

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: P324294

Luminaire Tested: **GLEON-SA0C-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324294  
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-SA0C-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 1050mA 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: 38154 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

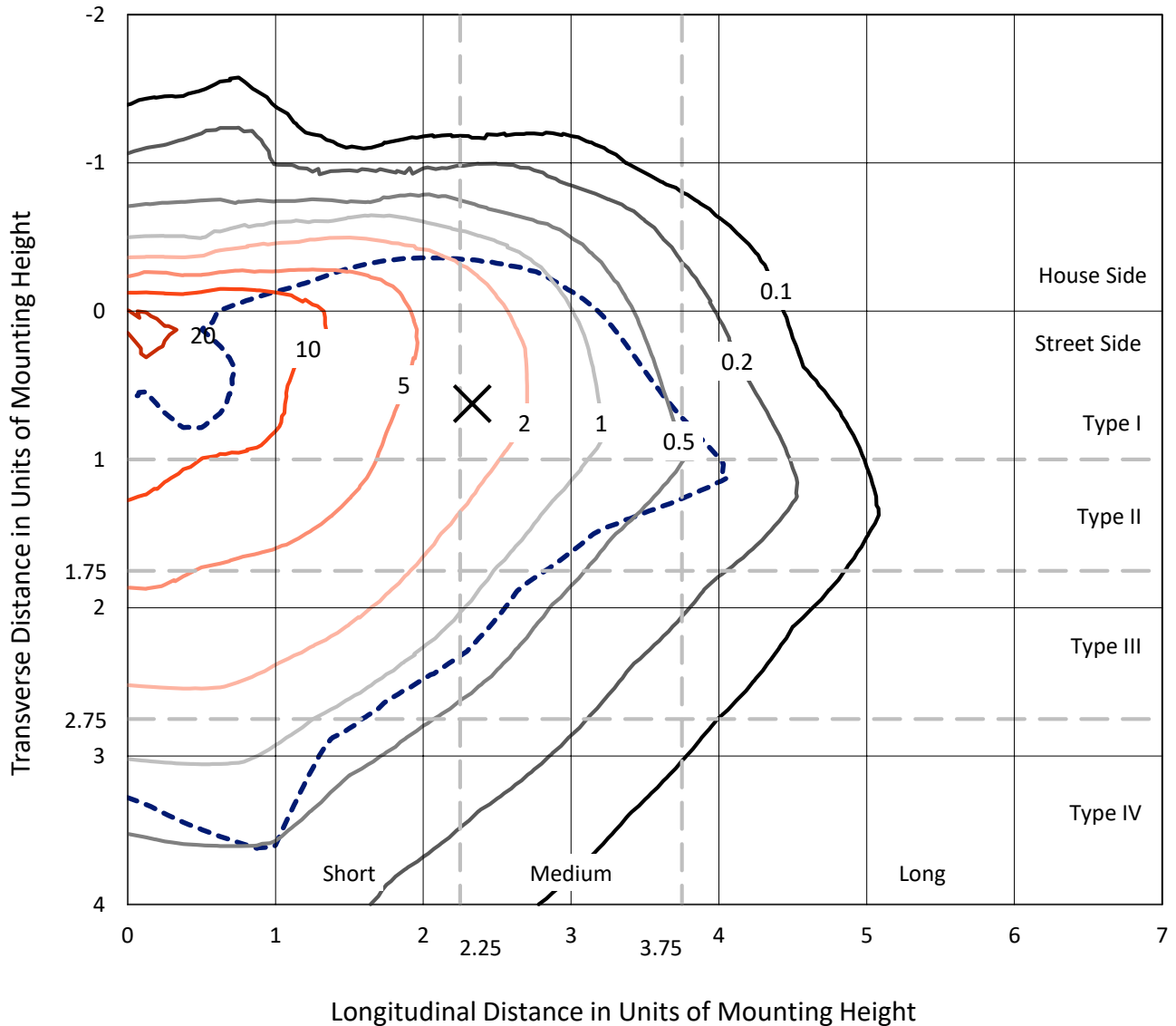
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

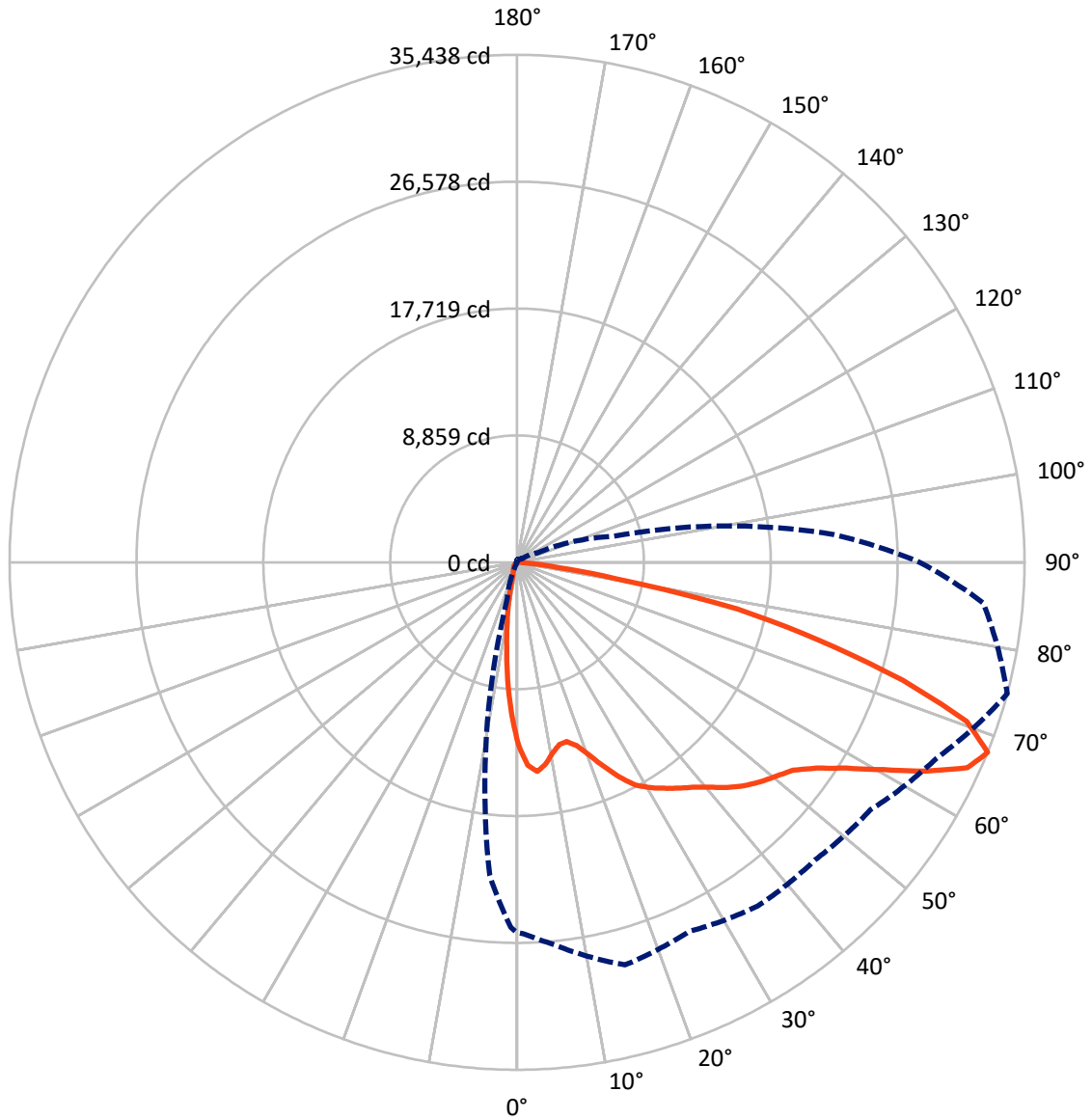
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 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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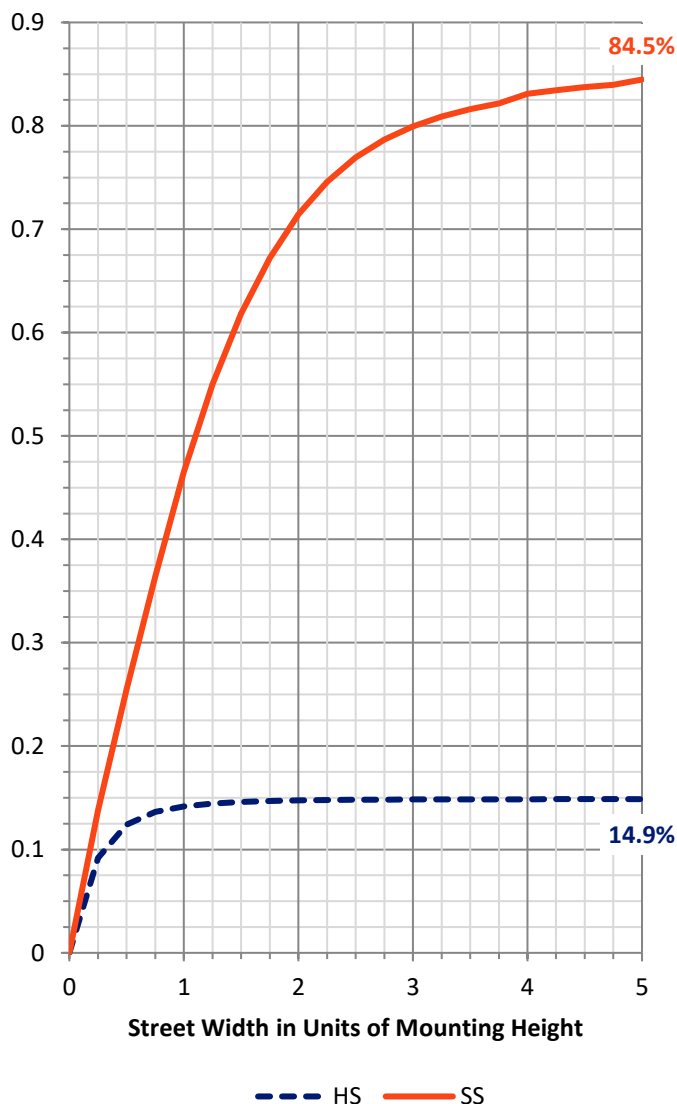
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5725.4	0.0	5725.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	32428.6	0.0	32428.6
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	38154.0	0.0	38154.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	970.9	2.5
10°-20°	1911.8	5.0
20°-30°	2704.6	7.1
30°-40°	3976.6	10.4
40°-50°	5715.7	15.0
50°-60°	8046.2	21.1
60°-70°	9397.2	24.6
70°-80°	4794.1	12.6
80°-90°	636.9	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°	38154.0	100.0
0°-180°	38154.0	100.0

**Coefficient of Utilization**

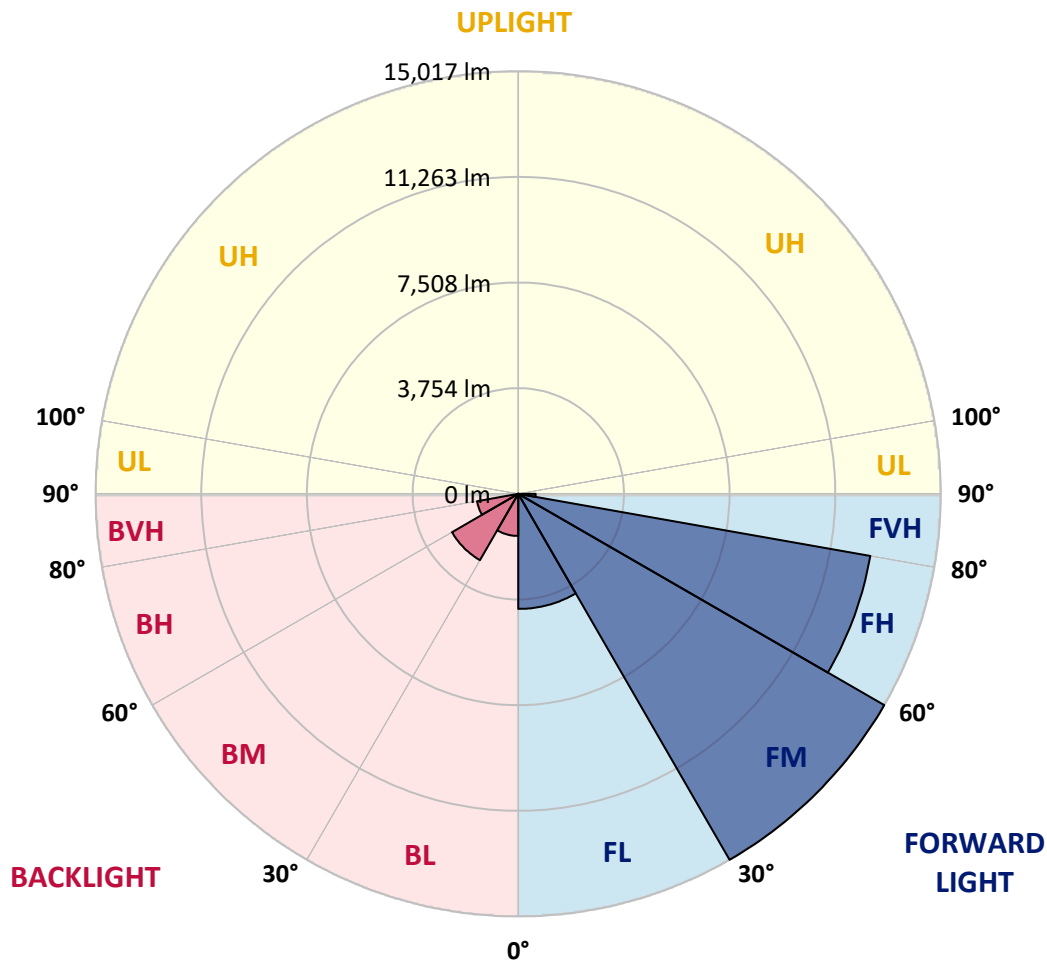


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4090.1	10.7			
FM (30°-60°)	15016.7	39.4			
FH (60°-80°)	12704.2	33.3			G5
FVH (80°-90°)	617.6	1.6			G4/750
BL (0°-30°)	1497.3	3.9	B3/2500		
BM (30°-60°)	2721.7	7.1	B3/5000		
