

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: P383671

Luminaire Tested: **GLEON-SA9C-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58908.3 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

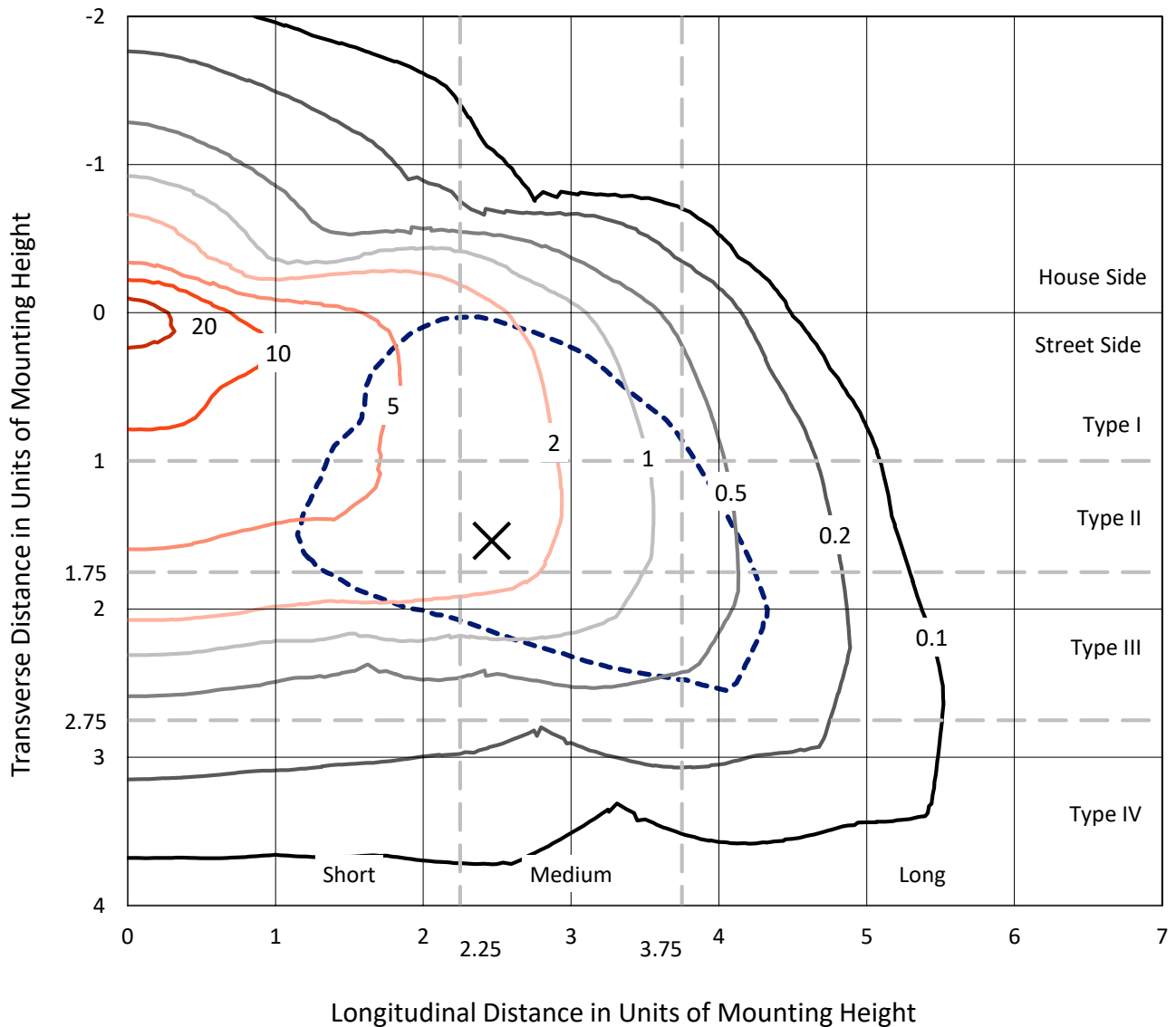
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383671  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

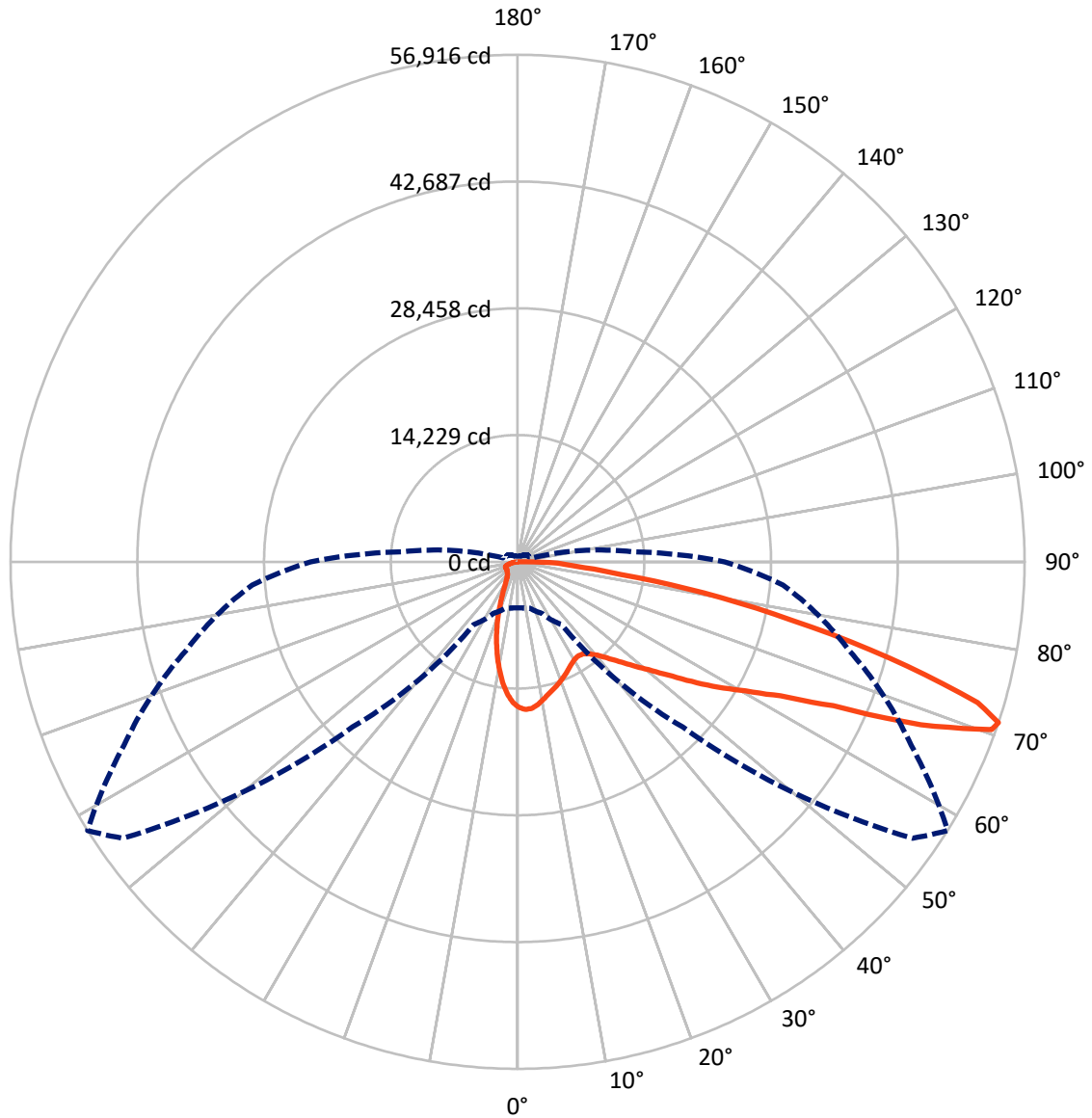
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383671  
CATALOG NUMBER: GLEON-SA9C-735-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P383671  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL3

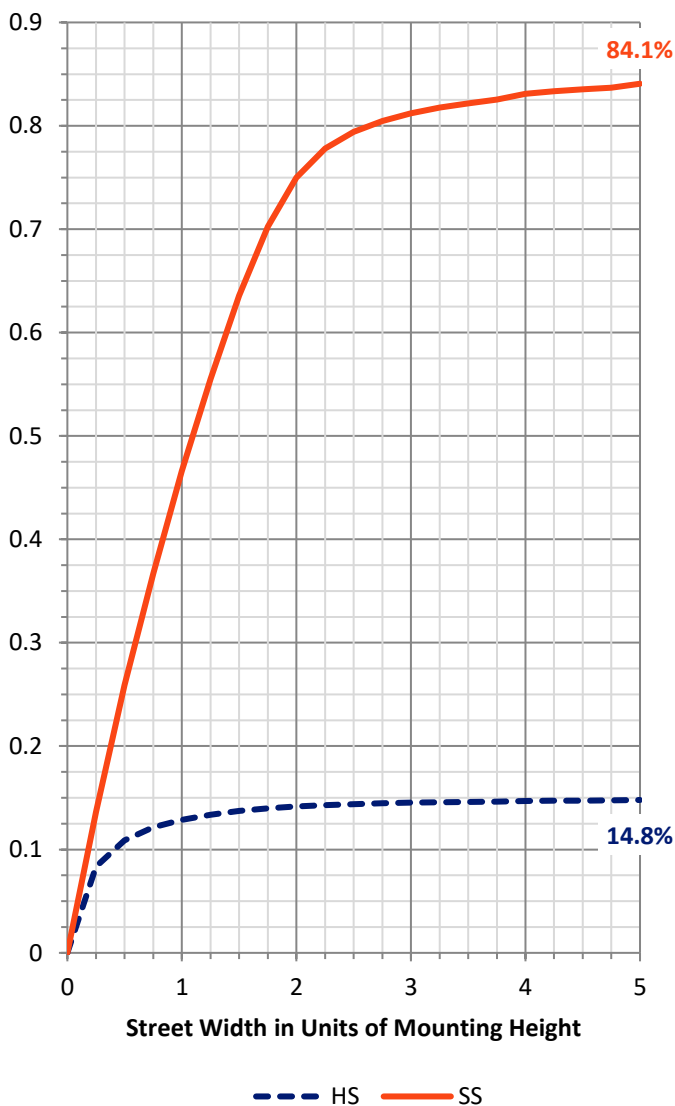
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8807.2	0.0	8807.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	50101.1	0.0	50101.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	58908.3	0.0	58908.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1408.1	2.4
10°-20°	3131.0	5.3
20°-30°	3979.2	6.8
30°-40°	5068.7	8.6
40°-50°	7187.6	12.2
50°-60°	11123.1	18.9
60°-70°	15142.7	25.7
70°-80°	10101.9	17.1
80°-90°	1766.2	3.0
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°	58908.3	100.0
0°-180°	58908.3	100.0

**Coefficient of Utilization**

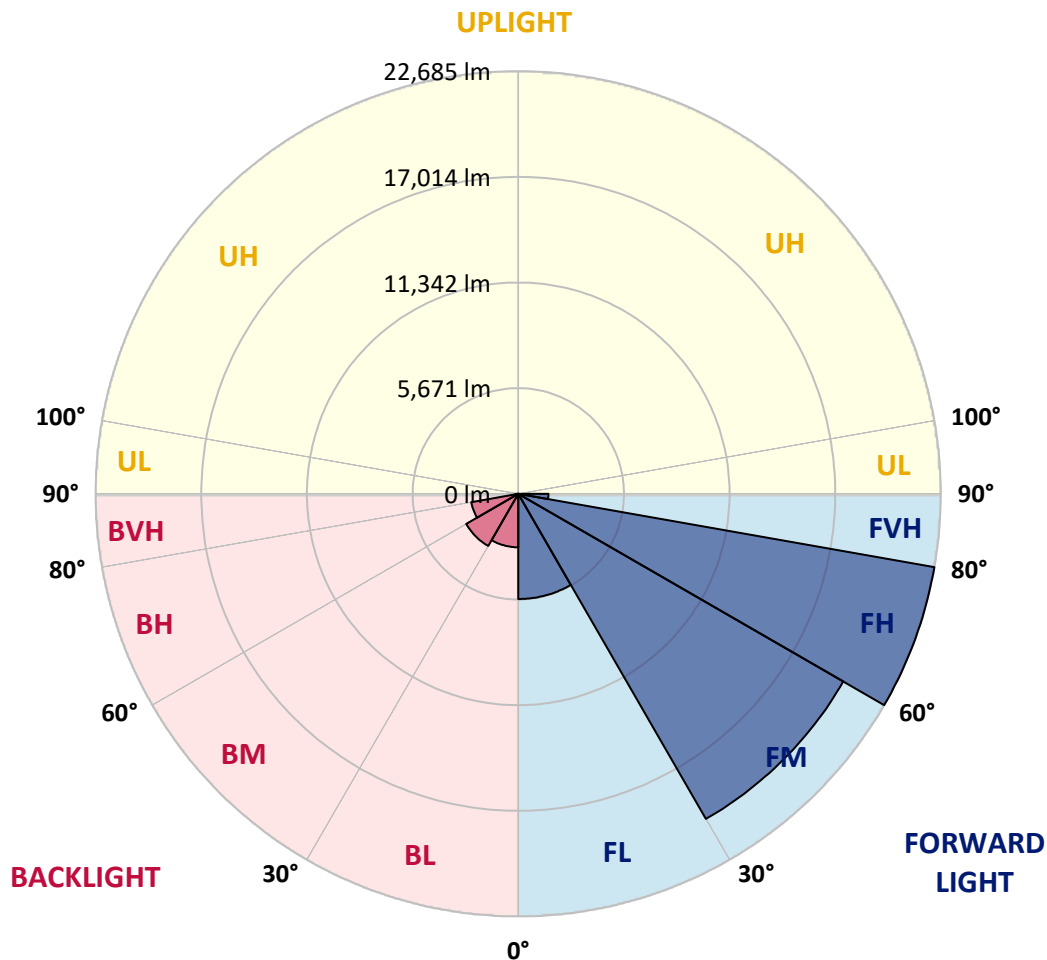


REPORT NUMBER: P383671  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5647.3	9.6			
