

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: P383673

Luminaire Tested: **GLEON-SA9C-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
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-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55973.9 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

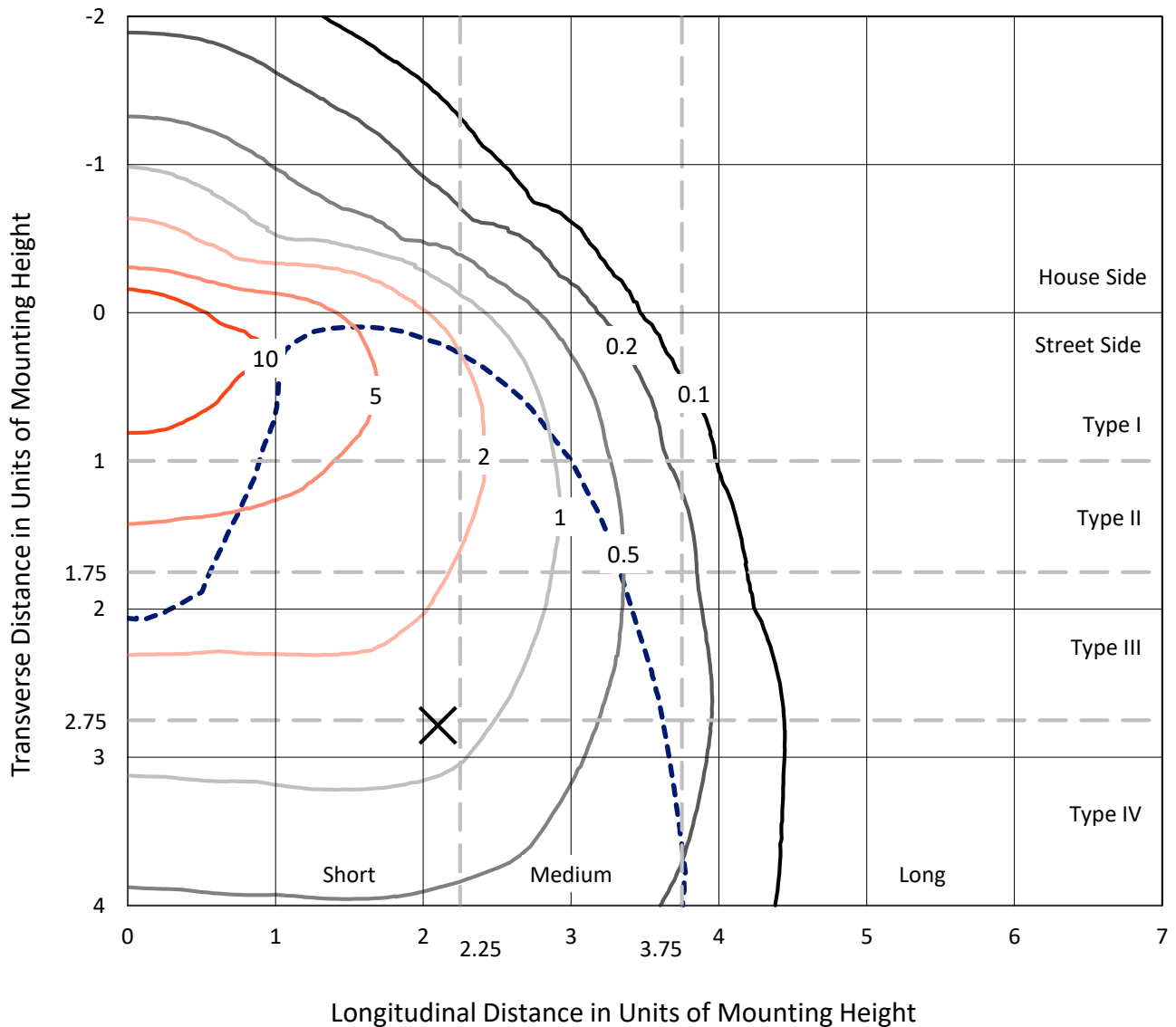
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383673  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

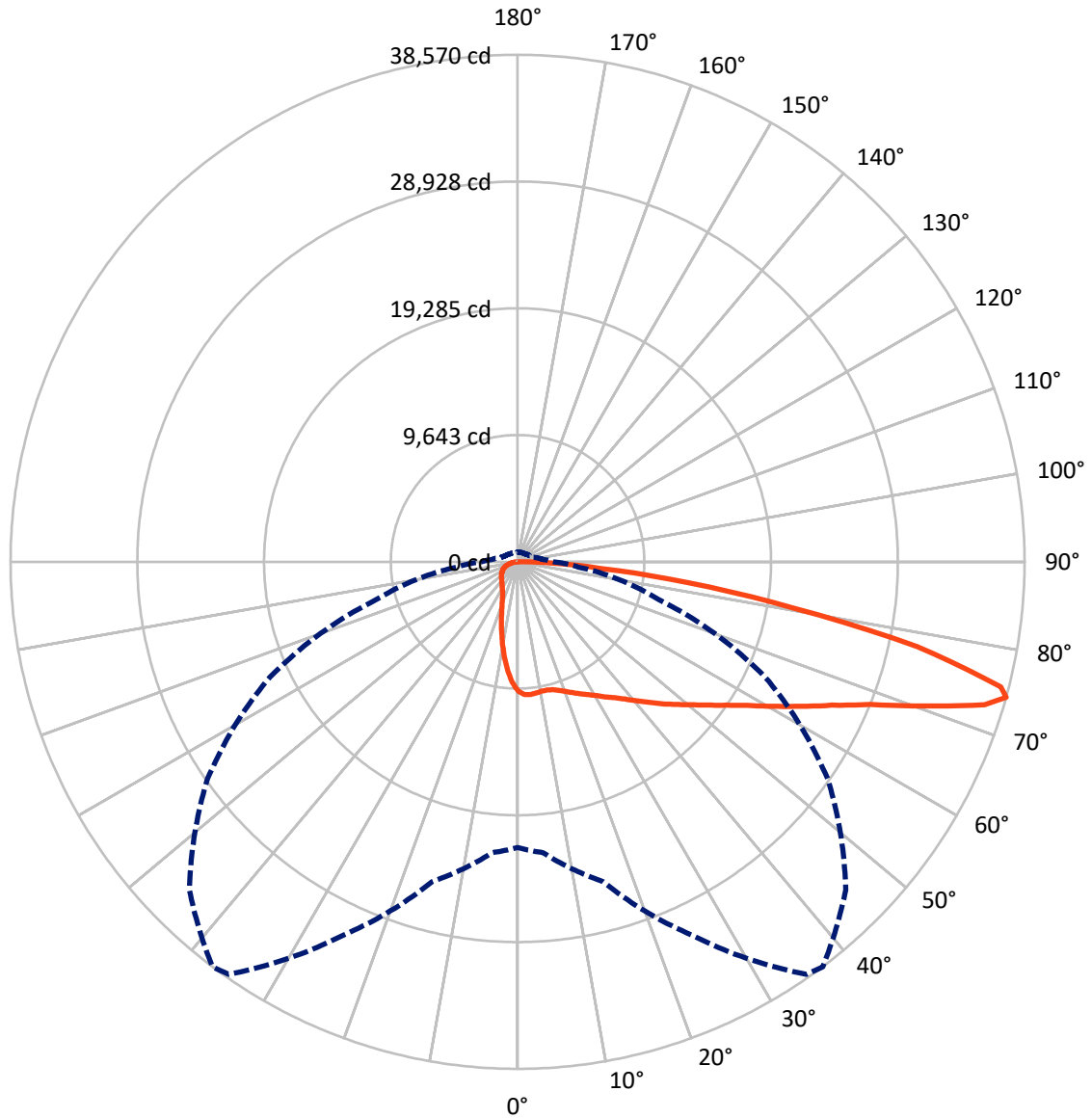
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type IV - Short - N/A

REPORT NUMBER: P383673  
CATALOG NUMBER: GLEON-SA9C-735-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P383673  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL4

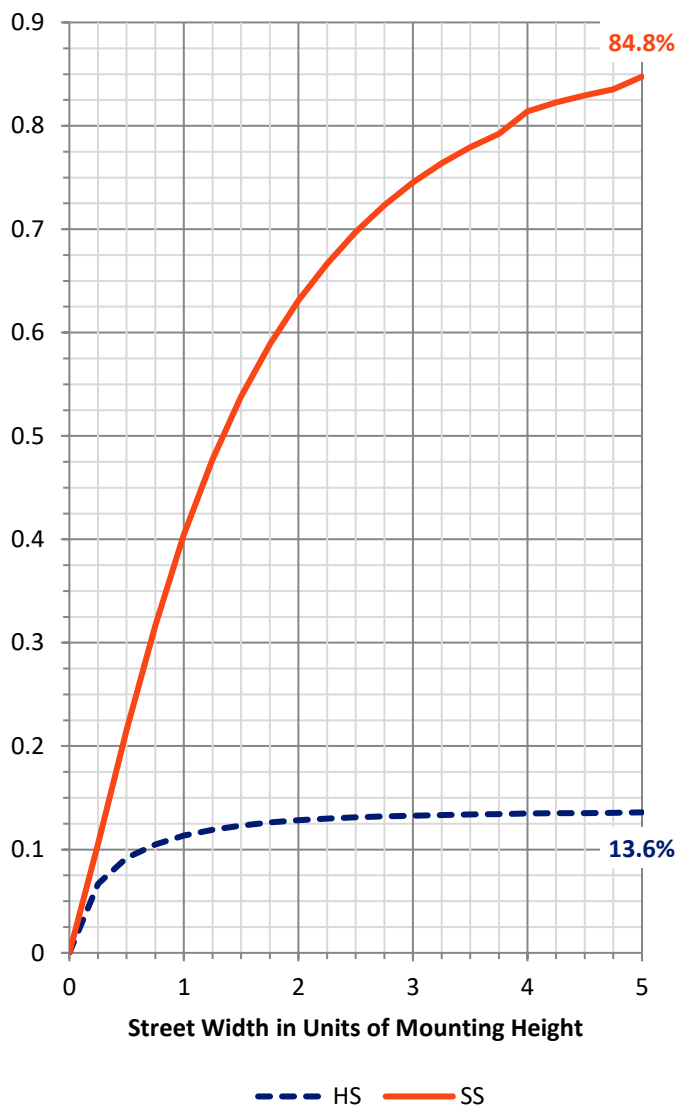
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7701.6	0.0	7701.6
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	48272.3	0.0	48272.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	55973.9	0.0	55973.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	868.5	1.6
10°-20°	2226.2	4.0
20°-30°	3430.1	6.1
30°-40°	4987.9	8.9
40°-50°	7341.3	13.1
50°-60°	10309.5	18.4
60°-70°	13048.7	23.3
70°-80°	11489.9	20.5
80°-90°	2271.8	4.1
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°	55973.9	100.0
0°-180°	55973.9	100.0

