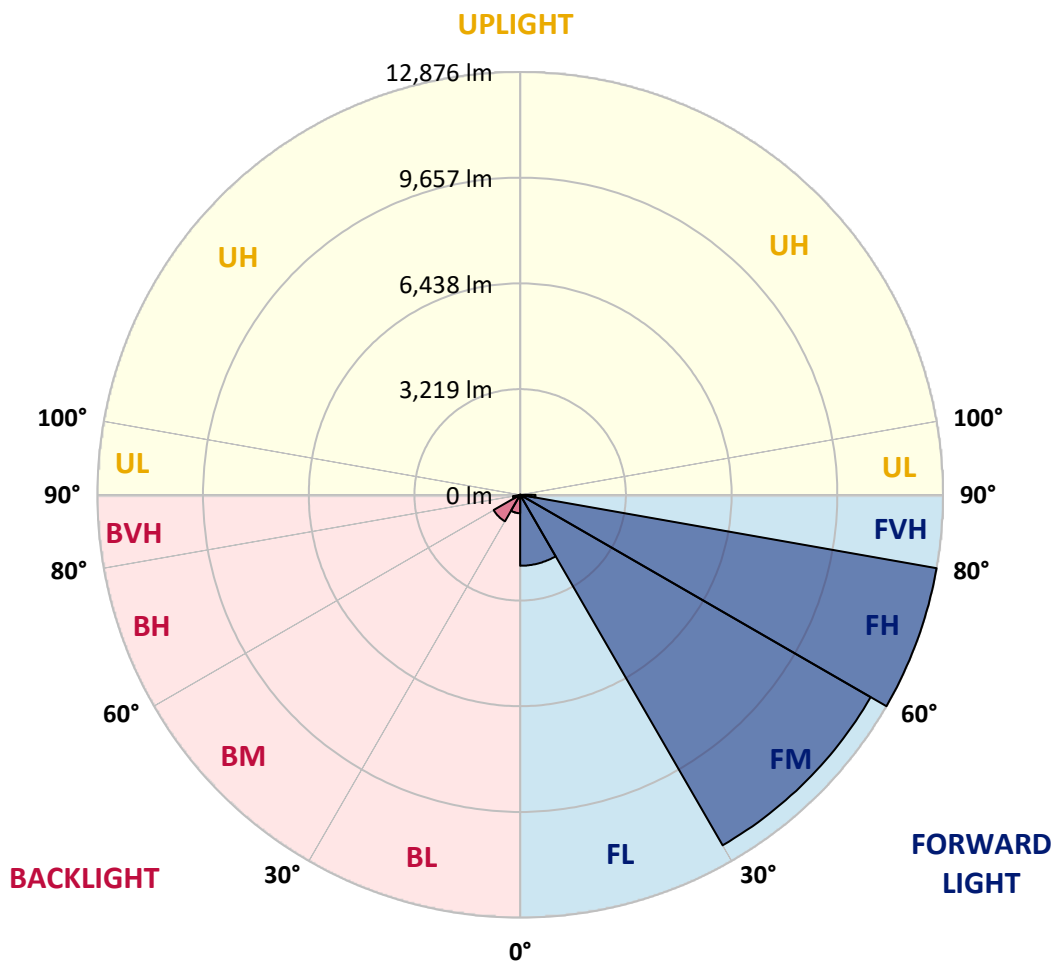
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2161.5	7.3			
FM	(30°-60°)	12323.5	41.7			
FH	(60°-80°)	12876.3	43.6			G5
FVH	(80°-90°)	466.6	1.6			G3/500
BL	(0°-30°)	560.2	1.9	B2/1000		
BM	(30°-60°)	929.4	3.1	B1/1000		
BH	(60°-80°)	224.5	0.8	B1/500		G1/500
BVH	(80°-90°)	15.1	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: P191214

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0
2.5°	4848.8	4822.4	4806.5	4785.5	4759.1	4736.2	4727.4	4662.3	4600.7	4516.2	4419.6
5°	4938.5	4929.7	4901.6	4873.4	4841.7	4806.5	4787.2	4709.8	4621.8	4498.6	4329.7
7.5°	4947.3	4936.8	4901.6	4862.9	4818.9	4776.7	4743.2	4665.8	4584.9	4460.0	4254.1
10°	4933.3	4920.9	4894.5	4852.3	4797.7	4757.3	4723.9	4650.0	4581.4	4468.8	4240.0
12.5°	4917.4	4905.0	4892.8	4871.7	4824.1	4796.0	4767.9	4697.5	4635.9	4540.9	4291.1
15°	4933.3	4926.2	4940.2	4931.4	4905.0	4880.5	4852.3	4788.9	4732.7	4653.5	4384.4
17.5°	5000.1	5000.1	5044.1	5049.4	5024.7	4989.5	4949.0	4885.7	4838.3	4771.3	4495.2
20°	5156.7	5151.4	5207.7	5218.3	5158.4	5103.9	5044.1	4966.6	4929.7	4887.5	4604.2
22.5°	5425.8	5401.2	5434.6	5424.1	5306.3	5221.8	5147.9	5052.9	5033.5	5014.2	4725.6
25°	5776.0	5761.9	5784.8	5681.0	5473.4	5359.0	5271.1	5163.8	5163.8	5183.1	4862.9
27.5°	6284.4	6231.6	6154.3	5971.3	5659.9	5513.8	5418.8	5304.5	5334.4	5406.5	5044.1
30°	6805.2	6747.2	6569.5	6288.0	5886.8	5733.7	5623.0	5503.3	5573.6	5705.6	5286.9
32.5°	7318.9	7253.8	7002.2	6646.8	6212.3	6059.2	5951.9	5820.0	5937.8	6159.5	5642.3
35°	7816.9	7758.8	7468.5	7049.8	6645.1	6518.4	6419.9	6305.6	6456.9	6766.5	6143.6
37.5°	8376.3	8313.0	7959.4	7505.4	7171.2	7079.6	7007.5	6893.2	7157.1	7611.0	6842.1
40°	9064.2	8956.9	8480.1	8027.9	7779.8	7735.9	7686.7	7670.8	8080.7	8708.8	7772.9
42.5°	9852.4	9676.5	9025.5	8578.7	8448.4	8480.1	8467.8	8538.2	9236.6	10074.1	8905.9
45°	10640.6	10413.6	9632.5	9166.3	9183.8	9294.7	9363.3	9644.8	10684.6	11640.0	10125.1
47.5°	11309.1	11085.7	10214.9	9801.4	10012.5	10230.6	10417.1	10950.3	12173.0	13181.1	11073.4
50°	11881.0	11669.8	10832.3	10499.9	10974.8	11326.7	11629.3	12419.3	13774.0	14354.6	11738.5
