

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: P324268

Luminaire Tested: **GLEON-SA4A-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4A-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10245 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

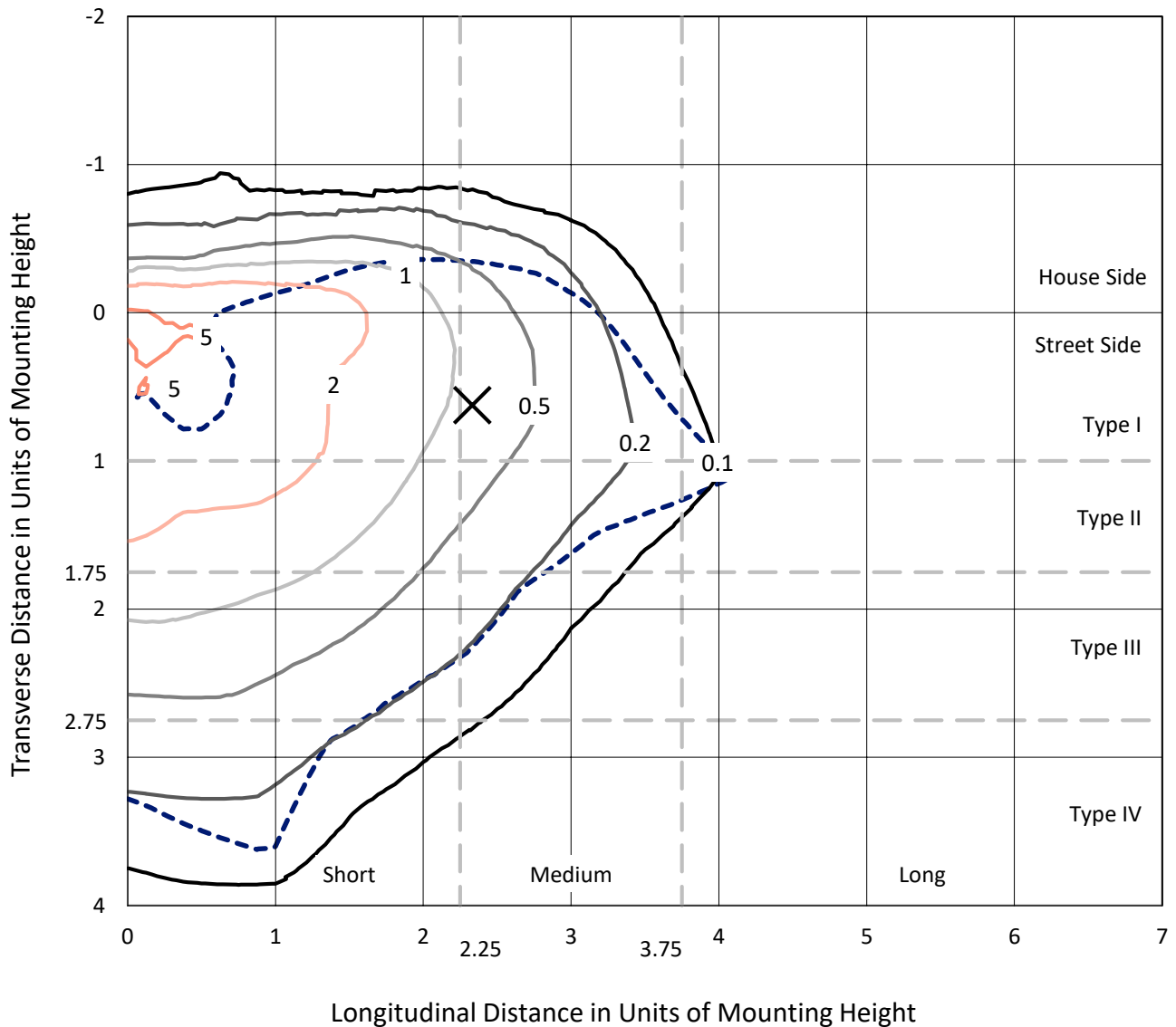
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

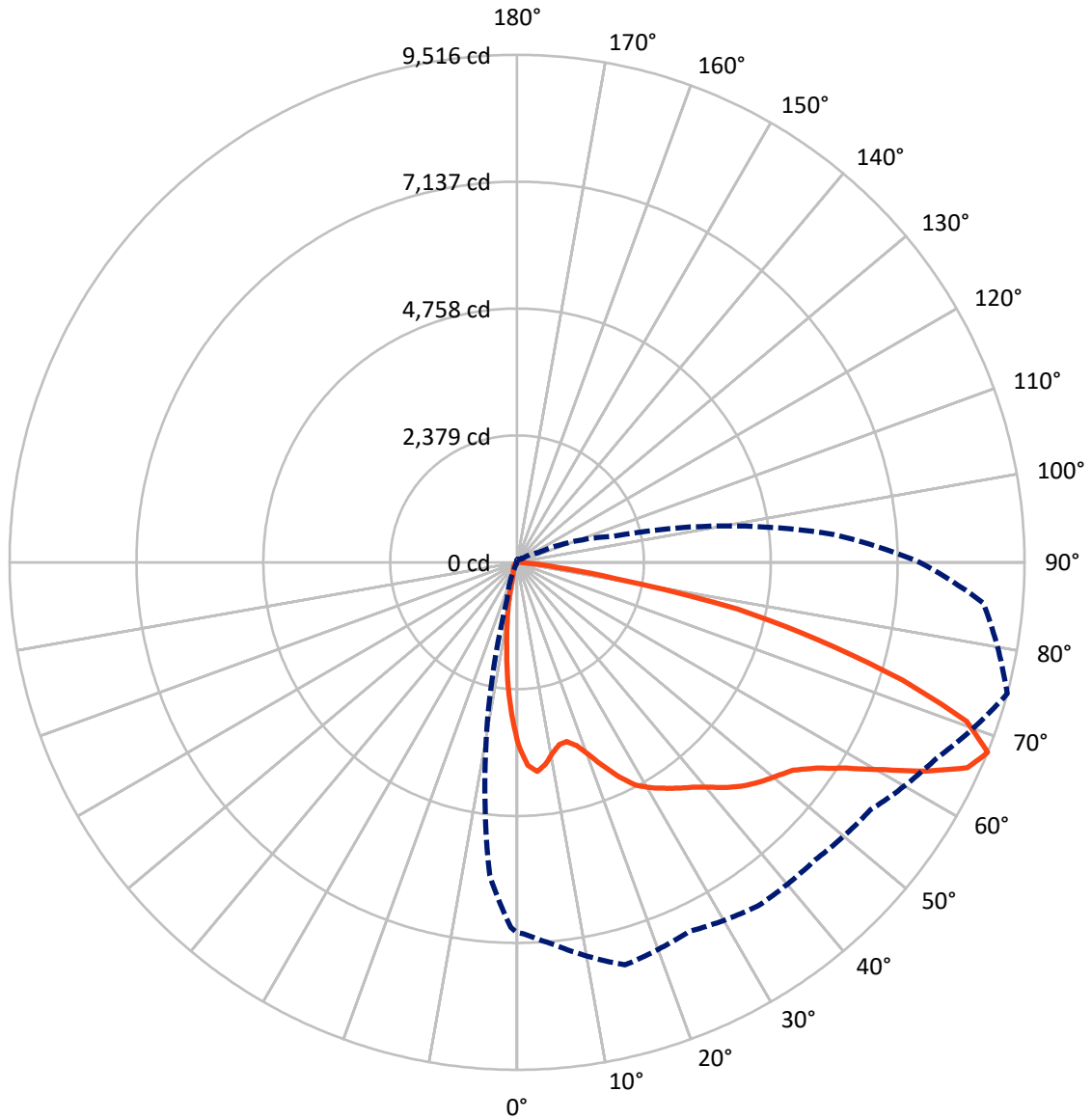
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1537.4	0.0	1537.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	8707.6	0.0	8707.6
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	10245.0	0.0	10245.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.7	2.5
10°-20°	513.3	5.0
20°-30°	726.2	7.1
30°-40°	1067.8	10.4
40°-50°	1534.8	15.0
50°-60°	2160.5	21.1
60°-70°	2523.3	24.6
70°-80°	1287.3	12.6
80°-90°	171.0	1.7
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°	10245.0	100.0
0°-180°	10245.0	100.0

**Coefficient of Utilization**

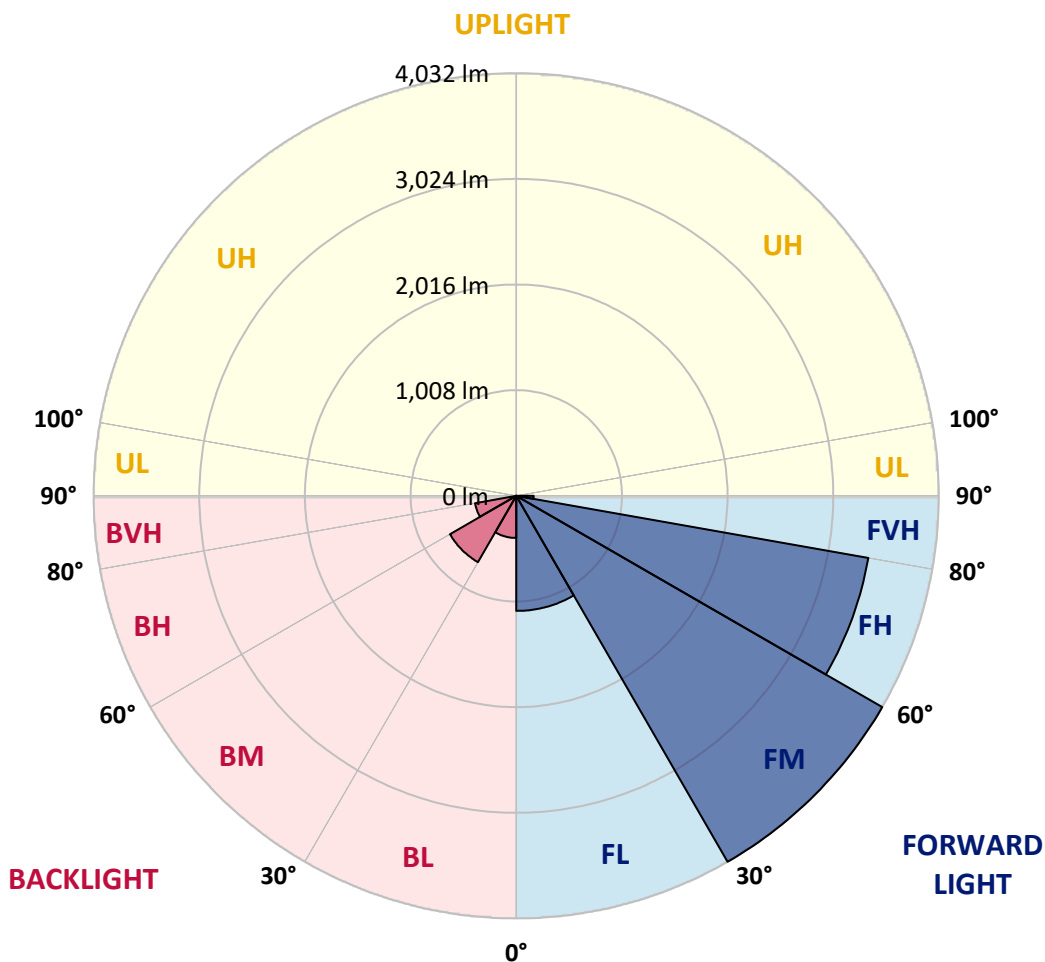


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.3	10.7			
FM (30°-60°)	4032.3	39.4			
FH (60°-80°)	3411.3	33.3			G2/5000
FVH (80°-90°)	165.8	1.6			G2/225
BL (0°-30°)	402.0	3.9	B1/500		
BM (30°-60°)	730.8	7.1	B1/1000		
BH (60°-80°)	399.3	3.9	B1/500		G1/500
BVH (80°-90°)	5.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3725.8	3731.6	3761.7	3831.6	3907.8	3913.6	3965.0	3912.1	3894.2	3808.8	3720.4
5°	3753.9	3776.3	3879.6	4084.9	4263.0	4320.3	4361.1	4257.2	4148.0	3939.3	3716.6
7.5°	3527.3	3564.7	3727.2	4112.6	4431.0	4571.7	4598.4	4435.8	4168.4	3824.8	3489.9
10°	3237.1	3279.8	3475.8	3949.5	4386.8	4628.0	4664.9	4451.8	4067.5	3639.4	3244.8
