

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: P383116

Luminaire Tested: **GLEON-SA4C-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383116  
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-SA4C-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 19704.1 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 225  
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

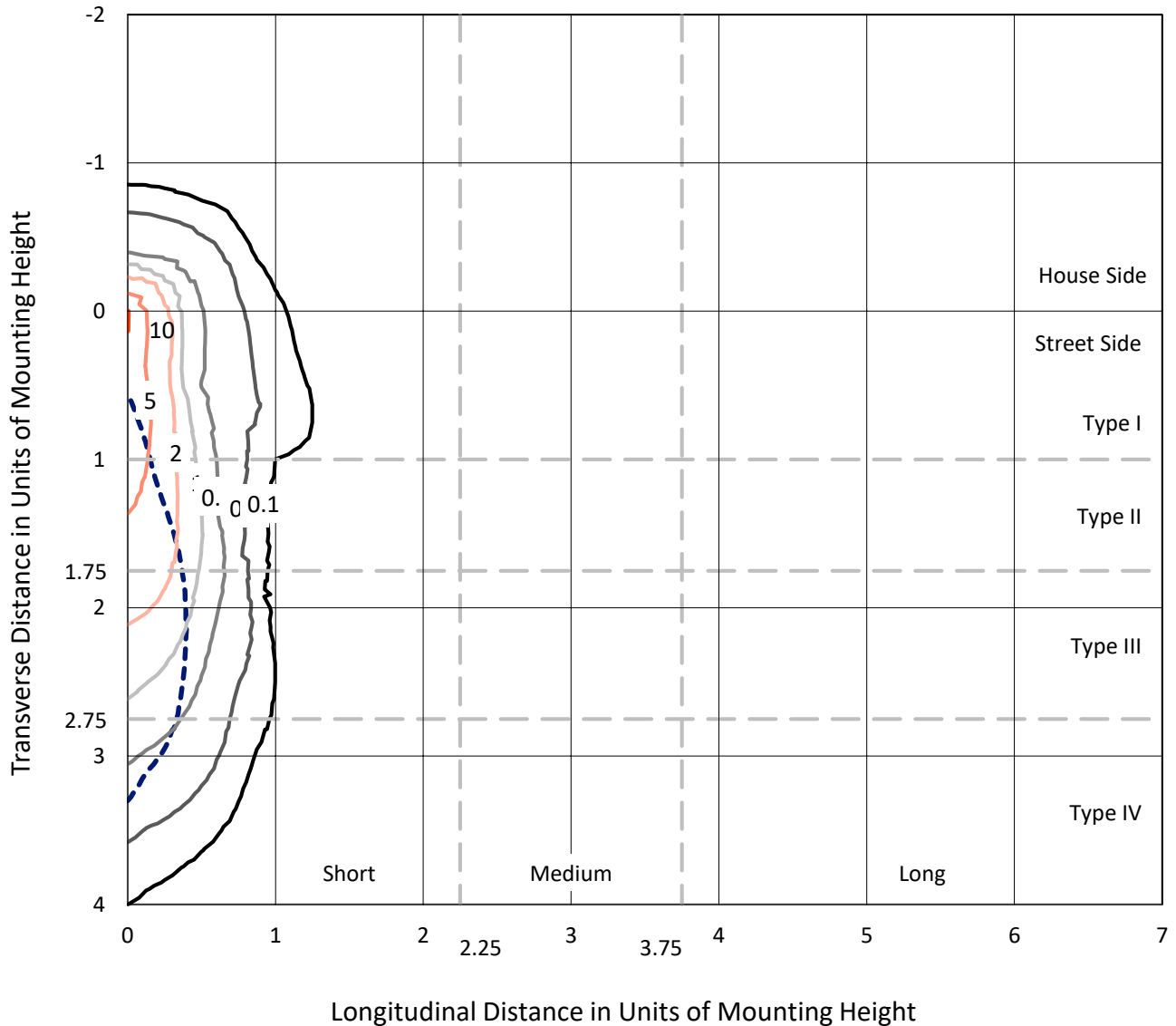




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### Iso-Footcandle Lines of Horizontal Illumination

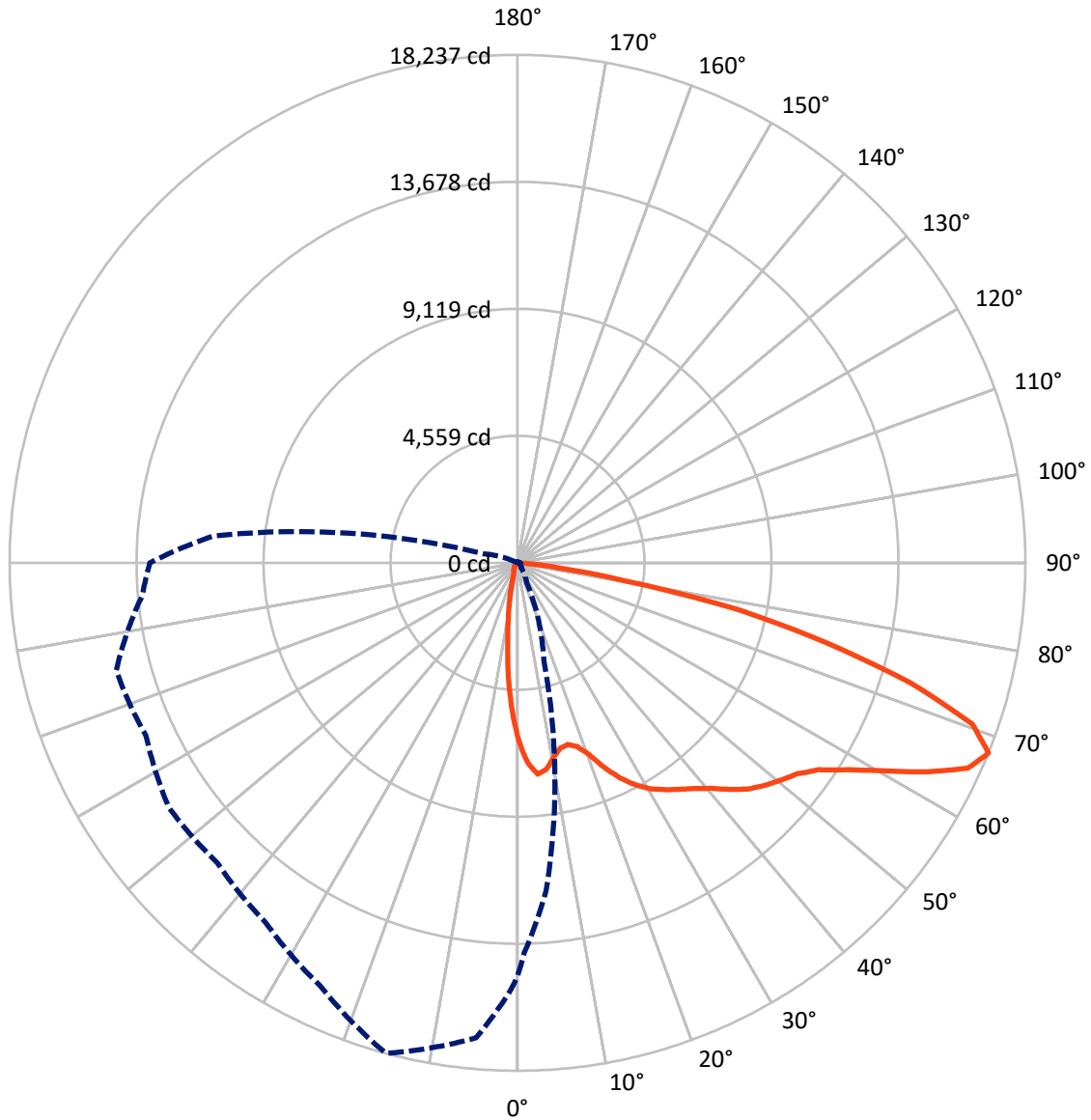
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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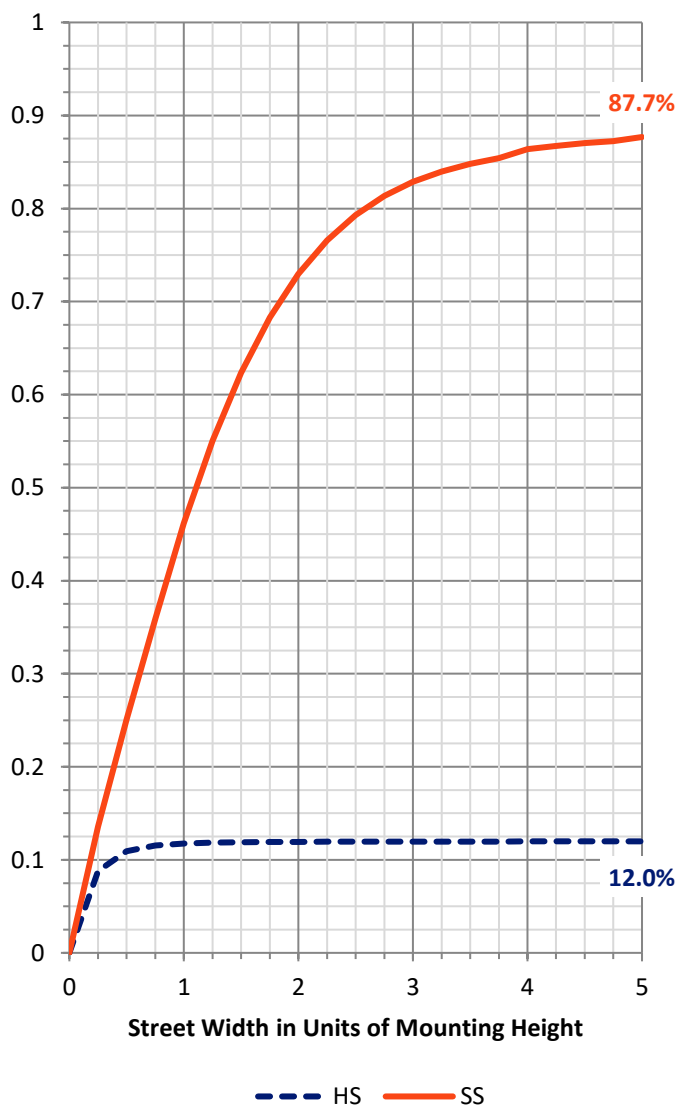
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2384.8	0.0	2384.8
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	17319.3	0.0	17319.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	19704.1	0.0	19704.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.6	2.5
10°-20°	980.5	5.0
20°-30°	1392.4	7.1
30°-40°	2056.6	10.4
40°-50°	2966.1	15.1
50°-60°	4163.8	21.1
60°-70°	4853.8	24.6
70°-80°	2481.3	12.6
80°-90°	316.9	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°	19704.1	100.0
0°-180°	19704.1	100.0

**Coefficient of Utilization**



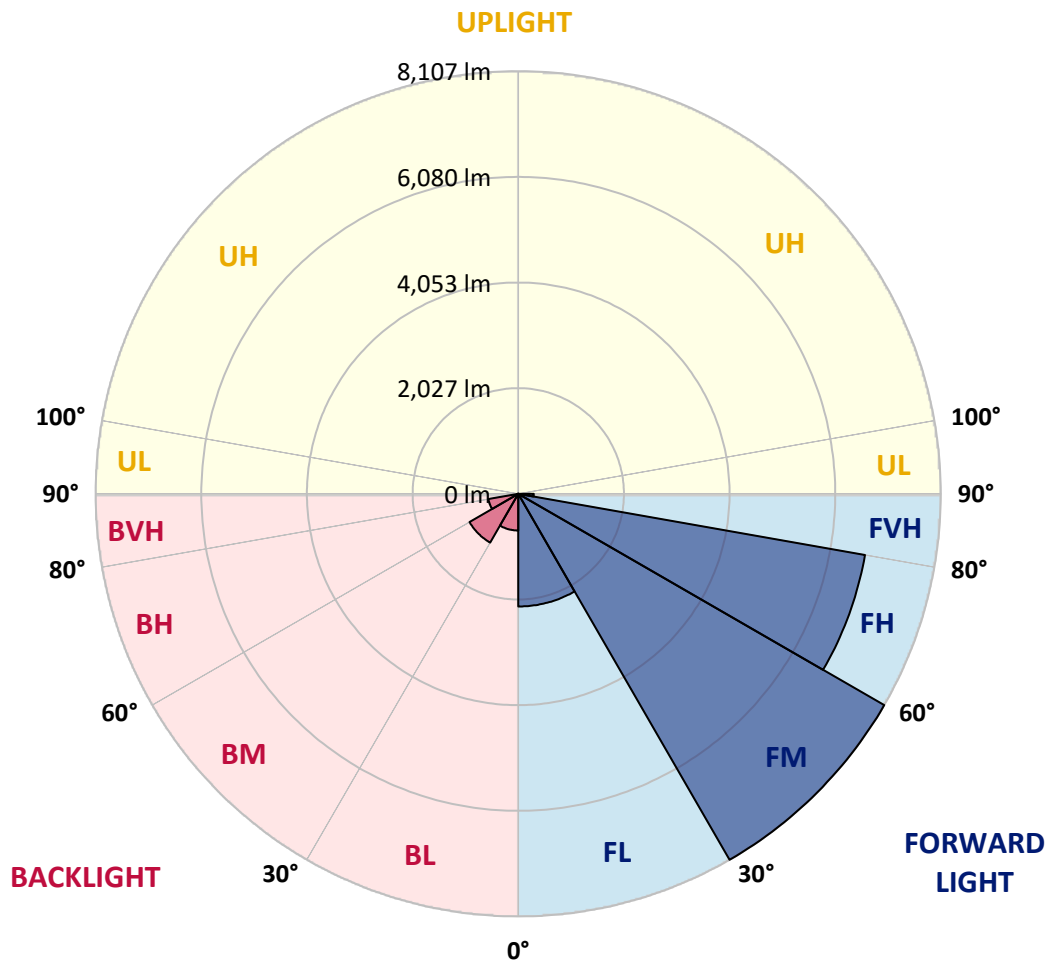
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2161.2	11.0			
FM	(30°-60°)	8106.6	41.1			
FH	(60°-80°)	6753.9	34.3			G3/7500
FVH	(80°-90°)	297.6	1.5			G3/500
BL	(0°-30°)	704.4	3.6	B2/1000		
BM	(30°-60°)	1079.9	5.5	B2/2500		
