

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: P382997

Luminaire Tested: **GLEON-SA3C-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19706.9 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

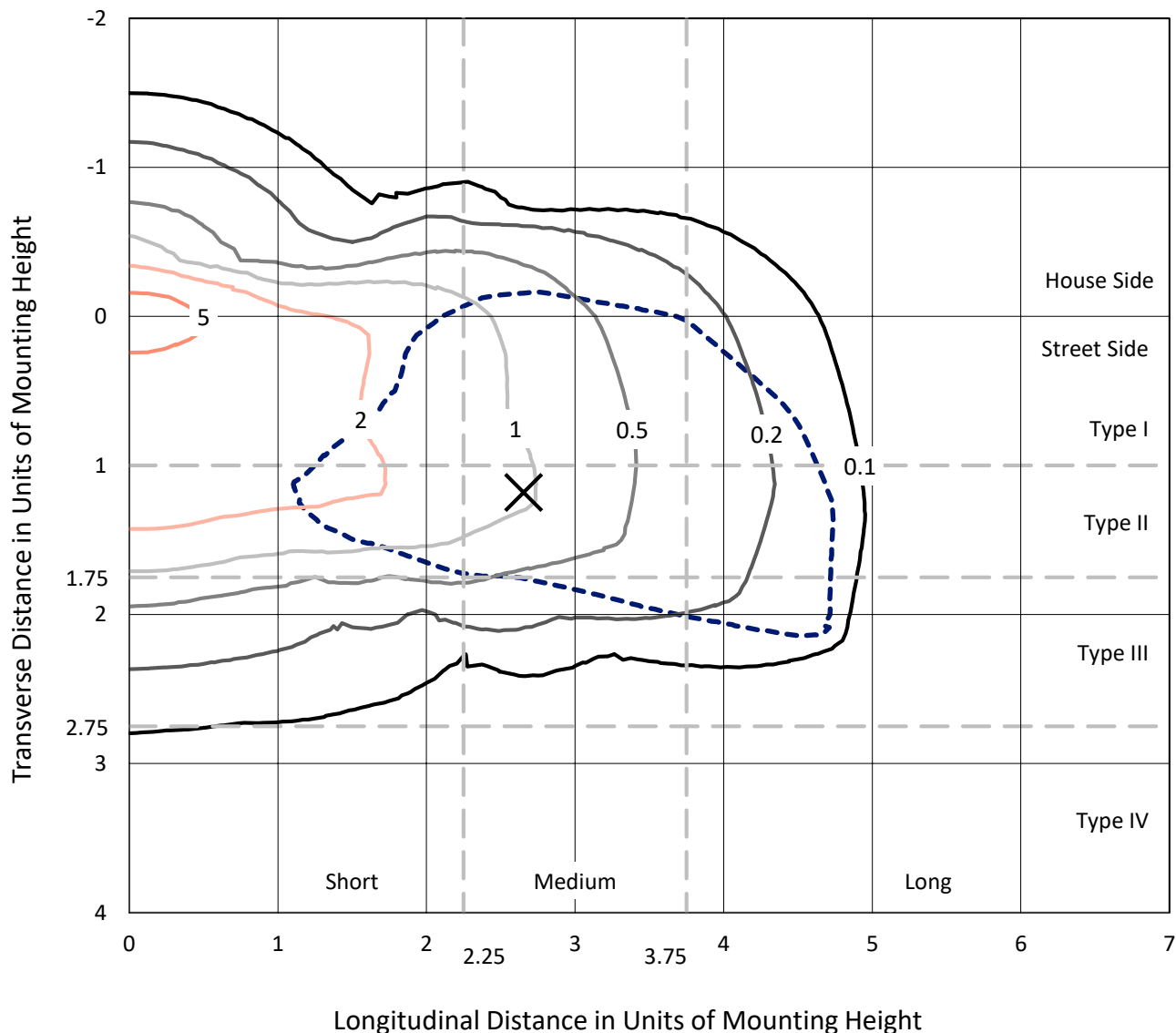
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382997  
 CATALOG NUMBER: GLEON-SA3C-735-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

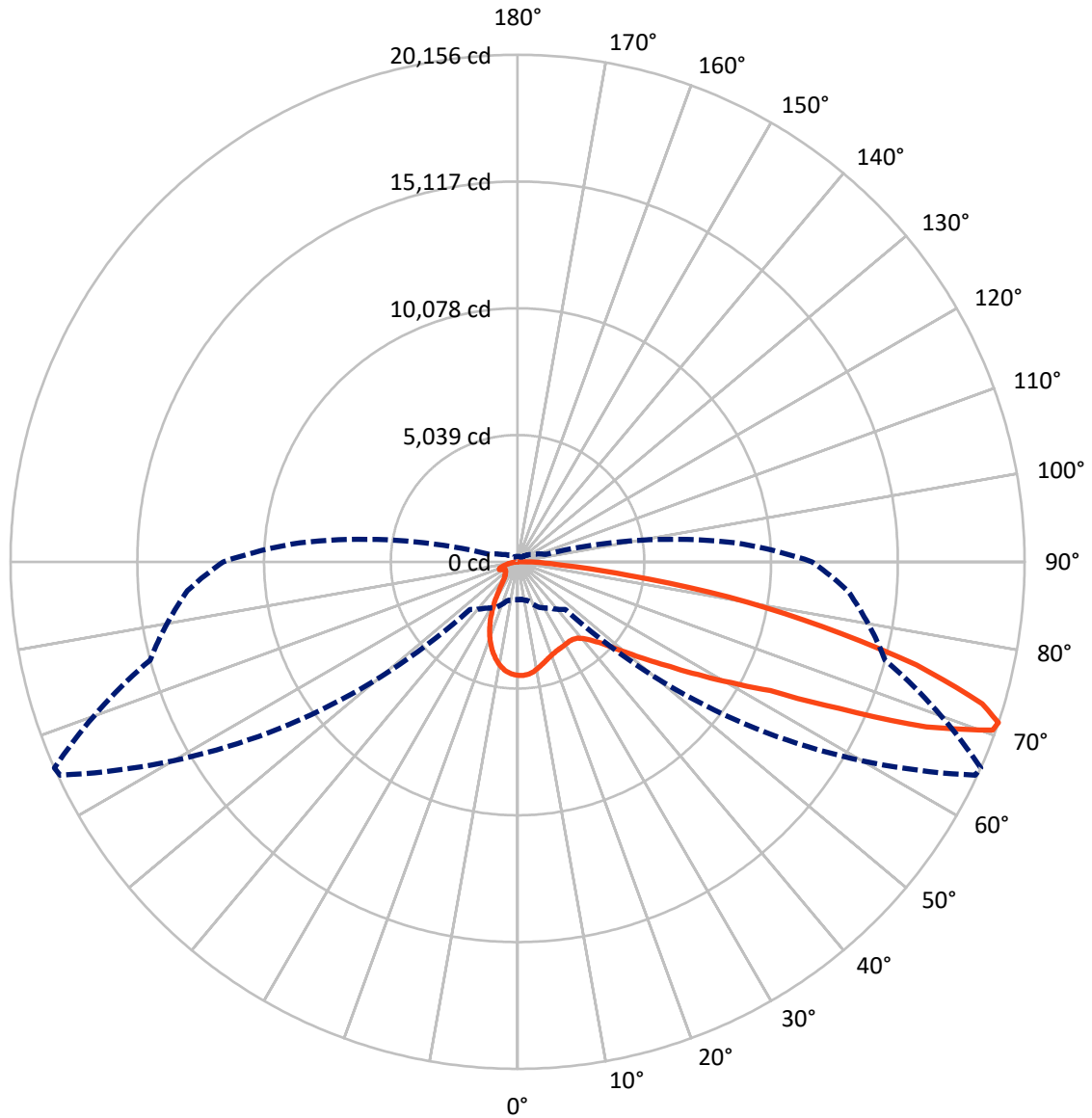
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P382997  
CATALOG NUMBER: GLEON-SA3C-735-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P382997  
 CATALOG NUMBER: GLEON-SA3C-735-U-SL2

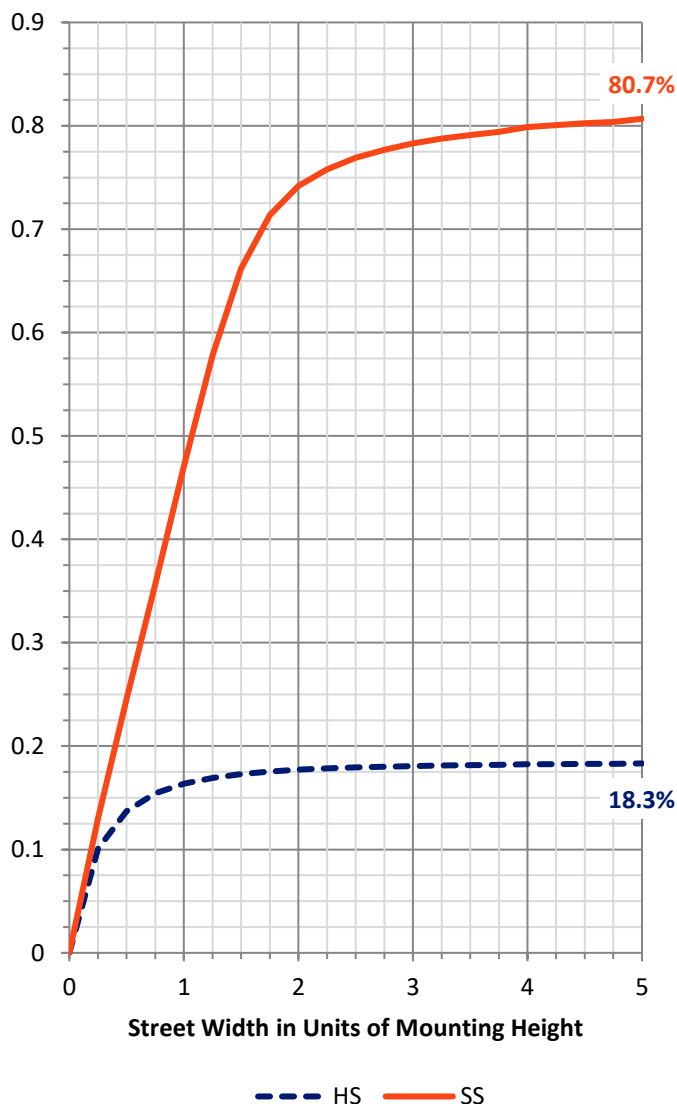
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3652.3	0.0	3652.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	16054.7	0.0	16054.7
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	19706.9	0.0	19706.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.4	2.0
10°-20°	953.1	4.8
20°-30°	1280.2	6.5
30°-40°	1684.1	8.5
40°-50°	2450.0	12.4
50°-60°	3827.1	19.4
60°-70°	4794.1	24.3
70°-80°	3656.8	18.6
80°-90°	664.0	3.4
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°	19706.9	100.0
0°-180°	19706.9	100.0

**Coefficient of Utilization**

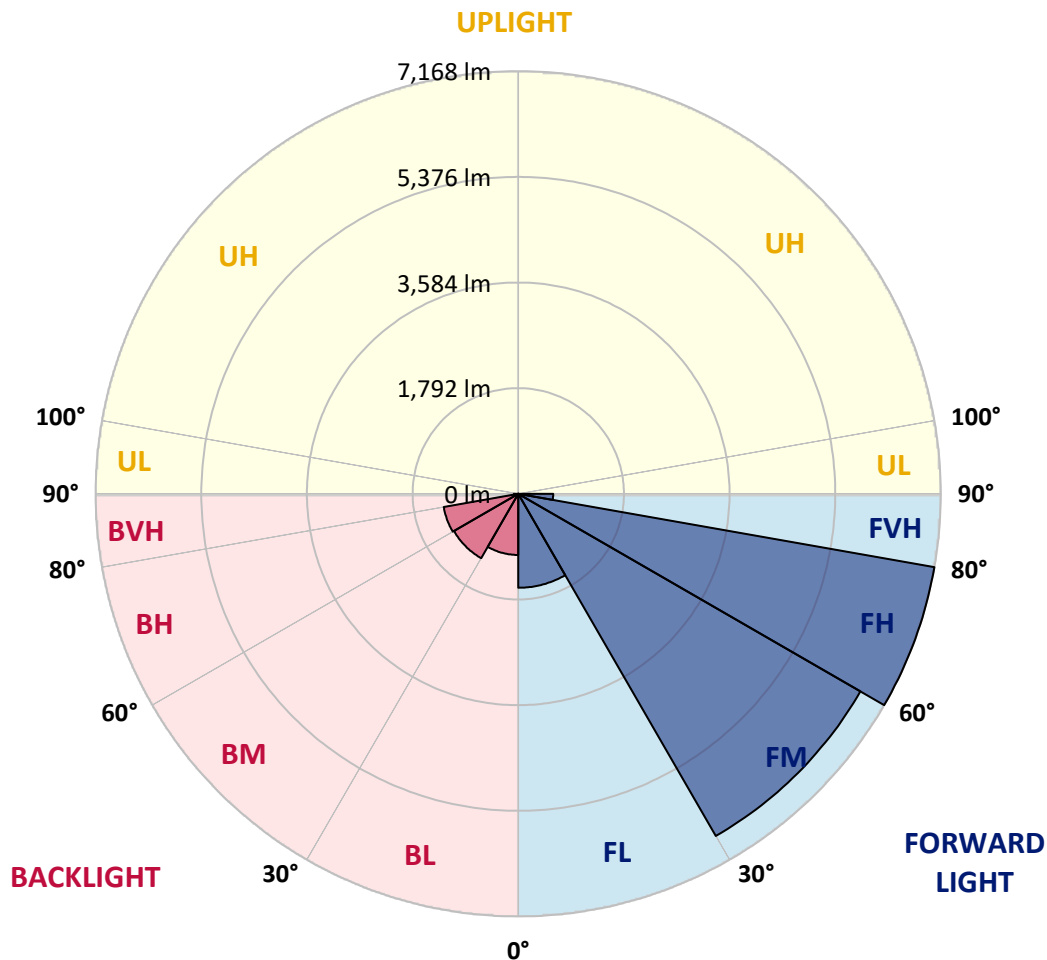


