

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: P269725

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269725
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-10-LED-E1-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 33565.7 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 419
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

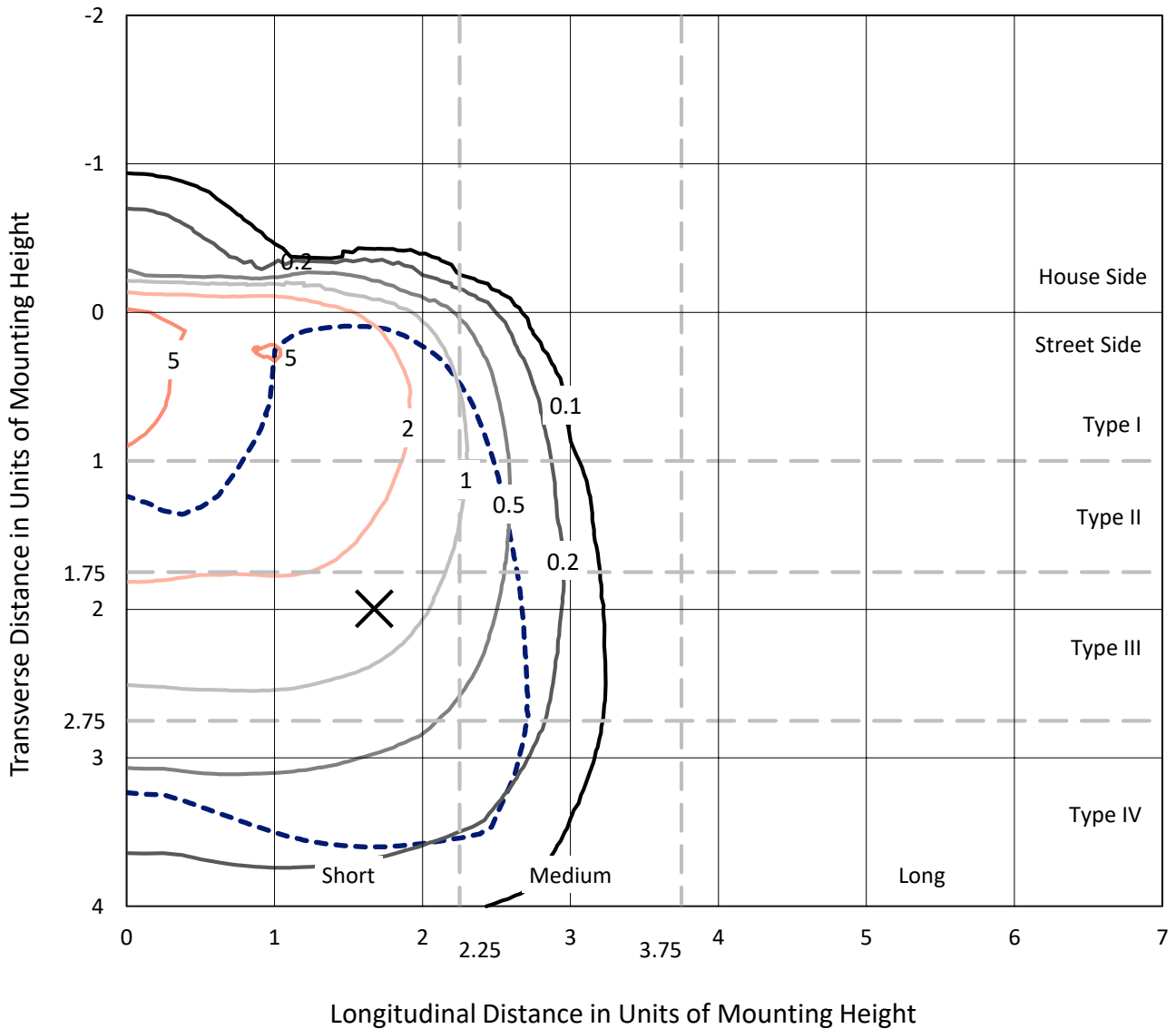


REPORT NUMBER: P269725

