

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: P383462

Luminaire Tested: **GLEON-SA7C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33096 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

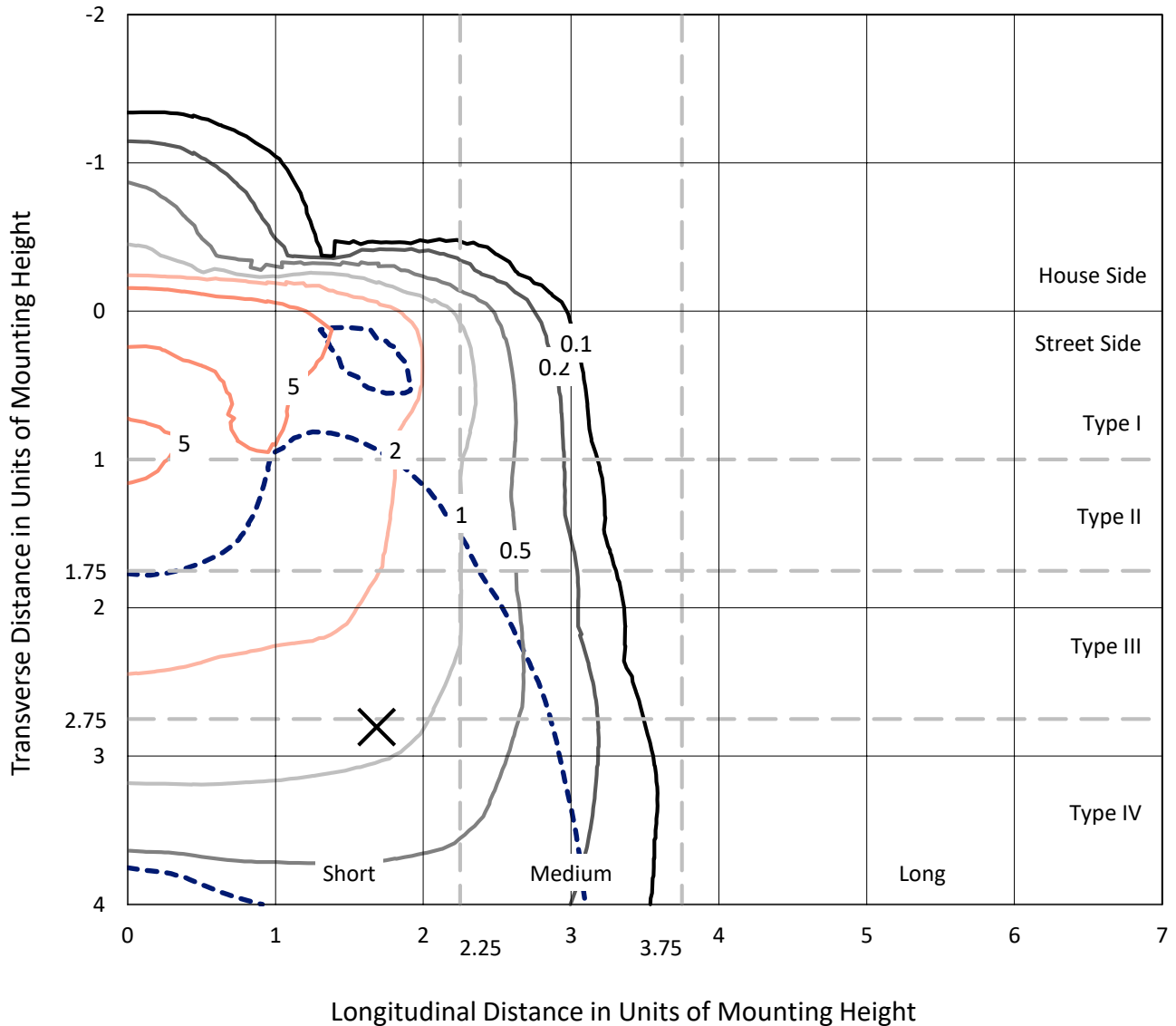
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383462  
 CATALOG NUMBER: GLEON-SA7C-735-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

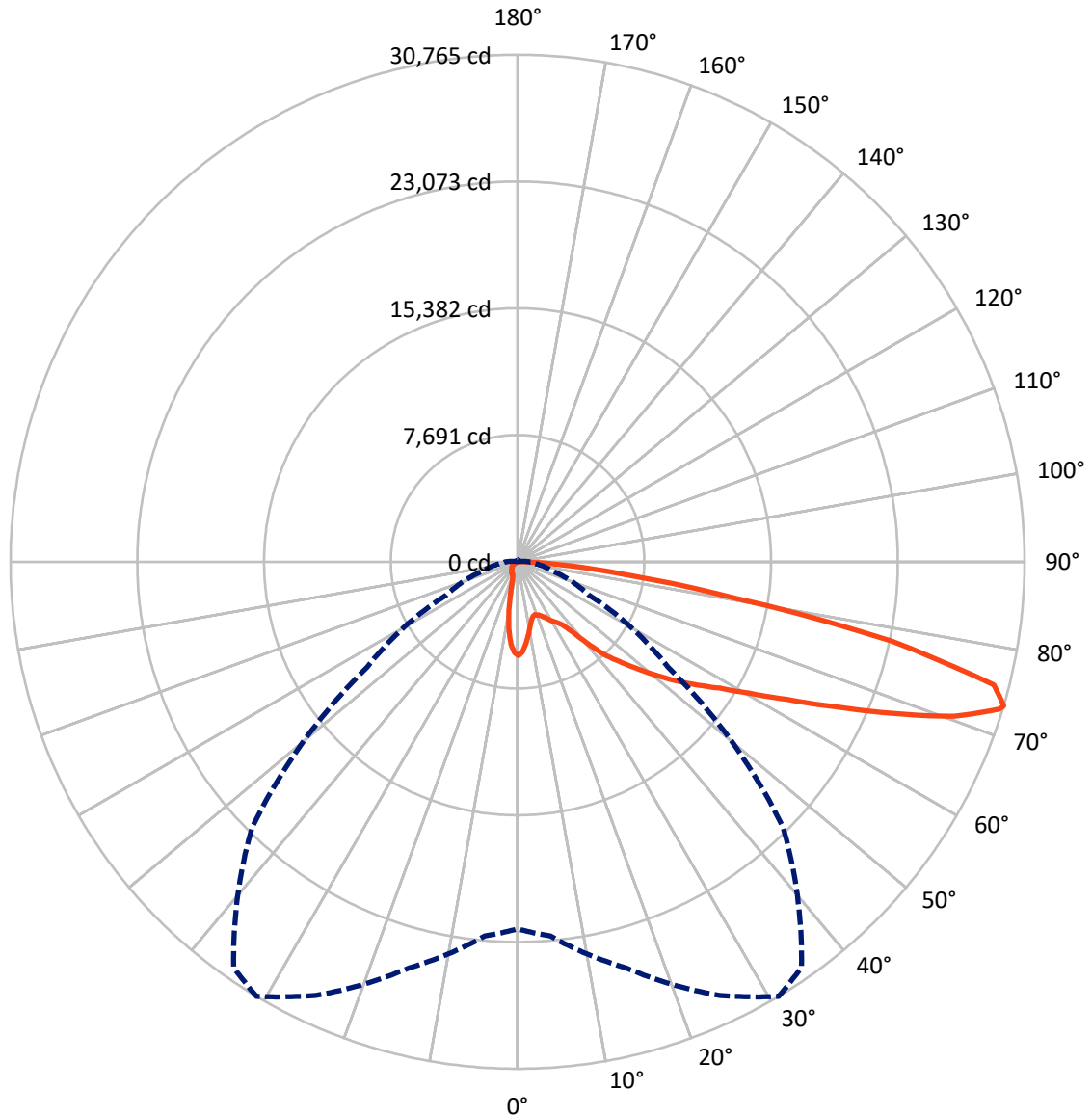
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P383462  
CATALOG NUMBER: GLEON-SA7C-735-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P383462  
 CATALOG NUMBER: GLEON-SA7C-735-U-T4FT-HSS

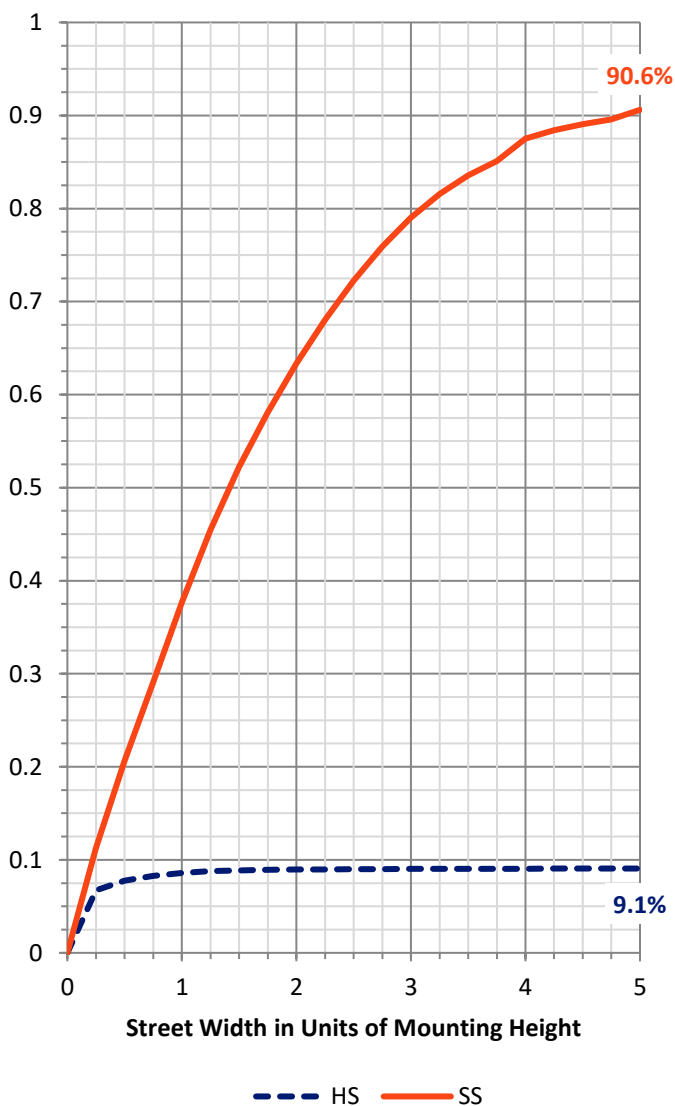
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3016.8	0.0	3016.8
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	30079.2	0.0	30079.2
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	33096.0	0.0	33096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.1	1.4
10°-20°	1025.1	3.1
20°-30°	1535.9	4.6
30°-40°	2443.7	7.4
40°-50°	4363.8	13.2
50°-60°	6771.3	20.5
60°-70°	9001.5	27.2
70°-80°	6771.0	20.5
80°-90°	711.5	2.1
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°	33096.0	100.0
0°-180°	33096.0	100.0

**Coefficient of Utilization**



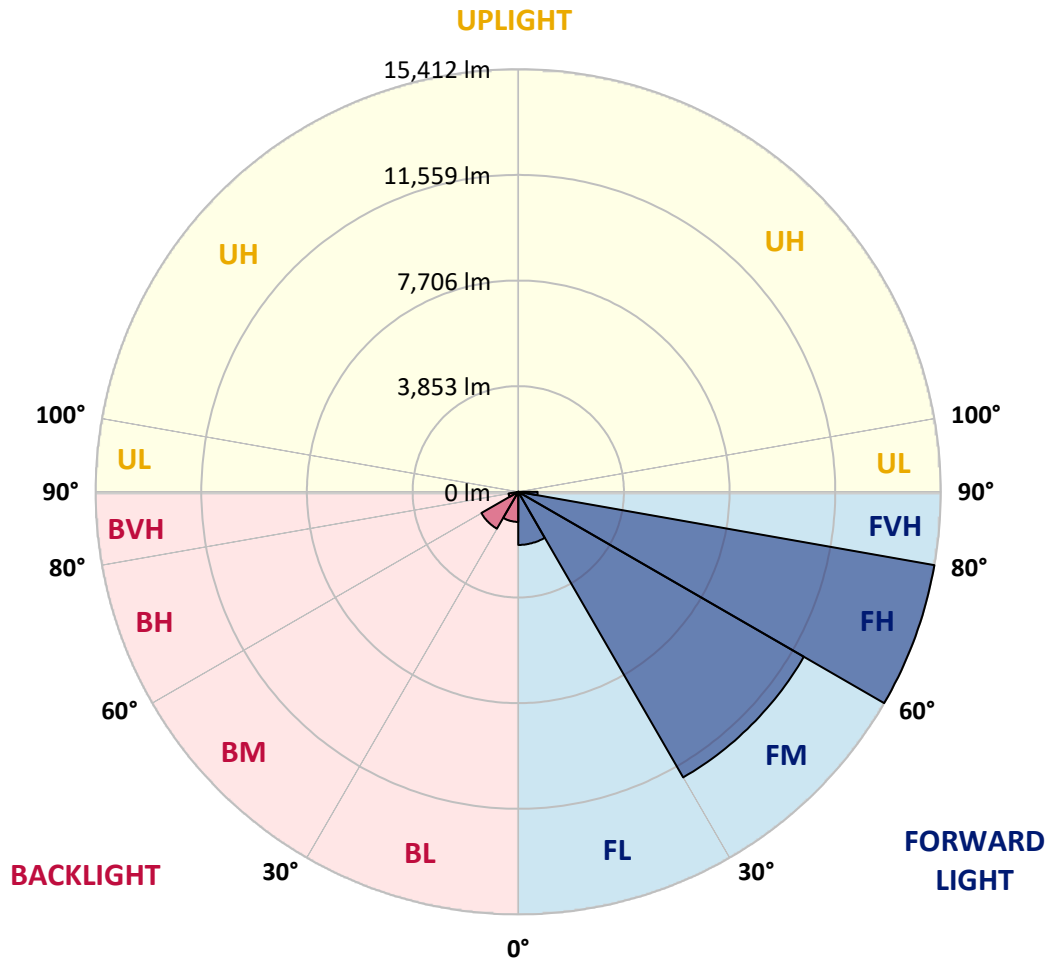
