

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: P383284

Luminaire Tested: **GLEON-SA6A-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383284  
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-SA6A-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA 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: 19245.8 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

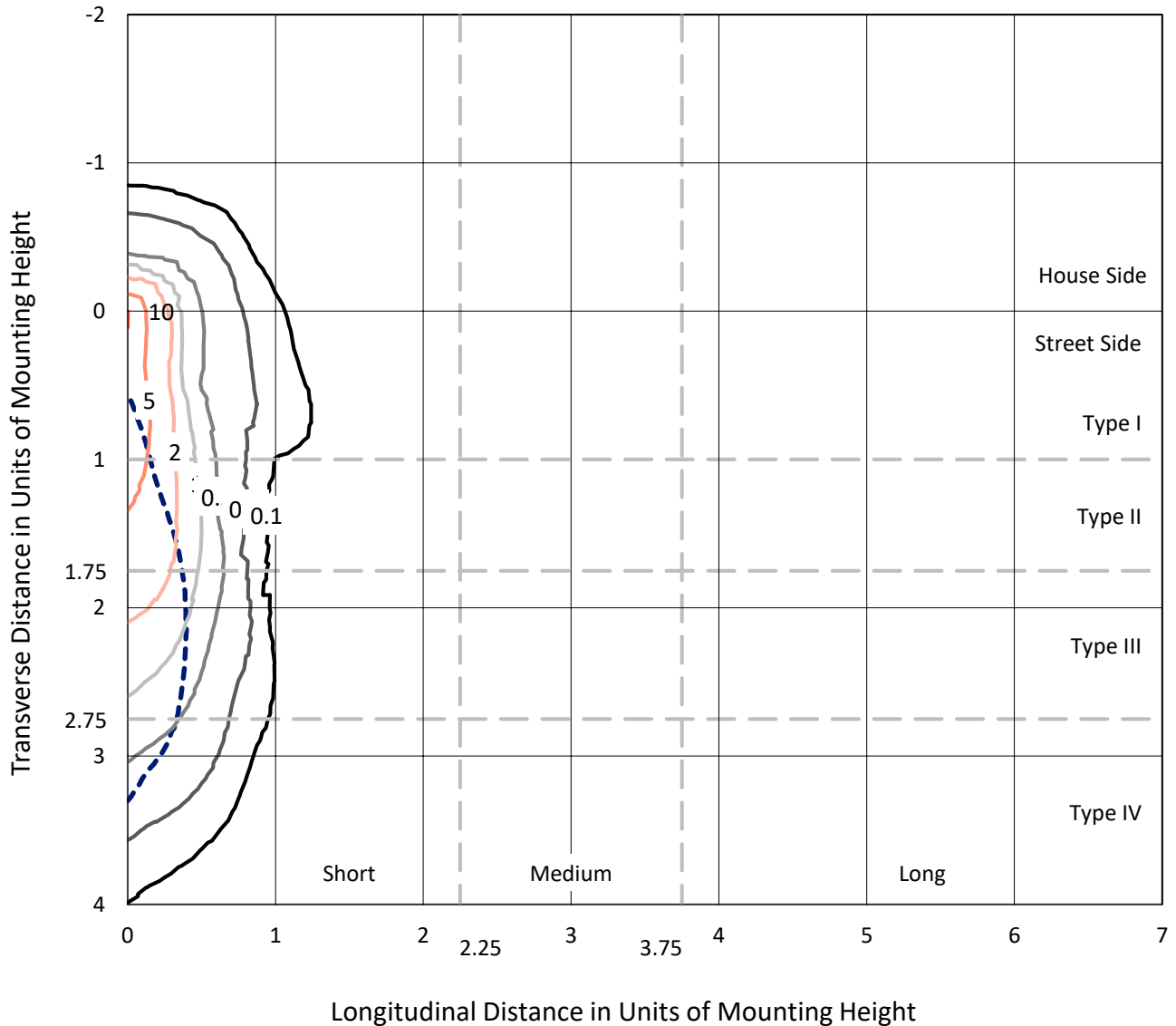
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

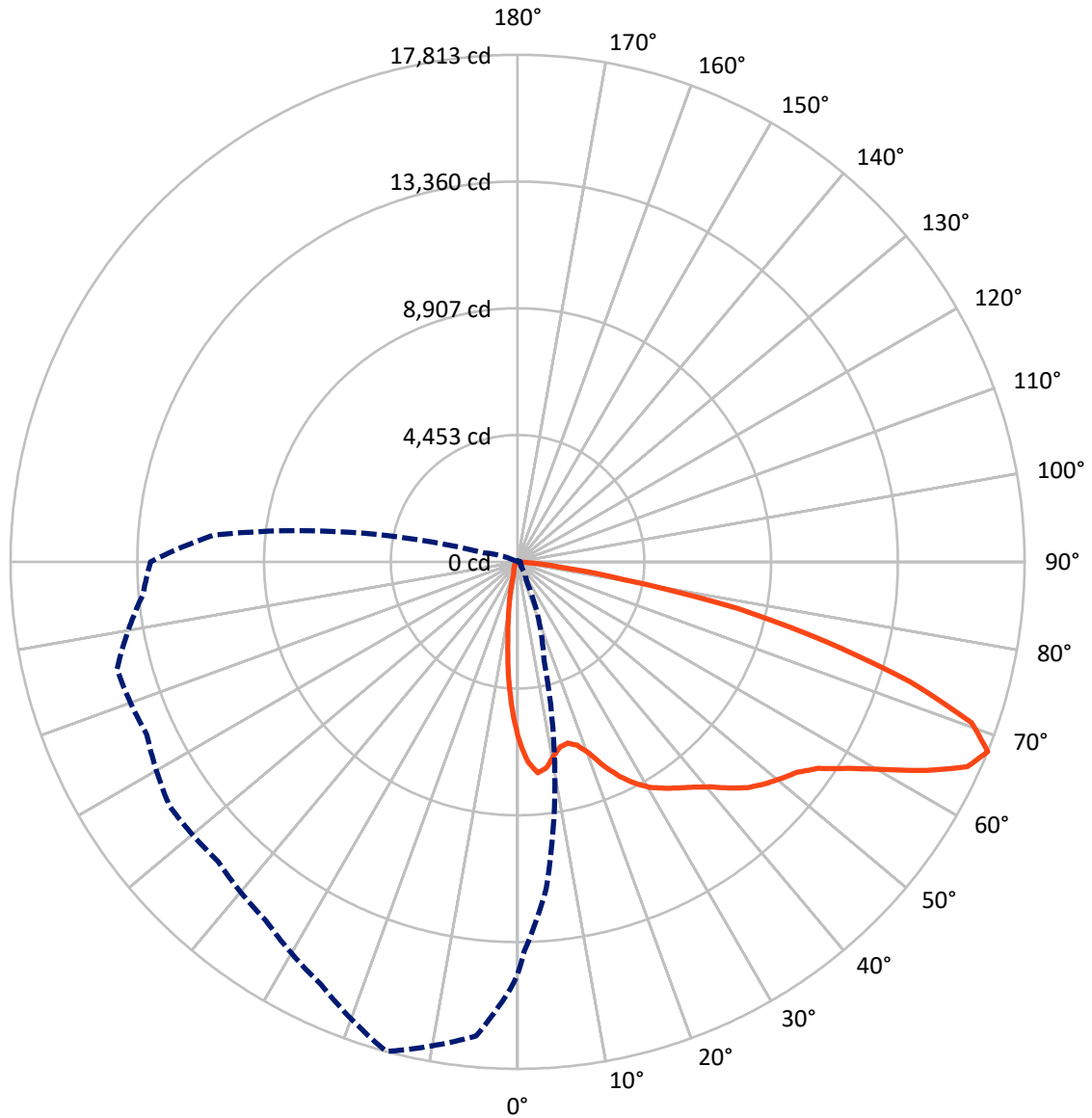
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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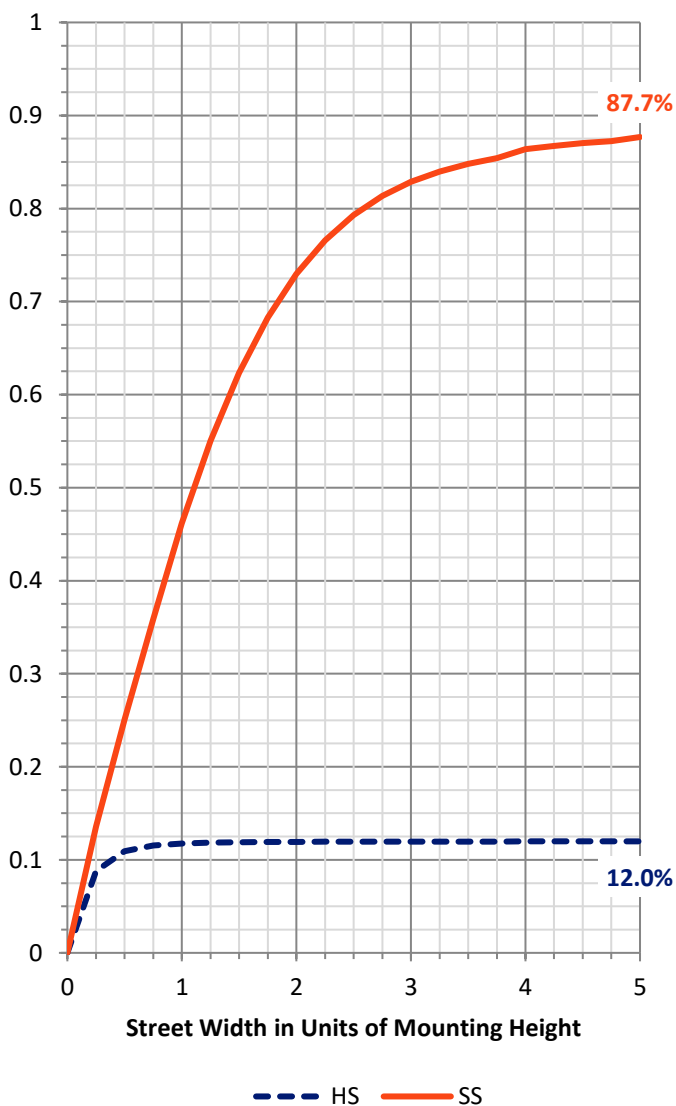
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2329.4	0.0	2329.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	16916.4	0.0	16916.4
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	19245.8	0.0	19245.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.2	2.5
10°-20°	957.7	5.0
20°-30°	1360.0	7.1
30°-40°	2008.8	10.4
40°-50°	2897.1	15.1
50°-60°	4066.9	21.1
60°-70°	4740.9	24.6
70°-80°	2423.6	12.6
80°-90°	309.5	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°	19245.8	100.0
0°-180°	19245.8	100.0

**Coefficient of Utilization**

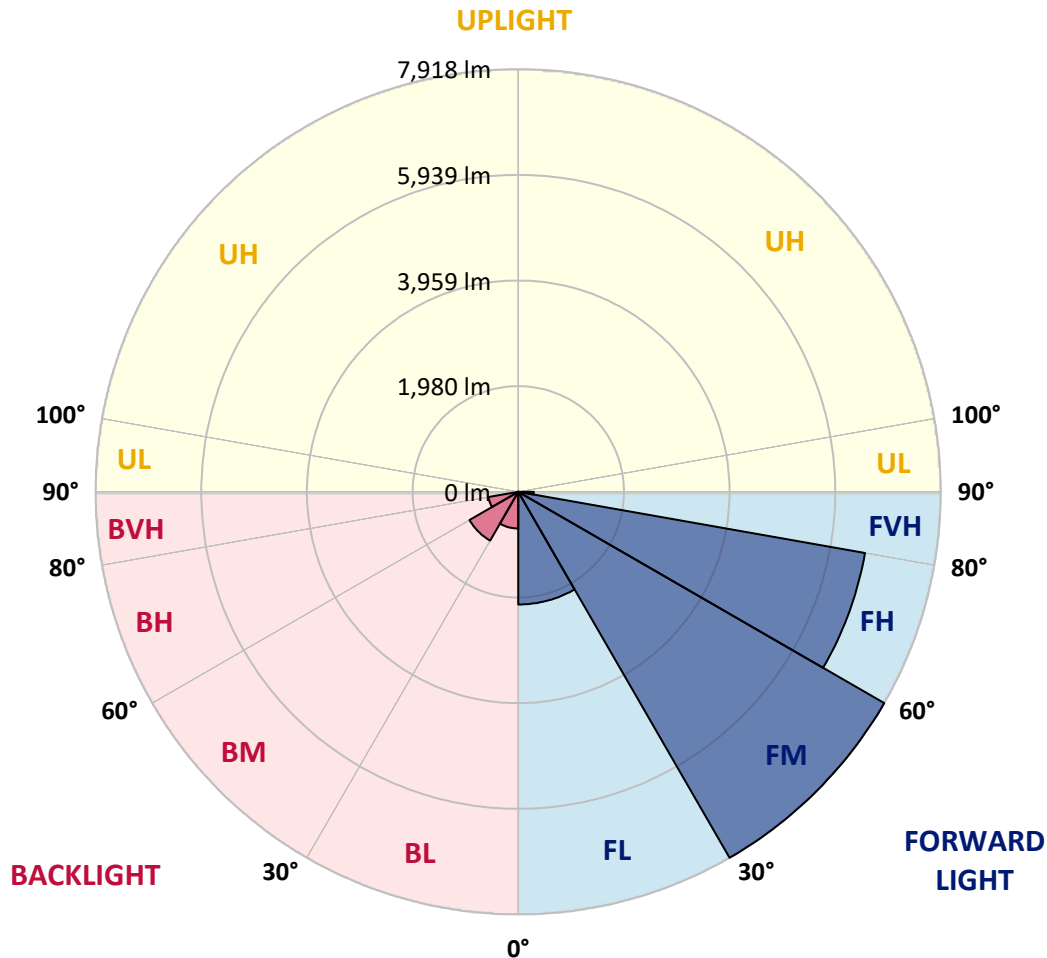


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2110.9	11.0			
FM (30°-60°)	7918.0	41.1			
FH (60°-80°)	6596.8	34.3			G3/7500
FVH (80°-90°)	290.7	1.5			G3/500
BL (0°-30°)	688.0	3.6	B2/1000		
BM (30°-60°)	1054.8	5.5	B2/2500		
