

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: P324290

Luminaire Tested: **GLEON-SA6C-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324290  
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-SA6C-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 23055 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

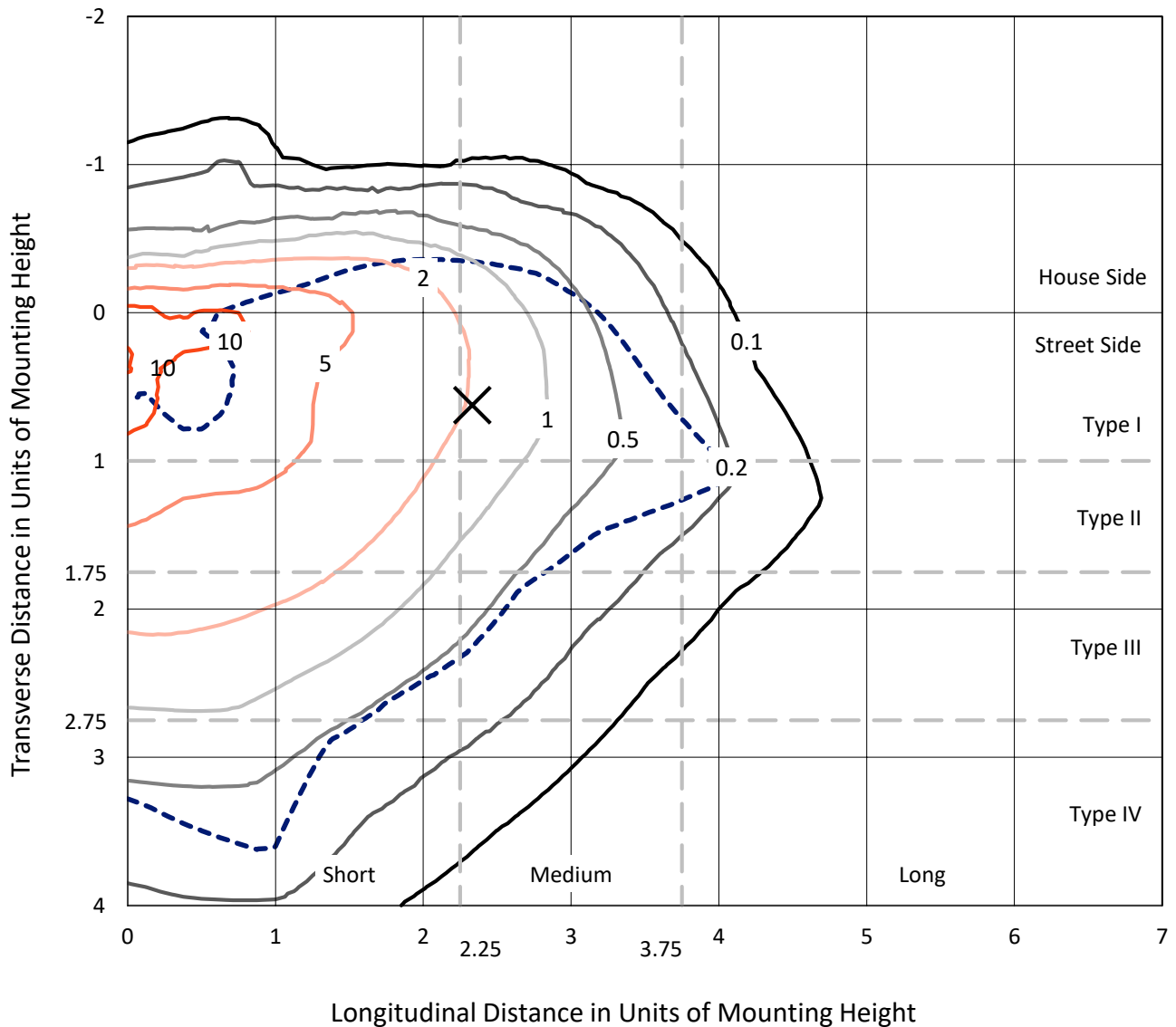
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

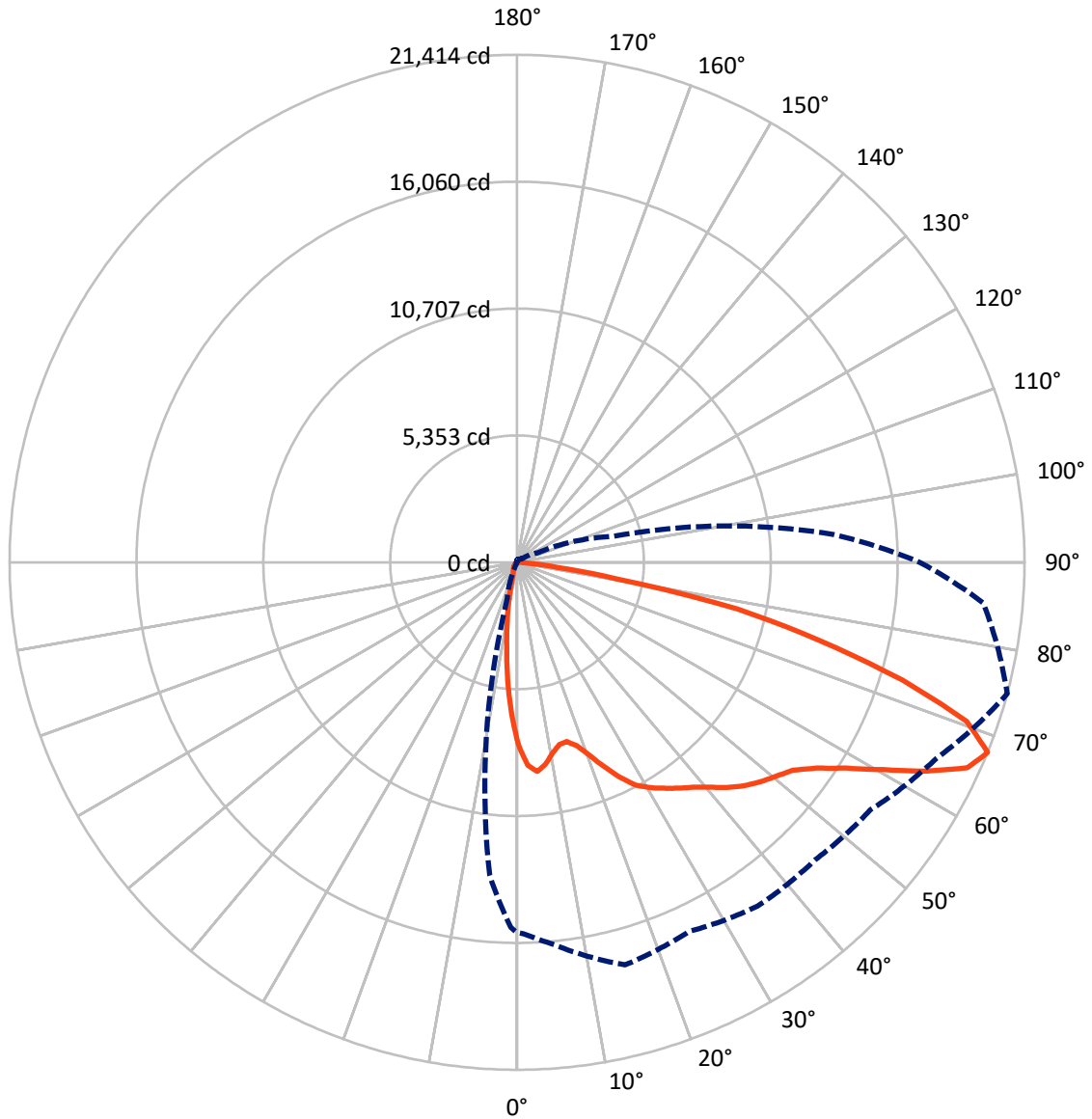
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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	3459.6	0.0	3459.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	19595.4	0.0	19595.4
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	23055.0	0.0	23055.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.7	2.5
10°-20°	1155.2	5.0
20°-30°	1634.3	7.1
30°-40°	2402.9	10.4
40°-50°	3453.8	15.0
50°-60°	4862.0	21.1
60°-70°	5678.4	24.6
70°-80°	2896.9	12.6
80°-90°	384.8	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°	23055.0	100.0
0°-180°	23055.0	100.0

**Coefficient of Utilization**

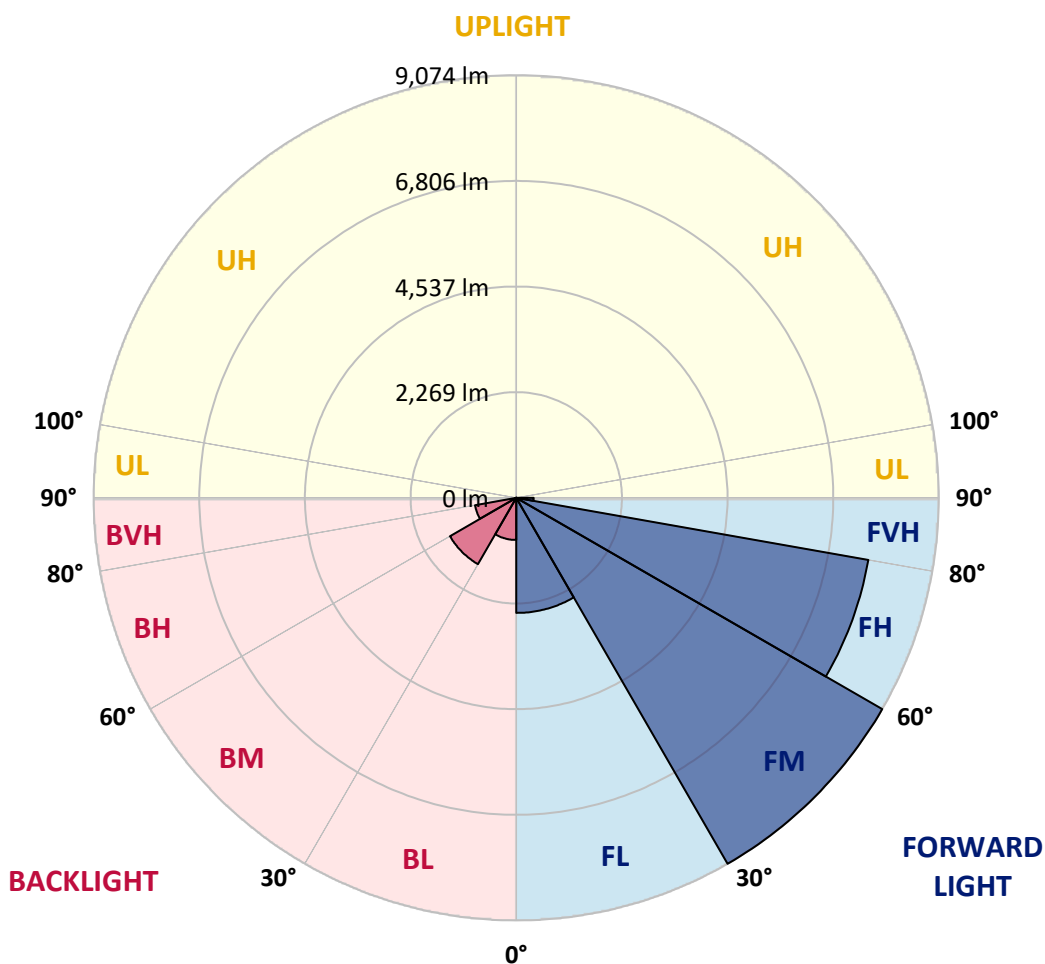


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2471.5	10.7			
FM (30°-60°)	9074.0	39.4			
FH (60°-80°)	7676.7	33.3			G4/12000
FVH (80°-90°)	373.2	1.6			G3/500
BL (0°-30°)	904.7	3.9	B2/1000		
BM (30°-60°)	1644.6	7.1	B2/2500		
BH (60°-80°)	898.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	11.7	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°	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6
2.5°	8384.4	8397.5	8465.2	8622.5	8793.9	8807.0	8922.8	8803.8	8763.4	8571.1	8372.4
5°	8447.7	8498.0	8730.6	9192.6	9593.4	9722.3	9814.0	9580.3	9334.5	8864.9	8363.6
