

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: P383642

Luminaire Tested: **GLEON-SA9B-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383642  
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-SA9B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 40657.4 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

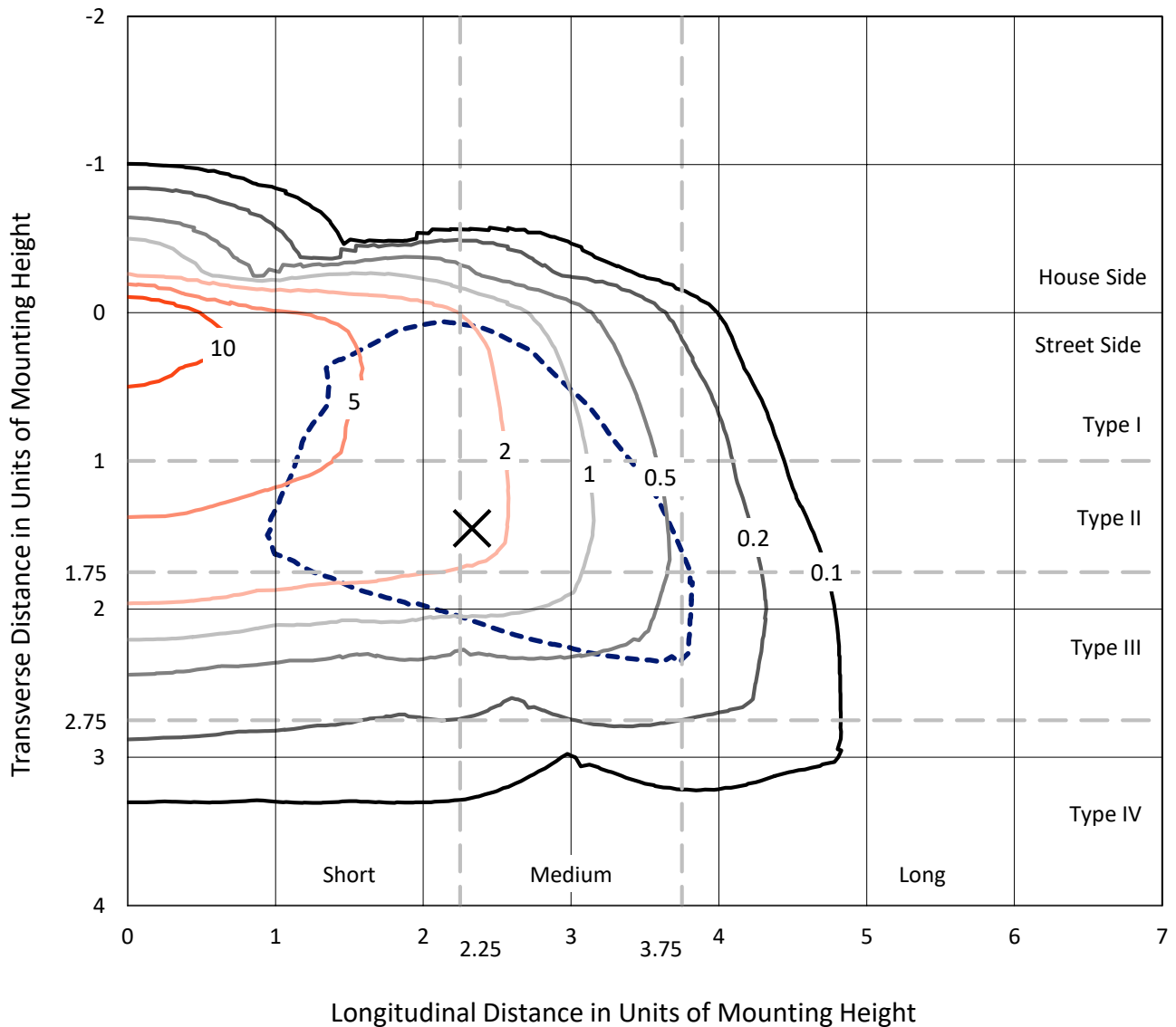
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

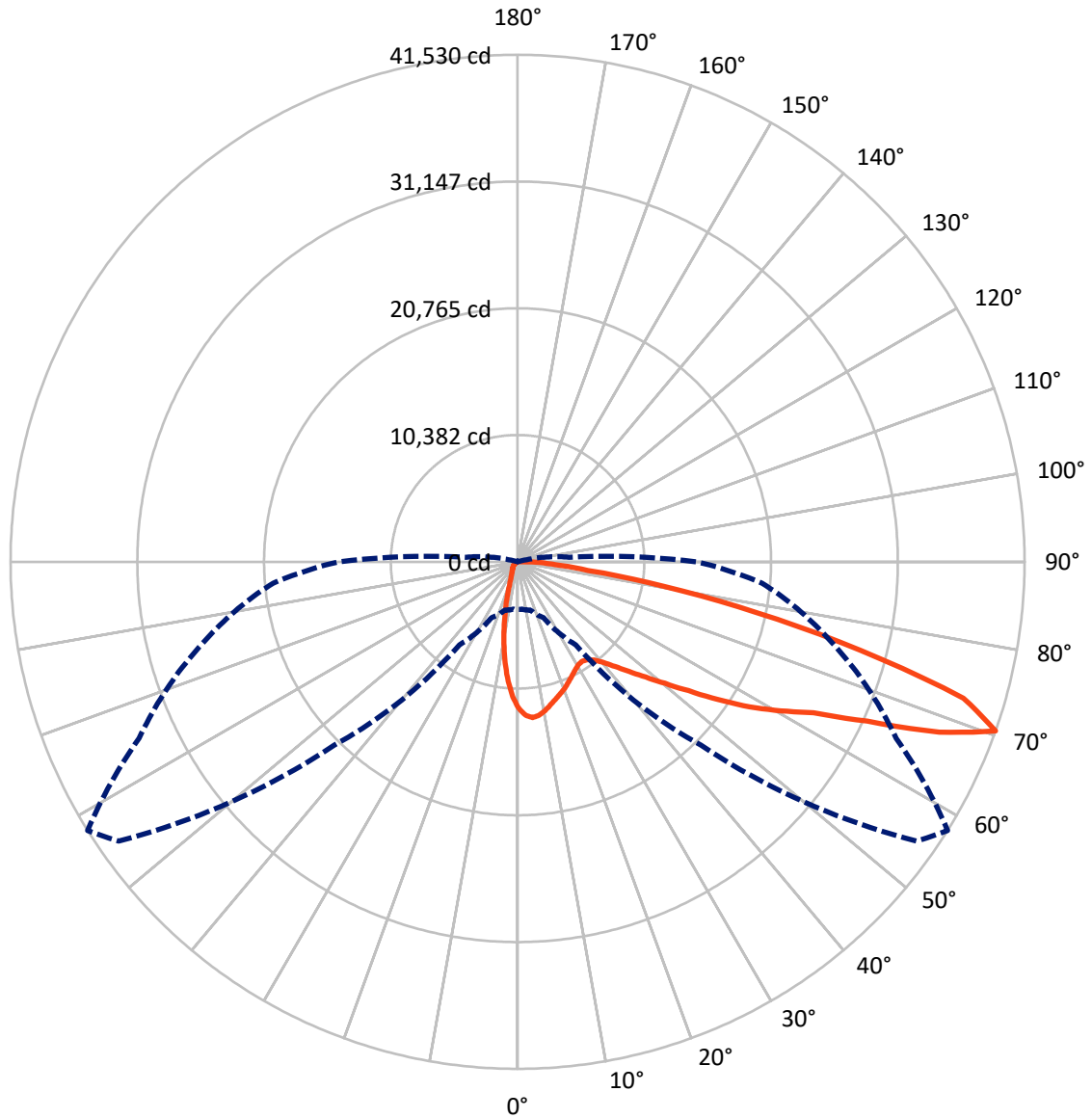
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GLEON-SA9B-735-U-SL3-HSS

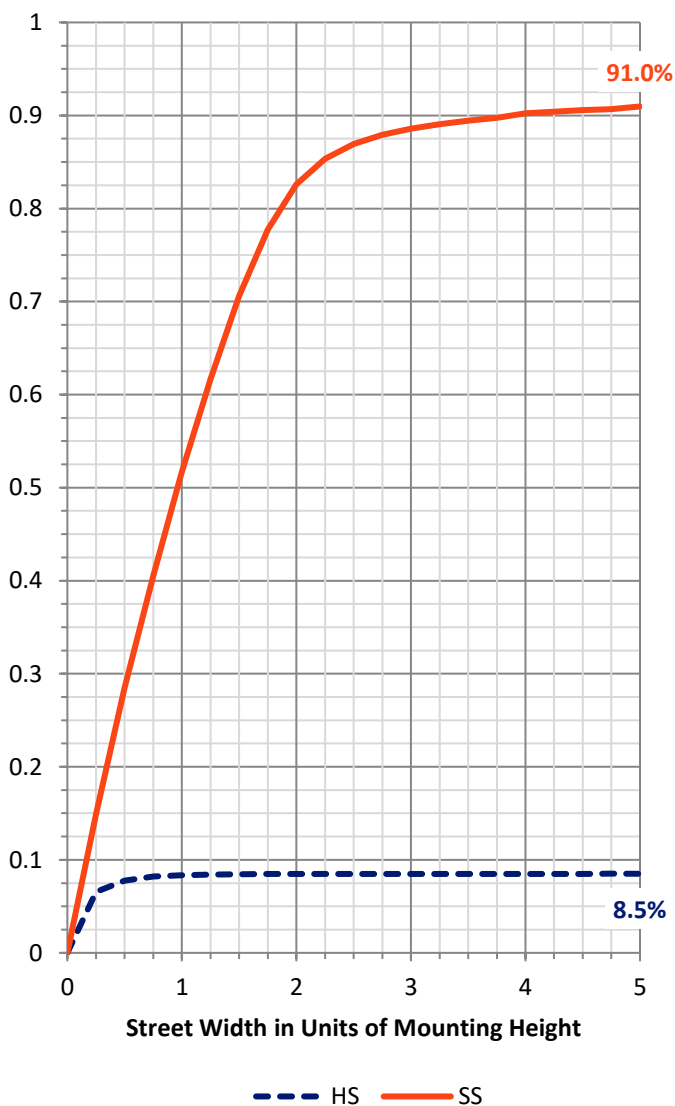
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3479.4	0.0	3479.4
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	37178.0	0.0	37178.0
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	40657.4	0.0	40657.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	982.1	2.4
10°-20°	2061.2	5.1
20°-30°	2709.8	6.7
30°-40°	3588.8	8.8
40°-50°	5364.2	13.2
50°-60°	8593.2	21.1
60°-70°	10831.6	26.6
70°-80°	5842.5	14.4
80°-90°	683.9	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°	40657.4	100.0
0°-180°	40657.4	100.0

**Coefficient of Utilization**

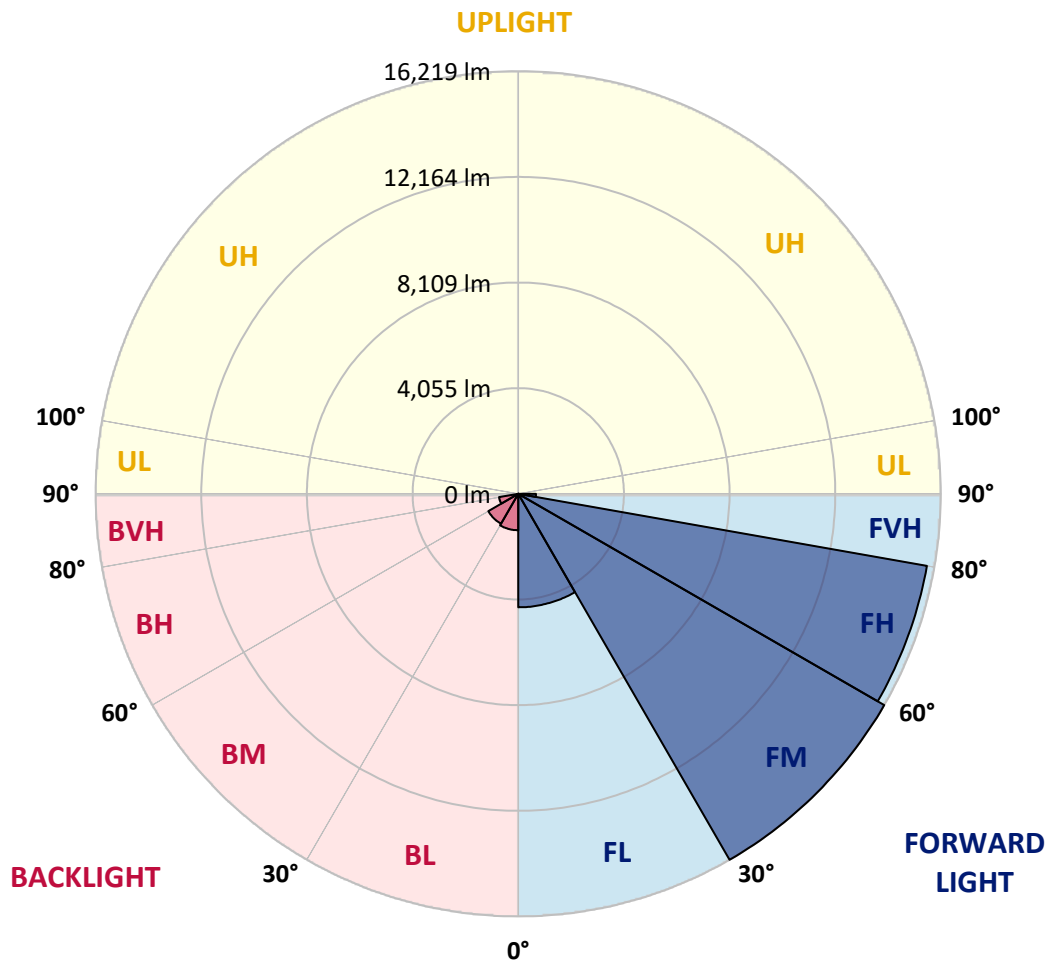


