

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: P324274

Luminaire Tested: **GLEON-SA0A-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324274  
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-SA0A-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 25138 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

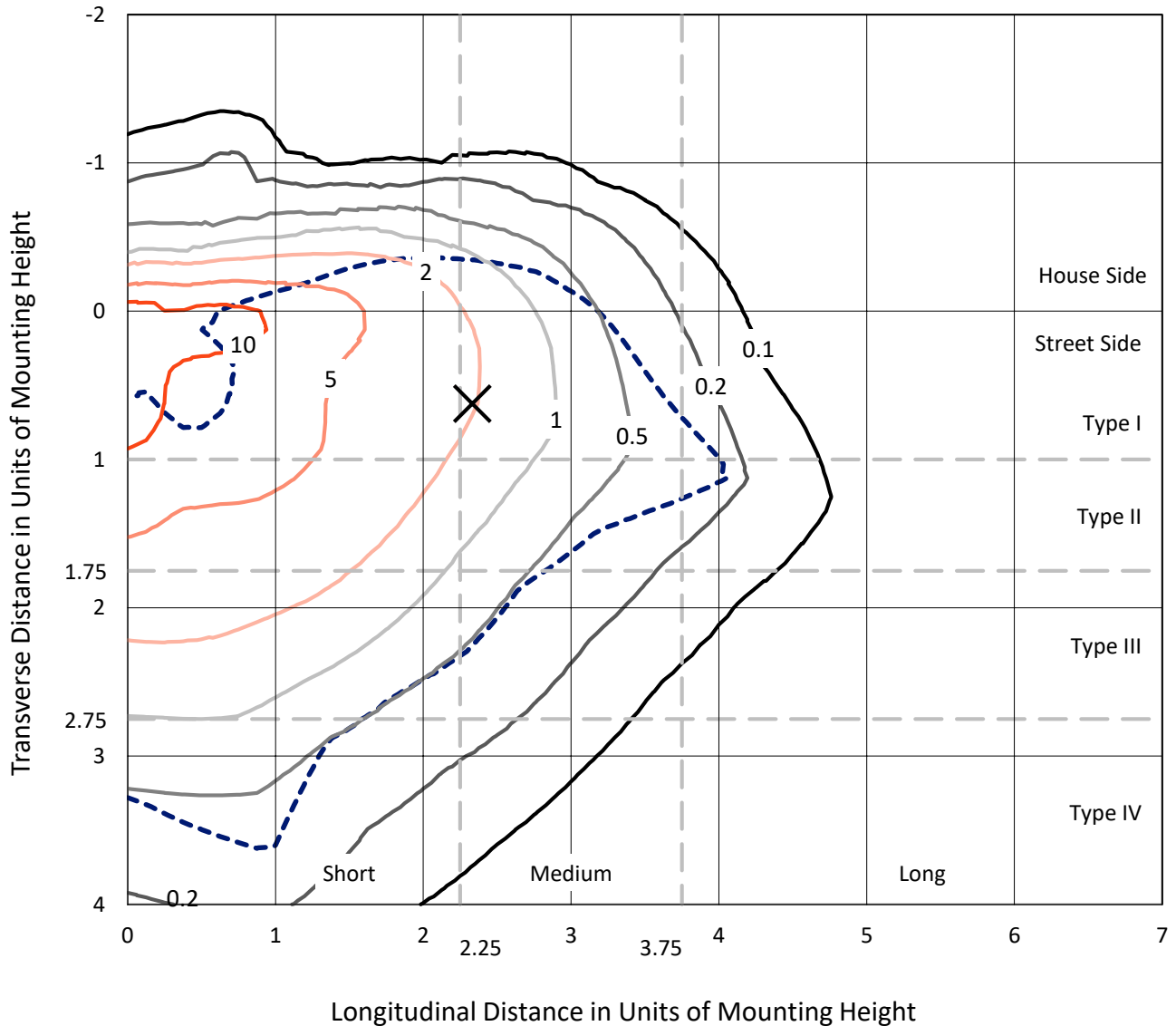
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

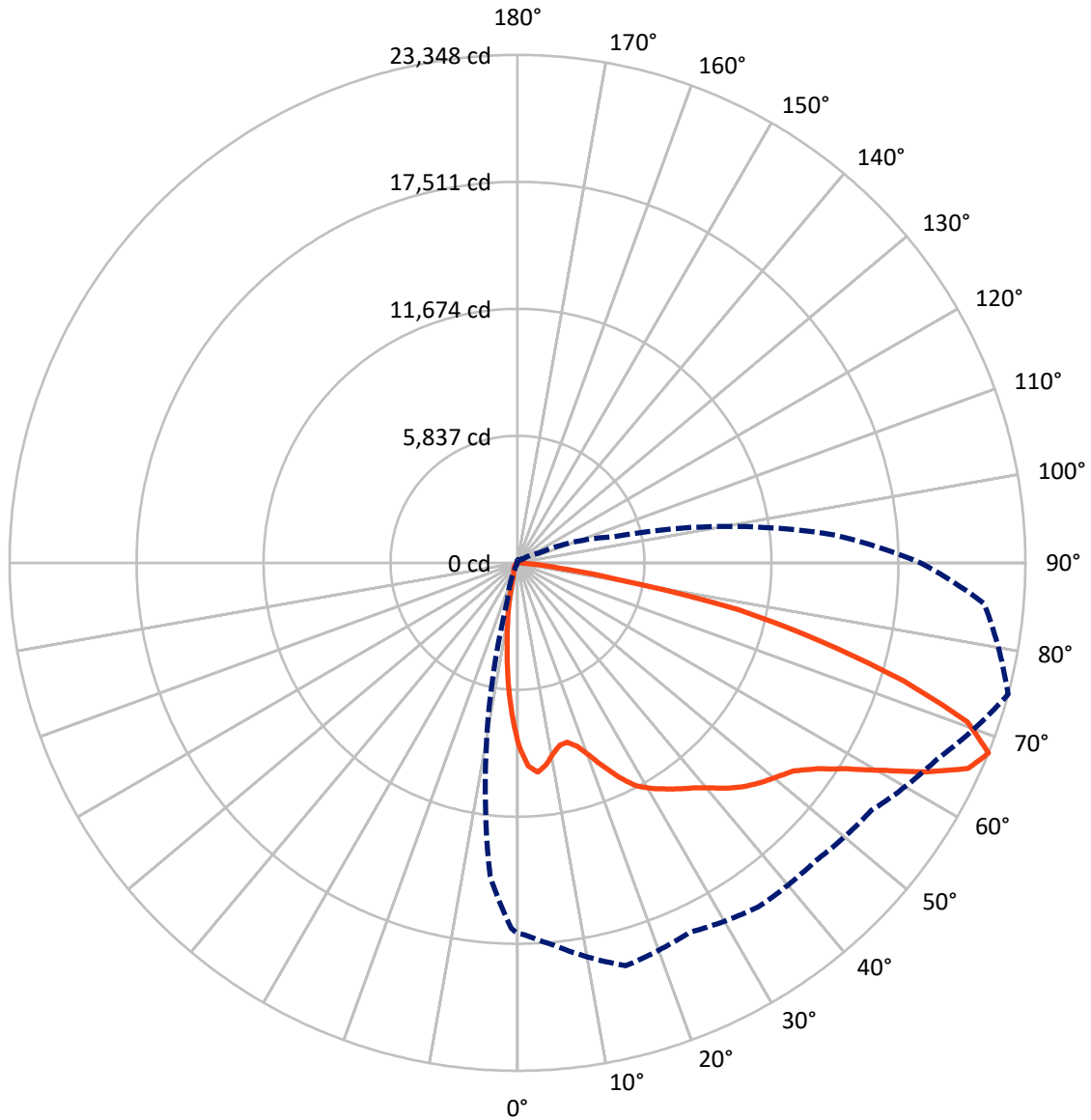
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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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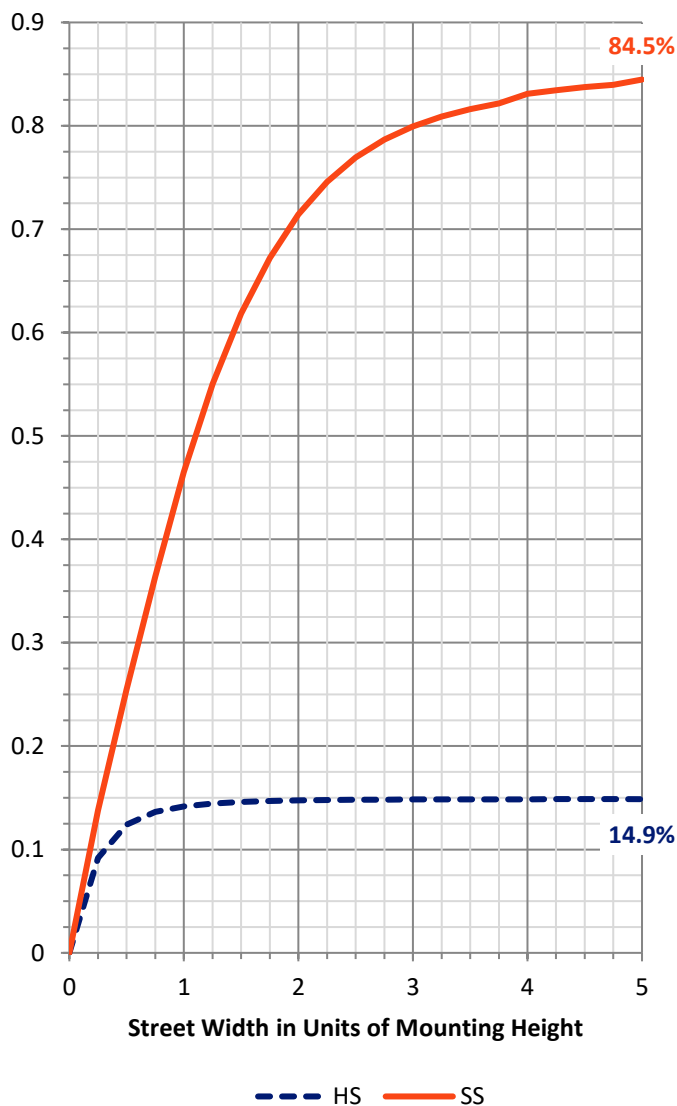
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3772.2	0.0	3772.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	21365.8	0.0	21365.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	25138.0	0.0	25138.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.7	2.5
10°-20°	1259.6	5.0
20°-30°	1782.0	7.1
30°-40°	2620.0	10.4
40°-50°	3765.8	15.0
50°-60°	5301.3	21.1
60°-70°	6191.4	24.6
70°-80°	3158.6	12.6
80°-90°	419.6	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°	25138.0	100.0
0°-180°	25138.0	100.0

**Coefficient of Utilization**

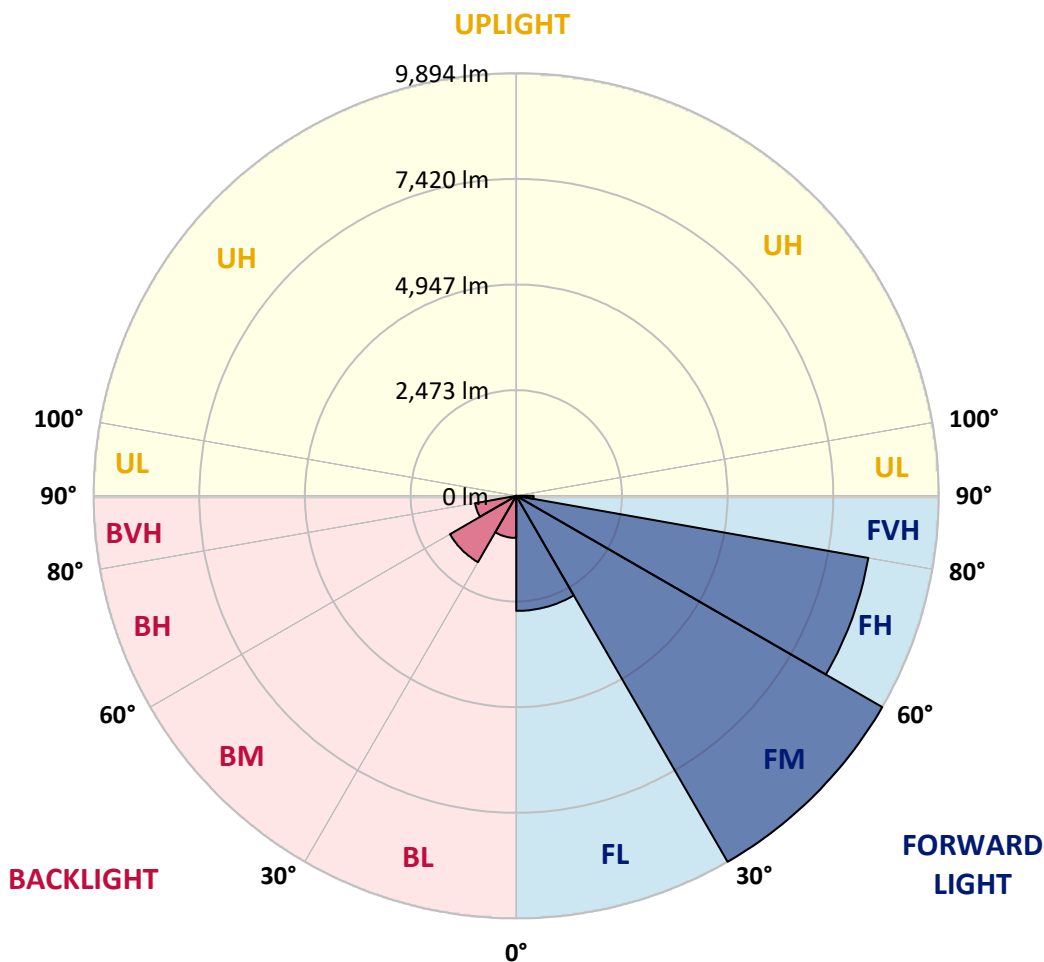


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2694.8	10.7			
FM (30°-60°)	9893.9	39.4			
FH (60°-80°)	8370.2	33.3			G4/12000
FVH (80°-90°)	406.9	1.6			G3/500
BL (0°-30°)	986.5	3.9	B2/1000		
BM (30°-60°)	1793.2	7.1	B2/2500		