FM (30°-60°)	20149.5	34.2			
FH (60°-80°)	22684.8	38.5			G5
FVH (80°-90°)	1619.4	2.7			G5
BL (0°-30°)	2870.9	4.9	B4/5000		
BM (30°-60°)	3229.8	5.5	B3/5000		
BH (60°-80°)	2559.7	4.3	B4/5000		G4/5000
BVH (80°-90°)	146.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





REPORT NUMBER: P383671

CATALOG NUMBER: GLEON-SA9C-735-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6
2.5°	16754.5	16731.9	16740.1	16723.7	16684.8	16645.7	16588.3	16598.6	16518.5	16399.5	16251.8
5°	16438.5	16430.3	16491.8	16526.8	16555.5	16532.9	16516.4	16537.0	16420.0	16255.9	15999.3
7.5°	15775.7	15685.4	15763.4	15880.4	15991.1	16075.3	16186.1	16200.5	16126.6	15954.2	15617.7
10°	14833.9	14747.6	14862.6	15045.2	15266.8	15467.9	15691.5	15732.6	15747.0	15591.0	15182.6
12.5°	13857.1	13791.5	13906.3	14162.9	14530.2	14840.0	15197.1	15258.6	15385.8	15281.2	14780.5
15°	12983.0	12958.3	13097.8	13350.3	13772.9	14247.0	14762.0	14874.9	15090.3	15055.5	14466.6
17.5°	12227.8	12221.6	12328.4	12593.0	13060.9	13660.1	14329.1	14519.8	14840.0	14881.0	14208.0
20°	11665.6	11653.3	11727.2	11922.0	12404.3	13083.5	13861.1	14123.8	14585.5	14729.2	13941.3
22.5°	11363.9	11361.9	11363.9	11456.3	11850.2	12482.3	13405.6	13725.8	14337.3	14608.2	13645.8
25°	11312.6	11306.5	11261.3	11251.0	11474.7	11979.5	12954.2	13307.2	14101.3	14523.9	13364.6
