

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: P324303

Luminaire Tested: **GLEON-SA9D-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324303  
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-SA9D-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA 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: 37803 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

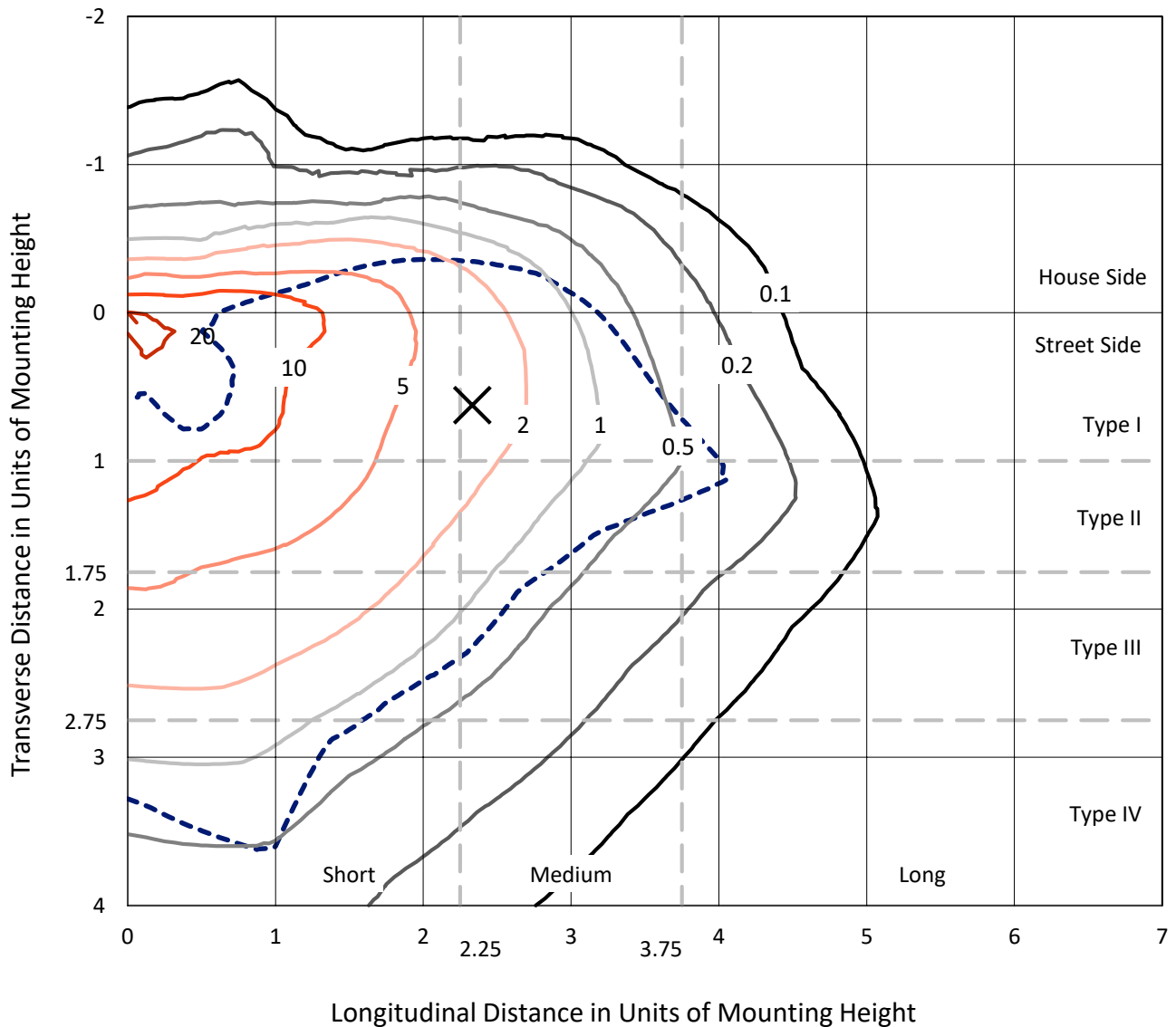
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

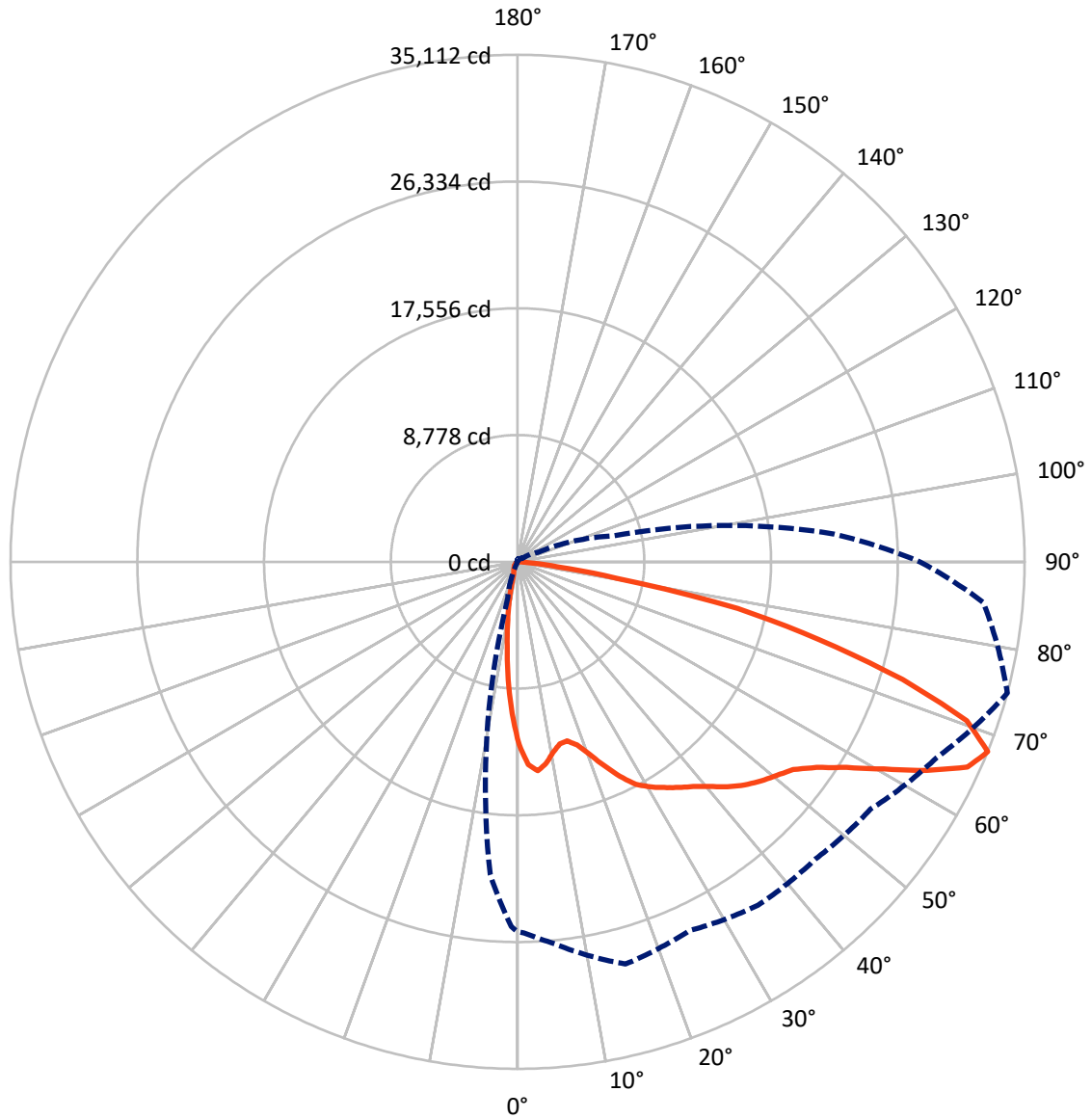
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.3 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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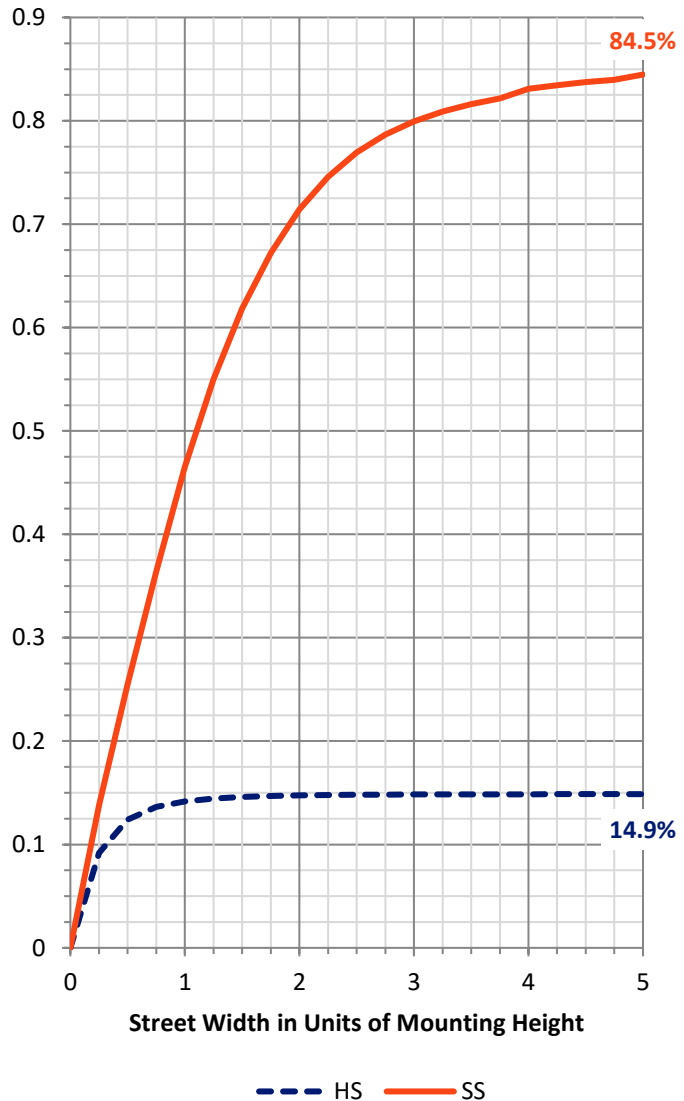
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5672.7	0.0	5672.7
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	32130.3	0.0	32130.3
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	37803.0	0.0	37803.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	962.0	2.5
10°-20°	1894.2	5.0
20°-30°	2679.8	7.1
30°-40°	3940.0	10.4
40°-50°	5663.1	15.0
50°-60°	7972.1	21.1
60°-70°	9310.7	24.6
70°-80°	4750.0	12.6
80°-90°	631.0	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°	37803.0	100.0
0°-180°	37803.0	100.0

**Coefficient of Utilization**

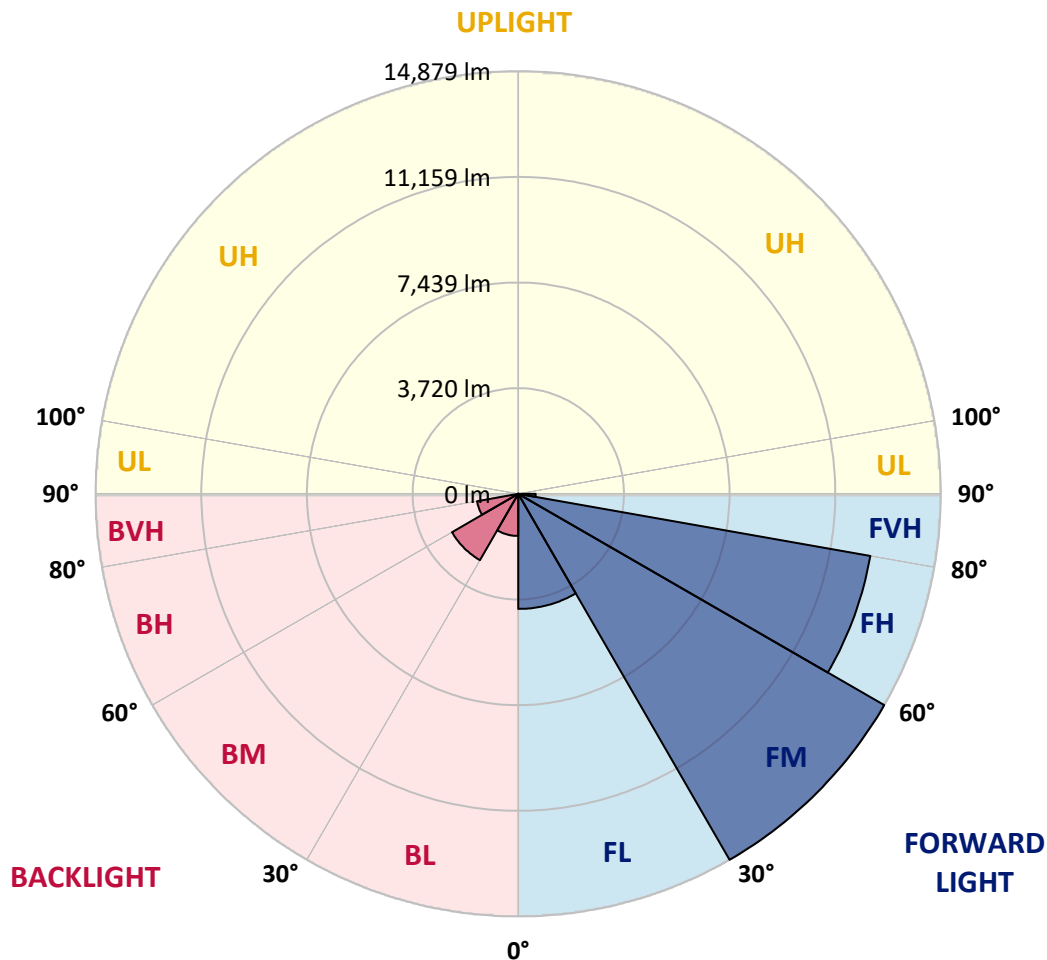


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4052.5	10.7			
FM (30°-60°)	14878.6	39.4			
FH (60°-80°)	12587.3	33.3			G5
FVH (80°-90°)	611.9	1.6			G4/750
BL (0°-30°)	1483.5	3.9	B3/2500		
BM (30°-60°)	2696.6	7.1	B3/5000		
