

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: P323342

Luminaire Tested: **GLEON-SA8D-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8D-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 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: 37863 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

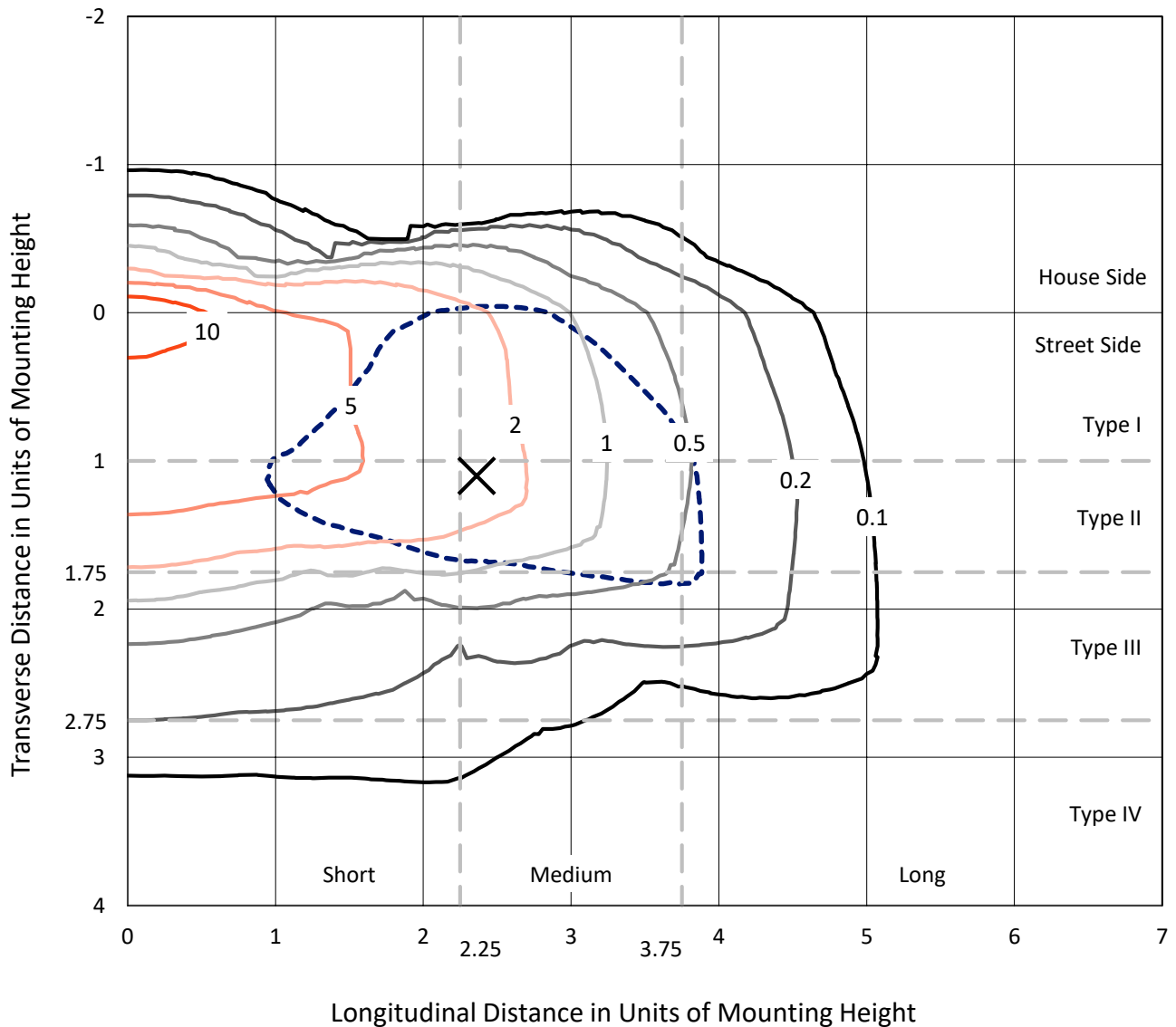
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323342  
 CATALOG NUMBER: GLEON-SA8D-827-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