7.5°	7937.7	8021.8	8387.7	9254.8	9971.3	10288.0	10348.1	9982.2	9380.4	8607.2	7853.6
10°	7284.6	7380.7	7821.9	8887.9	9871.9	10414.7	10497.7	10018.2	9153.3	8190.0	7302.1
12.5°	6756.0	6868.5	7319.5	8475.0	9530.0	10130.7	10294.5	9897.0	8956.7	7894.0	6925.3
15°	6512.4	6641.3	7115.3	8208.5	9151.1	9624.0	9759.4	9587.9	8847.5	7847.0	6837.9
17.5°	6652.2	6792.0	7281.3	8231.5	8795.0	8997.1	9106.3	9176.2	8847.5	8129.9	7093.5
20°	7225.6	7376.3	7894.0	8464.1	8500.2	8424.8	8541.7	8787.4	8950.1	8667.2	7707.3
22.5°	8018.5	8195.4	8779.7	8862.7	8356.0	8070.9	8086.2	8471.8	9136.9	9348.7	8559.1
25°	8985.1	9201.3	9795.4	9456.9	8416.1	7860.2	7854.7	8211.8	9319.3	10031.3	9508.2
27.5°	9945.1	10183.1	10705.2	10182.1	8664.0	7821.9	7811.0	8133.2	9497.3	10638.6	10544.6
30°	10750.0	10981.5	11431.5	10707.4	8931.5	7911.5	7859.1	8217.3	9603.2	11032.8	11300.4
32.5°	11405.3	11590.9	11954.6	11068.9	9217.7	8085.1	7971.6	8442.3	9783.4	11365.9	11995.0
35°	12126.1	12321.6	12466.8	11412.9	9538.8	8335.2	8172.5	8799.4	10060.8	11704.5	12756.2
37.5°	12948.4	13142.9	13125.4	11727.4	9946.1	8749.2	8645.4	9365.1	10492.2	12039.8	13605.9
40°	13753.4	13952.1	13810.2	12071.5	10424.5	9431.7	9355.3	10214.8	11070.0	12469.0	14602.0
42.5°	14506.9	14722.1	14418.5	12396.9	10994.6	10292.4	10423.4	11309.1	11793.0	12997.6	15460.4
45°	15114.2	15333.7	14928.5	12713.6	11595.3	11336.4	11730.7	12521.4	12662.3	13444.3	16040.3
47.5°	15555.4	15762.9	15282.4	13030.4	12364.2	12613.2	13300.1	13792.7	13447.6	13832.0	16452.0
50°	15837.2	15998.8	15386.1	13426.8	13373.3	14102.8	14935.1	15175.3	14186.9	14181.5	16952.2
52.5°	16016.3	16089.5	15462.6	13840.7	14426.1	15724.7	16536.1	16611.5	14948.2	14565.9	17626.1
55°	16633.3	16692.3	16004.3	14342.0	15296.6	17145.6	17984.3	17914.4	15809.9	15318.4	18421.2