REPORT NUMBER: P383462  
 CATALOG NUMBER: GLEON-SA7C-735-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.2	5.9			
FM (30°-60°)	12025.9	36.3			
FH (60°-80°)	15411.6	46.6			G5
FVH (80°-90°)	705.5	2.1			G4/750
BL (0°-30°)	1097.0	3.3	B3/2500		
BM (30°-60°)	1552.8	4.7	B2/2500		
BH (60°-80°)	360.9	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	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 IV Short





REPORT NUMBER: P383462

CATALOG NUMBER: GLEON-SA7C-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3
2.5°	5396.3	5418.9	5443.2	5448.1	5488.6	5490.2	5548.5	5592.2	5636.0	5678.1	5692.6
5°	4842.4	4879.6	4923.3	4967.1	5052.9	5086.9	5229.4	5375.2	5514.5	5647.2	5712.1
7.5°	4251.2	4293.3	4354.9	4463.4	4559.0	4625.3	4850.5	5109.6	5368.7	5613.2	5754.2
10°	3711.9	3750.8	3815.6	3930.6	4077.9	4168.7	4471.5	4831.0	5211.6	5582.5	5817.3
12.5°	3368.6	3389.6	3425.3	3548.4	3681.2	3783.2	4139.5	4584.9	5082.1	5580.9	5919.3
15°	3305.4	3311.9	3282.8	3337.8	3441.5	3540.3	3901.4	4385.6	4983.3	5606.8	6052.2
17.5°	3405.8	3402.6	3305.4	3299.0	3381.5	3462.6	3784.8	4248.0	4913.6	5666.7	6223.9
20°	3558.0	3546.8	3378.4	3347.5	3435.0	3511.1	3776.7	4196.2	4887.7	5767.1	6432.7
22.5°	3760.6	3741.1	3477.1	3444.7	3538.7	3618.0	3877.1	4246.4	4910.4	5901.5	6675.7
