

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: P324588

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324588  
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-SA4A-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 10244 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

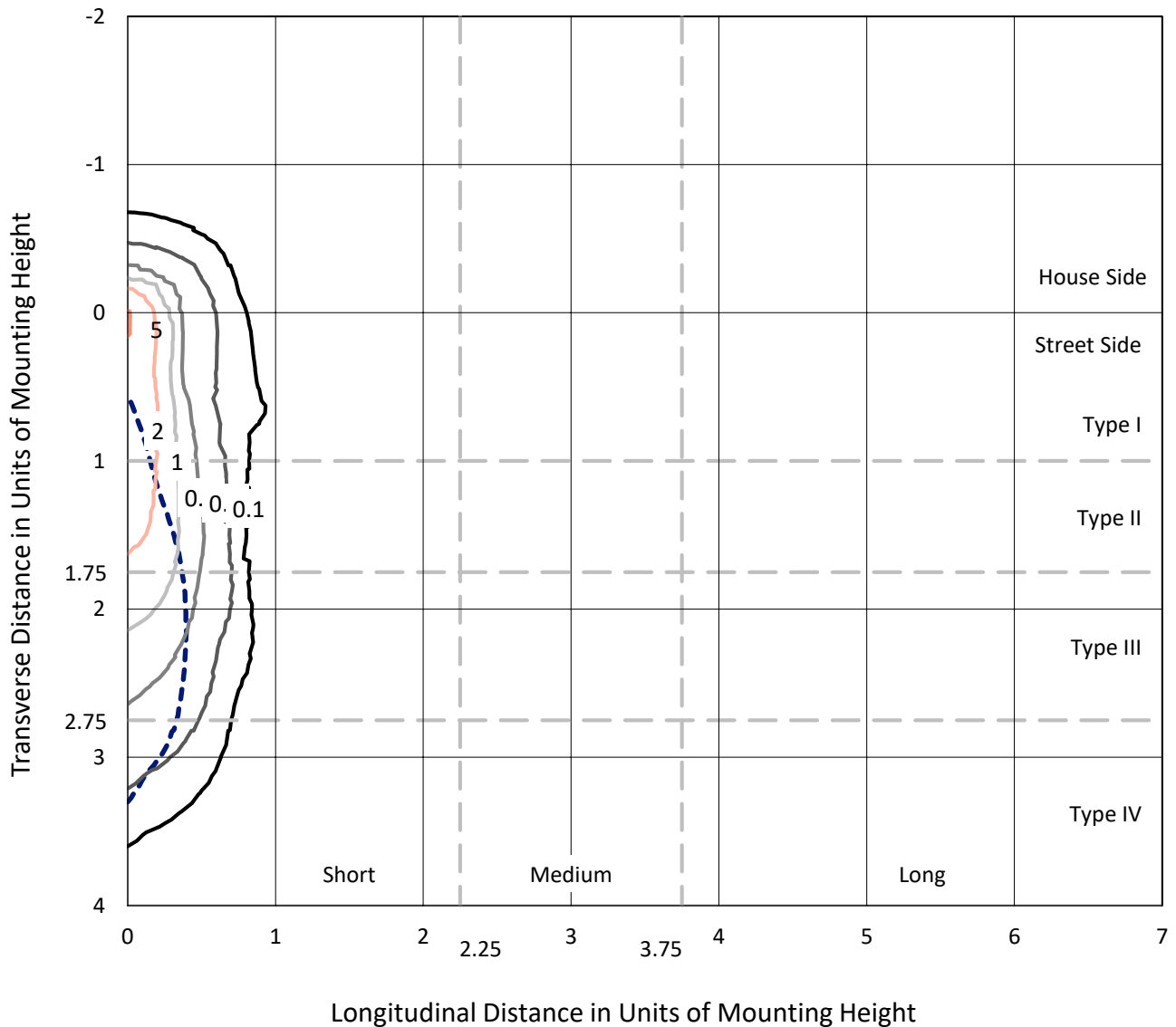
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

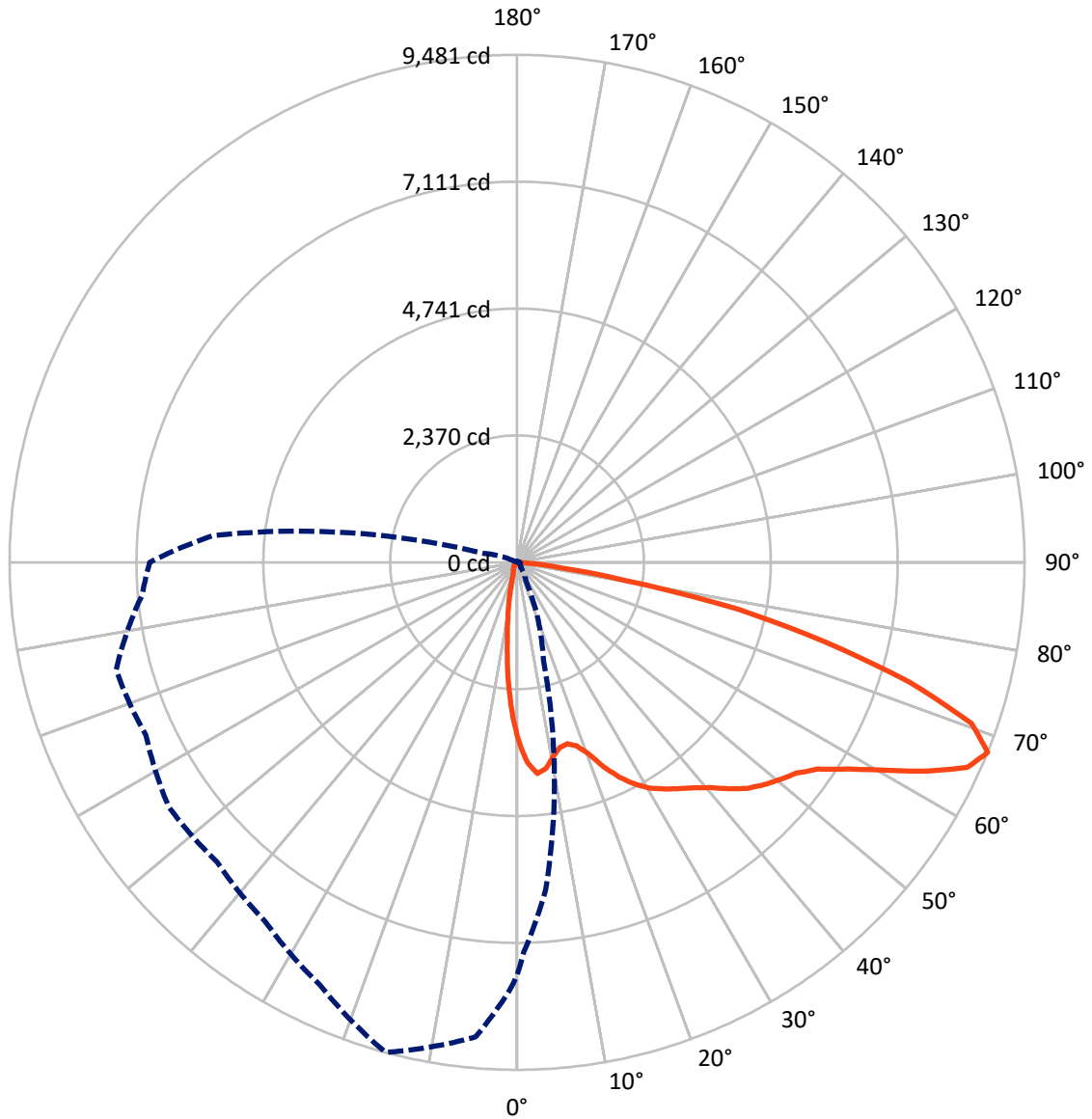
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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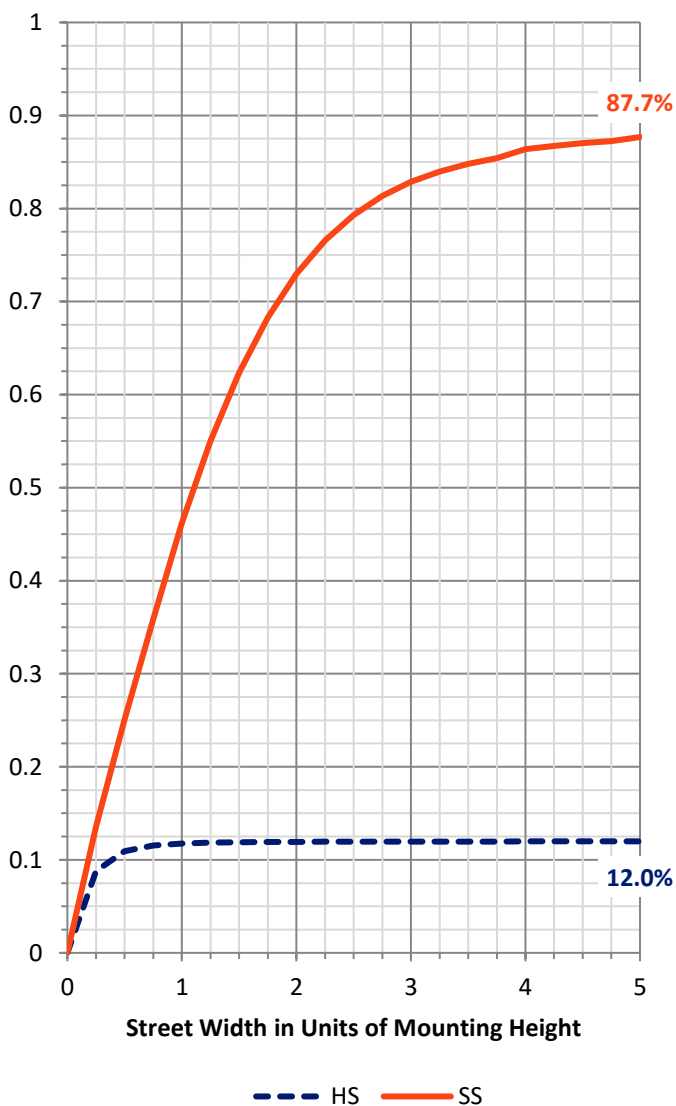
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1239.9	0.0	1239.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	9004.1	0.0	9004.1
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	10244.0	0.0	10244.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.1	2.5
10°-20°	509.8	5.0
20°-30°	723.9	7.1
30°-40°	1069.2	10.4
40°-50°	1542.1	15.1
50°-60°	2164.7	21.1
60°-70°	2523.4	24.6
70°-80°	1290.0	12.6
80°-90°	164.8	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°	10244.0	100.0
0°-180°	10244.0	100.0

**Coefficient of Utilization**

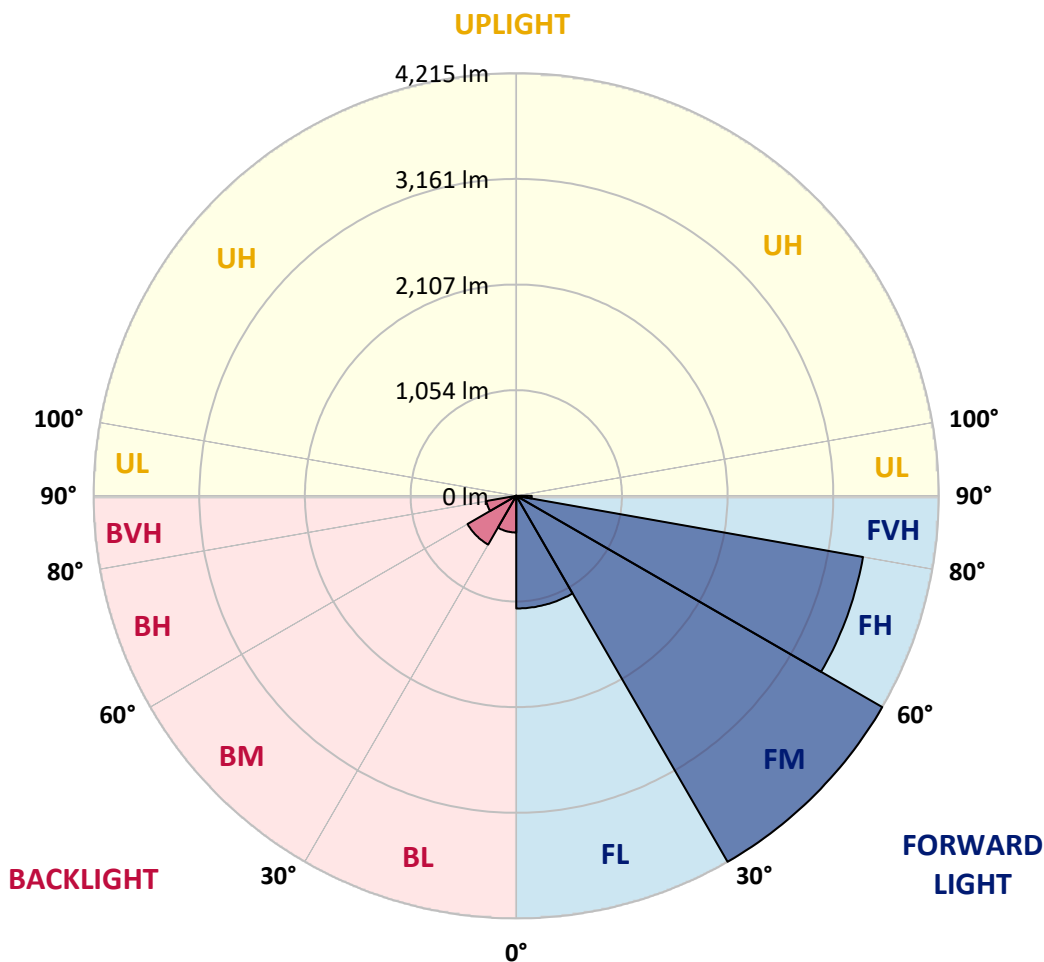


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.6	11.0			
FM (30°-60°)	4214.5	41.1			
FH (60°-80°)	3511.3	34.3			G2/5000
FVH (80°-90°)	154.7	1.5			G2/225
BL (0°-30°)	366.2	3.6	B1/500		
BM (30°-60°)	561.5	5.5	B1/1000		
BH (60°-80°)	302.2	2.9	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0
