

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: P324613

Luminaire Tested: **GLEON-SA9C-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324613
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-SA9C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 34457 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

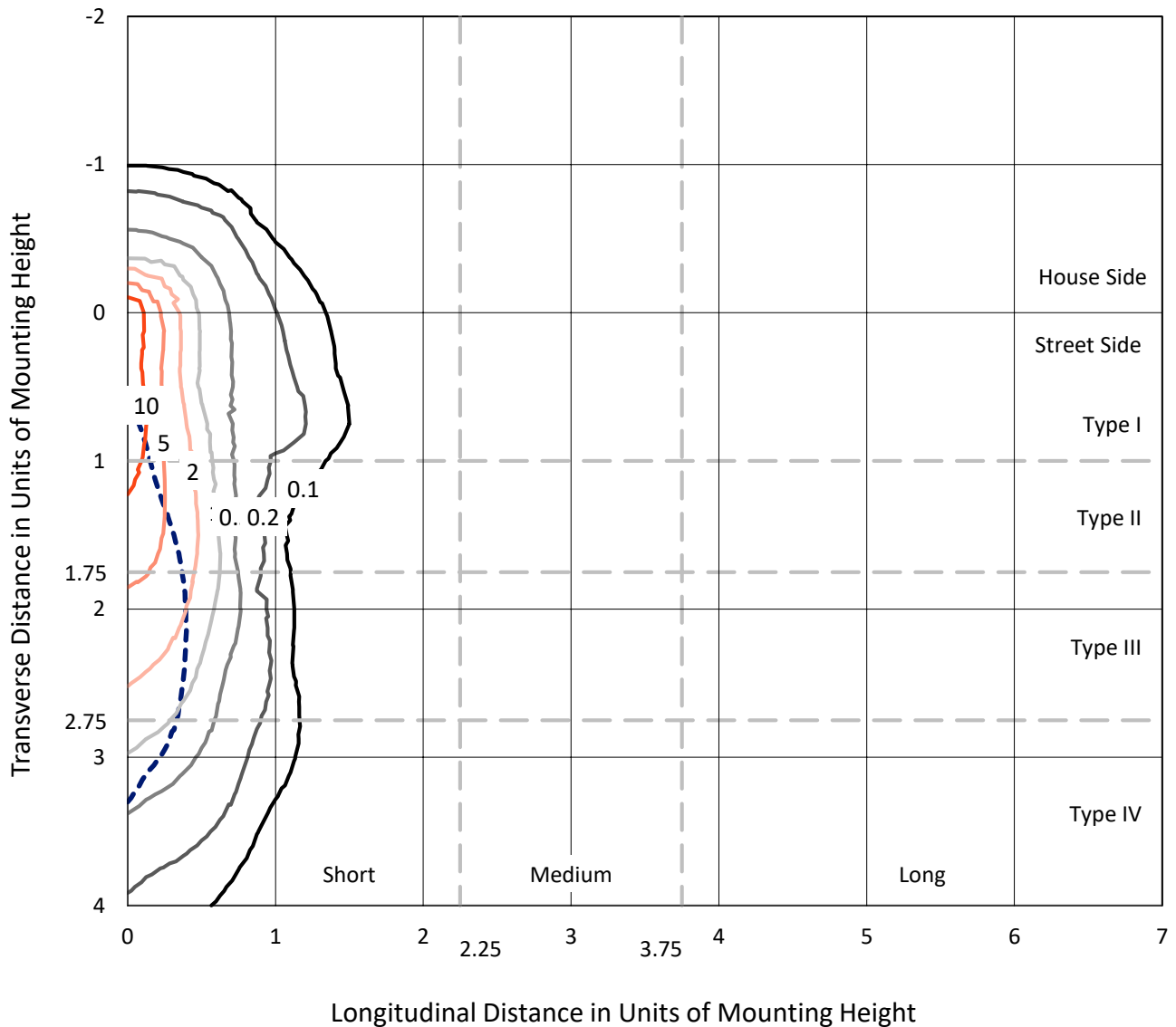
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

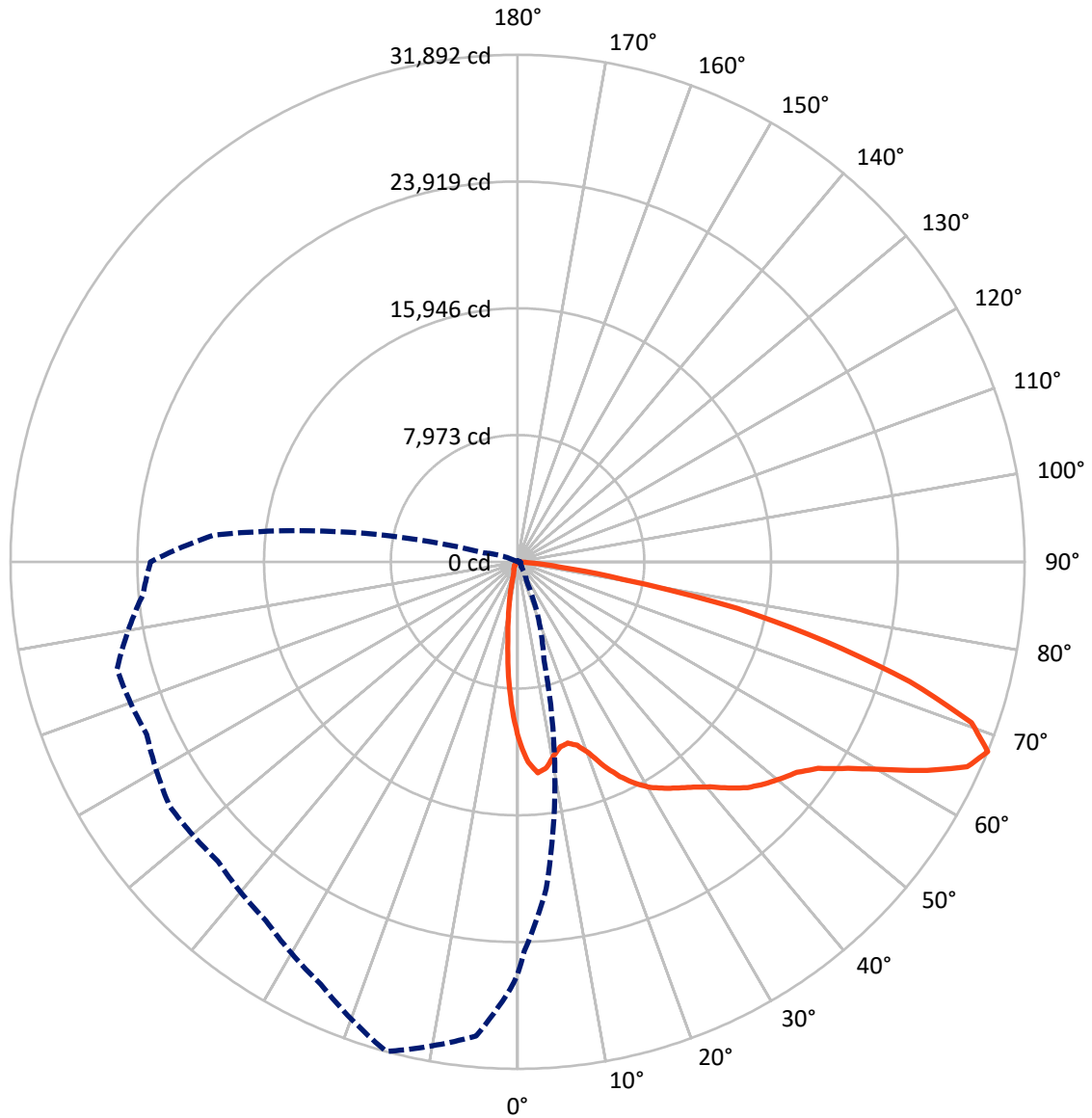
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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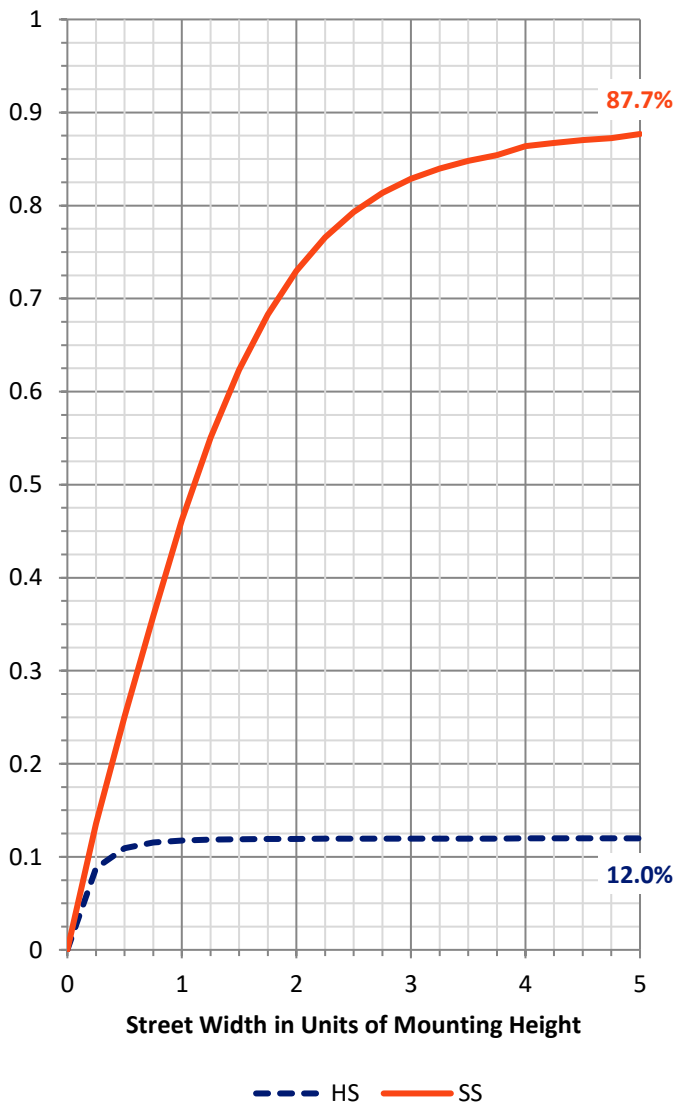
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4170.4	0.0	4170.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	30286.6	0.0	30286.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	34457.0	0.0	34457.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.5	2.5
10°-20°	1714.7	5.0
20°-30°	2434.9	7.1
30°-40°	3596.5	10.4
40°-50°	5186.9	15.1
50°-60°	7281.3	21.1
60°-70°	8487.9	24.6
70°-80°	4339.2	12.6
80°-90°	554.2	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°	34457.0	100.0
0°-180°	34457.0	100.0

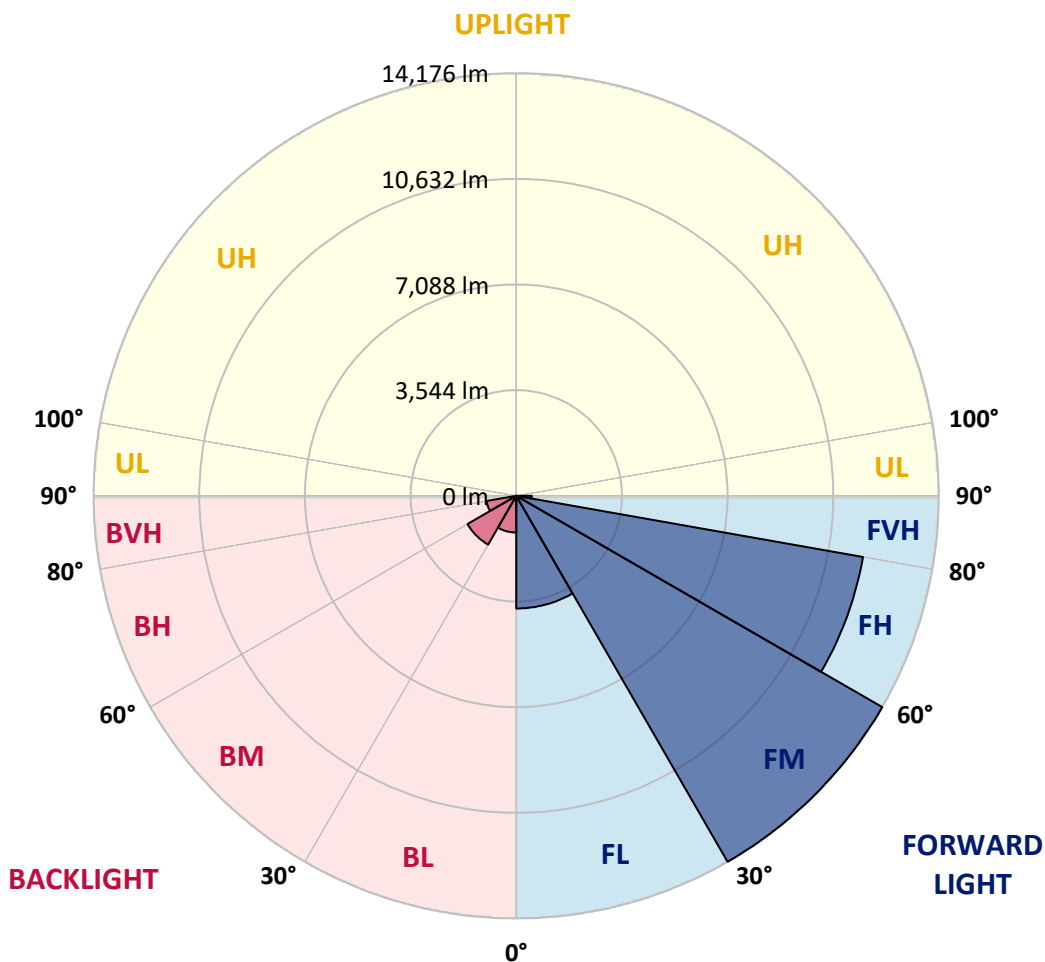


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3779.3	11.0			
FM (30°-60°)	14176.2	41.1			
FH (60°-80°)	11810.6	34.3			G4/12000
FVH (80°-90°)	520.5	1.5			G4/750
BL (0°-30°)	1231.8	3.6	B3/2500		
BM (30°-60°)	1888.5	5.5	B2/2500		
BH (60°-80°)	1016.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	33.7	0.1			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3
