

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: P319789

Luminaire Tested: **GLEON-SA5A-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319789  
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-SA5A-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA 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: 17124 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

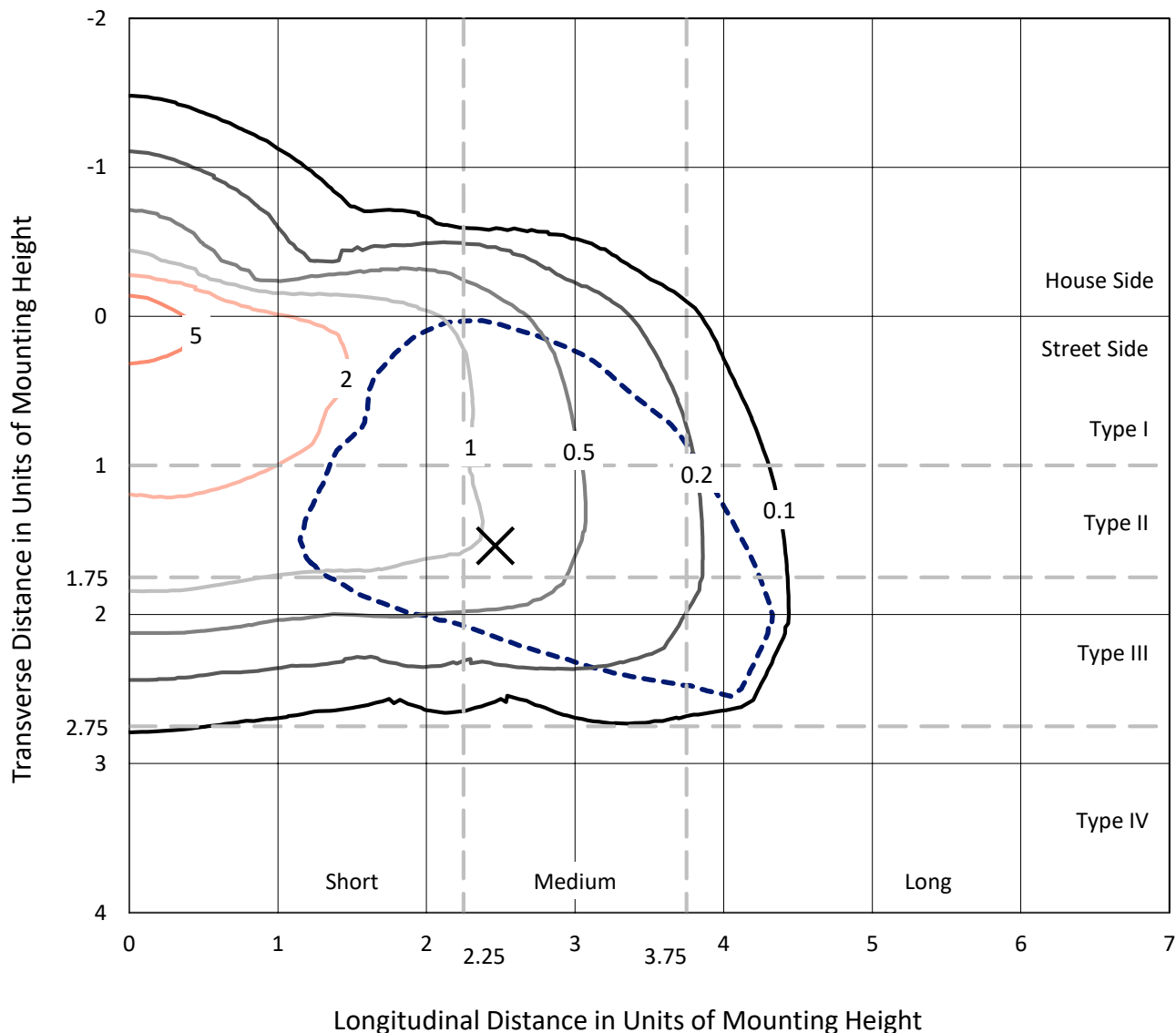
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P319789  
 CATALOG NUMBER: GLEON-SA5A-827-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

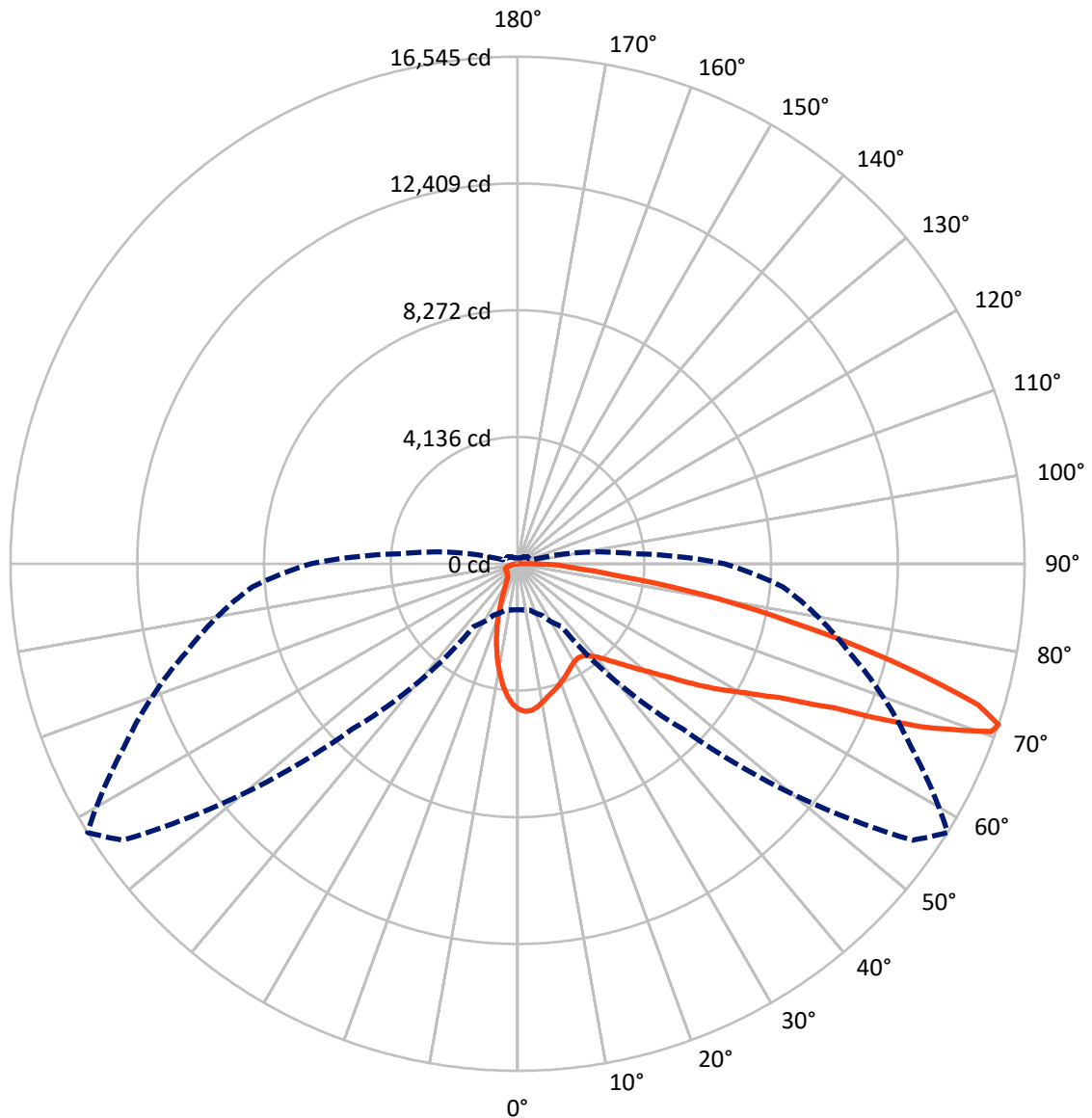
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P319789  
CATALOG NUMBER: GLEON-SA5A-827-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P319789  
 CATALOG NUMBER: GLEON-SA5A-827-U-SL3

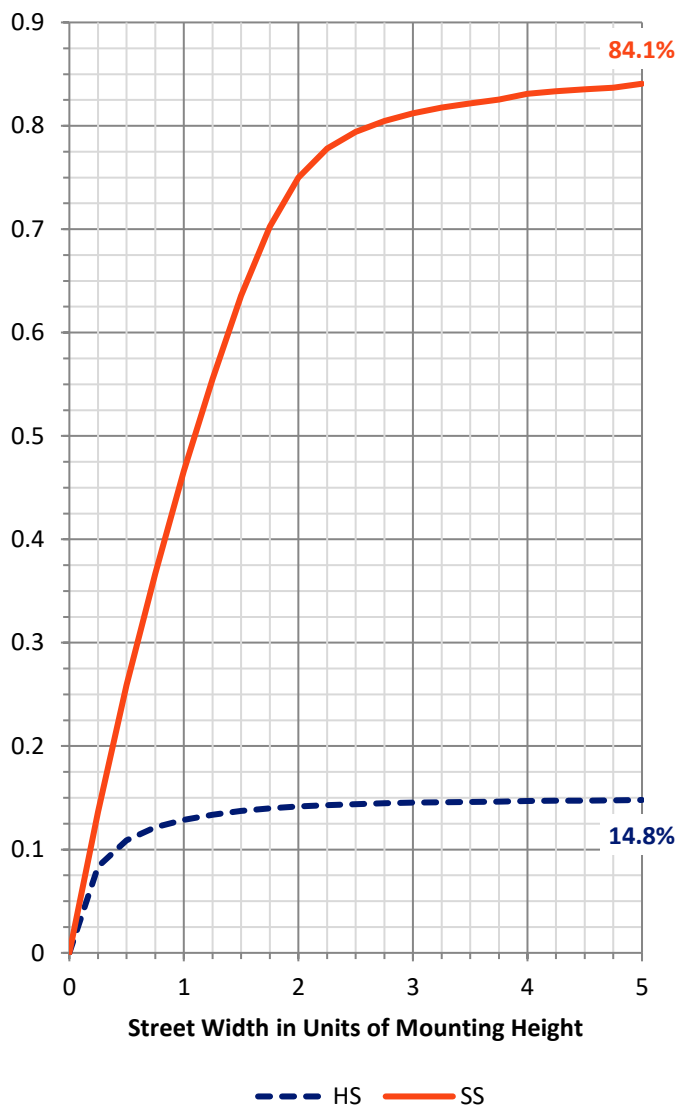
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2560.1	0.0	2560.1
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	14563.8	0.0	14563.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	17124.0	0.0	17124.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.3	2.4
10°-20°	910.1	5.3
20°-30°	1156.7	6.8
30°-40°	1473.4	8.6
40°-50°	2089.4	12.2
50°-60°	3233.4	18.9
60°-70°	4401.8	25.7
70°-80°	2936.5	17.1