2.5°	3653.9	3625.7	3594.7	3493.2	3399.1	3291.3	3203.5	3142.4	3065.7	2966.2	2941.0
5°	3627.7	3597.6	3500.0	3274.4	3076.8	2884.7	2699.3	2590.6	2455.6	2318.8	2284.8
7.5°	3364.1	3332.6	3191.9	2882.7	2616.8	2339.2	2098.5	1949.5	1797.1	1671.9	1605.4
10°	3089.9	3055.5	2897.3	2522.1	2194.6	1943.7	1767.0	1624.8	1480.7	1346.7	1240.0
12.5°	2901.2	2856.0	2684.2	2259.1	1973.7	1803.4	1638.4	1468.1	1273.0	1129.3	1011.9
15°	2822.1	2770.6	2589.1	2157.7	1895.6	1695.7	1480.7	1271.5	1042.9	878.4	770.7
17.5°	2883.2	2816.2	2621.6	2150.9	1797.6	1525.3	1253.5	1008.0	760.0	593.5	516.9
20°	3090.9	3003.1	2756.1	2148.9	1678.7	1322.9	978.4	700.8	500.8	402.8	362.5
22.5°	3418.0	3302.0	2949.2	2164.5	1555.9	1110.4	706.6	476.1	376.1	325.2	301.4
25°	3813.0	3678.6	3227.3	2219.3	1448.2	903.6	513.5	376.1	317.4	280.0	260.1
27.5°	4188.7	4079.5	3578.6	2298.4	1364.7	736.7	416.9	318.8	271.3	246.5	230.5
30°	4563.8	4426.5	3939.2	2392.6	1264.2	623.6	366.4	290.7	243.1	216.9	206.7
32.5°	4836.6	4722.5	4221.7	2460.5	1157.0	549.9	327.6	265.9	227.1	200.4	185.4
35°	5157.3	5028.3	4463.8	2475.5	1088.1	503.3	294.6	239.3	197.0	173.3	157.2
37.5°	5503.9	5343.2	4743.4	2442.5	1034.2	480.5	269.8	227.1	183.9	159.7	142.7
40°	5887.2	5705.7	5011.8	2395.0	981.3	472.7	250.9	217.9	173.7	149.0	131.5
42.5°	6291.0	6077.0	5244.2	2345.0	947.8	446.0	249.0	208.7	166.0	139.3	121.8
45°	6630.3	6413.3	5483.0	2328.5	924.0	416.9	257.2	202.4	160.6	131.5	114.5
47.5°	6900.6	6695.3	5727.6	2365.4	910.4	390.2	234.4	210.6	157.7	124.7	108.2