REPORT NUMBER: P382997  
 CATALOG NUMBER: GLEON-SA3C-735-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.6	8.1			
FM (30°-60°)	6701.3	34.0			
FH (60°-80°)	7167.6	36.4			G3/7500
FVH (80°-90°)	592.2	3.0			G4/750
BL (0°-30°)	1037.1	5.3	B3/2500		
BM (30°-60°)	1259.9	6.4	B2/2500		
BH (60°-80°)	1283.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	71.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





REPORT NUMBER: P382997  
 CATALOG NUMBER: GLEON-SA3C-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5
2.5°	4430.8	4424.0	4444.4	4465.5	4473.7	4487.3	4507.7	4519.2	4518.6	4520.6	4513.8
5°	4136.8	4128.0	4168.9	4202.1	4266.1	4338.2	4426.0	4488.6	4490.0	4525.4	4534.9
7.5°	3858.6	3852.4	3899.4	3953.1	4027.3	4137.6	4279.7	4414.4	4422.6	4518.6	4551.9
10°	3635.4	3634.1	3679.6	3738.1	3824.6	3947.7	4111.0	4308.3	4320.5	4485.9	4554.6
12.5°	3461.2	3464.0	3503.4	3570.1	3661.3	3789.8	3966.7	4189.3	4209.0	4434.2	4539.0
15°	3332.6	3343.5	3375.5	3442.8	3532.6	3663.3	3845.0	4079.0	4109.0	4376.3	4530.1
17.5°	3259.1	3271.4	3293.9	3349.7	3434.0	3559.9	3732.0	3988.5	4015.7	4332.2	4530.8
20°	3237.3	3247.6	3260.5	3294.5	3366.0	3480.3	3642.9	3906.9	3936.2	4296.8	4537.6
22.5°	3280.3	3287.7	3289.1	3286.3	3329.9	3423.1	3578.3	3847.0	3878.3	4273.6	4542.3
