

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: P324273

Luminaire Tested: **GLEON-SA9A-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324273  
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-SA9A-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 22706 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

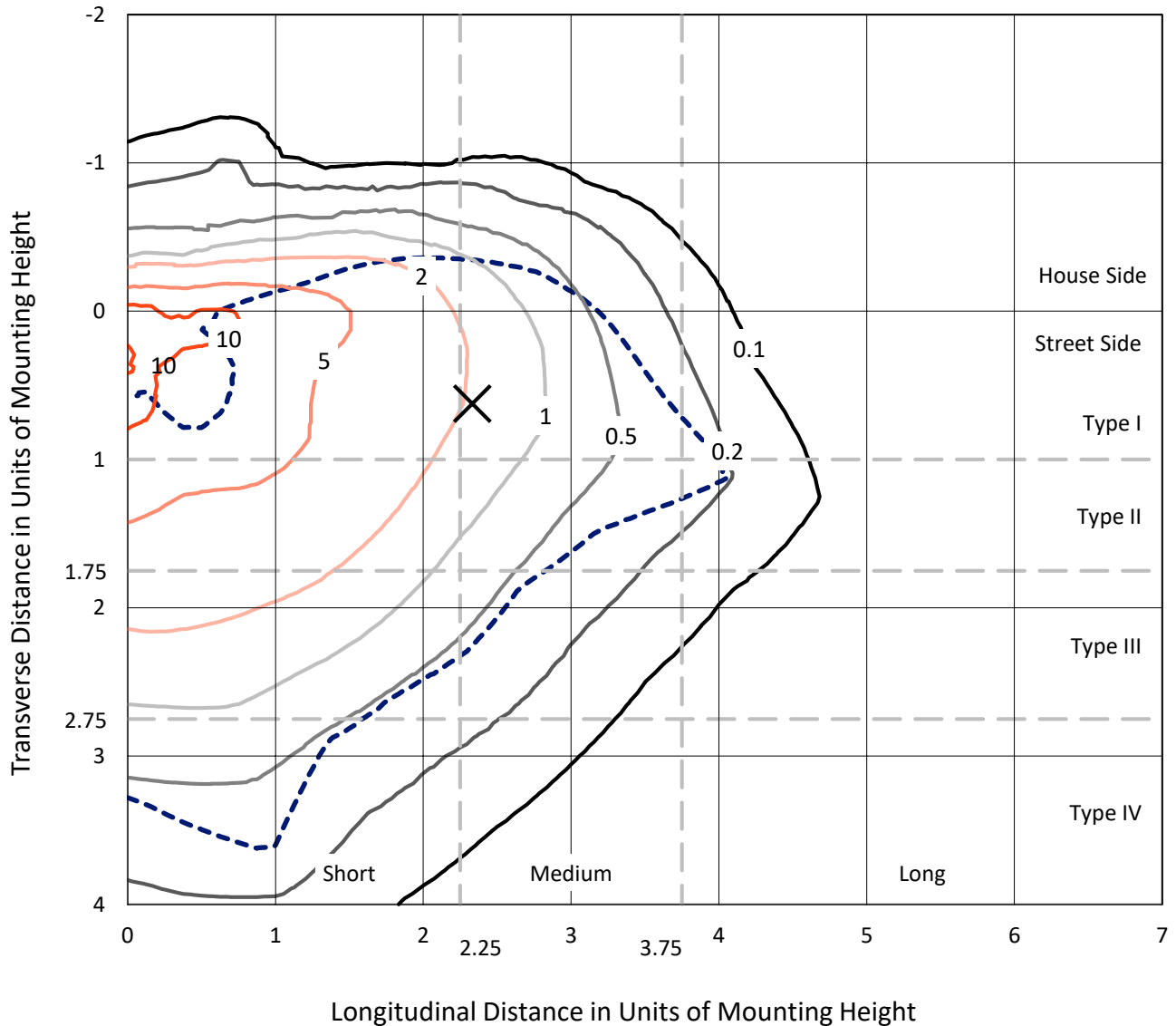
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

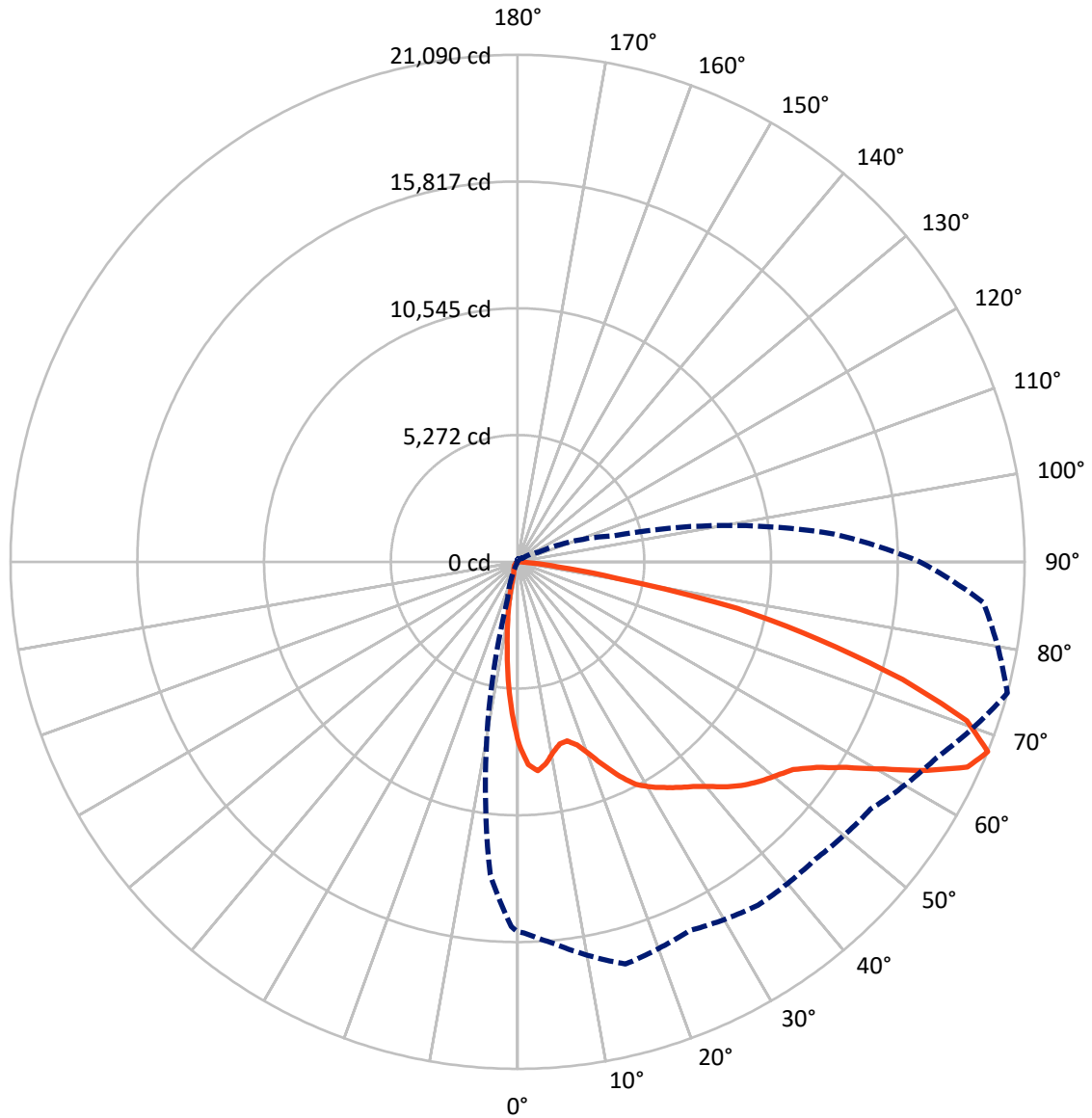
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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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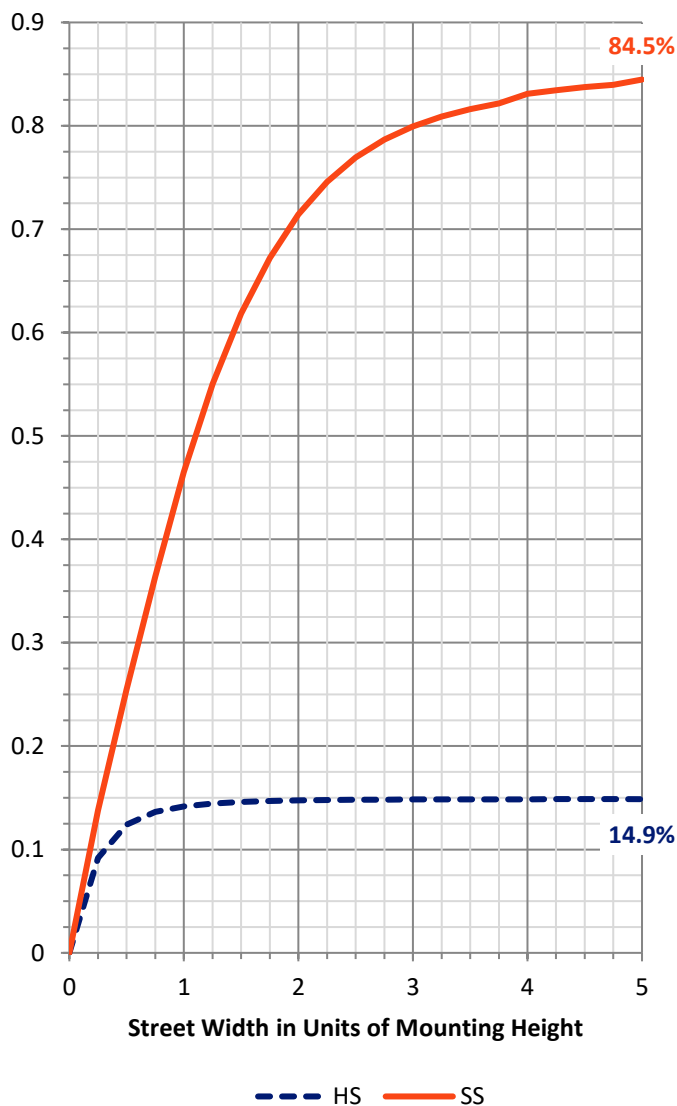
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3407.3	0.0	3407.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	19298.7	0.0	19298.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	22706.0	0.0	22706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.8	2.5
10°-20°	1137.7	5.0
20°-30°	1609.6	7.1
30°-40°	2366.5	10.4
40°-50°	3401.5	15.0
50°-60°	4788.4	21.1
60°-70°	5592.4	24.6
70°-80°	2853.1	12.6
80°-90°	379.0	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°	22706.0	100.0
0°-180°	22706.0	100.0

**Coefficient of Utilization**

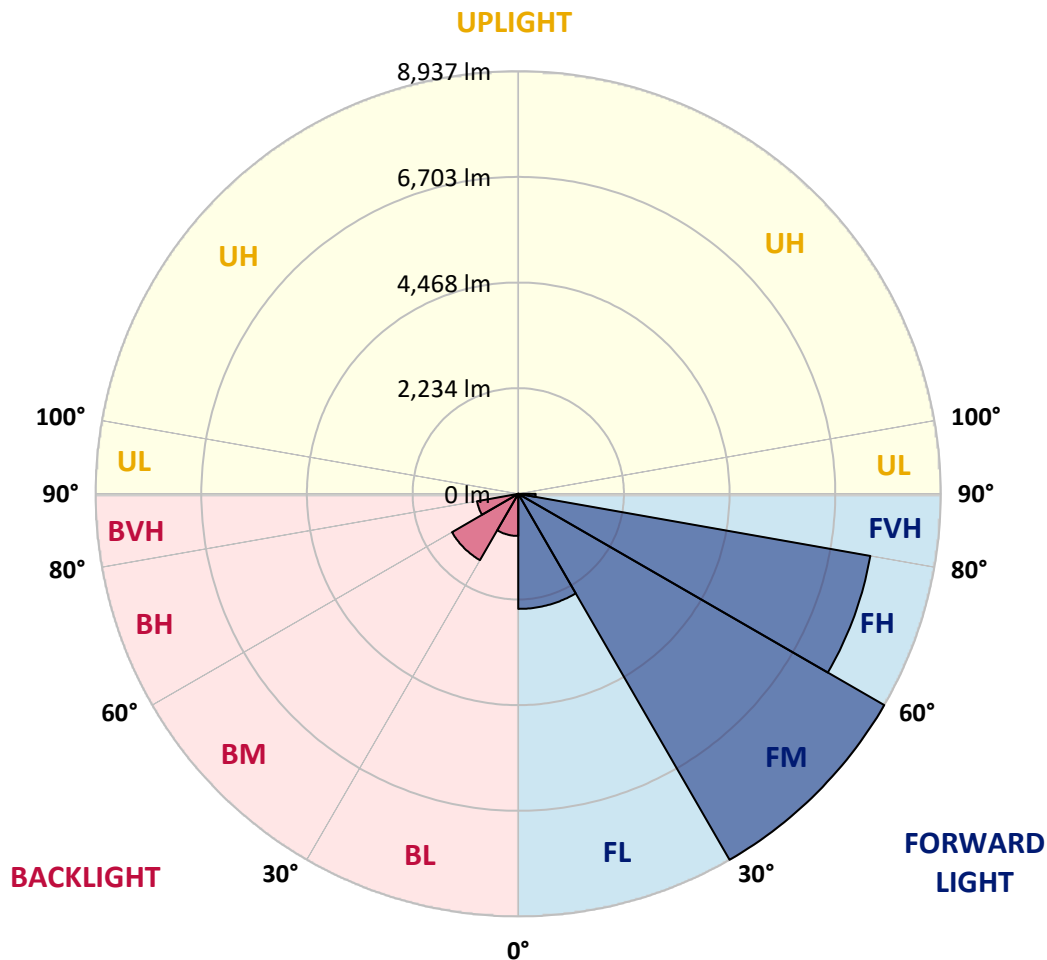


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.1	10.7			
FM (30°-60°)	8936.7	39.4			
FH (60°-80°)	7560.4	33.3			G4/12000
FVH (80°-90°)	367.5	1.6			G3/500
BL (0°-30°)	891.0	3.9	B2/1000		
BM (30°-60°)	1619.7	7.1	B2/2500		
