

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: P383530

Luminaire Tested: **GLEON-SA8B-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36449.6 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

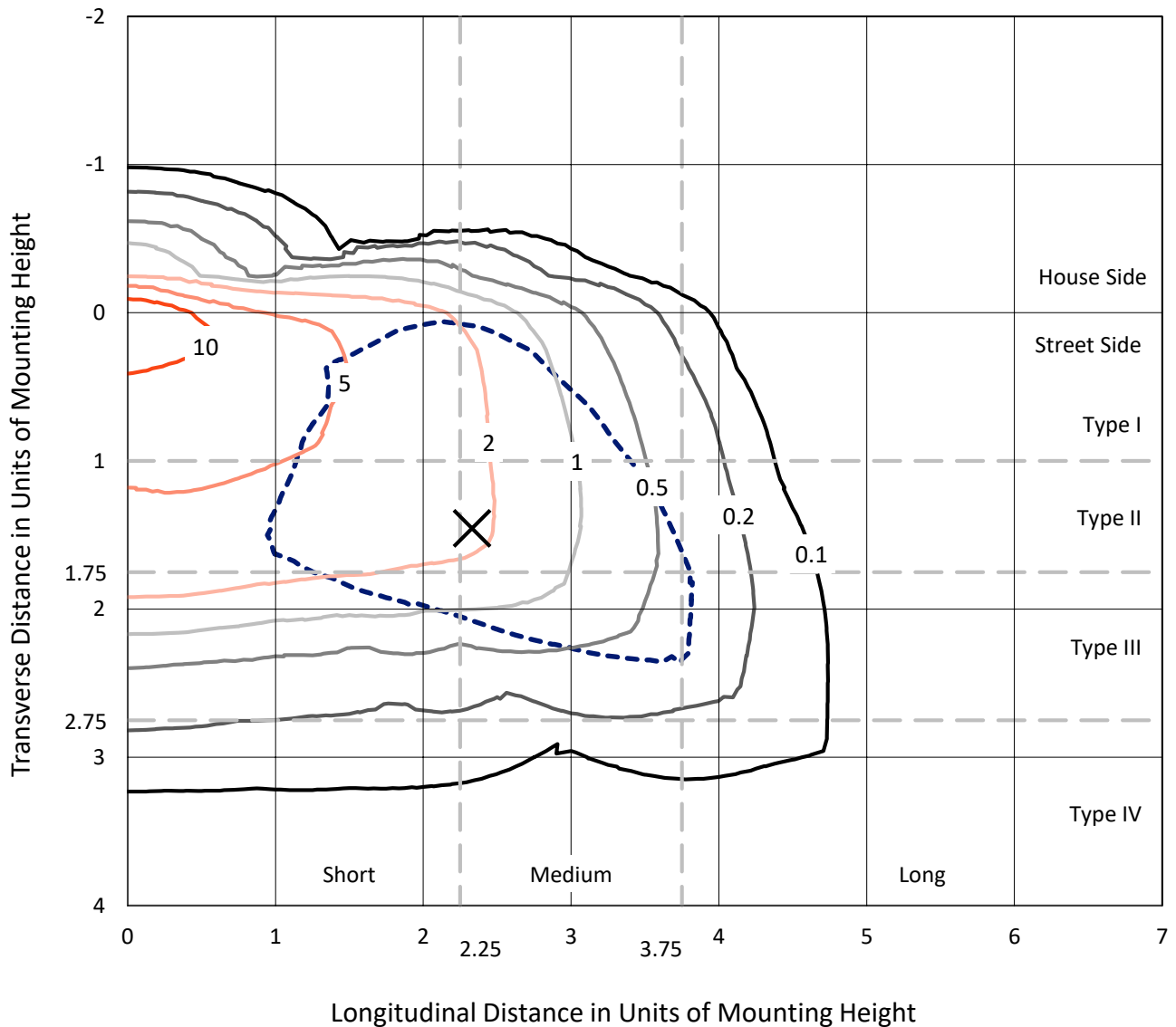
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383530  
 CATALOG NUMBER: GLEON-SA8B-735-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

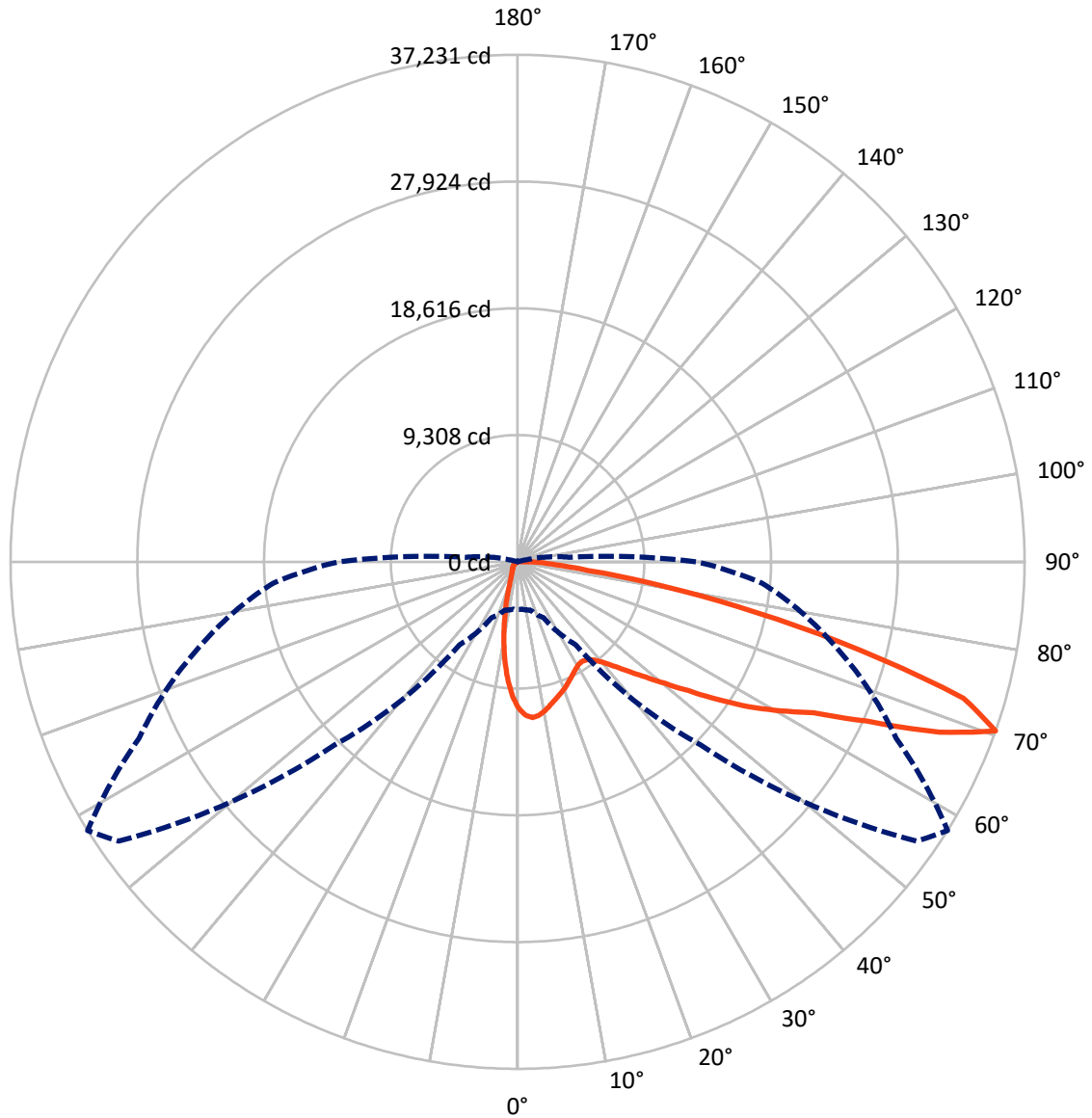
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383530  
CATALOG NUMBER: GLEON-SA8B-735-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P383530  
 CATALOG NUMBER: GLEON-SA8B-735-U-SL3-HSS

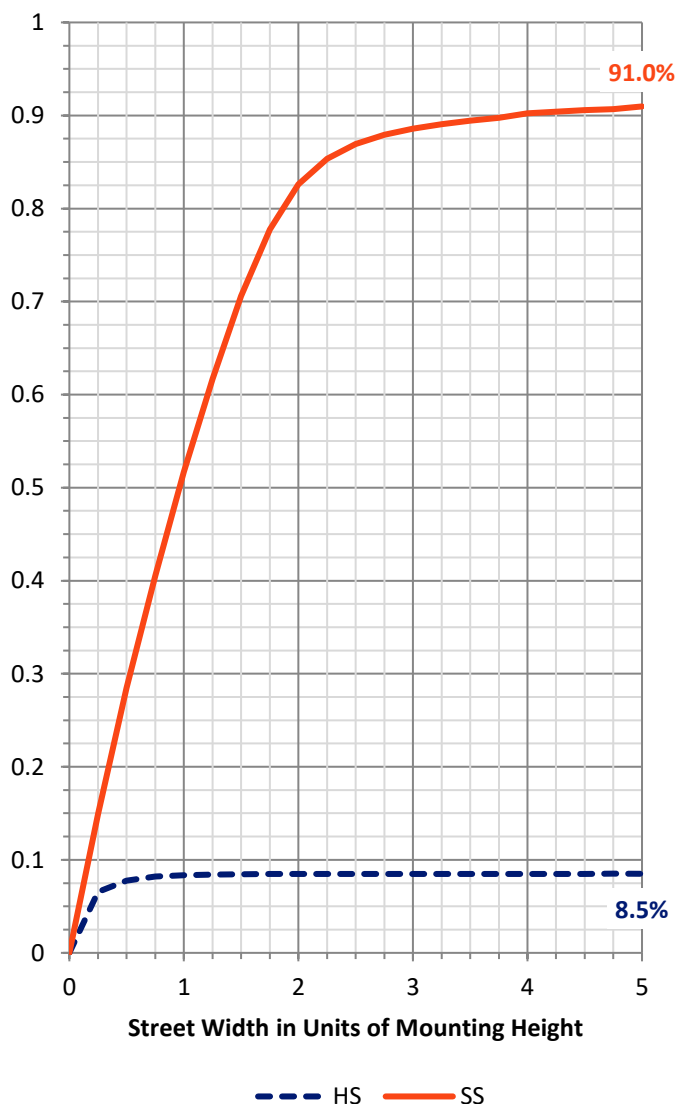
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3119.3	0.0	3119.3
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	33330.3	0.0	33330.3
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	36449.6	0.0	36449.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	880.5	2.4
10°-20°	1847.9	5.1
20°-30°	2429.3	6.7
30°-40°	3217.4	8.8
40°-50°	4809.0	13.2
50°-60°	7703.9	21.1
60°-70°	9710.6	26.6
70°-80°	5237.9	14.4
80°-90°	613.1	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°	36449.6	100.0
0°-180°	36449.6	100.0

**Coefficient of Utilization**

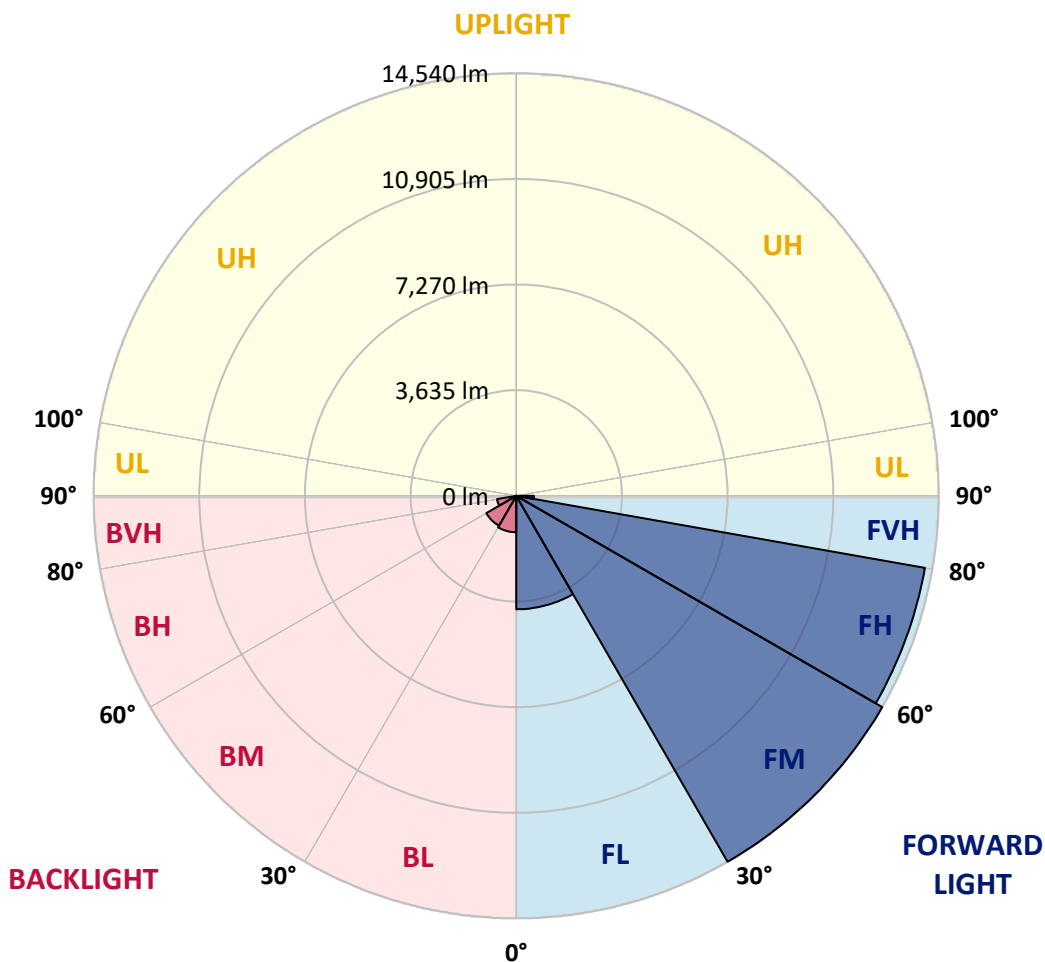


