

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: P324606

Luminaire Tested: **GLEON-SA2C-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7886 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 113  
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

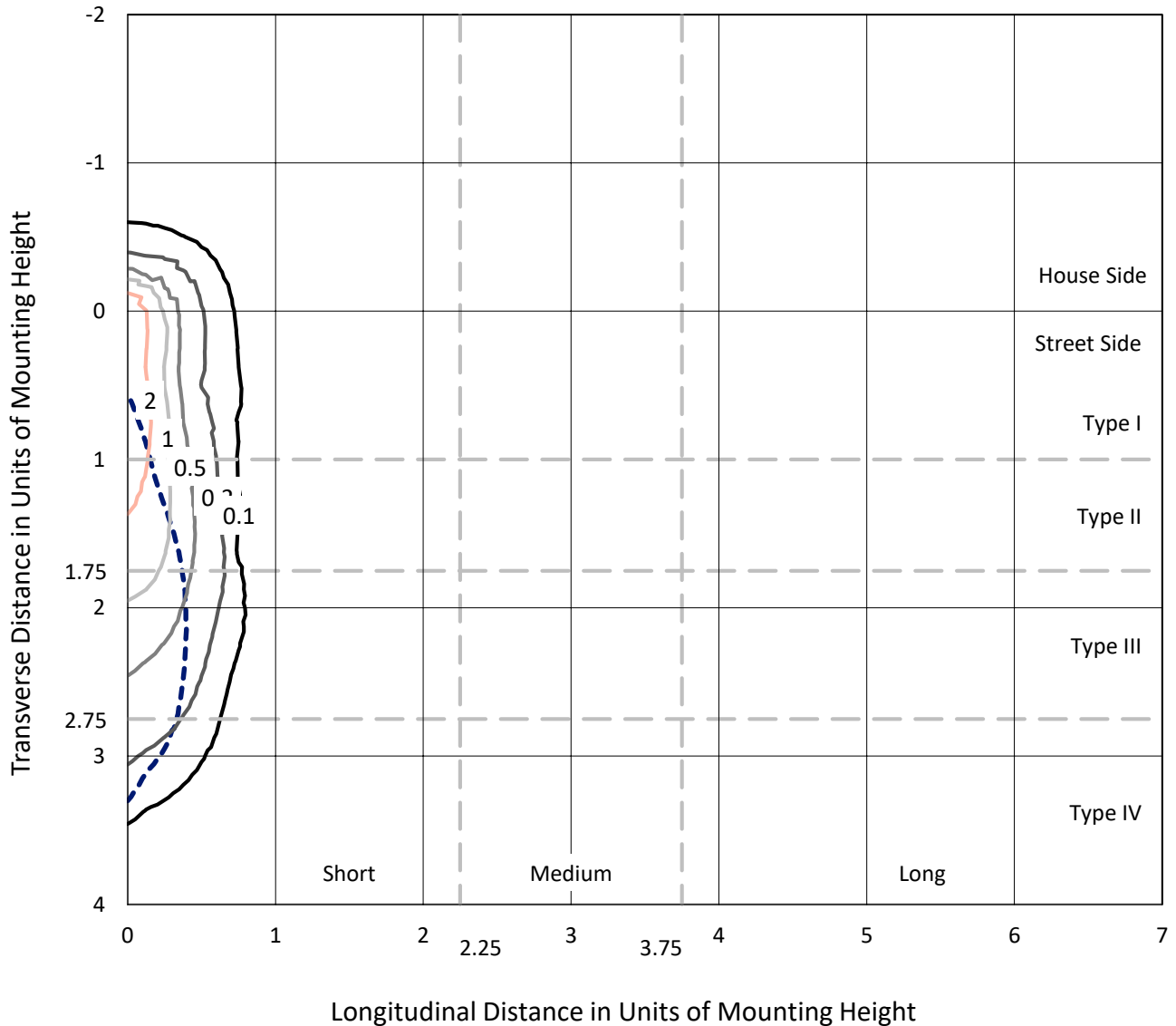




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### Iso-Footcandle Lines of Horizontal Illumination

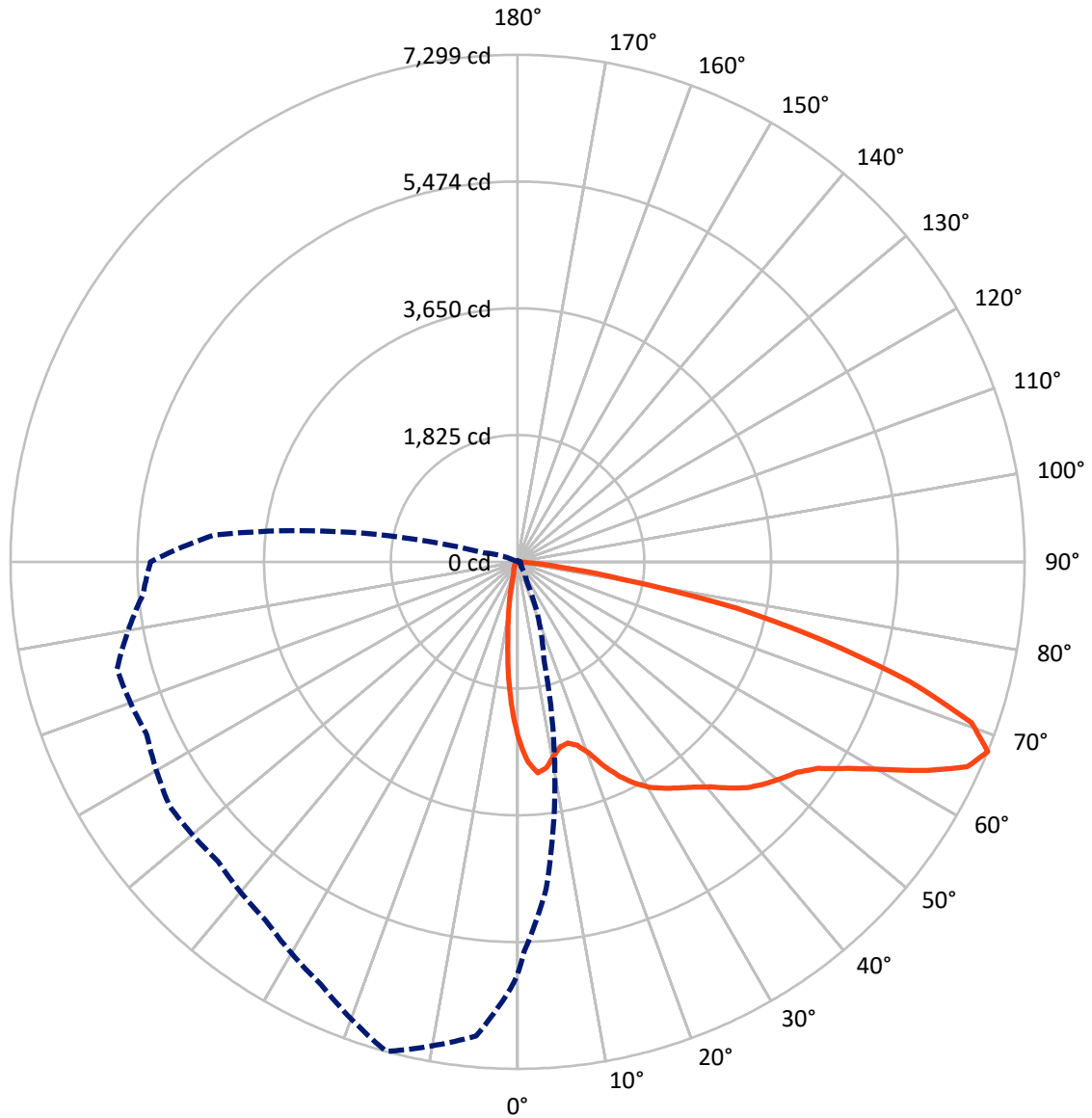
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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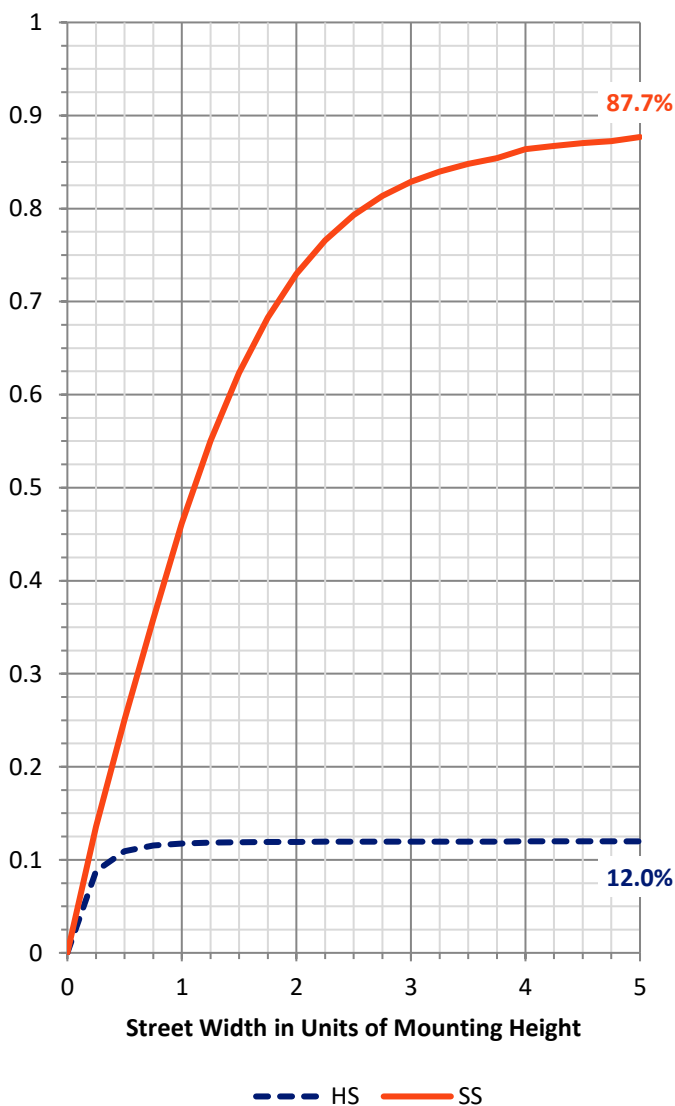
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	954.5	0.0	954.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	6931.5	0.0	6931.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	7886.0	0.0	7886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.2	2.5
10°-20°	392.4	5.0
20°-30°	557.3	7.1
30°-40°	823.1	10.4
40°-50°	1187.1	15.1
50°-60°	1666.4	21.1
60°-70°	1942.6	24.6
70°-80°	993.1	12.6
80°-90°	126.8	1.6
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°	7886.0	100.0
0°-180°	7886.0	100.0

**Coefficient of Utilization**



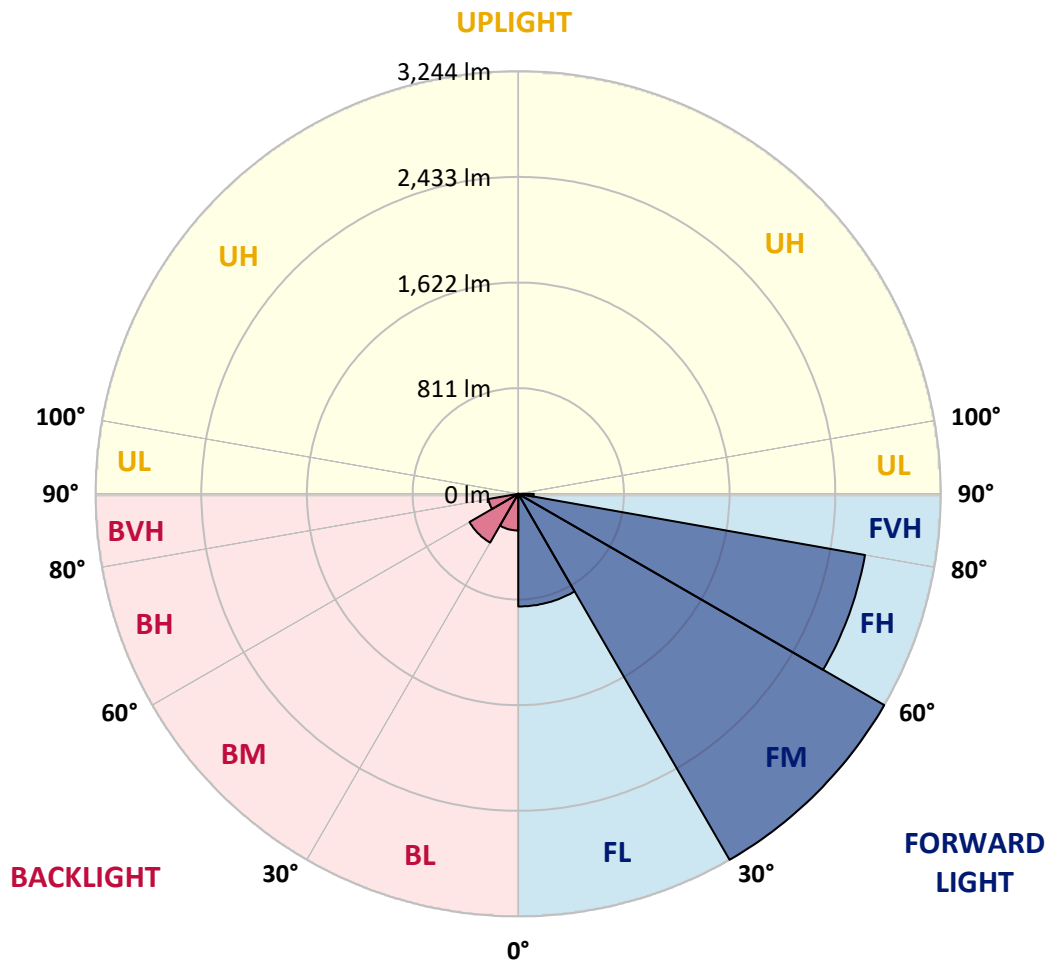
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.9	11.0			
FM (30°-60°)	3244.4	41.1			
FH (60°-80°)	2703.0	34.3			G2/5000
FVH (80°-90°)	119.1	1.5			G2/225
BL (0°-30°)	281.9	3.6	B1/500		
BM (30°-60°)	432.2	5.5	B1/1000		
BH (60°-80°)	232.6	2.9	B1/500		G1/500