BH (60°-80°)	885.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	11.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5
2.5°	8257.5	8270.4	8337.1	8491.9	8660.8	8673.7	8787.7	8670.5	8630.7	8441.4	8245.6
5°	8319.8	8369.3	8598.4	9053.4	9448.2	9575.1	9665.4	9435.3	9193.2	8730.7	8237.0
7.5°	7817.5	7900.4	8260.7	9114.7	9820.3	10132.3	10191.4	9831.1	9238.4	8476.9	7734.7
10°	7174.3	7269.0	7703.5	8753.3	9722.4	10257.0	10338.8	9866.6	9014.7	8066.0	7191.5
12.5°	6653.7	6764.5	7208.7	8346.7	9385.8	9977.4	10138.7	9747.2	8821.1	7774.5	6820.4
15°	6413.9	6540.8	7007.6	8084.3	9012.5	9478.3	9611.7	9442.8	8713.5	7728.3	6734.4
17.5°	6551.5	6689.2	7171.1	8106.9	8661.9	8860.9	8968.4	9037.3	8713.5	8006.8	6986.1
20°	7116.2	7264.7	7774.5	8336.0	8371.5	8297.3	8412.4	8654.4	8814.6	8536.0	7590.6
22.5°	7897.1	8071.4	8646.8	8728.6	8229.5	7948.8	7963.8	8343.5	8998.6	9207.2	8429.6
25°	8849.0	9062.0	9647.2	9313.7	8288.7	7741.2	7735.8	8087.5	9178.2	9879.5	9364.3
27.5°	9794.5	10029.0	10543.1	10027.9	8532.8	7703.5	7692.8	8010.1	9353.5	10477.5	10385.0
30°	10587.2	10815.3	11258.4	10545.3	8796.3	7791.7	7740.1	8092.9	9457.8	10865.8	11129.3
32.5°	11232.6	11415.5	11773.6	10901.3	9078.2	7962.7	7850.9	8314.5	9635.3	11193.9	11813.4
35°	11942.5	12135.0	12278.1	11240.1	9394.4	8209.1	8048.8	8666.2	9908.5	11527.3	12563.1
37.5°	12752.4	12943.9	12926.7	11549.9	9795.6	8616.7	8514.5	9223.4	10333.4	11857.5	13400.0
40°	13545.2	13740.9	13601.1	11888.7	10266.7	9289.0	9213.7	10060.2	10902.4	12280.2	14380.9
42.5°	14287.3	14499.2	14200.2	12209.3	10828.2	10136.6	10265.6	11137.9	11614.4	12800.8	15226.3
