

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: P324594

Luminaire Tested: **GLEON-SA0A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324594
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-SA0A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA 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: 25136 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

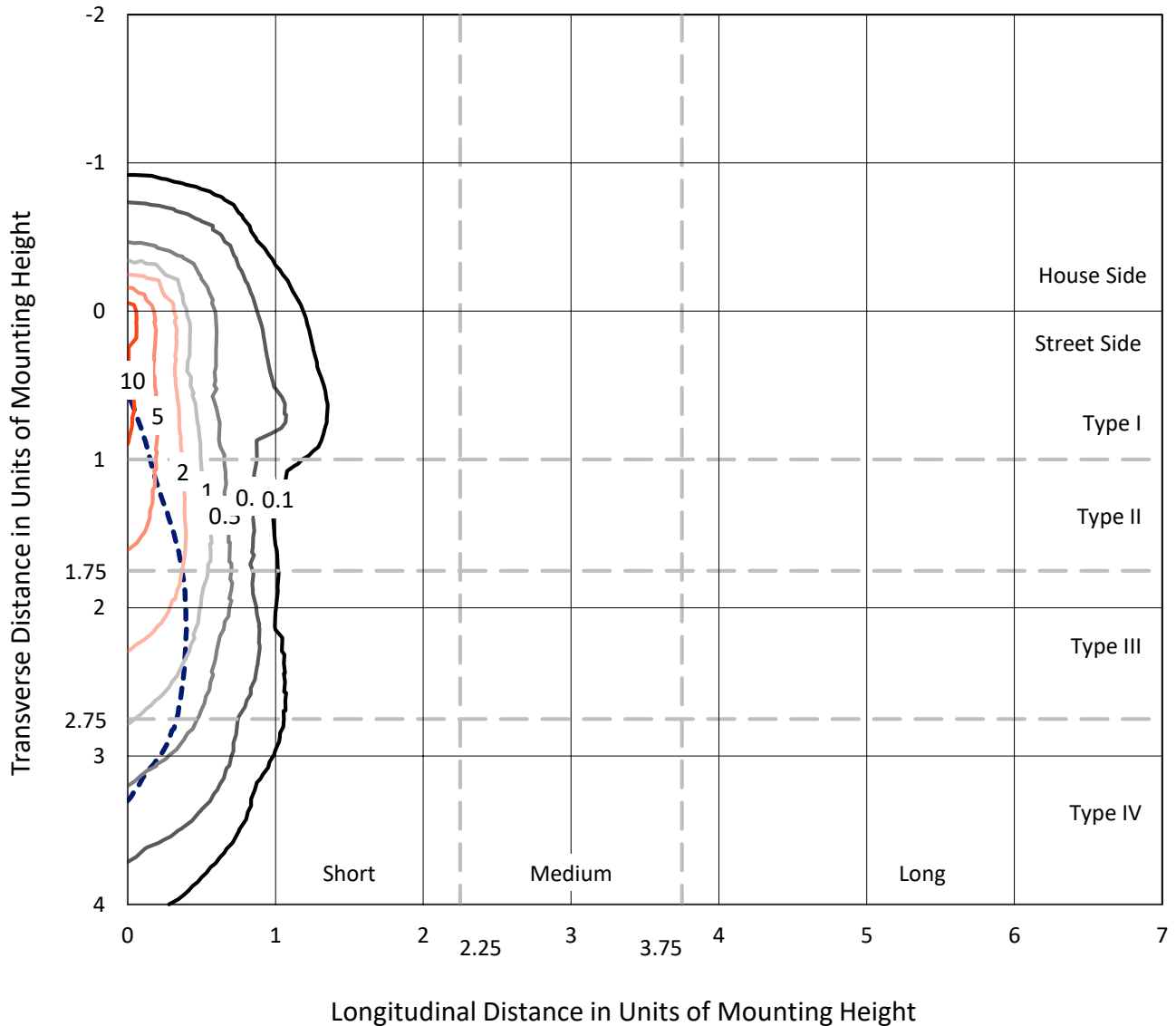
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

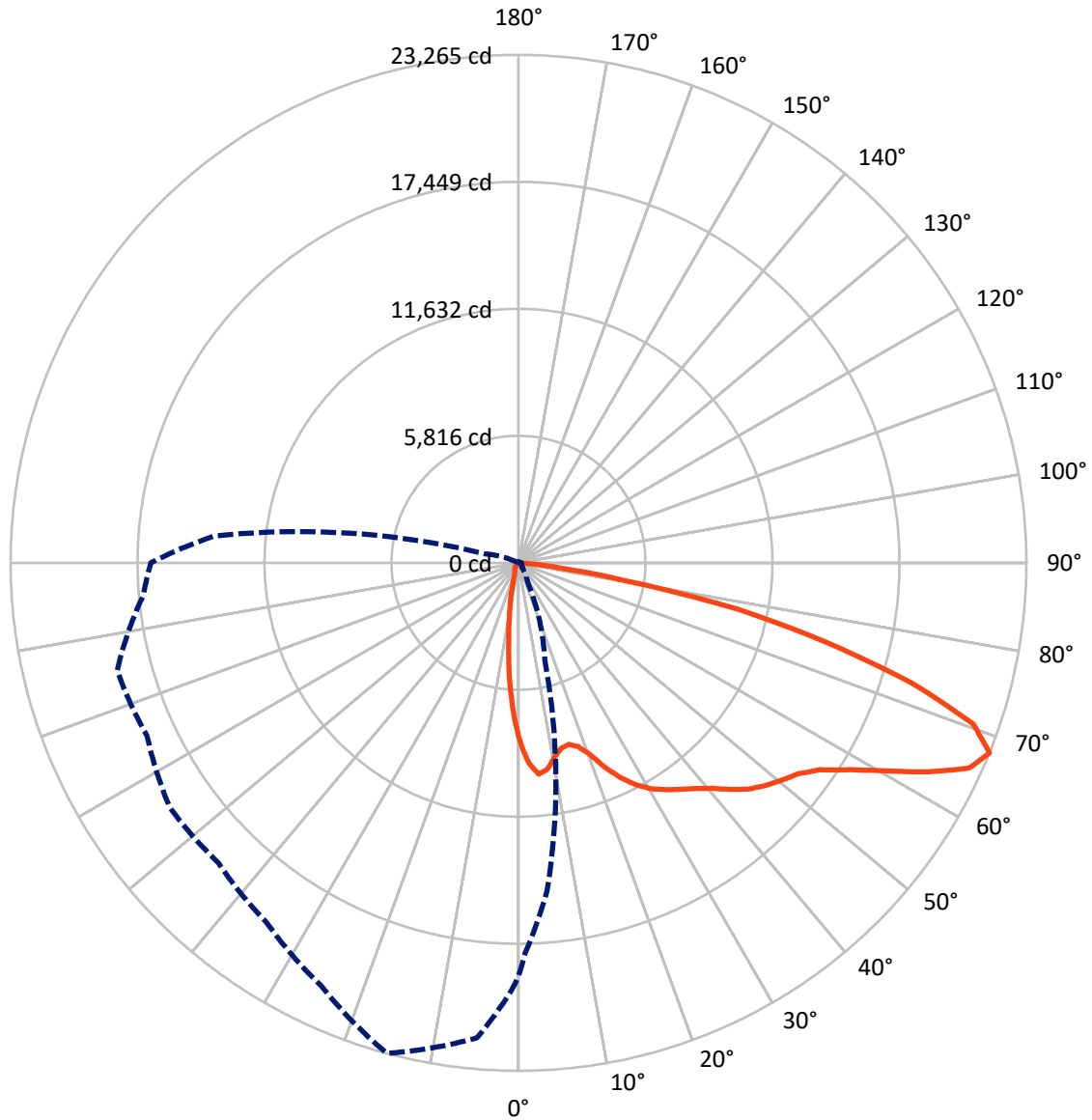
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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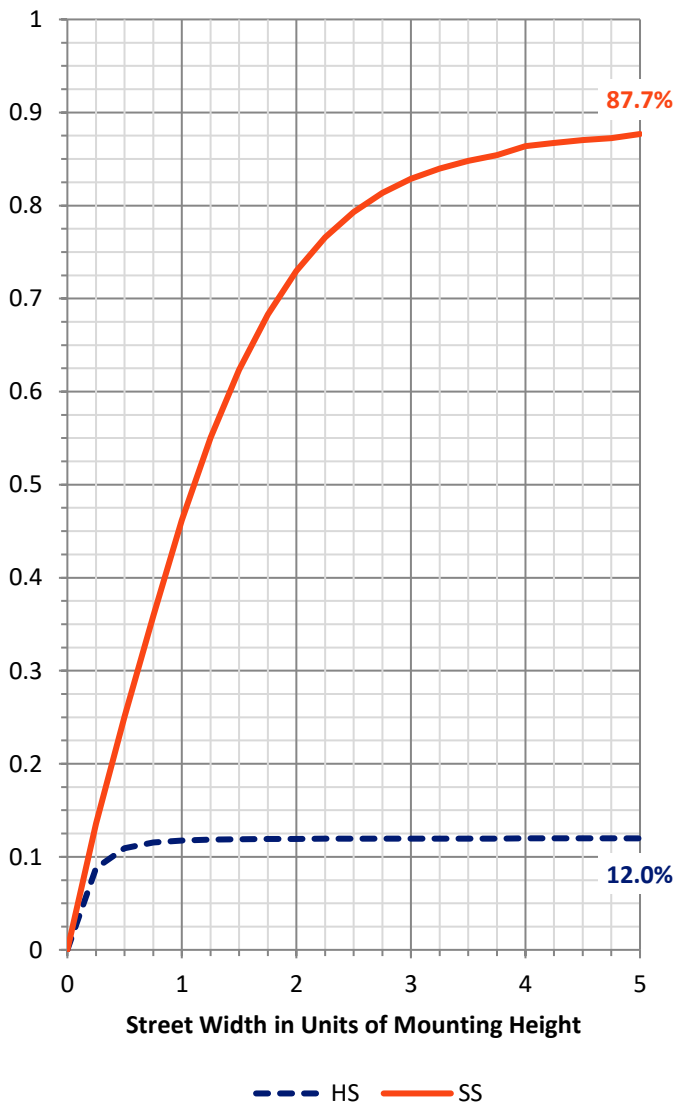
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3042.3	0.0	3042.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22093.7	0.0	22093.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	25136.0	0.0	25136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.4	2.5
10°-20°	1250.9	5.0
20°-30°	1776.2	7.1
30°-40°	2623.6	10.4
40°-50°	3783.8	15.1
50°-60°	5311.6	21.1
60°-70°	6191.8	24.6
70°-80°	3165.4	12.6
80°-90°	404.3	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°	25136.0	100.0
0°-180°	25136.0	100.0

Coefficient of Utilization

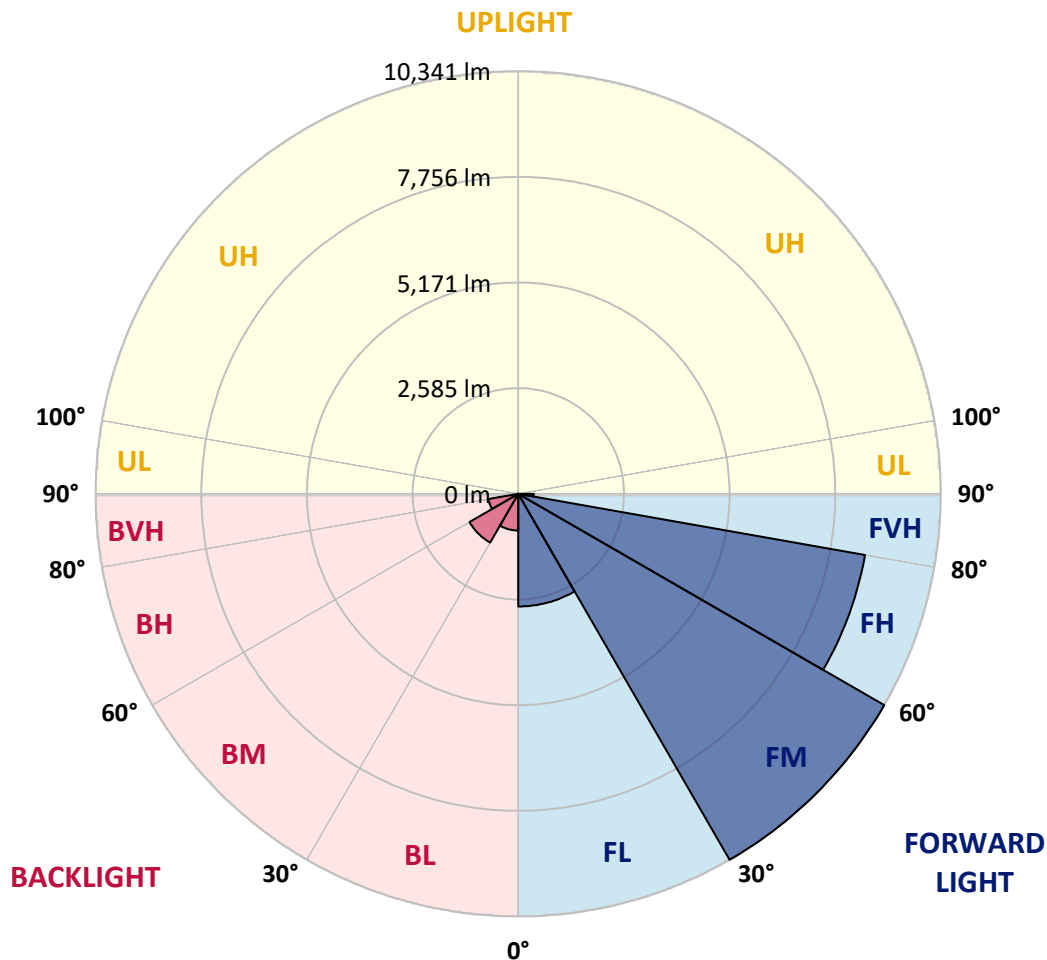


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2756.9	11.0			
FM (30°-60°)	10341.4	41.1			
FH (60°-80°)	8615.7	34.3			G4/12000
FVH (80°-90°)	379.7	1.5			G3/500
BL (0°-30°)	898.6	3.6	B2/1000		
BM (30°-60°)	1377.6	5.5	B2/2500		
BH (60°-80°)	741.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	24.6	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0