BH (60°-80°)	567.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	18.8	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-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3
2.5°	6864.7	6811.8	6753.4	6562.8	6385.9	6183.6	6018.5	5903.7	5759.6	5572.7	5525.3
5°	6815.4	6758.9	6575.6	6151.7	5780.5	5419.6	5071.3	4867.0	4613.5	4356.4	4292.6
7.5°	6320.4	6261.0	5996.7	5415.8	4916.2	4394.7	3942.5	3662.6	3376.2	3141.0	3016.1
10°	5805.2	5740.5	5443.2	4738.4	4123.0	3651.6	3319.8	3052.6	2781.8	2530.2	2329.5
12.5°	5450.5	5365.7	5042.9	4244.2	3708.1	3388.1	3078.1	2758.1	2391.6	2121.7	1901.0
15°	5301.9	5205.2	4864.3	4053.7	3561.3	3185.7	2781.8	2388.9	1959.4	1650.3	1447.9
17.5°	5416.8	5290.9	4925.4	4041.0	3377.1	2865.6	2355.0	1893.7	1427.8	1115.1	971.0
20°	5807.0	5642.0	5177.9	4037.3	3153.8	2485.5	1838.1	1316.6	941.0	756.8	681.1
22.5°	6421.5	6203.6	5540.8	4066.5	2923.1	2086.1	1327.5	894.5	706.6	610.9	566.2
25°	7163.7	6911.2	6063.3	4169.5	2720.7	1697.7	964.6	706.6	596.3	526.0	488.7
27.5°	7869.4	7664.3	6723.4	4318.1	2563.9	1384.1	783.2	599.0	509.6	463.2	433.1
30°	8574.2	8316.2	7400.8	4495.0	2375.2	1171.6	688.4	546.2	456.8	407.6	388.5
32.5°	9086.6	8872.3	7931.4	4622.6	2173.7	1033.0	615.5	499.7	426.7	376.5	348.3
35°	9689.3	9446.7	8386.4	4650.9	2044.2	945.5	553.4	449.5	370.2	325.5	295.4
37.5°	10340.3	10038.5	8911.6	4588.9	1942.9	902.7	506.9	426.7	345.6	300.0	268.1
40°	11060.5	10719.6	9415.8	4499.6	1843.6	888.0	471.4	409.4	326.4	279.9	247.0
42.5°	11819.2	11417.0	9852.5	4405.7	1780.7	837.9	467.7	392.1	311.8	261.7	228.9
45°	12456.5	12048.9	10301.1	4374.6	1736.0	783.2	483.2	380.2	301.8	247.0	215.2