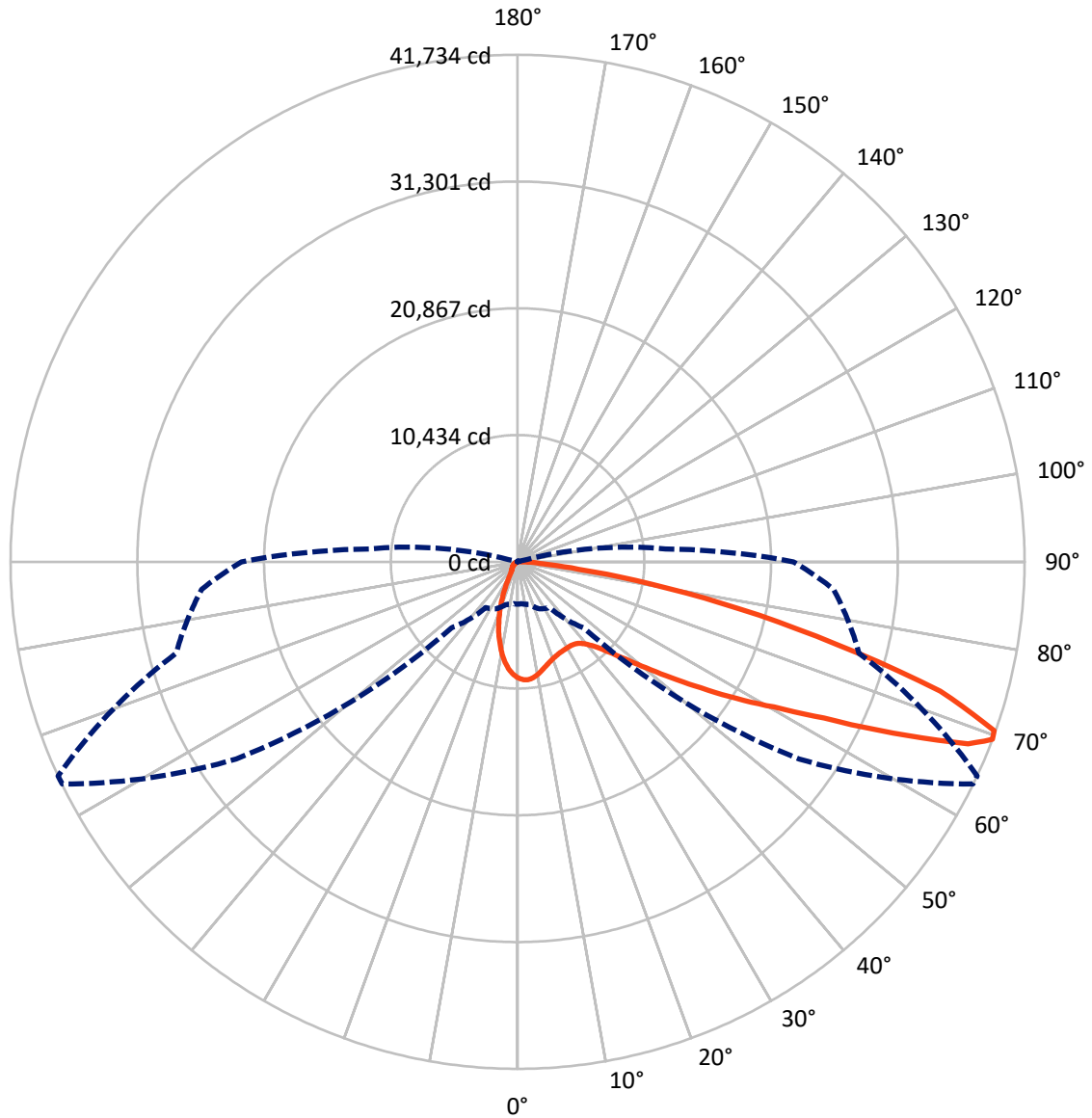
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323342  
CATALOG NUMBER: GLEON-SA8D-827-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323342  
 CATALOG NUMBER: GLEON-SA8D-827-U-SL2-HSS