2.5°	8965.6	8896.5	8820.3	8571.4	8340.4	8076.1	7860.5	7710.5	7522.3	7278.2	7216.3
5°	8901.3	8827.5	8588.1	8034.4	7549.7	7078.2	6623.3	6356.5	6025.5	5689.7	5606.3
7.5°	8254.7	8177.3	7832.0	7073.4	6420.8	5739.7	5149.1	4783.5	4409.6	4102.3	3939.2
10°	7581.9	7497.3	7109.1	6188.6	5384.8	4769.2	4335.7	3986.8	3633.2	3304.5	3042.5
12.5°	7118.7	7007.9	6586.4	5543.2	4843.0	4425.0	4020.2	3602.2	3123.5	2771.0	2482.8
15°	6924.6	6798.3	6353.0	5294.3	4651.3	4160.7	3633.2	3119.9	2559.0	2155.4	1891.0
17.5°	7074.6	6910.3	6432.8	5277.7	4410.8	3742.7	3075.9	2473.3	1864.8	1456.4	1268.2
20°	7584.3	7368.7	6762.6	5272.9	4119.0	3246.1	2400.7	1719.5	1228.9	988.4	889.5
22.5°	8386.9	8102.3	7236.5	5311.0	3817.7	2724.6	1733.8	1168.2	922.9	797.8	739.5
25°	9356.2	9026.3	7918.9	5445.6	3553.4	2217.3	1259.9	922.9	778.8	687.1	638.3
27.5°	10277.9	10009.9	8781.0	5639.7	3348.6	1807.6	1022.9	782.4	665.7	604.9	565.6
30°	11198.4	10861.4	9665.8	5870.7	3102.1	1530.2	899.1	713.3	596.6	532.3	507.3
32.5°	11867.6	11587.8	10358.9	6037.4	2838.9	1349.2	803.8	652.6	557.3	491.8	454.9
35°	12654.7	12338.0	10953.1	6074.3	2669.8	1234.9	722.8	587.1	483.5	425.1	385.8
37.5°	13505.0	13110.8	11639.0	5993.3	2537.6	1178.9	662.1	557.3	451.3	391.8	350.1
40°	14445.7	14000.3	12297.5	5876.6	2407.8	1159.8	615.6	534.7	426.3	365.6	322.7
42.5°	15436.5	14911.3	12867.9	5754.0	2325.7	1094.4	610.9	512.0	407.3	341.8	298.9
45°	16268.8	15736.5	13453.8	5713.5	2267.3	1022.9	631.1	496.6	394.2	322.7	281.0
47.5°	16932.1	16428.4	14053.9	5804.0	2234.0	957.4	575.2	516.8	387.0	306.0	265.6