2.5°	12290.3	12195.6	12091.1	11749.9	11433.2	11070.9	10775.4	10569.7	10311.8	9977.2	9892.3
5°	12202.1	12100.9	11772.8	11013.7	10349.3	9702.9	9079.3	8713.7	8259.9	7799.6	7685.3
7.5°	11315.7	11209.6	10736.2	9696.4	8801.8	7868.1	7058.4	6557.3	6044.7	5623.6	5399.9
10°	10393.4	10277.5	9745.4	8483.5	7381.7	6537.7	5943.5	5465.2	4980.4	4529.9	4170.8
12.5°	9758.4	9606.6	9028.7	7598.8	6638.9	6066.0	5510.9	4938.0	4281.8	3798.6	3403.5
15°	9492.3	9319.3	8708.8	7257.6	6376.1	5703.6	4980.4	4276.9	3508.0	2954.6	2592.2
17.5°	9698.0	9472.8	8818.2	7234.7	6046.4	5130.6	4216.5	3390.5	2556.3	1996.4	1738.5
20°	10396.7	10101.2	9270.3	7228.2	5646.4	4449.9	3290.9	2357.2	1684.6	1354.9	1219.4
22.5°	11496.9	11106.8	9920.0	7280.5	5233.4	3734.9	2376.8	1601.4	1265.1	1093.7	1013.7
25°	12825.7	12373.5	10855.4	7464.9	4871.0	3039.5	1727.1	1265.1	1067.6	941.9	875.0
27.5°	14089.1	13721.9	12037.2	7731.0	4590.3	2478.0	1402.2	1072.5	912.5	829.3	775.4
30°	15351.0	14889.0	13250.1	8047.7	4252.4	2097.6	1232.5	977.8	817.8	729.7	695.4
32.5°	16268.4	15884.8	14200.1	8276.2	3891.6	1849.5	1101.9	894.5	764.0	674.2	623.6
35°	17347.4	16913.2	15014.7	8326.8	3659.8	1692.8	990.9	804.8	662.7	582.8	528.9
37.5°	18512.9	17972.6	15955.0	8215.8	3478.6	1616.1	907.6	764.0	618.7	537.1	479.9
40°	19802.5	19192.0	16857.7	8055.8	3300.7	1589.9	843.9	732.9	584.4	501.1	442.4
42.5°	21160.7	20440.8	17639.6	7887.7	3188.1	1500.2	837.4	701.9	558.3	468.5	409.7
45°	22301.7	21572.0	18442.7	7832.2	3108.1	1402.2	865.2	680.7	540.3	442.4	385.2
47.5°	23210.9	22520.4	19265.4	7956.3	3062.4	1312.4	788.4	708.5	530.5	419.5	364.0
50°	24296.5	23514.6	20424.4	8326.8	2995.4	1222.7	713.4	611.3	530.5	404.8	346.1