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8
2.5°	2812.8	2791.1	2767.2	2689.1	2616.7	2533.7	2466.1	2419.0	2360.0	2283.4	2264.0
5°	2792.6	2769.5	2694.4	2520.7	2368.6	2220.7	2077.9	1994.3	1890.4	1785.0	1758.9
7.5°	2589.8	2565.5	2457.1	2219.2	2014.4	1800.7	1615.4	1500.7	1383.4	1287.0	1235.9
10°	2378.7	2352.2	2230.4	1941.6	1689.4	1496.3	1360.3	1250.8	1139.8	1036.7	954.5
12.5°	2233.4	2198.6	2066.4	1739.1	1519.4	1388.3	1261.3	1130.1	979.9	869.4	778.9
15°	2172.5	2132.9	1993.1	1661.0	1459.3	1305.3	1139.8	978.8	802.9	676.2	593.3
17.5°	2219.5	2168.0	2018.2	1655.8	1383.8	1174.2	965.0	776.0	585.1	456.9	397.9
20°	2379.4	2311.8	2121.7	1654.3	1292.3	1018.4	753.2	539.5	385.6	310.1	279.1
22.5°	2631.2	2542.0	2270.3	1666.2	1197.8	854.8	544.0	366.5	289.5	250.3	232.0
25°	2935.3	2831.9	2484.4	1708.5	1114.8	695.6	395.3	289.5	244.3	215.6	200.2
27.5°	3224.5	3140.5	2754.9	1769.4	1050.6	567.1	320.9	245.5	208.8	189.8	177.5
30°	3513.3	3407.6	3032.5	1841.8	973.2	480.1	282.1	223.8	187.2	167.0	159.2
32.5°	3723.3	3635.5	3249.9	1894.1	890.7	423.3	252.2	204.7	174.8	154.3	142.7
35°	3970.2	3870.8	3436.3	1905.7	837.6	387.4	226.8	184.2	151.7	133.4	121.0
37.5°	4237.0	4113.3	3651.5	1880.3	796.1	369.9	207.7	174.8	141.6	122.9	109.8
40°	4532.1	4392.4	3858.1	1843.7	755.4	363.9	193.1	167.7	133.7	114.7	101.2
42.5°	4842.9	4678.2	4037.1	1805.2	729.6	343.3	191.7	160.6	127.8	107.2	93.8
45°	5104.1	4937.1	4220.9	1792.5	711.3	320.9	198.0	155.8	123.7	101.2	88.2