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

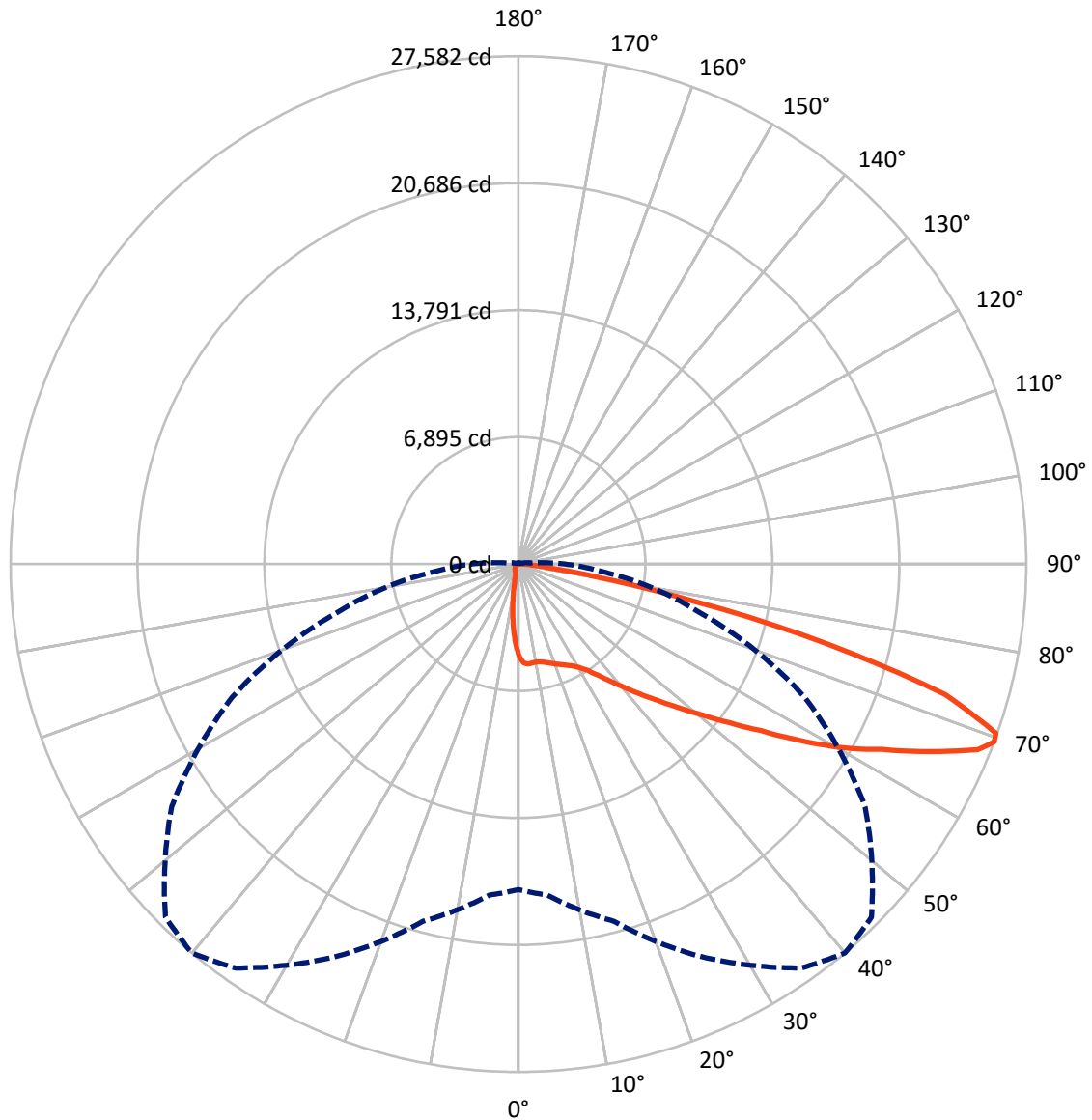


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269725

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269725

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-800-HSS

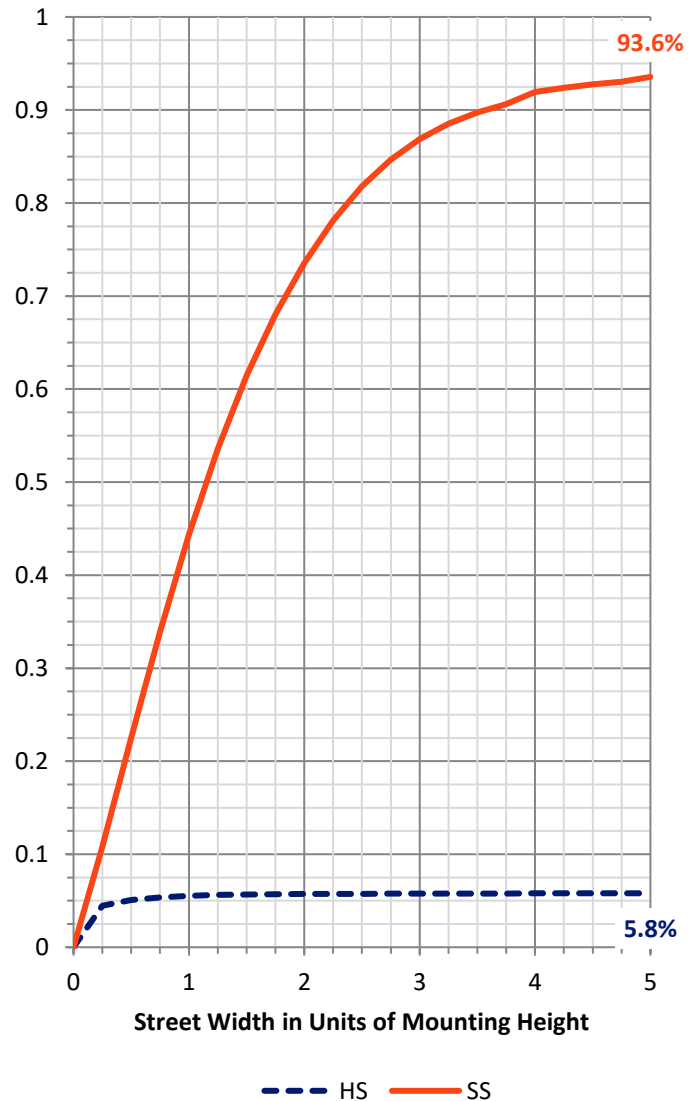
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1963.8	0.0	1963.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	31601.9	0.0	31601.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	33565.7	0.0	33565.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	1.2
10°-20°	999.9	3.0
20°-30°	1684.2	5.0
30°-40°	2757.1	8.2
40°-50°	4773.8	14.2
50°-60°	7519.3	22.4
60°-70°	9819.9	29.3
70°-80°	5057.7	15.1
80°-90°	547.1	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°	33565.7	100.0
0°-180°	33565.7	100.0