27.5°	11446.0	11454.2	11394.7	11298.3	11343.4	11649.2	12562.3	12939.8	13912.5	14507.5	13169.7
30°	11723.1	11719.0	11667.6	11567.0	11478.8	11526.0	12283.2	12660.8	13785.2	14579.4	13036.3
32.5°	12028.8	12051.3	12041.1	11985.7	11854.3	11665.6	12199.1	12568.4	13748.3	14751.8	12978.9
35°	12396.1	12420.7	12494.6	12537.7	12383.8	12080.0	12379.6	12699.8	13855.0	15076.0	13071.2
37.5°	12744.9	12808.5	13015.8	13198.4	13067.1	12728.5	12859.8	13087.6	14185.4	15586.9	13319.5
40°	13147.1	13202.5	13541.1	13928.9	13908.4	13557.5	13633.4	13785.2	14768.2	16319.5	13768.8
42.5°	13543.1	13654.0	14144.3	14694.3	14852.3	14542.5	14663.5	14743.5	15589.0	17290.1	14552.7
45°	14070.5	14189.5	14870.8	15533.6	15902.9	15728.5	15921.4	15952.2	16621.1	18611.6	15691.5
47.5°	14868.7	15004.2	15798.3	16493.9	17058.2	17076.7	17394.7	17382.4	17909.7	20123.9	17125.9
50°	16112.2	16307.2	16957.6	17608.1	18293.5	18675.2	19099.9	19040.5	19454.9	21734.7	18777.8
52.5°	17741.5	17831.8	18314.0	18794.2	19645.8	20501.4	21110.9	21057.5	21207.3	23390.6	20653.2
55°	19430.3	19498.0	19697.0	19959.7	21104.7	22500.0	23788.7	23704.6	23324.9	25110.2	22506.2
57.5°	20948.7	21086.2	21223.7	21332.5	22573.9	24589.0	26528.1	26534.3	25623.2	26965.2	24420.7
60°	21184.8	21305.8	22214.8	23072.6	25087.6	27375.6	29460.4	29398.9	28001.5	28978.2	26554.8
62.5°	18726.4	18999.4	20517.9	22799.6	27509.0	32472.7	33201.2	33125.3	30845.5	31459.1	29039.8