BH (60°-80°)	979.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	12.7	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°	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4
2.5°	9141.9	9156.2	9230.0	9401.5	9588.5	9602.8	9729.0	9599.2	9555.1	9345.5	9128.8
5°	9211.0	9265.8	9519.4	10023.1	10460.1	10600.7	10700.7	10445.9	10177.9	9665.9	9119.3
7.5°	8654.9	8746.6	9145.5	10091.0	10872.2	11217.5	11283.0	10884.1	10227.9	9384.8	8563.2
10°	7942.8	8047.5	8528.6	9690.9	10763.8	11355.6	11446.1	10923.4	9980.2	8929.9	7961.8
12.5°	7366.4	7489.1	7980.9	9240.7	10391.1	11046.0	11224.6	10791.2	9765.9	8607.2	7551.0
15°	7100.8	7241.4	7758.2	8950.2	9977.9	10493.5	10641.1	10454.2	9646.8	8556.0	7455.7
17.5°	7253.3	7405.7	7939.2	8975.2	9589.7	9810.0	9929.0	10005.2	9646.8	8864.4	7734.4
20°	7878.4	8042.8	8607.2	9228.8	9268.1	9186.0	9313.4	9581.3	9758.7	9450.3	8403.6
22.5°	8743.0	8935.9	9573.0	9663.5	9110.9	8800.1	8816.8	9237.2	9962.4	10193.4	9332.4
25°	9796.9	10032.6	10680.4	10311.3	9176.4	8570.3	8564.4	8953.8	10161.2	10937.7	10367.3
27.5°	10843.6	11103.2	11672.4	11102.0	9446.8	8528.6	8516.7	8868.0	10355.3	11599.8	11497.3
30°	11721.2	11973.7	12464.3	11674.8	9738.5	8626.3	8569.1	8959.7	10470.9	12029.6	12321.4
32.5°	12435.7	12638.1	13034.7	12068.9	10050.5	8815.6	8691.8	9205.0	10667.3	12392.8	13078.7
35°	13221.6	13434.8	13593.2	12444.0	10400.6	9088.3	8910.9	9594.4	10969.8	12762.0	13908.7
37.5°	14118.3	14330.3	14311.2	12787.0	10844.8	9539.6	9426.5	10211.3	11440.2	13127.6	14835.2
40°	14996.0	15212.7	15057.9	13162.1	11366.4	10283.9	10200.5	11137.7	12070.1	13595.6	15921.2