80°-90°	513.4	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°	17124.0	100.0
0°-180°	17124.0	100.0

**Coefficient of Utilization**

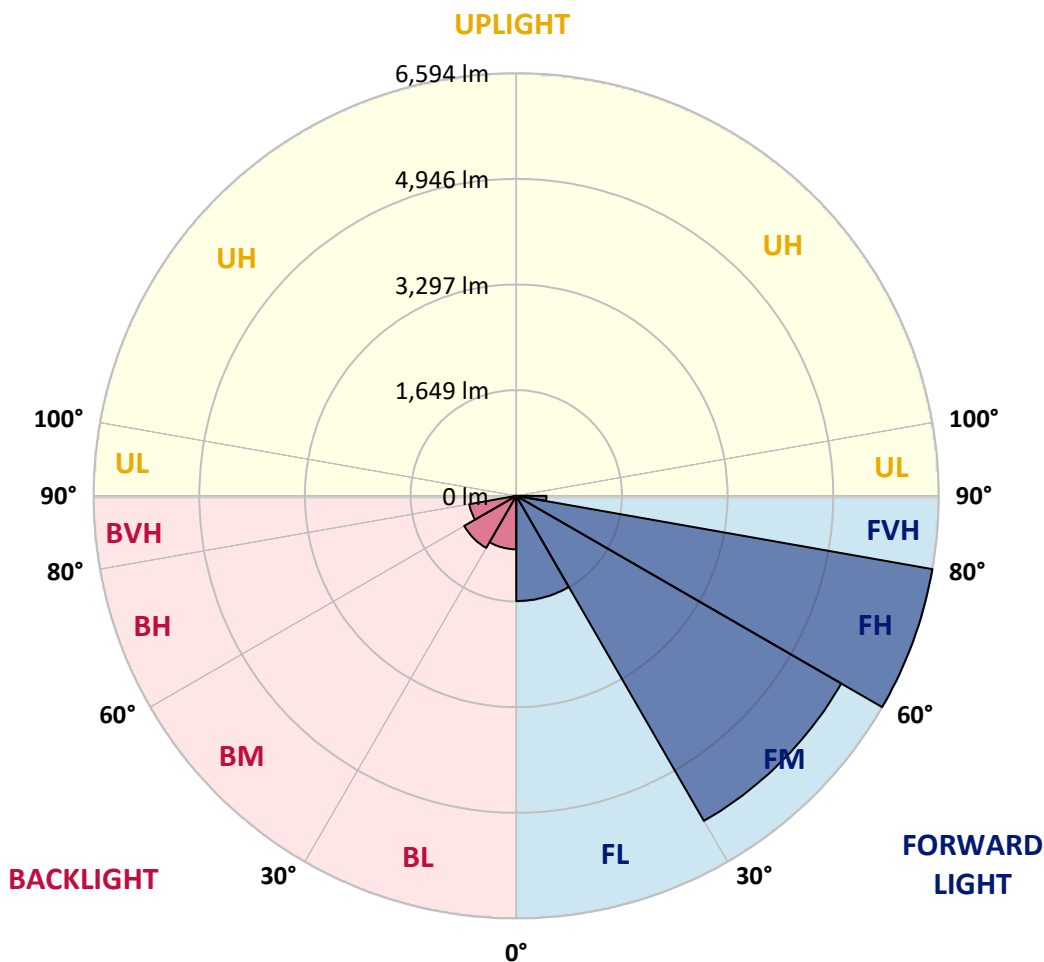


REPORT NUMBER: P319789  
 CATALOG NUMBER: GLEON-SA5A-827-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.6	9.6			
FM (30°-60°)	5857.2	34.2			
FH (60°-80°)	6594.2	38.5			G3/7500
FVH (80°-90°)	470.7	2.7			G3/500
BL (0°-30°)	834.5	4.9	B2/1000		
BM (30°-60°)	938.9	5.5	B1/1000		
BH (60°-80°)	744.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	42.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





REPORT NUMBER: P319789

CATALOG NUMBER: GLEON-SA5A-827-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5
2.5°	4870.4	4863.8	4866.2	4861.4	4850.1	4838.7	4822.0	4825.0	4801.8	4767.2	4724.2
5°	4778.5	4776.1	4794.0	4804.1	4812.5	4805.9	4801.2	4807.1	4773.1	4725.4	4650.8
7.5°	4585.8	4559.6	4582.2	4616.2	4648.5	4672.9	4705.1	4709.3	4687.8	4637.7	4539.9
10°	4312.0	4287.0	4320.4	4373.5	4437.9	4496.4	4561.4	4573.3	4577.5	4532.1	4413.4
12.5°	4028.1	4009.0	4042.4	4117.0	4223.8	4313.8	4417.6	4435.5	4472.5	4442.1	4296.5
15°	3774.0	3766.8	3807.4	3880.8	4003.7	4141.4	4291.2	4324.0	4386.6	4376.5	4205.3
17.5°	3554.5	3552.7	3583.7	3660.7	3796.7	3970.8	4165.3	4220.8	4313.8	4325.8	4130.1
20°	3391.1	3387.5	3408.9	3465.6	3605.8	3803.2	4029.3	4105.7	4239.9	4281.6	4052.6
