

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: P269328

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269328  
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-05-LED-E1-SL4-7027-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 20977.2 lumens  
Efficiency: N/A  
Efficacy: 75.2 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 - G4

Input Watts (W): 279  
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

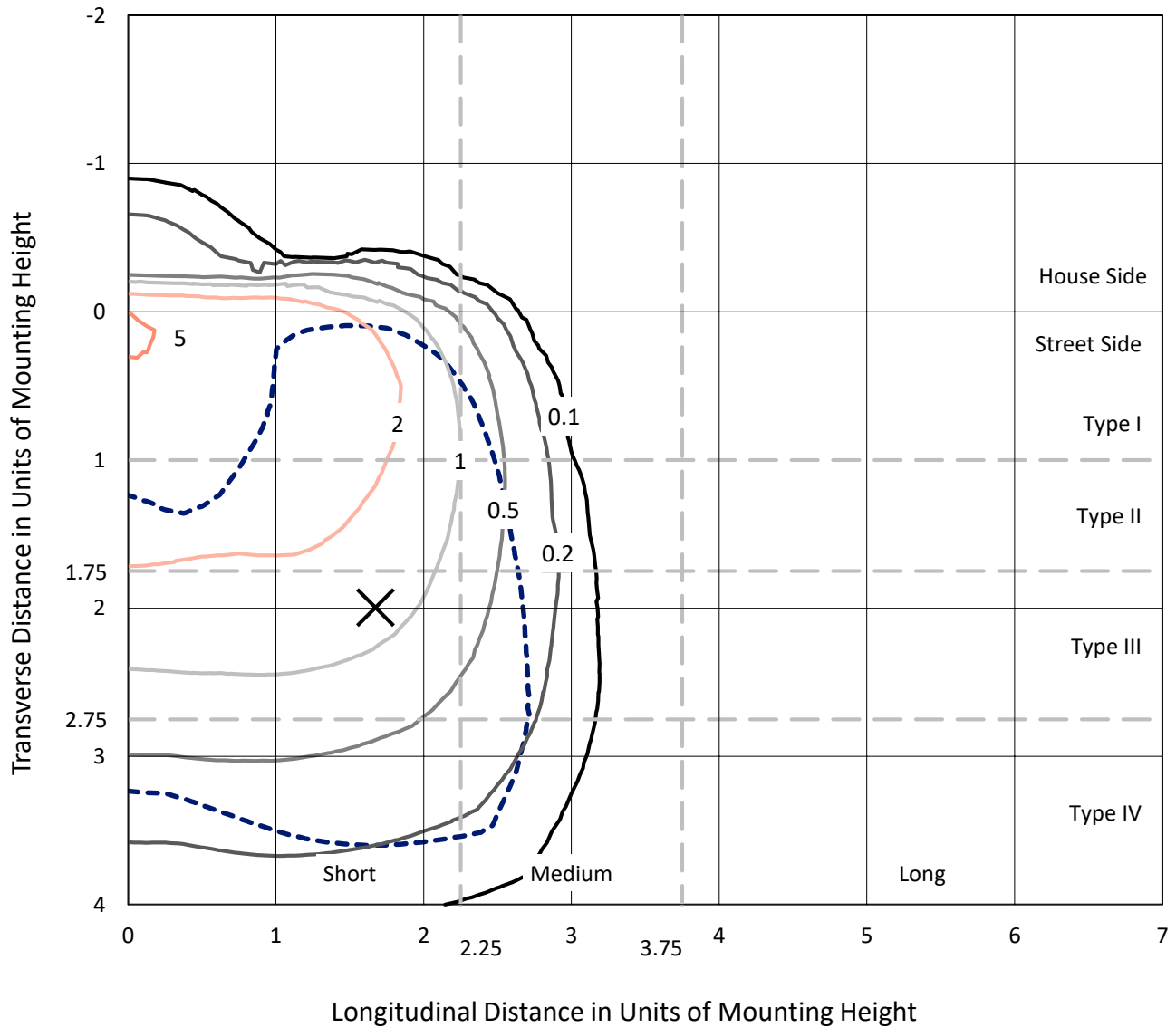


