

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: P324592

Luminaire Tested: **GLEON-SA8A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324592
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-SA8A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 20353 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

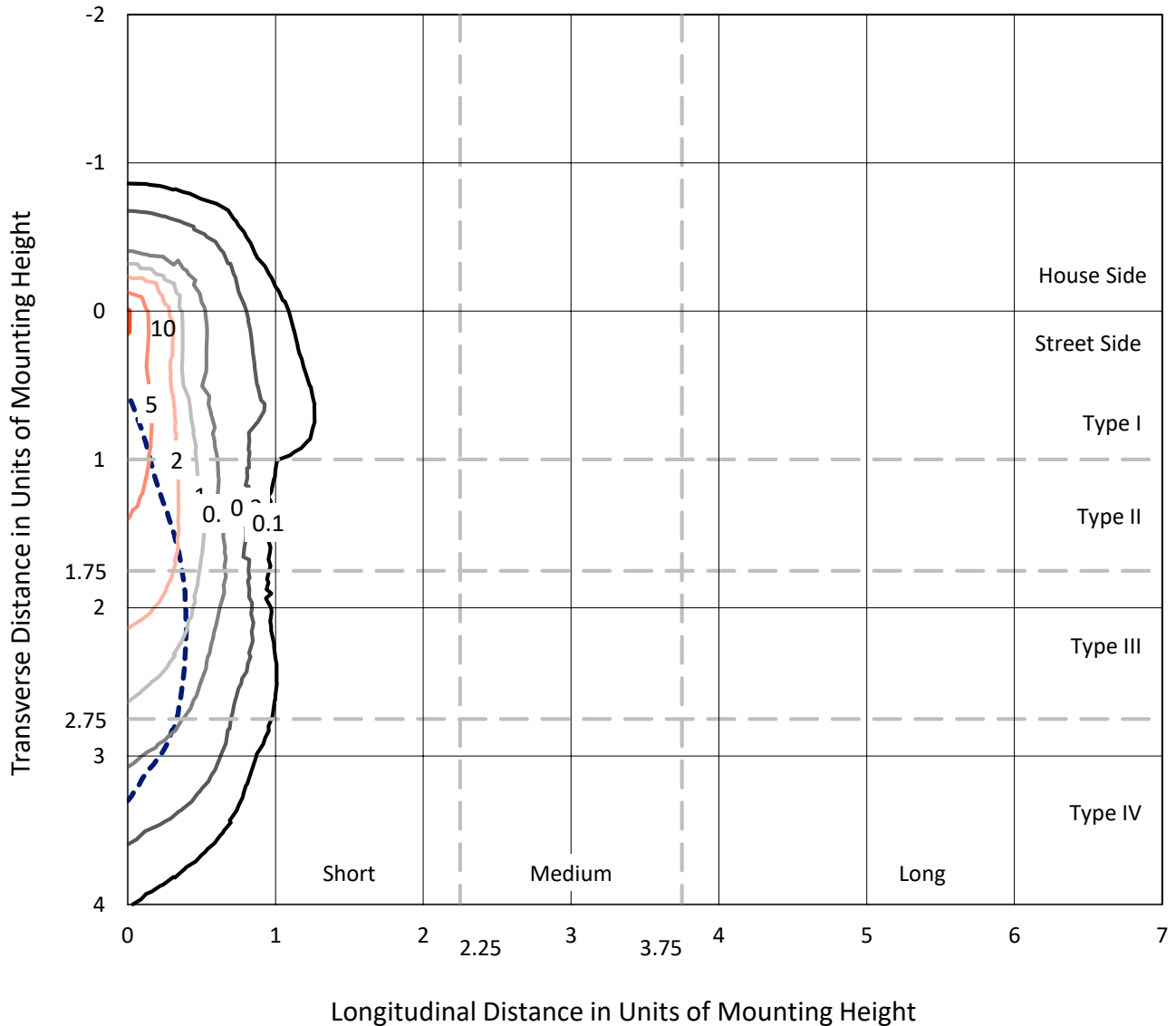
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

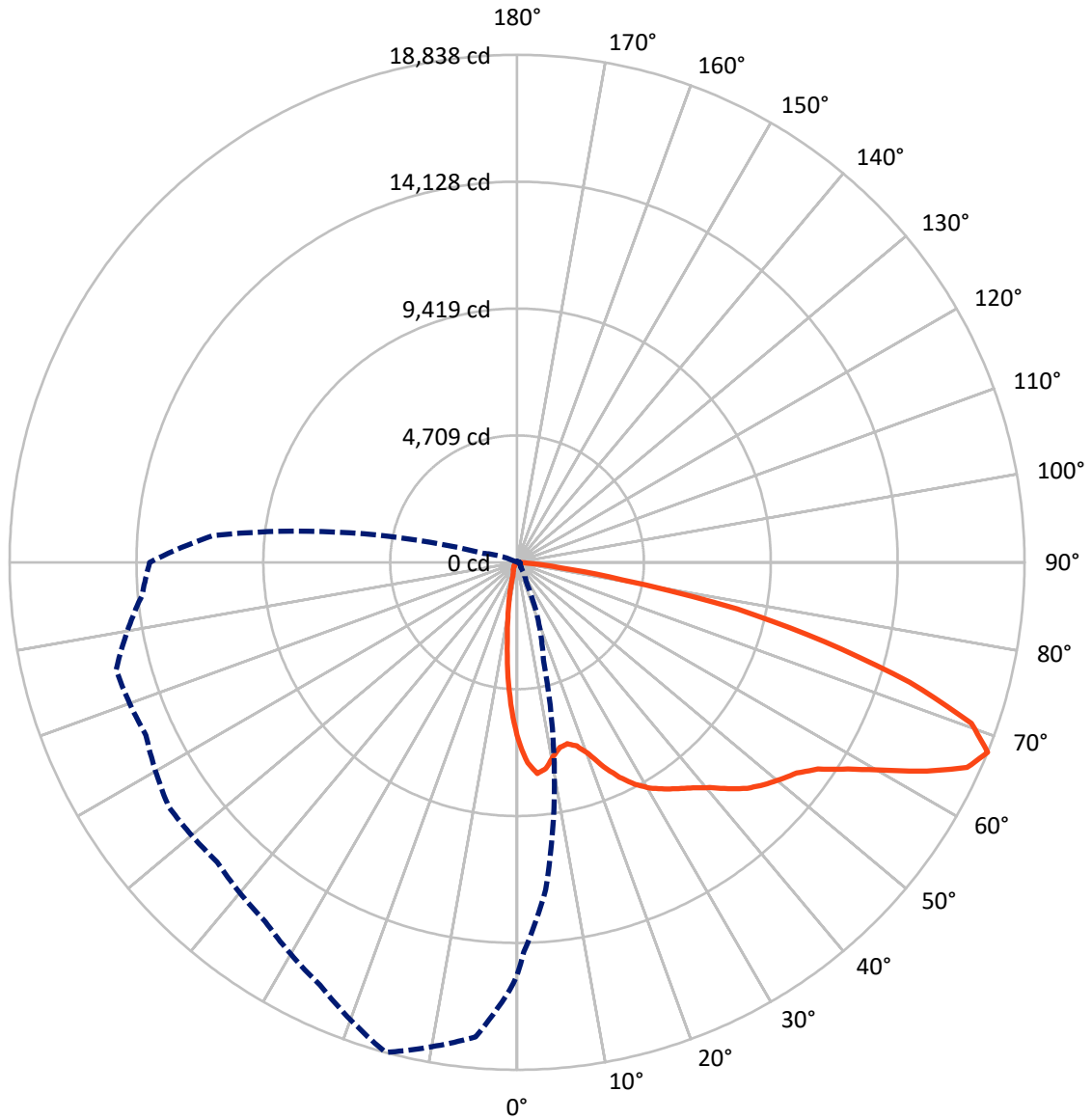
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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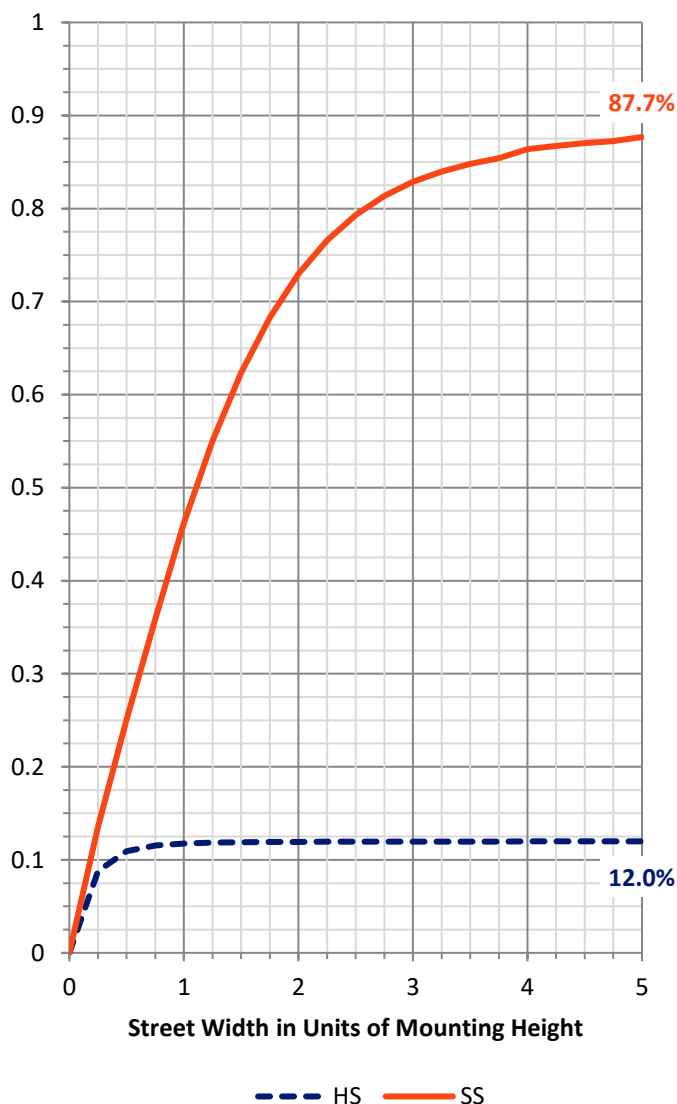
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2463.4	0.0	2463.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17889.6	0.0	17889.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	20353.0	0.0	20353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.8	2.5
10°-20°	1012.8	5.0
20°-30°	1438.2	7.1
30°-40°	2124.4	10.4
40°-50°	3063.8	15.1
50°-60°	4300.9	21.1
60°-70°	5013.6	24.6
70°-80°	2563.1	12.6
80°-90°	327.3	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°	20353.0	100.0
0°-180°	20353.0	100.0

Coefficient of Utilization



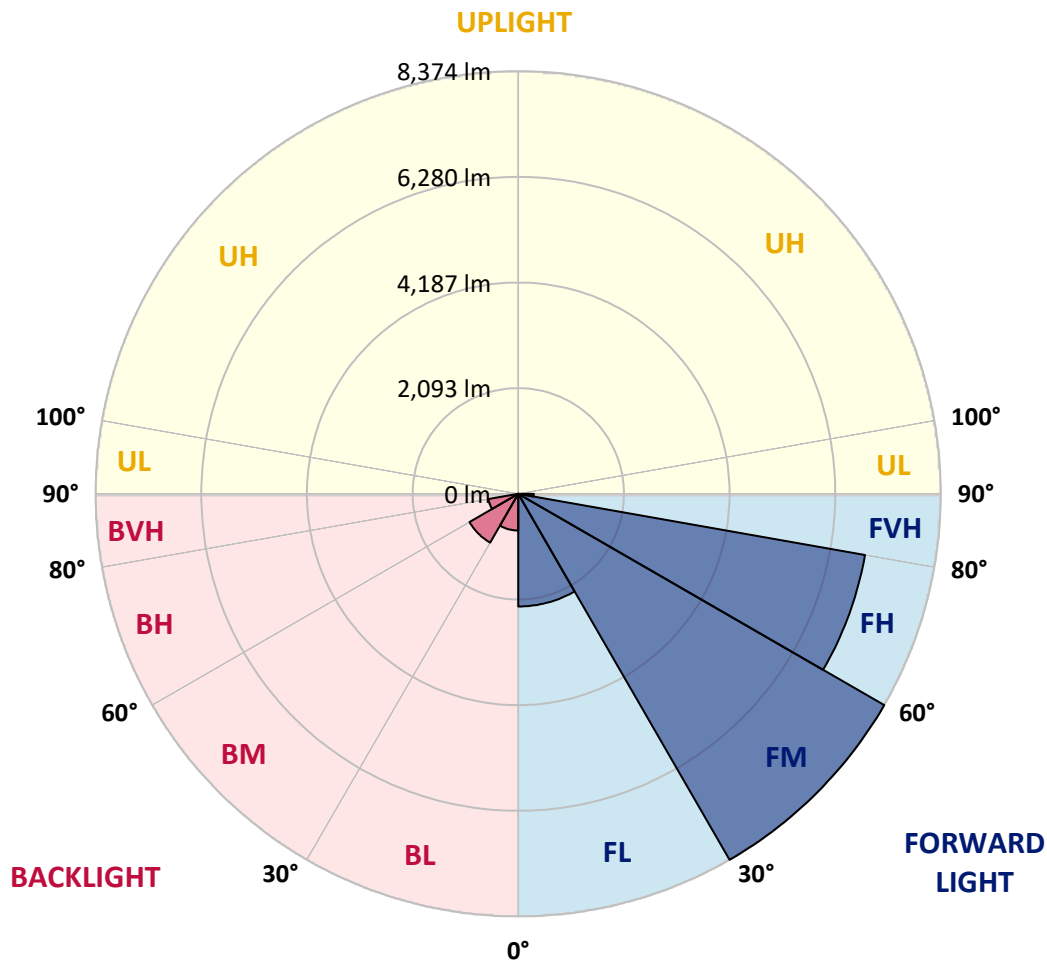
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.3	11.0			
FM (30°-60°)	8373.6	41.1			
FH (60°-80°)	6976.3	34.3			G3/7500
FVH (80°-90°)	307.4	1.5			G3/500
BL (0°-30°)	727.6	3.6	B2/1000		
BM (30°-60°)	1115.5	5.5	B2/2500		
BH (60°-80°)	600.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	19.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0