45°	14885.4	15101.6	14702.5	12521.2	11419.8	11164.8	11553.1	12331.9	12470.6	13240.8	15797.5
47.5°	15319.9	15524.3	15051.0	12833.1	12177.0	12422.2	13098.8	13583.9	13244.0	13622.6	16203.0
50°	15597.4	15756.6	15153.2	13223.6	13170.9	13889.4	14709.0	14945.6	13972.2	13966.8	16695.6
52.5°	15773.8	15845.9	15228.5	13631.2	14207.7	15486.6	16285.8	16360.0	14721.9	14345.4	17359.3
55°	16381.6	16439.6	15762.0	14124.9	15065.0	16886.0	17712.1	17643.2	15570.5	15086.5	18142.3
57.5°	17418.4	17479.7	16864.5	14834.8	15758.8	17750.8	18745.7	18869.4	16565.5	16127.7	18981.3
60°	17939.0	18053.0	17833.6	15734.0	16431.0	18303.7	19450.3	19845.0	17808.9	17500.2	19794.5
62.5°	17466.8	17632.5	17950.9	16731.1	17099.0	18608.1	19669.7	20194.6	19082.4	19099.6	20295.7
65°	16524.6	16656.9	17196.9	17277.5	17486.2	18570.4	19127.6	19706.3	19862.2	20568.9	20268.8
67.5°	15386.6	15436.1	15894.3	17320.6	16924.7	17438.9	17499.1	17927.2	19245.9	21089.5	19454.6
70°	13748.5	13775.3	14175.5	15880.3	14544.4	14657.3	14568.1	14655.2	16546.1	19821.4	17399.1
72.5°	11064.8	11132.6	11701.6	13188.1	10595.8	10269.9	10971.2	10932.5	12742.8	16746.2	12922.4
75°	8146.7	8263.9	9123.3	10622.7	7436.8	6726.9	7238.9	7375.5	9058.8	12953.6	8081.1
77.5°	5704.0	5791.1	6623.6	7808.9	5382.4	4810.1	4625.1	4787.5	5979.3	9370.7	4071.2
80°	3286.0	3318.3	3849.6	4509.0	3627.0	4149.7	3759.3	3871.1	3582.9	4169.1	1751.1
82.5°	2150.1	2155.5	2363.1	2683.6	2258.8	2624.5	1942.6	2483.6	2203.9	1674.7	570.1
85°	1161.7	1168.1	1370.3	1904.9	1278.9	722.8	424.9	872.3	1362.8	384.0	156.0
