

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: P269231

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18954.3 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 258
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

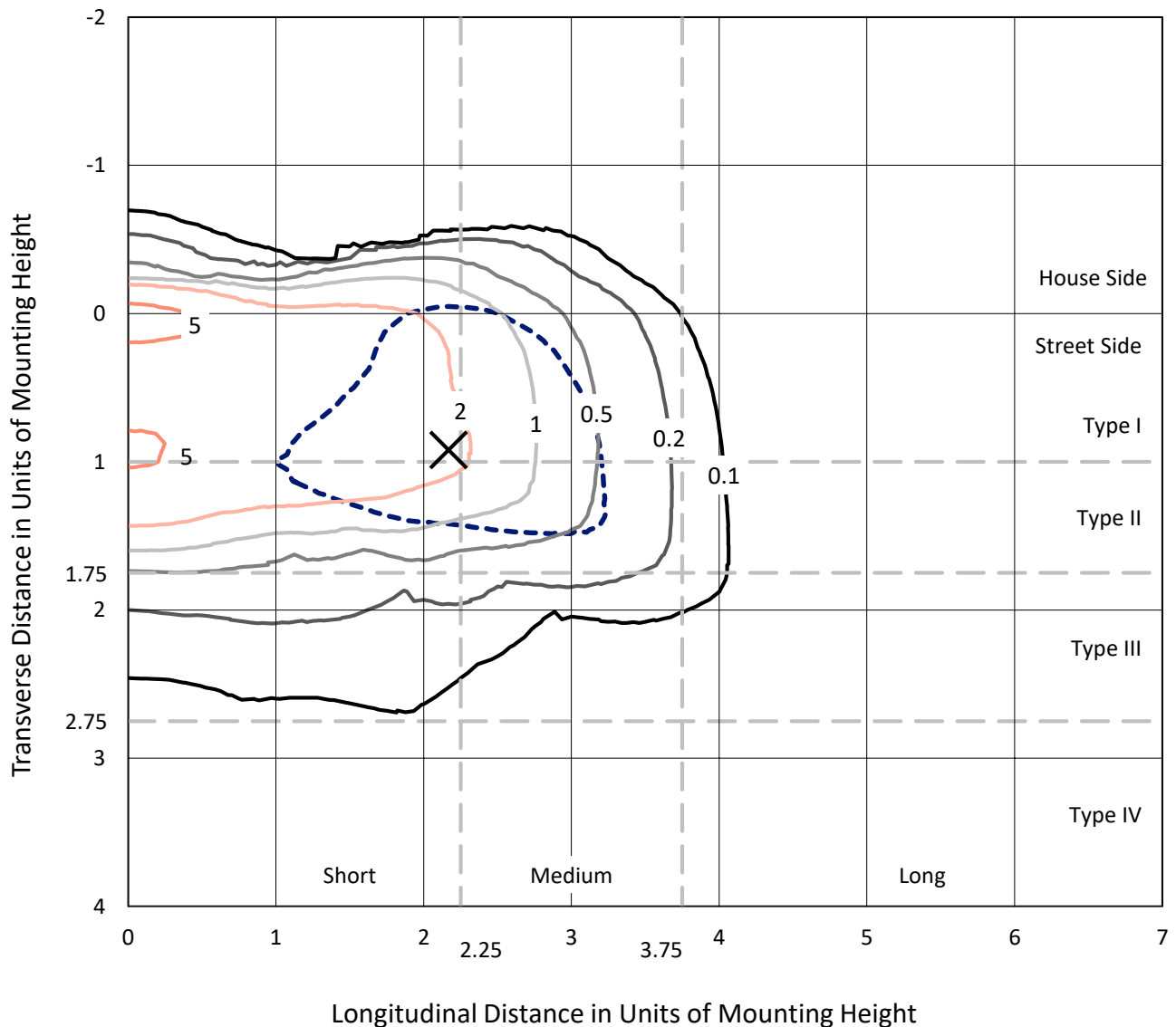


REPORT NUMBER: P269231

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