22.5°	3303.4	3302.8	3303.4	3330.2	3444.7	3628.5	3896.9	3989.9	4167.7	4246.4	3966.7
25°	3288.5	3286.7	3273.5	3270.6	3335.6	3482.3	3765.7	3868.2	4099.1	4222.0	3884.9
27.5°	3327.2	3329.6	3312.3	3284.3	3297.4	3386.3	3651.7	3761.5	4044.2	4217.2	3828.3
30°	3407.8	3406.6	3391.7	3362.4	3336.8	3350.5	3570.6	3680.4	4007.2	4238.1	3789.5
32.5°	3496.6	3503.2	3500.2	3484.1	3445.9	3391.1	3546.1	3653.5	3996.5	4288.2	3772.8
35°	3603.4	3610.6	3632.0	3644.6	3599.8	3511.5	3598.6	3691.7	4027.5	4382.4	3799.7
37.5°	3704.8	3723.3	3783.5	3836.6	3798.5	3700.0	3738.2	3804.4	4123.5	4530.9	3871.8
40°	3821.7	3837.8	3936.2	4049.0	4043.0	3941.0	3963.1	4007.2	4292.9	4743.9	4002.5
42.5°	3936.8	3969.1	4111.6	4271.5	4317.4	4227.3	4262.5	4285.8	4531.5	5026.0	4230.3
45°	4090.1	4124.7	4322.8	4515.4	4622.8	4572.1	4628.2	4637.1	4831.6	5410.2	4561.4
47.5°	4322.2	4361.5	4592.4	4794.6	4958.6	4964.0	5056.5	5052.9	5206.2	5849.8	4978.3
50°	4683.7	4740.3	4929.4	5118.5	5317.7	5428.7	5552.1	5534.8	5655.3	6318.0	5458.5
52.5°	5157.3	5183.5	5323.7	5463.3	5710.8	5959.5	6136.7	6121.2	6164.7	6799.4	6003.7
55°	5648.2	5667.9	5725.7	5802.1	6134.9	6540.5	6915.1	6890.7	6780.3	7299.3	6542.3
57.5°	6089.6	6129.5	6169.5	6201.1	6562.0	7147.8	7711.4	7713.2	7448.4	7838.5	7098.8
60°	6158.2	6193.4	6457.6	6706.9	7292.7	7957.8	8563.8	8545.9	8139.7	8423.7	7719.2
