

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: P324609

Luminaire Tested: **GLEON-SA5C-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19265 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 279  
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

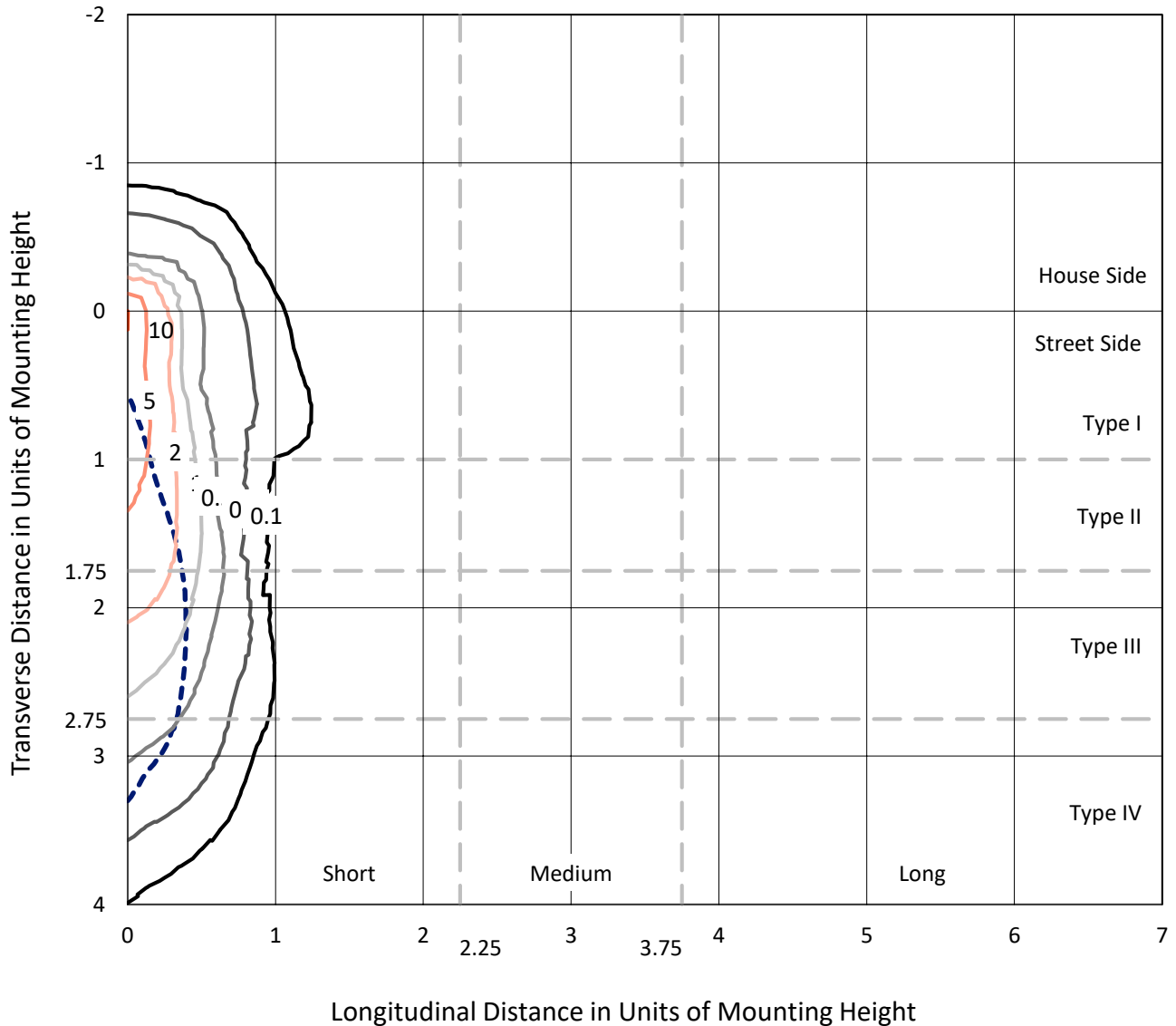