REPORT NUMBER: P383530  
 CATALOG NUMBER: GLEON-SA8B-735-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3904.5	10.7			
FM (30°-60°)	14540.3	39.9			
FH (60°-80°)	14277.7	39.2			G5
FVH (80°-90°)	607.8	1.7			G4/750
BL (0°-30°)	1253.2	3.4	B3/2500		
BM (30°-60°)	1190.0	3.3	B2/2500		
BH (60°-80°)	670.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
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: P383530

CATALOG NUMBER: GLEON-SA8B-735-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0
2.5°	11659.7	11630.9	11620.3	11602.1	11532.5	11464.2	11329.3	11291.5	11206.6	11005.0	10791.3
5°	11668.8	11667.4	11699.1	11691.6	11667.4	11635.5	11538.5	11488.5	11344.5	11056.5	10665.5
7.5°	11106.6	11135.3	11206.6	11264.2	11330.9	11417.2	11429.3	11380.9	11262.7	10951.9	10433.6
10°	10351.7	10397.2	10497.2	10610.9	10785.3	10958.0	11112.6	11106.6	11065.6	10759.5	10154.7
12.5°	9595.5	9648.5	9763.7	9931.9	10178.9	10460.9	10736.7	10774.7	10842.8	10586.7	9897.0
15°	8933.2	8978.6	9092.3	9298.4	9604.5	9983.5	10388.2	10457.8	10633.6	10451.8	9681.9
17.5°	8370.8	8399.6	8483.0	8711.8	9066.5	9525.7	10051.7	10188.1	10450.3	10345.7	9495.5
20°	7978.2	7982.8	8037.4	8198.1	8552.7	9066.5	9703.1	9898.6	10256.2	10254.8	9302.9