50°	7223.3	6990.8	6072.1	2475.5	890.5	363.5	212.1	241.2	157.7	120.4	102.9
52.5°	7628.0	7398.0	6456.5	2646.4	850.7	326.6	190.7	241.7	159.2	114.5	96.1
55°	8137.1	7970.2	7005.4	2833.7	787.2	272.3	165.0	207.7	153.4	103.9	89.8
57.5°	8625.3	8489.0	7505.7	2961.8	702.2	212.6	143.7	167.4	140.3	91.2	80.1
59°	8758.8	8609.8	7689.2	2967.6	638.7	185.4	133.0	138.3	137.3	85.4	74.3
60°	8758.8	8600.6	7742.1	2936.6	592.6	170.3	126.2	123.3	143.2	81.5	70.9
62.5°	8600.1	8377.8	7570.3	2726.4	483.4	145.1	110.2	101.9	128.6	73.3	62.6
65°	8270.1	7946.4	6985.0	2346.5	431.0	133.0	95.1	83.5	89.3	64.5	54.8
67.5°	7719.8	7281.0	6141.1	1895.6	410.1	129.6	82.0	70.9	67.5	55.3	48.0
70°	6750.6	6263.8	5116.6	1490.4	392.1	128.1	68.9	59.7	54.4	46.6	40.8
72.5°	4913.2	4405.6	3632.5	1165.2	381.5	131.0	55.3	50.0	44.6	36.4	31.5
75°	2810.4	2478.0	2041.7	769.7	325.2	125.2	42.7	41.7	32.0	26.2	21.8
77.5°	1452.0	1407.9	1223.5	295.6	155.8	54.8	28.1	24.3	18.9	16.0	13.1
80°	626.5	619.7	536.3	85.4	41.3	30.6	16.0	10.2	8.7	6.8	5.3
82.5°	216.4	216.4	190.7	28.6	18.4	15.0	1.9	0.0	0.0	0.0	0.0
85°	43.7	49.0	34.5	0.0	6.3	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°	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0
2.5°	2910.4	2851.7	2847.8	2810.9	2764.8	2743.9	2731.8	2753.1	2779.3	2782.3	2821.6
5°	2259.1	2197.5	2223.2	2157.7	2170.8	2157.7	2136.3	2140.2	2151.8	2115.4	2160.6
7.5°	1586.5	1539.9	1569.5	1552.0	1575.3	1584.5	1571.4	1552.0	1494.7	1487.9	1527.3