BH	(60°-80°)	581.3	2.9	B2/1000		G2/1000
BVH	(80°-90°)	19.3	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°	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5
2.5°	7028.2	6974.0	6914.2	6719.2	6538.1	6330.8	6161.9	6044.3	5896.8	5705.4	5656.8
5°	6977.8	6919.8	6732.2	6298.2	5918.2	5548.6	5192.0	4982.8	4723.4	4460.2	4394.8
7.5°	6470.8	6410.2	6139.5	5544.9	5033.3	4499.4	4036.3	3749.8	3456.7	3215.8	3087.9
10°	5943.5	5877.1	5572.9	4851.3	4221.2	3738.6	3398.8	3125.2	2848.0	2590.4	2385.0
12.5°	5580.3	5493.5	5163.0	4345.3	3796.4	3468.8	3151.4	2823.8	2448.5	2172.2	1946.3
15°	5428.1	5329.2	4980.1	4150.2	3646.2	3261.5	2848.0	2445.7	2006.0	1689.5	1482.4
17.5°	5545.8	5416.9	5042.7	4137.2	3457.6	2933.9	2411.1	1938.8	1461.8	1141.6	994.1
20°	5945.3	5776.3	5301.2	4133.5	3228.9	2544.6	1881.9	1347.9	963.3	774.8	697.3
22.5°	6574.5	6351.4	5672.8	4163.3	2992.7	2135.8	1359.1	915.7	723.4	625.4	579.7
25°	7334.4	7075.8	6207.6	4268.8	2785.5	1738.2	987.6	723.4	610.5	538.6	500.3
27.5°	8056.9	7846.8	6883.5	4420.9	2624.9	1417.0	801.9	613.3	521.9	474.3	443.4
30°	8778.4	8514.3	7577.0	4602.0	2431.7	1199.6	704.8	559.1	467.6	417.2	397.7
32.5°	9303.0	9083.6	8120.3	4732.7	2225.4	1057.6	630.1	511.5	436.9	385.6	356.6
35°	9920.1	9671.7	8586.1	4761.7	2092.8	968.0	566.7	460.2	379.0	333.2	302.5
37.5°	10586.6	10277.6	9123.8	4698.2	1989.2	924.1	519.1	436.9	353.8	307.1	274.4
40°	11324.0	10974.8	9640.0	4606.7	1887.5	909.2	482.6	419.1	334.1	286.5	253.0
42.5°	12100.6	11689.0	10087.2	4510.6	1823.0	857.9	478.9	401.4	319.2	267.9	234.3
45°	12753.2	12335.8	10546.4	4478.8	1777.3	801.9	494.7	389.3	309.0	253.0	220.3