12.5°	3002.2	3052.2	3252.6	3766.1	4234.9	4501.8	4574.6	4398.0	3980.1	3507.9	3077.4
15°	2894.0	2951.2	3161.8	3647.7	4066.5	4276.6	4336.8	4260.6	3931.6	3487.0	3038.6
17.5°	2956.1	3018.2	3235.6	3657.8	3908.3	3998.0	4046.6	4077.6	3931.6	3612.7	3152.1
20°	3210.9	3277.8	3507.9	3761.2	3777.2	3743.7	3795.7	3904.9	3977.2	3851.5	3424.9
22.5°	3563.2	3641.8	3901.5	3938.4	3713.2	3586.5	3593.3	3764.6	4060.2	4154.3	3803.4
25°	3992.7	4088.8	4352.8	4202.4	3739.9	3492.8	3490.4	3649.1	4141.2	4457.6	4225.2
27.5°	4419.3	4525.1	4757.1	4524.6	3850.0	3475.8	3471.0	3614.2	4220.3	4727.5	4685.7
30°	4777.0	4879.9	5079.8	4758.1	3968.9	3515.6	3492.3	3651.5	4267.4	4902.7	5021.6
32.5°	5068.2	5150.7	5312.3	4918.7	4096.1	3592.8	3542.3	3751.5	4347.5	5050.7	5330.2
35°	5388.5	5475.4	5539.9	5071.6	4238.8	3703.9	3631.6	3910.2	4470.7	5201.2	5668.5
37.5°	5753.9	5840.3	5832.6	5211.3	4419.8	3887.9	3841.8	4161.6	4662.5	5350.1	6046.1
40°	6111.6	6199.9	6136.8	5364.2	4632.4	4191.2	4157.2	4539.2	4919.2	5540.9	6488.7
42.5°	6446.5	6542.1	6407.2	5508.8	4885.7	4573.6	4631.9	5025.5	5240.5	5775.8	6870.2
45°	6716.3	6813.9	6633.8	5649.6	5152.6	5037.6	5212.8	5564.2	5626.8	5974.3	7127.9
47.5°	6912.4	7004.6	6791.1	5790.3	5494.3	5604.9	5910.2	6129.1	5975.7	6146.6	7310.8
50°	7037.6	7109.4	6837.2	5966.5	5942.7	6266.9	6636.7	6743.5	6304.3	6301.9	7533.1
52.5°	7117.2	7149.7	6871.1	6150.4	6410.6	6987.6	7348.2	7381.7	6642.5	6472.7	7832.5
55°	7391.4	7417.6	7111.9	6373.2	6797.4	7619.0	7991.7	7960.7	7025.5	6807.1	8185.9
57.5°	7859.2	7886.9	7609.3	6693.5	7110.4	8009.2	8458.1	8513.9	7474.4	7276.9	8564.4