47.5°	5312.2	5154.1	4409.2	1820.9	700.9	300.4	180.4	162.1	121.4	96.0	83.3
50°	5560.6	5381.7	4674.4	1905.7	685.5	279.8	163.3	185.7	121.4	92.7	79.2
52.5°	5872.2	5695.1	4970.3	2037.2	654.9	251.4	146.8	186.1	122.5	88.2	74.0
55°	6264.1	6135.6	5392.9	2181.4	606.0	209.6	127.0	159.9	118.1	79.9	69.1
57.5°	6639.9	6535.0	5778.0	2280.1	540.6	163.6	110.6	128.9	108.0	70.2	61.6
59°	6742.7	6628.0	5919.3	2284.5	491.7	142.7	102.4	106.5	105.7	65.8	57.2
60°	6742.7	6620.9	5960.0	2260.6	456.2	131.1	97.1	94.9	110.2	62.8	54.5
62.5°	6620.5	6449.4	5827.7	2098.9	372.1	111.7	84.8	78.5	99.0	56.4	48.2
65°	6366.5	6117.3	5377.2	1806.3	331.8	102.4	73.2	64.3	68.7	49.7	42.2
67.5°	5942.8	5605.1	4727.5	1459.3	315.7	99.8	63.1	54.5	51.9	42.6	37.0
70°	5196.7	4822.0	3938.8	1147.3	301.9	98.6	53.1	46.0	41.8	35.9	31.4
72.5°	3782.3	3391.5	2796.4	897.0	293.6	100.9	42.6	38.5	34.4	28.0	24.3
75°	2163.5	1907.6	1571.7	592.5	250.3	96.4	32.9	32.1	24.7	20.2	16.8
77.5°	1117.8	1083.8	941.8	227.5	119.9	42.2	21.7	18.7	14.6	12.3	10.1
80°	482.3	477.1	412.8	65.8	31.8	23.5	12.3	7.8	6.7	5.2	4.1
82.5°	166.6	166.6	146.8	22.0	14.2	11.6	1.5	0.0	0.0	0.0	0.0
85°	33.6	37.7	26.5	0.0	4.9	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8
2.5°	2240.5	2195.3	2192.3	2163.9	2128.4	2112.3	2103.0	2119.4	2139.6	2141.8	2172.1
5°	1739.1	1691.6	1711.4	1661.0	1671.1	1661.0	1644.6	1647.6	1656.5	1628.5	1663.3
7.5°	1221.3	1185.4	1208.2	1194.8	1212.7	1219.8	1209.7	1194.8	1150.7	1145.4	1175.7