10°	1195.8	1142.9	1111.4	1078.3	1085.6	1100.7	1095.8	1081.7	1045.3	1047.3	1085.1
12.5°	960.9	901.7	839.1	758.0	738.2	749.3	738.2	729.9	695.0	697.9	731.4
15°	728.9	680.4	614.9	549.9	514.4	517.8	486.8	464.9	443.1	416.9	437.3
17.5°	492.1	462.5	443.1	423.7	381.5	371.7	332.4	290.2	273.7	261.6	270.3
20°	348.4	332.4	324.7	323.7	299.4	287.3	249.0	222.8	214.5	212.1	217.4
22.5°	291.2	279.5	268.4	262.1	249.9	235.9	206.7	193.6	187.8	184.9	188.8
25°	253.3	244.6	232.9	222.3	217.4	202.4	181.5	171.8	167.9	165.0	166.9
27.5°	225.2	217.4	203.8	197.0	193.2	180.0	162.1	154.3	150.9	150.0	149.5
30°	202.9	195.6	183.0	175.2	168.4	156.8	146.1	138.3	134.9	133.9	133.0
32.5°	180.5	174.7	166.5	158.7	151.4	140.7	131.5	125.2	119.9	118.9	118.4
35°	152.4	146.6	142.2	141.7	134.9	124.7	117.9	109.7	105.3	103.9	104.3
37.5°	135.4	127.6	117.9	121.3	119.4	112.1	102.9	94.6	90.3	89.3	89.3
40°	124.7	116.5	105.3	99.5	105.3	103.9	89.3	81.0	76.7	76.2	75.2
42.5°	114.5	106.3	93.7	84.0	86.9	91.2	77.2	69.4	65.0	64.1	62.6
45°	107.3	98.5	84.4	73.3	67.5	76.7	66.0	56.3	53.9	51.9	51.0
47.5°	100.5	92.2	76.2	63.6	53.9	55.3	52.9	46.1	43.2	41.3	40.8
50°	94.6	85.9	68.9	54.4	44.6	40.8	42.7	36.4	34.0	32.0	31.1
52.5°	87.8	79.6	61.1	47.1	37.4	32.0	32.5	28.6	26.2	24.8	24.3
55°	82.5	74.3	54.8	41.3	33.0	26.2	23.3	22.3	20.9	19.9	19.4
57.5°	75.2	67.5	48.5	34.9	28.1	21.4	18.0	18.0	17.5	16.5	16.0
59°	70.9	64.1	44.6	31.5	25.7	18.4	16.0	16.5	16.0	15.0	14.6
60°	67.5	61.1	41.7	29.1	24.3	17.0	14.6	15.5	15.0	14.1	13.6