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4355.2	10.7			
FM (30°-60°)	16218.9	39.9			
FH (60°-80°)	15925.9	39.2			G5
FVH (80°-90°)	678.0	1.7			G4/750
BL (0°-30°)	1397.9	3.4	B3/2500		
BM (30°-60°)	1327.3	3.3	B2/2500		
BH (60°-80°)	748.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0
2.5°	13005.8	12973.7	12961.8	12941.5	12863.7	12787.6	12637.2	12595.0	12500.3	12275.5	12037.1
5°	13015.9	13014.2	13049.7	13041.3	13014.2	12978.7	12870.5	12814.7	12654.1	12332.9	11896.7
7.5°	12388.7	12420.8	12500.3	12564.5	12638.9	12735.3	12748.8	12694.7	12562.9	12216.2	11638.1
10°	11546.8	11597.5	11709.1	11835.9	12030.3	12223.0	12395.5	12388.7	12343.0	12001.6	11327.0
12.5°	10703.2	10762.4	10890.8	11078.5	11354.1	11668.5	11976.2	12018.5	12094.6	11808.9	11039.6
15°	9964.4	10015.1	10141.9	10371.9	10713.4	11136.0	11587.3	11665.1	11861.2	11658.3	10799.5
17.5°	9337.2	9369.3	9462.3	9717.5	10113.2	10625.4	11212.0	11364.2	11656.6	11540.0	10591.6
20°	8899.3	8904.4	8965.2	9144.4	9540.1	10113.2	10823.2	11041.3	11440.2	11438.6	10376.9
22.5°	8682.9	8666.0	8677.8	8781.0	9071.8	9624.6	10434.4	10693.0	11245.8	11352.4	10158.8
25°	8642.3	8628.8	8595.0	8608.5	8784.3	9196.9	10042.2	10341.4	11075.1	11300.0	9969.4