60°	8094.1	8145.6	8046.6	7099.2	7413.7	8258.7	8776.0	8954.1	8035.4	7896.1	8931.3
62.5°	7881.1	7955.8	8099.5	7549.1	7715.1	8396.0	8875.0	9111.8	8610.0	8617.8	9157.5
65°	7455.9	7515.6	7759.3	7795.7	7889.8	8379.0	8630.4	8891.5	8961.9	9280.7	9145.3
67.5°	6942.5	6964.8	7171.5	7815.1	7636.5	7868.5	7895.6	8088.8	8683.8	9515.6	8777.9
70°	6203.3	6215.5	6396.0	7165.2	6562.5	6613.4	6573.1	6612.5	7465.6	8943.4	7850.5
72.5°	4992.5	5023.0	5279.8	5950.5	4780.9	4633.8	4950.2	4932.8	5749.6	7555.9	5830.6
75°	3675.8	3728.7	4116.5	4793.0	3355.5	3035.2	3266.2	3327.8	4087.3	5844.7	3646.2
77.5°	2573.6	2613.0	2988.6	3523.4	2428.5	2170.3	2086.9	2160.2	2697.9	4228.1	1836.9
80°	1482.6	1497.2	1737.0	2034.5	1636.5	1872.4	1696.2	1746.7	1616.6	1881.1	790.1
82.5°	970.2	972.6	1066.2	1210.9	1019.2	1184.2	876.5	1120.6	994.4	755.6	257.2
85°	524.1	527.1	618.3	859.5	577.0	326.1	191.7	393.6	614.9	173.3	70.4
87.5°	57.8	52.9	186.4	312.5	160.2	29.6	10.2	44.2	98.5	11.2	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°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3675.3	3635.0	3534.6	3428.3	3342.9	3262.8	3182.2	3083.7	3007.5	2992.0	2966.7
5°	3596.7	3469.1	3258.4	3046.8	2876.5	2661.5	2525.1	2418.8	2315.0	2308.7	2287.8
7.5°	3322.0	3154.1	2857.6	2564.9	2325.2	2120.4	1913.6	1775.3	1666.6	1628.2	1605.4
10°	3058.0	2869.2	2498.9	2165.0	1951.0	1770.0	1624.4	1479.7	1348.7	1258.4	1217.7
12.5°	2873.6	2664.9	2256.7	1968.9	1815.6	1643.8	1466.1	1285.6	1134.7	1026.0	959.5
15°	2802.2	2579.5	2175.7	1891.3	1702.0	1484.6	1257.5	1051.2	883.8	785.2	725.6
17.5°	2887.2	2628.0	2169.4	1796.6	1532.1	1261.8	1010.9	767.3	609.6	534.8	496.5
20°	3102.6	2782.3	2166.9	1680.7	1330.3	997.8	684.8	504.7	409.1	367.4	349.4