25°	4011.5	3982.4	3647.2	3611.5	3707.1	3786.5	4056.9	4390.5	4978.4	6065.1	6983.3
27.5°	4295.0	4252.9	3919.2	3826.9	3935.4	4018.0	4296.6	4610.8	5085.3	6238.4	7360.7
30°	4562.2	4507.1	4205.9	4053.6	4186.5	4278.8	4555.7	4873.1	5257.0	6505.6	7877.4
32.5°	4831.0	4769.5	4461.7	4280.4	4400.3	4500.7	4822.9	5234.3	5579.2	6913.8	8564.0
35°	5449.6	5384.9	5007.5	4707.9	4706.4	4763.0	5197.0	5728.3	6005.2	7482.2	9383.5
37.5°	6491.0	6453.8	6094.3	5525.8	5373.5	5310.4	5707.2	6317.8	6617.3	8264.4	10308.2
40°	7631.1	7598.8	7195.6	6680.5	6448.9	6293.4	6439.2	7138.8	7482.2	9219.9	11252.4
42.5°	8918.7	8764.8	8045.8	7891.9	7684.6	7566.4	7435.2	8151.0	8544.6	10259.7	12188.6
45°	10088.0	9828.9	8896.0	8662.8	8615.9	8645.0	8717.9	9511.5	9739.8	11495.4	13121.4
47.5°	10784.4	10580.3	9864.5	9641.1	9628.1	9820.7	10371.4	11048.3	10930.1	12572.4	13942.5
50°	11446.8	11262.1	10667.8	10722.9	10782.8	11045.2	12248.5	12629.0	12016.9	13548.9	14695.5
52.5°	11982.9	11701.1	11390.1	11699.4	11994.1	12416.9	14185.4	14047.7	12787.7	14326.3	15340.1
55°	12292.1	12164.2	12314.9	12625.8	13179.6	13866.4	16013.9	15228.4	13351.3	15035.6	15769.2
57.5°	13425.8	13174.8	13474.5	13743.3	14465.5	15426.0	17579.9	16107.8	13757.8	15474.5	15868.1
60°	14797.5	14595.1	14771.6	15218.6	16193.6	17322.4	19044.0	16825.2	13970.0	15756.3	15612.2