42.5°	15817.6	16052.2	15721.2	13517.0	11988.0	11222.3	11365.2	12330.9	12858.4	14171.9	16857.2
45°	16479.7	16719.1	16277.3	13862.3	12642.9	12360.7	12790.6	13652.7	13806.3	14659.0	17489.5
47.5°	16960.8	17187.1	16663.1	14207.6	13481.2	13752.8	14501.8	15038.8	14662.5	15081.7	17938.5
50°	17268.0	17444.3	16776.2	14639.9	14581.6	15377.0	16284.4	16546.4	15468.7	15462.8	18483.9
52.5°	17463.3	17543.1	16859.6	15091.2	15729.5	17145.4	18030.2	18112.3	16298.7	15881.9	19218.6
55°	18136.1	18200.5	17450.2	15637.8	16678.6	18694.6	19609.2	19533.0	17238.3	16702.4	20085.5
57.5°	19284.1	19352.0	18670.8	16423.8	17446.7	19652.1	20753.6	20890.5	18339.8	17855.1	21014.4
60°	19860.5	19986.7	19743.8	17419.3	18190.9	20264.1	21533.6	21970.6	19716.4	19374.6	21914.6
62.5°	19337.7	19521.1	19873.6	18523.2	18930.4	20601.1	21776.5	22357.6	21126.3	21145.3	22469.5
65°	18294.5	18441.0	19038.8	19128.1	19359.1	20559.5	21176.3	21817.0	21989.6	22772.0	22439.8
67.5°	17034.6	17089.4	17596.7	19175.7	18737.5	19306.7	19373.4	19847.4	21307.3	23348.4	21538.3
70°	15221.0	15250.8	15693.8	17581.2	16102.2	16227.3	16128.4	16224.9	18318.3	21944.4	19262.7
72.5°	12249.9	12325.0	12954.9	14600.6	11730.7	11369.9	12146.3	12103.5	14107.6	18539.8	14306.5
75°	9019.3	9149.1	10100.5	11760.5	8233.3	7447.4	8014.2	8165.4	10029.1	14341.0	8946.6
77.5°	6314.9	6411.4	7333.1	8645.3	5958.9	5325.3	5120.5	5300.3	6619.8	10374.4	4507.2
80°	3637.9	3673.7	4261.9	4991.9	4015.4	4594.2	4161.9	4285.8	3966.6	4615.6	1938.7
82.5°	2380.4	2386.4	2616.2	2971.1	2500.7	2905.6	2150.6	2749.6	2440.0	1854.1	631.1