50°	17724.0	17153.6	14899.4	6074.3	2185.1	891.9	520.4	591.8	387.0	295.3	252.5
52.5°	18717.1	18152.7	15842.5	6493.5	2087.5	801.4	468.0	593.0	390.6	281.0	235.8
55°	19966.3	19556.7	17189.3	6953.1	1931.5	668.0	404.9	509.7	376.3	254.8	220.3
57.5°	21164.3	20829.6	18417.1	7267.5	1723.1	521.6	352.5	410.8	344.1	223.9	196.5
59°	21491.7	21126.1	18867.2	7281.8	1567.1	454.9	326.3	339.4	337.0	209.6	182.2
60°	21491.7	21103.5	18997.0	7205.6	1454.0	418.0	309.6	302.5	351.3	200.1	173.9
62.5°	21102.3	20556.9	18575.4	6690.0	1186.0	356.1	270.3	250.1	315.6	179.8	153.6
65°	20292.6	19498.3	17139.3	5757.6	1057.4	326.3	233.4	204.8	219.1	158.4	134.6
67.5°	18942.2	17865.7	15068.5	4651.3	1006.2	317.9	201.2	173.9	165.5	135.8	117.9
70°	16564.2	15369.8	12554.7	3657.0	962.2	314.4	169.1	146.5	133.4	114.3	100.0
72.5°	12055.8	10810.2	8913.2	2859.1	936.0	321.5	135.8	122.7	109.6	89.3	77.4
75°	6896.0	6080.3	5009.7	1888.6	797.8	307.2	104.8	102.4	78.6	64.3	53.6
77.5°	3562.9	3454.5	3002.0	725.2	382.2	134.6	69.1	59.5	46.4	39.3	32.2
80°	1537.3	1520.7	1315.8	209.6	101.2	75.0	39.3	25.0	21.4	16.7	13.1
82.5°	531.1	531.1	468.0	70.3	45.3	36.9	4.8	0.0	0.0	0.0	0.0
85°	107.2	120.3	84.5	0.0	15.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0
2.5°	7141.3	6997.2	6987.7	6897.2	6784.0	6732.8	6703.1	6755.5	6819.8	6826.9	6923.4
5°	5543.2	5392.0	5455.1	5294.3	5326.5	5294.3	5241.9	5251.5	5280.0	5190.7	5301.5
7.5°	3892.8	3778.4	3851.1	3808.2	3865.4	3888.0	3855.8	3808.2	3667.7	3651.0	3747.5
10°	2934.2	2804.4	2727.0	2646.0	2663.8	2700.8	2688.8	2654.3	2565.0	2569.8	2662.6