BH (60°-80°)	1473.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	19.1	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°	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3
2.5°	13747.8	13769.3	13880.3	14138.2	14419.3	14440.8	14630.6	14435.4	14369.2	14054.0	13728.1
5°	13851.6	13934.0	14315.4	15072.9	15730.2	15941.5	16091.9	15708.7	15305.7	14535.7	13713.7
7.5°	13015.3	13153.2	13753.1	15175.0	16349.8	16869.1	16967.6	16367.7	15381.0	14113.1	12877.5
10°	11944.5	12102.0	12825.5	14573.3	16186.8	17076.8	17212.9	16426.8	15008.5	13429.0	11973.1
12.5°	11077.7	11262.2	12001.8	13896.4	15626.3	16611.2	16879.8	16228.0	14686.1	12943.7	11355.3
15°	10678.4	10889.7	11666.9	13459.5	15004.9	15780.3	16002.4	15721.2	14507.1	12866.7	11212.0
17.5°	10907.6	11136.8	11939.1	13497.1	14421.1	14752.4	14931.5	15046.1	14507.1	13330.5	11631.1
20°	11847.8	12094.9	12943.7	13878.5	13937.6	13814.0	14005.6	14408.6	14675.4	14211.6	12637.5
22.5°	13147.9	13438.0	14396.0	14532.1	13701.2	13233.8	13258.9	13891.0	14981.6	15329.0	14034.3
25°	14732.7	15087.3	16061.5	15506.3	13799.7	12888.2	12879.2	13464.8	15280.7	16448.3	15590.5
27.5°	16306.8	16697.2	17553.2	16695.4	14206.2	12825.5	12807.6	13335.9	15572.6	17443.9	17289.9
30°	17626.6	18006.2	18744.0	17556.7	14644.9	12972.4	12886.4	13473.8	15746.3	18090.4	18529.1
32.5°	18701.1	19005.5	19601.8	18149.5	15114.1	13257.1	13070.9	13842.7	16041.8	18636.6	19668.1
35°	19883.0	20203.5	20441.7	18713.6	15640.6	13667.2	13400.4	14428.3	16496.6	19191.7	20916.2
37.5°	21231.4	21550.2	21521.5	19229.3	16308.6	14345.9	14175.8	15355.9	17204.0	19741.5	22309.5