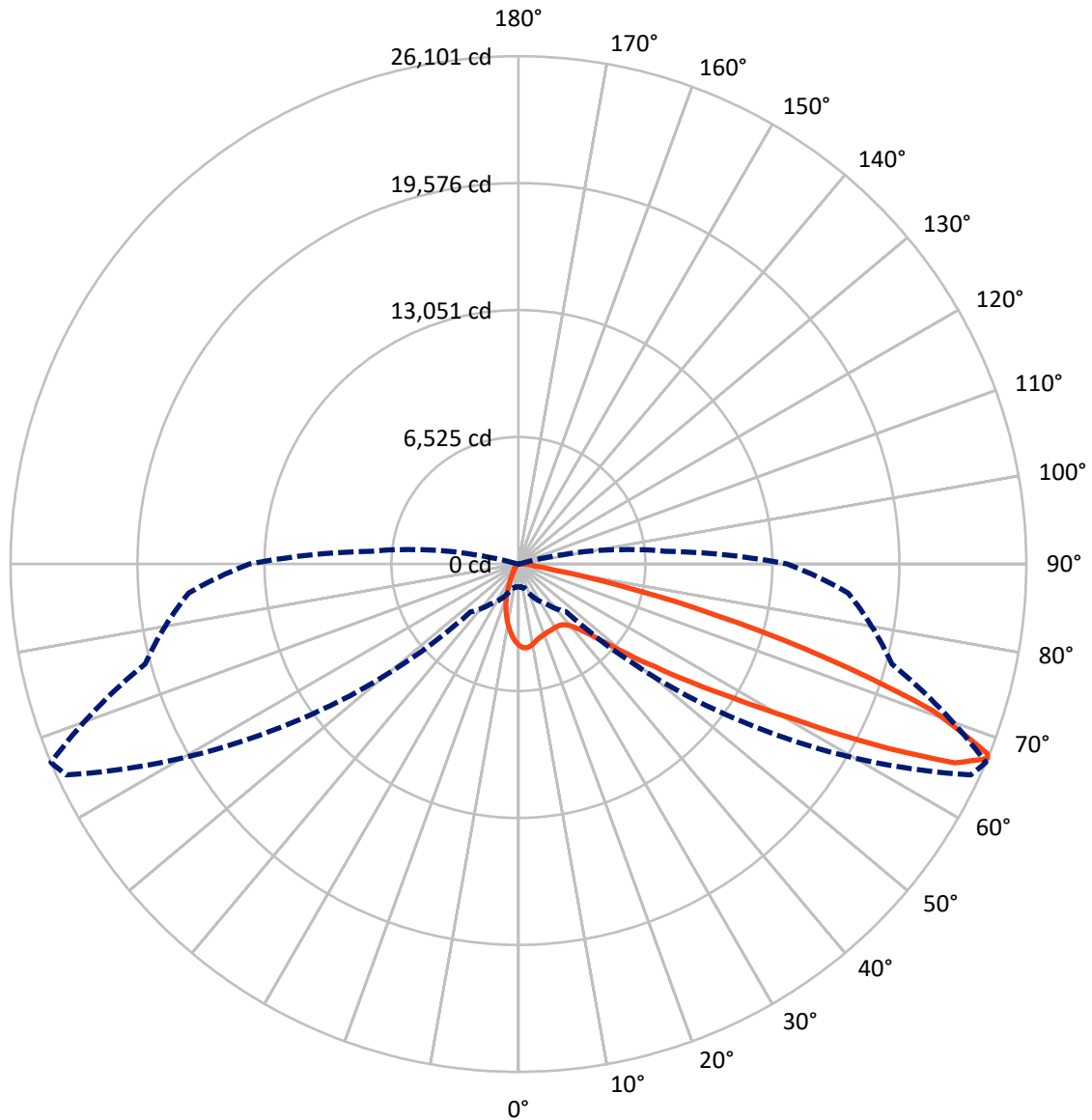


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269231

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P269231

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200-HSS

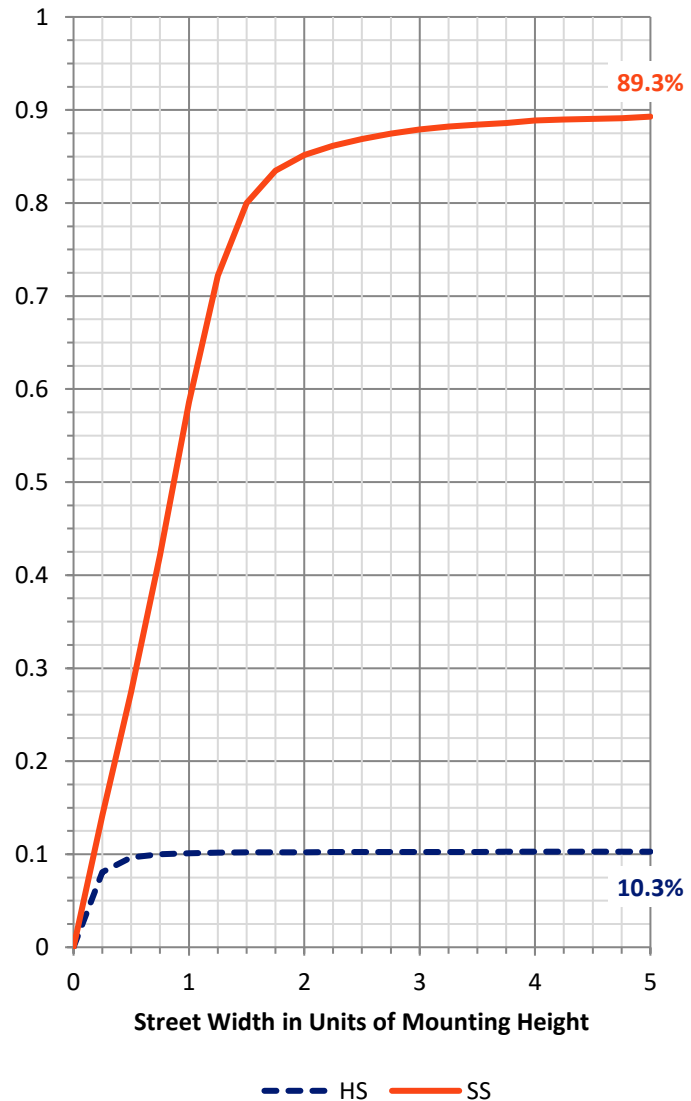
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.0	0.0	1968.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16986.3	0.0	16986.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	18954.3	0.0	18954.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	1.8
10°-20°	723.9	3.8
20°-30°	1052.5	5.6
30°-40°	1642.0	8.7
40°-50°	2908.7	15.3
50°-60°	4602.7	24.3
60°-70°	5271.8	27.8
70°-80°	2186.7	11.5
80°-90°	225.9	1.2
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°	18954.3	100.0
0°-180°	18954.3	100.0