47.5°	12964.3	12578.7	10760.6	4443.9	1710.5	733.0	440.3	395.7	296.3	234.3	203.4
50°	13570.7	13133.9	11408.0	4650.9	1673.1	682.9	398.4	453.1	296.3	226.1	193.3
52.5°	14331.1	13898.9	12130.1	4971.9	1598.3	613.6	358.4	454.0	299.0	215.2	180.5
55°	15287.5	14973.9	13161.3	5323.8	1478.8	511.5	310.0	390.2	288.1	195.2	168.7
57.5°	16204.7	15948.6	14101.3	5564.5	1319.4	399.4	269.9	314.6	263.5	171.4	150.4
59°	16455.5	16175.6	14446.0	5575.4	1199.8	348.3	249.8	259.8	258.0	160.5	139.5
60°	16455.5	16158.3	14545.4	5517.1	1113.3	320.0	237.1	231.6	268.9	153.1	133.1
62.5°	16157.3	15739.7	14222.6	5122.3	908.1	272.6	207.0	191.4	241.6	137.7	117.7
65°	15537.4	14929.2	13123.0	4408.4	809.6	249.8	178.7	156.8	167.8	121.3	103.0
67.5°	14503.4	13679.1	11537.4	3561.3	770.5	243.4	154.1	133.1	126.7	104.0	90.3
70°	12682.6	11768.1	9612.7	2800.0	736.7	240.7	129.5	112.2	102.1	87.6	76.6
72.5°	9230.7	8277.0	6824.5	2189.1	716.6	246.2	104.0	93.9	83.8	68.4	59.2
75°	5280.0	4655.5	3835.7	1446.0	610.9	235.2	80.2	78.4	60.2	49.3	41.0
77.5°	2728.0	2645.0	2298.6	555.3	292.7	103.0	52.9	45.6	35.6	30.1	24.6
80°	1177.1	1164.3	1007.5	160.5	77.5	57.5	30.1	19.2	16.4	12.8	10.1
82.5°	406.6	406.6	358.4	53.8	34.7	28.2	3.6	0.0	0.0	0.0	0.0
85°	82.1	92.1	64.7	0.0	11.8	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°	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3
2.5°	5467.8	5357.5	5350.3	5280.9	5194.3	5155.1	5132.3	5172.4	5221.7	5227.1	5301.0
5°	4244.2	4128.4	4176.8	4053.7	4078.3	4053.7	4013.6	4020.8	4042.7	3974.4	4059.1
7.5°	2980.6	2893.0	2948.6	2915.8	2959.6	2976.9	2952.3	2915.8	2808.2	2795.5	2869.4