65°	13420.1	13729.9	15562.2	18991.2	26335.2	38089.0	39952.2	38930.4	34723.8	34510.4	31949.5
67.5°	7742.2	7816.1	8610.1	11363.9	20052.0	38382.5	50251.2	48820.9	40746.4	37972.1	33373.5
70°	5725.0	5723.0	5911.8	6993.2	10850.9	31325.7	55149.3	56431.8	47087.0	39110.9	31360.5
71°	5177.2	5183.3	5394.7	6365.3	8593.7	26220.4	54108.9	56916.1	48757.3	38548.7	29903.6
72.5°	4428.2	4448.7	4742.1	5708.6	7229.2	18082.2	49627.4	54010.5	49549.4	37161.6	27623.9
75°	3359.1	3406.3	3812.6	4811.9	6607.4	9170.3	36422.9	43128.7	44017.2	32790.8	20526.1
77.5°	2396.7	2450.1	2909.7	4046.5	6281.1	6911.1	24392.0	31459.1	32392.7	21014.4	9258.6
80°	1514.3	1577.9	1924.8	3219.6	5901.5	6562.3	15328.3	21145.8	17663.5	6724.4	2355.7
82.5°	888.5	937.8	1194.2	2103.2	4820.1	6320.1	9018.5	11721.0	6874.2	2031.4	1071.1
85°	515.1	537.6	744.9	1339.9	3500.7	5965.2	6625.9	6552.0	2983.6	993.1	506.9
87.5°	240.1	266.8	441.2	699.7	1943.2	4323.5	5236.7	4524.6	1855.0	465.8	238.0
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: P383671  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6	16321.6
2.5°	16180.0	16145.0	15999.3	15870.1	15734.7	15558.1	15363.3	15338.6	15219.6	15242.2	15201.2
5°	15859.9	15771.6	15420.7	15102.6	14727.1	14390.6	14025.4	13857.1	13614.9	13598.5	13537.0
7.5°	15402.2	15238.1	14694.3	14091.1	13487.7	12913.2	12344.8	11971.3	11589.7	11427.6	11413.1