**Coefficient of Utilization**



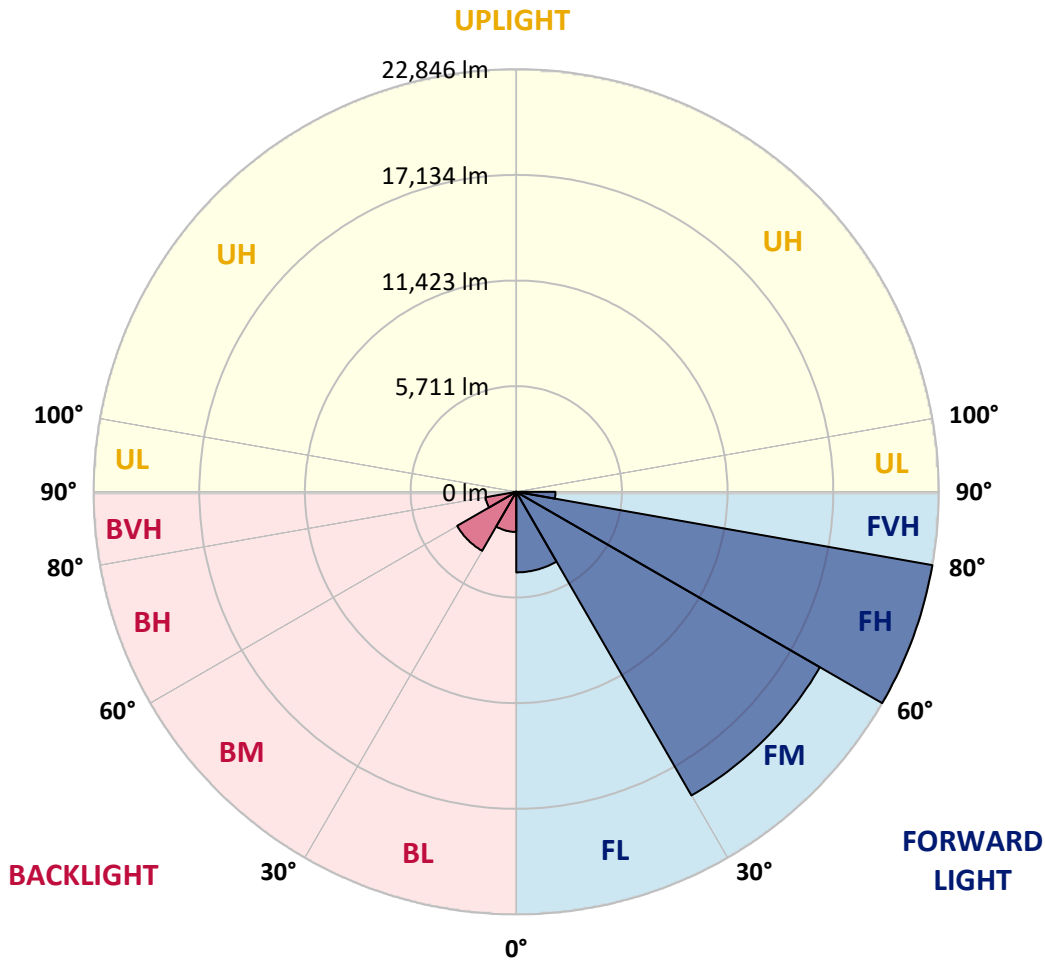
REPORT NUMBER: P383673  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4355.4	7.8			
FM (30°-60°)	18953.2	33.9			
FH (60°-80°)	22845.7	40.8			G5
FVH (80°-90°)	2118.0	3.8			G5
BL (0°-30°)	2169.4	3.9	B3/2500		
BM (30°-60°)	3685.5	6.6	B3/5000		
BH (60°-80°)	1692.9	3.0	B3/2500		G3/2500
BVH (80°-90°)	153.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P383673

CATALOG NUMBER: GLEON-SA9C-735-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4
2.5°	10199.5	10201.5	10199.5	10183.8	10146.3	10114.7	10089.1	10051.7	9968.9	9905.8	9811.2
5°	10296.1	10284.3	10276.5	10246.8	10187.7	10152.2	10102.9	10031.9	9895.9	9769.7	9615.9
7.5°	10250.8	10237.0	10219.3	10183.8	10116.7	10087.2	10018.1	9925.5	9761.9	9596.2	9375.4
10°	10110.8	10106.9	10099.0	10091.1	10033.9	10010.2	9947.2	9848.6	9686.9	9485.8	9227.5
12.5°	9955.1	9965.0	9996.4	10037.9	10012.3	10000.4	9960.9	9894.0	9728.3	9511.4	9199.9
15°	9856.4	9884.1	9968.9	10077.3	10099.0	10095.1	10085.2	10041.8	9866.3	9625.8	9263.0
17.5°	9823.0	9868.3	10030.0	10209.4	10272.5	10286.3	10290.2	10215.4	10020.1	9765.8	9328.1
20°	9884.1	9941.3	10177.8	10424.3	10524.9	10532.7	10515.0	10384.9	10166.0	9886.0	9363.5
22.5°	10069.4	10120.7	10416.5	10694.4	10808.8	10820.7	10767.4	10570.2	10319.8	10028.0	9412.8
25°	10426.3	10489.4	10785.2	11063.2	11122.3	11124.3	11047.4	10802.9	10520.9	10227.2	9519.3