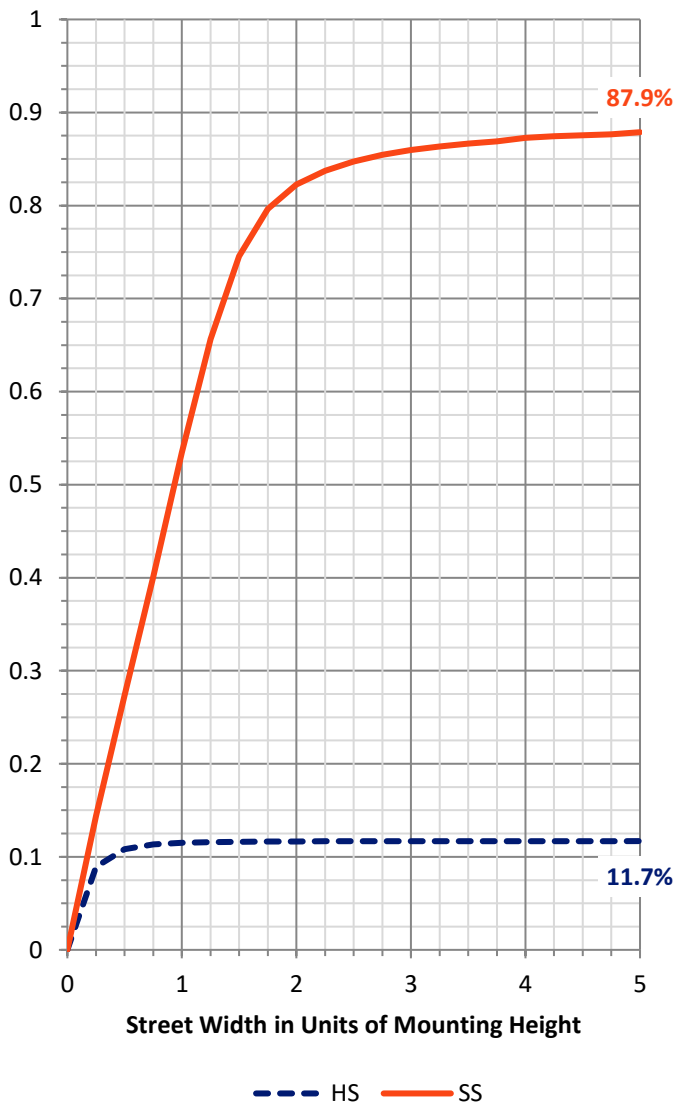
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4463.1	0.0	4463.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	33399.8	0.0	33399.8
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	37863.0	0.0	37863.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.1	2.1
10°-20°	1751.4	4.6
20°-30°	2425.8	6.4
30°-40°	3382.3	8.9
40°-50°	5257.2	13.9
50°-60°	8439.9	22.3
60°-70°	9547.0	25.2
70°-80°	5607.0	14.8
80°-90°	652.2	1.7
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°	37863.0	100.0
0°-180°	37863.0	100.0