57.5°	17686.2	17748.4	17123.7	15062.8	16001.0	18023.6	19033.9	19159.5	16820.1	16375.6	19273.1
60°	18214.8	18330.5	18107.7	15975.9	16683.6	18585.0	19749.2	20150.0	18082.6	17769.2	20098.7
62.5°	17735.3	17903.5	18226.8	16988.3	17361.8	18894.1	19972.0	20505.0	19375.7	19393.2	20607.7
65°	16778.6	16912.9	17461.2	17543.1	17755.0	18855.9	19421.6	20009.2	20167.5	20885.1	20580.3
67.5°	15623.1	15673.3	16138.6	17586.8	17184.9	17706.9	17768.1	18202.8	19541.7	21413.7	19753.6
70°	13959.8	13987.1	14393.4	16124.4	14768.0	14882.6	14792.0	14880.5	16800.4	20126.0	17666.5
72.5°	11234.9	11303.7	11881.4	13390.8	10758.7	10427.8	11139.9	11100.5	12938.6	17003.6	13121.0
75°	8271.9	8390.9	9263.6	10786.0	7551.1	6830.3	7350.1	7488.8	9198.0	13152.7	8205.3
77.5°	5791.6	5880.1	6725.4	7929.0	5465.1	4884.1	4696.2	4861.1	6071.2	9514.8	4133.8
80°	3336.5	3369.3	3908.8	4578.3	3682.7	4213.5	3817.0	3930.6	3637.9	4233.1	1778.0
82.5°	2183.2	2188.7	2399.4	2724.9	2293.5	2664.8	1972.4	2521.8	2237.8	1700.5	578.8
85°	1179.5	1186.1	1391.4	1934.2	1298.6	733.9	431.4	885.7	1383.7	389.9	158.4
87.5°	130.0	119.0	419.4	703.3	360.4	66.6	22.9	99.4	221.7	25.1	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°	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6
2.5°	8270.8	8180.2	7954.1	7714.9	7522.7	7342.5	7161.2	6939.5	6768.0	6733.1	6676.3
5°	8093.9	7806.6	7332.6	6856.5	6473.1	5989.3	5682.4	5443.2	5209.5	5195.3	5148.4
7.5°	7475.7	7097.8	6430.5	5772.0	5232.5	4771.6	4306.3	3995.1	3750.4	3664.1	3612.8
10°	6881.6	6456.8	5623.4	4872.1	4390.4	3983.0	3655.4	3329.9	3035.1	2831.9	2740.2
12.5°	6466.6	5997.0	5078.5	4430.8	4085.7	3699.1	3299.4	2893.1	2553.4	2308.8	2159.2
15°	6306.0	5804.7	4896.1	4256.1	3830.1	3340.9	2829.7	2365.6	1988.8	1767.1	1632.8