10°	920.5	879.8	855.5	830.1	835.7	847.3	843.6	832.7	804.7	806.2	835.4
12.5°	739.7	694.1	645.9	583.6	568.2	576.8	568.2	561.9	535.0	537.2	563.0
15°	561.1	523.8	473.3	423.3	396.0	398.6	374.7	357.9	341.1	320.9	336.6
17.5°	378.8	356.0	341.1	326.1	293.6	286.2	255.9	223.4	210.7	201.4	208.1
20°	268.2	255.9	249.9	249.2	230.5	221.2	191.7	171.5	165.1	163.3	167.4
22.5°	224.2	215.2	206.6	201.7	192.4	181.6	159.2	149.1	144.6	142.3	145.3
25°	195.0	188.3	179.3	171.1	167.4	155.8	139.7	132.3	129.3	127.0	128.5
27.5°	173.3	167.4	156.9	151.7	148.7	138.6	124.8	118.8	116.2	115.4	115.1
30°	156.2	150.6	140.8	134.9	129.6	120.7	112.5	106.5	103.9	103.1	102.4
32.5°	139.0	134.5	128.1	122.2	116.6	108.3	101.2	96.4	92.3	91.5	91.2
35°	117.3	112.8	109.5	109.1	103.9	96.0	90.8	84.4	81.1	79.9	80.3
37.5°	104.2	98.3	90.8	93.4	91.9	86.3	79.2	72.9	69.5	68.7	68.7
40°	96.0	89.7	81.1	76.6	81.1	79.9	68.7	62.4	59.0	58.7	57.9
42.5°	88.2	81.8	72.1	64.6	66.9	70.2	59.4	53.4	50.1	49.3	48.2
45°	82.6	75.8	65.0	56.4	51.9	59.0	50.8	43.3	41.5	40.0	39.2
47.5°	77.3	71.0	58.7	48.9	41.5	42.6	40.7	35.5	33.3	31.8	31.4
50°	72.9	66.1	53.1	41.8	34.4	31.4	32.9	28.0	26.2	24.7	23.9
52.5°	67.6	61.3	47.1	36.2	28.8	24.7	25.0	22.0	20.2	19.1	18.7
55°	63.5	57.2	42.2	31.8	25.4	20.2	17.9	17.2	16.1	15.3	14.9
57.5°	57.9	51.9	37.4	26.9	21.7	16.4	13.8	13.8	13.4	12.7	12.3
59°	54.5	49.3	34.4	24.3	19.8	14.2	12.3	12.7	12.3	11.6	11.2
60°	51.9	47.1	32.1	22.4	18.7	13.1	11.2	12.0	11.6	10.8	10.5
62.5°	46.0	42.6	27.6	18.7	16.4	10.5	9.3	10.1	10.1	9.7	9.3
