

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: P383312

Luminaire Tested: **GLEON-SA6B-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383312  
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-SA6B-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA 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: 23601.7 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

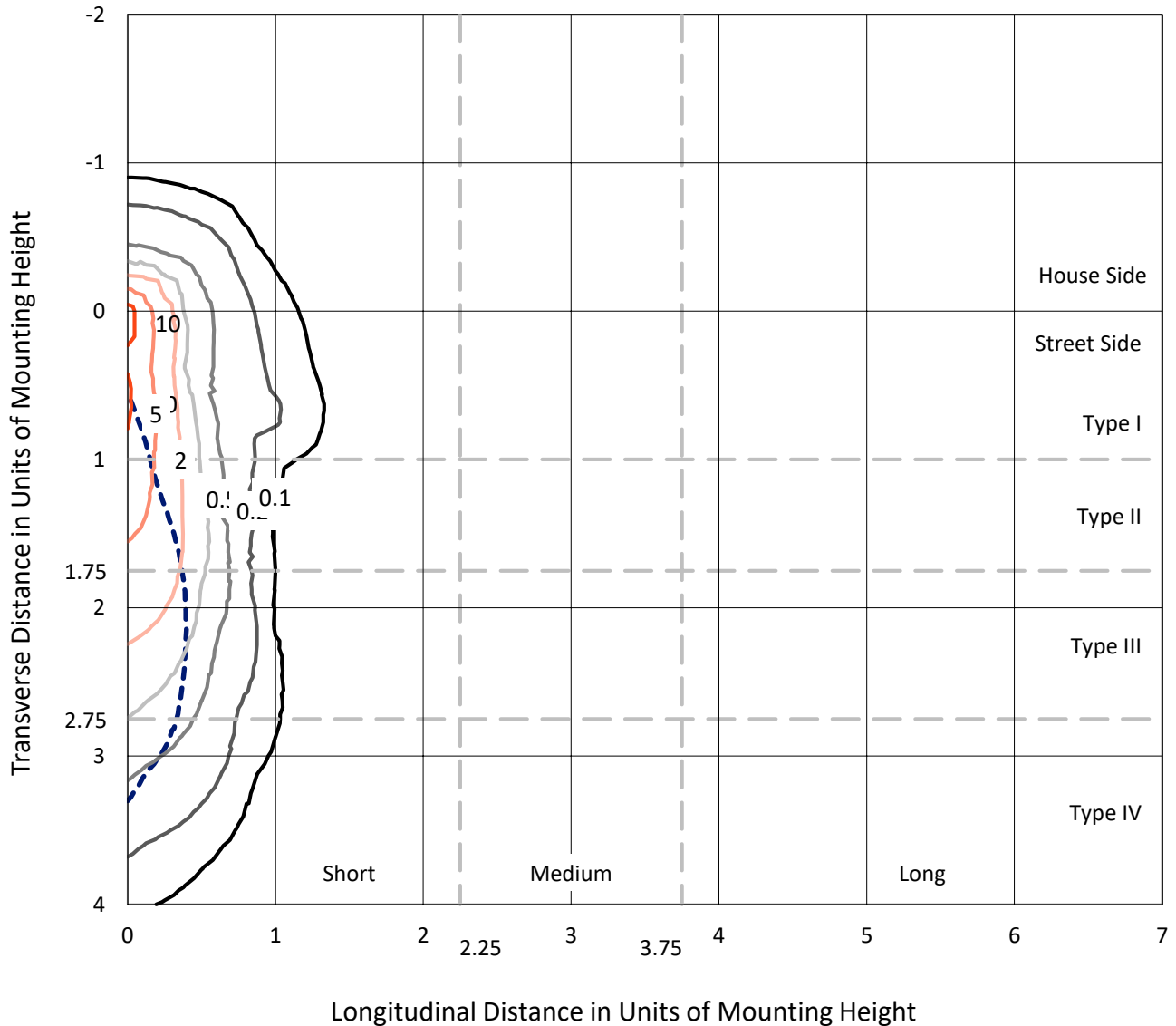
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

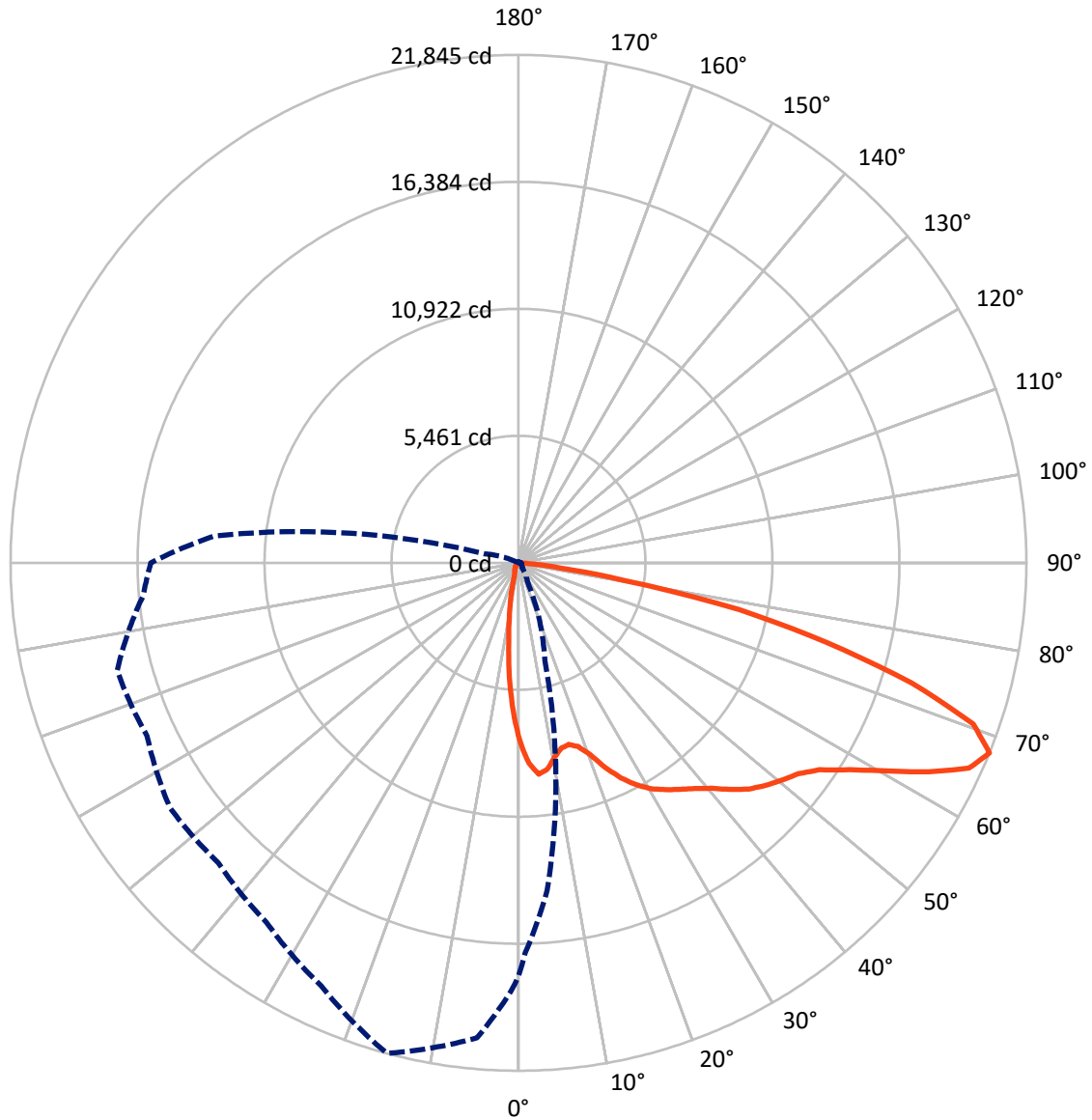
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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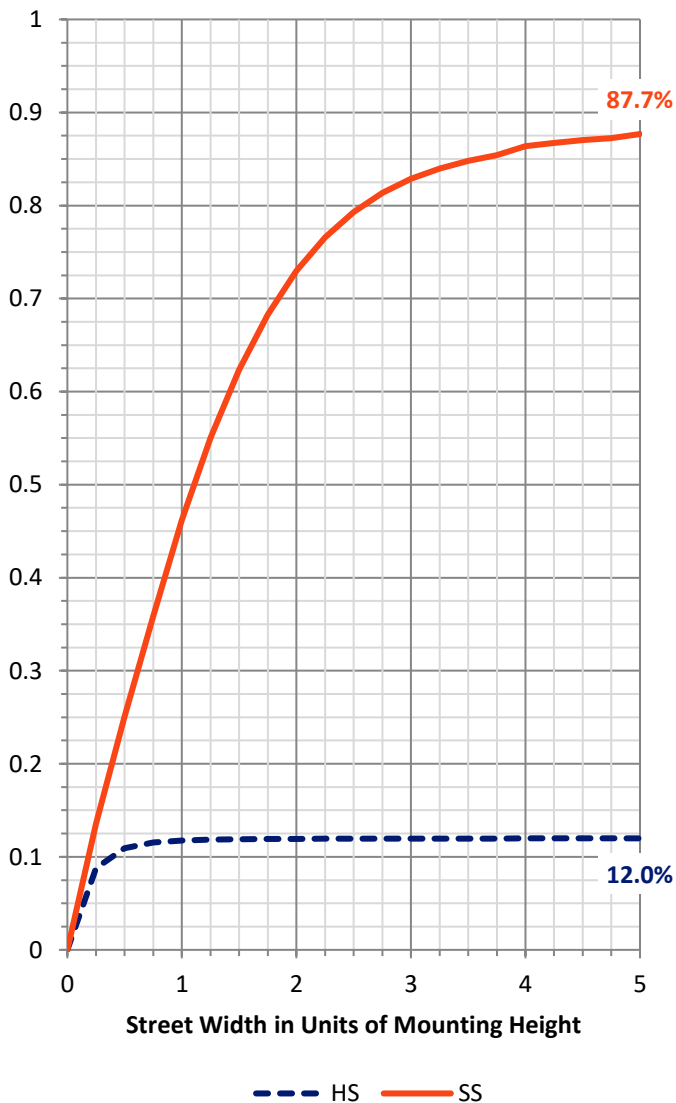
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2856.6	0.0	2856.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	20745.1	0.0	20745.1
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	23601.7	0.0	23601.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.1	2.5
10°-20°	1174.5	5.0
20°-30°	1667.8	7.1
30°-40°	2463.5	10.4
40°-50°	3552.8	15.1
50°-60°	4987.4	21.1
60°-70°	5813.9	24.6
70°-80°	2972.2	12.6
80°-90°	379.6	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°	23601.7	100.0
0°-180°	23601.7	100.0

**Coefficient of Utilization**

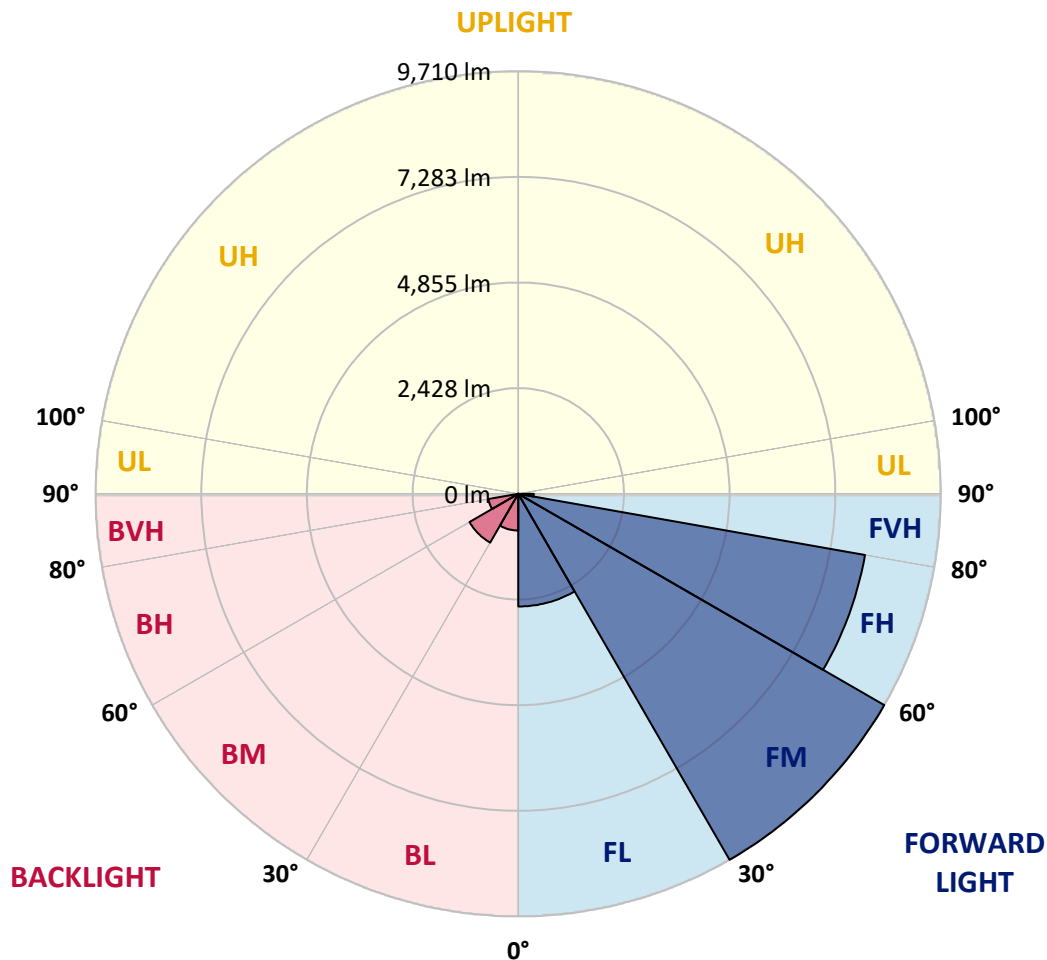


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.6	11.0			
FM (30°-60°)	9710.1	41.1			
FH (60°-80°)	8089.8	34.3			G4/12000
FVH (80°-90°)	356.5	1.5			G3/500
BL (0°-30°)	843.7	3.6	B2/1000		
BM (30°-60°)	1293.6	5.5	B2/2500		
BH (60°-80°)	696.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	23.1	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2