62.5°	59.7	55.3	35.9	24.3	21.4	13.6	12.1	13.1	13.1	12.6	12.1
65°	52.4	47.6	30.6	20.4	19.9	11.6	9.7	11.6	12.1	11.2	10.2
67.5°	45.6	40.8	26.7	16.5	18.4	9.2	7.3	9.7	13.1	10.2	9.2
70°	38.8	34.0	20.9	13.1	19.4	6.3	5.8	8.7	15.5	11.2	8.7
72.5°	30.1	26.2	14.6	9.7	20.9	4.4	4.4	7.3	17.5	12.1	8.3
75°	20.9	17.0	8.7	5.8	17.0	2.9	2.9	6.8	16.5	11.2	7.8
77.5°	12.1	9.2	2.9	0.5	8.7	0.0	0.5	4.9	11.6	6.8	3.4
80°	4.4	1.9	0.0	0.0	5.3	0.0	0.0	0.0	1.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0
2.5°	2831.8	2897.3	2956.0	3044.8	3150.1	3271.4	3375.8	3487.9	3593.2	3636.9	3667.0
5°	2169.8	2250.8	2345.5	2476.0	2649.8	2863.8	3064.2	3290.9	3534.5	3656.3	3770.8
7.5°	1534.1	1616.6	1734.0	1872.8	2082.9	2337.7	2599.8	2912.8	3242.8	3435.5	3625.2
10°	1103.1	1204.5	1314.2	1504.0	1717.5	1959.2	2229.0	2578.4	2946.3	3159.8	3388.4
12.5°	750.8	866.3	1032.2	1244.8	1495.7	1732.5	1966.9	2300.4	2727.4	2939.0	3184.1
15°	450.4	514.4	690.1	936.2	1243.8	1538.9	1795.6	2130.0	2585.2	2844.4	3099.2
17.5°	277.6	307.2	402.8	604.7	927.9	1301.1	1653.0	2072.3	2605.6	2921.1	3193.8
20°	221.3	232.9	263.5	357.2	614.9	1039.0	1492.3	2060.6	2772.1	3160.3	3453.0
22.5°	192.2	203.3	223.7	259.6	386.8	777.9	1339.9	2071.3	3010.8	3519.0	3860.6
25°	169.4	179.1	198.5	228.1	283.4	547.9	1176.9	2118.8	3321.9	3964.0	4327.0
27.5°	151.4	159.7	177.6	204.8	243.1	382.4	992.0	2176.6	3690.8	4419.2	4777.4
30°	134.9	142.2	158.2	183.4	211.1	294.1	789.1	2215.9	4060.1	4777.4	5099.1