47.5°	13273.1	12878.2	11016.9	4549.8	1751.2	750.5	450.9	405.1	303.4	239.9	208.2
50°	13893.8	13446.7	11679.7	4761.7	1712.9	699.1	407.9	463.9	303.4	231.5	197.9
52.5°	14672.3	14229.9	12418.9	5090.3	1636.4	628.2	366.8	464.8	306.2	220.3	184.8
55°	15651.6	15330.5	13474.7	5450.6	1514.1	523.7	317.4	399.5	295.0	199.7	172.7
57.5°	16590.7	16328.4	14437.1	5697.0	1350.7	408.9	276.3	322.0	269.8	175.5	154.0
59°	16847.3	16560.8	14790.0	5708.2	1228.4	356.6	255.8	266.0	264.2	164.3	142.8
60°	16847.3	16543.1	14891.7	5648.4	1139.7	327.6	242.7	237.1	275.4	156.8	136.3
62.5°	16542.1	16114.6	14561.3	5244.2	929.8	279.1	211.9	196.0	247.3	140.9	120.4
65°	15907.4	15284.7	13435.5	4513.3	828.9	255.8	183.0	160.6	171.8	124.2	105.5
67.5°	14848.8	14004.9	11812.2	3646.2	788.7	249.3	157.7	136.3	129.8	106.4	92.4
70°	12984.7	12048.4	9841.6	2866.7	754.3	246.4	132.6	114.9	104.5	89.6	78.4
72.5°	9450.5	8474.1	6987.1	2241.3	733.7	252.1	106.4	96.1	85.9	70.1	60.6
75°	5405.8	4766.4	3927.1	1480.5	625.4	240.8	82.2	80.3	61.6	50.4	42.0
77.5°	2793.0	2708.0	2353.3	568.5	299.7	105.5	54.1	46.7	36.4	30.8	25.2
80°	1205.1	1192.0	1031.5	164.3	79.4	58.8	30.8	19.6	16.8	13.0	10.2
82.5°	416.3	416.3	366.8	55.1	35.5	29.0	3.7	0.0	0.0	0.0	0.0
85°	84.0	94.3	66.2	0.0	12.1	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°	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5
2.5°	5598.0	5485.1	5477.6	5406.7	5318.0	5277.9	5254.5	5295.6	5346.0	5351.6	5427.2
5°	4345.3	4226.8	4276.3	4150.2	4175.5	4150.2	4109.1	4116.6	4139.1	4069.0	4155.8