10°	2246.6	2147.2	2088.0	2025.9	2039.6	2067.8	2058.7	2032.4	1963.9	1967.6	2038.7
12.5°	1805.2	1694.0	1576.5	1424.1	1386.8	1407.8	1386.8	1371.3	1305.7	1311.2	1374.0
15°	1369.5	1278.3	1155.2	1033.0	966.5	972.8	914.5	873.5	832.4	783.2	821.5
17.5°	924.6	868.9	832.4	796.0	716.6	698.4	624.6	545.2	514.2	491.5	507.9
20°	654.6	624.6	610.0	608.1	562.6	539.7	467.7	418.5	403.0	398.4	408.5
22.5°	547.1	525.2	504.2	492.3	469.6	443.1	388.5	363.8	352.9	347.4	354.6
25°	475.9	459.5	437.6	417.6	408.5	380.2	341.0	322.8	315.5	310.0	313.7
27.5°	423.0	408.5	383.0	370.2	362.8	338.2	304.5	289.9	283.6	281.7	280.9
30°	381.1	367.4	343.7	329.1	316.4	294.5	274.4	259.8	253.5	251.6	249.8
32.5°	339.2	328.3	312.7	298.2	284.5	264.4	247.0	235.2	225.2	223.4	222.5
35°	286.3	275.4	267.2	266.2	253.5	234.3	221.5	206.1	197.9	195.2	196.0
37.5°	254.4	239.8	221.5	227.9	224.3	210.6	193.3	177.8	169.5	167.8	167.8
40°	234.3	218.8	197.9	186.9	197.9	195.2	167.8	152.3	144.0	143.2	141.3
42.5°	215.2	199.6	176.0	157.7	163.2	171.4	144.9	130.4	122.2	120.4	117.7
45°	201.5	185.1	158.6	137.7	126.7	144.0	124.0	105.7	101.2	97.5	95.8
47.5°	188.7	173.3	143.2	119.4	101.2	104.0	99.4	86.6	81.1	77.5	76.6
50°	177.8	161.3	129.5	102.1	83.8	76.6	80.2	68.4	63.8	60.2	58.3
52.5°	165.1	149.5	114.9	88.4	70.2	60.2	61.1	53.8	49.3	46.5	45.6
55°	155.0	139.5	103.0	77.5	62.0	49.3	43.8	41.9	39.2	37.4	36.5
57.5°	141.3	126.7	91.2	65.7	52.9	40.1	33.7	33.7	32.8	31.0	30.1
59°	133.1	120.4	83.8	59.2	48.3	34.7	30.1	31.0	30.1	28.2	27.4
60°	126.7	114.9	78.4	54.7	45.6	32.0	27.4	29.2	28.2	26.5	25.5