22.5°	7784.3	7769.1	7779.7	7872.2	8132.9	8628.5	9354.5	9586.4	10082.0	10177.4	9107.5
25°	7747.9	7735.8	7705.5	7717.6	7875.2	8245.0	9002.8	9271.1	9928.9	10130.5	8937.6
27.5°	7861.6	7873.7	7822.2	7767.6	7779.7	7996.5	8690.6	9001.4	9804.6	10130.5	8817.9
30°	8090.4	8096.5	8058.6	7987.4	7891.9	7926.7	8473.9	8784.6	9742.5	10200.2	8742.2
32.5°	8343.5	8376.8	8372.4	8314.7	8178.3	8037.4	8422.4	8705.8	9737.9	10354.8	8734.6
35°	8657.2	8695.2	8758.8	8746.7	8604.2	8372.4	8598.2	8821.0	9827.4	10609.4	8816.4
37.5°	8990.7	9048.3	9184.7	9249.9	9157.4	8895.3	8992.2	9151.3	10066.9	11021.7	9024.1
40°	9313.5	9378.7	9627.3	9883.4	9813.7	9543.9	9589.4	9716.7	10492.7	11614.3	9418.1
42.5°	9630.3	9727.3	10092.6	10513.9	10597.3	10382.1	10406.3	10507.9	11124.7	12429.6	10062.3
45°	10009.2	10118.4	10659.4	11179.3	11402.0	11308.1	11411.2	11477.9	11950.7	13507.3	10930.7
47.5°	10565.4	10691.3	11355.1	11947.8	12338.7	12399.4	12607.0	12651.0	12995.0	14762.2	12062.9
50°	11650.7	11685.5	12285.7	12823.8	13387.6	13751.3	13987.7	14021.1	14259.0	16133.8	13477.0
52.5°	13016.2	13039.0	13378.5	13739.2	14380.3	15122.9	15676.2	15723.1	15773.2	17470.7	14872.9
55°	14372.8	14369.7	14594.0	14806.2	15539.8	16618.9	17819.3	17848.1	17488.9	18739.3	15939.9