**Coefficient of Utilization**

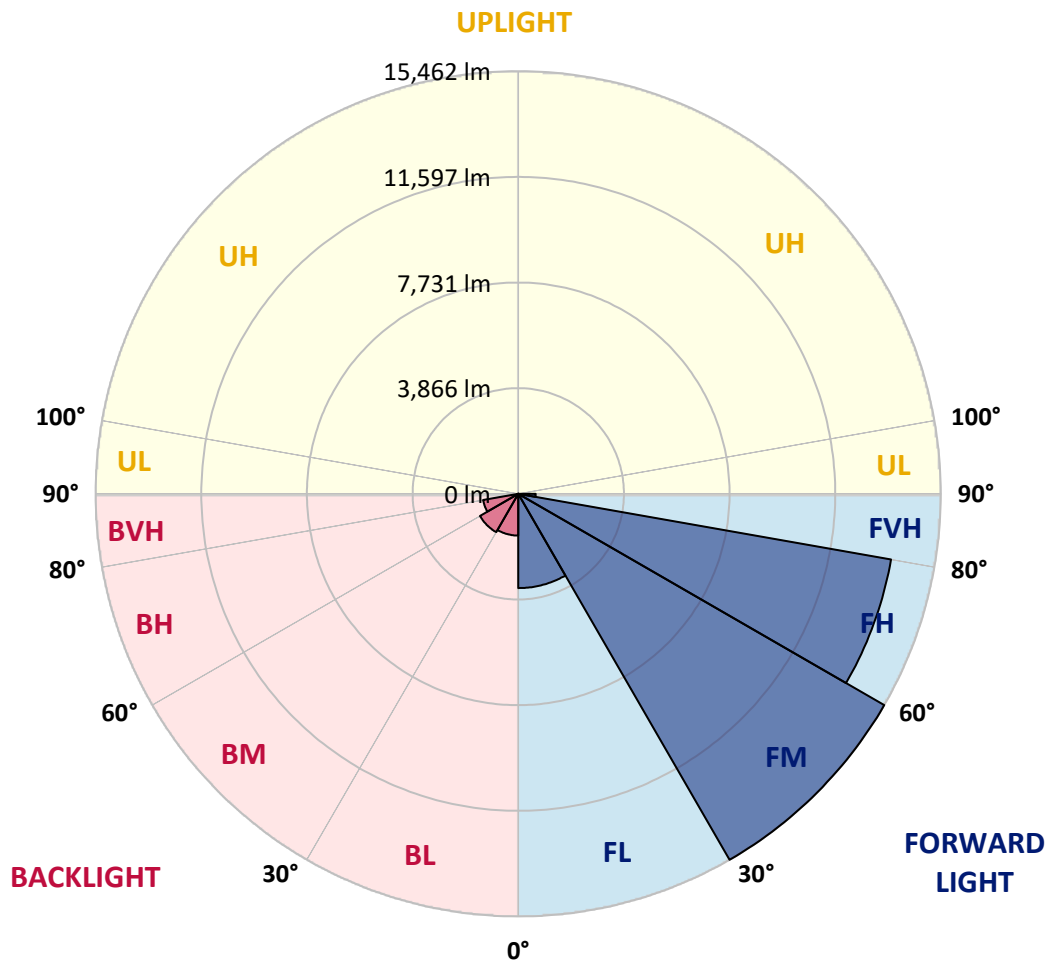


REPORT NUMBER: P323342  
 CATALOG NUMBER: GLEON-SA8D-827-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3450.2	9.1			
FM (30°-60°)	15462.2	40.8			
FH (60°-80°)	13849.9	36.6			G5
FVH (80°-90°)	637.6	1.7			G4/750
BL (0°-30°)	1527.1	4.0	B3/2500		
BM (30°-60°)	1617.3	4.3	B2/2500		
BH (60°-80°)	1304.0	3.4	B3/2500		G3/2500
BVH (80°-90°)	14.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