65°	40.3	36.6	23.5	15.7	15.3	9.0	7.5	9.0	9.3	8.6	7.8
67.5°	35.1	31.4	20.5	12.7	14.2	7.1	5.6	7.5	10.1	7.8	7.1
70°	29.9	26.2	16.1	10.1	14.9	4.9	4.5	6.7	12.0	8.6	6.7
72.5°	23.2	20.2	11.2	7.5	16.1	3.4	3.4	5.6	13.4	9.3	6.4
75°	16.1	13.1	6.7	4.5	13.1	2.2	2.2	5.2	12.7	8.6	6.0
77.5°	9.3	7.1	2.2	0.4	6.7	0.0	0.4	3.7	9.0	5.2	2.6
80°	3.4	1.5	0.0	0.0	4.1	0.0	0.0	0.0	0.7	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8
2.5°	2179.9	2230.4	2275.6	2343.9	2425.0	2518.4	2598.7	2685.0	2766.1	2799.7	2822.9
5°	1670.4	1732.7	1805.6	1906.1	2039.8	2204.6	2358.9	2533.4	2720.9	2814.7	2902.8
7.5°	1180.9	1244.5	1334.9	1441.7	1603.5	1799.6	2001.4	2242.3	2496.4	2644.7	2790.8
10°	849.2	927.3	1011.7	1157.8	1322.2	1508.2	1715.9	1984.9	2268.1	2432.5	2608.5
12.5°	578.0	666.9	794.6	958.3	1151.4	1333.7	1514.2	1770.8	2099.6	2262.5	2451.2
15°	346.7	396.0	531.3	720.7	957.5	1184.7	1382.3	1639.7	1990.1	2189.6	2385.8
17.5°	213.7	236.5	310.1	465.5	714.3	1001.6	1272.5	1595.3	2005.8	2248.7	2458.6
20°	170.4	179.3	202.9	275.0	473.3	799.9	1148.8	1586.3	2134.0	2432.9	2658.1
22.5°	147.9	156.5	172.2	199.9	297.8	598.9	1031.5	1594.5	2317.8	2708.9	2972.0
25°	130.4	137.9	152.8	175.6	218.2	421.8	906.0	1631.1	2557.3	3051.5	3331.0
27.5°	116.6	122.9	136.7	157.7	187.2	294.4	763.6	1675.6	2841.2	3402.0	3677.7
30°	103.9	109.5	121.8	141.2	162.5	226.4	607.5	1705.8	3125.5	3677.7	3925.4
32.5°	93.0	97.1	108.3	124.8	141.2	180.4	461.8	1701.0	3336.6	3907.1	4103.6