87.5°	128.0	117.2	413.0	692.7	355.0	65.6	22.6	97.9	218.3	24.7	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°	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5
2.5°	8145.6	8056.3	7833.7	7598.1	7408.8	7231.3	7052.8	6834.4	6665.6	6631.1	6575.2
5°	7971.4	7688.5	7221.6	6752.7	6375.1	5898.6	5596.4	5360.8	5130.7	5116.7	5070.4
7.5°	7362.6	6990.4	6333.2	5684.6	5153.3	4699.3	4241.1	3934.6	3693.6	3608.7	3558.1
10°	6777.4	6359.0	5538.3	4798.3	4324.0	3922.8	3600.1	3279.5	2989.1	2789.1	2698.7
12.5°	6368.7	5906.2	5001.6	4363.8	4023.9	3643.1	3249.4	2849.3	2514.8	2273.8	2126.5
15°	6210.6	5716.9	4822.0	4191.7	3772.2	3290.3	2786.9	2329.8	1958.7	1740.3	1608.0
17.5°	6398.8	5824.4	4808.0	3981.9	3395.7	2796.6	2240.5	1700.5	1351.0	1185.3	1100.3
20°	6876.4	6166.5	4802.6	3724.8	2948.2	2211.5	1517.7	1118.6	906.7	814.2	774.4
22.5°	7551.9	6603.2	4845.6	3471.0	2482.5	1580.1	1047.6	821.8	713.1	663.7	641.1
25°	8421.0	7216.3	4967.2	3240.8	2044.7	1178.9	816.4	688.4	612.0	573.3	557.2
27.5°	9347.1	7921.9	5156.5	3040.8	1688.7	940.1	699.1	589.4	534.6	507.7	492.6
30°	10110.7	8739.3	5347.9	2818.1	1430.6	819.6	640.0	537.8	474.3	457.1	443.2
32.5°	10778.7	9357.8	5483.5	2617.0	1261.7	728.2	578.7	480.8	437.8	404.4	389.4
35°	11470.3	9873.0	5479.2	2476.1	1145.5	659.3	527.0	430.2	378.6	339.9	328.1
37.5°	12218.9	10454.9	5385.6	2355.6	1095.0	604.5	498.0	403.4	351.7	313.0	297.9
40°	13095.6	11065.9	5289.9	2242.6	1081.0	560.4	477.6	381.8	327.0	289.3	274.3
42.5°	13949.6	11616.6	5206.0	2158.8	1020.8	559.3	459.3	365.7	307.6	271.1	253.8