REPORT NUMBER: P324609  
 CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

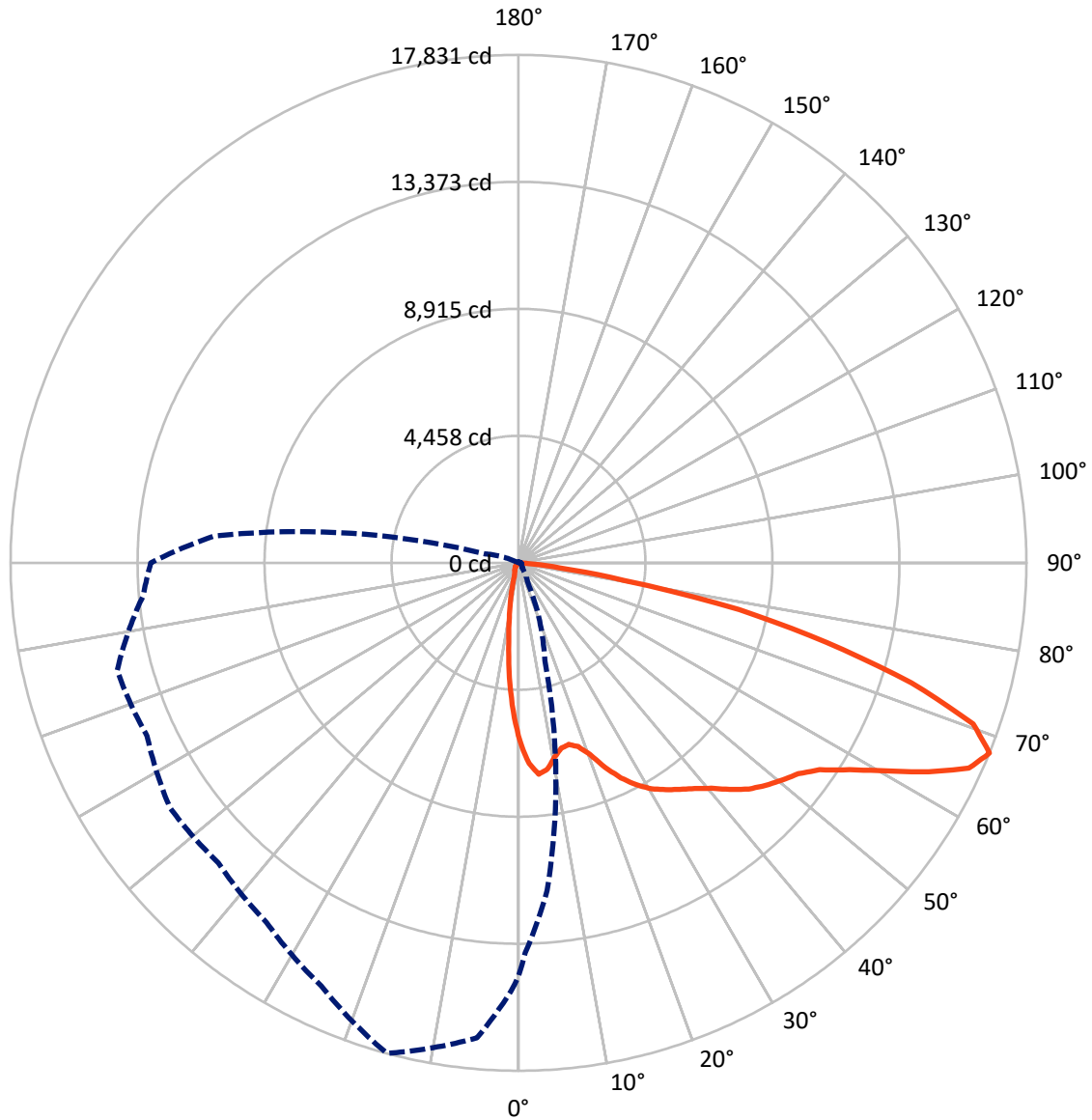
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P324609  
CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P324609  
 CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