62.5°	16980.7	16713.5	16603.3	17103.8	18396.1	19628.6	20155.0	17322.4	13923.0	15631.6	14734.4
65°	19905.6	19628.6	19136.2	19589.7	21233.5	22103.2	21397.1	17427.7	13599.1	14622.7	12515.6
67.5°	22901.6	22700.8	22279.7	23044.2	24527.6	24807.9	22710.6	17171.8	12556.1	11856.6	8842.6
70°	24880.7	24794.9	25068.6	26759.4	28082.5	28001.6	23915.4	15796.8	9786.7	7291.1	4374.4
72.5°	23453.9	23865.3	25886.4	28952.2	30568.5	29907.7	23296.8	12130.2	5593.9	2805.0	1264.9
73°	22271.6	22798.0	25518.8	29034.8	30764.5	30040.5	22777.0	11134.2	4767.8	2213.9	958.7
75°	15494.0	16140.2	21126.7	27041.2	29847.8	28621.8	18985.7	6814.9	2209.1	981.4	387.1
77.5°	7522.7	8000.4	11633.0	19537.9	23212.6	22362.4	11819.3	2539.4	997.6	613.8	178.1
80°	2808.2	3122.5	5049.6	9943.9	13414.5	13765.9	5198.7	960.3	664.0	494.0	90.7
82.5°	735.3	819.5	1862.4	4434.3	6874.9	7195.6	1639.0	484.2	485.9	406.5	55.1
85°	234.8	268.8	581.4	1990.4	3239.1	2843.9	427.6	234.8	353.1	302.8	30.7
87.5°	29.2	37.3	184.6	468.0	714.2	396.7	66.4	69.7	150.6	168.4	17.8
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: P383462

CATALOG NUMBER: GLEON-SA7C-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3	5694.3
2.5°	5707.2	5699.1	5700.7	5658.6	5631.1	5576.1	5519.3	5493.4	5465.9	5454.6	5465.9
