

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: P383060

Luminaire Tested: **GLEON-SA4A-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383060  
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-SA4A-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 12981.1 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 129  
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

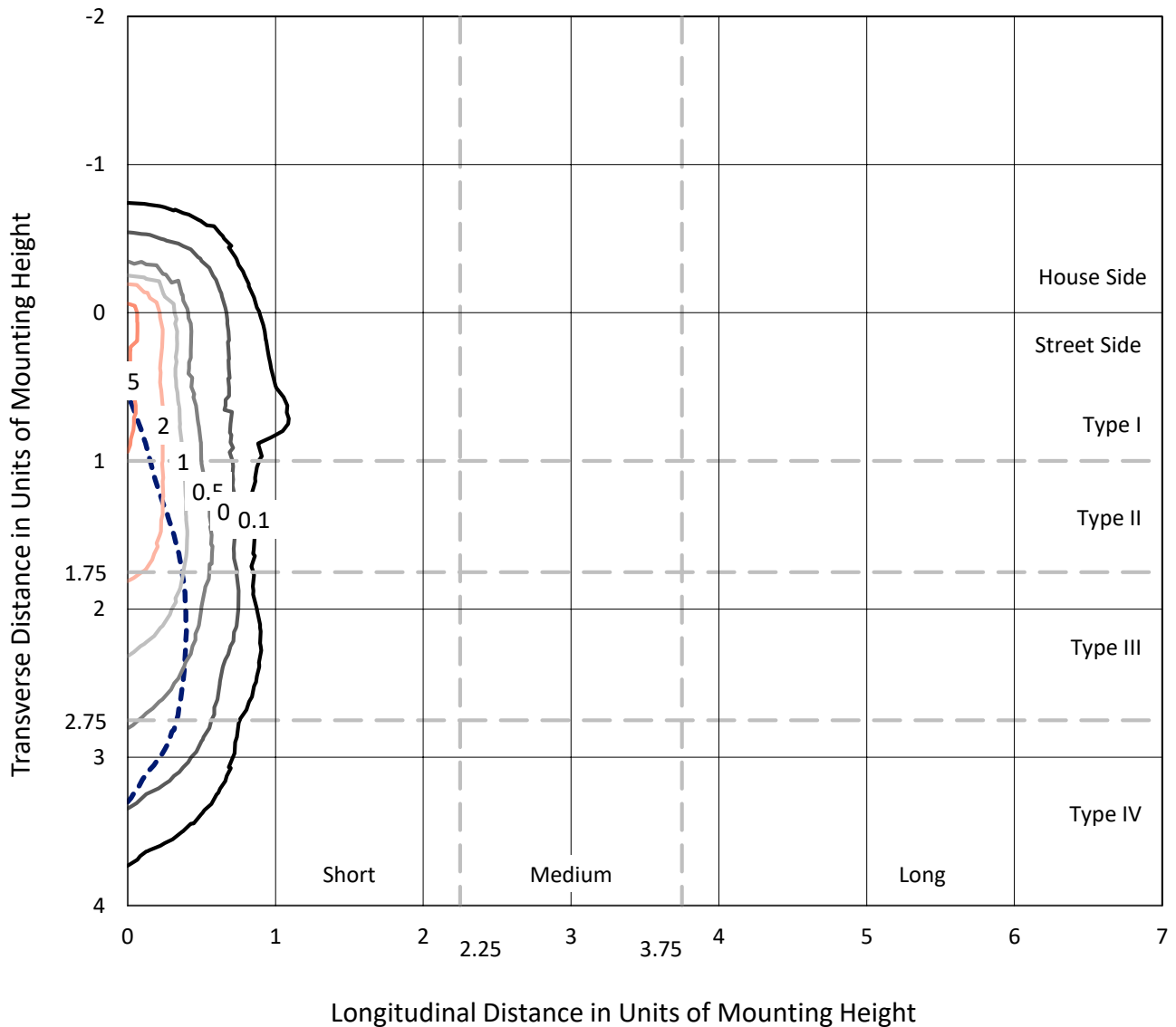




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### Iso-Footcandle Lines of Horizontal Illumination

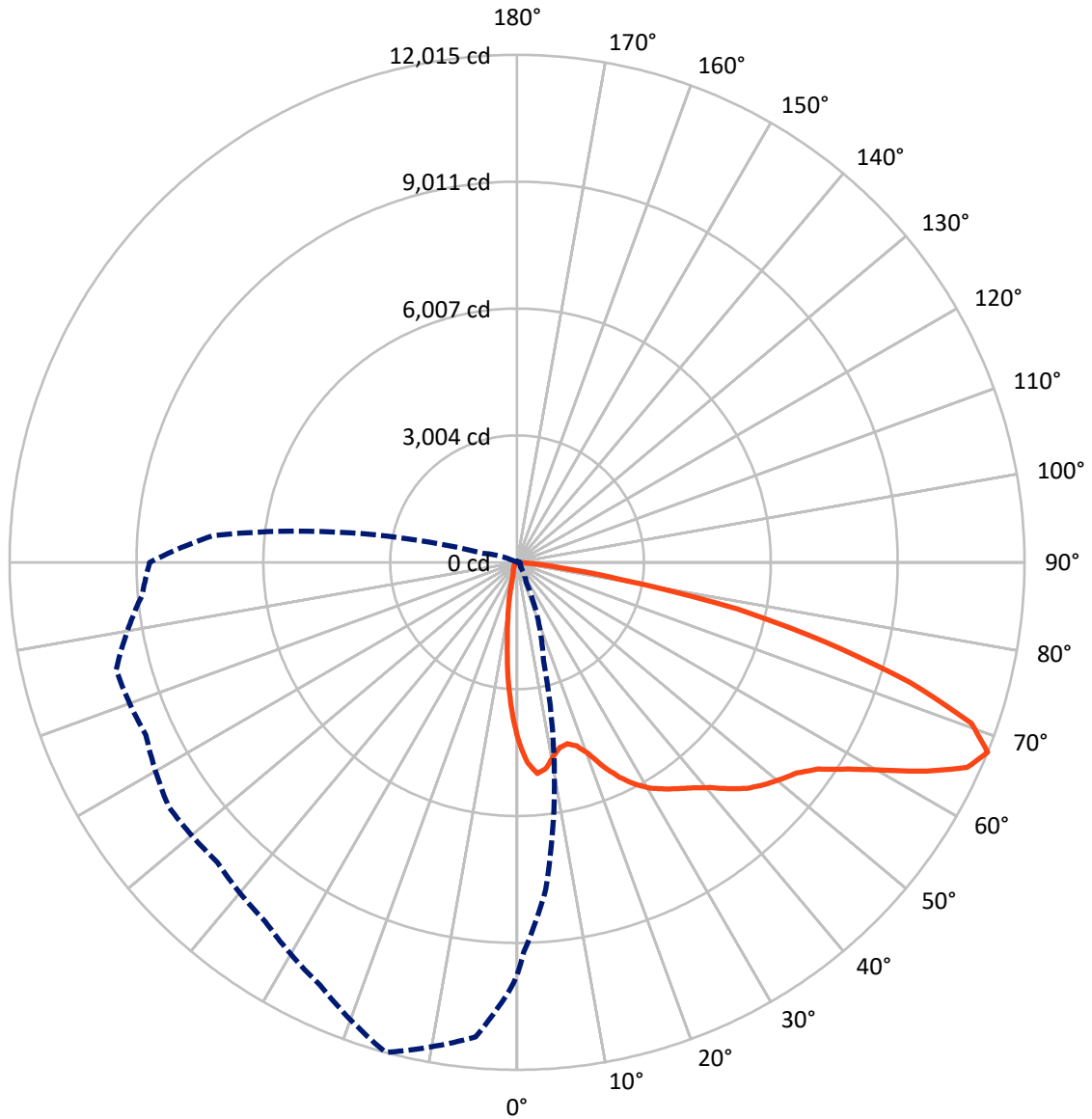
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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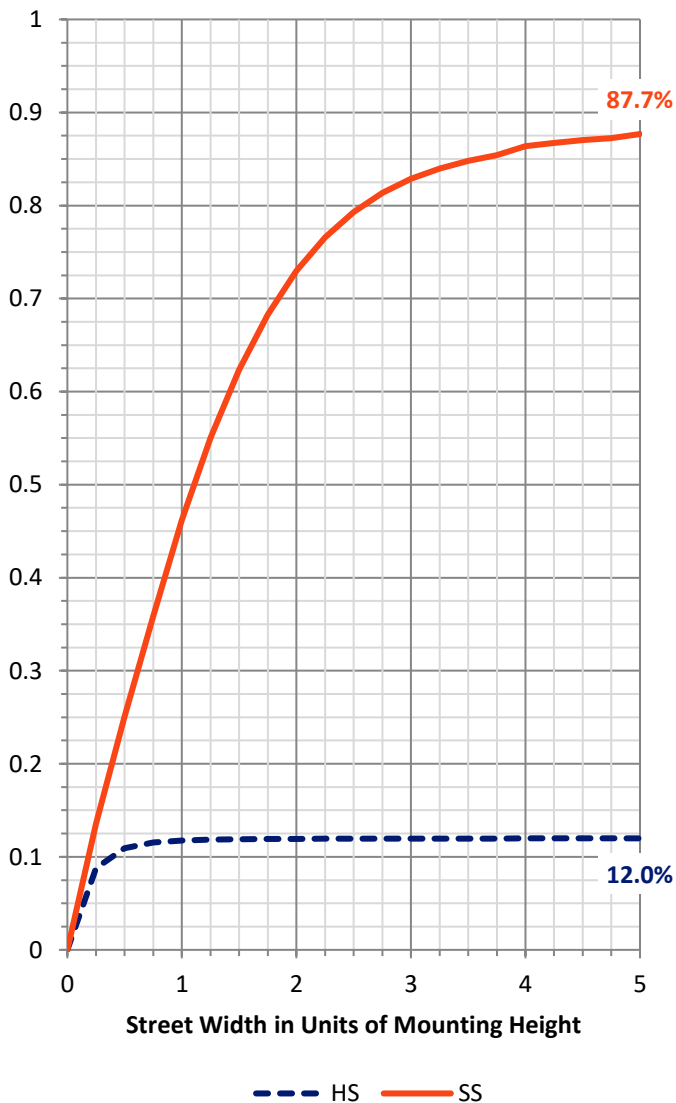
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1571.1	0.0	1571.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	11410.0	0.0	11410.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	12981.1	0.0	12981.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.5	2.5
10°-20°	646.0	5.0
20°-30°	917.3	7.1
30°-40°	1354.9	10.4
40°-50°	1954.1	15.1
50°-60°	2743.1	21.1
60°-70°	3197.7	24.6
70°-80°	1634.7	12.6
80°-90°	208.8	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°	12981.1	100.0
0°-180°	12981.1	100.0

**Coefficient of Utilization**

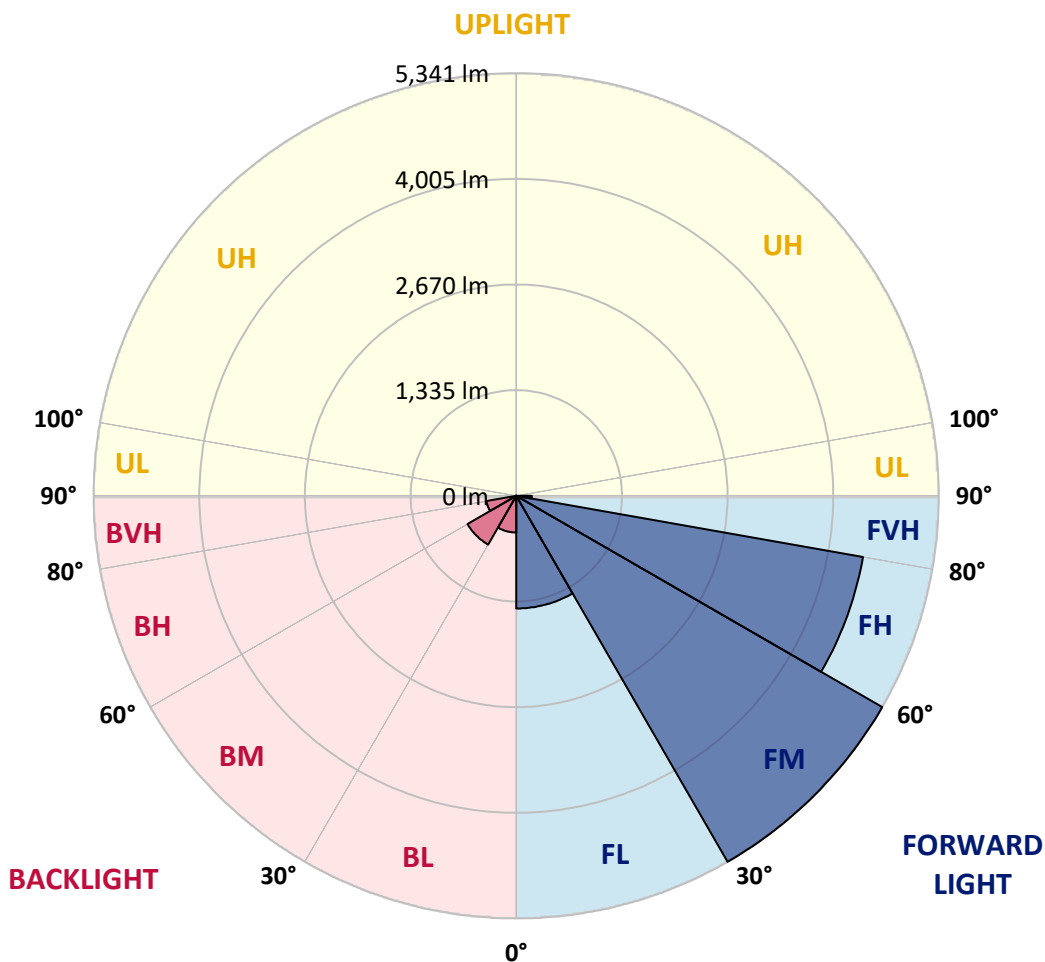


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.8	11.0			
FM (30°-60°)	5340.6	41.1			
FH (60°-80°)	4449.5	34.3			G2/5000
FVH (80°-90°)	196.1	1.5			G2/225
BL (0°-30°)	464.1	3.6	B1/500		