27.5°	10891.6	10954.7	11220.9	11493.0	11461.4	11443.7	11339.2	11094.7	10783.1	10501.2	9708.6
30°	11410.2	11479.2	11731.5	11924.7	11849.8	11814.4	11729.6	11414.1	11147.9	10875.8	9998.4
32.5°	11946.4	12009.5	12230.4	12362.5	12267.8	12252.1	12123.9	11836.1	11623.1	11447.6	10467.7
35°	12496.5	12541.9	12758.8	12833.7	12707.5	12703.6	12668.1	12403.9	12269.8	12352.6	11149.9
37.5°	13058.5	13070.4	13255.6	13259.6	13222.1	13237.9	13275.4	13109.8	13147.2	13405.5	12037.2
40°	13559.3	13590.8	13725.0	13766.3	13831.4	13886.6	14073.9	13965.5	14255.3	14712.8	13141.3
42.5°	13930.0	13991.1	14206.0	14312.5	14523.5	14610.2	14874.4	14975.0	15558.6	16244.7	14454.5
45°	14243.5	14338.1	14683.1	14902.1	15258.9	15410.7	15789.3	16126.4	17031.5	17906.9	15836.6
47.5°	14582.6	14702.9	15134.7	15552.7	16037.7	16209.2	16897.3	17402.1	18602.9	19578.9	17139.9
50°	15081.5	15174.1	15596.1	16252.6	16857.9	17078.8	18031.1	18754.7	20200.0	21172.0	18269.7
52.5°	15777.4	15741.9	16098.8	17019.7	17832.0	18104.1	19241.7	20194.0	21818.7	22613.3	19224.0
55°	16477.4	16418.2	16668.6	17822.1	18967.6	19253.5	20574.5	21639.3	23358.6	23910.7	19955.4
57.5°	17256.2	17143.8	17354.8	18727.1	20261.1	20602.2	22067.2	23175.2	24872.9	24959.6	20420.7
60°	18058.7	17906.9	18143.5	19849.0	21903.5	22305.7	23814.1	24673.7	26300.4	25799.6	20570.6