REPORT NUMBER: P269328

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

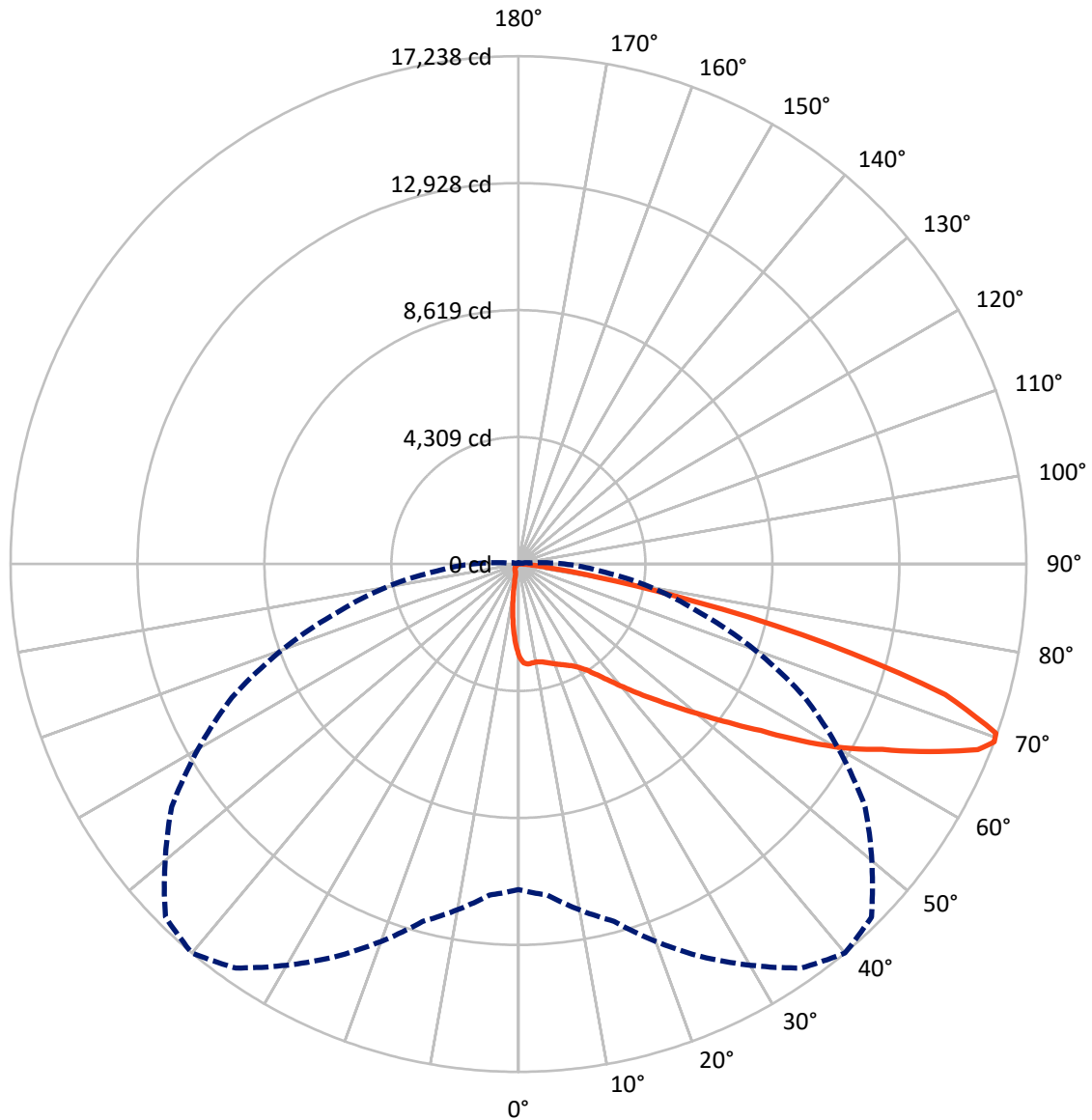


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269328

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269328

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-HSS

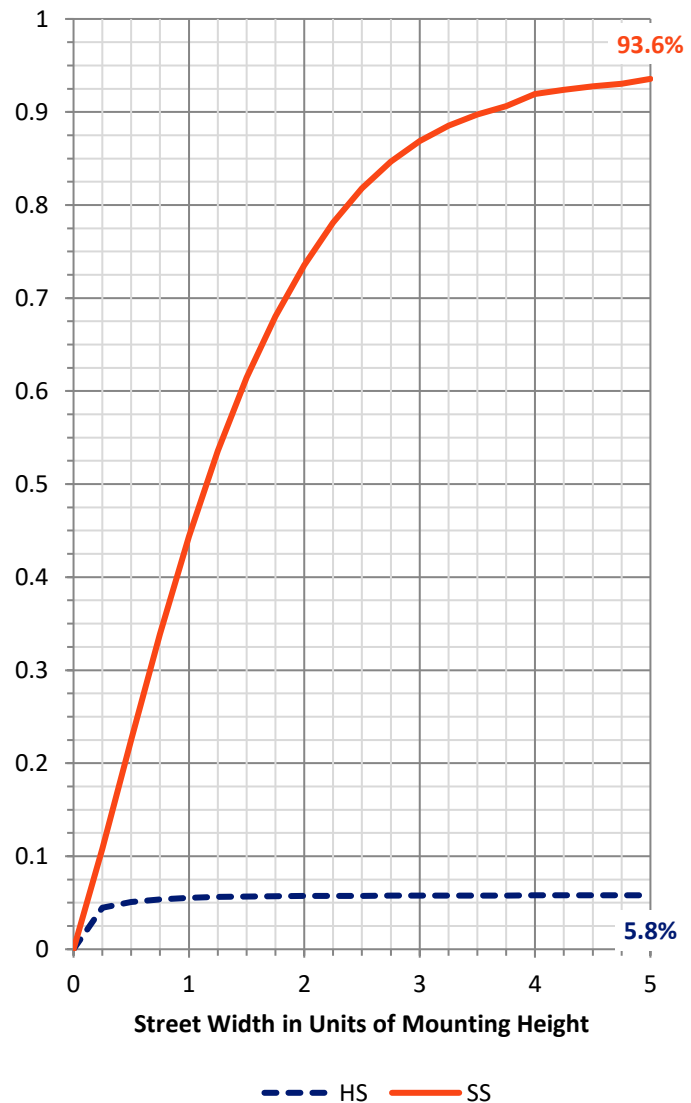
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1227.3	0.0	1227.3
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	19749.9	0.0	19749.9
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	20977.2	0.0	20977.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.1	1.2
10°-20°	624.9	3.0
20°-30°	1052.6	5.0
30°-40°	1723.1	8.2
40°-50°	2983.5	14.2
50°-60°	4699.3	22.4
60°-70°	6137.0	29.3
70°-80°	3160.9	15.1
80°-90°	341.9	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°	20977.2	100.0
0°-180°	20977.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P269328