12.5°	2357.8	2212.5	2058.9	1860.0	1811.2	1838.6	1811.2	1791.0	1705.2	1712.4	1794.5
15°	1788.6	1669.5	1508.8	1349.2	1262.3	1270.6	1194.4	1140.8	1087.2	1022.9	1072.9
17.5°	1207.5	1134.8	1087.2	1039.6	936.0	912.2	815.7	712.1	671.6	641.8	663.3
20°	855.0	815.7	796.7	794.3	734.7	705.0	610.9	546.6	526.3	520.4	533.5
22.5°	714.5	685.9	658.5	643.0	613.3	578.7	507.3	475.1	460.8	453.7	463.2
25°	621.6	600.2	571.6	545.4	533.5	496.6	445.4	421.5	412.0	404.9	409.6
27.5°	552.5	533.5	500.1	483.5	473.9	441.8	397.7	378.7	370.3	368.0	366.8
30°	497.8	479.9	448.9	429.9	413.2	384.6	358.4	339.4	331.0	328.7	326.3
32.5°	443.0	428.7	408.4	389.4	371.5	345.3	322.7	307.2	294.1	291.7	290.6
35°	373.9	359.6	348.9	347.7	331.0	306.0	289.4	269.1	258.4	254.8	256.0
37.5°	332.2	313.2	289.4	297.7	292.9	275.1	252.5	232.2	221.5	219.1	219.1
40°	306.0	285.8	258.4	244.1	258.4	254.8	219.1	198.9	188.1	187.0	184.6
42.5°	281.0	260.8	229.8	206.0	213.2	223.9	189.3	170.3	159.6	157.2	153.6
45°	263.2	241.7	207.2	179.8	165.5	188.1	162.0	138.1	132.2	127.4	125.0
47.5°	246.5	226.3	187.0	156.0	132.2	135.8	129.8	113.1	106.0	101.2	100.0
50°	232.2	210.8	169.1	133.4	109.6	100.0	104.8	89.3	83.4	78.6	76.2
52.5°	215.5	195.3	150.0	115.5	91.7	78.6	79.8	70.3	64.3	60.7	59.5
55°	202.4	182.2	134.6	101.2	81.0	64.3	57.2	54.8	51.2	48.8	47.6
57.5°	184.6	165.5	119.1	85.7	69.1	52.4	44.1	44.1	42.9	40.5	39.3
59°	173.9	157.2	109.6	77.4	63.1	45.3	39.3	40.5	39.3	36.9	35.7
60°	165.5	150.0	102.4	71.4	59.5	41.7	35.7	38.1	36.9	34.5	33.3
62.5°	146.5	135.8	88.1	59.5	52.4	33.3	29.8	32.2	32.2	31.0	29.8