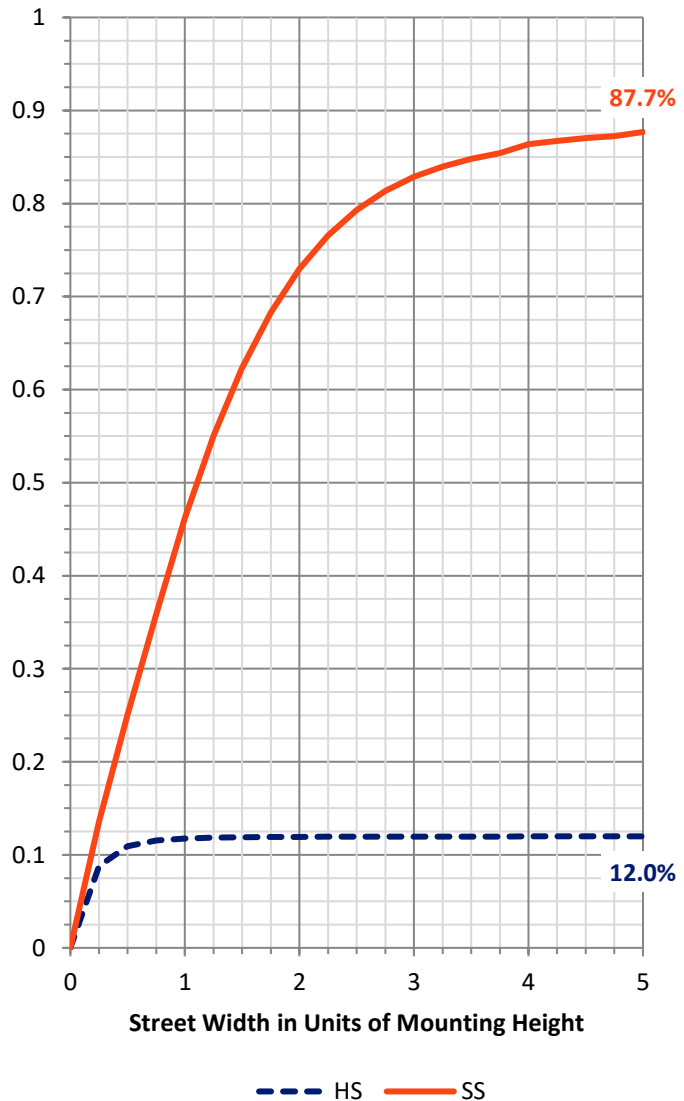
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2331.7	0.0	2331.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	16933.3	0.0	16933.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	19265.0	0.0	19265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.6	2.5
10°-20°	958.7	5.0
20°-30°	1361.4	7.1
30°-40°	2010.8	10.4
40°-50°	2900.0	15.1
50°-60°	4071.0	21.1
60°-70°	4745.6	24.6
70°-80°	2426.0	12.6
80°-90°	309.8	1.6
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°	19265.0	100.0
0°-180°	19265.0	100.0