REPORT NUMBER: P269231

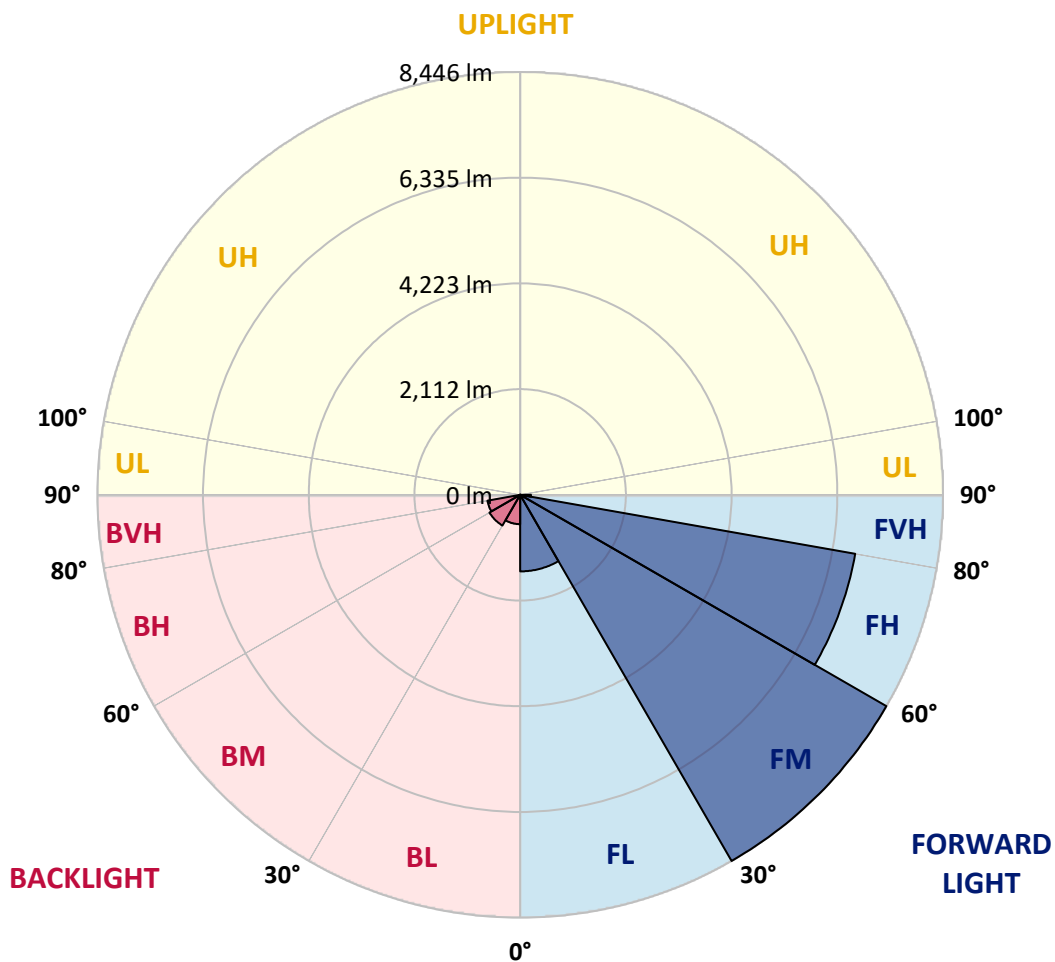
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.3	8.1			
FM (30°-60°)	8446.1	44.6			
FH (60°-80°)	6795.2	35.9			G3/7500
FVH (80°-90°)	215.7	1.1			G2/225
BL (0°-30°)	587.3	3.1	B2/1000		
BM (30°-60°)	707.3	3.7	B1/1000		
BH (60°-80°)	663.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.2	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-G3

