

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: P269403

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269403
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-SL4-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 16539.9 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 193
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

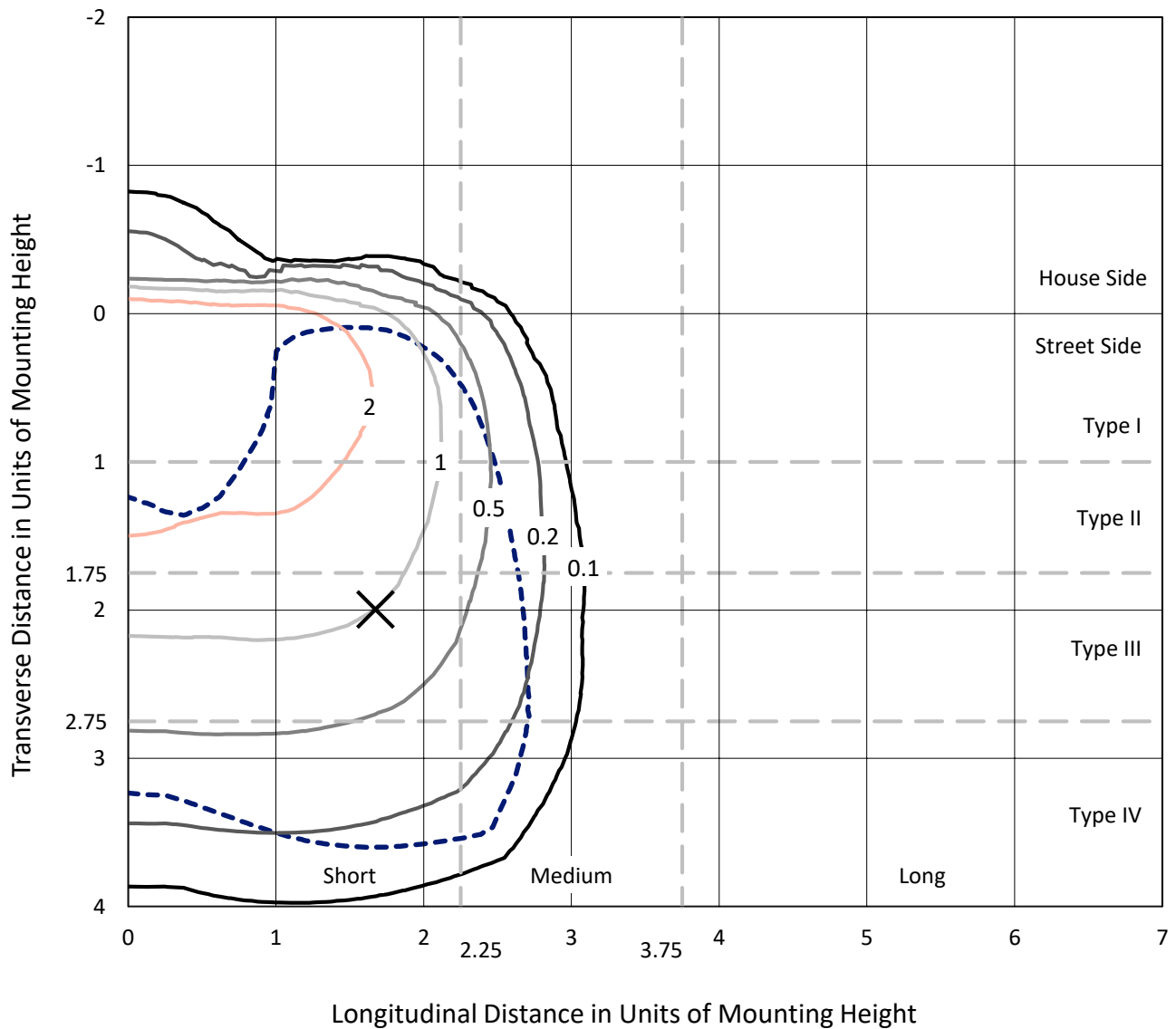


REPORT NUMBER: P269403