17.5°	6497.2	5914.0	4881.9	4043.1	3447.9	2839.6	2274.9	1726.7	1371.7	1203.5	1117.3
20°	6982.1	6261.3	4876.4	3782.1	2993.6	2245.4	1541.0	1135.8	920.7	826.8	786.3
22.5°	7667.9	6704.7	4920.1	3524.3	2520.7	1604.4	1063.7	834.4	724.1	673.9	650.9
25°	8550.4	7327.2	5043.5	3290.6	2076.2	1197.0	828.9	699.0	621.4	582.1	565.7
27.5°	9490.7	8043.6	5235.7	3087.5	1714.7	954.5	709.9	598.5	542.8	515.5	500.2
30°	10266.1	8873.7	5430.1	2861.4	1452.6	832.2	649.8	546.1	481.6	464.2	450.0
32.5°	10944.4	9501.6	5567.7	2657.2	1281.1	739.4	587.6	488.2	444.5	410.6	395.4
35°	11646.6	10024.8	5563.4	2514.1	1163.1	669.5	535.2	436.9	384.4	345.1	333.1
37.5°	12406.7	10615.6	5468.4	2391.8	1111.8	613.8	505.7	409.6	357.1	317.8	302.5
40°	13296.8	11236.0	5371.2	2277.1	1097.6	569.0	484.9	387.7	332.0	293.8	278.5
42.5°	14164.0	11795.1	5286.0	2191.9	1036.4	567.9	466.3	371.3	312.4	275.2	257.7
45°	14857.5	12316.1	5269.6	2140.6	972.0	587.6	456.5	360.4	297.1	259.9	243.5
47.5°	15434.2	12881.8	5374.4	2104.6	910.8	536.2	480.5	352.8	282.9	246.8	228.3
50°	16120.0	13576.4	5621.3	2045.6	846.4	482.7	550.4	354.9	270.9	233.7	214.1
52.5°	17076.8	14537.5	5983.9	1946.2	757.9	433.6	541.7	357.1	257.7	219.5	199.9
55°	18149.2	15737.8	6373.7	1781.3	634.5	369.1	464.2	341.8	232.6	204.2	185.7
57.5°	19276.3	16826.7	6605.3	1584.7	504.6	318.9	371.3	311.3	205.3	183.5	171.5
60°	19453.3	17240.6	6499.3	1343.3	400.8	277.4	275.2	316.7	183.5	161.6	152.9
62.5°	19013.1	16720.7	5987.1	1128.2	335.3	243.5	226.1	276.3	166.0	144.2	135.4
65°	18166.7	15315.1	5157.1	1016.8	311.3	208.6	187.8	194.4	145.3	125.6	118.0
67.5°	16989.4	13438.8	4234.2	953.4	308.0	179.1	160.5	147.4	125.6	109.2	102.7
70°	14582.3	11195.6	3378.0	918.5	299.2	150.7	135.4	120.1	104.8	92.8	87.4
72.5°	10732.5	7933.3	2627.7	880.3	301.4	120.1	118.0	99.4	84.1	72.1	69.9