**Coefficient of Utilization**

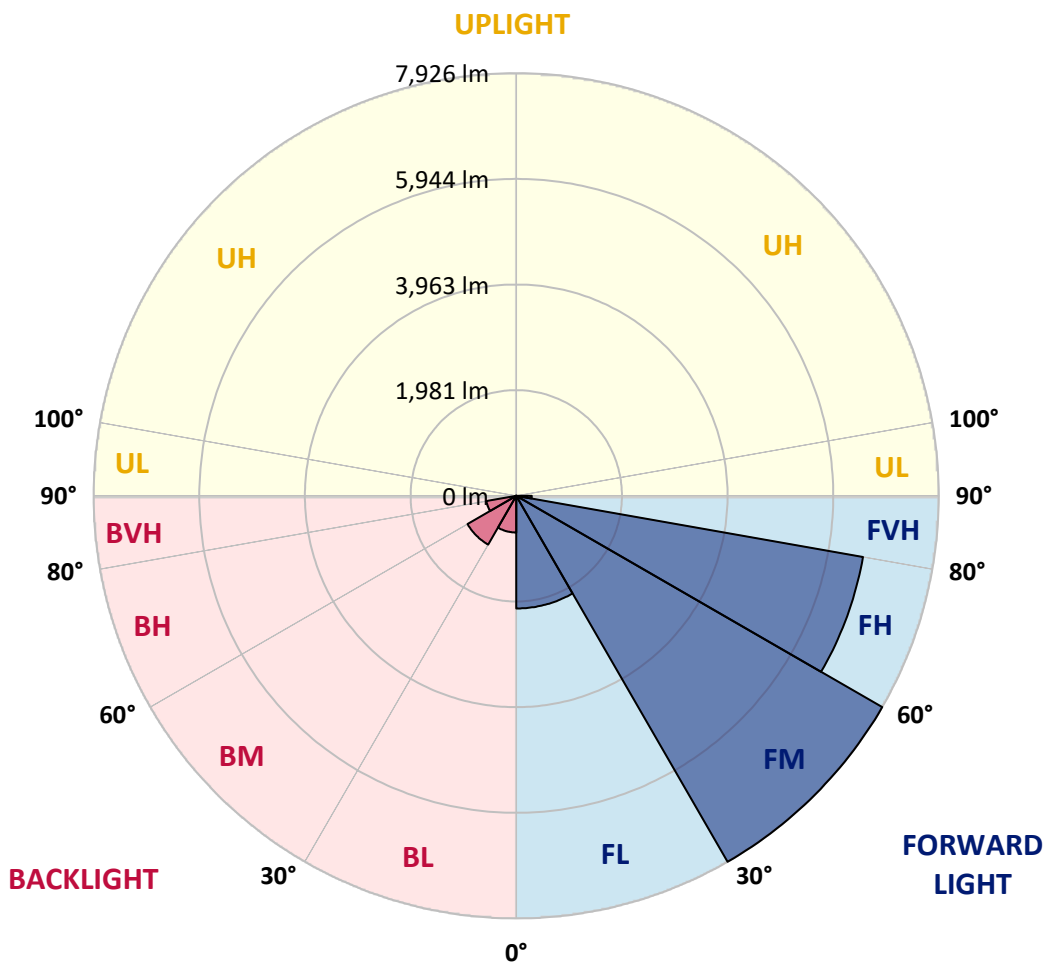


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 CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.0	11.0			
FM (30°-60°)	7925.9	41.1			
FH (60°-80°)	6603.4	34.3			G3/7500
FVH (80°-90°)	291.0	1.5			G3/500
BL (0°-30°)	688.7	3.6	B2/1000		
BM (30°-60°)	1055.9	5.5	B2/2500		
BH (60°-80°)	568.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	18.8	0.1			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 IV Medium