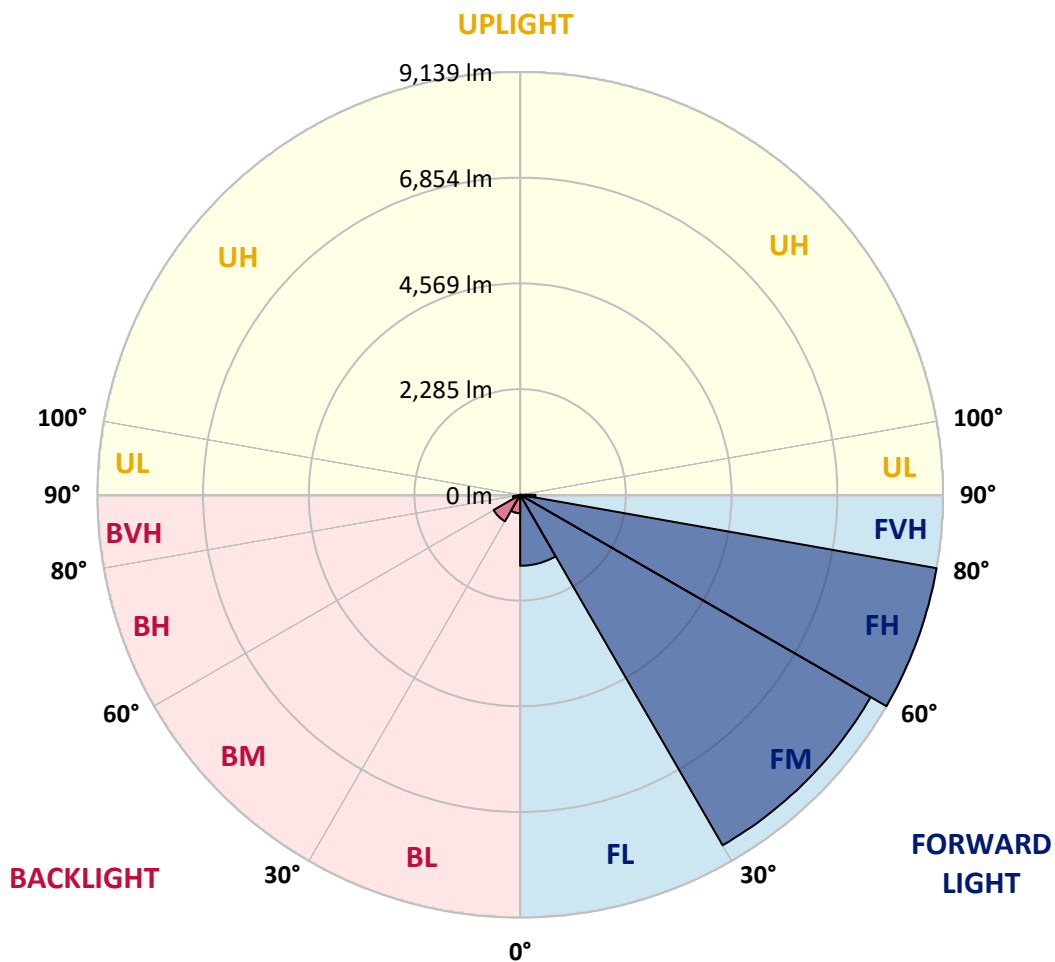
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1534.0	7.3			
FM	(30°-60°)	8746.2	41.7			
FH	(60°-80°)	9138.5	43.6			G4/12000
FVH	(80°-90°)	331.2	1.6			G3/500
BL	(0°-30°)	397.6	1.9	B1/500		
BM	(30°-60°)	659.6	3.1	B1/1000		
BH	(60°-80°)	159.4	0.8	B1/500		G1/500
BVH	(80°-90°)	10.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