BM (30°-60°)	711.5	5.5	B1/1000		
BH (60°-80°)	382.9	2.9	B1/500		G1/500
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6
2.5°	4630.2	4594.5	4555.1	4426.6	4307.3	4170.7	4059.5	3982.0	3884.8	3758.7	3726.7
5°	4596.9	4558.8	4435.2	4149.2	3899.0	3655.4	3420.5	3282.8	3111.7	2938.4	2895.3
7.5°	4263.0	4223.1	4044.7	3653.0	3315.9	2964.2	2659.2	2470.4	2277.3	2118.6	2034.3
10°	3915.6	3871.9	3671.4	3196.0	2780.9	2463.0	2239.2	2058.9	1876.3	1706.6	1571.2
12.5°	3676.4	3619.2	3401.5	2862.7	2501.1	2285.3	2076.1	1860.3	1613.1	1431.0	1282.2
15°	3576.1	3510.9	3280.9	2734.2	2402.1	2148.7	1876.3	1611.2	1321.6	1113.1	976.5
17.5°	3653.5	3568.7	3322.1	2725.6	2277.9	1932.9	1588.5	1277.3	963.0	752.1	655.0
20°	3916.8	3805.5	3492.5	2723.1	2127.2	1676.4	1239.8	888.0	634.7	510.4	459.3
22.5°	4331.2	4184.3	3737.2	2742.8	1971.6	1407.1	895.4	603.3	476.6	412.0	381.9
25°	4831.8	4661.6	4089.6	2812.2	1835.1	1145.1	650.7	476.6	402.1	354.8	329.6
27.5°	5307.9	5169.5	4534.9	2912.5	1729.3	933.5	528.3	404.0	343.7	312.4	292.1
30°	5783.2	5609.2	4991.8	3031.8	1602.0	790.2	464.3	368.3	308.1	274.9	262.0
32.5°	6128.8	5984.4	5349.7	3117.9	1466.1	696.8	415.1	337.0	287.8	253.9	234.9
35°	6535.4	6371.8	5656.5	3137.0	1378.8	637.7	373.3	303.2	249.7	219.6	199.3
37.5°	6974.4	6770.9	6010.8	3095.2	1310.5	608.9	342.0	287.8	233.1	202.3	180.8
40°	7460.3	7230.3	6350.8	3034.9	1243.5	599.0	317.9	276.1	220.1	188.8	166.7
42.5°	7971.9	7700.7	6645.5	2971.5	1201.0	565.2	315.5	264.5	210.3	176.5	154.4
45°	8401.8	8126.9	6948.0	2950.7	1171.0	528.3	325.9	256.5	203.5	166.7	145.1