45°	14632.6	12129.7	5189.8	2108.2	957.3	578.7	449.6	355.0	292.6	256.0	239.9
47.5°	15200.5	12686.8	5293.1	2072.7	897.1	528.1	473.3	347.4	278.6	243.1	224.8
50°	15876.0	13370.9	5536.2	2014.6	833.6	475.4	542.1	349.6	266.8	230.2	210.8
52.5°	16818.2	14317.5	5893.3	1916.7	746.5	427.0	533.5	351.7	253.8	216.2	196.8
55°	17874.5	15499.5	6277.3	1754.3	624.9	363.6	457.1	336.7	229.1	201.1	182.9
57.5°	18984.5	16571.9	6505.3	1560.7	496.9	314.1	365.7	306.5	202.2	180.7	168.9
60°	19158.8	16979.6	6401.0	1323.0	394.7	273.2	271.1	311.9	180.7	159.2	150.6
62.5°	18725.3	16467.6	5896.5	1111.1	330.2	239.9	222.7	272.1	163.5	142.0	133.4
65°	17891.7	15083.3	5079.0	1001.4	306.5	205.4	185.0	191.5	143.1	123.7	116.2
67.5°	16732.2	13235.4	4170.1	939.0	303.3	176.4	158.1	145.2	123.7	107.6	101.1
70°	14361.6	11026.1	3326.9	904.6	294.7	148.4	133.4	118.3	103.3	91.4	86.0
72.5°	10570.0	7813.2	2587.9	866.9	296.9	118.3	116.2	97.9	82.8	71.0	68.8
75°	6107.3	4463.8	1697.3	702.4	282.9	91.4	96.8	68.8	58.1	49.5	49.5
77.5°	3254.8	2722.4	646.4	292.6	103.3	58.1	54.9	40.9	36.6	30.1	29.0
80°	1418.7	1198.2	194.7	81.7	57.0	31.2	20.4	18.3	16.1	12.9	11.8
82.5°	502.3	433.5	63.5	39.8	24.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	114.0	81.7	0.0	9.7	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°	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5
2.5°	6461.2	6437.5	6297.7	6303.1	6327.8	6363.3	6279.4	6318.1	6422.5	6522.5	6560.1
5°	4996.2	5001.6	4916.6	4969.3	5016.6	5048.9	4913.4	4915.5	4998.4	5111.3	5170.5