REPORT NUMBER: P324609

CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5
2.5°	6871.5	6818.6	6760.2	6569.4	6392.4	6189.7	6024.6	5909.6	5765.4	5578.3	5530.8
5°	6822.2	6765.6	6582.2	6157.8	5786.3	5424.9	5076.3	4871.8	4618.1	4360.8	4296.9
7.5°	6326.6	6267.3	6002.6	5421.3	4921.1	4399.1	3946.4	3666.2	3379.6	3144.2	3019.1
10°	5811.0	5746.2	5448.7	4743.2	4127.1	3655.3	3323.0	3055.6	2784.6	2532.7	2331.9
12.5°	5456.0	5371.1	5048.0	4248.5	3711.8	3391.5	3081.2	2760.8	2393.9	2123.8	1902.9
15°	5307.2	5210.4	4869.1	4057.7	3564.9	3188.9	2784.6	2391.2	1961.3	1651.9	1449.3
17.5°	5422.2	5296.2	4930.3	4045.0	3380.5	2868.5	2357.4	1895.6	1429.2	1116.2	972.0
20°	5812.8	5647.6	5183.1	4041.3	3156.9	2487.9	1839.9	1317.9	941.9	757.5	681.8
22.5°	6428.0	6209.8	5546.3	4070.5	2926.0	2088.2	1328.9	895.3	707.3	611.5	566.8
25°	7170.9	6918.1	6069.3	4173.7	2723.4	1699.4	965.6	707.3	596.9	526.6	489.2
27.5°	7877.3	7671.9	6730.0	4322.4	2566.4	1385.4	784.0	599.6	510.2	463.6	433.5
30°	8582.8	8324.5	7408.2	4499.5	2377.5	1172.8	689.1	546.7	457.2	408.0	388.8
32.5°	9095.7	8881.2	7939.3	4627.3	2175.8	1034.1	616.1	500.1	427.1	376.9	348.6
35°	9699.0	9456.2	8394.8	4655.5	2046.2	946.4	554.0	449.9	370.5	325.8	295.7
37.5°	10350.6	10048.5	8920.5	4593.5	1944.9	903.5	507.4	427.1	345.9	300.3	268.3
40°	11071.6	10730.3	9425.2	4504.0	1845.4	888.9	471.9	409.8	326.7	280.2	247.3
42.5°	11831.0	11428.5	9862.3	4410.0	1782.4	838.7	468.2	392.4	312.1	261.9	229.1
45°	12468.9	12061.0	10311.4	4379.0	1737.7	784.0	483.7	380.6	302.1	247.3	215.4
47.5°	12977.3	12591.2	10771.4	4448.4	1712.2	733.8	440.8	396.1	296.6	234.6	203.5
50°	13584.2	13147.1	11419.4	4655.5	1674.8	683.6	398.8	453.6	296.6	226.3	193.5
52.5°	14345.4	13912.8	12142.2	4976.8	1599.9	614.2	358.7	454.5	299.4	215.4	180.7
55°	15302.8	14988.8	13174.4	5329.1	1480.4	512.0	310.3	390.6	288.4	195.3	168.8
57.5°	16220.9	15964.5	14115.4	5570.0	1320.6	399.8	270.2	314.9	263.8	171.6	150.6
59°	16471.9	16191.7	14460.4	5581.0	1201.1	348.6	250.1	260.1	258.3	160.6	139.6
60°	16471.9	16174.4	14559.9	5522.6	1114.4	320.3	237.3	231.8	269.2	153.3	133.3
62.5°	16173.5	15755.5	14236.8	5127.4	909.0	272.9	207.2	191.7	241.9	137.8	117.7
65°	15552.9	14944.1	13136.1	4412.8	810.5	250.1	178.9	157.0	167.9	121.4	103.1
67.5°	14517.9	13692.8	11549.0	3564.9	771.2	243.7	154.2	133.3	126.9	104.0	90.4
70°	12695.3	11779.9	9622.3	2802.8	737.4	240.9	129.6	112.3	102.2	87.6	76.7
72.5°	9239.9	8285.2	6831.4	2191.3	717.4	246.4	104.0	94.0	84.0	68.5	59.3
75°	5285.3	4660.1	3839.6	1447.5	611.5	235.5	80.3	78.5	60.2	49.3	41.1
77.5°	2730.7	2647.7	2300.8	555.8	293.0	103.1	52.9	45.6	35.6	30.1	24.6
80°	1178.3	1165.5	1008.5	160.6	77.6	57.5	30.1	19.2	16.4	12.8	10.0
82.5°	407.1	407.1	358.7	53.8	34.7	28.3	3.7	0.0	0.0	0.0	0.0
85°	82.1	92.2	64.8	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