57.5°	15220.0	15301.8	15642.8	15915.7	16940.2	18324.0	19989.6	20095.7	19291.0	19678.9	16994.8
60°	14950.2	14989.6	15745.9	16755.3	18684.7	20747.4	22185.8	22213.0	20645.9	20617.1	18328.5
62.5°	12737.3	12758.6	13946.9	16027.8	19568.3	23890.8	24835.2	24391.1	22204.0	21919.0	19924.5
65°	8730.0	8868.0	9860.7	12432.7	17945.1	25862.7	28936.4	28201.3	24579.0	23795.4	21367.4
67.5°	5141.0	5112.2	5603.3	7497.8	13179.9	24553.2	34124.5	33393.8	27817.9	25051.8	20944.5
70°	3511.7	3492.0	3680.0	4539.3	7440.3	19046.9	35756.7	37231.4	30677.9	24206.2	18025.4
72.5°	2506.9	2517.5	2794.8	3526.8	4671.2	11097.4	30749.1	34239.6	29782.1	21102.2	13701.3
75°	1702.0	1730.8	2127.9	2893.3	4095.3	5645.7	21820.6	26027.9	24251.6	15336.6	7875.2
77.5°	915.4	947.3	1415.6	2331.0	3702.7	3922.5	14036.3	17913.2	15233.6	6894.6	2282.6
80°	381.9	400.1	662.3	1694.5	3199.5	3445.0	8258.6	10862.5	6491.5	1359.5	509.3
82.5°	165.2	174.3	275.8	1010.9	2391.7	2908.5	4372.6	5225.9	1967.2	298.6	256.2
85°	31.9	33.3	113.6	535.0	1526.2	1641.4	2834.2	2778.2	883.6	128.8	186.4
87.5°	0.0	0.0	27.3	168.2	448.6	894.2	1729.3	1708.1	300.1	62.1	69.7
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: P383530

CATALOG NUMBER: GLEON-SA8B-735-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0	10767.0