47.5°	8744.3	8484.2	7258.0	2997.3	1153.7	494.5	297.1	266.9	199.9	158.1	137.1
50°	9153.3	8858.7	7694.6	3137.0	1128.5	460.7	268.8	305.6	199.9	152.5	130.4
52.5°	9666.2	9374.7	8181.6	3353.5	1078.1	413.9	241.6	306.3	201.7	145.1	121.8
55°	10311.3	10099.7	8877.2	3590.8	997.5	345.0	209.1	263.3	194.3	131.6	113.7
57.5°	10929.9	10757.1	9511.2	3753.2	889.9	269.4	182.0	212.2	177.7	115.6	101.4
59°	11099.1	10910.3	9743.7	3760.6	809.3	234.9	168.5	175.2	174.0	108.2	94.1
60°	11099.1	10898.6	9810.7	3721.3	750.9	215.8	159.9	156.2	181.4	103.3	89.8
62.5°	10898.0	10616.3	9593.0	3454.9	612.5	183.9	139.6	129.1	162.9	92.9	79.4
65°	10479.8	10069.7	8851.4	2973.4	546.1	168.5	120.5	105.7	113.2	81.8	69.5
67.5°	9782.5	9226.5	7781.9	2402.1	519.6	164.2	104.0	89.8	85.5	70.1	60.9
70°	8554.3	7937.5	6483.7	1888.6	496.9	162.4	87.3	75.6	68.8	59.1	51.7
72.5°	6226.0	5582.8	4603.1	1476.6	483.4	166.0	70.1	63.3	56.5	46.1	40.0
75°	3561.3	3140.1	2587.2	975.3	412.0	158.6	54.1	52.9	40.6	33.2	27.7
77.5°	1840.0	1784.0	1550.4	374.5	197.4	69.5	35.7	30.7	23.9	20.3	16.6
80°	794.0	785.3	679.6	108.2	52.3	38.8	20.3	12.9	11.1	8.6	6.8
82.5°	274.2	274.2	241.6	36.2	23.4	19.1	2.4	0.0	0.0	0.0	0.0
85°	55.3	62.1	43.7	0.0	8.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6
2.5°	3688.0	3613.6	3608.7	3562.0	3503.6	3477.1	3461.7	3488.7	3522.0	3525.6	3575.5
5°	2862.7	2784.6	2817.2	2734.2	2750.8	2734.2	2707.2	2712.0	2726.8	2680.7	2737.9
7.5°	2010.4	1951.3	1988.9	1966.7	1996.2	2007.9	1991.3	1966.7	1894.1	1885.5	1935.3