52.5°	12349.0	12208.2	11472.8	11300.3	12074.5	12590.0	13033.3	13979.9	15192.0	15308.2	12255.7
55°	12804.6	12704.3	12160.6	12252.2	13365.9	14067.8	14629.0	15635.4	16413.0	16103.4	12751.8
57.5°	13328.9	13237.4	12945.3	13459.1	15063.7	15946.8	16559.1	17102.7	17488.1	16916.2	13219.8
60°	13863.7	13811.0	13818.0	14799.7	17013.0	17861.0	18198.8	18339.6	18543.6	17681.5	13246.2
62.5°	14374.0	14474.2	14815.6	16291.6	18879.7	19530.6	19701.3	19840.2	19601.0	17802.9	12238.1
65°	15237.8	15401.4	16216.0	18288.5	20932.8	21629.6	21805.5	21328.7	19768.1	16233.6	9954.4
67.5°	15660.0	15959.2	17412.4	20149.9	22924.4	23698.6	23633.4	21425.5	17739.6	12378.8	6388.2
69°	15572.1	15890.5	17688.6	20720.0	23586.0	24287.9	23874.4	20241.4	15112.9	8967.5	3921.6
70°	15223.8	15545.7	17546.1	20698.9	23670.4	24226.3	23427.6	18779.4	12778.2	6557.1	2452.5
72.5°	12713.1	12991.1	15577.4	18709.1	21805.5	21353.3	19599.2	13010.5	6226.4	1785.8	552.4
75°	7825.6	7980.4	11177.2	14094.2	16469.3	15308.2	13058.0	6472.7	1856.1	504.9	306.2
77.5°	4134.5	4204.8	6119.1	8307.7	10440.0	8638.4	6692.6	2524.6	855.1	316.7	221.7
80°	2443.7	2496.5	3295.2	3798.4	4518.1	3773.9	2675.9	1550.0	612.2	198.8	197.0
82.5°	1398.7	1432.1	2389.2	2111.3	1780.4	1520.1	1331.9	1469.1	367.8	133.7	204.1
85°	513.7	520.8	1344.2	1606.3	1059.2	629.8	661.5	1217.5	98.5	84.5	160.1
87.5°	239.3	233.9	691.4	983.5	619.3	399.4	515.5	267.4	38.7	54.5	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



REPORT NUMBER: P191214

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0	4416.0
2.5°	4363.2	4298.1	4180.2	4058.9	3935.7	3840.7	3747.5	3673.5	3648.9	3603.1	3606.7
5°	4229.5	4109.9	3863.6	3613.7	3353.3	3138.7	2936.4	2772.7	2693.5	2612.6	2612.6
7.5°	4113.4	3939.2	3553.9	3147.5	2727.0	2373.3	2054.9	1815.6	1683.7	1578.1	1576.4
10°	4069.4	3833.6	3295.2	2713.0	2127.0	1645.0	1266.7	1024.0	899.1	818.1	814.6
12.5°	4088.7	3796.7	3096.5	2311.8	1576.4	1057.4	733.7	577.0	524.3	499.6	499.6
15°	4145.0	3786.1	2897.7	1919.5	1113.7	661.5	487.3	445.1	441.6	441.6	441.6
17.5°	4213.6	3789.6	2693.5	1537.7	758.3	473.2	420.5	415.2	418.7	418.7	418.7