65°	128.6	116.7	75.0	50.0	48.8	28.6	23.8	28.6	29.8	27.4	25.0
67.5°	111.9	100.0	65.5	40.5	45.3	22.6	17.9	23.8	32.2	25.0	22.6
70°	95.3	83.4	51.2	32.2	47.6	15.5	14.3	21.4	38.1	27.4	21.4
72.5°	73.8	64.3	35.7	23.8	51.2	10.7	10.7	17.9	42.9	29.8	20.2
75°	51.2	41.7	21.4	14.3	41.7	7.1	7.1	16.7	40.5	27.4	19.1
77.5°	29.8	22.6	7.1	1.2	21.4	0.0	1.2	11.9	28.6	16.7	8.3
80°	10.7	4.8	0.0	0.0	13.1	0.0	0.0	0.0	2.4	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0
2.5°	6948.4	7109.1	7253.2	7471.1	7729.5	8027.2	8283.3	8558.3	8816.8	8923.9	8997.8
5°	5324.1	5523.0	5755.2	6075.5	6501.8	7027.0	7518.8	8074.9	8672.7	8971.6	9252.6
7.5°	3764.1	3966.6	4254.8	4595.3	5111.0	5736.1	6379.2	7147.2	7957.0	8429.7	8895.3
10°	2706.7	2955.6	3224.7	3690.3	4214.3	4807.3	5469.4	6326.8	7229.4	7753.4	8314.2
12.5°	1842.2	2125.6	2532.9	3054.4	3670.1	4251.2	4826.4	5644.4	6692.3	7211.5	7812.9
15°	1105.1	1262.3	1693.3	2297.1	3052.0	3776.1	4406.0	5226.5	6343.4	6979.3	7604.5
17.5°	681.1	753.8	988.4	1483.7	2276.8	3192.6	4055.9	5084.8	6393.5	7167.5	7836.7
20°	543.0	571.6	646.6	876.4	1508.8	2549.5	3661.7	5056.2	6801.9	7754.6	8472.6
22.5°	471.6	498.9	549.0	637.1	949.1	1908.9	3287.8	5082.4	7387.8	8634.6	9472.9
25°	415.6	439.4	487.0	559.7	695.4	1344.4	2887.7	5199.1	8151.1	9726.5	10617.3
27.5°	371.5	391.8	435.8	502.5	596.6	938.4	2434.0	5340.8	9056.1	10843.5	11722.3
30°	331.0	348.9	388.2	450.1	518.0	721.6	1936.3	5437.2	9962.3	11722.3	12511.8
32.5°	296.5	309.6	345.3	397.7	450.1	575.2	1471.8	5421.8	10635.1	12453.5	13079.9
35°	260.8	273.9	304.8	350.1	391.8	475.1	1157.5	5132.4	11221.0	13212.0	13730.0