75°	6201.2	4532.4	1723.4	713.2	287.2	92.8	98.3	69.9	59.0	50.2	50.2
77.5°	3304.8	2764.2	656.4	297.1	104.8	59.0	55.7	41.5	37.1	30.6	29.5
80°	1440.5	1216.6	197.7	83.0	57.9	31.7	20.8	18.6	16.4	13.1	12.0
82.5°	510.0	440.1	64.4	40.4	25.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	115.8	83.0	0.0	9.8	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°	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6
2.5°	6560.5	6536.5	6394.5	6400.0	6425.1	6461.1	6375.9	6415.2	6521.2	6622.8	6661.0
5°	5073.0	5078.5	4992.2	5045.7	5093.8	5126.5	4988.9	4991.1	5075.2	5189.9	5249.9
7.5°	3574.6	3565.8	3570.2	3698.0	3788.6	3723.1	3774.4	3596.4	3607.3	3689.3	3628.1
10°	2657.2	2537.0	2469.3	2565.4	2664.8	2628.8	2540.3	2482.4	2522.9	2613.5	2606.9
12.5°	2088.2	1915.6	1814.0	1745.2	1827.2	1759.4	1757.3	1707.0	1652.4	1662.2	1807.5
15°	1570.5	1444.9	1324.8	1214.5	1212.3	1189.3	1072.5	941.4	930.5	937.1	1012.4
17.5°	1080.1	1037.5	988.4	893.4	868.3	772.1	658.6	606.1	579.9	591.9	617.1
20°	759.0	742.7	748.1	696.8	660.7	569.0	502.4	481.6	477.3	489.3	501.3
22.5°	629.1	599.6	596.3	573.4	537.3	470.7	434.7	422.7	417.2	428.1	436.9
25°	550.4	521.0	508.9	494.7	456.5	410.6	388.8	377.9	372.4	379.0	384.4
27.5°	484.9	457.6	446.7	436.9	399.7	367.0	349.5	339.7	335.3	337.5	342.9
30°	435.8	411.7	397.5	385.5	353.9	330.9	315.6	305.8	301.4	301.4	306.9
32.5°	384.4	371.3	358.2	342.9	313.4	298.2	282.9	271.9	267.6	268.7	273.0
35°	320.0	315.6	318.9	304.7	279.6	266.5	251.2	239.2	235.9	237.0	241.4
37.5°	284.0	264.3	276.3	268.7	254.5	237.0	217.3	206.4	201.0	204.2	206.4
40°	261.0	237.0	228.3	235.9	233.7	205.3	187.8	176.9	172.6	173.7	175.8
42.5°	241.4	213.0	193.3	192.2	205.3	179.1	160.5	150.7	145.3	145.3	147.4