62.5°	112.2	104.0	67.4	45.6	40.1	25.5	22.8	24.6	24.6	23.7	22.8
65°	98.5	89.3	57.5	38.3	37.4	21.9	18.3	21.9	22.8	21.0	19.2
67.5°	85.7	76.6	50.1	31.0	34.7	17.3	13.7	18.3	24.6	19.2	17.3
70°	72.9	63.8	39.2	24.6	36.5	11.8	10.9	16.4	29.2	21.0	16.4
72.5°	56.5	49.3	27.4	18.3	39.2	8.2	8.2	13.7	32.8	22.8	15.5
75°	39.2	32.0	16.4	10.9	32.0	5.5	5.5	12.8	31.0	21.0	14.6
77.5°	22.8	17.3	5.5	0.9	16.4	0.0	0.9	9.1	21.9	12.8	6.4
80°	8.2	3.6	0.0	0.0	10.1	0.0	0.0	0.0	1.9	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°	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3
2.5°	5320.2	5443.2	5553.5	5720.4	5918.2	6146.2	6342.3	6552.9	6750.6	6832.7	6889.3
5°	4076.5	4228.8	4406.5	4651.8	4978.2	5380.3	5756.9	6182.7	6640.4	6869.2	7084.4
7.5°	2882.1	3037.1	3257.7	3518.5	3913.2	4392.0	4884.3	5472.4	6092.4	6454.3	6810.8
10°	2072.4	2263.0	2469.1	2825.6	3226.7	3680.8	4187.7	4844.2	5535.3	5936.5	6365.9
12.5°	1410.5	1627.5	1939.3	2338.7	2810.0	3255.0	3695.4	4321.7	5124.1	5521.7	5982.0
15°	846.1	966.5	1296.5	1758.8	2336.9	2891.2	3373.5	4001.7	4857.0	5343.8	5822.5
17.5°	521.6	577.2	756.8	1136.0	1743.3	2444.5	3105.5	3893.2	4895.3	5487.9	6000.3
20°	415.7	437.6	495.1	671.1	1155.2	1952.1	2803.7	3871.3	5208.0	5937.4	6487.2
22.5°	361.1	382.0	420.3	487.8	726.7	1461.6	2517.4	3891.4	5656.5	6611.2	7253.0
25°	318.2	336.5	372.9	428.5	532.5	1029.4	2211.0	3980.8	6241.0	7447.3	8129.2
27.5°	284.5	300.0	333.7	384.7	456.8	718.5	1863.7	4089.2	6934.0	8302.5	8975.4
30°	253.5	267.2	297.3	344.7	396.7	552.5	1482.6	4163.1	7627.8	8975.4	9579.8