27.5°	8769.1	8782.6	8725.2	8664.3	8677.8	8919.6	9693.9	10040.5	10936.5	11300.0	9835.9
30°	9024.4	9031.2	8988.9	8909.4	8802.9	8841.8	9452.1	9798.7	10867.2	11377.7	9751.3
32.5°	9306.7	9343.9	9338.9	9274.6	9122.5	8965.2	9394.7	9710.8	10862.1	11550.2	9742.9
35°	9656.7	9699.0	9770.0	9756.5	9597.5	9338.9	9590.7	9839.3	10961.8	11834.2	9834.2
37.5°	10028.6	10092.9	10245.0	10317.7	10214.6	9922.1	10030.3	10207.8	11229.0	12294.0	10065.8
40°	10388.7	10461.4	10738.7	11024.4	10946.6	10645.7	10696.4	10838.5	11704.0	12955.0	10505.3
42.5°	10742.0	10850.3	11257.7	11727.7	11820.7	11580.6	11607.6	11720.9	12409.0	13864.6	11223.8
45°	11164.7	11286.4	11890.0	12469.9	12718.3	12613.5	12728.5	12802.9	13330.4	15066.6	12192.6
47.5°	11785.2	11925.5	12666.0	13327.0	13763.2	13830.8	14062.4	14111.5	14495.2	16466.4	13455.5
50°	12995.6	13034.5	13704.0	14304.1	14933.1	15338.8	15602.5	15639.8	15905.2	17996.4	15032.8
52.5°	14518.8	14544.3	14922.9	15325.3	16040.4	16868.7	17485.8	17538.2	17594.0	19487.5	16589.8
55°	16031.9	16028.6	16278.8	16515.4	17333.7	18537.4	19876.3	19908.5	19507.8	20902.5	17780.0
57.5°	16977.0	17068.3	17448.6	17753.0	18895.8	20439.4	22297.2	22415.6	21517.9	21950.7	18956.6
60°	16676.0	16720.0	17563.6	18689.5	20841.7	23142.6	24746.9	24777.4	23029.3	22997.2	20444.4