62.5°	18760.6	18654.1	19018.9	21101.0	23754.9	24196.6	25529.4	26266.8	27708.1	26148.5	20030.4
65°	19373.8	19391.6	20022.5	22508.8	25819.2	26290.5	27497.1	28230.6	28816.2	25941.5	18766.5
67.5°	20105.3	20205.8	21282.4	24362.2	28418.0	28934.5	30360.1	30371.9	29435.3	24726.9	16278.2
70°	21172.0	21379.0	23015.6	26933.3	32112.9	32822.7	33922.9	31629.9	28565.8	21434.3	12808.1
72.5°	22118.4	22504.9	24859.0	29875.0	36616.2	37154.5	36007.0	30904.3	24932.0	16063.3	7979.5
74°	21733.9	22213.0	25194.3	31324.2	38311.9	38570.2	35303.0	28786.7	20787.5	11124.3	4637.4
75°	20905.8	21426.3	24705.3	31310.4	38096.9	37953.0	33603.4	26367.4	17120.2	7587.1	3085.7
77.5°	16871.7	17421.8	20817.1	26834.7	31237.5	31101.4	25813.4	17688.0	7498.3	2488.3	1567.5
80°	9809.1	10229.1	12922.4	17041.3	21063.5	21310.0	16976.2	8752.4	2949.7	1398.0	1062.7
82.5°	4357.4	4647.3	6242.4	8699.1	12711.4	13028.9	8890.3	4586.1	1821.8	849.8	638.9
85°	2858.9	3073.8	3789.6	4142.5	6053.1	6270.0	4351.5	3570.7	1202.7	467.3	469.2
87.5°	2056.5	2263.5	2815.6	2458.7	2778.2	2630.2	2368.0	3304.6	483.1	266.1	157.7
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: P383673  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4	9862.4
2.5°	9769.7	9738.2	9667.2	9533.1	9458.2	9395.1	9290.6	9229.5	9201.8	9199.9	9211.7
5°	9527.2	9454.3	9270.9	9046.1	8866.7	8703.1	8499.9	8377.7	8291.0	8239.7	8253.5
7.5°	9245.2	9130.8	8843.0	8484.2	8196.3	7878.8	7565.4	7378.0	7232.2	7123.7	7143.4