2.5°	8418.3	8353.5	8281.9	8048.2	7831.3	7583.1	7380.7	7239.8	7063.2	6833.9	6775.8
5°	8357.9	8288.6	8063.9	7544.0	7088.9	6646.1	6219.0	5968.5	5657.7	5342.4	5264.1
7.5°	7750.8	7678.2	7353.9	6641.7	6028.9	5389.4	4834.7	4491.5	4140.4	3851.9	3698.7
10°	7119.1	7039.7	6675.2	5810.9	5056.2	4478.0	4071.0	3743.5	3411.4	3102.8	2856.8
12.5°	6684.1	6580.2	6184.4	5204.8	4547.4	4155.0	3774.8	3382.4	2932.8	2601.9	2331.3
15°	6501.9	6383.3	5965.2	4971.2	4367.4	3906.7	3411.4	2929.4	2402.8	2023.8	1775.6
17.5°	6642.8	6488.4	6040.1	4955.6	4141.6	3514.3	2888.1	2322.3	1750.9	1367.4	1190.8
20°	7121.3	6919.0	6349.8	4951.1	3867.6	3048.0	2254.2	1614.6	1153.9	928.0	835.2
22.5°	7874.9	7607.7	6794.8	4986.9	3584.7	2558.3	1628.0	1096.9	866.5	749.2	694.4
25°	8785.1	8475.4	7435.5	5113.2	3336.4	2081.9	1183.0	866.5	731.3	645.2	599.4
27.5°	9650.6	9398.9	8245.0	5295.4	3144.2	1697.3	960.4	734.6	625.1	568.0	531.1
30°	10514.8	10198.4	9075.8	5512.3	2912.7	1436.8	844.2	669.8	560.1	499.8	476.3
32.5°	11143.2	10880.5	9726.6	5668.8	2665.6	1266.8	754.7	612.8	523.3	461.8	427.1
35°	11882.3	11584.8	10284.5	5703.6	2506.8	1159.5	678.7	551.2	453.9	399.2	362.3
37.5°	12680.6	12310.5	10928.5	5627.5	2382.7	1107.0	621.7	523.3	423.8	367.9	328.7
40°	13563.9	13145.7	11546.8	5517.9	2260.9	1089.1	578.0	502.0	400.3	343.3	303.0
42.5°	14494.2	14001.2	12082.5	5402.8	2183.7	1027.6	573.6	480.8	382.4	320.9	280.7
45°	15275.8	14776.0	12632.5	5364.8	2128.9	960.4	592.7	466.2	370.1	303.0	263.9
47.5°	15898.5	15425.6	13196.1	5449.7	2097.6	898.9	540.0	485.2	363.4	287.4	249.4