45°	222.8	192.2	168.2	149.6	172.6	151.8	134.3	125.6	119.0	119.0	120.1
47.5°	208.6	174.7	146.3	122.3	130.0	124.5	110.3	101.6	95.0	95.0	96.1
50°	195.5	157.3	126.7	102.7	97.2	102.7	89.6	79.7	75.4	74.3	76.5
52.5°	181.3	139.8	108.1	87.4	76.5	77.5	69.9	63.3	57.9	57.9	60.1
55°	167.1	125.6	93.9	74.3	63.3	57.9	55.7	51.3	47.0	47.0	49.1
57.5°	152.9	110.3	79.7	61.2	50.2	45.9	45.9	42.6	39.3	39.3	41.5
60°	139.8	95.0	65.5	50.2	39.3	38.2	39.3	36.0	33.9	33.9	36.0
62.5°	124.5	80.8	53.5	41.5	31.7	30.6	33.9	31.7	29.5	29.5	31.7
65°	105.9	68.8	42.6	31.7	24.0	24.0	28.4	26.2	24.0	24.0	26.2
67.5°	89.6	57.9	32.8	22.9	17.5	18.6	24.0	21.8	20.8	20.8	22.9
70°	74.3	44.8	22.9	14.2	9.8	14.2	18.6	18.6	18.6	18.6	20.8
72.5°	55.7	30.6	13.1	5.5	4.4	9.8	15.3	17.5	16.4	16.4	19.7
75°	36.0	17.5	4.4	0.0	0.0	5.5	12.0	14.2	14.2	13.1	16.4
77.5°	20.8	5.5	0.0	0.0	0.0	0.0	7.6	6.6	5.5	4.4	7.6
80°	5.5	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: P324290  
 CATALOG NUMBER: GLEON-SA6C-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6	7734.6
2.5°	6815.0	6943.8	7125.1	7317.4	7613.3	7848.1	8078.6	8276.3	8352.7	8384.4
5°	5394.1	5583.0	5848.4	6189.2	6723.2	7203.8	7690.9	8181.2	8394.2	8447.7
7.5°	3870.6	4111.9	4449.4	4876.4	5502.2	6124.7	6805.1	7524.9	7854.7	7937.7
10°	2864.7	3159.6	3546.2	3996.2	4593.6	5233.6	5975.1	6797.5	7174.3	7284.6
12.5°	2032.5	2431.1	2948.8	3496.0	4013.6	4584.8	5335.1	6241.6	6637.0	6756.0
15°	1193.7	1579.2	2191.9	2924.8	3587.7	4166.5	4928.8	5956.5	6392.3	6512.4
17.5°	684.8	877.0	1340.1	2157.0	3056.9	3858.5	4801.1	6027.5	6540.8	6652.2
20°	523.1	584.3	772.1	1389.2	2436.6	3556.0	4801.1	6429.4	7061.8	7225.6
22.5°	457.6	502.4	578.8	828.9	1793.3	3231.7	4856.8	7010.5	7837.2	8018.5
25°	406.3	446.7	512.2	623.6	1223.2	2846.1	4988.9	7723.6	8750.3	8985.1