62.5°	14207.8	14231.4	15556.8	17878.1	21827.3	26648.9	27702.1	27206.8	24767.2	24449.4	22224.6
65°	9737.8	9891.6	10999.1	13867.9	20016.6	28848.4	32276.9	31457.0	27416.4	26542.4	23834.0
67.5°	5734.5	5702.4	6250.1	8363.3	14701.4	27387.7	38063.8	37249.0	31029.2	27943.9	23362.4
70°	3917.2	3895.2	4104.8	5063.3	8299.2	21245.7	39884.6	41529.5	34219.4	27000.5	20106.2
72.5°	2796.2	2808.1	3117.4	3934.0	5210.4	12378.6	34298.8	38192.2	33220.2	23538.2	15283.0
75°	1898.5	1930.6	2373.6	3227.3	4568.0	6297.4	24339.6	29032.6	27051.2	17107.1	8784.3
77.5°	1021.2	1056.7	1579.0	2600.1	4130.1	4375.3	15656.6	19981.1	16992.2	7690.5	2546.0
80°	426.0	446.3	738.8	1890.1	3568.9	3842.7	9212.1	12116.5	7240.8	1516.5	568.1
82.5°	184.3	194.4	307.7	1127.6	2667.8	3244.3	4877.4	5829.2	2194.4	333.0	285.7
85°	35.5	37.2	126.8	596.7	1702.4	1831.0	3161.4	3098.9	985.6	143.7	207.9
87.5°	0.0	0.0	30.5	187.6	500.4	997.4	1929.0	1905.3	334.7	69.3	77.8
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: P383642

CATALOG NUMBER: GLEON-SA9B-735-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0	12010.0
2.5°	11915.3	11798.7	11553.5	11251.0	11019.3	10764.0	10561.1	10304.2	10192.6	10197.7	10136.8
5°	11648.3	11408.1	10865.5	10180.8	9653.3	9109.0	8640.7	8174.1	7898.5	7808.9	7724.3