50°	16642.1	16106.6	13990.0	5703.6	2051.7	837.5	488.6	555.7	363.4	277.3	237.1
52.5°	17574.7	17044.6	14875.5	6097.2	1960.1	752.5	439.4	556.8	366.8	263.9	221.4
55°	18747.6	18362.9	16140.1	6528.8	1813.6	627.3	380.2	478.5	353.3	239.3	206.9
57.5°	19872.4	19558.2	17292.9	6823.9	1617.9	489.7	331.0	385.8	323.2	210.3	184.4
59°	20179.8	19836.6	17715.5	6837.3	1471.5	427.1	306.4	318.7	316.4	196.8	171.0
60°	20179.8	19815.3	17837.4	6765.7	1365.2	392.5	290.7	284.0	329.9	187.8	163.2
62.5°	19814.2	19302.1	17441.6	6281.6	1113.7	334.3	253.8	234.8	296.3	168.8	144.2
65°	19053.9	18308.2	16093.1	5406.1	992.9	306.4	219.2	192.3	205.8	148.7	126.3
67.5°	17785.9	16775.2	14148.7	4367.4	944.8	298.6	188.9	163.2	155.4	127.4	110.7
70°	15553.1	14431.6	11788.4	3433.8	903.4	295.2	158.7	137.5	125.2	107.3	93.9
72.5°	11319.9	10150.3	8369.1	2684.6	878.8	301.9	127.4	115.1	102.8	83.8	72.7
75°	6475.0	5709.2	4703.9	1773.4	749.2	288.5	98.4	96.1	73.8	60.4	50.3
77.5°	3345.5	3243.6	2818.8	681.0	358.9	126.3	64.8	55.9	43.6	36.9	30.2
80°	1443.5	1427.9	1235.5	196.8	95.0	70.4	36.9	23.5	20.1	15.6	12.3
82.5°	498.7	498.7	439.4	66.0	42.5	34.7	4.5	0.0	0.0	0.0	0.0
85°	100.6	112.9	79.4	0.0	14.5	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°	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2
2.5°	6705.4	6570.1	6561.2	6476.1	6369.9	6321.9	6293.9	6343.1	6403.5	6410.2	6500.8
5°	5204.8	5062.9	5122.1	4971.2	5001.4	4971.2	4922.0	4931.0	4957.8	4873.9	4977.9
7.5°	3655.1	3547.8	3616.0	3575.7	3629.4	3650.6	3620.5	3575.7	3443.8	3428.2	3518.7