REPORT NUMBER: P269328

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0
2.5°	3441.2	3422.5	3411.4	3396.3	3377.5	3361.4	3355.1	3308.8	3265.2	3205.3	3136.6
5°	3504.9	3498.7	3478.7	3458.7	3436.2	3411.4	3397.6	3342.7	3280.3	3192.8	3072.9
7.5°	3511.1	3503.7	3478.7	3451.3	3420.0	3390.1	3366.4	3311.4	3254.0	3165.3	3019.3
10°	3501.2	3492.5	3473.7	3443.7	3405.0	3376.3	3352.7	3300.2	3251.4	3171.6	3009.2
12.5°	3489.9	3481.2	3472.5	3457.4	3423.8	3403.8	3383.8	3333.9	3290.2	3222.8	3045.4
15°	3501.2	3496.3	3506.3	3499.9	3481.2	3463.8	3443.7	3398.7	3358.9	3302.7	3111.5
17.5°	3548.7	3548.7	3579.8	3583.6	3566.1	3541.2	3512.5	3467.5	3433.9	3386.3	3190.3
20°	3659.8	3656.0	3695.9	3703.5	3661.0	3622.3	3579.8	3524.9	3498.7	3468.7	3267.8
22.5°	3850.9	3833.3	3857.1	3849.5	3766.0	3706.0	3653.5	3586.2	3572.4	3558.6	3353.8
25°	4099.3	4089.4	4105.6	4032.0	3884.5	3803.3	3740.9	3664.7	3664.7	3678.5	3451.3
27.5°	4460.2	4422.7	4367.7	4237.9	4017.0	3913.2	3845.9	3764.6	3785.8	3837.1	3579.8
30°	4829.7	4788.5	4662.5	4462.7	4177.9	4069.3	3990.7	3905.8	3955.6	4049.4	3752.2
32.5°	5194.4	5148.1	4969.7	4717.4	4409.1	4300.4	4224.2	4130.5	4214.2	4371.5	4004.5
35°	5547.8	5506.5	5300.4	5003.3	4716.1	4626.2	4556.4	4475.1	4582.6	4802.2	4360.3
37.5°	5944.9	5899.9	5648.9	5326.7	5089.4	5024.6	4973.3	4892.2	5079.5	5401.7	4856.0
40°	6433.0	6356.9	6018.5	5697.6	5521.5	5490.4	5455.3	5444.1	5735.0	6180.8	5516.5
42.5°	6992.4	6867.5	6405.5	6088.4	5995.9	6018.5	6009.8	6059.6	6555.4	7149.7	6320.7
45°	7551.8	7390.7	6836.3	6505.4	6517.9	6596.7	6645.3	6845.1	7583.0	8261.1	7185.9
47.5°	8026.3	7867.7	7249.6	6956.2	7106.0	7260.9	7393.2	7771.5	8639.4	9354.9	7859.0
50°	8432.1	8282.3	7688.0	7451.9	7789.1	8038.8	8253.5	8814.2	9775.6	10187.7	8331.1
52.5°	8764.3	8664.3	8142.4	8020.1	8569.4	8935.4	9249.9	9921.7	10782.0	10864.6	8698.1
55°	9087.7	9016.5	8630.6	8695.6	9485.9	9984.2	10382.5	11096.8	11648.6	11428.9	9050.2
57.5°	9459.7	9394.8	9187.5	9552.1	10690.9	11317.7	11752.3	12138.1	12411.5	12005.8	9382.3
60°	9839.3	9801.9	9806.8	10503.6	12074.4	12676.3	12916.0	13015.9	13160.7	12549.0	9401.0
62.5°	10201.4	10272.6	10514.8	11562.4	13399.2	13861.2	13982.4	14081.0	13911.2	12635.0	8685.6
65°	10814.5	10930.7	11508.7	12979.7	14856.3	15350.9	15475.7	15137.2	14029.8	11521.2	7064.8
67.5°	11114.2	11326.5	12357.9	14300.7	16269.8	16819.2	16773.1	15206.0	12590.0	8785.5	4533.8
69°	11051.8	11277.9	12554.0	14705.3	16739.3	17237.5	16944.1	14365.7	10725.9	6364.3	2783.2
70°	10804.5	11033.1	12452.8	14690.3	16799.4	17193.9	16627.0	13328.1	9068.8	4653.7	1740.6
72.5°	9022.8	9220.1	11055.5	13278.0	15475.7	15154.9	13910.0	9233.8	4418.9	1267.4	392.1
75°	5554.0	5663.9	7932.7	10002.8	11688.6	10864.6	9267.5	4593.8	1317.4	358.3	217.3
77.5°	2934.4	2984.3	4342.8	5896.1	7409.5	6130.8	4749.9	1791.8	606.9	224.8	157.4
80°	1734.4	1771.8	2338.6	2695.9	3206.5	2678.3	1899.1	1100.1	434.5	141.2	139.9
82.5°	992.6	1016.4	1695.7	1498.4	1263.6	1078.9	945.2	1042.7	261.0	95.0	144.8
85°	364.6	369.7	954.0	1139.9	751.7	446.9	469.5	864.1	69.9	59.9	113.6
87.5°	169.8	166.0	490.7	698.1	439.5	283.4	365.9	189.8	27.5	38.6	31.3
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: P269328