52.5°	25657.9	24884.1	21717.3	8901.4	2861.6	1098.6	641.5	512.9	535.4	385.2	323.2
55°	27370.3	26808.7	23563.5	9531.5	2647.7	915.8	555.0	468.7	515.8	349.3	302.0
57.5°	29012.4	28553.7	25246.5	9962.5	2362.1	715.0	483.2	363.2	471.8	306.9	269.3
59°	29461.3	28960.2	25863.6	9982.1	2148.2	623.6	447.3	346.2	462.0	287.3	249.8
60°	29461.3	28929.2	26041.5	9877.6	1993.1	573.0	424.4	341.6	481.6	274.2	238.3
62.5°	28927.6	28179.9	25463.6	9170.8	1625.9	488.1	370.6	342.8	432.6	246.5	210.6
65°	27817.5	26728.7	23495.0	7892.6	1449.6	447.3	319.9	280.8	300.4	217.1	184.5
67.5°	25966.4	24490.7	20656.2	6376.1	1379.4	435.8	275.9	238.3	226.9	186.1	161.6
70°	22706.5	21069.2	17210.3	5013.1	1319.0	431.0	231.8	200.8	182.8	156.7	137.1
72.5°	16526.3	14818.8	12218.4	3919.4	1283.1	440.7	186.1	168.1	150.2	122.4	106.1
75°	9453.2	8335.0	6867.5	2589.0	1093.7	421.2	143.7	140.4	107.7	88.1	73.5
77.5°	4884.1	4735.6	4115.3	994.1	524.0	184.5	94.7	81.6	63.7	53.9	44.1
80°	2107.4	2084.6	1803.8	287.3	138.8	102.8	53.9	34.3	29.4	22.9	18.0
82.5°	728.0	728.0	641.5	96.3	62.0	50.6	6.5	0.0	0.0	0.0	0.0
85°	146.9	164.9	115.9	0.0	21.2	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°	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3
2.5°	9789.4	9591.9	9578.9	9454.8	9299.7	9229.5	9188.7	9260.5	9348.7	9358.5	9490.7
5°	7598.8	7391.5	7478.0	7257.6	7301.7	7257.6	7185.8	7198.8	7238.0	7115.6	7267.4
7.5°	5336.3	5179.6	5279.1	5220.4	5298.7	5329.7	5285.7	5220.4	5027.8	5004.9	5137.1
10°	4022.2	3844.3	3738.2	3627.2	3651.7	3702.3	3685.9	3638.6	3516.2	3522.7	3650.0