40°	22551.2	22877.1	22644.3	19793.4	17092.9	15465.1	15339.8	16749.1	18151.3	20445.3	23942.6
42.5°	23786.8	24139.6	23641.8	20327.1	18027.7	16876.3	17091.1	18543.5	19336.8	21312.0	25350.2
45°	24782.5	25142.5	24478.1	20846.4	19012.6	18588.2	19234.7	20531.2	20762.2	22044.4	26301.1
47.5°	25506.0	25846.2	25058.3	21365.7	20273.4	20681.6	21808.0	22615.7	22049.8	22680.2	26976.2
50°	25968.0	26233.0	25228.4	22015.8	21928.0	23124.3	24488.8	24882.8	23262.2	23253.2	27796.4
52.5°	26261.7	26381.7	25353.8	22694.5	23654.3	25783.6	27114.1	27237.7	24510.3	23883.6	28901.3
55°	27273.5	27370.2	26242.0	23516.4	25081.6	28113.4	29488.7	29374.1	25923.2	25117.4	30205.0
57.5°	28999.8	29101.9	28077.5	24698.4	26236.6	29553.1	31209.6	31415.5	27579.7	26850.9	31601.8
60°	29866.5	30056.3	29691.0	26195.4	27355.9	30473.6	32382.6	33039.8	29649.8	29135.9	32955.6
62.5°	29080.4	29356.2	29886.2	27855.5	28467.9	30980.4	32747.9	33621.8	31770.1	31798.8	33790.1
65°	27511.7	27731.9	28630.9	28765.2	29112.6	30917.7	31845.3	32808.8	33068.4	34245.0	33745.3
67.5°	25617.0	25699.4	26462.3	28836.8	28177.8	29033.8	29134.1	29846.8	32042.3	35111.7	32389.7
70°	22889.7	22934.4	23600.6	26439.0	24214.8	24402.9	24254.2	24399.3	27547.5	33000.4	28967.6
72.5°	18421.7	18534.5	19481.8	21956.7	17640.9	17098.3	18265.9	18201.4	21215.3	27880.6	21514.4
75°	13563.3	13758.5	15189.3	17685.7	12381.4	11199.5	12051.9	12279.3	15081.9	21566.3	13454.1
77.5°	9496.5	9641.5	11027.6	13001.0	8961.0	8008.3	7700.3	7970.7	9954.9	15601.2	6778.1
80°	5470.8	5524.5	6409.2	7506.9	6038.5	6908.8	6258.8	6445.0	5965.1	6941.0	2915.4
82.5°	3579.8	3588.7	3934.3	4468.0	3760.6	4369.5	3234.1	4134.9	3669.3	2788.2	949.1