REPORT NUMBER: P324609

CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5
2.5°	5473.3	5362.9	5355.6	5286.2	5199.5	5160.3	5137.4	5177.6	5226.9	5232.4	5306.3
5°	4248.5	4132.6	4181.0	4057.7	4082.4	4057.7	4017.6	4024.9	4046.8	3978.3	4063.2
7.5°	2983.5	2895.9	2951.6	2918.7	2962.5	2979.9	2955.2	2918.7	2811.0	2798.3	2872.2
10°	2248.8	2149.3	2090.0	2028.0	2041.6	2069.9	2060.8	2034.3	1965.9	1969.5	2040.7
12.5°	1807.1	1695.7	1578.0	1425.6	1388.2	1409.2	1388.2	1372.7	1306.9	1312.4	1375.4
15°	1370.8	1279.6	1156.4	1034.1	967.4	973.8	915.4	874.3	833.3	784.0	822.3
17.5°	925.5	869.8	833.3	796.8	717.4	699.1	625.2	545.8	514.7	491.9	508.4
20°	655.3	625.2	610.6	608.8	563.1	540.3	468.2	418.9	403.4	398.8	408.9
22.5°	547.6	525.7	504.7	492.8	470.0	443.6	388.8	364.2	353.2	347.7	355.0
25°	476.4	460.0	438.1	418.0	408.9	380.6	341.3	323.1	315.8	310.3	314.0
27.5°	423.5	408.9	383.3	370.5	363.2	338.6	304.8	290.2	283.8	282.0	281.1
30°	381.5	367.8	344.1	329.5	316.7	294.8	274.7	260.1	253.7	251.9	250.1
32.5°	339.5	328.6	313.0	298.4	284.8	264.7	247.3	235.5	225.4	223.6	222.7
35°	286.6	275.6	267.4	266.5	253.7	234.6	221.8	206.3	198.0	195.3	196.2
37.5°	254.6	240.0	221.8	228.2	224.5	210.8	193.5	178.0	169.8	167.9	167.9
40°	234.6	219.0	198.0	187.1	198.0	195.3	167.9	152.4	144.2	143.3	141.5
42.5°	215.4	199.9	176.1	157.9	163.4	171.6	145.1	130.5	122.3	120.5	117.7
45°	201.7	185.3	158.8	137.8	126.9	144.2	124.1	105.9	101.3	97.7	95.8
47.5°	188.9	173.4	143.3	119.6	101.3	104.0	99.5	86.7	81.2	77.6	76.7
50°	178.0	161.5	129.6	102.2	84.0	76.7	80.3	68.5	63.9	60.2	58.4
52.5°	165.2	149.7	115.0	88.5	70.3	60.2	61.1	53.8	49.3	46.5	45.6
55°	155.2	139.6	103.1	77.6	62.1	49.3	43.8	42.0	39.2	37.4	36.5
57.5°	141.5	126.9	91.3	65.7	52.9	40.2	33.8	33.8	32.9	31.0	30.1
59°	133.3	120.5	84.0	59.3	48.4	34.7	30.1	31.0	30.1	28.3	27.4
60°	126.9	115.0	78.5	54.8	45.6	31.9	27.4	29.2	28.3	26.5	25.6
62.5°	112.3	104.0	67.5	45.6	40.2	25.6	22.8	24.6	24.6	23.7	22.8
65°	98.6	89.4	57.5	38.3	37.4	21.9	18.3	21.9	22.8	21.0	19.2
67.5°	85.8	76.7	50.2	31.0	34.7	17.3	13.7	18.3	24.6	19.2	17.3
70°	73.0	63.9	39.2	24.6	36.5	11.9	11.0	16.4	29.2	21.0	16.4
72.5°	56.6	49.3	27.4	18.3	39.2	8.2	8.2	13.7	32.9	22.8	15.5
75°	39.2	31.9	16.4	11.0	31.9	5.5	5.5	12.8	31.0	21.0	14.6
77.5°	22.8	17.3	5.5	0.9	16.4	0.0	0.9	9.1	21.9	12.8	6.4
80°	8.2	3.7	0.0	0.0	10.0	0.0	0.0	0.0	1.8	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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