85°	1286.1	1293.2	1517.1	2108.9	1415.9	800.2	470.4	965.8	1508.8	425.1	172.7
87.5°	141.7	129.8	457.3	766.9	393.0	72.6	25.0	108.4	241.7	27.4	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°	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4
2.5°	9018.1	8919.2	8672.7	8411.9	8202.4	8005.9	7808.2	7566.5	7379.5	7341.4	7279.5
5°	8825.1	8512.0	7995.1	7476.0	7058.0	6530.4	6195.8	5935.0	5680.2	5664.7	5613.5
7.5°	8151.1	7739.1	7011.5	6293.5	5705.2	5202.7	4695.4	4356.0	4089.3	3995.2	3939.2
10°	7503.3	7040.1	6131.5	5312.2	4787.1	4342.9	3985.7	3630.8	3309.3	3087.8	2987.8
12.5°	7050.8	6538.8	5537.3	4831.1	4454.8	4033.3	3597.5	3154.5	2784.1	2517.4	2354.2
15°	6875.8	6329.2	5338.4	4640.6	4176.2	3642.7	3085.4	2579.3	2168.5	1926.7	1780.3
17.5°	7084.2	6448.3	5323.0	4408.4	3759.4	3096.1	2480.5	1882.7	1495.7	1312.3	1218.2
20°	7612.9	6827.0	5317.0	4123.8	3264.0	2448.3	1680.2	1238.5	1003.9	901.4	857.4
22.5°	8360.7	7310.4	5364.6	3842.8	2748.4	1749.3	1159.9	909.8	789.5	734.7	709.7
25°	9322.9	7989.2	5499.2	3587.9	2263.7	1305.1	903.8	762.1	677.6	634.7	616.8
27.5°	10348.2	8770.4	5708.8	3366.4	1869.6	1040.8	774.0	652.6	591.8	562.1	545.4
30°	11193.7	9675.4	5920.7	3119.9	1583.8	907.4	708.5	595.4	525.2	506.1	490.6
32.5°	11933.2	10360.1	6070.8	2897.3	1396.8	806.2	640.7	532.3	484.7	447.7	431.1
35°	12698.9	10930.5	6066.0	2741.3	1268.2	730.0	583.5	476.3	419.2	376.3	363.2
37.5°	13527.7	11574.7	5962.4	2607.9	1212.3	669.2	551.3	446.6	389.4	346.5	329.9
40°	14498.2	12251.1	5856.4	2482.9	1196.8	620.4	528.7	422.7	362.0	320.3	303.7