22.5°	3407.4	2979.4	2186.4	1566.1	1120.1	712.9	472.7	370.8	321.8	299.4	289.2
25°	3799.6	3256.0	2241.2	1462.3	922.6	531.9	368.4	310.6	276.1	258.7	251.4
27.5°	4217.4	3574.4	2326.6	1372.0	761.9	424.2	315.5	266.0	241.2	229.1	222.3
30°	4562.0	3943.2	2413.0	1271.5	645.5	369.8	288.8	242.7	214.0	206.3	200.0
32.5°	4863.4	4222.3	2474.2	1180.8	569.3	328.6	261.1	216.9	197.5	182.5	175.7
35°	5175.4	4454.7	2472.2	1117.2	516.9	297.5	237.8	194.1	170.8	153.4	148.0
37.5°	5513.2	4717.3	2430.0	1062.8	494.1	272.7	224.7	182.0	158.7	141.2	134.4
40°	5908.7	4993.0	2386.8	1011.9	487.7	252.9	215.5	172.3	147.5	130.6	123.8
42.5°	6294.1	5241.4	2348.9	974.0	460.6	252.4	207.2	165.0	138.8	122.3	114.5
45°	6602.3	5472.9	2341.7	951.2	431.9	261.1	202.9	160.2	132.0	115.5	108.2
47.5°	6858.5	5724.3	2388.3	935.2	404.8	238.3	213.5	156.8	125.7	109.7	101.4
50°	7163.3	6033.0	2497.9	909.0	376.1	214.5	244.6	157.7	120.4	103.9	95.1
52.5°	7588.4	6460.1	2659.1	864.8	336.8	192.7	240.7	158.7	114.5	97.5	88.8
55°	8065.0	6993.4	2832.3	791.6	282.0	164.0	206.3	151.9	103.4	90.8	82.5
57.5°	8565.9	7477.3	2935.2	704.2	224.2	141.7	165.0	138.3	91.2	81.5	76.2
60°	8644.5	7661.2	2888.1	596.9	178.1	123.3	122.3	140.7	81.5	71.8	67.9
62.5°	8448.9	7430.2	2660.5	501.3	149.0	108.2	100.5	122.8	73.8	64.1	60.2
65°	8072.8	6805.6	2291.7	451.8	138.3	92.7	83.5	86.4	64.5	55.8	52.4
67.5°	7549.6	5971.8	1881.6	423.7	136.9	79.6	71.3	65.5	55.8	48.5	45.6
70°	6480.0	4975.0	1501.1	408.2	133.0	67.0	60.2	53.4	46.6	41.3	38.8
72.5°	4769.2	3525.4	1167.7	391.2	133.9	53.4	52.4	44.2	37.4	32.0	31.1
75°	2755.6	2014.1	765.8	316.9	127.6	41.3	43.7	31.1	26.2	22.3	22.3