REPORT NUMBER: P324609  
 CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5
2.5°	5325.4	5448.7	5559.1	5726.1	5924.2	6152.3	6348.6	6559.4	6757.4	6839.6	6896.2
5°	4080.6	4233.0	4410.9	4656.5	4983.2	5385.7	5762.6	6188.8	6647.0	6876.1	7091.5
7.5°	2885.0	3040.1	3261.0	3522.0	3917.2	4396.3	4889.2	5477.9	6098.5	6460.8	6817.7
10°	2074.5	2265.3	2471.5	2828.4	3229.9	3684.5	4191.9	4849.0	5540.8	5942.4	6372.3
12.5°	1411.9	1629.1	1941.3	2341.0	2812.9	3258.2	3699.1	4326.1	5129.2	5527.1	5988.0
15°	847.0	967.4	1297.8	1760.5	2339.2	2894.1	3376.9	4005.7	4861.8	5349.2	5828.3
17.5°	522.0	577.7	757.5	1137.2	1745.0	2446.9	3108.6	3897.1	4900.1	5493.4	6006.3
20°	416.2	438.1	495.6	671.7	1156.4	1954.0	2806.5	3875.2	5213.2	5943.3	6493.7
22.5°	361.4	382.4	420.7	488.3	727.4	1463.0	2519.9	3895.3	5662.2	6617.8	7260.3
25°	318.5	336.8	373.3	429.0	533.0	1030.4	2213.2	3984.7	6247.2	7454.7	8137.4
27.5°	284.8	300.3	334.0	385.1	457.2	719.2	1865.5	4093.3	6940.9	8310.8	8984.4
30°	253.7	267.4	297.5	345.0	397.0	553.1	1484.0	4167.3	7635.4	8984.4	9589.5
32.5°	227.3	237.3	264.7	304.8	345.0	440.8	1128.1	4155.4	8151.1	9544.7	10024.8
35°	199.9	209.9	233.6	268.3	300.3	364.2	887.1	3933.6	8600.1	10126.1	10523.1
37.5°	169.8	182.5	205.4	236.4	258.3	320.3	717.4	3666.2	9055.5	10790.5	11078.9
40°	144.2	157.0	177.1	210.8	224.5	303.9	551.3	3340.4	9567.5	11533.4	11688.6
42.5°	119.6	131.4	152.4	181.6	211.7	261.9	408.0	2968.0	10059.5	12168.7	12244.4
45°	96.7	108.6	130.5	159.7	226.3	217.2	315.8	2569.2	10456.5	12697.1	12721.7
47.5°	76.7	87.6	110.4	150.6	210.8	173.4	225.4	2256.1	10789.6	13109.6	13044.8
50°	59.3	68.5	92.2	172.5	184.4	143.3	170.7	2152.1	11088.1	13365.2	13197.2
52.5°	46.5	54.8	75.8	161.5	143.3	118.6	143.3	2249.7	11496.9	13576.9	13283.0
55°	37.4	45.6	59.3	92.2	97.7	100.4	122.3	2341.0	12202.4	14073.4	13789.6
57.5°	31.0	39.2	48.4	64.8	73.9	84.9	108.6	2351.0	13033.9	14898.5	14630.1
59°	28.3	35.6	43.8	57.5	64.8	77.6	102.2	2296.3	13326.8	15198.7	15064.6
60°	26.5	33.8	41.1	52.9	60.2	73.0	98.6	2244.3	13339.6	15187.8	15249.8
62.5°	22.8	30.1	36.5	44.7	51.1	62.1	88.5	2051.7	12799.3	14690.4	15138.5
65°	20.1	26.5	32.9	38.3	43.8	55.7	80.3	1700.3	11876.6	13888.1	14376.4
67.5°	18.3	22.8	30.1	33.8	39.2	49.3	71.2	1212.0	10723.9	12907.0	13223.7
70°	16.4	21.9	27.4	31.0	35.6	42.9	61.1	696.4	9055.5	11470.5	11695.9
72.5°	15.5	21.0	24.6	29.2	31.9	38.3	55.7	327.6	6630.6	9188.8	9777.5
75°	13.7	19.2	22.8	27.4	30.1	34.7	47.5	157.0	4410.0	6649.7	7318.7
77.5°	8.2	15.5	21.0	24.6	26.5	30.1	39.2	90.4	2814.7	4602.6	5421.3
80°	0.0	5.5	15.5	21.0	22.8	25.6	30.1	71.2	1505.9	2629.4	3156.0
82.5°	0.0	0.0	11.0	16.4	15.5	17.3	22.8	44.7	679.0	1718.6	1936.7
85°	0.0	0.0	3.7	12.8	11.0	8.2	15.5	15.5	148.8	869.8	1085.2
87.5°	0.0	0.0	0.0	0.9	5.5	3.7	6.4	1.8	0.9	64.8	262.8
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: P324609