42.5°	15443.7	12860.8	5763.6	2390.0	1130.1	619.2	508.5	404.9	340.6	300.1	281.0
45°	16199.9	13428.8	5745.7	2334.0	1059.8	640.7	497.8	393.0	323.9	283.4	265.6
47.5°	16828.6	14045.7	5860.0	2294.7	993.1	584.7	524.0	384.6	308.4	269.1	248.9
50°	17576.5	14803.1	6129.1	2230.4	922.9	526.3	600.2	387.0	295.3	254.8	233.4
52.5°	18619.6	15851.0	6524.5	2122.0	826.4	472.8	590.6	389.4	281.0	239.4	217.9
55°	19789.0	17159.7	6949.6	1942.2	691.9	402.5	506.1	372.7	253.6	222.7	202.4
57.5°	21017.9	18346.9	7202.1	1727.9	550.2	347.7	404.9	339.4	223.9	200.1	187.0
60°	21210.8	18798.2	7086.6	1464.7	437.0	302.5	300.1	345.3	200.1	176.2	166.7
62.5°	20730.9	18231.4	6528.1	1230.1	365.6	265.6	246.5	301.3	181.0	157.2	147.7
65°	19808.1	16698.8	5623.0	1108.7	339.4	227.4	204.8	212.0	158.4	136.9	128.6
67.5°	18524.4	14653.0	4616.8	1039.6	335.8	195.3	175.1	160.8	136.9	119.1	111.9
70°	15899.8	12207.1	3683.2	1001.5	326.3	164.3	147.7	131.0	114.3	101.2	95.3
72.5°	11702.2	8650.1	2865.1	959.8	328.7	131.0	128.6	108.4	91.7	78.6	76.2
75°	6761.5	4941.9	1879.1	777.6	313.2	101.2	107.2	76.2	64.3	54.8	54.8
77.5°	3603.4	3014.0	715.7	323.9	114.3	64.3	60.7	45.3	40.5	33.3	32.2
80°	1570.7	1326.6	215.5	90.5	63.1	34.5	22.6	20.2	17.9	14.3	13.1
82.5°	556.1	479.9	70.3	44.1	27.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	126.2	90.5	0.0	10.7	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°	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4
2.5°	7153.2	7127.0	6972.2	6978.2	7005.6	7044.9	6952.0	6994.9	7110.4	7221.1	7262.8
5°	5531.3	5537.3	5443.2	5501.6	5554.0	5589.7	5439.7	5442.0	5533.7	5658.8	5724.3