7.5°	11266.1	10885.8	10020.2	8965.2	8072.6	7200.2	6441.2	5773.4	5350.7	5144.5	5068.4
10°	10835.0	10300.8	9048.1	7658.4	6383.7	5203.6	4219.7	3364.3	3022.8	2791.2	2732.0
12.5°	10456.3	9732.8	8097.9	6317.8	4804.6	3381.2	2442.9	1910.4	1678.7	1587.5	1572.3
15°	10099.7	9201.9	7183.3	5103.9	3327.1	2081.2	1553.6	1372.7	1318.7	1303.4	1303.4
17.5°	9763.2	8696.5	6289.1	3908.7	2201.2	1459.0	1286.6	1245.9	1229.1	1227.4	1229.1
20°	9411.5	8190.9	5409.9	2863.9	1536.8	1235.8	1188.5	1166.5	1161.5	1161.5	1161.5
22.5°	9075.1	7685.5	4554.4	2045.6	1232.4	1127.6	1104.0	1088.7	1083.7	1082.0	1078.6
25°	8752.3	7205.3	3719.3	1445.5	1082.0	1033.0	1012.7	992.4	977.2	968.7	963.7
27.5°	8486.8	6777.6	2941.6	1159.8	977.2	934.9	909.6	879.1	841.9	825.0	818.3
30°	8275.5	6387.1	2267.1	978.9	879.1	836.8	798.0	745.5	691.5	662.7	661.0
32.5°	8109.8	6003.3	1721.0	865.6	791.2	738.8	683.0	617.1	554.6	522.4	520.7
35°	8028.6	5665.2	1315.3	782.8	713.5	647.5	578.2	505.5	444.6	414.2	410.8
37.5°	8082.8	5379.5	1026.2	713.5	647.5	571.4	490.3	414.2	360.1	333.0	331.4
40°	8280.5	5196.9	833.5	654.2	591.7	498.8	410.8	339.8	294.2	272.2	270.5
42.5°	8701.5	5129.3	711.7	605.2	537.6	431.1	341.5	280.7	238.4	223.2	219.8