32.5°	120.8	126.2	140.7	162.1	183.4	234.4	599.8	2209.6	4334.3	5075.3	5330.6
35°	106.3	111.6	124.2	142.7	159.7	193.6	471.7	2091.7	4573.0	5384.5	5595.6
37.5°	90.3	97.1	109.2	125.7	137.3	170.3	381.5	1949.5	4815.2	5737.8	5891.1
40°	76.7	83.5	94.1	112.1	119.4	161.6	293.1	1776.2	5087.5	6132.8	6215.3
42.5°	63.6	69.9	81.0	96.6	112.6	139.3	216.9	1578.2	5349.0	6470.6	6510.9
45°	51.4	57.8	69.4	84.9	120.4	115.5	167.9	1366.1	5560.2	6751.6	6764.7
47.5°	40.8	46.6	58.7	80.1	112.1	92.2	119.9	1199.7	5737.3	6970.9	6936.5
50°	31.5	36.4	49.0	91.7	98.0	76.2	90.8	1144.4	5896.0	7106.8	7017.5
52.5°	24.8	29.1	40.3	85.9	76.2	63.1	76.2	1196.3	6113.4	7219.4	7063.1
55°	19.9	24.3	31.5	49.0	51.9	53.4	65.0	1244.8	6488.5	7483.4	7332.5
57.5°	16.5	20.9	25.7	34.5	39.3	45.1	57.8	1250.1	6930.7	7922.1	7779.5
59°	15.0	18.9	23.3	30.6	34.5	41.3	54.4	1221.0	7086.4	8081.8	8010.5
60°	14.1	18.0	21.8	28.1	32.0	38.8	52.4	1193.4	7093.2	8076.0	8109.0
62.5°	12.1	16.0	19.4	23.8	27.2	33.0	47.1	1091.0	6805.9	7811.5	8049.8
65°	10.7	14.1	17.5	20.4	23.3	29.6	42.7	904.1	6315.3	7384.9	7644.5
67.5°	9.7	12.1	16.0	18.0	20.9	26.2	37.9	644.5	5702.3	6863.2	7031.6
70°	8.7	11.6	14.6	16.5	18.9	22.8	32.5	370.3	4815.2	6099.3	6219.2
72.5°	8.3	11.2	13.1	15.5	17.0	20.4	29.6	174.2	3525.7	4886.1	5199.1
75°	7.3	10.2	12.1	14.6	16.0	18.4	25.2	83.5	2345.0	3535.9	3891.7
77.5°	4.4	8.3	11.2	13.1	14.1	16.0	20.9	48.0	1496.7	2447.4	2882.7
80°	0.0	2.9	8.3	11.2	12.1	13.6	16.0	37.9	800.8	1398.2	1678.2
82.5°	0.0	0.0	5.8	8.7	8.3	9.2	12.1	23.8	361.1	913.8	1029.8