5°	5736.4	5721.8	5679.6	5550.1	5412.5	5234.3	5067.5	4941.1	4782.5	4738.7	4784.1
7.5°	5781.7	5752.6	5629.4	5365.4	5059.4	4719.3	4337.1	4058.6	3830.2	3682.8	3736.3
10°	5848.1	5793.0	5545.2	5096.6	4549.2	3946.8	3404.2	2981.5	2681.9	2558.9	2554.0
12.5°	5959.9	5856.2	5441.6	4746.8	3925.7	3122.5	2411.5	1953.2	1710.2	1553.1	1549.9
15°	6082.9	5930.7	5310.4	4327.3	3200.1	2236.6	1553.1	1205.0	1047.8	997.6	991.2
17.5°	6233.5	6016.5	5140.4	3810.8	2440.7	1481.9	1013.8	913.4	907.0	902.1	902.1
20°	6423.0	6118.6	4921.7	3219.6	1731.3	989.5	861.6	868.1	871.3	864.8	866.4
22.5°	6643.2	6222.2	4661.0	2584.8	1171.0	827.6	824.3	832.4	835.7	832.4	834.0
25°	6899.1	6342.1	4343.5	1919.2	845.4	785.5	793.6	804.9	813.0	813.0	813.0
27.5°	7216.6	6487.8	3961.3	1339.4	730.4	741.7	764.4	785.5	796.8	800.0	800.0
30°	7629.6	6669.2	3503.0	918.2	664.0	683.5	725.6	766.0	787.1	790.3	791.9
32.5°	8151.0	6873.2	2971.8	678.5	607.3	621.9	667.3	735.3	775.8	782.2	782.2
35°	8748.6	7109.7	2400.1	591.2	566.8	571.7	607.3	685.1	756.3	774.1	775.8
37.5°	9402.9	7342.9	1825.2	552.2	532.8	532.8	558.7	625.2	709.4	764.4	770.9
40°	10013.5	7483.8	1279.4	521.5	502.0	502.0	524.7	573.3	652.6	735.3	753.1
42.5°	10577.1	7532.4	890.7	492.3	472.9	477.8	497.2	536.1	596.0	678.5	694.7