12.5°	3232.1	3033.0	2822.4	2549.8	2482.9	2520.4	2482.9	2455.1	2337.6	2347.4	2460.0
15°	2451.8	2288.6	2068.2	1849.5	1730.3	1741.8	1637.3	1563.8	1490.4	1402.2	1470.8
17.5°	1655.2	1555.7	1490.4	1425.1	1283.1	1250.4	1118.2	976.2	920.7	879.9	909.2
20°	1172.1	1118.2	1092.1	1088.8	1007.2	966.4	837.4	749.3	721.5	713.4	731.3
22.5°	979.4	940.3	902.7	881.5	840.7	793.3	695.4	651.3	631.7	621.9	635.0
25°	852.1	822.7	783.5	747.6	731.3	680.7	610.5	577.9	564.8	555.0	561.5
27.5°	757.4	731.3	685.6	662.7	649.7	605.6	545.2	519.1	507.7	504.4	502.8
30°	682.3	657.9	615.4	589.3	566.4	527.3	491.3	465.2	453.8	450.5	447.3
32.5°	607.2	587.7	559.9	533.8	509.3	473.4	442.4	421.2	403.2	399.9	398.3
35°	512.6	493.0	478.3	476.7	453.8	419.5	396.7	368.9	354.2	349.3	351.0
37.5°	455.4	429.3	396.7	408.1	401.6	377.1	346.1	318.3	303.6	300.4	300.4
40°	419.5	391.8	354.2	334.6	354.2	349.3	300.4	272.6	257.9	256.3	253.0
42.5°	385.2	357.5	315.1	282.4	292.2	306.9	259.5	233.4	218.7	215.5	210.6
45°	360.8	331.4	284.0	246.5	226.9	257.9	222.0	189.4	181.2	174.7	171.4
47.5°	337.9	310.2	256.3	213.8	181.2	186.1	177.9	155.1	145.3	138.8	137.1
50°	318.3	288.9	231.8	182.8	150.2	137.1	143.7	122.4	114.3	107.7	104.5
52.5°	295.5	267.7	205.7	158.3	125.7	107.7	109.4	96.3	88.1	83.3	81.6
55°	277.5	249.8	184.5	138.8	111.0	88.1	78.4	75.1	70.2	66.9	65.3
57.5°	253.0	226.9	163.2	117.5	94.7	71.8	60.4	60.4	58.8	55.5	53.9
59°	238.3	215.5	150.2	106.1	86.5	62.0	53.9	55.5	53.9	50.6	49.0
60°	226.9	205.7	140.4	97.9	81.6	57.1	49.0	52.2	50.6	47.3	45.7
62.5°	200.8	186.1	120.8	81.6	71.8	45.7	40.8	44.1	44.1	42.4	40.8
65°	176.3	160.0	102.8	68.6	66.9	39.2	32.6	39.2	40.8	37.5	34.3