2.5°	7259.6	7203.7	7142.0	6940.4	6753.4	6539.3	6364.8	6243.3	6091.0	5893.3	5843.2
5°	7207.5	7147.7	6953.9	6505.6	6113.1	5731.3	5363.0	5147.0	4878.9	4607.0	4539.5
7.5°	6683.9	6621.3	6341.7	5727.4	5199.1	4647.5	4169.3	3873.3	3570.5	3321.7	3189.6
10°	6139.2	6070.7	5756.4	5011.0	4360.2	3861.7	3510.7	3228.2	2941.8	2675.7	2463.6
12.5°	5764.1	5674.4	5333.1	4488.4	3921.5	3583.0	3255.2	2916.8	2529.1	2243.7	2010.4
15°	5606.9	5504.7	5144.1	4286.9	3766.2	3369.0	2941.8	2526.2	2072.1	1745.2	1531.2
17.5°	5728.4	5595.3	5208.7	4273.4	3571.5	3030.5	2490.6	2002.7	1510.0	1179.2	1026.9
20°	6141.1	5966.6	5475.8	4269.6	3335.2	2628.5	1943.9	1392.3	995.1	800.3	720.3
22.5°	6791.0	6560.5	5859.5	4300.4	3091.3	2206.1	1403.9	945.9	747.3	646.0	598.8
25°	7575.8	7308.8	6412.0	4409.4	2877.2	1795.4	1020.1	747.3	630.6	556.4	516.8
27.5°	8322.2	8105.2	7110.1	4566.5	2711.4	1463.7	828.3	633.5	539.0	489.8	458.0
30°	9067.5	8794.6	7826.5	4753.6	2511.8	1239.0	728.0	577.6	483.1	431.0	410.8
32.5°	9609.4	9382.8	8387.7	4888.6	2298.7	1092.5	650.8	528.4	451.3	398.2	368.3
35°	10246.7	9990.2	8868.9	4918.5	2161.8	999.9	585.3	475.4	391.5	344.2	312.4
37.5°	10935.2	10616.0	9424.3	4852.9	2054.7	954.6	536.1	451.3	365.4	317.2	283.5
40°	11696.9	11336.3	9957.5	4758.4	1949.6	939.1	498.5	432.9	345.2	296.0	261.3
42.5°	12499.1	12073.9	10419.3	4659.1	1883.1	886.1	494.6	414.6	329.8	276.7	242.0
45°	13173.1	12742.1	10893.7	4626.3	1835.9	828.3	511.0	402.1	319.2	261.3	227.6
47.5°	13710.2	13302.3	11379.7	4699.6	1808.9	775.2	465.7	418.5	313.4	247.8	215.0