77.5°	1468.6	1228.3	291.7	132.0	46.6	26.2	24.8	18.4	16.5	13.6	13.1
80°	640.1	540.6	87.8	36.9	25.7	14.1	9.2	8.3	7.3	5.8	5.3
82.5°	226.6	195.6	28.6	18.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.4	36.9	0.0	4.4	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°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	2915.3	2904.6	2841.5	2844.0	2855.1	2871.1	2833.3	2850.8	2897.8	2943.0	2960.0
5°	2254.3	2256.7	2218.4	2242.2	2263.5	2278.1	2216.9	2217.9	2255.3	2306.2	2332.9
7.5°	1588.4	1584.6	1586.5	1643.3	1683.6	1654.4	1677.3	1598.2	1603.0	1639.4	1612.2
10°	1180.8	1127.4	1097.3	1140.0	1184.2	1168.2	1128.8	1103.1	1121.1	1161.4	1158.5
12.5°	927.9	851.2	806.1	775.5	811.9	781.8	780.9	758.6	734.3	738.7	803.2
15°	697.9	642.1	588.7	539.7	538.7	528.5	476.6	418.3	413.5	416.4	449.9
17.5°	480.0	461.1	439.2	397.0	385.8	343.1	292.6	269.4	257.7	263.0	274.2
20°	337.3	330.0	332.4	309.6	293.6	252.9	223.2	214.0	212.1	217.4	222.8
22.5°	279.5	266.4	265.0	254.8	238.8	209.2	193.2	187.8	185.4	190.2	194.1
25°	244.6	231.5	226.2	219.8	202.9	182.5	172.8	167.9	165.5	168.4	170.8
27.5°	215.5	203.3	198.5	194.1	177.6	163.1	155.3	150.9	149.0	150.0	152.4
30°	193.6	183.0	176.7	171.3	157.2	147.1	140.3	135.9	133.9	133.9	136.4
32.5°	170.8	165.0	159.2	152.4	139.3	132.5	125.7	120.8	118.9	119.4	121.3
35°	142.2	140.3	141.7	135.4	124.2	118.4	111.6	106.3	104.8	105.3	107.3
37.5°	126.2	117.4	122.8	119.4	113.1	105.3	96.6	91.7	89.3	90.8	91.7
40°	116.0	105.3	101.4	104.8	103.9	91.2	83.5	78.6	76.7	77.2	78.1
42.5°	107.3	94.6	85.9	85.4	91.2	79.6	71.3	67.0	64.5	64.5	65.5
45°	99.0	85.4	74.7	66.5	76.7	67.5	59.7	55.8	52.9	52.9	53.4