85°	1934.0	1944.8	2281.4	3171.5	2129.2	1203.4	707.4	1452.3	2268.9	639.3	259.7
87.5°	213.1	195.2	687.7	1153.3	591.0	109.2	37.6	163.0	363.5	41.2	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°	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3
2.5°	13561.5	13412.9	13042.2	12650.0	12334.8	12039.4	11742.1	11378.6	11097.4	11040.1	10947.0
5°	13271.4	12800.5	12023.3	11242.5	10613.9	9820.6	9317.4	8925.2	8542.0	8518.7	8441.7
7.5°	12257.8	11638.2	10544.1	9464.2	8579.6	7823.9	7061.0	6550.7	6149.5	6008.0	5923.9
10°	11283.7	10587.1	9220.7	7988.6	7198.9	6531.0	5993.7	5460.1	4976.6	4643.5	4493.1
12.5°	10603.2	9833.1	8327.1	7265.2	6699.3	6065.4	5409.9	4743.8	4186.8	3785.7	3540.4
15°	10339.9	9518.0	8028.0	6978.6	6280.2	5478.0	4639.9	3878.8	3261.0	2897.5	2677.2
17.5°	10653.3	9697.0	8004.8	6629.4	5653.5	4656.0	3730.2	2831.2	2249.2	1973.4	1832.0
20°	11448.4	10266.5	7995.8	6201.4	4908.5	3681.8	2526.8	1862.4	1509.6	1355.6	1289.4
22.5°	12573.0	10993.6	8067.4	5778.8	4133.1	2630.6	1744.2	1368.2	1187.3	1104.9	1067.3
25°	14020.0	12014.3	8269.8	5395.6	3404.3	1962.7	1359.2	1146.1	1019.0	954.5	927.6
27.5°	15561.8	13189.0	8585.0	5062.5	2811.5	1565.1	1164.0	981.3	890.0	845.2	820.2
30°	16833.3	14550.0	8903.7	4691.8	2381.7	1364.6	1065.5	895.4	789.7	761.1	737.8
32.5°	17945.3	15579.7	9129.4	4357.0	2100.6	1212.4	963.4	800.5	728.8	673.3	648.3
35°	19096.8	16437.5	9122.2	4122.4	1907.2	1097.7	877.5	716.3	630.4	565.9	546.2
37.5°	20343.2	17406.3	8966.4	3921.8	1823.0	1006.4	829.1	671.5	585.6	521.1	496.0
40°	21802.7	18423.5	8807.0	3733.8	1799.7	933.0	795.1	635.7	544.4	481.7	456.6