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

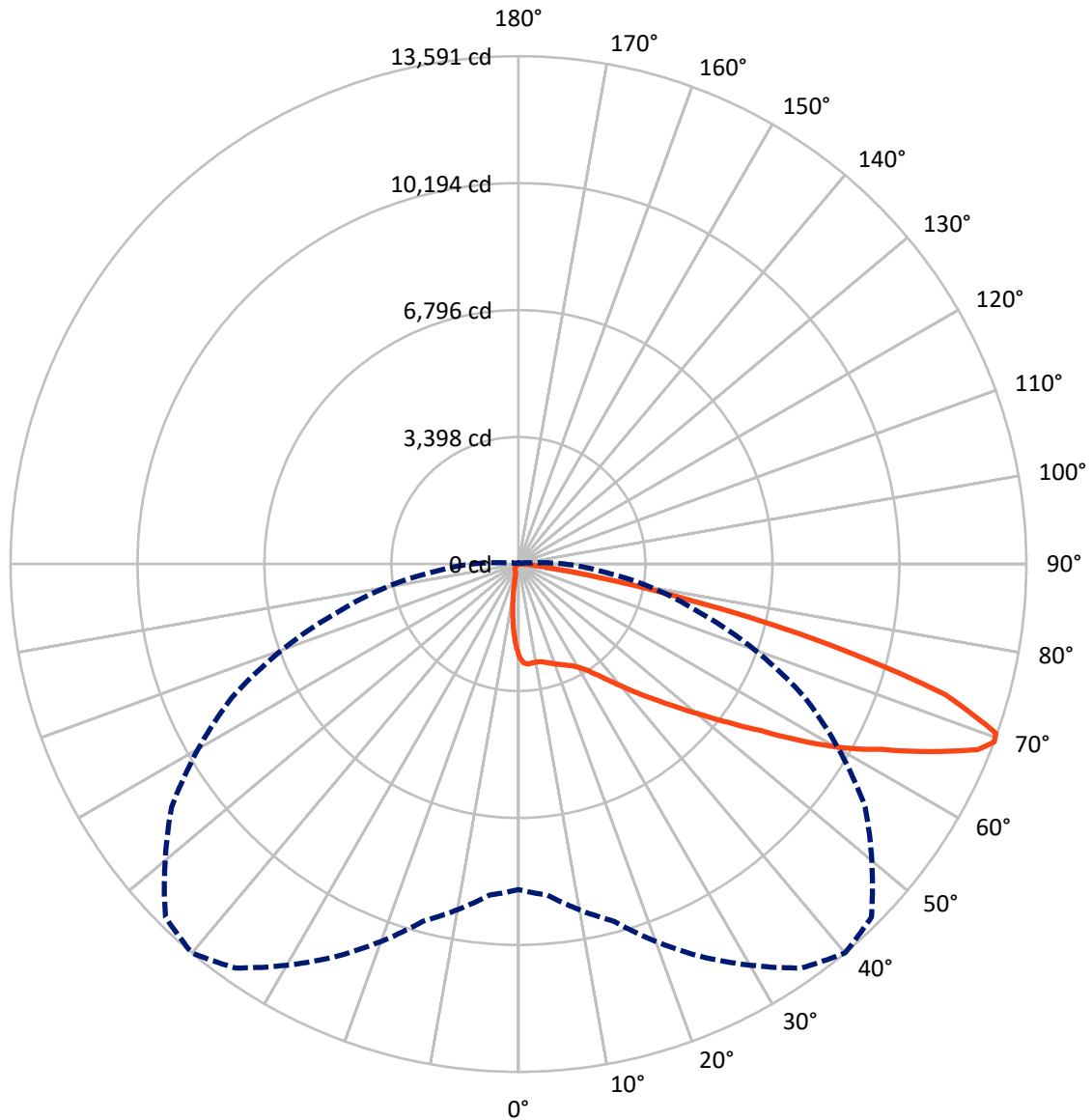


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269403

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269403

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-600-HSS

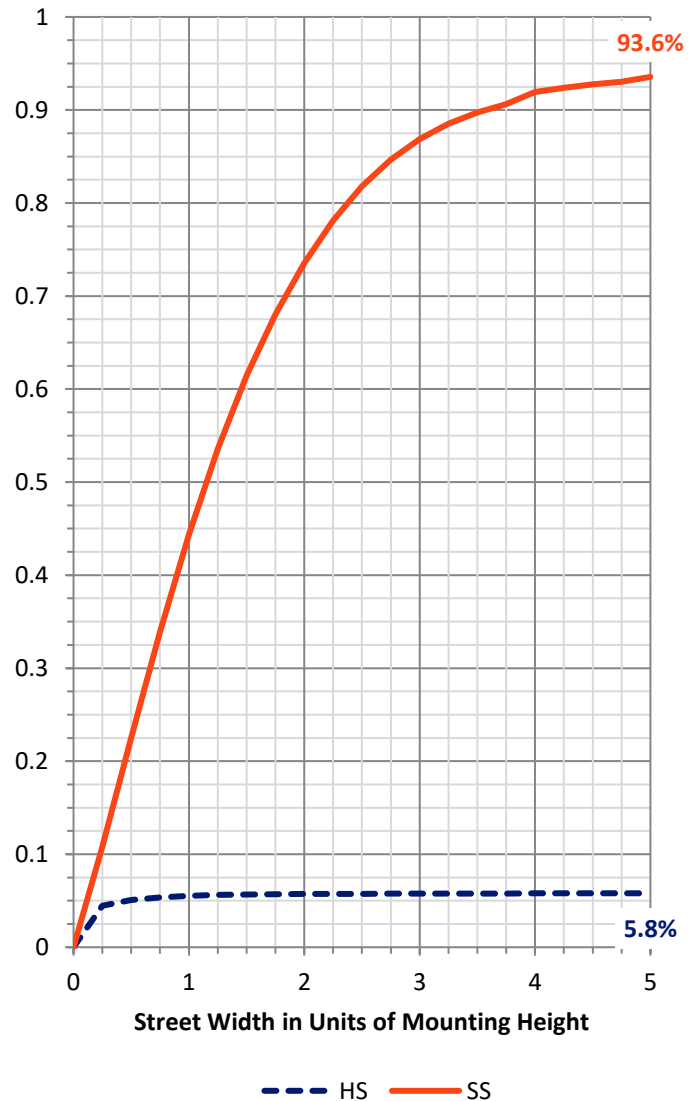
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.7	0.0	967.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	15572.2	0.0	15572.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	16539.9	0.0	16539.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.2
10°-20°	492.7	3.0
20°-30°	829.9	5.0
30°-40°	1358.6	8.2
40°-50°	2352.4	14.2
50°-60°	3705.2	22.4
60°-70°	4838.9	29.3
70°-80°	2492.3	15.1
80°-90°	269.6	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°	16539.9	100.0
0°-180°	16539.9	100.0