50°	14351.4	13889.5	12064.3	4918.5	1769.3	722.2	421.4	479.2	313.4	239.1	204.4
52.5°	15155.6	14698.5	12827.9	5257.9	1690.3	648.9	378.9	480.2	316.3	227.6	190.9
55°	16167.0	15835.3	13918.5	5630.1	1564.0	540.9	327.8	412.7	304.7	206.3	178.4
57.5°	17137.0	16866.1	14912.6	5884.6	1395.2	422.3	285.4	332.7	278.7	181.3	159.1
59°	17402.2	17106.2	15277.0	5896.2	1268.9	368.3	264.2	274.8	272.9	169.7	147.5
60°	17402.2	17087.8	15382.1	5834.5	1177.3	338.4	250.7	244.9	284.4	162.0	140.8
62.5°	17086.9	16645.3	15040.8	5417.0	960.4	288.3	218.9	202.5	255.5	145.6	124.4
65°	16431.2	15788.1	13878.0	4662.0	856.2	264.2	189.0	165.8	177.4	128.2	109.0
67.5°	15337.8	14466.1	12201.2	3766.2	814.8	257.4	163.0	140.8	134.0	109.9	95.5
70°	13412.3	12445.1	10165.7	2961.1	779.1	254.6	136.9	118.6	108.0	92.6	81.0
72.5°	9761.7	8753.2	7217.2	2315.1	757.9	260.3	109.9	99.3	88.7	72.3	62.7
75°	5583.8	4923.3	4056.5	1529.2	646.0	248.8	84.9	82.9	63.6	52.1	43.4
77.5°	2884.9	2797.2	2430.8	587.2	309.5	109.0	55.9	48.2	37.6	31.8	26.0
80°	1244.8	1231.3	1065.5	169.7	82.0	60.7	31.8	20.2	17.4	13.5	10.6
82.5°	430.0	430.0	378.9	56.9	36.6	29.9	3.9	0.0	0.0	0.0	0.0
85°	86.8	97.4	68.5	0.0	12.5	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°	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0
2.5°	5782.4	5665.7	5658.0	5584.7	5493.1	5451.7	5427.6	5470.0	5522.1	5527.9	5606.0
5°	4488.4	4366.0	4417.1	4286.9	4312.9	4286.9	4244.5	4252.2	4275.3	4203.0	4292.7
7.5°	3152.0	3059.5	3118.3	3083.6	3129.8	3148.2	3122.1	3083.6	2969.8	2956.3	3034.4
10°	2375.8	2270.7	2208.1	2142.5	2157.0	2186.8	2177.2	2149.2	2076.9	2080.8	2156.0