32.5°	227.0	237.1	264.4	304.5	344.7	440.3	1126.9	4151.3	8142.9	9535.2	10014.8
35°	199.6	209.7	233.4	268.1	300.0	363.8	886.3	3929.7	8591.6	10116.0	10512.6
37.5°	169.5	182.4	205.1	236.1	258.0	320.0	716.6	3662.6	9046.5	10779.8	11067.9
40°	144.0	156.8	176.9	210.6	224.3	303.6	550.7	3337.1	9558.0	11521.9	11676.9
42.5°	119.4	131.3	152.3	181.5	211.6	261.7	407.6	2965.0	10049.4	12156.5	12232.2
45°	96.6	108.5	130.4	159.6	226.1	217.0	315.5	2566.6	10446.1	12684.4	12709.0
47.5°	76.6	87.6	110.3	150.4	210.6	173.3	225.2	2253.9	10778.8	13096.5	13031.8
50°	59.2	68.4	92.1	172.3	184.2	143.2	170.5	2149.9	11077.0	13351.9	13184.1
52.5°	46.5	54.7	75.6	161.3	143.2	118.5	143.2	2247.5	11485.4	13563.3	13269.8
55°	37.4	45.6	59.2	92.1	97.5	100.3	122.2	2338.7	12190.2	14059.4	13775.8
57.5°	31.0	39.2	48.3	64.7	73.9	84.8	108.5	2348.7	13020.9	14883.6	14615.5
59°	28.2	35.6	43.8	57.5	64.7	77.5	102.1	2294.0	13313.6	15183.6	15049.5
60°	26.5	33.7	41.0	52.9	60.2	72.9	98.5	2242.0	13326.3	15172.7	15234.6
62.5°	22.8	30.1	36.5	44.7	51.0	62.0	88.4	2049.7	12786.5	14675.7	15123.4
65°	20.0	26.5	32.8	38.3	43.8	55.6	80.2	1698.6	11864.7	13874.3	14362.0
67.5°	18.3	22.8	30.1	33.7	39.2	49.3	71.1	1210.8	10713.2	12894.1	13210.6
70°	16.4	21.9	27.4	31.0	35.6	42.9	61.1	695.7	9046.5	11459.1	11684.2
72.5°	15.5	21.0	24.6	29.2	32.0	38.3	55.6	327.3	6624.0	9179.7	9767.7
75°	13.7	19.2	22.8	27.4	30.1	34.7	47.4	156.8	4405.7	6643.1	7311.4
77.5°	8.2	15.5	21.0	24.6	26.5	30.1	39.2	90.3	2811.9	4598.0	5415.8
80°	0.0	5.5	15.5	21.0	22.8	25.5	30.1	71.1	1504.4	2626.8	3152.9
82.5°	0.0	0.0	10.9	16.4	15.5	17.3	22.8	44.7	678.4	1716.8	1934.7