BH (60°-80°)	1487.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	19.3	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-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0
2.5°	13875.4	13897.1	14009.2	14269.4	14553.2	14574.9	14766.5	14569.5	14502.6	14184.5	13855.5
5°	13980.2	14063.4	14448.4	15212.9	15876.2	16089.5	16241.3	15854.5	15447.9	14670.7	13841.1
7.5°	13136.2	13275.4	13880.8	15315.9	16501.6	17025.7	17125.1	16519.6	15523.8	14244.1	12997.0
10°	12055.4	12214.4	12944.6	14708.6	16337.1	17235.4	17372.7	16579.3	15147.8	13553.7	12084.3
12.5°	11180.6	11366.7	12113.2	14025.4	15771.4	16765.5	17036.6	16378.7	14822.5	13063.9	11460.7
15°	10777.5	10990.8	11775.2	13584.4	15144.2	15926.8	16150.9	15867.2	14641.8	12986.2	11316.1
17.5°	11008.9	11240.2	12049.9	13622.4	14555.0	14889.4	15070.1	15185.8	14641.8	13454.3	11739.1
20°	11957.8	12207.2	13063.9	14007.4	14067.0	13942.3	14135.7	14542.3	14811.7	14343.5	12754.8
22.5°	13269.9	13562.7	14529.7	14667.1	13828.4	13356.7	13382.0	14020.0	15120.7	15471.4	14164.6
25°	14869.5	15227.4	16210.6	15650.3	13927.8	13007.9	12998.8	13589.8	15422.6	16601.0	15735.2
27.5°	16458.2	16852.2	17716.1	16850.4	14338.1	12944.6	12926.5	13459.7	15717.2	17605.9	17450.5
30°	17790.2	18173.4	18918.1	17719.8	14780.9	13092.8	13006.1	13598.9	15892.5	18258.4	18701.2
32.5°	18874.7	19181.9	19783.8	18318.0	15254.5	13380.2	13192.2	13971.2	16190.7	18809.6	19850.7
35°	20067.6	20391.1	20631.5	18887.3	15785.8	13794.1	13524.8	14562.2	16649.8	19369.9	21110.4
37.5°	21428.5	21750.3	21721.3	19407.9	16460.0	14479.1	14307.4	15498.5	17363.7	19924.8	22516.6