7.5°	3520.5	3511.9	3516.2	3642.0	3731.3	3666.8	3717.3	3542.0	3552.7	3633.4	3573.2
10°	2617.0	2498.6	2432.0	2526.6	2624.5	2589.0	2501.9	2444.9	2484.7	2573.9	2567.5
12.5°	2056.6	1886.6	1786.6	1718.8	1799.5	1732.8	1730.7	1681.2	1627.4	1637.1	1780.1
15°	1546.7	1423.0	1304.7	1196.1	1193.9	1171.3	1056.2	927.2	916.4	922.9	997.1
17.5°	1063.8	1021.8	973.4	879.8	855.1	760.5	648.6	597.0	571.1	583.0	607.7
20°	747.5	731.4	736.8	686.2	650.7	560.4	494.8	474.3	470.0	481.9	493.7
22.5°	619.6	590.5	587.3	564.7	529.2	463.6	428.1	416.3	410.9	421.6	430.2
25°	542.1	513.1	501.2	487.3	449.6	404.4	382.9	372.2	366.8	373.2	378.6
27.5°	477.6	450.7	439.9	430.2	393.7	361.4	344.2	334.5	330.2	332.4	337.7
30°	429.2	405.5	391.5	379.7	348.5	325.9	310.9	301.2	296.9	296.9	302.2
32.5°	378.6	365.7	352.8	337.7	308.7	293.6	278.6	267.8	263.5	264.6	268.9
35°	315.2	310.9	314.1	300.1	275.4	262.4	247.4	235.6	232.3	233.4	237.7
37.5°	279.7	260.3	272.1	264.6	250.6	233.4	214.0	203.3	197.9	201.1	203.3
40°	257.1	233.4	224.8	232.3	230.2	202.2	185.0	174.2	169.9	171.0	173.2
42.5°	237.7	209.7	190.4	189.3	202.2	176.4	158.1	148.4	143.1	143.1	145.2
45°	219.4	189.3	165.6	147.4	169.9	149.5	132.3	123.7	117.2	117.2	118.3
47.5°	205.4	172.1	144.1	120.5	128.0	122.6	108.6	100.0	93.6	93.6	94.7
50°	192.5	154.9	124.8	101.1	95.7	101.1	88.2	78.5	74.2	73.1	75.3
52.5°	178.6	137.7	106.5	86.0	75.3	76.4	68.8	62.4	57.0	57.0	59.2
55°	164.6	123.7	92.5	73.1	62.4	57.0	54.9	50.6	46.3	46.3	48.4
57.5°	150.6	108.6	78.5	60.2	49.5	45.2	45.2	41.9	38.7	38.7	40.9
60°	137.7	93.6	64.5	49.5	38.7	37.6	38.7	35.5	33.3	33.3	35.5