20°	4284.0	3791.5	2473.7	1184.1	534.8	411.7	395.9	394.1	397.6	397.6	399.4
22.5°	4370.3	3800.3	2253.8	885.0	441.6	388.8	376.5	376.5	378.3	378.3	376.5
25°	4468.8	3817.9	2025.0	656.2	402.9	373.0	362.4	360.7	362.4	360.7	359.0
27.5°	4591.9	3842.4	1769.9	513.7	385.3	357.1	348.3	348.3	346.6	344.8	343.1
30°	4746.8	3870.5	1483.2	436.3	367.8	343.1	334.3	332.6	330.7	327.2	327.2
32.5°	4982.5	3932.1	1199.9	395.9	348.3	323.8	316.7	316.7	313.1	309.6	307.9
35°	5344.9	4053.5	946.5	371.2	327.2	302.6	293.8	293.8	290.3	288.6	286.7
37.5°	5846.4	4238.3	735.4	348.3	306.2	279.8	271.0	269.1	265.7	262.2	260.3
40°	6513.1	4467.0	578.8	327.2	285.0	256.9	249.8	246.3	239.3	233.9	233.9
42.5°	7350.6	4727.4	469.7	304.3	260.3	235.8	230.5	225.2	212.9	207.6	205.8
45°	8226.8	4961.4	397.6	277.9	235.8	214.6	211.1	202.3	186.5	181.2	181.2
47.5°	8858.3	5015.9	350.2	253.4	212.9	191.8	190.0	174.2	160.1	156.6	154.8
50°	9252.5	4908.6	311.4	228.7	191.8	170.6	165.4	146.1	137.3	133.7	132.0
52.5°	9518.1	4716.8	279.8	207.6	172.4	151.3	139.0	124.9	117.8	114.4	114.4
55°	9731.0	4445.9	248.1	188.2	156.6	135.4	117.8	107.3	100.2	96.8	96.8
57.5°	9790.9	4078.2	216.4	172.4	140.8	119.7	100.2	93.3	84.5	82.7	82.7
60°	9356.3	3414.9	191.8	153.0	126.6	103.8	88.0	79.2	70.4	68.6	66.9
62.5°	8210.9	2642.6	168.9	135.4	110.9	89.7	75.7	65.1	58.1	58.1	58.1
65°	6263.3	1771.6	147.8	117.8	96.8	75.7	65.1	52.8	49.3	49.3	51.0
67.5°	3749.2	964.1	126.6	100.2	82.7	63.3	54.5	45.7	44.0	45.7	45.7
69°	2197.4	566.5	114.4	89.7	72.1	56.3	47.5	40.5	44.0	45.7	45.7
70°	1356.4	381.8	105.6	80.9	65.1	51.0	44.0	38.7	42.2	44.0	44.0
72.5°	378.3	197.0	84.5	63.3	52.8	42.2	35.2	35.2	40.5	42.2	42.2
75°	246.3	146.1	65.1	47.5	40.5	33.5	29.9	33.5	38.7	40.5	40.5
77.5°	204.1	119.7	52.8	38.7	33.5	31.7	28.1	29.9	35.2	36.9	36.9
80°	186.5	84.5	42.2	35.2	29.9	28.1	26.4	24.7	31.7	33.5	33.5
82.5°	177.7	66.9	36.9	31.7	28.1	24.7	22.9	24.7	28.1	29.9	31.7
85°	110.9	44.0	33.5	29.9	24.7	22.9	22.9	22.9	26.4	28.1	28.1
87.5°	40.5	35.2	29.9	24.7	21.1	21.1	21.1	21.1	22.9	26.4	26.4
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)