40°	22760.6	23089.5	22854.6	19977.2	17251.6	15608.7	15482.2	16904.6	18319.8	20635.1	24165.0
42.5°	24007.7	24363.8	23861.3	20515.8	18195.1	17032.9	17249.8	18715.6	19516.3	21509.9	25585.6
45°	25012.6	25375.9	24705.4	21040.0	19189.2	18760.8	19413.3	20721.9	20955.0	22249.1	26545.3
47.5°	25742.8	26086.2	25291.0	21564.1	20461.6	20873.7	22010.5	22825.7	22254.5	22890.7	27226.7
50°	26209.1	26476.6	25462.7	22220.2	22131.6	23339.0	24716.2	25113.8	23478.1	23469.1	28054.5
52.5°	26505.5	26626.6	25589.2	22905.2	23874.0	26023.0	27365.9	27490.6	24737.9	24105.3	29169.6
55°	27526.7	27624.3	26485.7	23734.8	25314.5	28374.4	29762.5	29646.8	26163.9	25350.6	30485.4
57.5°	29269.1	29372.1	28338.2	24927.7	26480.2	29827.5	31499.4	31707.2	27835.8	27100.2	31895.2
60°	30143.8	30335.4	29966.7	26438.7	27609.9	30756.5	32683.2	33346.5	29925.1	29406.4	33261.6
62.5°	29350.4	29628.7	30163.7	28114.1	28732.3	31268.0	33051.9	33934.0	32065.1	32094.0	34103.9
65°	27767.1	27989.4	28896.7	29032.3	29382.9	31204.8	32141.0	33113.4	33375.5	34562.9	34058.7
67.5°	25854.9	25938.0	26708.0	29104.6	28439.5	29303.4	29404.6	30124.0	32339.8	35437.7	32690.5
70°	23102.2	23147.4	23819.7	26684.5	24439.7	24629.5	24479.4	24625.8	27803.3	33306.8	29236.5
72.5°	18592.7	18706.6	19662.7	22160.5	17804.7	17257.1	18435.5	18370.4	21412.3	28139.4	21714.1
75°	13689.3	13886.3	15330.4	17849.9	12496.4	11303.5	12163.8	12393.3	15221.9	21766.5	13579.0
77.5°	9584.6	9731.0	11130.0	13121.7	9044.2	8082.7	7771.8	8044.7	10047.3	15746.1	6841.0
80°	5521.6	5575.8	6468.7	7576.6	6094.6	6973.0	6316.9	6504.8	6020.5	7005.5	2942.4
82.5°	3613.0	3622.0	3970.9	4509.5	3795.5	4410.1	3264.2	4173.3	3703.4	2814.1	957.9