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0
2.5°	3096.6	3050.5	2966.8	2880.7	2793.2	2725.7	2659.6	2607.2	2589.8	2557.3	2559.7
5°	3001.7	2916.8	2742.0	2564.8	2379.9	2227.5	2084.0	1967.8	1911.7	1854.2	1854.2
7.5°	2919.3	2795.7	2522.4	2233.8	1935.4	1684.4	1458.4	1288.6	1194.9	1120.0	1118.7
10°	2888.1	2720.7	2338.6	1925.3	1509.6	1167.4	899.1	726.6	638.1	580.7	578.1
12.5°	2901.9	2694.6	2197.7	1640.8	1118.7	750.4	520.7	409.5	372.1	354.7	354.7
15°	2941.8	2687.1	2056.5	1362.3	790.4	469.5	345.8	315.9	313.4	313.4	313.4
17.5°	2990.5	2689.5	1911.7	1091.4	538.2	335.8	298.4	294.6	297.2	297.2	297.2
20°	3040.5	2690.9	1755.6	840.4	379.7	292.2	280.9	279.7	282.2	282.2	283.4
22.5°	3101.7	2697.2	1599.5	628.0	313.4	276.0	267.2	267.2	268.5	268.5	267.2
25°	3171.6	2709.6	1437.2	465.7	285.9	264.7	257.3	255.9	257.3	255.9	254.7
27.5°	3259.1	2727.1	1256.1	364.6	273.4	253.5	247.3	247.3	246.0	244.8	243.5
30°	3368.9	2747.0	1052.6	309.6	261.0	243.5	237.2	236.0	234.7	232.2	232.2
32.5°	3536.2	2790.8	851.6	280.9	247.3	229.7	224.8	224.8	222.3	219.7	218.5
35°	3793.5	2876.9	671.8	263.5	232.2	214.8	208.5	208.5	206.0	204.8	203.6
37.5°	4149.2	3008.0	521.9	247.3	217.3	198.5	192.2	191.0	188.6	186.0	184.8
40°	4622.5	3170.3	410.9	232.2	202.3	182.3	177.3	174.8	169.8	166.0	166.0
42.5°	5216.8	3355.1	333.5	216.0	184.8	167.4	163.6	159.8	151.1	147.3	146.1
45°	5838.7	3521.1	282.2	197.3	167.4	152.4	149.8	143.5	132.4	128.5	128.5
47.5°	6287.0	3560.0	248.6	179.8	151.1	136.2	134.8	123.5	113.6	111.1	110.0
50°	6566.6	3483.7	221.1	162.4	136.2	121.1	117.4	103.7	97.3	95.0	93.7
52.5°	6755.2	3347.7	198.5	147.3	122.3	107.3	98.6	88.7	83.6	81.1	81.1
55°	6906.3	3155.3	176.1	133.6	111.1	96.2	83.6	76.1	71.1	68.7	68.7
57.5°	6948.7	2894.3	153.6	122.3	99.9	84.9	71.1	66.1	59.9	58.7	58.7
60°	6640.4	2423.6	136.2	108.7	89.9	73.8	62.4	56.1	49.9	48.7	47.4
62.5°	5827.5	1875.5	119.8	96.2	78.6	63.7	53.7	46.3	41.2	41.2	41.2
65°	4445.3	1257.4	104.9	83.6	68.7	53.7	46.3	37.5	34.9	34.9	36.2
67.5°	2660.9	684.2	89.9	71.1	58.7	44.9	38.6	32.5	31.3	32.5	32.5
69°	1559.5	402.1	81.1	63.7	51.3	40.0	33.6	28.7	31.3	32.5	32.5
70°	962.8	271.0	74.9	57.4	46.3	36.2	31.3	27.5	30.0	31.3	31.3
72.5°	268.5	139.9	59.9	44.9	37.5	30.0	25.0	25.0	28.7	30.0	30.0
75°	174.8	103.7	46.3	33.6	28.7	23.7	21.2	23.7	27.5	28.7	28.7
77.5°	144.8	84.9	37.5	27.5	23.7	22.5	20.0	21.2	25.0	26.2	26.2
80°	132.4	59.9	30.0	25.0	21.2	20.0	18.8	17.4	22.5	23.7	23.7
82.5°	126.1	47.4	26.2	22.5	20.0	17.4	16.2	17.4	20.0	21.2	22.5
85°	78.6	31.3	23.7	21.2	17.4	16.2	16.2	16.2	18.8	20.0	20.0
87.5°	28.7	25.0	21.2	17.4	15.0	15.0	15.0	15.0	16.2	18.8	18.8
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)