10°	2755.1	2633.2	2560.5	2484.4	2501.2	2535.9	2524.7	2492.3	2408.4	2412.9	2500.1
12.5°	2213.9	2077.4	1933.2	1746.5	1700.6	1726.3	1700.6	1681.6	1601.1	1607.9	1685.0
15°	1679.4	1567.6	1416.7	1266.8	1185.2	1193.0	1121.5	1071.2	1020.9	960.4	1007.5
17.5°	1133.8	1065.6	1020.9	976.1	878.8	856.5	765.9	668.7	630.7	602.7	622.8
20°	802.8	765.9	748.0	745.8	689.9	662.0	573.6	513.2	494.2	488.6	500.9
22.5°	670.9	644.1	618.4	603.8	575.8	543.4	476.3	446.1	432.7	426.0	434.9
25°	583.6	563.5	536.7	512.1	500.9	466.2	418.2	395.8	386.9	380.2	384.6
27.5°	518.8	500.9	469.6	453.9	445.0	414.8	373.5	355.6	347.7	345.5	344.4
30°	467.4	450.6	421.5	403.6	388.0	361.2	336.6	318.7	310.9	308.6	306.4
32.5°	415.9	402.5	383.5	365.6	348.9	324.3	303.0	288.5	276.2	274.0	272.9
35°	351.1	337.7	327.6	326.5	310.9	287.4	271.7	252.7	242.7	239.3	240.4
37.5°	312.0	294.1	271.7	279.6	275.1	258.3	237.1	218.1	208.0	205.8	205.8
40°	287.4	268.4	242.7	229.3	242.7	239.3	205.8	186.7	176.6	175.5	173.3
42.5°	263.9	244.9	215.8	193.4	200.2	210.3	177.7	159.9	149.8	147.6	144.2
45°	247.1	227.0	194.5	168.8	155.4	176.6	152.0	129.7	124.1	119.6	117.4
47.5°	231.5	212.5	175.5	146.4	124.1	127.4	121.8	106.2	99.5	95.0	93.9
50°	218.1	198.0	158.7	125.2	102.8	93.9	98.4	83.8	78.2	73.8	71.5
52.5°	202.4	183.3	140.8	108.4	86.1	73.8	74.9	66.0	60.4	57.0	55.9
55°	190.0	171.0	126.3	95.0	76.0	60.4	53.7	51.4	48.1	45.8	44.7
57.5°	173.3	155.4	111.8	80.5	64.8	49.2	41.4	41.4	40.2	38.0	36.9
59°	163.2	147.6	102.8	72.7	59.2	42.5	36.9	38.0	36.9	34.7	33.5
60°	155.4	140.8	96.1	67.1	55.9	39.1	33.5	35.8	34.7	32.4	31.3
62.5°	137.5	127.4	82.7	55.9	49.2	31.3	27.9	30.2	30.2	29.1	27.9