37.5°	221.5	238.2	267.9	308.4	337.0	418.0	936.0	4783.5	11815.2	14078.9	14455.2
40°	188.1	204.8	231.0	275.1	292.9	396.5	719.2	4358.4	12483.3	15048.3	15250.7
42.5°	156.0	171.5	198.9	237.0	276.3	341.8	532.3	3872.5	13125.1	15877.1	15975.9
45°	126.2	141.7	170.3	208.4	295.3	283.4	412.0	3352.1	13643.1	16566.5	16598.7
47.5°	100.0	114.3	144.1	196.5	275.1	226.3	294.1	2943.7	14077.7	17104.8	17020.2
50°	77.4	89.3	120.3	225.1	240.5	187.0	222.7	2807.9	14467.1	17438.2	17219.1
52.5°	60.7	71.4	98.8	210.8	187.0	154.8	187.0	2935.3	15000.6	17714.5	17331.0
55°	48.8	59.5	77.4	120.3	127.4	131.0	159.6	3054.4	15921.1	18362.3	17991.9
57.5°	40.5	51.2	63.1	84.5	96.5	110.7	141.7	3067.5	17005.9	19438.8	19088.7
59°	36.9	46.4	57.2	75.0	84.5	101.2	133.4	2996.1	17388.2	19830.5	19655.5
60°	34.5	44.1	53.6	69.1	78.6	95.3	128.6	2928.2	17404.9	19816.3	19897.2
62.5°	29.8	39.3	47.6	58.3	66.7	81.0	115.5	2676.9	16699.9	19167.3	19752.0
65°	26.2	34.5	42.9	50.0	57.2	72.6	104.8	2218.5	15496.0	18120.5	18757.6
67.5°	23.8	29.8	39.3	44.1	51.2	64.3	92.9	1581.4	13992.0	16840.4	17253.6
70°	21.4	28.6	35.7	40.5	46.4	56.0	79.8	908.6	11815.2	14966.1	15260.2
72.5°	20.2	27.4	32.2	38.1	41.7	50.0	72.6	427.5	8651.2	11989.1	12757.1
75°	17.9	25.0	29.8	35.7	39.3	45.3	61.9	204.8	5754.0	8676.2	9549.1
77.5°	10.7	20.2	27.4	32.2	34.5	39.3	51.2	117.9	3672.5	6005.3	7073.4
80°	0.0	7.1	20.2	27.4	29.8	33.3	39.3	92.9	1964.8	3430.7	4117.8
82.5°	0.0	0.0	14.3	21.4	20.2	22.6	29.8	58.3	886.0	2242.3	2526.9
85°	0.0	0.0	4.8	16.7	14.3	10.7	20.2	20.2	194.1	1134.8	1415.9