7.5°	3897.5	3888.0	3892.8	4032.1	4130.9	4059.5	4115.5	3921.4	3933.3	4022.6	3955.9
10°	2897.3	2766.3	2692.4	2797.2	2905.6	2866.3	2769.8	2706.7	2750.8	2849.6	2842.5
12.5°	2276.8	2088.7	1977.9	1902.9	1992.2	1918.4	1916.0	1861.2	1801.7	1812.4	1970.8
15°	1712.4	1575.5	1444.5	1324.2	1321.8	1296.8	1169.4	1026.5	1014.6	1021.7	1103.9
17.5°	1177.7	1131.3	1077.7	974.1	946.7	841.9	718.1	660.9	632.3	645.4	672.8
20°	827.6	809.8	815.7	759.7	720.4	620.4	547.8	525.2	520.4	533.5	546.6
22.5°	685.9	653.8	650.2	625.2	585.9	513.2	473.9	460.8	454.9	466.8	476.3
25°	600.2	568.0	554.9	539.4	497.8	447.7	423.9	412.0	406.1	413.2	419.2
27.5°	528.7	499.0	487.0	476.3	435.8	400.1	381.1	370.3	365.6	368.0	373.9
30°	475.1	448.9	433.5	420.4	385.8	360.8	344.1	333.4	328.7	328.7	334.6
32.5°	419.2	404.9	390.6	373.9	341.8	325.1	308.4	296.5	291.8	292.9	297.7
35°	348.9	344.1	347.7	332.2	304.8	290.6	273.9	260.8	257.2	258.4	263.2
37.5°	309.6	288.2	301.3	292.9	277.5	258.4	237.0	225.1	219.1	222.7	225.1
40°	284.6	258.4	248.9	257.2	254.8	223.9	204.8	192.9	188.1	189.3	191.7
42.5°	263.2	232.2	210.8	209.6	223.9	195.3	175.1	164.3	158.4	158.4	160.8
45°	242.9	209.6	183.4	163.1	188.1	165.5	146.5	136.9	129.8	129.8	131.0
47.5°	227.4	190.5	159.6	133.4	141.7	135.8	120.3	110.7	103.6	103.6	104.8
50°	213.2	171.5	138.1	111.9	106.0	111.9	97.6	86.9	82.2	81.0	83.4
52.5°	197.7	152.4	117.9	95.3	83.4	84.5	76.2	69.1	63.1	63.1	65.5
55°	182.2	136.9	102.4	81.0	69.1	63.1	60.7	56.0	51.2	51.2	53.6
57.5°	166.7	120.3	86.9	66.7	54.8	50.0	50.0	46.4	42.9	42.9	45.3