62.5°	122.6	79.6	52.7	40.9	31.2	30.1	33.3	31.2	29.0	29.0	31.2
65°	104.3	67.8	41.9	31.2	23.7	23.7	28.0	25.8	23.7	23.7	25.8
67.5°	88.2	57.0	32.3	22.6	17.2	18.3	23.7	21.5	20.4	20.4	22.6
70°	73.1	44.1	22.6	14.0	9.7	14.0	18.3	18.3	18.3	18.3	20.4
72.5°	54.9	30.1	12.9	5.4	4.3	9.7	15.1	17.2	16.1	16.1	19.4
75°	35.5	17.2	4.3	0.0	0.0	5.4	11.8	14.0	14.0	12.9	16.1
77.5°	20.4	5.4	0.0	0.0	0.0	0.0	7.5	6.5	5.4	4.3	7.5
80°	5.4	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: P324273  
 CATALOG NUMBER: GLEON-SA9A-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5	7617.5
2.5°	6711.8	6838.7	7017.3	7206.6	7498.1	7729.3	7956.3	8151.0	8226.3	8257.5
5°	5312.4	5498.5	5759.9	6095.5	6621.5	7094.7	7574.5	8057.4	8267.1	8319.8
7.5°	3812.0	4049.7	4382.0	4802.6	5418.9	6032.0	6702.1	7411.0	7735.8	7817.5
10°	2821.3	3111.7	3492.5	3935.7	4524.0	5154.3	5884.7	6694.6	7065.7	7174.3
12.5°	2001.7	2394.3	2904.1	3443.0	3952.9	4515.4	5254.4	6147.1	6536.5	6653.7
15°	1175.6	1555.3	2158.8	2880.5	3533.4	4103.5	4854.2	5866.4	6295.5	6413.9
17.5°	674.4	863.7	1319.8	2124.3	3010.6	3800.1	4728.4	5936.3	6441.8	6551.5
20°	515.2	575.5	760.5	1368.2	2399.7	3502.2	4728.4	6332.1	6954.9	7116.2
22.5°	450.7	494.8	570.1	816.4	1766.2	3182.7	4783.2	6904.3	7718.6	7897.1
25°	400.1	439.9	504.5	614.2	1204.7	2803.0	4913.4	7606.7	8617.8	8849.0
27.5°	358.2	395.8	453.9	537.8	823.9	2344.8	5088.7	8430.6	9609.5	9794.5
30°	320.5	356.0	408.7	467.9	635.7	1825.3	5238.2	9207.2	10388.2	10587.2
32.5°	285.0	317.3	364.6	408.7	520.6	1349.9	5254.4	9822.5	11034.7	11232.6