10°	1515.3	1448.3	1408.3	1366.5	1375.7	1394.8	1388.7	1370.8	1324.7	1327.1	1375.1
12.5°	1217.6	1142.6	1063.3	960.6	935.4	949.5	935.4	924.9	880.7	884.3	926.8
15°	923.7	862.2	779.1	696.8	651.9	656.2	616.8	589.1	561.4	528.3	554.1
17.5°	623.6	586.0	561.4	536.9	483.4	471.1	421.2	367.8	346.8	331.4	342.5
20°	441.6	421.2	411.5	410.2	379.4	364.0	315.5	282.3	271.8	268.8	275.6
22.5°	369.0	354.3	340.1	332.1	316.7	298.8	262.0	245.4	238.0	234.3	239.2
25°	321.0	309.9	295.2	281.7	275.6	256.5	230.0	217.7	212.8	209.1	211.6
27.5°	285.3	275.6	258.3	249.7	244.7	228.1	205.4	195.5	191.2	190.0	189.4
30°	257.0	247.8	231.9	222.0	213.4	198.6	185.1	175.2	170.9	169.7	168.5
32.5°	228.8	221.4	210.9	201.1	191.9	178.3	166.7	158.6	151.9	150.6	150.1
35°	193.1	185.8	180.2	179.6	170.9	158.1	149.4	139.0	133.5	131.6	132.2
37.5°	171.6	161.7	149.4	153.7	151.3	142.1	130.4	119.9	114.4	113.2	113.2
40°	158.1	147.6	133.5	126.0	133.5	131.6	113.2	102.7	97.2	96.5	95.3
42.5°	145.1	134.7	118.7	106.4	110.1	115.6	97.8	87.9	82.4	81.1	79.4
45°	135.9	124.8	107.0	92.9	85.5	97.2	83.7	71.4	68.3	65.8	64.6
47.5°	127.3	116.8	96.5	80.6	68.3	70.1	67.1	58.4	54.8	52.3	51.7
50°	119.9	108.8	87.3	68.8	56.5	51.7	54.1	46.1	43.0	40.6	39.4
52.5°	111.3	100.9	77.5	59.6	47.3	40.6	41.2	36.2	33.2	31.4	30.7
55°	104.5	94.1	69.5	52.3	41.8	33.2	29.5	28.3	26.5	25.2	24.6
57.5°	95.3	85.5	61.5	44.2	35.7	27.0	22.7	22.7	22.2	20.9	20.3
59°	89.8	81.1	56.5	40.0	32.6	23.4	20.3	20.9	20.3	19.1	18.4
60°	85.5	77.5	52.9	36.9	30.7	21.5	18.4	19.7	19.1	17.8	17.2