Type II Short





REPORT NUMBER: P269231

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2
2.5°	4321.7	4330.5	4329.4	4335.9	4351.5	4352.6	4337.1	4307.3	4300.6	4262.0	4194.5
5°	3985.6	4011.0	4026.5	4089.4	4160.2	4245.4	4309.4	4332.7	4329.4	4301.8	4200.0
7.5°	3601.9	3627.4	3645.1	3719.2	3813.0	3959.0	4125.9	4263.0	4275.3	4305.0	4195.7
10°	3346.5	3350.9	3375.3	3446.1	3544.4	3693.7	3892.6	4132.7	4169.0	4278.5	4184.6
12.5°	3136.5	3139.8	3171.8	3248.1	3353.2	3503.5	3712.4	3990.0	4046.3	4245.4	4182.4
15°	2987.3	2999.4	3028.1	3107.7	3219.3	3368.6	3583.1	3885.0	3952.5	4233.3	4202.2
17.5°	2937.5	2950.8	2959.6	3017.0	3118.7	3264.7	3484.7	3816.4	3892.6	4239.8	4241.0
20°	2989.5	2999.4	2979.5	2994.0	3056.9	3187.4	3401.8	3757.8	3848.5	4247.5	4290.8
22.5°	3183.0	3187.4	3133.2	3070.1	3059.1	3131.0	3336.6	3711.3	3808.6	4268.6	4349.4
25°	3514.6	3506.9	3418.4	3282.4	3154.2	3121.0	3297.9	3682.6	3788.8	4290.8	4410.0
27.5°	3914.9	3925.9	3804.2	3606.3	3362.0	3187.4	3292.4	3670.5	3779.9	4306.1	4463.1
30°	4401.2	4416.7	4277.4	4028.7	3678.2	3350.9	3343.2	3668.3	3774.4	4296.2	4467.6
32.5°	4897.6	4916.5	4807.0	4550.5	4100.6	3625.1	3458.2	3692.7	3785.5	4262.0	4442.2
35°	5417.3	5443.8	5370.8	5150.8	4673.3	4021.0	3660.6	3766.7	3837.4	4258.7	4416.7
37.5°	6134.7	6159.0	6022.0	5788.8	5366.5	4551.6	3985.6	3906.0	3960.2	4311.8	4423.3
40°	7206.1	7202.8	6848.9	6492.0	6128.1	5226.0	4442.2	4158.1	4185.7	4472.0	4505.2
42.5°	8373.6	8368.0	7845.1	7302.2	6973.9	6056.4	5042.5	4593.7	4574.8	4767.1	4717.4
45°	9273.5	9272.3	8845.6	8234.3	7992.1	7009.2	5818.6	5199.5	5170.7	5247.0	5108.8
47.5°	9657.0	9663.7	9449.2	9019.3	9120.9	8298.4	6797.0	6077.4	6034.2	6003.3	5793.2
50°	9358.6	9371.8	9389.5	9305.5	9949.0	10030.7	8109.3	7314.4	7293.3	7155.2	6826.8
52.5°	8383.5	8451.0	8658.9	8925.2	10236.5	11693.5	10166.7	8851.2	8738.4	8591.3	8229.8
55°	6740.6	6814.7	7209.3	7856.1	9808.6	12785.8	13050.0	10832.3	10644.3	10205.5	9683.5
57.5°	4461.0	4576.0	5148.6	5971.2	8565.9	12961.6	15926.8	13581.8	12927.4	11725.7	11137.5
60°	2457.7	2568.3	3189.5	3934.7	6186.7	12092.7	17861.4	17161.7	16005.2	13424.9	12903.1
62.5°	1513.6	1573.2	2032.1	2725.2	3710.3	9544.3	18261.7	21660.2	20321.4	15612.8	15035.7
65°	1205.0	1230.5	1455.0	2227.6	2660.1	5677.1	16969.3	25089.8	24643.1	18261.7	16945.0
67°	1169.8	1179.7	1285.7	1912.6	2507.3	3480.4	14216.4	25648.0	26101.2	19864.8	17004.6
67.5°	1177.4	1188.5	1289.1	1825.3	2502.9	3198.3	13267.8	25428.1	26000.6	19991.9	16740.5
70°	1135.4	1169.8	1475.9	1824.2	2380.2	2657.7	7945.7	22031.7	22627.5	18575.7	14204.3
72.5°	402.4	404.6	637.8	1475.9	2588.1	2686.6	3990.0	16151.2	16592.4	14209.7	10240.9
75°	238.8	203.5	212.3	420.0	2473.2	2609.1	2301.7	10320.4	10485.1	8142.4	5186.3
77.5°	164.7	143.6	148.1	185.7	942.0	2572.7	1828.6	5381.8	5206.0	2855.7	1104.5
80°	94.0	83.0	88.5	162.6	342.8	2400.2	1724.7	2182.4	1860.7	484.2	305.2
82.5°	49.8	42.0	50.8	133.8	238.8	1495.9	1728.0	1054.7	835.9	163.6	207.9
85°	17.6	14.4	24.3	91.7	159.2	458.9	1601.9	886.6	696.5	79.6	158.1
87.5°	3.4	3.4	9.9	37.5	64.0	140.4	947.4	526.2	352.7	47.5	108.3
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: P269231