7.5°	3051.6	2961.9	3018.9	2985.2	3030.0	3047.8	3022.6	2985.2	2875.1	2862.0	2937.6
10°	2300.1	2198.4	2137.6	2074.2	2088.2	2117.1	2107.8	2080.7	2010.7	2014.5	2087.2
12.5°	1848.3	1734.4	1614.0	1458.1	1419.8	1441.3	1419.8	1403.9	1336.8	1342.4	1406.7
15°	1402.1	1308.7	1182.7	1057.6	989.5	996.0	936.3	894.3	852.3	801.9	841.1
17.5°	946.5	889.6	852.3	814.9	733.7	715.1	639.4	558.2	526.5	503.1	520.0
20°	670.2	639.4	624.5	622.6	576.0	552.6	478.9	428.4	412.6	407.9	418.2
22.5°	560.0	537.7	516.2	504.1	480.8	453.7	397.7	372.4	361.3	355.7	363.1
25°	487.3	470.4	448.1	427.5	418.2	389.3	349.1	330.4	323.0	317.4	321.1
27.5°	433.2	418.2	392.1	379.0	371.5	346.3	311.8	296.9	290.3	288.4	287.5
30°	390.2	376.2	351.9	336.9	323.9	301.5	281.0	266.0	259.5	257.7	255.8
32.5°	347.3	336.0	320.2	305.3	291.2	270.7	253.0	240.8	230.6	228.7	227.8
35°	293.1	281.9	273.5	272.6	259.5	239.9	226.8	211.0	202.5	199.7	200.7
37.5°	260.5	245.5	226.8	233.4	229.6	215.7	197.9	182.0	173.6	171.8	171.8
40°	239.9	224.0	202.5	191.3	202.5	199.7	171.8	155.8	147.5	146.5	144.7
42.5°	220.3	204.5	180.2	161.5	167.1	175.5	148.4	133.5	125.1	123.2	120.4
45°	206.3	189.5	162.5	140.9	129.8	147.5	127.0	108.2	103.6	99.9	98.0
47.5°	193.2	177.4	146.5	122.3	103.6	106.4	101.7	88.7	83.1	79.4	78.4
50°	182.0	165.3	132.6	104.5	85.9	78.4	82.2	70.1	65.3	61.6	59.7
52.5°	169.0	153.1	117.7	90.5	71.9	61.6	62.5	55.1	50.4	47.6	46.7
55°	158.7	142.8	105.5	79.4	63.4	50.4	44.8	42.9	40.1	38.3	37.4
57.5°	144.7	129.8	93.3	67.2	54.1	41.1	34.6	34.6	33.6	31.8	30.8
59°	136.3	123.2	85.9	60.6	49.5	35.5	30.8	31.8	30.8	29.0	28.0
60°	129.8	117.7	80.3	56.0	46.7	32.7	28.0	29.9	29.0	27.1	26.2