2.5°	10682.1	10577.6	10357.8	10086.5	9878.9	9650.0	9468.2	9237.8	9137.7	9142.3	9087.7
5°	10442.6	10227.5	9740.9	9127.1	8654.3	8166.2	7746.4	7328.1	7081.1	7000.7	6924.9
7.5°	10100.1	9759.2	8983.1	8037.4	7237.1	6455.1	5774.6	5175.9	4797.0	4612.1	4543.9
10°	9713.7	9234.7	8111.6	6865.8	5723.1	4665.1	3783.0	3016.1	2710.0	2502.3	2449.2
12.5°	9374.2	8725.5	7259.8	5663.9	4307.4	3031.3	2190.1	1712.7	1505.0	1423.2	1409.5
15°	9054.4	8249.6	6439.9	4575.7	2982.7	1865.7	1392.8	1230.7	1182.2	1168.5	1168.5
17.5°	8752.7	7796.4	5638.1	3504.1	1973.4	1308.0	1153.3	1117.0	1101.8	1100.3	1101.8
20°	8437.5	7343.2	4850.0	2567.4	1377.7	1107.9	1065.5	1045.8	1041.3	1041.3	1041.3
22.5°	8135.9	6890.1	4083.1	1833.9	1104.9	1010.9	989.7	976.1	971.5	970.0	966.9
25°	7846.4	6459.6	3334.4	1295.9	970.0	926.1	907.9	889.7	876.0	868.5	863.9
27.5°	7608.5	6076.2	2637.2	1039.7	876.0	838.1	815.4	788.1	754.7	739.6	733.6
30°	7419.0	5726.0	2032.5	877.5	788.1	750.3	715.3	668.4	619.9	594.1	592.7
32.5°	7270.4	5382.0	1542.9	776.0	709.3	662.3	612.3	553.2	497.2	468.3	466.8
35°	7197.7	5078.9	1179.2	701.7	639.6	580.4	518.3	453.2	398.6	371.3	368.3
37.5°	7246.2	4822.7	920.0	639.6	580.4	512.3	439.5	371.3	322.9	298.6	297.1
40°	7423.6	4659.0	747.2	586.5	530.5	447.1	368.3	304.6	263.7	244.0	242.5
42.5°	7801.0	4598.4	638.1	542.6	482.0	386.5	306.2	251.6	213.7	200.1	197.0