67.5°	153.4	137.1	89.8	55.5	62.0	31.0	24.5	32.6	44.1	34.3	31.0
70°	130.6	114.3	70.2	44.1	65.3	21.2	19.6	29.4	52.2	37.5	29.4
72.5°	101.2	88.1	49.0	32.6	70.2	14.7	14.7	24.5	58.8	40.8	27.8
75°	70.2	57.1	29.4	19.6	57.1	9.8	9.8	22.9	55.5	37.5	26.1
77.5°	40.8	31.0	9.8	1.6	29.4	0.0	1.6	16.3	39.2	22.9	11.4
80°	14.7	6.5	0.0	0.0	18.0	0.0	0.0	0.0	3.3	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°	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3
2.5°	9525.0	9745.4	9942.9	10241.6	10595.8	11003.9	11354.9	11732.0	12086.2	12233.1	12334.3
5°	7298.4	7571.0	7889.3	8328.4	8912.8	9632.7	10306.9	11069.2	11888.7	12298.4	12683.7
7.5°	5160.0	5437.5	5832.5	6299.4	7006.2	7863.2	8744.7	9797.6	10907.6	11555.7	12193.9
10°	3710.4	4051.6	4420.5	5058.8	5777.0	6590.0	7497.6	8672.9	9910.2	10628.5	11397.3
12.5°	2525.3	2913.8	3472.1	4187.1	5031.0	5827.6	6616.1	7737.5	9174.0	9885.7	10710.1
15°	1514.9	1730.3	2321.3	3148.9	4183.8	5176.3	6039.8	7164.6	8695.7	9567.4	10424.4
17.5°	933.7	1033.3	1354.9	2034.0	3121.1	4376.4	5559.9	6970.3	8764.3	9825.3	10742.7
20°	744.4	783.5	886.4	1201.4	2068.2	3494.9	5019.6	6931.1	9324.2	10630.1	11614.4
22.5°	646.4	684.0	752.5	873.3	1301.0	2616.7	4507.0	6967.0	10127.3	11836.4	12985.7
25°	569.7	602.4	667.6	767.2	953.3	1843.0	3958.5	7127.0	11173.7	13333.3	14554.4
27.5°	509.3	537.1	597.5	688.9	817.8	1286.3	3336.6	7321.3	12414.3	14864.5	16069.2
30°	453.8	478.3	532.2	617.0	710.1	989.2	2654.3	7453.5	13656.6	16069.2	17151.5
32.5°	406.5	424.4	473.4	545.2	617.0	788.4	2017.6	7432.3	14578.9	17071.5	17930.2
35°	357.5	375.4	417.9	479.9	537.1	651.3	1586.7	7035.6	15382.0	18111.4	18821.4