42.5°	23224.5	19340.4	8667.3	3594.1	1699.4	931.2	764.7	608.9	512.2	451.3	422.6
45°	24361.7	20194.6	8640.5	3509.9	1593.8	963.4	748.5	591.0	487.1	426.2	399.3
47.5°	25307.2	21122.2	8812.4	3450.8	1493.5	879.3	787.9	578.4	463.8	404.7	374.3
50°	26431.8	22261.1	9217.1	3354.1	1387.8	791.5	902.5	582.0	444.1	383.2	351.0
52.5°	28000.5	23837.0	9811.6	3191.2	1242.8	710.9	888.2	585.6	422.6	359.9	327.7
55°	29759.1	25805.1	10451.0	2920.8	1040.4	605.3	761.1	560.5	381.4	334.9	304.4
57.5°	31607.2	27590.5	10830.6	2598.4	827.3	522.9	608.9	510.4	336.7	300.8	281.2
60°	31897.3	28269.2	10656.9	2202.7	657.2	454.9	451.3	519.3	300.8	265.0	250.7
62.5°	31175.6	27416.7	9817.0	1849.9	549.8	399.3	370.7	453.1	272.2	236.4	222.1
65°	29787.7	25112.0	8456.0	1667.2	510.4	342.0	308.0	318.8	238.2	205.9	193.4
67.5°	27857.3	22035.5	6942.8	1563.3	505.0	293.7	263.2	241.8	205.9	179.1	168.3
70°	23910.4	18357.2	5538.9	1506.0	490.7	247.1	222.1	197.0	171.9	152.2	143.3
72.5°	17597.9	13008.2	4308.6	1443.4	494.3	197.0	193.4	163.0	137.9	118.2	114.6
75°	10168.0	7431.7	2825.8	1169.4	471.0	152.2	161.2	114.6	96.7	82.4	82.4
77.5°	5418.9	4532.4	1076.3	487.1	171.9	96.7	91.3	68.0	60.9	50.1	48.4
80°	2362.0	1994.9	324.1	136.1	94.9	51.9	34.0	30.4	26.9	21.5	19.7
82.5°	836.3	721.7	105.7	66.3	41.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	189.8	136.1	0.0	16.1	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°	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3
2.5°	10757.2	10717.8	10485.0	10493.9	10535.1	10594.2	10454.5	10519.0	10692.7	10859.3	10921.9