35°	81.8	85.9	95.6	109.8	122.9	149.1	363.1	1610.2	3520.4	4145.1	4307.6
37.5°	69.5	74.7	84.1	96.8	105.7	131.1	293.6	1500.7	3706.8	4417.0	4535.1
40°	59.0	64.3	72.5	86.3	91.9	124.4	225.7	1367.4	3916.4	4721.1	4784.7
42.5°	48.9	53.8	62.4	74.3	86.7	107.2	167.0	1214.9	4117.8	4981.2	5012.2
45°	39.6	44.5	53.4	65.4	92.7	88.9	129.3	1051.7	4280.3	5197.5	5207.6
47.5°	31.4	35.9	45.2	61.6	86.3	71.0	92.3	923.5	4416.7	5366.3	5339.8
50°	24.3	28.0	37.7	70.6	75.5	58.7	69.9	880.9	4538.8	5470.9	5402.2
52.5°	19.1	22.4	31.0	66.1	58.7	48.6	58.7	920.9	4706.2	5557.6	5437.3
55°	15.3	18.7	24.3	37.7	40.0	41.1	50.1	958.3	4995.0	5760.9	5644.7
57.5°	12.7	16.1	19.8	26.5	30.3	34.7	44.5	962.4	5335.3	6098.6	5988.8
59°	11.6	14.6	17.9	23.5	26.5	31.8	41.8	940.0	5455.3	6221.5	6166.6
60°	10.8	13.8	16.8	21.7	24.7	29.9	40.3	918.7	5460.5	6217.0	6242.4
62.5°	9.3	12.3	14.9	18.3	20.9	25.4	36.2	839.8	5239.3	6013.4	6196.8
65°	8.2	10.8	13.4	15.7	17.9	22.8	32.9	696.0	4861.6	5685.0	5884.9
67.5°	7.5	9.3	12.3	13.8	16.1	20.2	29.1	496.1	4389.8	5283.4	5413.0
70°	6.7	9.0	11.2	12.7	14.6	17.6	25.0	285.1	3706.8	4695.4	4787.6
72.5°	6.4	8.6	10.1	12.0	13.1	15.7	22.8	134.1	2714.2	3761.4	4002.3
75°	5.6	7.8	9.3	11.2	12.3	14.2	19.4	64.3	1805.2	2722.0	2995.9
77.5°	3.4	6.4	8.6	10.1	10.8	12.3	16.1	37.0	1152.2	1884.0	2219.2
80°	0.0	2.2	6.4	8.6	9.3	10.5	12.3	29.1	616.4	1076.3	1291.9
82.5°	0.0	0.0	4.5	6.7	6.4	7.1	9.3	18.3	278.0	703.5	792.8
85°	0.0	0.0	1.5	5.2	4.5	3.4	6.4	6.4	60.9	356.0	444.2