25°	3372.1	3382.3	3374.8	3349.7	3335.3	3392.5	3544.9	3807.5	3838.8	4256.6	4532.8
27.5°	3510.2	3511.6	3505.4	3472.8	3405.4	3395.9	3534.7	3784.4	3814.3	4236.9	4513.1
30°	3698.0	3706.8	3695.9	3651.8	3541.5	3450.4	3547.0	3762.0	3789.2	4211.7	4481.1
32.5°	3917.7	3939.5	3938.9	3892.6	3734.8	3572.1	3597.3	3748.4	3769.4	4185.2	4442.4
35°	4145.7	4175.7	4231.5	4211.7	4016.4	3764.7	3693.9	3770.1	3784.4	4181.7	4415.2
37.5°	4382.5	4412.4	4527.4	4580.4	4351.8	4040.2	3846.3	3847.0	3853.8	4223.3	4413.1
40°	4630.2	4662.1	4834.9	4973.1	4786.7	4389.3	4091.9	4007.6	4000.1	4325.3	4453.3
42.5°	4977.2	5005.7	5213.2	5389.5	5269.0	4836.3	4431.5	4255.2	4239.6	4525.4	4581.8
45°	5416.0	5440.5	5660.9	5849.4	5787.5	5346.6	4858.1	4596.1	4593.4	4858.8	4842.5
47.5°	5937.9	5956.9	6154.9	6337.2	6359.7	5933.8	5394.2	5122.0	5077.9	5316.0	5245.9
50°	6481.5	6502.6	6637.3	6833.3	7000.0	6719.6	6084.1	5766.4	5707.2	5919.5	5817.4
52.5°	6841.5	6869.3	6986.3	7234.7	7719.8	7581.0	6900.0	6547.5	6457.7	6651.0	6572.7
55°	6680.9	6743.5	6922.4	7320.5	8295.4	8896.9	7906.2	7458.5	7357.2	7517.8	7471.5
57.5°	5950.8	6036.5	6280.8	6895.2	8376.4	10056.3	9427.6	8531.6	8460.1	8413.8	8435.0
60°	4616.6	4698.8	5001.7	5802.4	7812.3	10902.7	11717.2	9854.3	9750.9	9313.3	9332.4
62.5°	3267.3	3225.8	3433.3	4019.2	6348.1	11002.1	14322.5	11623.3	11283.1	10263.1	10179.5