REPORT NUMBER: P269403

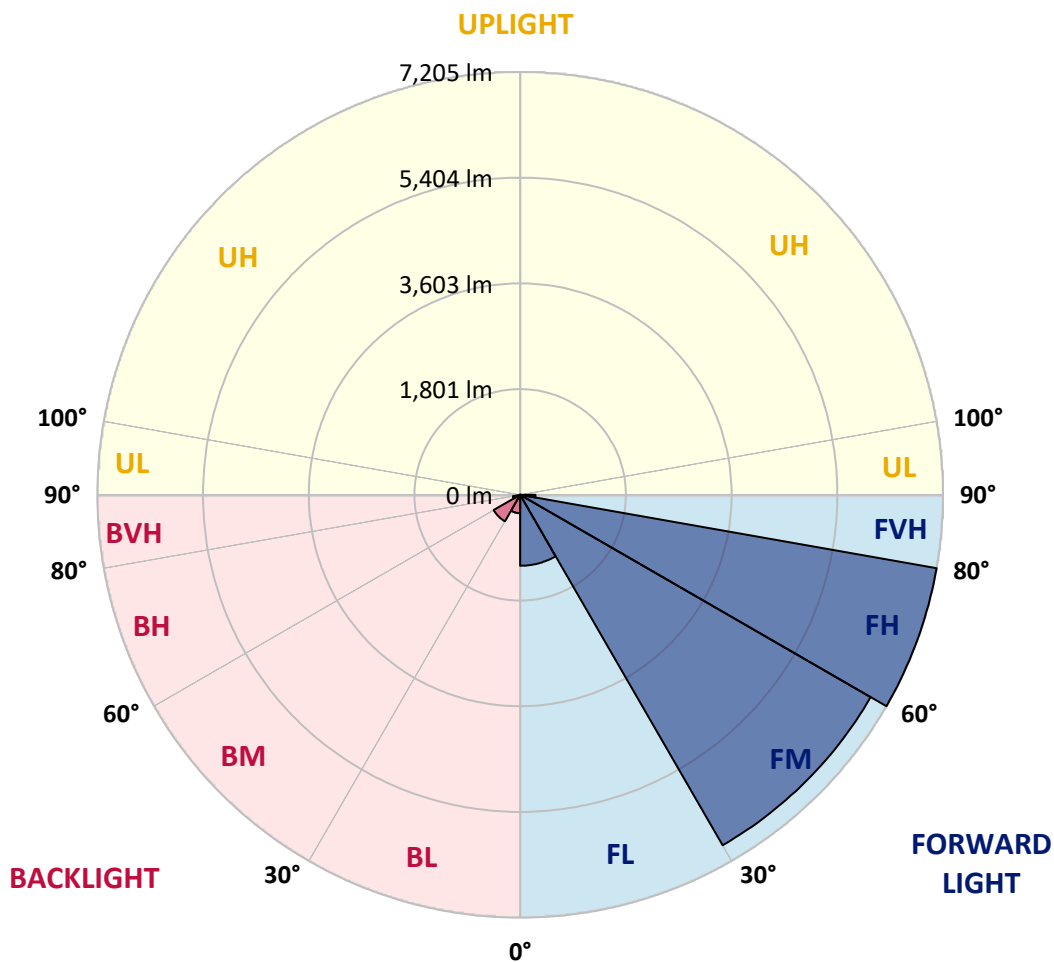
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1209.5	7.3			
FM	(30°-60°)	6896.1	41.7			
FH	(60°-80°)	7205.5	43.6			G3/7500
FVH	(80°-90°)	261.1	1.6			G3/500
BL	(0°-30°)	313.5	1.9	B1/500		
BM	(30°-60°)	520.1	3.1	B1/1000		
BH	(60°-80°)	125.7	0.8	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P269403