85°	0.0	0.0	1.9	6.8	5.8	4.4	8.3	8.3	79.1	462.5	577.0
87.5°	0.0	0.0	0.0	0.5	2.9	1.9	3.4	1.0	0.5	34.5	139.8
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: P324588

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0	3337.0
2.5°	3772.3	3808.2	3868.9	3897.5	3883.4	3823.7	3752.4	3679.6	3636.9	3653.9
5°	4004.3	4189.2	4295.9	4331.4	4272.1	4138.2	3963.0	3732.0	3650.0	3627.7
7.5°	4004.3	4352.2	4572.6	4611.4	4479.4	4216.8	3888.3	3527.7	3407.8	3364.1
10°	3863.5	4337.2	4644.4	4706.0	4521.6	4129.0	3688.8	3277.3	3135.1	3089.9
12.5°	3704.8	4214.9	4538.6	4623.5	4472.1	4041.6	3550.5	3107.9	2940.5	2901.2
15°	3607.3	4064.4	4332.3	4394.0	4329.9	3990.7	3517.5	3056.9	2859.9	2822.1
17.5°	3642.2	3948.0	4044.5	4080.5	4123.6	3972.7	3607.3	3168.6	2919.1	2883.2
20°	3773.7	3825.2	3775.2	3820.3	3936.8	3990.2	3821.3	3438.4	3139.0	3090.9
22.5°	3997.0	3761.6	3621.4	3639.3	3781.0	4047.9	4148.4	3823.7	3478.2	3418.0
25°	4257.1	3813.0	3535.9	3519.9	3665.5	4124.1	4447.3	4243.0	3879.5	3813.0
27.5°	4584.2	3928.6	3518.5	3502.5	3625.2	4195.5	4695.8	4657.5	4302.2	4188.7
30°	4836.6	4042.1	3570.4	3533.5	3665.5	4245.0	4895.3	5009.3	4639.0	4563.8
32.5°	5017.6	4176.1	3654.8	3601.5	3779.1	4330.4	5049.1	5331.6	4950.6	4836.6
35°	5155.4	4321.6	3791.2	3703.4	3935.3	4460.0	5193.3	5674.7	5282.1	5157.3
37.5°	5284.5	4526.0	4004.3	3899.4	4180.4	4668.6	5345.6	6063.9	5652.8	5503.9
40°	5464.5	4757.5	4332.8	4239.6	4592.5	4953.0	5535.9	6469.6	6074.6	5887.2