45°	9404.8	5229.1	628.9	557.9	481.8	366.8	282.4	229.9	192.7	180.9	179.2
47.5°	10341.4	5491.1	569.7	512.3	431.1	309.4	235.0	185.9	157.2	145.4	143.7
50°	11548.5	5906.9	520.7	466.6	383.8	262.0	194.4	147.1	121.8	113.3	113.3
52.5°	12862.1	6402.2	476.8	424.3	336.5	218.1	157.2	113.3	96.3	86.3	86.3
55°	13947.4	6835.0	429.4	392.2	278.9	180.9	120.1	86.3	71.0	66.0	66.0
57.5°	15031.1	7296.6	375.3	336.5	223.2	147.1	91.3	64.3	52.4	49.0	49.0
60°	16435.9	7861.2	322.9	273.9	175.8	111.6	67.6	45.6	38.8	37.2	37.2
62.5°	17981.2	8192.6	275.6	219.8	136.9	82.8	49.0	30.5	28.8	28.8	27.0
65°	18926.3	7724.3	231.6	175.8	106.5	62.5	32.1	22.0	25.3	23.7	20.3
67.5°	17720.8	6047.2	189.4	136.9	82.8	47.3	20.3	15.2	27.0	22.0	16.9
70°	14672.7	4233.2	147.1	96.3	66.0	40.6	13.5	10.2	28.8	22.0	13.5
72.5°	10980.4	2833.4	116.6	64.3	49.0	35.5	11.8	5.0	25.3	18.6	11.8
75°	5999.9	1141.1	93.0	40.6	30.5	25.3	8.5	3.4	16.9	13.5	8.5
77.5°	1579.0	300.9	67.6	27.0	16.9	10.2	5.0	1.7	8.5	6.8	3.4
80°	402.3	116.6	44.0	18.6	11.8	5.0	0.0	0.0	1.7	0.0	0.0
82.5°	214.7	49.0	27.0	13.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	162.3	32.1	15.2	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	62.5	10.2	5.0	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)