65°	120.7	109.5	70.4	46.9	45.8	26.8	22.4	26.8	27.9	25.7	23.5
67.5°	105.1	93.9	61.5	38.0	42.5	21.2	16.8	22.4	30.2	23.5	21.2
70°	89.4	78.2	48.1	30.2	44.7	14.5	13.4	20.1	35.8	25.7	20.1
72.5°	69.3	60.4	33.5	22.4	48.1	10.1	10.1	16.8	40.2	27.9	19.0
75°	48.1	39.1	20.1	13.4	39.1	6.7	6.7	15.6	38.0	25.7	17.9
77.5°	27.9	21.2	6.7	1.1	20.1	0.0	1.1	11.2	26.8	15.6	7.8
80°	10.1	4.5	0.0	0.0	12.3	0.0	0.0	0.0	2.2	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°	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2
2.5°	6524.3	6675.2	6810.5	7015.1	7257.7	7537.2	7777.7	8035.9	8278.6	8379.2	8448.5
5°	4999.2	5185.8	5403.9	5704.7	6105.0	6598.1	7059.8	7582.0	8143.3	8423.9	8687.8
7.5°	3534.4	3724.4	3995.0	4314.8	4799.0	5386.0	5989.8	6711.0	7471.3	7915.2	8352.3
10°	2541.4	2775.2	3027.9	3465.1	3957.0	4513.8	5135.5	5940.6	6788.1	7280.1	7806.7
12.5°	1729.7	1995.8	2378.2	2868.0	3446.1	3991.7	4531.8	5299.9	6283.8	6771.3	7336.0
15°	1037.7	1185.2	1590.0	2156.8	2865.7	3545.6	4137.1	4907.4	5956.2	6553.3	7140.3
17.5°	639.6	707.8	928.0	1393.2	2137.8	2997.7	3808.4	4774.4	6003.2	6730.0	7358.4
20°	509.8	536.7	607.2	822.9	1416.7	2393.9	3438.2	4747.5	6386.7	7281.3	7955.4
22.5°	442.8	468.5	515.4	598.2	891.1	1792.4	3087.1	4772.1	6936.9	8107.5	8894.7
25°	390.2	412.6	457.3	525.5	653.0	1262.3	2711.5	4881.7	7653.5	9132.8	9969.1
27.5°	348.9	367.9	409.2	471.8	560.1	881.1	2285.5	5014.8	8503.4	10181.6	11006.8
30°	310.9	327.6	364.5	422.6	486.4	677.6	1818.1	5105.3	9354.2	11006.8	11748.1
32.5°	278.4	290.7	324.3	373.5	422.6	540.0	1382.0	5090.8	9985.9	11693.3	12281.4