47.5°	92.7	77.7	65.0	54.4	57.8	55.3	49.0	45.1	42.2	42.2	42.7
50°	86.9	69.9	56.3	45.6	43.2	45.6	39.8	35.4	33.5	33.0	34.0
52.5°	80.6	62.1	48.0	38.8	34.0	34.5	31.1	28.1	25.7	25.7	26.7
55°	74.3	55.8	41.7	33.0	28.1	25.7	24.8	22.8	20.9	20.9	21.8
57.5°	67.9	49.0	35.4	27.2	22.3	20.4	20.4	18.9	17.5	17.5	18.4
60°	62.1	42.2	29.1	22.3	17.5	17.0	17.5	16.0	15.0	15.0	16.0
62.5°	55.3	35.9	23.8	18.4	14.1	13.6	15.0	14.1	13.1	13.1	14.1
65°	47.1	30.6	18.9	14.1	10.7	10.7	12.6	11.6	10.7	10.7	11.6
67.5°	39.8	25.7	14.6	10.2	7.8	8.3	10.7	9.7	9.2	9.2	10.2
70°	33.0	19.9	10.2	6.3	4.4	6.3	8.3	8.3	8.3	8.3	9.2
72.5°	24.8	13.6	5.8	2.4	1.9	4.4	6.8	7.8	7.3	7.3	8.7
75°	16.0	7.8	1.9	0.0	0.0	2.4	5.3	6.3	6.3	5.8	7.3
77.5°	9.2	2.4	0.0	0.0	0.0	0.0	3.4	2.9	2.4	1.9	3.4
80°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P324268

CATALOG NUMBER: GLEON-SA4A-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3028.4	3085.7	3166.2	3251.6	3383.2	3487.5	3589.9	3677.7	3711.7	3725.8
5°	2397.0	2480.9	2598.9	2750.3	2987.6	3201.2	3417.6	3635.5	3730.2	3753.9
7.5°	1720.0	1827.2	1977.2	2166.9	2445.0	2721.7	3024.0	3343.8	3490.4	3527.3
10°	1273.0	1404.0	1575.8	1775.8	2041.2	2325.6	2655.2	3020.6	3188.1	3237.1
12.5°	903.2	1080.3	1310.4	1553.5	1783.5	2037.4	2370.8	2773.6	2949.3	3002.2
15°	530.5	701.8	974.0	1299.7	1594.3	1851.5	2190.2	2646.9	2840.6	2894.0
17.5°	304.3	389.7	595.5	958.5	1358.4	1714.6	2133.5	2678.5	2906.6	2956.1
20°	232.5	259.6	343.1	617.3	1082.7	1580.2	2133.5	2857.1	3138.1	3210.9
22.5°	203.3	223.2	257.2	368.4	796.9	1436.1	2158.2	3115.3	3482.6	3563.2
25°	180.5	198.5	227.6	277.1	543.6	1264.7	2216.9	3432.2	3888.4	3992.7
27.5°	161.6	178.6	204.8	242.7	371.8	1058.0	2296.0	3803.9	4335.8	4419.3