37.5°	303.6	326.5	367.3	422.8	462.0	573.0	1283.1	6557.3	16196.6	19299.7	19815.6
40°	257.9	280.8	316.7	377.1	401.6	543.6	986.0	5974.5	17112.3	20628.5	20906.0
42.5°	213.8	235.1	272.6	324.8	378.7	468.5	729.7	5308.5	17992.2	21764.6	21900.1
45°	173.0	194.3	233.4	285.7	404.8	388.5	564.8	4595.2	18702.3	22709.8	22753.9
47.5°	137.1	156.7	197.5	269.3	377.1	310.2	403.2	4035.3	19298.1	23447.6	23331.7
50°	106.1	122.4	164.9	308.5	329.7	256.3	305.3	3849.2	19831.9	23904.7	23604.3
52.5°	83.3	97.9	135.5	288.9	256.3	212.2	256.3	4023.8	20563.2	24283.4	23757.8
55°	66.9	81.6	106.1	164.9	174.7	179.6	218.7	4187.1	21825.0	25171.4	24663.8
57.5°	55.5	70.2	86.5	115.9	132.2	151.8	194.3	4205.0	23312.1	26647.1	26167.2
59°	50.6	63.7	78.4	102.8	115.9	138.8	182.8	4107.1	23836.1	27184.2	26944.2
60°	47.3	60.4	73.5	94.7	107.7	130.6	176.3	4014.0	23859.0	27164.6	27275.6
62.5°	40.8	53.9	65.3	80.0	91.4	111.0	158.3	3669.6	22892.6	26274.9	27076.4
65°	35.9	47.3	58.8	68.6	78.4	99.6	143.7	3041.1	21242.3	24840.1	25713.4
67.5°	32.6	40.8	53.9	60.4	70.2	88.1	127.3	2167.8	19180.6	23085.2	23651.7
70°	29.4	39.2	49.0	55.5	63.7	76.7	109.4	1245.5	16196.6	20515.9	20919.1
72.5°	27.8	37.5	44.1	52.2	57.1	68.6	99.6	586.0	11859.3	16434.9	17487.8
75°	24.5	34.3	40.8	49.0	53.9	62.0	84.9	280.8	7887.7	11893.6	13090.1
77.5°	14.7	27.8	37.5	44.1	47.3	53.9	70.2	161.6	5034.3	8232.1	9696.4
80°	0.0	9.8	27.8	37.5	40.8	45.7	53.9	127.3	2693.4	4702.9	5644.8
82.5°	0.0	0.0	19.6	29.4	27.8	31.0	40.8	80.0	1214.5	3073.8	3463.9
85°	0.0	0.0	6.5	22.9	19.6	14.7	27.8	27.8	266.1	1555.7	1940.9
87.5°	0.0	0.0	0.0	1.6	9.8	6.5	11.4	3.3	1.6	115.9	470.1