10°	9052.0	8894.3	8474.3	7957.7	7478.7	7017.3	6585.5	6327.2	6122.1	5964.3	5976.2
12.5°	8986.9	8774.0	8192.4	7502.3	6829.9	6199.0	5635.1	5238.7	5027.8	4848.4	4862.2
15°	8996.8	8710.9	7955.8	7092.2	6246.3	5451.7	4767.6	4304.2	4018.3	3894.1	3896.0
17.5°	9004.7	8638.0	7707.3	6652.5	5668.6	4753.8	4010.4	3541.2	3271.0	3156.6	3158.6
20°	8979.1	8519.7	7399.7	6147.7	5065.3	4113.0	3393.3	2995.0	2790.0	2701.2	2701.2
22.5°	8945.6	8379.6	7052.7	5641.0	4469.8	3556.9	2951.6	2648.0	2529.7	2470.6	2468.5
25°	8961.3	8275.2	6697.8	5120.4	3921.7	3113.3	2657.8	2456.7	2377.9	2340.4	2338.5
27.5°	9046.1	8225.8	6370.5	4601.9	3442.5	2780.1	2460.7	2318.7	2267.5	2243.8	2243.8
30°	9199.9	8225.8	6029.4	4160.3	3044.3	2533.6	2308.8	2212.2	2176.7	2161.0	2161.0
32.5°	9468.1	8271.2	5700.1	3722.6	2726.8	2340.4	2182.6	2117.6	2090.0	2082.1	2082.1
35°	9929.5	8425.0	5378.8	3308.5	2470.6	2182.6	2062.4	2024.9	2005.2	2003.2	2009.2
37.5°	10578.1	8738.6	5077.1	3002.8	2289.1	2054.5	1961.8	1932.2	1920.4	1930.3	1938.2
40°	11394.4	9164.4	4803.1	2726.8	2151.1	1952.0	1869.2	1849.4	1843.5	1857.3	1869.2
42.5°	12380.3	9740.2	4578.3	2527.7	2044.7	1865.2	1790.2	1766.6	1760.7	1776.5	1792.3
45°	13446.9	10359.3	4420.6	2379.8	1961.8	1800.1	1721.3	1695.7	1683.9	1691.7	1709.5
47.5°	14417.0	10944.8	4357.4	2275.3	1882.9	1745.0	1660.2	1628.6	1608.9	1605.0	1618.8