85°	0.0	0.0	3.6	12.8	10.9	8.2	15.5	15.5	148.6	868.9	1084.0
87.5°	0.0	0.0	0.0	0.9	5.5	3.6	6.4	1.9	0.9	64.7	262.6
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: P383284

CATALOG NUMBER: GLEON-SA6A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3	6269.3
2.5°	7087.1	7154.6	7268.6	7322.3	7295.9	7183.8	7049.8	6913.0	6832.7	6864.7
5°	7523.0	7870.4	8070.9	8137.4	8026.2	7774.6	7445.5	7011.5	6857.4	6815.4
7.5°	7523.0	8176.7	8590.6	8663.6	8415.6	7922.3	7305.0	6627.6	6402.4	6320.4
10°	7258.5	8148.4	8725.5	8841.3	8494.9	7757.3	6930.3	6157.2	5890.0	5805.2
12.5°	6960.4	7918.6	8526.8	8686.4	8401.9	7593.1	6670.4	5838.9	5524.4	5450.5
15°	6777.1	7636.0	8139.3	8255.1	8134.7	7497.4	6608.5	5743.2	5373.0	5301.9
17.5°	6842.8	7417.2	7598.6	7666.1	7747.2	7463.7	6777.1	5952.9	5484.2	5416.8
20°	7089.8	7186.5	7092.6	7177.4	7396.2	7496.5	7179.3	6459.8	5897.3	5807.0
22.5°	7509.3	7067.1	6803.6	6837.3	7103.5	7605.0	7793.7	7183.8	6534.6	6421.5
25°	7998.0	7163.7	6643.1	6613.0	6886.6	7748.1	8355.4	7971.5	7288.6	7163.7
27.5°	8612.5	7380.7	6610.3	6580.2	6810.8	7882.2	8822.2	8750.2	8082.8	7869.4
30°	9086.6	7594.1	6707.8	6638.6	6886.6	7975.2	9197.0	9411.2	8715.6	8574.2
32.5°	9426.7	7845.7	6866.4	6766.2	7099.9	8135.7	9485.9	10016.7	9300.9	9086.6
35°	9685.7	8119.3	7122.7	6957.6	7393.5	8379.1	9756.8	10661.2	9923.6	9689.3
37.5°	9928.2	8503.1	7523.0	7326.0	7853.9	8771.2	10043.0	11392.5	10620.2	10340.3
40°	10266.4	8938.0	8140.2	7965.2	8628.0	9305.4	10400.4	12154.7	11412.5	11060.5
42.5°	10604.7	9404.8	8772.1	8819.4	9593.5	9954.6	10861.8	12960.7	12194.8	11819.2