65°	2491.6	2482.1	2575.4	2761.8	3845.0	9813.5	15874.5	14596.7	14065.3	11380.4	11183.0
67.5°	2047.4	2030.3	2122.2	2393.6	2476.0	6331.2	15908.5	18046.3	17524.5	12771.1	12343.8
70°	1683.3	1664.3	1750.0	2100.4	2288.2	3210.9	13388.9	20066.4	20038.5	14532.0	13220.2
71°	1509.1	1495.5	1598.3	1987.5	2248.0	2676.1	11560.0	20071.9	20155.5	15128.1	13168.5
72.5°	1228.8	1233.6	1342.5	1769.0	2218.1	2363.1	8496.2	19136.3	19313.2	15696.2	12698.3
75°	816.5	820.6	963.4	1360.8	2150.8	2312.0	4669.6	16057.5	16382.8	15356.0	11587.2
77.5°	548.4	547.0	644.4	933.5	1873.8	2312.0	2737.9	12009.8	12366.9	12218.6	8933.0
80°	377.6	374.9	443.6	644.4	1418.7	2339.9	2116.8	8416.5	8524.8	6598.5	3630.6
82.5°	231.3	233.4	289.9	455.2	965.5	2105.9	1998.4	4589.3	4471.6	1850.7	907.0
85°	132.7	132.0	185.1	308.2	619.9	1777.2	1948.7	1975.2	1812.0	557.3	328.0
87.5°	47.6	51.0	99.3	170.8	355.2	1237.7	1653.4	1027.4	926.1	251.7	148.3
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: P382997  
 CATALOG NUMBER: GLEON-SA3C-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5	4514.5
2.5°	4509.1	4513.1	4508.3	4481.1	4458.0	4420.6	4399.5	4370.3	4361.4	4357.3	4368.2
5°	4526.0	4527.4	4487.3	4415.8	4335.5	4241.0	4172.9	4089.2	4049.7	4032.8	4043.7
7.5°	4541.7	4535.5	4447.8	4311.0	4162.7	3998.0	3851.8	3717.7	3639.5	3607.5	3610.2