62.5°	114.9	106.4	69.1	46.7	41.1	26.2	23.4	25.2	25.2	24.3	23.4
65°	100.8	91.5	58.8	39.2	38.3	22.4	18.6	22.4	23.4	21.4	19.6
67.5°	87.8	78.4	51.3	31.8	35.5	17.7	14.0	18.6	25.2	19.6	17.7
70°	74.7	65.3	40.1	25.2	37.4	12.1	11.2	16.8	29.9	21.4	16.8
72.5°	57.8	50.4	28.0	18.6	40.1	8.4	8.4	14.0	33.6	23.4	15.8
75°	40.1	32.7	16.8	11.2	32.7	5.6	5.6	13.0	31.8	21.4	14.9
77.5°	23.4	17.7	5.6	0.9	16.8	0.0	0.9	9.3	22.4	13.0	6.5
80°	8.4	3.7	0.0	0.0	10.2	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°	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5
2.5°	5446.9	5572.9	5685.8	5856.6	6059.2	6292.5	6493.3	6708.9	6911.4	6995.5	7053.3
5°	4173.5	4329.5	4511.5	4762.6	5096.8	5508.4	5894.0	6329.9	6798.5	7032.8	7253.1
7.5°	2950.7	3109.4	3335.3	3602.3	4006.5	4496.6	5000.6	5602.7	6237.5	6608.0	6973.1
10°	2121.8	2316.9	2527.8	2892.8	3303.5	3768.5	4287.4	4959.6	5667.2	6077.9	6517.5
12.5°	1444.1	1666.3	1985.5	2394.4	2877.0	3332.5	3783.4	4424.7	5246.1	5653.1	6124.6
15°	866.2	989.5	1327.4	1800.7	2392.5	2960.1	3453.9	4097.0	4972.6	5471.1	5961.2
17.5°	534.0	590.9	774.8	1163.1	1784.8	2502.6	3179.4	3985.9	5011.8	5618.6	6143.2
20°	425.6	448.1	506.9	687.0	1182.7	1998.5	2870.5	3963.5	5332.0	6078.8	6641.7
22.5°	369.6	391.2	430.4	499.4	743.9	1496.3	2577.3	3984.0	5791.2	6768.6	7425.8
25°	325.8	344.5	381.7	438.8	545.1	1053.9	2263.7	4075.5	6389.7	7624.6	8322.8
27.5°	291.2	307.1	341.7	394.0	467.6	735.5	1908.0	4186.7	7099.0	8500.2	9189.2
30°	259.5	273.5	304.3	352.9	406.1	565.7	1517.9	4262.2	7809.4	9189.2	9808.0