35°	244.9	257.2	286.3	328.7	367.9	446.1	1086.8	4819.1	10536.1	12405.6	12892.0
37.5°	208.0	223.7	251.6	289.6	316.4	392.5	878.8	4491.5	11094.0	13219.6	13572.9
40°	176.6	192.3	217.0	258.3	275.1	372.3	675.4	4092.3	11721.3	14129.7	14319.7
42.5°	146.4	161.0	186.7	222.5	259.4	320.9	499.8	3636.1	12323.9	14907.9	15000.7
45°	118.5	133.0	159.9	195.6	277.3	266.1	386.9	3147.5	12810.4	15555.4	15585.5
47.5°	93.9	107.3	135.3	184.4	258.3	212.5	276.2	2764.0	13218.5	16060.7	15981.4
50°	72.7	83.8	112.9	211.4	225.9	175.5	209.1	2636.6	13584.1	16373.8	16168.0
52.5°	57.0	67.1	92.8	198.0	175.5	145.3	175.5	2756.2	14085.0	16633.2	16273.1
55°	45.8	55.9	72.7	112.9	119.6	123.0	149.8	2868.0	14949.3	17241.5	16893.7
57.5°	38.0	48.1	59.2	79.4	90.5	104.0	133.0	2880.3	15967.9	18252.2	17923.5
59°	34.7	43.6	53.7	70.4	79.4	95.0	125.2	2813.2	16326.9	18620.1	18455.7
60°	32.4	41.4	50.3	64.8	73.8	89.4	120.7	2749.5	16342.5	18606.6	18682.7
62.5°	27.9	36.9	44.7	54.8	62.6	76.0	108.4	2513.5	15680.6	17997.3	18546.3
65°	24.6	32.4	40.2	46.9	53.7	68.2	98.4	2083.0	14550.1	17014.4	17612.7
67.5°	22.4	27.9	36.9	41.4	48.1	60.4	87.2	1484.9	13137.9	15812.5	16200.5
70°	20.1	26.8	33.5	38.0	43.6	52.5	74.9	853.1	11094.0	14052.6	14328.7
72.5°	19.0	25.7	30.2	35.8	39.1	46.9	68.2	401.4	8123.2	11257.3	11978.4
75°	16.8	23.5	27.9	33.5	36.9	42.5	58.1	192.3	5402.8	8146.7	8966.2
77.5°	10.1	19.0	25.7	30.2	32.4	36.9	48.1	110.7	3448.3	5638.7	6641.7
80°	0.0	6.7	19.0	25.7	27.9	31.3	36.9	87.2	1844.9	3221.3	3866.5
82.5°	0.0	0.0	13.4	20.1	19.0	21.2	27.9	54.8	831.9	2105.4	2372.7
85°	0.0	0.0	4.5	15.6	13.4	10.1	19.0	19.0	182.2	1065.6	1329.4