87.5°	0.0	0.0	0.0	1.2	7.1	4.8	8.3	2.4	1.2	84.5	343.0
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: P324594

CATALOG NUMBER: GLEON-SA0A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0
2.5°	9256.2	9344.3	9493.1	9563.4	9528.9	9382.4	9207.3	9028.7	8923.9	8965.6
5°	9825.4	10279.1	10541.0	10628.0	10482.7	10154.0	9724.1	9157.3	8956.1	8901.3
7.5°	9825.4	10679.2	11219.8	11315.1	10991.2	10346.9	9540.8	8656.0	8361.9	8254.7
10°	9480.0	10642.3	11396.0	11547.3	11094.8	10131.4	9051.3	8041.5	7692.6	7581.9
12.5°	9090.6	10342.2	11136.4	11344.8	10973.3	9917.1	8712.0	7625.9	7215.1	7118.7
15°	8851.3	9973.0	10630.4	10781.6	10624.4	9792.0	8631.0	7500.9	7017.4	6924.6
17.5°	8937.0	9687.2	9924.2	10012.3	10118.3	9748.0	8851.3	7774.8	7162.7	7074.6
20°	9259.7	9386.0	9263.3	9374.1	9659.8	9790.8	9376.4	8436.9	7702.2	7584.3
22.5°	9807.5	9230.0	8885.8	8929.9	9277.6	9932.5	10179.0	9382.4	8534.5	8386.9
25°	10445.8	9356.2	8676.2	8636.9	8994.2	10119.5	10912.6	10411.2	9519.3	9356.2
27.5°	11248.4	9639.6	8633.4	8594.1	8895.3	10294.5	11522.3	11428.2	10556.5	10277.9
30°	11867.6	9918.3	8760.8	8670.3	8994.2	10416.0	12011.7	12291.5	11382.9	11198.4
32.5°	12311.8	10246.9	8968.0	8837.0	9272.8	10625.6	12389.2	13082.2	12147.4	11867.6
35°	12650.0	10604.2	9302.6	9087.1	9656.3	10943.5	12742.9	13924.1	12960.8	12654.7
37.5°	12966.7	11105.5	9825.4	9568.2	10257.6	11455.6	13116.8	14879.2	13870.5	13505.0
40°	13408.5	11673.5	10631.5	10402.9	11268.6	12153.4	13583.6	15874.7	14905.4	14445.7
42.5°	13850.3	12283.2	11456.8	11518.7	12529.7	13001.3	14186.1	16927.4	15927.1	15436.5