62.5°	75.6	70.1	45.6	30.7	27.0	17.2	15.4	16.6	16.6	16.0	15.4
65°	66.4	60.3	38.8	25.8	25.2	14.7	12.3	14.7	15.4	14.2	12.9
67.5°	57.8	51.7	33.8	20.9	23.4	11.6	9.2	12.3	16.6	12.9	11.6
70°	49.2	43.0	26.5	16.6	24.6	8.0	7.4	11.1	19.7	14.2	11.1
72.5°	38.1	33.2	18.4	12.3	26.5	5.5	5.5	9.2	22.2	15.4	10.4
75°	26.5	21.5	11.1	7.4	21.5	3.7	3.7	8.6	20.9	14.2	9.9
77.5°	15.4	11.6	3.7	0.7	11.1	0.0	0.7	6.1	14.7	8.6	4.3
80°	5.5	2.4	0.0	0.0	6.8	0.0	0.0	0.0	1.2	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°	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6
2.5°	3588.4	3671.4	3745.8	3858.4	3991.8	4145.6	4277.8	4419.8	4553.3	4608.6	4646.7
5°	2749.6	2852.2	2972.2	3137.6	3357.8	3628.9	3883.0	4170.2	4478.9	4633.2	4778.4
7.5°	1944.0	2048.5	2197.3	2373.2	2639.4	2962.3	3294.4	3691.1	4109.2	4353.4	4593.8
10°	1397.9	1526.3	1665.3	1905.9	2176.4	2482.7	2824.5	3267.4	3733.5	4004.1	4293.8
12.5°	951.4	1097.7	1308.1	1577.4	1895.3	2195.5	2492.5	2915.0	3456.1	3724.3	4034.8
15°	570.7	651.9	874.5	1186.3	1576.2	1950.1	2275.4	2699.2	3276.0	3604.3	3927.2
17.5°	351.8	389.3	510.4	766.3	1175.8	1648.7	2094.6	2625.9	3301.8	3701.5	4047.2
20°	280.4	295.2	334.0	452.6	779.1	1316.6	1891.0	2611.2	3512.8	4004.7	4375.6
22.5°	243.5	257.7	283.5	329.0	490.2	985.8	1697.9	2624.7	3815.3	4459.2	4892.1
25°	214.6	226.9	251.5	289.1	359.1	694.3	1491.3	2685.0	4209.5	5023.1	5483.1
27.5°	191.9	202.3	225.1	259.5	308.1	484.6	1257.0	2758.1	4676.9	5600.0	6053.8
30°	170.9	180.2	200.5	232.4	267.5	372.7	999.9	2808.0	5144.8	6053.8	6461.6