REPORT NUMBER: P323342

CATALOG NUMBER: GLEON-SA8D-827-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0
2.5°	9653.0	9628.9	9648.2	9689.8	9710.6	9710.6	9726.7	9707.4	9713.8	9667.4	9600.1
5°	9048.9	9012.1	9065.0	9181.9	9326.1	9449.5	9632.1	9728.3	9737.9	9739.5	9661.0
7.5°	8398.5	8364.8	8443.3	8581.1	8767.0	8996.1	9314.9	9593.7	9609.7	9760.3	9702.6
10°	7869.8	7845.7	7937.1	8084.5	8302.3	8558.7	8949.6	9337.3	9383.8	9717.0	9696.2
12.5°	7450.0	7430.8	7517.3	7687.1	7909.8	8193.4	8601.9	9052.2	9114.6	9619.3	9664.2
15°	7144.0	7140.8	7212.9	7376.3	7623.0	7887.4	8305.6	8787.8	8859.9	9513.6	9659.4
17.5°	6983.8	6988.6	7041.5	7180.8	7392.3	7655.1	8055.6	8565.1	8643.6	9419.0	9683.4
20°	6967.8	6972.6	7001.4	7079.9	7251.3	7483.6	7852.1	8377.6	8459.4	9348.6	9721.9
22.5°	7108.7	7105.5	7113.6	7105.5	7201.7	7377.9	7717.6	8233.5	8328.0	9302.1	9752.3
25°	7379.5	7374.7	7371.5	7312.2	7248.1	7342.7	7661.5	8151.7	8241.5	9268.4	9769.9
27.5°	7756.0	7752.8	7748.0	7650.3	7458.0	7398.7	7667.9	8121.3	8196.6	9241.2	9766.7
30°	8251.1	8273.5	8267.1	8130.9	7831.3	7570.2	7735.2	8105.3	8171.0	9188.3	9733.1
32.5°	8832.7	8877.5	8912.8	8767.0	8392.1	7909.8	7890.6	8122.9	8171.0	9148.3	9672.2
35°	9436.7	9494.3	9624.1	9572.9	9079.4	8420.9	8158.2	8228.6	8268.7	9170.7	9643.3
37.5°	10031.1	10100.0	10381.9	10530.9	9979.8	9097.0	8574.7	8489.8	8510.6	9306.9	9675.4
40°	10721.6	10825.7	11253.5	11493.8	11054.8	10002.2	9197.9	8938.4	8946.4	9606.5	9824.4
42.5°	11628.4	11735.8	12198.8	12575.3	12266.1	11146.2	10043.9	9624.1	9616.1	10167.3	10175.3
45°	12733.9	12846.0	13325.1	13743.3	13603.9	12501.6	11126.9	10625.5	10615.9	11051.6	10840.2
47.5°	13986.8	14097.3	14525.1	14956.1	15106.7	14084.5	12506.4	11992.1	11969.7	12280.5	11867.1
50°	15061.8	15133.9	15528.0	16108.0	16787.3	16029.5	14222.3	13727.2	13703.2	13913.1	13374.8
52.5°	15452.7	15494.4	15894.9	16707.2	18402.3	18663.5	16476.5	15838.9	15821.2	15912.6	15382.3
55°	14661.3	14736.6	15228.4	16433.3	19277.1	21640.3	19321.9	18453.6	18320.6	18123.5	17481.1
57.5°	12504.8	12625.0	13153.7	14755.8	18868.5	24001.8	23503.6	21411.1	21215.7	20010.9	19187.4
60°	9369.4	9516.8	9955.8	11684.5	16688.0	24843.0	28072.9	24706.8	24266.2	21513.7	20755.9
62.5°	6429.4	6503.1	6801.1	7927.4	12290.1	23465.1	31895.6	29120.7	28316.4	23147.9	22452.5
65°	4910.6	4936.2	5058.0	5445.7	7318.6	19060.8	33416.1	34944.5	33972.0	25102.5	24213.3
67.5°	3957.3	3936.5	4104.7	4659.1	4901.0	11628.4	31642.5	40454.3	39999.3	27715.6	25985.3
69°	3489.5	3460.6	3632.1	4276.1	4603.0	7687.1	28287.6	41705.6	41734.4	29095.1	26107.1
70°	3140.2	3159.4	3329.3	4048.6	4502.0	6033.7	25083.3	41386.8	41614.3	29611.0	25376.5
72.5°	2097.2	2148.5	2489.7	3361.3	4329.0	4566.1	15145.1	35514.9	36389.7	28449.4	21771.6
75°	1182.4	1220.8	1626.2	2534.6	4079.1	4348.2	7999.5	26164.7	27010.7	23790.3	16788.9
77.5°	580.0	600.8	919.6	1635.8	3411.0	4143.2	4537.3	17772.7	18738.8	15528.0	9495.9
80°	245.1	256.3	459.8	1009.4	2438.5	3954.1	3369.3	10937.9	11058.0	6083.4	2529.8
82.5°	94.5	97.7	193.9	629.6	1549.3	3082.5	2818.2	5186.2	5061.2	1145.5	576.8
85°	11.2	12.8	70.5	378.1	862.0	1586.1	2289.5	2235.0	2068.4	227.5	296.4
87.5°	0.0	0.0	4.8	115.4	256.3	743.4	1190.4	927.6	836.3	73.7	153.8
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: P323342