60°	152.4	103.6	71.4	54.8	42.9	41.7	42.9	39.3	36.9	36.9	39.3
62.5°	135.8	88.1	58.4	45.3	34.5	33.3	36.9	34.5	32.2	32.2	34.5
65°	115.5	75.0	46.4	34.5	26.2	26.2	31.0	28.6	26.2	26.2	28.6
67.5°	97.6	63.1	35.7	25.0	19.1	20.2	26.2	23.8	22.6	22.6	25.0
70°	81.0	48.8	25.0	15.5	10.7	15.5	20.2	20.2	20.2	20.2	22.6
72.5°	60.7	33.3	14.3	6.0	4.8	10.7	16.7	19.1	17.9	17.9	21.4
75°	39.3	19.1	4.8	0.0	0.0	6.0	13.1	15.5	15.5	14.3	17.9
77.5°	22.6	6.0	0.0	0.0	0.0	0.0	8.3	7.1	6.0	4.8	8.3
80°	6.0	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: P324274  
 CATALOG NUMBER: GLEON-SA0A-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4	8433.4
2.5°	7430.7	7571.2	7768.9	7978.5	8301.2	8557.2	8808.5	9024.0	9107.4	9141.9
5°	5881.4	6087.5	6376.8	6748.4	7330.7	7854.6	8385.7	8920.4	9152.6	9211.0
7.5°	4220.3	4483.4	4851.4	5317.0	5999.3	6678.1	7420.0	8204.7	8564.4	8654.9
10°	3123.5	3445.0	3866.6	4357.2	5008.6	5706.4	6515.0	7411.6	7822.5	7942.8
12.5°	2216.1	2650.8	3215.2	3811.8	4376.3	4999.1	5817.1	6805.5	7236.6	7366.4
15°	1301.6	1721.9	2390.0	3189.0	3911.8	4543.0	5374.2	6494.7	6969.9	7100.8
17.5°	746.6	956.2	1461.1	2351.9	3333.1	4207.2	5234.8	6572.1	7131.8	7253.3
20°	570.4	637.1	841.9	1514.7	2656.7	3877.3	5234.8	7010.3	7699.8	7878.4
22.5°	499.0	547.8	631.1	903.8	1955.3	3523.6	5295.6	7643.9	8545.3	8743.0
25°	443.0	487.0	558.5	680.0	1333.7	3103.3	5439.7	8421.5	9540.8	9796.9
27.5°	396.5	438.2	502.5	595.4	912.2	2596.0	5633.8	9333.6	10638.8	10843.6
30°	354.9	394.2	452.5	518.0	703.8	2020.8	5799.3	10193.4	11500.9	11721.2
32.5°	315.6	351.3	403.7	452.5	576.4	1494.5	5817.1	10874.5	12216.6	12435.7