32.5°	153.1	159.9	178.3	205.4	232.4	297.1	760.1	2800.0	5492.3	6431.4	6754.9
35°	134.7	141.4	157.4	180.8	202.3	245.4	597.8	2650.5	5794.9	6823.1	7090.7
37.5°	114.4	123.0	138.3	159.3	174.0	215.8	483.4	2470.4	6101.8	7270.8	7465.2
40°	97.2	105.7	119.3	142.1	151.3	204.8	371.4	2250.8	6446.8	7771.4	7876.0
42.5°	80.6	88.6	102.7	122.4	142.7	176.5	274.9	1999.9	6778.2	8199.5	8250.5
45°	65.2	73.2	87.9	107.6	152.5	146.3	212.8	1731.2	7045.8	8555.5	8572.2
47.5°	51.7	59.1	74.4	101.4	142.1	116.8	151.9	1520.2	7270.3	8833.5	8789.9
50°	40.0	46.1	62.1	116.3	124.3	96.5	115.0	1450.1	7471.4	9005.7	8892.6
52.5°	31.4	36.9	51.0	108.8	96.5	79.9	96.5	1515.9	7746.8	9148.4	8950.4
55°	25.2	30.7	40.0	62.1	65.8	67.6	82.4	1577.4	8222.2	9483.0	9291.6
57.5°	20.9	26.5	32.6	43.7	49.8	57.2	73.2	1584.2	8782.4	10038.8	9858.1
59°	19.1	23.9	29.5	38.8	43.7	52.3	68.8	1547.3	8979.8	10241.2	10150.8
60°	17.8	22.7	27.7	35.7	40.6	49.2	66.4	1512.2	8988.5	10233.8	10275.6
62.5°	15.4	20.3	24.6	30.1	34.5	41.8	59.6	1382.5	8624.5	9898.6	10200.6
65°	13.5	17.8	22.2	25.8	29.5	37.5	54.1	1145.7	8002.6	9358.0	9687.1
67.5°	12.3	15.4	20.3	22.7	26.5	33.2	48.0	816.7	7225.9	8697.0	8910.3
70°	11.1	14.7	18.4	20.9	23.9	28.9	41.2	469.2	6101.8	7729.1	7880.9
72.5°	10.4	14.2	16.6	19.7	21.5	25.8	37.5	220.8	4467.8	6191.5	6588.3
75°	9.2	12.9	15.4	18.4	20.3	23.4	32.0	105.7	2971.5	4480.7	4931.5
77.5°	5.5	10.4	14.2	16.6	17.8	20.3	26.5	60.9	1896.6	3101.3	3653.0
80°	0.0	3.7	10.4	14.2	15.4	17.2	20.3	48.0	1014.7	1771.7	2126.6
82.5°	0.0	0.0	7.4	11.1	10.4	11.6	15.4	30.1	457.6	1158.0	1305.0