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: P324613

CATALOG NUMBER: GLEON-SA9C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3	11224.3
2.5°	12688.6	12809.4	13013.4	13109.7	13062.4	12861.6	12621.6	12376.8	12233.1	12290.3
5°	13468.8	14090.8	14449.9	14569.1	14369.9	13919.4	13330.1	12553.1	12277.2	12202.1
7.5°	13468.8	14639.3	15380.4	15511.0	15066.9	14183.8	13078.7	11865.8	11462.6	11315.7
10°	12995.4	14588.7	15622.0	15829.3	15209.0	13888.4	12407.8	11023.5	10545.2	10393.4
12.5°	12461.7	14177.3	15266.1	15551.8	15042.5	13594.5	11942.6	10453.8	9890.6	9758.4
15°	12133.5	13671.3	14572.3	14779.6	14564.2	13423.1	11831.6	10282.4	9619.7	9492.3
17.5°	12251.1	13279.5	13604.3	13725.1	13870.4	13362.7	12133.5	10657.9	9818.8	9698.0
20°	12693.5	12866.5	12698.4	12850.2	13241.9	13421.5	12853.4	11565.5	10558.3	10396.7
22.5°	13444.4	12652.6	12180.9	12241.3	12717.9	13615.8	13953.7	12861.6	11699.3	11496.9
25°	14319.3	12825.7	11893.6	11839.7	12329.4	13872.0	14959.2	14272.0	13049.3	12825.7
27.5°	15419.5	13214.2	11834.8	11780.9	12193.9	14112.0	15795.0	15666.0	14471.1	14089.1
30°	16268.4	13596.2	12009.5	11885.4	12329.4	14278.5	16465.9	16849.5	15604.0	15351.0
32.5°	16877.3	14046.7	12293.5	12114.0	12711.4	14565.8	16983.4	17933.4	16652.0	16268.4
35°	17340.9	14536.4	12752.2	12456.8	13237.0	15001.7	17468.2	19087.5	17766.9	17347.4
37.5°	17775.1	15223.7	13468.8	13116.2	14061.4	15703.6	17980.8	20396.7	19014.1	18512.9
40°	18380.7	16002.3	14574.0	14260.5	15447.3	16660.2	18620.7	21761.4	20432.6	19802.5
42.5°	18986.3	16838.1	15705.2	15790.1	17176.0	17822.4	19446.6	23204.4	21833.2	21160.7