CATALOG NUMBER: GLEON-SA8D-827-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0	9568.0
2.5°	9544.0	9528.0	9441.5	9316.5	9197.9	9050.6	8909.6	8824.6	8757.4	8712.5	8765.4
5°	9569.6	9499.2	9236.4	8899.9	8569.9	8198.2	7852.1	7558.9	7443.6	7315.4	7373.1
7.5°	9561.6	9428.7	8956.0	8356.8	7751.2	7124.8	6532.0	6075.4	5838.2	5605.9	5665.2
10°	9521.6	9297.3	8581.1	7693.5	6786.7	5886.3	5045.2	4405.9	4048.6	3725.0	3771.5
12.5°	9433.5	9121.0	8138.9	6934.1	5721.3	4534.1	3548.8	2730.1	2291.1	2097.2	2121.2
15°	9380.6	8949.6	7671.1	6165.1	4583.8	3157.8	2169.3	1613.4	1413.1	1349.0	1357.0
17.5°	9355.0	8784.6	7187.2	5285.5	3420.6	2010.7	1401.9	1236.9	1193.6	1182.4	1185.6
20°	9329.3	8618.0	6689.0	4415.5	2356.8	1352.2	1151.9	1103.9	1087.9	1073.4	1076.6
22.5°	9286.1	8457.8	6153.9	3534.3	1589.3	1097.5	1038.2	991.7	958.1	940.5	943.7
25°	9233.2	8289.5	5607.5	2632.3	1160.0	978.9	922.8	857.2	817.1	785.1	786.7
27.5°	9148.3	8082.9	5043.6	1916.2	974.1	876.4	801.1	729.0	661.7	624.8	624.8
30°	9029.7	7848.9	4417.1	1371.4	873.2	775.4	684.1	594.4	522.3	488.7	485.5
32.5°	8898.3	7605.4	3784.3	1039.8	793.1	680.9	576.8	482.2	418.2	390.9	389.3
35°	8786.2	7342.7	3153.0	871.6	713.0	589.6	475.8	395.7	344.5	322.0	320.4
37.5°	8714.1	7079.9	2537.8	778.6	640.9	504.7	398.9	326.8	290.0	272.4	270.8
40°	8702.9	6884.4	1975.5	708.2	573.6	429.4	333.2	277.2	243.5	224.3	222.7
42.5°	8848.7	6772.3	1515.6	648.9	504.7	363.7	283.6	237.1	201.9	182.6	181.0
45°	9231.6	6807.5	1166.4	596.0	435.8	307.6	240.3	197.1	165.0	150.6	147.4
47.5°	9930.1	7051.1	927.6	543.1	370.1	261.2	205.1	163.4	136.2	121.8	120.2
50°	11173.4	7623.0	775.4	485.5	309.2	222.7	169.8	133.0	110.5	97.7	96.1
52.5°	12823.6	8642.0	692.1	429.4	256.3	189.1	139.4	105.7	86.5	76.9	75.3
55°	14643.7	9875.7	637.7	368.5	209.9	157.0	110.5	83.3	67.3	59.3	56.1
57.5°	16420.4	10944.3	586.4	309.2	174.6	128.2	88.1	65.7	52.9	44.9	43.3
60°	18053.0	11926.4	527.1	248.3	142.6	100.9	68.9	51.3	41.7	33.6	33.6
62.5°	19801.0	12685.8	445.4	193.9	117.0	76.9	56.1	46.5	33.6	28.8	27.2
65°	21653.1	13249.8	349.3	150.6	91.3	57.7	46.5	48.1	27.2	20.8	19.2
67.5°	23021.3	13137.6	257.9	118.6	70.5	44.9	44.9	51.3	24.0	16.0	14.4
69°	22720.1	12226.0	216.3	102.5	60.9	38.5	41.7	51.3	22.4	14.4	12.8
70°	21846.9	11216.7	190.7	91.3	54.5	35.2	40.1	49.7	20.8	14.4	12.8
72.5°	18194.0	8448.1	149.0	68.9	43.3	28.8	33.6	43.3	20.8	14.4	11.2
75°	13685.6	5407.3	113.8	49.7	32.0	22.4	25.6	32.0	20.8	12.8	11.2
77.5°	7446.8	1949.8	81.7	33.6	22.4	17.6	17.6	24.0	19.2	9.6	6.4
80°	1914.6	490.3	51.3	22.4	17.6	12.8	11.2	16.0	11.2	1.6	0.0
82.5°	472.6	110.5	27.2	16.0	12.8	4.8	4.8	8.0	4.8	0.0	0.0
85°	259.5	54.5	17.6	11.2	6.4	0.0	0.0	1.6	0.0	0.0	0.0
87.5°	133.0	16.0	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
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)