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1
2.5°	2713.3	2698.6	2689.7	2677.8	2663.1	2650.3	2645.4	2608.9	2574.5	2527.3	2473.2
5°	2763.5	2758.7	2742.9	2727.2	2709.4	2689.7	2678.8	2635.5	2586.3	2517.4	2422.9
7.5°	2768.4	2762.6	2742.9	2721.2	2696.6	2672.9	2654.3	2611.0	2565.6	2495.9	2380.6
10°	2760.6	2753.8	2738.9	2715.2	2684.8	2662.1	2643.4	2602.1	2563.8	2500.7	2372.8
12.5°	2751.8	2744.9	2737.9	2726.1	2699.5	2683.7	2668.1	2628.7	2594.2	2541.0	2401.3
15°	2760.6	2756.7	2764.5	2759.7	2744.9	2731.0	2715.2	2679.9	2648.4	2604.0	2453.5
17.5°	2798.0	2798.0	2822.7	2825.6	2811.8	2792.1	2769.5	2734.0	2707.4	2670.0	2515.4
20°	2885.6	2882.8	2914.2	2920.1	2886.7	2856.2	2822.7	2779.3	2758.7	2735.0	2576.5
22.5°	3036.4	3022.4	3041.2	3035.4	2969.3	2922.0	2880.8	2827.5	2816.7	2805.9	2644.4
25°	3232.2	3224.2	3237.1	3179.0	3062.9	2998.8	2949.7	2889.6	2889.6	2900.4	2721.2
27.5°	3516.8	3487.2	3443.8	3341.4	3167.2	3085.5	3032.3	2968.3	2985.1	3025.4	2822.7
30°	3808.2	3775.7	3676.3	3518.8	3294.3	3208.6	3146.6	3079.6	3118.9	3192.8	2958.5
32.5°	4095.6	4059.3	3918.3	3719.5	3476.4	3390.7	3330.6	3256.7	3322.8	3446.7	3157.4
35°	4374.2	4341.8	4179.4	3944.9	3718.5	3647.7	3592.5	3528.5	3613.3	3786.4	3438.0
37.5°	4687.3	4651.9	4453.9	4199.9	4012.9	3961.7	3921.3	3857.3	4005.1	4259.0	3828.8
40°	5072.3	5012.3	4745.3	4492.3	4353.5	4328.9	4301.4	4292.6	4521.9	4873.3	4349.7
42.5°	5513.3	5414.9	5050.6	4800.5	4727.7	4745.3	4738.5	4777.8	5168.8	5637.4	4983.6
45°	5954.3	5827.3	5390.3	5129.3	5139.3	5201.2	5239.6	5397.1	5978.9	6513.6	5665.9
47.5°	6328.5	6203.4	5716.2	5484.8	5602.9	5725.0	5829.3	6127.7	6811.8	7376.1	6196.6
50°	6648.4	6530.3	6061.8	5875.6	6141.4	6338.4	6507.7	6949.7	7707.8	8032.7	6568.8
52.5°	6910.3	6831.6	6420.0	6323.6	6756.8	7045.2	7293.2	7823.0	8501.3	8566.3	6858.2
55°	7165.3	7109.2	6805.0	6856.3	7479.4	7872.2	8186.3	8749.4	9184.6	9011.3	7135.9
57.5°	7458.7	7407.6	7244.1	7531.6	8429.4	8923.8	9266.3	9570.5	9786.1	9466.2	7397.7
60°	7758.0	7728.5	7732.4	8281.8	9520.3	9994.8	10183.8	10262.6	10377.0	9894.4	7412.5
62.5°	8043.6	8099.7	8290.6	9116.7	10564.8	10929.1	11024.7	11102.4	10968.6	9962.4	6848.3
65°	8526.9	8618.5	9074.4	10234.1	11713.9	12103.8	12202.1	11935.4	11062.1	9084.2	5570.4
67.5°	8763.2	8930.6	9743.8	11275.7	12828.3	13261.5	13225.0	11989.5	9926.9	6927.1	3574.7
69°	8714.0	8892.2	9898.3	11594.8	13198.4	13591.4	13360.0	11326.9	8457.1	5018.1	2194.5
70°	8519.0	8699.2	9818.7	11582.8	13245.8	13557.0	13110.0	10508.8	7150.6	3669.2	1372.4
72.5°	7114.1	7269.8	8717.0	10469.3	12202.1	11949.2	10967.5	7280.6	3484.3	999.3	309.1
75°	4379.1	4465.8	6254.7	7886.9	9216.2	8566.3	7307.2	3622.1	1038.7	282.5	171.2
77.5°	2313.7	2353.0	3424.2	4648.9	5842.1	4834.0	3745.2	1412.8	478.4	177.2	124.1
80°	1367.5	1397.0	1844.0	2125.6	2528.3	2111.7	1497.5	867.4	342.7	111.3	110.2
82.5°	782.8	801.4	1336.9	1181.5	996.3	850.7	745.2	822.0	205.7	74.7	114.3
85°	287.5	291.4	752.2	898.8	592.7	352.4	370.2	681.3	55.2	47.3	89.7
87.5°	133.8	131.0	386.9	550.3	346.6	223.5	288.4	149.7	21.6	30.5	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