45°	11156.9	7524.3	649.4	458.3	443.8	458.3	472.9	502.0	545.8	592.7	596.0
47.5°	11594.1	7456.3	515.1	425.9	416.2	435.7	448.6	468.0	492.3	489.1	489.1
50°	12003.9	7291.1	414.6	382.2	388.6	411.4	417.8	424.3	425.9	395.2	391.9
52.5°	12314.9	7033.6	332.0	335.3	361.2	383.8	377.4	367.6	351.5	314.2	307.7
55°	12418.5	6538.0	260.7	276.9	320.6	349.8	325.5	304.4	273.7	242.9	236.4
57.5°	12230.7	5898.3	212.1	215.4	270.4	294.7	267.3	242.9	208.9	183.0	178.1
60°	11832.2	5187.3	174.9	162.0	208.9	230.0	212.1	187.9	157.1	137.7	136.0
62.5°	11041.9	4429.4	144.1	126.3	158.7	176.5	165.2	147.4	121.5	108.5	106.8
65°	9380.3	3543.5	116.6	102.0	123.1	137.7	127.9	115.0	95.6	85.8	84.2
67.5°	6547.8	2395.3	95.6	84.2	97.2	108.5	100.4	93.9	76.1	74.5	76.1
70°	3158.0	1154.7	79.4	68.0	76.1	84.2	81.0	76.1	72.8	84.2	97.2
72.5°	905.3	387.1	63.2	56.6	61.6	66.4	69.7	68.0	79.4	102.0	118.2
73°	696.4	312.5	59.9	53.5	58.3	64.7	68.0	66.4	81.0	103.7	118.2
75°	298.0	150.6	45.4	43.7	48.6	56.6	59.9	59.9	81.0	105.3	113.4
77.5°	134.4	81.0	29.2	34.0	42.1	45.4	50.2	50.2	64.7	81.0	81.0
80°	76.1	43.7	22.6	25.9	30.7	30.7	30.7	27.6	29.2	32.4	35.6
82.5°	48.6	29.2	17.8	21.1	19.5	16.2	12.9	12.9	11.4	12.9	16.2
85°	27.6	16.2	16.2	12.9	8.1	6.5	8.1	6.5	1.6	0.0	1.6
87.5°	16.2	9.7	4.8	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)