35°	278.7	310.8	358.4	396.5	477.5	1180.1	5539.7	11465.2	12932.3	13221.6
37.5°	242.9	273.9	315.6	344.1	420.4	962.2	5115.8	12123.7	13850.4	14118.3
40°	209.6	237.0	279.8	298.9	397.7	739.5	4654.9	12814.4	14750.7	14996.0
42.5°	178.6	204.8	246.5	283.4	348.9	552.5	4157.1	13462.2	15560.4	15817.6
45°	148.9	176.2	217.9	300.1	289.4	413.2	3624.8	13892.1	16199.9	16479.7
47.5°	120.3	151.2	208.4	285.8	231.0	303.7	3203.3	14299.3	16684.5	16960.8
50°	96.5	127.4	234.6	254.8	189.3	232.2	3027.1	14663.7	17002.5	17268.0
52.5°	78.6	107.2	221.5	195.3	158.4	191.7	3122.3	15254.4	17296.6	17463.3
55°	65.5	84.5	133.4	135.8	134.6	163.1	3240.2	16102.2	18057.6	18136.1
57.5°	57.2	67.9	92.9	104.8	113.1	145.3	3242.6	17319.2	19235.3	19284.1
60°	48.8	59.5	77.4	84.5	97.6	129.8	3124.7	17744.4	19698.5	19860.5
62.5°	42.9	52.4	64.3	70.3	82.2	116.7	2848.4	17128.7	19062.6	19337.7
65°	38.1	47.6	53.6	59.5	72.6	104.8	2393.5	15897.4	18007.5	18294.5
67.5°	33.3	41.7	47.6	53.6	65.5	92.9	1762.4	14467.2	16796.5	17034.6
70°	29.8	36.9	42.9	47.6	57.2	78.6	1069.4	12276.1	15122.2	15221.0
72.5°	28.6	33.3	39.3	42.9	50.0	69.1	541.8	9021.6	12089.2	12249.9
75°	25.0	29.8	35.7	38.1	44.1	59.5	220.3	5925.5	8760.8	9019.3
77.5°	20.2	27.4	32.2	34.5	38.1	48.8	111.9	3786.8	6148.2	6314.9
80°	7.1	20.2	27.4	28.6	32.2	35.7	73.8	2073.2	3566.5	3637.9
82.5°	0.0	13.1	21.4	20.2	22.6	27.4	47.6	986.0	2354.2	2380.4
85°	0.0	6.0	16.7	13.1	9.5	19.1	16.7	215.5	1234.9	1286.1
87.5°	0.0	0.0	1.2	6.0	4.8	7.1	2.4	1.2	111.9	141.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)