CATALOG NUMBER: GLEON-SA5C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5	6275.5
2.5°	7094.2	7161.7	7275.8	7329.7	7303.2	7190.9	7056.8	6919.9	6839.6	6871.5
5°	7530.5	7878.2	8079.0	8145.6	8034.3	7782.4	7452.9	7018.5	6864.2	6822.2
7.5°	7530.5	8184.8	8599.2	8672.2	8424.0	7930.2	7312.3	6634.2	6408.8	6326.6
10°	7265.8	8156.6	8734.3	8850.2	8503.4	7765.0	6937.2	6163.3	5895.9	5811.0
12.5°	6967.3	7926.6	8535.3	8695.0	8410.3	7600.7	6677.1	5844.8	5529.9	5456.0
15°	6783.9	7643.6	8147.4	8263.3	8142.9	7504.9	6615.1	5748.9	5378.4	5307.2
17.5°	6849.6	7424.6	7606.2	7673.8	7755.0	7471.1	6783.9	5958.8	5489.7	5422.2
20°	7096.9	7193.7	7099.7	7184.6	7403.6	7504.0	7186.4	6466.3	5903.2	5812.8
22.5°	7516.8	7074.1	6810.4	6844.1	7110.6	7612.6	7801.5	7190.9	6541.1	6428.0
25°	8006.0	7170.9	6649.7	6619.6	6893.4	7755.9	8363.7	7979.5	7295.9	7170.9
27.5°	8621.1	7388.1	6616.9	6586.8	6817.7	7890.1	8831.0	8758.9	8090.8	7877.3
30°	9095.7	7601.7	6714.5	6645.2	6893.4	7983.1	9206.1	9420.6	8724.2	8582.8
32.5°	9436.1	7853.5	6873.3	6772.9	7107.0	8143.8	9495.4	10026.6	9310.2	9095.7
35°	9695.3	8127.4	7129.8	6964.6	7400.9	8387.5	9766.5	10671.9	9933.5	9699.0
37.5°	9938.1	8511.6	7530.5	7333.3	7861.8	8779.9	10053.1	11403.8	10630.8	10350.6
40°	10276.7	8946.9	8148.3	7973.1	8636.6	9314.7	10410.9	12166.8	11423.9	11071.6
42.5°	10615.3	9414.2	8780.8	8828.3	9603.1	9964.6	10872.7	12973.6	12207.0	11831.0
45°	10924.7	9896.1	9681.6	9900.7	10500.3	10677.4	11331.7	13440.0	12832.2	12468.9
47.5°	11200.3	10498.5	10577.0	11160.2	11520.7	11322.6	11674.9	13842.5	13297.6	12977.3
50°	11520.7	11277.9	11757.1	12582.1	12695.3	11906.7	11987.0	14318.9	13841.6	13584.2
52.5°	11871.1	12099.3	13064.0	13791.4	13754.9	12541.0	12301.0	14852.8	14587.2	14345.4
55°	12269.1	12762.8	14214.9	14923.1	14892.1	13249.3	12821.2	15512.7	15521.8	15302.8
57.5°	12859.6	13334.1	14996.1	15838.5	15890.5	14067.0	13702.9	16252.0	16367.0	16220.9
59°	13283.0	13704.7	15305.5	16220.9	16432.7	14699.5	14347.2	16680.9	16605.2	16471.9
60°	13597.0	13940.2	15458.9	16420.8	16747.5	15128.5	14822.7	16932.8	16633.5	16471.9
62.5°	14373.7	14453.1	15735.4	16647.2	17109.9	16081.3	16160.7	17361.8	16437.2	16173.5
65°	14736.0	14777.1	15731.7	16241.9	16759.4	16823.3	17374.6	17374.6	15958.1	15552.9
67.5°	14584.5	14386.5	14951.4	14898.5	15415.0	16382.5	17830.9	16737.5	15041.8	14517.9
70°	13352.4	12590.3	12339.3	12362.2	12757.3	14249.6	16927.3	14862.9	13307.7	12695.3
72.5°	11110.0	9281.9	8662.2	9369.5	9472.6	10951.2	14425.7	11193.0	9814.0	9239.9
75°	8936.0	6543.0	5535.4	6281.9	6457.2	8014.2	11159.3	6971.0	5732.5	5285.3
77.5°	6419.7	4696.6	3972.0	3919.9	4146.3	5082.7	7918.3	3508.3	2926.0	2730.7
80°	3647.0	3091.2	3328.5	3140.5	3254.6	3177.9	3762.0	1538.8	1260.4	1178.3
82.5°	2201.4	1827.2	1978.7	1647.4	2084.5	1815.3	1449.3	492.8	428.0	407.1
85°	1432.0	998.5	520.2	348.6	718.3	1160.0	324.0	134.2	103.1	82.1
87.5°	493.8	254.6	25.6	11.0	76.7	216.3	11.9	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

(END OF REPORT)