10°	4543.7	4517.9	4377.1	4165.4	3935.4	3693.9	3469.4	3262.6	3131.9	3046.8	3072.7
12.5°	4522.7	4479.1	4272.9	3977.0	3657.8	3328.5	3025.1	2714.8	2528.4	2442.0	2444.7
15°	4506.3	4427.4	4145.0	3755.2	3326.5	2890.3	2476.0	2111.3	1912.7	1824.2	1782.6
17.5°	4492.7	4371.6	3996.7	3505.4	2935.2	2382.1	1884.1	1558.8	1450.0	1424.1	1413.2
20°	4473.7	4312.4	3831.4	3216.3	2489.6	1813.3	1375.8	1215.2	1215.9	1245.9	1249.9
22.5°	4447.1	4245.1	3655.1	2891.7	2011.3	1320.7	1078.5	1032.2	1079.1	1136.3	1146.5
25°	4407.6	4165.4	3459.2	2533.2	1533.6	1015.2	921.3	919.3	976.4	1036.3	1045.1
27.5°	4351.8	4061.4	3241.4	2148.1	1130.2	862.7	825.4	839.6	881.8	925.3	928.8
30°	4277.0	3940.2	3001.3	1741.8	885.9	768.2	764.1	777.0	802.9	833.5	836.3
32.5°	4194.7	3817.0	2744.7	1348.6	758.7	717.1	721.2	727.4	739.6	751.9	754.6
35°	4119.9	3691.2	2482.1	1024.7	698.1	683.8	681.1	679.8	681.1	677.0	677.7
37.5°	4071.5	3587.1	2208.6	815.8	663.4	654.5	646.4	636.2	624.6	617.8	619.2
40°	4053.8	3509.5	1931.7	704.9	634.8	628.7	613.1	591.3	577.7	573.6	573.6
42.5°	4101.4	3469.4	1664.3	649.1	611.0	600.8	575.0	549.8	539.6	538.9	538.2
45°	4247.1	3485.7	1409.8	618.5	589.2	569.5	535.5	514.4	507.6	508.9	508.3
47.5°	4508.3	3588.4	1192.1	598.1	567.5	541.6	503.5	486.5	478.3	478.3	479.0