42.5°	5644.6	5005.9	4669.1	4694.4	5106.4	5298.6	5781.5	6898.6	6491.0	6291.0
45°	5809.1	5262.2	5148.1	5264.6	5583.4	5677.6	6025.6	7146.6	6823.4	6630.3
47.5°	5955.7	5582.5	5624.2	5934.3	6126.0	6020.7	6208.0	7360.6	7070.9	6900.6
50°	6126.0	5996.9	6251.7	6690.4	6750.6	6331.3	6374.0	7614.0	7360.2	7223.3
52.5°	6312.4	6433.7	6946.7	7333.5	7314.0	6668.6	6541.0	7897.9	7756.6	7628.0
55°	6524.0	6786.5	7558.6	7935.2	7918.7	7045.2	6817.6	8248.7	8253.6	8137.1
57.5°	6838.0	7090.3	7974.1	8422.0	8449.7	7480.0	7286.4	8641.8	8703.0	8625.3
59°	7063.1	7287.4	8138.6	8625.3	8737.9	7816.3	7629.0	8869.9	8829.7	8758.8
60°	7230.1	7412.6	8220.1	8731.6	8905.4	8044.4	7881.9	9003.9	8844.7	8758.8
62.5°	7643.1	7685.3	8367.2	8852.0	9098.0	8551.1	8593.3	9232.0	8740.4	8600.1
65°	7835.8	7857.6	8365.2	8636.5	8911.7	8945.6	9238.8	9238.8	8485.6	8270.1
67.5°	7755.2	7649.9	7950.3	7922.1	8196.8	8711.2	9481.4	8900.0	7998.3	7719.8
70°	7100.0	6694.8	6561.3	6573.5	6783.6	7577.1	9001.0	7903.2	7076.2	6750.6
72.5°	5907.6	4935.6	4606.0	4982.2	5037.0	5823.2	7670.7	5951.8	5218.5	4913.2
75°	4751.6	3479.2	2943.4	3340.4	3433.5	4261.5	5933.8	3706.8	3048.2	2810.4
77.5°	3413.6	2497.4	2112.1	2084.4	2204.7	2702.7	4210.5	1865.5	1555.9	1452.0
80°	1939.3	1643.7	1769.9	1669.9	1730.6	1689.8	2000.4	818.2	670.2	626.5
82.5°	1170.6	971.6	1052.1	876.0	1108.4	965.3	770.7	262.1	227.6	216.4
85°	761.4	530.9	276.6	185.4	381.9	616.8	172.3	71.3	54.8	43.7
87.5°	262.6	135.4	13.6	5.8	40.8	115.0	6.3	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)