30°	144.6	160.6	184.4	211.1	286.8	823.6	2363.5	4154.3	4687.2	4777.0
32.5°	128.6	143.2	164.5	184.4	234.9	609.1	2370.8	4431.9	4978.9	5068.2
35°	113.6	126.7	146.1	161.6	194.6	481.0	2257.7	4672.6	5270.6	5388.5
37.5°	99.0	111.6	128.6	140.3	171.3	392.1	2084.9	4941.0	5644.7	5753.9
40°	85.4	96.6	114.0	121.8	162.1	301.4	1897.1	5222.5	6011.6	6111.6
42.5°	72.8	83.5	100.5	115.5	142.2	225.2	1694.2	5486.5	6341.7	6446.5
45°	60.7	71.8	88.8	122.3	117.9	168.4	1477.3	5661.7	6602.3	6716.3
47.5°	49.0	61.6	84.9	116.5	94.2	123.8	1305.5	5827.7	6799.8	6912.4
50°	39.3	51.9	95.6	103.9	77.2	94.6	1233.7	5976.2	6929.4	7037.6
52.5°	32.0	43.7	90.3	79.6	64.5	78.1	1272.5	6216.9	7049.2	7117.2
55°	26.7	34.5	54.4	55.3	54.8	66.5	1320.6	6562.5	7359.4	7391.4
57.5°	23.3	27.7	37.9	42.7	46.1	59.2	1321.5	7058.5	7839.3	7859.2
60°	19.9	24.3	31.5	34.5	39.8	52.9	1273.5	7231.7	8028.1	8094.1
62.5°	17.5	21.4	26.2	28.6	33.5	47.6	1160.9	6980.8	7769.0	7881.1
65°	15.5	19.4	21.8	24.3	29.6	42.7	975.5	6479.0	7339.0	7455.9
67.5°	13.6	17.0	19.4	21.8	26.7	37.9	718.3	5896.1	6845.4	6942.5
70°	12.1	15.0	17.5	19.4	23.3	32.0	435.8	5003.1	6163.1	6203.3
72.5°	11.6	13.6	16.0	17.5	20.4	28.1	220.8	3676.8	4926.9	4992.5
75°	10.2	12.1	14.6	15.5	18.0	24.3	89.8	2414.9	3570.5	3675.8
77.5°	8.3	11.2	13.1	14.1	15.5	19.9	45.6	1543.3	2505.7	2573.6
80°	2.9	8.3	11.2	11.6	13.1	14.6	30.1	844.9	1453.5	1482.6
82.5°	0.0	5.3	8.7	8.3	9.2	11.2	19.4	401.8	959.5	970.2
85°	0.0	2.4	6.8	5.3	3.9	7.8	6.8	87.8	503.3	524.1
87.5°	0.0	0.0	0.5	2.4	1.9	2.9	1.0	0.5	45.6	57.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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