45°	8431.4	4687.8	563.8	500.1	432.0	328.9	253.1	206.2	172.8	162.2	160.7
47.5°	9271.1	4922.8	510.8	459.3	386.5	277.3	210.7	166.7	140.9	130.3	128.8
50°	10353.3	5295.6	466.8	418.4	344.0	234.9	174.3	131.8	109.1	101.5	101.5
52.5°	11530.9	5739.7	427.4	380.4	301.6	195.5	140.9	101.5	86.4	77.3	77.3
55°	12504.0	6127.7	385.0	351.7	250.1	162.2	107.6	77.3	63.6	59.2	59.2
57.5°	13475.5	6541.4	336.5	301.6	200.1	131.8	81.9	57.6	46.9	44.0	44.0
60°	14734.9	7047.7	289.5	245.6	157.6	100.0	60.6	40.9	34.8	33.3	33.3
62.5°	16120.2	7344.8	247.0	197.0	122.8	74.2	44.0	27.3	25.8	25.8	24.2
65°	16967.5	6924.9	207.6	157.6	95.5	56.1	28.8	19.7	22.7	21.2	18.2
67.5°	15886.8	5421.4	169.7	122.8	74.2	42.5	18.2	13.6	24.2	19.7	15.2
70°	13154.2	3795.1	131.8	86.4	59.2	36.3	12.1	9.1	25.8	19.7	12.1
72.5°	9844.0	2540.2	104.6	57.6	44.0	31.9	10.6	4.6	22.7	16.7	10.6
75°	5378.9	1023.0	83.4	36.3	27.3	22.7	7.5	3.1	15.2	12.1	7.5
77.5°	1415.6	269.8	60.6	24.2	15.2	9.1	4.6	1.5	7.5	6.1	3.1
80°	360.7	104.6	39.4	16.7	10.6	4.6	0.0	0.0	1.5	0.0	0.0
82.5°	192.5	44.0	24.2	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	145.5	28.8	13.6	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.1	9.1	4.6	0.0	0.0	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)