85°	1952.0	1962.8	2302.6	3200.9	2149.0	1214.6	713.9	1465.8	2290.0	645.2	262.1
87.5°	215.1	197.0	694.0	1164.0	596.4	110.3	38.0	164.5	366.9	41.6	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°	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0
2.5°	13687.4	13537.4	13163.3	12767.5	12449.4	12151.2	11851.1	11484.2	11200.5	11142.6	11048.6
5°	13394.6	12919.3	12134.9	11346.9	10712.5	9911.8	9403.9	9008.1	8621.3	8597.8	8520.1
7.5°	12371.7	11746.3	10642.0	9552.1	8659.3	7896.5	7126.6	6611.5	6206.6	6063.8	5978.9
10°	11388.4	10685.4	9306.3	8062.8	7265.8	6591.6	6049.4	5510.8	5022.8	4686.6	4534.8
12.5°	10701.6	9924.4	8404.4	7332.6	6761.5	6121.7	5460.2	4787.8	4225.7	3820.8	3573.2
15°	10435.9	9606.3	8102.6	7043.4	6338.6	5528.8	4683.0	3914.8	3291.3	2924.4	2702.1
17.5°	10752.2	9787.1	8079.1	6691.0	5706.0	4699.2	3764.8	2857.5	2270.1	1991.8	1849.0
20°	11554.7	10361.8	8070.0	6259.0	4954.1	3716.0	2550.2	1879.7	1523.6	1368.2	1301.3
22.5°	12689.8	11095.6	8142.3	5832.5	4171.5	2655.1	1760.4	1380.9	1198.3	1115.2	1077.2
25°	14150.1	12125.9	8346.6	5445.7	3435.9	1980.9	1371.8	1156.7	1028.4	963.3	936.2
27.5°	15706.3	13311.5	8664.7	5109.5	2837.6	1579.7	1174.8	990.5	898.3	853.1	827.8
30°	16989.6	14685.1	8986.4	4735.4	2403.8	1377.2	1075.4	903.7	797.1	768.1	744.6
32.5°	18112.0	15724.4	9214.1	4397.4	2120.1	1223.6	972.4	807.9	735.6	679.6	654.3
35°	19274.1	16590.1	9206.9	4160.6	1924.9	1107.9	885.6	723.0	636.2	571.1	551.3
37.5°	20532.1	17567.9	9049.7	3958.2	1839.9	1015.8	836.8	677.8	591.0	526.0	500.7
40°	22005.1	18594.5	8888.8	3768.4	1816.4	941.7	802.5	641.6	549.4	486.2	460.9