62.5°	5443.6	5522.9	5964.3	6627.6	7996.6	9439.5	9651.2	9629.2	8966.5	9144.8	8441.5
65°	3901.1	3991.1	4523.8	5520.5	7655.4	11072.1	11613.7	11316.6	10093.8	10031.8	9287.4
67.5°	2250.6	2272.0	2502.9	3303.4	5828.9	11157.4	14607.5	14191.7	11844.5	11038.1	9701.3
70°	1664.2	1663.6	1718.5	2032.8	3154.2	9106.0	16031.3	16404.1	13687.7	11369.1	9116.2
71°	1504.9	1506.7	1568.2	1850.3	2498.1	7622.0	15728.9	16544.9	14173.2	11205.7	8692.7
72.5°	1287.2	1293.2	1378.5	1659.4	2101.4	5256.3	14426.1	15700.3	14403.5	10802.5	8030.0
75°	976.5	990.2	1108.3	1398.8	1920.7	2665.7	10587.7	12537.1	12795.3	9531.9	5966.7
77.5°	696.7	712.2	845.8	1176.3	1825.9	2009.0	7090.5	9144.8	9416.2	6108.7	2691.4
80°	440.2	458.7	559.5	935.9	1715.5	1907.6	4455.8	6146.8	5134.6	1954.7	684.8
82.5°	258.3	272.6	347.2	611.4	1401.2	1837.2	2621.6	3407.2	1998.2	590.5	311.4
85°	149.7	156.3	216.5	389.5	1017.6	1734.0	1926.1	1904.6	867.3	288.7	147.3
87.5°	69.8	77.5	128.2	203.4	564.9	1256.8	1522.2	1315.3	539.2	135.4	69.2
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: P319789  
 CATALOG NUMBER: GLEON-SA5A-827-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5	4744.5
2.5°	4703.3	4693.2	4650.8	4613.3	4573.9	4522.6	4465.9	4458.8	4424.2	4430.7	4418.8
5°	4610.3	4584.6	4482.6	4390.2	4281.0	4183.2	4077.0	4028.1	3957.7	3952.9	3935.1