85°	0.0	0.0	2.4	8.6	7.4	5.5	10.4	10.4	100.2	586.0	731.2
87.5°	0.0	0.0	0.0	0.7	3.7	2.4	4.3	1.2	0.7	43.7	177.1
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: P383060

CATALOG NUMBER: GLEON-SA4A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6	4228.6
2.5°	4780.2	4825.7	4902.5	4938.9	4921.0	4845.4	4755.0	4662.8	4608.6	4630.2
5°	5074.1	5308.5	5443.8	5488.7	5413.6	5243.9	5021.9	4729.2	4625.2	4596.9
7.5°	5074.1	5515.1	5794.3	5843.5	5676.2	5343.5	4927.1	4470.2	4318.4	4263.0
10°	4895.8	5496.0	5885.3	5963.4	5729.8	5232.2	4674.4	4152.9	3972.8	3915.6
12.5°	4694.7	5341.0	5751.3	5858.9	5667.0	5121.6	4499.2	3938.3	3726.1	3676.4
15°	4571.1	5150.4	5489.9	5568.0	5486.8	5056.9	4457.4	3873.7	3624.1	3576.1
17.5°	4615.4	5002.8	5125.2	5170.7	5225.4	5034.2	4571.1	4015.2	3699.1	3653.5
20°	4782.0	4847.2	4783.9	4841.1	4988.7	5056.3	4842.3	4357.1	3977.7	3916.8
22.5°	5064.9	4766.6	4589.0	4611.7	4791.3	5129.5	5256.8	4845.4	4407.5	4331.2
25°	5394.6	4831.8	4480.7	4460.4	4644.9	5226.1	5635.7	5376.7	4916.1	4831.8
27.5°	5809.0	4978.2	4458.6	4438.3	4593.8	5316.4	5950.5	5901.9	5451.8	5307.9
30°	6128.8	5122.1	4524.3	4477.7	4644.9	5379.2	6203.3	6347.8	5878.5	5783.2
32.5°	6358.3	5291.8	4631.4	4563.7	4788.8	5487.5	6398.2	6756.1	6273.4	6128.8
35°	6532.9	5476.4	4804.2	4692.9	4986.9	5651.6	6580.8	7190.9	6693.4	6535.4
37.5°	6696.4	5735.3	5074.1	4941.3	5297.4	5916.1	6773.9	7684.1	7163.2	6974.4
40°	6924.7	6028.6	5490.5	5372.4	5819.5	6276.5	7015.0	8198.3	7697.7	7460.3
42.5°	7152.8	6343.5	5916.7	5948.7	6470.8	6714.3	7326.2	8741.9	8225.3	7971.9