42.5°	23440.2	19519.9	8747.8	3627.5	1715.2	939.8	771.8	614.5	516.9	455.5	426.5
45°	24587.9	20382.1	8720.7	3542.5	1608.6	972.4	755.5	596.4	491.6	430.2	403.1
47.5°	25542.2	21318.3	8894.2	3482.9	1507.4	887.4	795.3	583.8	468.1	408.5	377.7
50°	26677.2	22467.8	9302.7	3385.3	1400.7	798.9	910.9	587.4	448.2	386.8	354.3
52.5°	28260.5	24058.3	9902.8	3220.8	1254.3	717.5	896.5	591.0	426.5	363.3	330.8
55°	30035.4	26044.6	10548.0	2947.9	1050.1	610.9	768.1	565.7	385.0	338.0	307.3
57.5°	31900.6	27846.6	10931.2	2622.5	835.0	527.8	614.5	515.1	339.8	303.6	283.8
60°	32193.4	28531.6	10755.8	2223.1	663.3	459.1	455.5	524.1	303.6	267.5	253.0
62.5°	31465.0	27671.3	9908.2	1867.0	554.9	403.1	374.1	457.3	274.7	238.6	224.1
65°	30064.3	25345.2	8534.5	1682.7	515.1	345.2	310.9	321.7	240.4	207.9	195.2
67.5°	28115.9	22240.1	7007.3	1577.9	509.7	296.4	265.7	244.0	207.9	180.7	169.9
70°	24132.4	18527.7	5590.3	1520.0	495.2	249.4	224.1	198.8	173.5	153.6	144.6
72.5°	17761.3	13129.0	4348.6	1456.8	498.8	198.8	195.2	164.5	139.2	119.3	115.7
75°	10262.4	7500.7	2852.1	1180.2	475.3	153.6	162.7	115.7	97.6	83.1	83.1
77.5°	5469.2	4574.5	1086.2	491.6	173.5	97.6	92.2	68.7	61.5	50.6	48.8
80°	2384.0	2013.4	327.1	137.4	95.8	52.4	34.3	30.7	27.1	21.7	19.9
82.5°	844.1	728.4	106.6	66.9	41.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	191.6	137.4	0.0	16.3	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°	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0
2.5°	10857.1	10817.3	10582.3	10591.4	10632.9	10692.6	10551.6	10616.7	10792.0	10960.1	11023.3