5°	8318.1	8327.1	8185.6	8273.4	8352.2	8405.9	8180.3	8183.8	8321.7	8509.8	8608.2
7.5°	5861.2	5846.9	5854.0	6063.6	6212.2	6104.7	6188.9	5897.0	5914.9	6049.2	5949.0
10°	4357.0	4160.0	4048.9	4206.5	4369.5	4310.4	4165.3	4070.4	4136.7	4285.3	4274.6
12.5°	3424.0	3141.0	2974.5	2861.7	2996.0	2884.9	2881.4	2799.0	2709.4	2725.6	2963.7
15°	2575.1	2369.2	2172.2	1991.3	1987.8	1950.2	1758.5	1543.6	1525.7	1536.5	1660.0
17.5°	1771.1	1701.2	1620.7	1464.9	1423.7	1266.1	1079.8	993.9	950.9	970.6	1011.8
20°	1244.6	1217.7	1226.7	1142.5	1083.4	933.0	823.8	789.7	782.6	802.3	822.0
22.5°	1031.5	983.1	977.8	940.2	881.1	771.8	712.7	693.0	684.1	702.0	716.3
25°	902.5	854.2	834.5	811.2	748.5	673.3	637.5	619.6	610.7	621.4	630.4
27.5°	795.1	750.3	732.4	716.3	655.4	601.7	573.0	556.9	549.8	553.3	562.3
30°	714.5	675.1	651.8	632.1	580.2	542.6	517.5	501.4	494.3	494.3	503.2
32.5°	630.4	608.9	587.4	562.3	514.0	488.9	463.8	445.9	438.7	440.5	447.7
35°	524.7	517.5	522.9	499.6	458.4	436.9	411.9	392.2	386.8	388.6	395.8
37.5°	465.6	433.4	453.1	440.5	417.3	388.6	356.4	338.5	329.5	334.9	338.5
40°	428.0	388.6	374.3	386.8	383.2	336.7	308.0	290.1	282.9	284.7	288.3
42.5°	395.8	349.2	317.0	315.2	336.7	293.7	263.2	247.1	238.2	238.2	241.8
45°	365.3	315.2	275.8	245.3	282.9	248.9	220.3	205.9	195.2	195.2	197.0
47.5°	342.0	286.5	240.0	200.6	213.1	204.1	180.9	166.5	155.8	155.8	157.6
50°	320.5	257.9	207.7	168.3	159.4	168.3	146.8	130.7	123.6	121.8	125.4
52.5°	297.3	229.2	177.3	143.3	125.4	127.1	114.6	103.9	94.9	94.9	98.5
55°	274.0	205.9	154.0	121.8	103.9	94.9	91.3	84.2	77.0	77.0	80.6
57.5°	250.7	180.9	130.7	100.3	82.4	75.2	75.2	69.8	64.5	64.5	68.0