50°	4952.7	3828.7	1018.6	581.1	549.1	515.7	480.4	459.3	448.4	447.7	447.7
52.5°	5599.7	4258.7	910.4	566.8	528.7	492.6	457.2	430.7	417.8	415.0	413.7
55°	6410.7	4875.1	880.4	557.3	501.5	467.5	429.4	402.8	388.5	382.4	381.7
57.5°	7317.7	5624.9	939.7	545.7	473.6	437.5	398.7	373.6	358.6	351.1	350.4
60°	8235.6	6443.4	1181.2	529.4	450.4	404.9	367.4	344.3	329.3	321.1	319.8
62.5°	9154.8	7306.1	1674.5	528.0	434.1	373.6	335.5	315.7	301.4	292.6	290.5
65°	10191.8	8250.5	2235.2	564.1	428.7	345.0	302.8	287.1	274.9	266.7	266.0
67.5°	11382.5	9316.8	2181.4	638.2	447.0	319.1	272.2	259.9	251.1	244.3	243.6
70°	11941.0	9150.0	1356.1	690.6	472.9	293.9	242.9	234.1	227.3	222.5	220.4
71°	11707.0	8688.1	1137.0	684.5	470.2	283.0	231.3	224.5	217.7	213.6	211.6
72.5°	11068.7	7923.3	948.5	636.9	439.5	263.3	216.4	209.6	203.4	198.7	197.3
75°	9932.5	7076.2	759.3	508.9	350.4	222.5	189.8	182.3	177.6	174.9	172.1
77.5°	7301.4	5049.9	587.2	402.1	257.9	181.7	161.9	156.5	151.7	147.7	145.6
80°	2797.2	1956.2	395.3	300.1	189.2	143.6	130.6	127.9	123.2	120.4	120.4
82.5°	753.2	584.5	210.9	181.7	126.6	104.8	100.0	98.7	94.6	89.1	89.8
85°	304.8	257.9	118.4	100.0	77.6	61.9	67.4	68.0	63.3	56.5	57.2
87.5°	134.0	109.5	66.0	44.2	34.0	23.8	30.6	30.6	27.9	23.1	21.1
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)