35°	251.7	280.7	323.8	358.2	431.3	1065.9	5003.7	10356.0	11681.1	11942.5
37.5°	219.4	247.4	285.0	310.9	379.7	869.1	4620.8	10950.8	12510.4	12752.4
40°	189.3	214.0	252.8	270.0	359.3	668.0	4204.6	11574.6	13323.6	13545.2
42.5°	161.3	185.0	222.7	256.0	315.2	499.1	3755.0	12159.8	14055.0	14287.3
45°	134.5	159.2	196.8	271.1	261.4	373.2	3274.2	12548.1	14632.6	14885.4
47.5°	108.6	136.6	188.2	258.1	208.7	274.3	2893.4	12915.9	15070.4	15319.9
50°	87.1	115.1	211.9	230.2	171.0	209.7	2734.2	13245.1	15357.6	15597.4
52.5°	71.0	96.8	200.1	176.4	143.1	173.2	2820.3	13778.6	15623.2	15773.8
55°	59.2	76.4	120.5	122.6	121.5	147.4	2926.7	14544.4	16310.6	16381.6
57.5°	51.6	61.3	83.9	94.7	102.2	131.2	2928.9	15643.7	17374.3	17418.4
60°	44.1	53.8	69.9	76.4	88.2	117.2	2822.4	16027.7	17792.8	17939.0
62.5°	38.7	47.3	58.1	63.5	74.2	105.4	2572.9	15471.6	17218.4	17466.8
65°	34.4	43.0	48.4	53.8	65.6	94.7	2162.0	14359.4	16265.4	16524.6
67.5°	30.1	37.6	43.0	48.4	59.2	83.9	1591.9	13067.6	15171.5	15386.6
70°	26.9	33.3	38.7	43.0	51.6	71.0	965.9	11088.5	13659.2	13748.5
72.5°	25.8	30.1	35.5	38.7	45.2	62.4	489.4	8148.8	10919.6	11064.8
75°	22.6	26.9	32.3	34.4	39.8	53.8	199.0	5352.2	7913.3	8146.7
77.5°	18.3	24.7	29.0	31.2	34.4	44.1	101.1	3420.4	5553.4	5704.0
80°	6.5	18.3	24.7	25.8	29.0	32.3	66.7	1872.6	3221.5	3286.0
82.5°	0.0	11.8	19.4	18.3	20.4	24.7	43.0	890.6	2126.5	2150.1
85°	0.0	5.4	15.1	11.8	8.6	17.2	15.1	194.7	1115.4	1161.7
87.5°	0.0	0.0	1.1	5.4	4.3	6.5	2.2	1.1	101.1	128.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)