87.5°	0.0	0.0	0.0	1.1	6.7	4.5	7.8	2.2	1.1	79.4	322.0
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: P383312

CATALOG NUMBER: GLEON-SA6B-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2	7688.2
2.5°	8691.2	8773.9	8913.7	8979.7	8947.2	8809.6	8645.3	8477.6	8379.2	8418.3
5°	9225.6	9651.7	9897.6	9979.2	9842.8	9534.2	9130.6	8598.4	8409.4	8357.9
7.5°	9225.6	10027.3	10535.0	10624.4	10320.2	9715.4	8958.4	8127.7	7851.5	7750.8
10°	8901.4	9992.6	10700.4	10842.5	10417.5	9513.0	8498.9	7550.7	7223.0	7119.1
12.5°	8535.8	9710.9	10456.7	10652.3	10303.5	9311.7	8180.2	7160.4	6774.7	6684.1
15°	8311.0	9364.3	9981.4	10123.5	9975.9	9194.3	8104.2	7043.1	6589.1	6501.9
17.5°	8391.5	9095.9	9318.5	9401.2	9500.7	9152.9	8311.0	7300.3	6725.5	6642.8
20°	8694.5	8813.0	8697.9	8801.8	9070.2	9193.2	8804.1	7921.9	7232.0	7121.3
22.5°	9208.8	8666.6	8343.4	8384.8	8711.3	9326.3	9557.7	8809.6	8013.5	7874.9
25°	9808.2	8785.1	8146.7	8109.8	8445.1	9501.8	10246.5	9775.8	8938.3	8785.1
27.5°	10561.8	9051.2	8106.4	8069.5	8352.3	9666.2	10819.0	10730.6	9912.1	9650.6
30°	11143.2	9312.9	8226.0	8141.1	8445.1	9780.2	11278.5	11541.2	10688.1	10514.8
32.5°	11560.2	9621.4	8420.5	8297.6	8706.8	9977.0	11633.0	12283.7	11406.0	11143.2
35°	11877.8	9956.8	8734.7	8532.4	9066.8	10275.5	11965.0	13074.2	12169.6	11882.3
37.5°	12175.2	10427.7	9225.6	8984.1	9631.5	10756.3	12316.1	13971.0	13023.9	12680.6
40°	12590.1	10961.0	9982.6	9767.9	10580.8	11411.6	12754.4	14905.7	13995.6	13563.9
42.5°	13004.9	11533.4	10757.4	10815.6	11764.9	12207.7	13320.2	15894.1	14954.9	14494.2