12.5°	1909.1	1791.5	1667.1	1506.1	1466.6	1488.8	1466.6	1450.2	1380.8	1386.5	1453.1
15°	1448.3	1351.8	1221.7	1092.5	1022.1	1028.8	967.1	923.7	880.3	828.3	868.8
17.5°	977.7	918.9	880.3	841.8	757.9	738.6	660.5	576.6	543.8	519.7	537.1
20°	692.3	660.5	645.1	643.1	594.9	570.8	494.6	442.6	426.2	421.4	432.0
22.5°	578.5	555.4	533.2	520.7	496.6	468.6	410.8	384.7	373.2	367.4	375.1
25°	503.3	486.0	462.8	441.6	432.0	402.1	360.6	341.3	333.6	327.8	331.7
27.5°	447.4	432.0	405.0	391.5	383.8	357.7	322.0	306.6	299.9	297.9	297.0
30°	403.0	388.6	363.5	348.1	334.6	311.4	290.2	274.8	268.1	266.1	264.2
32.5°	358.7	347.1	330.7	315.3	300.8	279.6	261.3	248.8	238.2	236.2	235.3
35°	302.8	291.2	282.5	281.6	268.1	247.8	234.3	217.9	209.2	206.3	207.3
37.5°	269.0	253.6	234.3	241.1	237.2	222.7	204.4	188.0	179.3	177.4	177.4
40°	247.8	231.4	209.2	197.7	209.2	206.3	177.4	161.0	152.3	151.4	149.5
42.5°	227.6	211.2	186.1	166.8	172.6	181.3	153.3	137.9	129.2	127.3	124.4
45°	213.1	195.7	167.8	145.6	134.0	152.3	131.1	111.8	107.0	103.2	101.2
47.5°	199.6	183.2	151.4	126.3	107.0	109.9	105.1	91.6	85.8	82.0	81.0
50°	188.0	170.7	136.9	108.0	88.7	81.0	84.9	72.3	67.5	63.6	61.7
52.5°	174.5	158.1	121.5	93.5	74.2	63.6	64.6	56.9	52.1	49.2	48.2
55°	163.9	147.5	109.0	82.0	65.6	52.1	46.3	44.4	41.5	39.5	38.6
57.5°	149.5	134.0	96.4	69.4	55.9	42.4	35.7	35.7	34.7	32.8	31.8
59°	140.8	127.3	88.7	62.7	51.1	36.6	31.8	32.8	31.8	29.9	28.9
60°	134.0	121.5	82.9	57.9	48.2	33.7	28.9	30.9	29.9	28.0	27.0
62.5°	118.6	109.9	71.4	48.2	42.4	27.0	24.1	26.0	26.0	25.1	24.1