60°	229.2	155.8	107.4	82.4	64.5	62.7	64.5	59.1	55.5	55.5	59.1
62.5°	204.1	132.5	87.7	68.0	51.9	50.1	55.5	51.9	48.4	48.4	51.9
65°	173.7	112.8	69.8	51.9	39.4	39.4	46.6	43.0	39.4	39.4	43.0
67.5°	146.8	94.9	53.7	37.6	28.7	30.4	39.4	35.8	34.0	34.0	37.6
70°	121.8	73.4	37.6	23.3	16.1	23.3	30.4	30.4	30.4	30.4	34.0
72.5°	91.3	50.1	21.5	9.0	7.2	16.1	25.1	28.7	26.9	26.9	32.2
75°	59.1	28.7	7.2	0.0	0.0	9.0	19.7	23.3	23.3	21.5	26.9
77.5°	34.0	9.0	0.0	0.0	0.0	0.0	12.5	10.7	9.0	7.2	12.5
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: P324303

CATALOG NUMBER: GLEON-SA9D-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3	12682.3
2.5°	11174.4	11385.7	11683.0	11998.2	12483.5	12868.5	13246.4	13570.5	13695.8	13747.8
5°	8844.6	9154.4	9589.6	10148.3	11024.0	11811.9	12610.6	13414.7	13763.9	13851.6
7.5°	6346.5	6742.3	7295.6	7995.8	9021.9	10042.7	11158.3	12338.4	12879.2	13015.3
10°	4697.2	5180.7	5814.6	6552.4	7532.0	8581.4	9797.3	11145.8	11763.6	11944.5
12.5°	3332.6	3986.3	4835.1	5732.3	6581.1	7517.7	8747.9	10234.3	10882.5	11077.7
15°	1957.3	2589.5	3594.1	4795.7	5882.7	6831.8	8081.8	9766.9	10481.4	10678.4
17.5°	1122.8	1438.0	2197.3	3536.8	5012.4	6326.8	7872.2	9883.3	10724.9	10907.6
20°	857.8	958.1	1266.1	2277.9	3995.2	5830.8	7872.2	10542.3	11579.1	11847.8
22.5°	750.3	823.8	949.1	1359.2	2940.5	5298.9	7963.6	11495.0	12850.6	13147.9
25°	666.2	732.4	839.9	1022.5	2005.7	4666.8	8180.3	12664.4	14347.7	14732.7
27.5°	596.3	659.0	755.7	895.4	1371.7	3903.9	8472.2	14036.1	15998.8	16306.8
30°	533.7	592.7	680.5	779.0	1058.3	3038.9	8721.1	15329.0	17295.3	17626.6