Coefficient of Utilization



REPORT NUMBER: P269725

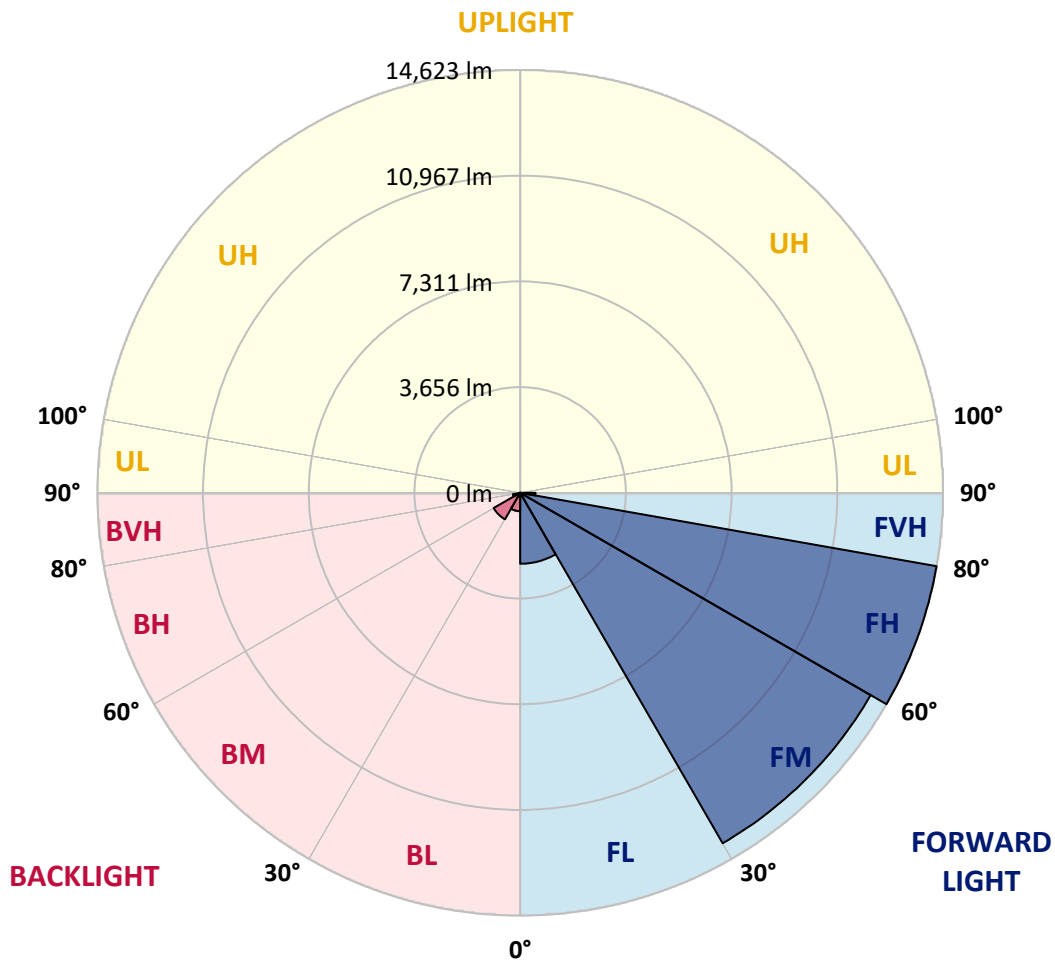
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2454.6	7.3			
FM	(30°-60°)	13994.8	41.7			
FH	(60°-80°)	14622.6	43.6			G5
FVH	(80°-90°)	529.9	1.6			G4/750
BL	(0°-30°)	636.1	1.9	B2/1000		
BM	(30°-60°)	1055.5	3.1	B2/2500		
BH	(60°-80°)	255.0	0.8	B1/500		G1/500
BVH	(80°-90°)	17.2	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: P269725