5°	8395.4	8404.4	8261.6	8350.2	8429.7	8483.9	8256.2	8259.8	8399.0	8588.8	8688.2
7.5°	5915.6	5901.2	5908.4	6119.9	6269.9	6161.4	6246.4	5951.8	5969.8	6105.4	6004.2
10°	4397.4	4198.6	4086.5	4245.6	4410.1	4350.4	4204.0	4108.2	4175.1	4325.1	4314.3
12.5°	3455.8	3170.2	3002.1	2888.2	3023.8	2911.7	2908.1	2825.0	2734.6	2750.9	2991.2
15°	2599.0	2391.2	2192.4	2009.8	2006.2	1968.3	1774.9	1558.0	1539.9	1550.8	1675.5
17.5°	1787.5	1717.0	1635.7	1478.5	1436.9	1277.8	1089.9	1003.1	959.7	979.6	1021.2
20°	1256.1	1229.0	1238.1	1153.1	1093.5	941.7	831.4	797.1	789.8	809.7	829.6
22.5°	1041.1	992.3	986.8	948.9	889.2	779.0	719.3	699.5	690.4	708.5	723.0
25°	910.9	862.1	842.2	818.8	755.5	679.6	643.4	625.4	616.3	627.2	636.2
27.5°	802.5	757.3	739.2	723.0	661.5	607.3	578.4	562.1	554.9	558.5	567.5
30°	721.2	681.4	657.9	638.0	585.6	547.6	522.3	506.1	498.8	498.8	507.9
32.5°	636.2	614.5	592.8	567.5	518.7	493.4	468.1	450.0	442.8	444.6	451.9
35°	529.6	522.3	527.8	504.3	462.7	441.0	415.7	395.8	390.4	392.2	399.4
37.5°	469.9	437.4	457.3	444.6	421.1	392.2	359.7	341.6	332.6	338.0	341.6
40°	432.0	392.2	377.7	390.4	386.8	339.8	310.9	292.8	285.6	287.4	291.0
42.5°	399.4	352.4	319.9	318.1	339.8	296.4	265.7	249.4	240.4	240.4	244.0
45°	368.7	318.1	278.3	247.6	285.6	251.2	222.3	207.9	197.0	197.0	198.8
47.5°	345.2	289.2	242.2	202.4	215.1	206.0	182.5	168.1	157.2	157.2	159.1
50°	323.5	260.3	209.7	169.9	160.9	169.9	148.2	131.9	124.7	122.9	126.5
52.5°	300.0	231.3	178.9	144.6	126.5	128.3	115.7	104.8	95.8	95.8	99.4
55°	276.5	207.9	155.4	122.9	104.8	95.8	92.2	84.9	77.7	77.7	81.3
57.5°	253.0	182.5	131.9	101.2	83.1	75.9	75.9	70.5	65.1	65.1	68.7