27.5°	363.7	401.9	460.9	546.1	836.6	2380.9	5166.9	8560.2	9757.2	9945.1
30°	325.5	361.5	415.0	475.1	645.5	1853.4	5318.7	9348.7	10547.9	10750.0
32.5°	289.4	322.2	370.2	415.0	528.6	1370.6	5335.1	9973.5	11204.3	11405.3
35°	255.6	285.0	328.7	363.7	437.9	1082.3	5080.7	10515.2	11860.7	12126.1
37.5°	222.8	251.2	289.4	315.6	385.5	882.5	4691.8	11119.1	12702.7	12948.4
40°	192.2	217.3	256.7	274.1	364.8	678.2	4269.2	11752.6	13528.4	13753.4
42.5°	163.8	187.8	226.1	259.9	320.0	506.8	3812.7	12346.7	14271.0	14506.9
45°	136.5	161.6	199.9	275.2	265.4	379.0	3324.5	12740.9	14857.5	15114.2
47.5°	110.3	138.7	191.1	262.1	211.9	278.5	2937.9	13114.5	15302.0	15555.4
50°	88.5	116.9	215.2	233.7	173.7	213.0	2776.2	13448.7	15593.6	15837.2
52.5°	72.1	98.3	203.1	179.1	145.3	175.8	2863.6	13990.4	15863.4	16016.3
55°	60.1	77.5	122.3	124.5	123.4	149.6	2971.7	14768.0	16561.3	16633.3
57.5°	52.4	62.3	85.2	96.1	103.8	133.2	2973.9	15884.1	17641.4	17686.2
60°	44.8	54.6	71.0	77.5	89.6	119.0	2865.8	16274.0	18066.2	18214.8
62.5°	39.3	48.1	59.0	64.4	75.4	107.0	2612.4	15709.4	17483.0	17735.3
65°	34.9	43.7	49.1	54.6	66.6	96.1	2195.2	14580.1	16515.4	16778.6
67.5°	30.6	38.2	43.7	49.1	60.1	85.2	1616.4	13268.4	15404.7	15623.1
70°	27.3	33.9	39.3	43.7	52.4	72.1	980.7	11258.9	13869.1	13959.8
72.5°	26.2	30.6	36.0	39.3	45.9	63.3	496.9	8274.1	11087.4	11234.9
75°	22.9	27.3	32.8	34.9	40.4	54.6	202.0	5434.5	8034.9	8271.9
77.5°	18.6	25.1	29.5	31.7	34.9	44.8	102.7	3473.0	5638.7	5791.6
80°	6.6	18.6	25.1	26.2	29.5	32.8	67.7	1901.4	3271.0	3336.5
82.5°	0.0	12.0	19.7	18.6	20.8	25.1	43.7	904.3	2159.2	2183.2
85°	0.0	5.5	15.3	12.0	8.7	17.5	15.3	197.7	1132.6	1179.5
87.5°	0.0	0.0	1.1	5.5	4.4	6.6	2.2	1.1	102.7	130.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)