50°	15235.3	11380.6	4387.0	2212.2	1819.9	1683.9	1601.1	1565.6	1535.9	1518.2	1528.0
52.5°	15830.7	11654.7	4414.6	2184.7	1770.6	1616.8	1535.9	1502.4	1463.0	1433.4	1433.4
55°	16262.5	11717.8	4353.5	2163.0	1733.1	1543.9	1463.0	1431.4	1392.0	1358.5	1354.6
57.5°	16432.0	11540.3	4126.8	2131.4	1707.5	1474.8	1386.1	1362.5	1328.9	1289.4	1287.5
60°	16203.3	10992.2	3689.0	2064.4	1674.0	1417.6	1309.2	1293.5	1277.6	1240.2	1238.2
62.5°	15284.6	9789.4	3123.2	1928.3	1606.9	1356.5	1238.2	1246.1	1248.1	1222.5	1218.5
65°	13618.5	8137.2	2571.1	1750.8	1506.4	1283.6	1165.3	1202.7	1224.4	1220.5	1214.6
67.5°	11197.2	6333.0	2178.7	1563.5	1374.3	1183.0	1086.4	1129.8	1147.5	1161.4	1157.4
70°	8310.7	4465.8	1802.1	1366.4	1214.6	1064.7	983.9	1005.6	993.8	1009.5	1015.4
72.5°	4633.4	2679.5	1468.9	1169.2	1048.9	926.7	869.5	865.6	840.0	840.0	840.0
74°	2780.1	1965.8	1291.5	1047.0	948.4	836.0	786.7	769.0	745.3	747.3	745.3
75°	2235.9	1689.7	1185.0	966.1	877.4	782.8	733.5	709.8	692.0	692.0	690.1
77.5°	1411.8	1283.6	954.3	769.0	701.9	644.7	611.2	579.7	579.7	577.7	575.7
80°	1066.7	1021.3	743.3	581.7	538.2	494.9	473.2	459.4	459.4	465.3	463.4
82.5°	731.5	769.0	522.5	406.2	384.4	353.0	349.0	350.9	345.0	337.1	335.2
85°	534.3	577.7	353.0	256.4	234.7	214.9	230.7	238.6	228.7	211.0	203.1
87.5°	205.0	378.6	189.3	106.5	98.6	84.8	98.6	102.6	110.4	86.7	88.7
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)