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9
2.5°	5506.4	5476.3	5458.5	5434.4	5404.6	5378.5	5368.5	5294.6	5224.7	5128.8	5018.9
5°	5608.3	5598.2	5566.3	5534.4	5498.3	5458.5	5436.5	5348.6	5248.6	5108.8	4917.1
7.5°	5618.3	5606.3	5566.3	5522.4	5472.5	5424.4	5386.4	5298.7	5206.7	5064.9	4831.1
10°	5602.3	5588.3	5558.4	5510.5	5448.4	5402.4	5364.5	5280.5	5202.8	5074.9	4815.1
12.5°	5584.4	5570.3	5556.3	5532.3	5478.5	5446.5	5414.4	5334.6	5264.6	5156.7	4873.0
15°	5602.3	5594.3	5610.3	5600.4	5570.3	5542.4	5510.5	5438.5	5374.5	5284.5	4978.9
17.5°	5678.1	5678.1	5728.1	5734.2	5706.2	5666.1	5620.2	5548.3	5494.5	5418.4	5104.8
20°	5856.1	5850.0	5914.0	5925.9	5858.0	5796.0	5728.1	5640.3	5598.2	5550.4	5228.7
22.5°	6161.7	6133.7	6171.7	6159.7	6025.9	5929.9	5846.0	5738.2	5716.2	5694.1	5366.6
25°	6559.3	6543.3	6569.2	6451.4	6215.6	6085.7	5985.9	5864.0	5864.0	5886.1	5522.4
27.5°	7136.8	7076.8	6988.9	6781.0	6427.5	6261.6	6153.7	6023.9	6057.8	6139.7	5728.1
30°	7728.1	7662.3	7460.5	7140.6	6685.1	6511.4	6385.5	6249.6	6329.5	6479.4	6003.9
32.5°	8311.5	8237.5	7951.8	7548.3	7054.7	6880.9	6759.0	6609.3	6743.1	6994.8	6407.5
35°	8877.0	8811.0	8481.3	8005.9	7546.3	7402.5	7290.6	7160.7	7332.5	7684.1	6976.9
37.5°	9512.3	9440.4	9038.7	8523.3	8143.7	8039.8	7957.8	7828.0	8127.8	8643.2	7770.1
40°	10293.5	10171.6	9630.2	9116.7	8835.0	8785.1	8729.1	8711.1	9176.6	9889.9	8826.9
42.5°	11188.6	10988.7	10249.5	9742.1	9594.2	9630.2	9616.1	9696.1	10489.2	11440.4	10113.7
45°	12083.7	11825.9	10938.8	10409.4	10429.3	10555.3	10633.1	10952.9	12133.6	13218.5	11498.2
47.5°	12842.9	12589.1	11600.2	11130.7	11370.3	11618.1	11829.9	12435.2	13823.8	14968.7	12575.2
50°	13492.3	13252.4	12301.5	11923.8	12463.3	12862.9	13206.5	14103.6	15642.0	16301.4	13330.4
52.5°	14023.7	13863.8	13028.7	12832.8	13712.0	14297.5	14801.0	15875.8	17252.4	17384.3	13917.8
55°	14541.1	14427.3	13810.0	13913.8	15178.5	15975.6	16613.1	17755.9	18639.0	18287.3	14481.2
57.5°	15136.6	15032.6	14701.0	15284.4	17106.6	18109.6	18804.8	19422.3	19859.8	19210.4	15012.7
60°	15744.0	15684.0	15692.0	16806.8	19320.2	20283.3	20666.9	20826.8	21058.5	20079.5	15042.7
62.5°	16323.3	16437.2	16824.8	18501.1	21440.1	22179.4	22373.1	22531.0	22259.3	20217.3	13897.9
65°	17304.4	17490.2	18415.3	20768.9	23771.8	24563.0	24762.8	24221.3	22449.2	18435.1	11304.5
67.5°	17783.8	18123.6	19773.9	22882.6	26033.4	26912.5	26838.7	24331.2	20145.5	14057.7	7254.6
69°	17683.9	18045.6	20087.4	23530.1	26784.8	27581.9	27112.4	22986.5	17162.5	10183.6	4453.4
70°	17288.4	17654.0	19925.7	23505.9	26880.6	27511.9	26604.8	21326.2	14511.2	7446.4	2785.1
72.5°	14437.3	14753.0	17690.0	21246.4	24762.8	24249.2	22257.3	14775.0	7070.7	2028.0	627.3
75°	8886.9	9062.8	12693.1	16005.7	18702.9	17384.3	14829.0	7350.6	2107.9	573.4	347.6
77.5°	4695.3	4775.1	6948.8	9434.4	11855.9	9810.0	7600.3	2867.1	971.0	359.6	251.7
80°	2775.1	2835.1	3742.2	4313.7	5130.8	4285.6	3038.8	1760.1	695.3	225.7	223.8
82.5°	1588.4	1626.3	2713.2	2397.5	2021.9	1726.3	1512.4	1668.3	417.6	151.9	231.8
85°	583.4	591.4	1526.4	1824.2	1202.8	715.3	751.3	1382.6	111.8	95.8	181.7
87.5°	271.6	265.7	785.2	1116.9	703.4	453.6	585.3	303.6	43.9	62.0	49.9
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: P269725