45°	13383.9	12123.8	11861.0	12129.4	12864.0	13080.9	13882.6	16465.5	15720.8	15275.8
47.5°	13721.6	12861.8	12957.9	13672.4	14114.1	13871.4	14303.0	16958.5	16291.0	15898.5
50°	14114.1	13816.6	14403.7	15414.4	15553.1	14587.0	14685.4	17542.3	16957.4	16642.1
52.5°	14543.4	14823.0	16004.8	16895.9	16851.2	15364.1	15070.0	18196.3	17870.9	17574.7
55°	15030.9	15635.8	17414.7	18282.4	18244.4	16231.8	15707.4	19004.7	19015.9	18747.6
57.5°	15754.3	16335.8	18371.9	19403.9	19467.7	17233.6	16787.5	19910.4	20051.3	19872.4
59°	16273.1	16789.7	18750.9	19872.4	20131.8	18008.5	17576.9	20435.9	20343.1	20179.8
60°	16657.7	17078.2	18938.7	20117.2	20517.5	18534.0	18159.4	20744.5	20377.8	20179.8
62.5°	17609.3	17706.6	19277.5	20394.6	20961.4	19701.3	19798.6	21270.0	20137.4	19814.2
65°	18053.2	18103.5	19273.1	19898.1	20532.1	20610.3	21285.7	21285.7	19550.4	19053.9
67.5°	17867.5	17625.0	18317.1	18252.2	18885.1	20070.3	21844.8	20505.2	18427.8	17785.9
70°	16358.2	15424.5	15117.0	15145.0	15629.1	17457.2	20737.8	18208.6	16303.3	15553.1
72.5°	13610.9	11371.3	10612.1	11478.6	11605.0	13416.3	17673.0	13712.7	12023.2	11319.9
75°	10947.5	8015.8	6781.4	7696.1	7910.7	9818.2	13671.3	8540.2	7022.9	6475.0
77.5°	7864.9	5753.9	4866.0	4802.3	5079.6	6226.8	9700.9	4298.1	3584.7	3345.5
80°	4468.0	3787.1	4077.8	3847.5	3987.2	3893.3	4608.9	1885.2	1544.1	1443.5
82.5°	2696.9	2238.5	2424.1	2018.2	2553.7	2224.0	1775.6	603.8	524.4	498.7
85°	1754.3	1223.2	637.4	427.1	879.9	1421.2	396.9	164.3	126.3	100.6
87.5°	604.9	312.0	31.3	13.4	93.9	265.0	14.5	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)