32.5°	232.4	242.7	270.7	311.8	352.9	450.9	1153.8	4250.1	8336.9	9762.2	10253.3
35°	204.5	214.7	238.9	274.4	307.1	372.4	907.3	4023.3	8796.1	10356.9	10763.0
37.5°	173.6	186.7	210.1	241.7	264.2	327.6	733.7	3749.8	9261.9	11036.5	11331.4
40°	147.5	160.6	181.1	215.7	229.6	310.9	563.8	3416.5	9785.6	11796.3	11955.0
42.5°	122.3	134.4	155.8	185.8	216.6	267.9	417.2	3035.6	10288.8	12446.0	12523.5
45°	98.9	111.0	133.5	163.4	231.5	222.2	323.0	2627.7	10694.8	12986.5	13011.7
47.5°	78.4	89.6	113.0	154.0	215.7	177.4	230.6	2307.5	11035.6	13408.4	13342.2
50°	60.6	70.1	94.3	176.4	188.5	146.5	174.6	2201.2	11340.8	13669.8	13498.0
52.5°	47.6	56.0	77.5	165.3	146.5	121.4	146.5	2301.0	11759.0	13886.4	13585.8
55°	38.3	46.7	60.6	94.3	99.9	102.7	125.1	2394.4	12480.6	14394.2	14103.9
57.5°	31.8	40.1	49.5	66.2	75.6	86.8	111.0	2404.6	13330.9	15238.1	14963.6
59°	29.0	36.4	44.8	58.8	66.2	79.4	104.5	2348.6	13630.6	15545.2	15407.9
60°	27.1	34.6	42.0	54.1	61.6	74.7	100.8	2295.4	13643.6	15533.9	15597.5
62.5°	23.4	30.8	37.4	45.7	52.3	63.4	90.5	2098.5	13091.0	15025.2	15483.5
65°	20.5	27.1	33.6	39.2	44.8	56.9	82.2	1739.1	12147.3	14204.7	14704.1
67.5°	18.6	23.4	30.8	34.6	40.1	50.4	72.8	1239.6	10968.3	13201.2	13525.1
70°	16.8	22.4	28.0	31.8	36.4	43.9	62.5	712.3	9261.9	11731.9	11962.5
72.5°	15.8	21.4	25.2	29.9	32.7	39.2	56.9	335.1	6781.7	9398.2	10000.3
75°	14.0	19.6	23.4	28.0	30.8	35.5	48.5	160.6	4510.6	6801.3	7485.5
77.5°	8.4	15.8	21.4	25.2	27.1	30.8	40.1	92.4	2878.9	4707.5	5544.9
80°	0.0	5.6	15.8	21.4	23.4	26.2	30.8	72.8	1540.2	2689.4	3228.0
82.5°	0.0	0.0	11.2	16.8	15.8	17.7	23.4	45.7	694.5	1757.7	1980.8