45°	19539.7	17700.0	17316.4	17708.2	18780.6	19097.3	20267.7	24038.6	22951.4	22301.7
47.5°	20032.7	18777.4	18917.8	19960.8	20605.6	20251.4	20881.5	24758.4	23783.9	23210.9
50°	20605.6	20171.4	21028.4	22504.1	22706.5	21296.1	21439.8	25610.5	24756.8	24296.5
52.5°	21232.5	21640.6	23366.0	24667.0	24601.7	22430.7	22001.3	26565.5	26090.5	25657.9
55°	21944.2	22827.3	25424.5	26691.2	26635.7	23697.4	22931.8	27745.7	27762.0	27370.3
57.5°	23000.4	23849.2	26821.8	28328.5	28421.5	25160.0	24508.7	29067.9	29273.6	29012.4
59°	23757.8	24511.9	27375.2	29012.4	29391.2	26291.3	25661.1	29835.2	29699.7	29461.3
60°	24319.3	24933.1	27649.4	29369.9	29954.3	27058.5	26511.6	30285.7	29750.3	29461.3
62.5°	25708.5	25850.5	28144.0	29774.8	30602.4	28762.7	28904.7	31052.9	29399.3	28927.6
65°	26356.5	26430.0	28137.5	29050.0	29975.6	30089.8	31075.8	31075.8	28542.3	27817.5
67.5°	26085.6	25731.3	26741.8	26647.1	27571.0	29301.4	31892.0	29936.4	26903.4	25966.4
70°	23881.8	22518.8	22069.9	22110.7	22817.5	25486.5	30275.9	26583.4	23801.9	22706.5
72.5°	19871.1	16601.4	15493.0	16758.1	16942.6	19587.0	25801.5	20019.6	17553.1	16526.3
75°	15982.7	11702.6	9900.4	11235.7	11549.1	14334.0	19959.2	12468.2	10253.0	9453.2
77.5°	11482.2	8400.3	7104.2	7011.1	7415.9	9090.8	14162.6	6274.9	5233.4	4884.1
80°	6523.0	5528.9	5953.3	5617.0	5821.1	5684.0	6728.7	2752.2	2254.3	2107.4
82.5°	3937.3	3268.0	3539.0	2946.5	3728.4	3246.8	2592.2	881.5	765.6	728.0
85°	2561.2	1785.8	930.5	623.6	1284.7	2074.8	579.5	240.0	184.5	146.9
87.5°	883.1	455.4	45.7	19.6	137.1	386.9	21.2	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)