45°	10913.8	9886.2	9672.0	9890.8	10489.8	10666.7	11320.4	13426.6	12819.4	12456.5
47.5°	11189.1	10488.0	10566.5	11149.0	11509.2	11311.3	11663.3	13828.7	13284.3	12964.3
50°	11509.2	11266.6	11745.3	12569.6	12682.6	11894.8	11975.0	14304.7	13827.8	13570.7
52.5°	11859.3	12087.2	13051.0	13777.6	13741.2	12528.5	12288.7	14838.0	14572.7	14331.1
55°	12256.8	12750.1	14200.7	14908.2	14877.2	13236.1	12808.4	15497.2	15506.4	15287.5
57.5°	12846.7	13320.9	14981.1	15822.7	15874.7	14053.0	13689.2	16235.8	16350.6	16204.7
59°	13269.8	13691.0	15290.2	16204.7	16416.3	14684.8	14332.9	16664.3	16588.6	16455.5
60°	13583.5	13926.3	15443.4	16404.5	16730.9	15113.3	14807.9	16915.9	16616.9	16455.5
62.5°	14359.3	14438.7	15719.7	16630.5	17092.8	16065.3	16144.6	17344.5	16420.9	16157.3
65°	14721.3	14762.3	15716.0	16225.7	16742.7	16806.5	17357.2	17357.2	15942.1	15537.4
67.5°	14570.0	14372.1	14936.5	14883.6	15399.7	16366.1	17813.1	16720.8	15026.8	14503.4
70°	13339.1	12577.8	12327.0	12349.8	12744.6	14235.4	16910.5	14848.0	13294.4	12682.6
72.5°	11098.9	9272.6	8653.5	9360.2	9463.2	10940.2	14411.3	11181.8	9804.2	9230.7
75°	8927.0	6536.4	5529.9	6275.6	6450.7	8006.2	11148.1	6964.1	5726.8	5280.0
77.5°	6413.3	4691.9	3968.0	3916.0	4142.1	5077.6	7910.4	3504.9	2923.1	2728.0
80°	3643.4	3088.2	3325.2	3137.4	3251.4	3174.7	3758.3	1537.2	1259.2	1177.1
82.5°	2199.2	1825.4	1976.7	1645.8	2082.5	1813.5	1447.9	492.3	427.6	406.6
85°	1430.6	997.5	519.7	348.3	717.6	1158.8	323.7	134.0	103.0	82.1
87.5°	493.3	254.4	25.5	10.9	76.6	216.1	11.8	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)