45°	7361.3	6668.2	6523.6	6671.3	7075.3	7194.6	7635.5	9056.1	8646.5	8401.8
47.5°	7547.0	7074.1	7127.0	7519.9	7762.9	7629.4	7866.7	9327.3	8960.2	8744.3
50°	7762.9	7599.3	7922.2	8478.0	8554.3	8023.0	8077.1	9648.3	9326.7	9153.3
52.5°	7999.0	8152.7	8802.8	9292.9	9268.3	8450.3	8288.6	10008.1	9829.1	9666.2
55°	8267.1	8599.9	9578.3	10055.5	10034.5	8927.6	8639.2	10452.7	10458.9	10311.3
57.5°	8665.0	8984.8	10104.7	10672.3	10707.3	9478.6	9233.2	10950.9	11028.4	10929.9
59°	8950.4	9234.5	10313.2	10929.9	11072.7	9904.8	9667.4	11240.0	11188.9	11099.1
60°	9162.0	9393.2	10416.5	11064.6	11284.8	10193.8	9987.9	11409.7	11207.9	11099.1
62.5°	9685.3	9738.8	10602.8	11217.1	11528.9	10835.9	10889.4	11698.7	11075.7	10898.0
65°	9929.4	9957.0	10600.4	10944.1	11292.8	11335.8	11707.3	11707.3	10752.9	10479.8
67.5°	9827.4	9693.9	10074.5	10038.8	10386.9	11038.8	12014.8	11278.1	10135.4	9782.5
70°	8997.1	8483.6	8314.4	8329.8	8596.1	9601.6	11406.0	10014.9	8967.0	8554.3
72.5°	7486.1	6254.3	5836.7	6313.4	6382.9	7379.1	9720.3	7542.1	6612.9	6226.0
75°	6021.2	4408.7	3729.8	4232.9	4351.0	5400.1	7519.3	4697.1	3862.7	3561.3
77.5°	4325.7	3164.7	2676.3	2641.3	2793.8	3424.8	5335.5	2364.0	1971.6	1840.0
80°	2457.4	2082.9	2242.8	2116.1	2193.0	2141.3	2534.9	1036.8	849.3	794.0
82.5°	1483.3	1231.2	1333.2	1110.0	1404.6	1223.2	976.5	332.1	288.4	274.2
85°	964.9	672.8	350.5	234.9	484.0	781.7	218.4	90.4	69.5	55.3
87.5°	332.7	171.6	17.2	7.4	51.7	145.8	8.0	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

(END OF REPORT)