10°	14887.2	14608.2	13807.9	12915.3	12045.2	11206.0	10393.4	9792.1	9250.4	8993.9	8983.7
12.5°	14398.8	13986.3	12888.5	11673.8	10483.6	9396.1	8281.8	7491.8	6812.6	6584.8	6488.4
15°	13984.3	13403.6	11993.9	10440.5	8996.0	7485.6	6217.5	5386.5	4758.5	4541.0	4500.0
17.5°	13582.2	12835.2	11076.7	9194.9	7448.7	5788.6	4518.5	3900.9	3566.3	3478.1	3476.1
20°	13182.0	12250.4	10118.4	7920.7	5952.9	4329.7	3474.0	3197.0	3084.2	3073.9	3057.4
22.5°	12728.5	11630.7	9110.8	6642.3	4645.7	3404.2	2952.8	2842.0	2827.6	2864.6	2864.6
25°	12303.7	11015.1	8088.9	5390.6	3613.6	2839.9	2636.8	2614.2	2653.2	2718.9	2725.1
27.5°	11907.7	10422.1	7091.7	4278.4	2895.3	2501.4	2417.3	2443.9	2513.7	2589.6	2591.7
30°	11581.5	9861.8	6123.2	3371.5	2446.0	2248.9	2234.6	2288.0	2363.9	2423.4	2437.8
32.5°	11329.0	9383.8	5187.4	2710.7	2152.5	2060.2	2072.5	2117.7	2164.8	2197.7	2220.3
35°	11212.1	8973.3	4323.5	2285.9	1965.8	1914.5	1930.9	1955.5	1976.1	2000.7	2019.1
37.5°	11232.6	8655.3	3552.0	2021.2	1840.6	1814.0	1814.0	1814.0	1814.0	1826.3	1828.3
40°	11423.5	8472.7	2924.1	1852.9	1756.5	1727.7	1705.2	1684.7	1668.3	1676.5	1672.4
42.5°	11911.8	8456.2	2464.4	1746.3	1688.8	1641.6	1596.5	1567.7	1547.2	1555.4	1559.5
45°	12740.8	8661.4	2154.6	1670.4	1625.2	1553.4	1495.9	1465.1	1450.8	1477.4	1481.5
47.5°	13814.0	9108.8	1965.8	1614.9	1565.7	1471.3	1409.7	1381.0	1385.1	1424.1	1434.3