87.5°	0.0	0.0	0.0	0.4	2.2	1.5	2.6	0.7	0.4	26.5	107.6
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: P324606

CATALOG NUMBER: GLEON-SA2C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8
2.5°	2904.0	2931.6	2978.3	3000.4	2989.5	2943.6	2888.6	2832.6	2799.7	2812.8
5°	3082.5	3224.9	3307.1	3334.3	3288.8	3185.7	3050.8	2873.0	2809.8	2792.6
7.5°	3082.5	3350.4	3520.0	3549.9	3448.3	3246.2	2993.3	2715.7	2623.4	2589.8
10°	2974.2	3338.8	3575.3	3622.8	3480.8	3178.6	2839.7	2522.9	2413.4	2378.7
12.5°	2852.0	3244.7	3493.9	3559.3	3442.7	3111.3	2733.2	2392.5	2263.6	2233.4
15°	2776.9	3128.9	3335.1	3382.5	3333.2	3072.1	2707.8	2353.3	2201.6	2172.5
17.5°	2803.8	3039.2	3113.6	3141.2	3174.4	3058.3	2776.9	2439.2	2247.2	2219.5
20°	2905.1	2944.7	2906.2	2941.0	3030.6	3071.7	2941.7	2646.9	2416.4	2379.4
22.5°	3076.9	2895.7	2787.8	2801.6	2910.7	3116.2	3193.5	2943.6	2677.6	2631.2
25°	3277.2	2935.3	2722.0	2709.7	2821.8	3174.8	3423.6	3266.4	2986.5	2935.3
27.5°	3529.0	3024.3	2708.6	2696.2	2790.8	3229.7	3614.9	3585.4	3311.9	3224.5
30°	3723.3	3111.7	2748.5	2720.2	2821.8	3267.8	3768.5	3856.3	3571.2	3513.3
32.5°	3862.6	3214.8	2813.6	2772.5	2909.2	3333.6	3886.9	4104.3	3811.1	3723.3
35°	3968.7	3326.9	2918.5	2850.9	3029.5	3433.4	3997.9	4368.5	4066.2	3970.2
37.5°	4068.1	3484.2	3082.5	3001.8	3218.2	3594.0	4115.2	4668.1	4351.7	4237.0
40°	4206.7	3662.4	3335.5	3263.7	3535.3	3812.9	4261.6	4980.4	4676.3	4532.1
42.5°	4345.3	3853.6	3594.4	3613.8	3931.0	4078.9	4450.7	5310.7	4996.9	4842.9