65°	104.1	94.5	60.7	40.5	39.5	23.1	19.3	23.1	24.1	22.2	20.2
67.5°	90.6	81.0	53.0	32.8	36.6	18.3	14.5	19.3	26.0	20.2	18.3
70°	77.1	67.5	41.5	26.0	38.6	12.5	11.6	17.4	30.9	22.2	17.4
72.5°	59.8	52.1	28.9	19.3	41.5	8.7	8.7	14.5	34.7	24.1	16.4
75°	41.5	33.7	17.4	11.6	33.7	5.8	5.8	13.5	32.8	22.2	15.4
77.5°	24.1	18.3	5.8	1.0	17.4	0.0	1.0	9.6	23.1	13.5	6.7
80°	8.7	3.9	0.0	0.0	10.6	0.0	0.0	0.0	1.9	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°	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0
2.5°	5626.2	5756.4	5873.0	6049.5	6258.7	6499.8	6707.1	6929.8	7139.1	7225.8	7285.6
5°	4311.0	4472.0	4660.1	4919.4	5264.6	5689.8	6088.1	6538.4	7022.4	7264.4	7492.0
7.5°	3047.9	3211.8	3445.1	3720.9	4138.4	4644.6	5165.3	5787.2	6442.9	6825.7	7202.7
10°	2191.7	2393.2	2611.1	2988.1	3412.4	3892.5	4428.6	5122.9	5853.8	6278.0	6732.2
12.5°	1491.6	1721.1	2050.9	2473.2	2971.7	3442.3	3908.0	4570.4	5418.9	5839.3	6326.2
15°	894.8	1022.1	1371.1	1860.0	2471.3	3057.5	3567.6	4231.9	5136.4	5651.3	6157.5
17.5°	551.5	610.3	800.3	1201.4	1843.6	2585.1	3284.1	4117.2	5176.9	5803.6	6345.5
20°	439.7	462.8	523.6	709.7	1221.7	2064.4	2965.0	4094.1	5507.6	6279.0	6860.4
22.5°	381.8	404.0	444.5	515.9	768.5	1545.6	2662.2	4115.3	5982.0	6991.5	7670.3
25°	336.5	355.8	394.4	453.2	563.1	1088.6	2338.2	4209.8	6600.1	7875.7	8597.0
27.5°	300.8	317.2	352.9	406.9	483.1	759.8	1970.9	4324.5	7332.9	8780.2	9491.7
30°	268.1	282.5	314.3	364.5	419.4	584.3	1567.8	4402.6	8066.6	9491.7	10131.0
32.5°	240.1	250.7	279.6	322.0	364.5	465.7	1191.8	4390.1	8611.4	10083.8	10591.0