50°	15197.1	9835.2	1875.5	1580.0	1524.7	1401.5	1337.9	1313.3	1325.6	1381.0	1393.3
52.5°	16715.5	10881.7	1885.8	1569.8	1497.9	1350.2	1282.5	1253.8	1274.3	1325.6	1335.8
55°	18467.9	12139.6	2056.1	1584.1	1459.0	1317.4	1237.4	1188.1	1204.5	1251.7	1259.9
57.5°	20415.2	13580.1	2398.7	1580.0	1409.7	1286.6	1190.1	1116.3	1128.6	1157.4	1165.6
60°	22442.7	15320.1	2930.3	1592.4	1387.2	1249.7	1126.5	1034.2	1030.1	1054.7	1058.8
62.5°	24876.2	17333.1	3537.6	1600.6	1401.5	1202.4	1042.4	952.1	939.8	946.0	950.1
65°	27383.8	18790.1	3309.9	1567.7	1446.7	1163.5	968.5	872.1	849.5	845.4	847.4
67.5°	27461.7	17228.5	2320.8	1502.0	1465.1	1142.9	913.1	804.4	767.4	753.1	751.0
70°	24628.0	13996.6	1807.8	1432.3	1391.3	1110.1	861.9	749.0	693.5	671.0	668.9
71°	23244.9	12884.4	1713.4	1397.4	1335.8	1077.3	839.2	724.4	666.9	642.3	638.2
72.5°	21076.0	11550.6	1598.5	1342.0	1229.2	993.1	796.2	689.4	630.0	601.2	595.1
75°	15125.3	7553.4	1372.8	1196.3	1017.8	792.1	697.6	619.7	568.4	533.5	529.4
77.5°	5827.7	3006.2	1038.3	995.2	779.8	619.7	574.6	535.5	498.7	463.7	461.7
80°	1801.6	1344.0	757.2	749.0	564.3	461.7	447.3	437.1	422.7	385.8	377.6
82.5°	962.4	771.5	521.2	484.3	369.4	307.8	324.2	328.3	330.3	291.4	287.3
85°	459.6	408.4	293.4	275.0	215.5	172.3	199.1	215.5	217.5	178.5	166.2
87.5°	219.6	213.4	137.5	104.6	80.0	57.5	69.8	86.2	94.4	67.7	59.5
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)