85°	0.0	0.0	3.7	13.0	11.2	8.4	15.8	15.8	152.1	889.6	1109.9
87.5°	0.0	0.0	0.0	0.9	5.6	3.7	6.5	1.9	0.9	66.2	268.8
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: P383116

CATALOG NUMBER: GLEON-SA4C-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5	6418.5
2.5°	7255.9	7324.9	7441.7	7496.7	7469.7	7354.8	7217.6	7077.6	6995.5	7028.2
5°	7702.1	8057.8	8263.1	8331.3	8217.4	7959.7	7622.8	7178.4	7020.7	6977.8
7.5°	7702.1	8371.4	8795.2	8869.9	8616.0	8111.0	7479.0	6785.4	6554.8	6470.8
10°	7431.4	8342.5	8933.4	9051.9	8697.2	7942.0	7095.3	6303.8	6030.3	5943.5
12.5°	7126.2	8107.3	8729.8	8893.2	8602.0	7774.0	6829.3	5977.9	5655.9	5580.3
15°	6938.5	7817.8	8333.2	8451.7	8328.5	7676.0	6765.8	5879.9	5501.0	5428.1
17.5°	7005.7	7593.8	7779.5	7848.7	7931.8	7641.4	6938.5	6094.7	5614.8	5545.8
20°	7258.7	7357.6	7261.5	7348.3	7572.4	7675.0	7350.2	6613.7	6037.7	5945.3
22.5°	7688.1	7235.3	6965.6	7000.1	7272.7	7786.2	7979.4	7354.8	6690.2	6574.5
25°	8188.4	7334.4	6801.3	6770.5	7050.5	7932.7	8554.4	8161.4	7462.2	7334.4
27.5°	8817.6	7556.4	6767.7	6736.9	6973.1	8069.9	9032.3	8958.6	8275.2	8056.9
30°	9303.0	7774.9	6867.6	6796.7	7050.5	8165.1	9416.0	9635.4	8923.1	8778.4
32.5°	9651.2	8032.5	7030.0	6927.4	7269.0	8329.4	9711.8	10255.1	9522.4	9303.0
35°	9916.3	8312.6	7292.3	7123.4	7569.6	8578.6	9989.1	10915.1	10159.9	9920.1
37.5°	10164.6	8705.6	7702.1	7500.4	8040.9	8980.0	10282.2	11663.7	10873.1	10586.6
40°	10510.9	9150.9	8334.1	8154.9	8833.5	9527.0	10648.1	12444.2	11684.3	11324.0
42.5°	10857.3	9628.8	8981.0	9029.5	9822.1	10191.7	11120.4	13269.3	12485.3	12100.6