45°	4472.0	4050.9	3963.1	4052.8	4298.2	4370.7	4638.6	5501.6	5252.8	5104.1
47.5°	4584.8	4297.5	4329.6	4568.3	4715.9	4634.8	4779.0	5666.3	5443.3	5312.2
50°	4715.9	4616.5	4812.7	5150.4	5196.7	4873.9	4906.8	5861.4	5666.0	5560.6
52.5°	4859.4	4952.8	5347.7	5645.4	5630.5	5133.6	5035.3	6079.9	5971.2	5872.2
55°	5022.3	5224.4	5818.8	6108.7	6096.0	5423.5	5248.3	6350.0	6353.8	6264.1
57.5°	5264.0	5458.2	6138.6	6483.4	6504.7	5758.2	5609.2	6652.6	6699.7	6639.9
59°	5437.3	5609.9	6265.2	6639.9	6726.6	6017.1	5872.9	6828.2	6797.2	6742.7
60°	5565.8	5706.3	6328.0	6721.7	6855.5	6192.7	6067.6	6931.3	6808.8	6742.7
62.5°	5883.8	5916.3	6441.2	6814.4	7003.8	6582.8	6615.3	7106.9	6728.5	6620.5
65°	6032.1	6048.9	6439.7	6648.5	6860.4	6886.5	7112.2	7112.2	6532.3	6366.5
67.5°	5970.1	5889.0	6120.3	6098.6	6310.0	6706.1	7299.0	6851.4	6157.2	5942.8
70°	5465.7	5153.8	5051.0	5060.4	5222.1	5833.0	6929.1	6084.0	5447.4	5196.7
72.5°	4547.8	3799.5	3545.8	3835.3	3877.6	4482.8	5905.1	4581.8	4017.3	3782.3
75°	3657.9	2678.3	2265.9	2571.5	2643.2	3280.6	4568.0	2853.5	2346.6	2163.5
77.5°	2627.9	1922.5	1625.9	1604.6	1697.2	2080.6	3241.3	1436.1	1197.8	1117.8
80°	1492.9	1265.4	1362.5	1285.5	1332.2	1300.9	1540.0	629.9	515.9	482.3
82.5°	901.1	747.9	810.0	674.3	853.3	743.1	593.3	201.7	175.2	166.6
85°	586.2	408.7	213.0	142.7	294.0	474.8	132.6	54.9	42.2	33.6
87.5°	202.1	104.2	10.5	4.5	31.4	88.5	4.9	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

(END OF REPORT)