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2	4180.2
2.5°	4166.9	4119.4	4055.2	3976.6	3883.8	3802.0	3741.3	3678.2	3664.9	3642.8	3639.6
5°	4139.2	4057.5	3898.3	3715.7	3521.3	3345.5	3202.8	3075.6	3019.4	2970.7	2965.1
7.5°	4098.3	3975.5	3704.7	3410.7	3106.7	2830.2	2595.8	2430.1	2277.5	2204.5	2193.4
10°	4050.7	3875.0	3487.0	3079.0	2658.9	2268.6	1920.3	1628.4	1451.7	1346.6	1333.4
12.5°	4006.6	3776.7	3264.7	2735.2	2176.9	1655.0	1207.3	928.7	743.0	667.8	658.8
15°	3985.6	3697.1	3056.9	2383.7	1672.7	1053.6	660.1	510.7	450.1	432.3	431.1
17.5°	3983.4	3629.6	2853.5	2019.8	1171.8	612.5	430.1	392.5	380.3	375.9	375.9
20°	3982.2	3565.5	2650.0	1642.9	744.1	408.0	358.2	349.4	340.5	335.0	335.0
22.5°	3994.5	3507.9	2437.8	1258.2	468.7	330.5	315.0	306.2	295.3	287.5	286.3
25°	4006.6	3463.8	2221.1	895.5	339.4	287.5	271.9	259.8	244.2	234.4	233.3
27.5°	4008.7	3408.4	1988.8	599.2	284.1	250.9	231.0	212.3	194.7	184.6	183.6
30°	3975.5	3315.6	1731.4	404.6	250.9	217.7	191.2	171.3	154.8	147.1	147.1
32.5°	3910.4	3200.7	1448.2	305.2	223.3	186.8	158.1	139.2	128.3	125.0	123.8
35°	3851.8	3076.8	1157.6	258.7	200.1	158.1	129.4	117.1	110.5	109.5	108.3
37.5°	3817.4	2977.3	884.4	234.4	178.0	132.7	109.5	100.6	97.2	95.1	96.2
40°	3844.0	2894.3	653.3	214.4	155.9	110.5	92.9	88.5	85.1	84.0	84.0
42.5°	3960.2	2880.0	485.4	196.8	134.8	91.7	80.7	77.3	75.2	74.1	75.2
45°	4265.2	2968.4	377.0	180.2	113.8	77.3	68.5	67.5	66.4	66.4	66.4
47.5°	4724.0	3150.9	314.0	161.4	95.1	66.4	59.6	58.6	57.5	58.6	58.6
50°	5501.3	3484.7	280.8	142.7	78.5	56.4	50.8	50.8	50.8	50.8	51.9
52.5°	6683.1	4141.5	258.7	123.8	64.0	47.5	43.1	43.1	44.2	44.2	45.4
55°	7999.9	5012.6	238.8	105.0	54.2	39.9	35.4	36.6	37.5	38.6	38.6
57.5°	9428.3	5977.9	222.2	86.2	46.4	32.1	29.9	30.9	32.1	34.2	34.2
60°	11151.7	7022.5	197.8	67.5	38.6	25.4	23.3	25.4	28.7	30.9	32.1
62.5°	13044.6	8033.1	166.9	53.1	32.1	19.9	18.8	23.3	27.7	29.9	30.9
65°	14338.0	8350.4	128.3	43.1	24.3	14.4	15.5	21.0	26.5	29.9	29.9
67°	13814.0	7570.9	105.0	36.6	19.9	11.0	14.4	21.0	26.5	28.7	29.9
67.5°	13450.3	7265.9	100.6	35.4	18.8	11.0	14.4	21.0	26.5	29.9	29.9
70°	10944.1	5458.2	84.0	26.5	15.5	9.9	12.1	19.9	25.4	28.7	28.7
72.5°	7604.1	3365.3	75.2	18.8	13.2	8.9	11.0	18.8	24.3	27.7	28.7
75°	3615.1	1218.3	64.0	14.4	12.1	7.7	9.9	18.8	24.3	27.7	27.7
77.5°	737.4	283.1	51.9	12.1	9.9	7.7	8.9	17.6	23.3	26.5	26.5
80°	242.2	109.5	38.6	11.0	9.9	7.7	8.9	16.6	23.3	25.4	26.5
82.5°	174.7	55.2	25.4	11.0	9.9	7.7	7.7	16.6	22.1	25.4	25.4
85°	133.8	38.6	16.6	11.0	9.9	7.7	7.7	15.5	21.0	24.3	24.3
87.5°	88.5	15.5	13.2	11.0	9.9	7.7	7.7	15.5	19.9	23.3	24.3
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)