7.5°	4477.3	4429.5	4271.5	4096.1	3920.7	3753.7	3588.5	3479.9	3369.0	3321.9	3317.7
10°	4327.5	4246.4	4013.8	3754.3	3501.4	3257.4	3021.2	2846.5	2689.0	2614.4	2611.4
12.5°	4185.6	4065.7	3746.6	3393.4	3047.5	2731.3	2407.4	2177.8	1980.4	1914.1	1886.1
15°	4065.1	3896.3	3486.5	3034.9	2615.0	2176.0	1807.4	1565.8	1383.3	1320.0	1308.1
17.5°	3948.2	3731.1	3219.9	2672.9	2165.3	1682.7	1313.5	1133.9	1036.7	1011.1	1010.5
20°	3831.9	3561.1	2941.3	2302.5	1730.4	1258.6	1009.9	929.3	896.5	893.5	888.8
22.5°	3700.0	3380.9	2648.4	1930.8	1350.5	989.6	858.4	826.1	822.0	832.7	832.7
25°	3576.6	3202.0	2351.4	1567.0	1050.4	825.5	766.5	759.9	771.3	790.4	792.1
27.5°	3461.4	3029.6	2061.5	1243.7	841.6	727.1	702.7	710.4	730.7	752.8	753.4
30°	3366.6	2866.7	1779.9	980.0	711.0	653.8	649.6	665.1	687.2	704.5	708.6
32.5°	3293.2	2727.8	1507.9	788.0	625.7	598.9	602.5	615.6	629.3	638.8	645.4
35°	3259.2	2608.5	1256.8	664.5	571.4	556.5	561.3	568.5	574.4	581.6	586.9
37.5°	3265.2	2516.0	1032.5	587.5	535.1	527.3	527.3	527.3	527.3	530.9	531.5
40°	3320.7	2462.9	850.0	538.6	510.6	502.2	495.7	489.7	484.9	487.3	486.1
42.5°	3462.6	2458.1	716.4	507.6	490.9	477.2	464.1	455.7	449.8	452.1	453.3
45°	3703.6	2517.8	626.3	485.5	472.4	451.5	434.8	425.9	421.7	429.5	430.7