35°	211.2	221.8	246.8	283.5	317.2	384.7	937.2	4155.8	9085.8	10698.0	11117.4
37.5°	179.3	192.8	216.9	249.7	272.9	338.4	757.9	3873.3	9567.0	11399.9	11704.6
40°	152.3	165.8	187.1	222.7	237.2	321.1	582.4	3529.0	10107.9	12184.8	12348.7
42.5°	126.3	138.8	161.0	191.9	223.7	276.7	431.0	3135.6	10627.6	12855.9	12935.9
45°	102.2	114.7	137.9	168.7	239.1	229.5	333.6	2714.3	11047.0	13414.2	13440.2
47.5°	81.0	92.6	116.7	159.1	222.7	183.2	238.2	2383.5	11399.0	13850.0	13781.5
50°	62.7	72.3	97.4	182.2	194.8	151.4	180.3	2273.6	11714.3	14120.0	13942.6
52.5°	49.2	57.9	80.0	170.7	151.4	125.3	151.4	2376.8	12146.2	14343.7	14033.2
55°	39.5	48.2	62.7	97.4	103.2	106.1	129.2	2473.2	12891.6	14868.2	14568.3
57.5°	32.8	41.5	51.1	68.5	78.1	89.7	114.7	2483.8	13770.0	15739.9	15456.4
59°	29.9	37.6	46.3	60.7	68.5	82.0	108.0	2426.0	14079.5	16057.1	15915.4
60°	28.0	35.7	43.4	55.9	63.6	77.1	104.1	2371.0	14093.0	16045.5	16111.1
62.5°	24.1	31.8	38.6	47.2	54.0	65.6	93.5	2167.6	13522.2	15520.0	15993.5
65°	21.2	28.0	34.7	40.5	46.3	58.8	84.9	1796.3	12547.3	14672.5	15188.3
67.5°	19.3	24.1	31.8	35.7	41.5	52.1	75.2	1280.5	11329.5	13635.9	13970.5
70°	17.4	23.1	28.9	32.8	37.6	45.3	64.6	735.7	9567.0	12118.3	12356.4
72.5°	16.4	22.2	26.0	30.9	33.7	40.5	58.8	346.2	7005.0	9707.7	10329.7
75°	14.5	20.2	24.1	28.9	31.8	36.6	50.1	165.8	4659.1	7025.3	7732.1
77.5°	8.7	16.4	22.2	26.0	28.0	31.8	41.5	95.5	2973.6	4862.5	5727.4
80°	0.0	5.8	16.4	22.2	24.1	27.0	31.8	75.2	1591.0	2777.9	3334.3
82.5°	0.0	0.0	11.6	17.4	16.4	18.3	24.1	47.2	717.4	1815.6	2046.1
85°	0.0	0.0	3.9	13.5	11.6	8.7	16.4	16.4	157.2	918.9	1146.5