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9	5014.9
2.5°	4955.0	4881.0	4747.2	4609.4	4469.4	4361.5	4255.7	4171.8	4143.8	4091.8	4095.8
5°	4803.1	4667.2	4387.5	4103.7	3808.2	3564.4	3334.6	3148.7	3058.9	2967.0	2967.0
7.5°	4671.2	4473.4	4035.8	3574.4	3096.8	2695.3	2333.6	2061.9	1912.0	1792.2	1790.2
10°	4621.3	4353.5	3742.2	3080.8	2415.5	1868.0	1438.5	1162.9	1021.0	929.0	925.1
12.5°	4643.2	4311.7	3516.4	2625.3	1790.2	1200.8	833.2	655.4	595.3	567.4	567.4
15°	4707.2	4299.6	3290.6	2179.7	1264.8	751.3	553.4	505.4	501.6	501.6	501.6
17.5°	4785.1	4303.6	3058.9	1746.2	861.1	537.5	477.4	471.5	475.6	475.6	475.6
20°	4865.0	4305.5	2809.1	1344.7	607.3	467.5	449.5	447.5	451.6	451.6	453.6
22.5°	4963.0	4315.5	2559.5	1004.9	501.6	441.5	427.6	427.6	429.6	429.6	427.6
25°	5074.9	4335.6	2299.7	745.2	457.5	423.6	411.6	409.5	411.6	409.5	407.7
27.5°	5214.8	4363.5	2010.0	583.4	437.6	405.6	395.7	395.7	393.5	391.7	389.7
30°	5390.5	4395.5	1684.3	495.4	417.6	389.7	379.7	377.6	375.6	371.5	371.5
32.5°	5658.2	4465.5	1362.5	449.5	395.7	367.6	359.6	359.6	355.5	351.6	349.6
35°	6069.8	4603.4	1074.9	421.6	371.5	343.6	333.7	333.7	329.7	327.6	325.6
37.5°	6639.3	4813.1	835.2	395.7	347.6	317.7	307.7	305.8	301.7	297.7	295.7
40°	7396.5	5072.8	657.3	371.5	323.7	291.7	283.8	279.7	271.6	265.7	265.7
42.5°	8347.5	5368.5	533.5	345.7	295.7	267.8	261.8	255.7	241.7	235.7	233.7
45°	9342.5	5634.3	451.6	315.7	267.8	243.8	239.8	229.7	211.8	205.8	205.8
47.5°	10059.7	5696.2	397.6	287.6	241.7	217.7	215.9	197.7	181.7	177.9	175.8
50°	10507.3	5574.3	353.7	259.7	217.7	193.9	187.8	165.8	155.9	151.9	149.8
52.5°	10808.9	5356.6	317.7	235.7	195.8	171.8	157.8	141.8	133.8	129.8	129.8
55°	11050.7	5048.8	281.7	213.7	177.9	153.8	133.8	121.9	113.8	110.0	110.0
57.5°	11118.6	4631.3	245.7	195.8	159.9	135.9	113.8	105.9	95.8	94.0	94.0
60°	10625.2	3878.1	217.7	173.8	143.9	117.9	99.9	89.9	79.9	78.0	75.9
62.5°	9324.4	3001.0	191.8	153.8	125.9	101.9	85.9	73.9	65.9	65.9	65.9
65°	7112.7	2011.9	167.9	133.8	110.0	85.9	73.9	59.9	56.0	56.0	57.9
67.5°	4257.6	1094.9	143.9	113.8	94.0	72.0	62.0	51.9	49.9	51.9	51.9
69°	2495.4	643.4	129.8	101.9	81.9	63.9	54.0	46.0	49.9	51.9	51.9
70°	1540.5	433.5	119.8	91.8	73.9	57.9	49.9	43.9	48.0	49.9	49.9
72.5°	429.6	223.8	95.8	72.0	59.9	48.0	40.0	40.0	46.0	48.0	48.0
75°	279.7	165.8	73.9	54.0	46.0	38.0	34.0	38.0	43.9	46.0	46.0
77.5°	231.8	135.9	59.9	43.9	38.0	35.9	32.0	34.0	40.0	42.0	42.0
80°	211.8	95.8	48.0	40.0	34.0	32.0	30.0	27.9	35.9	38.0	38.0
82.5°	201.8	75.9	42.0	35.9	32.0	27.9	26.1	27.9	32.0	34.0	35.9
85°	125.9	49.9	38.0	34.0	27.9	26.1	26.1	26.1	30.0	32.0	32.0
87.5°	46.0	40.0	34.0	27.9	24.0	24.0	24.0	24.0	26.1	30.0	30.0
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)