60°	231.3	157.2	108.4	83.1	65.1	63.3	65.1	59.6	56.0	56.0	59.6
62.5°	206.0	133.7	88.6	68.7	52.4	50.6	56.0	52.4	48.8	48.8	52.4
65°	175.3	113.9	70.5	52.4	39.8	39.8	47.0	43.4	39.8	39.8	43.4
67.5°	148.2	95.8	54.2	38.0	28.9	30.7	39.8	36.1	34.3	34.3	38.0
70°	122.9	74.1	38.0	23.5	16.3	23.5	30.7	30.7	30.7	30.7	34.3
72.5°	92.2	50.6	21.7	9.0	7.2	16.3	25.3	28.9	27.1	27.1	32.5
75°	59.6	28.9	7.2	0.0	0.0	9.0	19.9	23.5	23.5	21.7	27.1
77.5°	34.3	9.0	0.0	0.0	0.0	0.0	12.7	10.8	9.0	7.2	12.7
80°	9.0	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: P324294

CATALOG NUMBER: GLEON-SA0C-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0	12800.0
2.5°	11278.2	11491.5	11791.5	12109.6	12599.4	12988.0	13369.3	13696.5	13823.0	13875.4
5°	8926.8	9239.4	9678.6	10242.5	11126.4	11921.6	12727.7	13539.2	13891.7	13980.2
7.5°	6405.4	6804.9	7363.4	8070.0	9105.7	10135.9	11261.9	12453.0	12998.8	13136.2
10°	4740.8	5228.8	5868.6	6613.3	7601.9	8661.1	9888.3	11249.3	11872.8	12055.4
12.5°	3363.6	4023.3	4880.0	5785.5	6642.2	7587.5	8829.2	10329.3	10983.6	11180.6
15°	1975.5	2613.5	3627.5	4840.2	5937.3	6895.2	8156.8	9857.6	10578.7	10777.5
17.5°	1133.2	1451.3	2217.7	3569.6	5058.9	6385.5	7945.3	9975.0	10824.5	11008.9
20°	865.7	967.0	1277.8	2299.0	4032.3	5884.9	7945.3	10640.2	11686.7	11957.8
22.5°	757.3	831.4	957.9	1371.8	2967.8	5348.1	8037.5	11601.7	12969.9	13269.9
25°	672.4	739.2	847.7	1032.0	2024.3	4710.1	8256.2	12781.9	14480.9	14869.5
27.5°	601.9	665.1	762.7	903.7	1384.5	3940.1	8550.8	14166.4	16147.3	16458.2
30°	538.6	598.2	686.8	786.2	1068.2	3067.2	8802.0	15471.4	17455.9	17790.2