87.5°	0.0	0.0	0.0	1.0	5.8	3.9	6.7	1.9	1.0	68.5	277.7
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: P324592

CATALOG NUMBER: GLEON-SA8A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0	6630.0
2.5°	7494.9	7566.2	7686.7	7743.6	7715.7	7597.1	7455.3	7310.7	7225.8	7259.6
5°	7955.7	8323.1	8535.2	8605.6	8488.0	8221.9	7873.8	7414.8	7251.9	7207.5
7.5°	7955.7	8647.1	9084.8	9162.0	8899.7	8378.1	7725.3	7008.9	6770.7	6683.9
10°	7676.1	8617.2	9227.6	9350.0	8983.6	8203.6	7329.0	6511.4	6228.8	6139.2
12.5°	7360.8	8374.2	9017.4	9186.1	8885.3	8030.0	7054.2	6174.8	5842.2	5764.1
15°	7167.0	8075.3	8607.6	8730.0	8602.7	7928.8	6988.6	6073.6	5682.1	5606.9
17.5°	7236.4	7843.9	8035.8	8107.1	8192.9	7893.1	7167.0	6295.4	5799.8	5728.4
20°	7497.7	7600.0	7500.6	7590.3	7821.7	7927.8	7592.2	6831.5	6236.6	6141.1
22.5°	7941.3	7473.6	7195.0	7230.7	7512.2	8042.5	8242.1	7597.1	6910.5	6791.0
25°	8458.1	7575.8	7025.3	6993.5	7282.7	8193.9	8836.1	8430.1	7707.9	7575.8
27.5°	9108.0	7805.3	6990.6	6958.7	7202.7	8335.7	9329.8	9253.6	8547.8	8322.2
30°	9609.4	8031.0	7093.7	7020.5	7282.7	8434.0	9726.1	9952.6	9216.9	9067.5
32.5°	9969.0	8297.1	7261.5	7155.4	7508.4	8603.7	10031.7	10592.9	9836.0	9609.4
35°	10242.9	8586.3	7532.5	7357.9	7818.8	8861.1	10318.1	11274.6	10494.5	10246.7
37.5°	10499.4	8992.3	7955.7	7747.5	8305.8	9275.8	10620.8	12047.9	11231.2	10935.2
40°	10857.1	9452.2	8608.5	8423.4	9124.4	9840.8	10998.8	12854.0	12069.1	11696.9
42.5°	11214.8	9945.9	9276.7	9326.9	10145.5	10527.3	11486.7	13706.3	12896.4	12499.1