47.5°	4015.6	2647.8	571.4	469.4	455.1	427.7	409.8	401.4	402.6	414.0	416.9
50°	4417.6	2859.0	545.2	459.3	443.2	407.4	388.9	381.8	385.3	401.4	405.0
52.5°	4859.0	3163.2	548.2	456.3	435.4	392.5	372.8	364.5	370.4	385.3	388.3
55°	5368.4	3528.8	597.7	460.5	424.1	382.9	359.7	345.4	350.1	363.9	366.2
57.5°	5934.5	3947.6	697.3	459.3	409.8	374.0	346.0	324.5	328.1	336.4	338.8
60°	6523.8	4453.4	851.8	462.9	403.2	363.3	327.5	300.6	299.4	306.6	307.8
62.5°	7231.3	5038.6	1028.4	465.3	407.4	349.5	303.0	276.8	273.2	275.0	276.2
65°	7960.2	5462.1	962.1	455.7	420.5	338.2	281.5	253.5	246.9	245.8	246.4
67.5°	7982.8	5008.1	674.6	436.6	425.9	332.2	265.4	233.8	223.1	218.9	218.3
70°	7159.1	4068.7	525.5	416.4	404.4	322.7	250.5	217.7	201.6	195.1	194.5
71°	6757.1	3745.4	498.1	406.2	388.3	313.2	244.0	210.6	193.9	186.7	185.5
72.5°	6126.6	3357.7	464.7	390.1	357.3	288.7	231.4	200.4	183.1	174.8	173.0
75°	4396.7	2195.7	399.1	347.8	295.9	230.2	202.8	180.1	165.2	155.1	153.9
77.5°	1694.0	873.9	301.8	289.3	226.7	180.1	167.0	155.7	144.9	134.8	134.2
80°	523.7	390.7	220.1	217.7	164.0	134.2	130.0	127.1	122.9	112.1	109.8
82.5°	279.8	224.3	151.5	140.8	107.4	89.5	94.2	95.4	96.0	84.7	83.5
85°	133.6	118.7	85.3	79.9	62.6	50.1	57.9	62.6	63.2	51.9	48.3
87.5°	63.8	62.0	40.0	30.4	23.3	16.7	20.3	25.1	27.4	19.7	17.3
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)