32.5°	479.0	533.2	612.7	686.8	874.8	2268.3	8829.2	16505.2	18542.1	18874.7
35°	422.9	471.7	544.0	601.9	724.8	1791.1	8408.0	17401.7	19628.4	20067.6
37.5°	368.7	415.7	479.0	522.3	638.0	1460.4	7764.6	18401.2	21021.9	21428.5
40°	318.1	359.7	424.7	453.7	603.7	1122.4	7065.1	19449.4	22388.3	22760.6
42.5°	271.1	310.9	374.1	430.2	529.6	838.6	6309.6	20432.7	23617.3	24007.7
45°	225.9	267.5	330.8	455.5	439.2	627.2	5501.7	21085.1	24587.9	25012.6
47.5°	182.5	229.5	316.3	433.8	350.6	460.9	4861.9	21703.3	25323.5	25742.8
50°	146.4	193.4	356.1	386.8	287.4	352.4	4594.4	22256.3	25806.1	26209.1
52.5°	119.3	162.7	336.2	296.4	240.4	291.0	4739.0	23152.8	26252.5	26505.5
55°	99.4	128.3	202.4	206.0	204.2	247.6	4917.9	24439.7	27407.4	27526.7
57.5°	86.8	103.0	141.0	159.1	171.7	220.5	4921.6	26286.8	29194.9	29269.1
60°	74.1	90.4	117.5	128.3	148.2	197.0	4742.6	26932.1	29898.0	30143.8
62.5°	65.1	79.5	97.6	106.6	124.7	177.1	4323.3	25997.7	28932.9	29350.4
65°	57.8	72.3	81.3	90.4	110.3	159.1	3632.9	24128.8	27331.5	27767.1
67.5°	50.6	63.3	72.3	81.3	99.4	141.0	2675.0	21958.1	25493.4	25854.9
70°	45.2	56.0	65.1	72.3	86.8	119.3	1623.0	18632.5	22952.2	23102.2
72.5°	43.4	50.6	59.6	65.1	75.9	104.8	822.4	13692.9	18348.7	18592.7
75°	38.0	45.2	54.2	57.8	66.9	90.4	334.4	8993.6	13297.0	13689.3
77.5°	30.7	41.6	48.8	52.4	57.8	74.1	169.9	5747.5	9331.6	9584.6
80°	10.8	30.7	41.6	43.4	48.8	54.2	112.1	3146.7	5413.2	5521.6
82.5°	0.0	19.9	32.5	30.7	34.3	41.6	72.3	1496.5	3573.2	3613.0
85°	0.0	9.0	25.3	19.9	14.5	28.9	25.3	327.1	1874.3	1952.0
87.5°	0.0	0.0	1.8	9.0	7.2	10.8	3.6	1.8	169.9	215.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)