45°	14254.0	12911.9	12632.1	12917.9	13700.3	13931.3	14785.1	17535.9	16742.8	16268.8
47.5°	14613.6	13697.9	13800.3	14561.2	15031.6	14773.2	15232.8	18061.0	17350.1	16932.1
50°	15031.6	14714.8	15340.0	16416.5	16564.2	15535.3	15640.1	18682.6	18059.8	17724.0
52.5°	15488.9	15786.6	17045.2	17994.3	17946.7	16362.9	16049.7	19379.2	19032.7	18717.1
55°	16008.1	16652.3	18546.9	19470.9	19430.4	17287.0	16728.5	20240.2	20252.1	19966.3
57.5°	16778.5	17397.7	19566.2	20665.3	20733.2	18353.9	17878.8	21204.7	21354.8	21164.3
59°	17331.0	17881.2	19969.9	21164.3	21440.5	19179.2	18719.5	21764.4	21665.6	21491.7
60°	17740.7	18188.4	20169.9	21425.0	21851.4	19738.9	19339.9	22093.1	21702.5	21491.7
62.5°	18754.1	18857.7	20530.7	21720.4	22324.1	20982.1	21085.7	22652.8	21446.5	21102.3
65°	19226.8	19280.4	20526.0	21191.6	21866.8	21950.2	22669.4	22669.4	20821.3	20292.6
67.5°	19029.1	18770.7	19507.8	19438.8	20112.8	21375.0	23264.8	21838.3	19625.7	18942.2
70°	17421.5	16427.2	16099.7	16129.5	16645.1	18592.1	22085.9	19392.3	17363.2	16564.2
72.5°	14495.7	12110.5	11302.0	12224.8	12359.4	14288.5	18821.9	14604.1	12804.8	12055.8
75°	11659.2	8536.9	7222.3	8196.3	8425.0	10456.5	14560.0	9095.4	7479.5	6896.0
77.5°	8376.2	6127.9	5182.4	5114.5	5409.8	6631.6	10331.5	4577.5	3817.7	3562.9
80°	4758.5	4033.3	4342.9	4097.6	4246.4	4146.4	4908.5	2007.7	1644.5	1537.3
82.5°	2872.2	2384.0	2581.7	2149.4	2719.8	2368.5	1891.0	643.0	558.5	531.1
85°	1868.4	1302.7	678.8	454.9	937.2	1513.5	422.7	175.0	134.6	107.2
87.5°	644.2	332.2	33.3	14.3	100.0	282.2	15.5	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)