REPORT NUMBER: P269403

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-7027-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1	2471.1
2.5°	2441.7	2405.2	2339.2	2271.3	2202.4	2149.3	2097.1	2055.7	2041.8	2016.2	2018.3
5°	2366.8	2299.8	2162.0	2022.3	1876.5	1756.4	1643.2	1551.6	1507.3	1462.0	1462.0
7.5°	2301.7	2204.4	1988.8	1761.2	1526.0	1328.1	1149.9	1016.1	942.2	883.2	882.1
10°	2277.3	2145.3	1844.0	1518.1	1190.3	920.6	708.9	572.9	503.1	457.7	455.8
12.5°	2288.1	2124.6	1732.8	1293.6	882.1	591.8	410.5	322.9	293.3	279.6	279.6
15°	2319.6	2118.7	1621.5	1074.2	623.2	370.2	272.7	249.1	247.2	247.2	247.2
17.5°	2358.0	2120.7	1507.3	860.4	424.3	264.8	235.3	232.3	234.3	234.3	234.3
20°	2397.2	2121.6	1384.3	662.6	299.2	230.3	221.5	220.5	222.5	222.5	223.5
22.5°	2445.5	2126.6	1261.2	495.2	247.2	217.6	210.7	210.7	211.7	211.7	210.7
25°	2500.7	2136.3	1133.2	367.2	225.5	208.8	202.7	201.8	202.7	201.8	200.9
27.5°	2569.6	2150.3	990.4	287.5	215.7	199.9	194.9	194.9	193.9	193.0	192.0
30°	2656.3	2166.0	829.9	244.2	205.7	192.0	187.0	186.0	185.1	183.2	183.2
32.5°	2788.2	2200.4	671.5	221.5	194.9	181.2	177.2	177.2	175.3	173.3	172.2
35°	2990.9	2268.3	529.7	207.8	183.2	169.3	164.4	164.4	162.5	161.4	160.4
37.5°	3271.5	2371.7	411.6	194.9	171.2	156.6	151.6	150.6	148.7	146.8	145.7
40°	3644.8	2499.8	323.8	183.2	159.4	143.8	139.7	137.8	133.8	131.0	131.0
42.5°	4113.2	2645.4	262.8	170.3	145.7	132.0	128.9	126.0	119.1	116.2	115.3
45°	4603.6	2776.3	222.5	155.5	132.0	120.2	118.1	113.2	104.4	101.4	101.4
47.5°	4957.0	2806.8	195.9	141.8	119.1	107.3	106.3	97.5	89.7	87.7	86.6
50°	5177.7	2746.7	174.2	128.0	107.3	95.5	92.5	81.7	76.7	74.7	73.8
52.5°	5326.3	2639.5	156.6	116.2	96.5	84.7	77.8	69.9	65.9	64.0	64.0
55°	5445.3	2487.9	138.8	105.3	87.7	75.7	65.9	60.0	56.1	54.2	54.2
57.5°	5478.9	2282.1	121.1	96.5	78.7	67.0	56.1	52.2	47.3	46.3	46.3
60°	5235.7	1911.0	107.3	85.7	70.8	58.1	49.2	44.2	39.3	38.4	37.4
62.5°	4594.8	1478.8	94.5	75.7	62.1	50.2	42.3	36.4	32.5	32.5	32.5
65°	3504.8	991.4	82.7	65.9	54.2	42.3	36.4	29.6	27.6	27.6	28.6
67.5°	2098.0	539.5	70.8	56.1	46.3	35.5	30.5	25.6	24.7	25.6	25.6
69°	1229.7	317.0	64.0	50.2	40.3	31.5	26.6	22.6	24.7	25.6	25.6
70°	759.1	213.6	59.1	45.3	36.4	28.6	24.7	21.6	23.6	24.7	24.7
72.5°	211.7	110.2	47.3	35.5	29.6	23.6	19.8	19.8	22.6	23.6	23.6
75°	137.8	81.7	36.4	26.6	22.6	18.8	16.8	18.8	21.6	22.6	22.6
77.5°	114.3	67.0	29.6	21.6	18.8	17.7	15.7	16.8	19.8	20.8	20.8
80°	104.4	47.3	23.6	19.8	16.8	15.7	14.7	13.7	17.7	18.8	18.8
82.5°	99.4	37.4	20.8	17.7	15.7	13.7	12.8	13.7	15.7	16.8	17.7
85°	62.1	24.7	18.8	16.8	13.7	12.8	12.8	12.8	14.7	15.7	15.7
87.5°	22.6	19.8	16.8	13.7	11.8	11.8	11.8	11.8	12.8	14.7	14.7
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)