45°	11541.7	10455.0	10228.4	10459.8	11093.3	11280.4	11971.7	14199.1	13556.9	13173.1
47.5°	11832.9	11091.4	11174.3	11790.4	12171.3	11962.1	12334.3	14624.3	14048.6	13710.2
50°	12171.3	11914.8	12421.0	13292.7	13412.3	12579.2	12664.0	15127.6	14623.3	14351.4
52.5°	12541.6	12782.6	13801.8	14570.3	14531.7	13249.3	12995.7	15691.7	15411.1	15155.6
55°	12962.0	13483.6	15017.7	15765.9	15733.1	13997.5	13545.3	16388.8	16398.4	16167.0
57.5°	13585.8	14087.2	15843.0	16733.0	16788.0	14861.5	14476.7	17169.8	17291.3	17137.0
59°	14033.2	14478.7	16169.9	17137.0	17360.7	15529.7	15157.5	17623.0	17543.0	17402.2
60°	14364.9	14727.4	16331.9	17348.2	17693.4	15982.9	15659.8	17889.1	17572.8	17402.2
62.5°	15185.4	15269.3	16624.1	17587.3	18076.2	16989.5	17073.4	18342.3	17365.5	17086.9
65°	15568.2	15611.6	16620.2	17159.2	17705.9	17773.4	18355.8	18355.8	16859.3	16431.2
67.5°	15408.2	15198.9	15795.8	15739.9	16285.6	17307.7	18837.9	17682.8	15891.3	15337.8
70°	14106.5	13301.4	13036.2	13060.3	13477.8	15054.3	17883.3	15702.3	14059.2	13412.3
72.5°	11737.4	9806.1	9151.4	9898.6	10007.6	11569.6	15240.4	11825.2	10368.2	9761.7
75°	9440.6	6912.5	5848.0	6636.7	6821.8	8466.8	11789.5	7364.7	6056.2	5583.8
77.5°	6782.3	4961.9	4196.3	4141.3	4380.4	5369.7	8365.5	3706.4	3091.3	2884.9
80°	3853.0	3265.8	3516.5	3317.9	3438.4	3357.4	3974.5	1625.7	1331.6	1244.8
82.5°	2325.7	1930.4	2090.4	1740.4	2202.3	1917.8	1531.2	520.7	452.2	430.0
85°	1512.9	1054.9	549.6	368.3	758.8	1225.5	342.3	141.7	109.0	86.8
87.5°	521.6	269.0	27.0	11.6	81.0	228.5	12.5	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)