32.5°	474.6	528.3	607.1	680.5	866.7	2247.4	8747.9	16353.3	18371.5	18701.1
35°	419.0	467.4	539.0	596.3	718.1	1774.7	8330.7	17241.6	19447.8	19883.0
37.5°	365.3	411.9	474.6	517.5	632.1	1446.9	7693.2	18231.9	20828.5	21231.4
40°	315.2	356.4	420.8	449.5	598.1	1112.1	7000.1	19270.5	22182.3	22551.2
42.5°	268.6	308.0	370.7	426.2	524.7	830.9	6251.6	20244.7	23400.0	23786.8
45°	223.8	265.0	327.7	451.3	435.2	621.4	5451.1	20891.2	24361.7	24782.5
47.5°	180.9	227.4	313.4	429.8	347.4	456.6	4817.2	21503.6	25090.5	25506.0
50°	145.1	191.6	352.8	383.2	284.7	349.2	4552.1	22051.6	25568.7	25968.0
52.5°	118.2	161.2	333.1	293.7	238.2	288.3	4695.4	22939.8	26011.0	26261.7
55°	98.5	127.1	200.6	204.1	202.4	245.3	4872.7	24214.8	27155.3	27273.5
57.5°	86.0	102.1	139.7	157.6	170.1	218.5	4876.3	26045.0	28926.4	28999.8
60°	73.4	89.5	116.4	127.1	146.8	195.2	4699.0	26684.3	29623.0	29866.5
62.5°	64.5	78.8	96.7	105.7	123.6	175.5	4283.5	25758.5	28666.7	29080.4
65°	57.3	71.6	80.6	89.5	109.2	157.6	3599.5	23906.8	27080.1	27511.7
67.5°	50.1	62.7	71.6	80.6	98.5	139.7	2650.3	21756.1	25258.9	25617.0
70°	44.8	55.5	64.5	71.6	86.0	118.2	1608.1	18461.1	22741.0	22889.7
72.5°	43.0	50.1	59.1	64.5	75.2	103.9	814.8	13566.9	18179.9	18421.7
75°	37.6	44.8	53.7	57.3	66.3	89.5	331.3	8910.9	13174.7	13563.3
77.5°	30.4	41.2	48.4	51.9	57.3	73.4	168.3	5694.7	9245.8	9496.5
80°	10.7	30.4	41.2	43.0	48.4	53.7	111.0	3117.7	5363.4	5470.8
82.5°	0.0	19.7	32.2	30.4	34.0	41.2	71.6	1482.8	3540.4	3579.8
85°	0.0	9.0	25.1	19.7	14.3	28.7	25.1	324.1	1857.0	1934.0
87.5°	0.0	0.0	1.8	9.0	7.2	10.7	3.6	1.8	168.3	213.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)