45°	11173.7	10121.6	9902.3	10126.3	10739.6	10920.7	11590.0	13746.4	13124.7	12753.2
47.5°	11455.6	10737.8	10818.1	11414.5	11783.2	11580.7	11941.0	14158.0	13600.7	13273.1
50°	11783.2	11535.0	12025.0	12868.9	12984.7	12178.1	12260.3	14645.3	14157.1	13893.8
52.5°	12141.7	12375.1	13361.7	14105.8	14068.4	12826.9	12581.4	15191.4	14919.8	14672.3
55°	12548.7	13053.7	14538.8	15263.2	15231.5	13551.2	13113.5	15866.3	15875.6	15651.6
57.5°	13152.6	13638.0	15337.9	16199.5	16252.7	14387.7	14015.2	16622.3	16740.0	16590.7
59°	13585.8	14017.1	15654.4	16590.7	16807.2	15034.5	14674.2	17061.1	16983.6	16847.3
60°	13906.9	14257.9	15811.2	16795.1	17129.3	15473.3	15160.6	17318.8	17012.6	16847.3
62.5°	14701.3	14782.5	16094.1	17026.5	17499.9	16447.9	16529.0	17757.5	16811.9	16542.1
65°	15071.9	15113.9	16090.3	16612.1	17141.4	17206.7	17770.6	17770.6	16321.8	15907.4
67.5°	14917.0	14714.4	15292.2	15238.1	15766.3	16755.8	18237.3	17119.0	15384.6	14848.8
70°	13656.8	12877.2	12620.6	12643.9	13048.1	14574.3	17313.2	15201.6	13611.0	12984.7
72.5°	11363.2	9493.4	8859.6	9583.0	9688.6	11200.7	14754.5	11448.2	10037.6	9450.5
75°	9139.7	6692.1	5661.5	6425.1	6604.3	8196.9	11413.6	7129.9	5863.2	5405.8
77.5°	6566.1	4803.6	4062.5	4009.3	4240.8	5198.5	8098.8	3588.3	2992.7	2793.0
80°	3730.2	3161.7	3404.3	3212.1	3328.8	3250.4	3847.8	1573.8	1289.2	1205.1
82.5°	2251.6	1868.8	2023.8	1684.9	2132.0	1856.7	1482.4	504.1	437.8	416.3
85°	1464.6	1021.3	532.1	356.6	734.6	1186.4	331.4	137.2	105.5	84.0
87.5°	505.0	260.5	26.2	11.2	78.4	221.2	12.1	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)