

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: P383592

Luminaire Tested: **GLEON-SA8D-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383592  
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-SA8D-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA 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: 42940.6 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

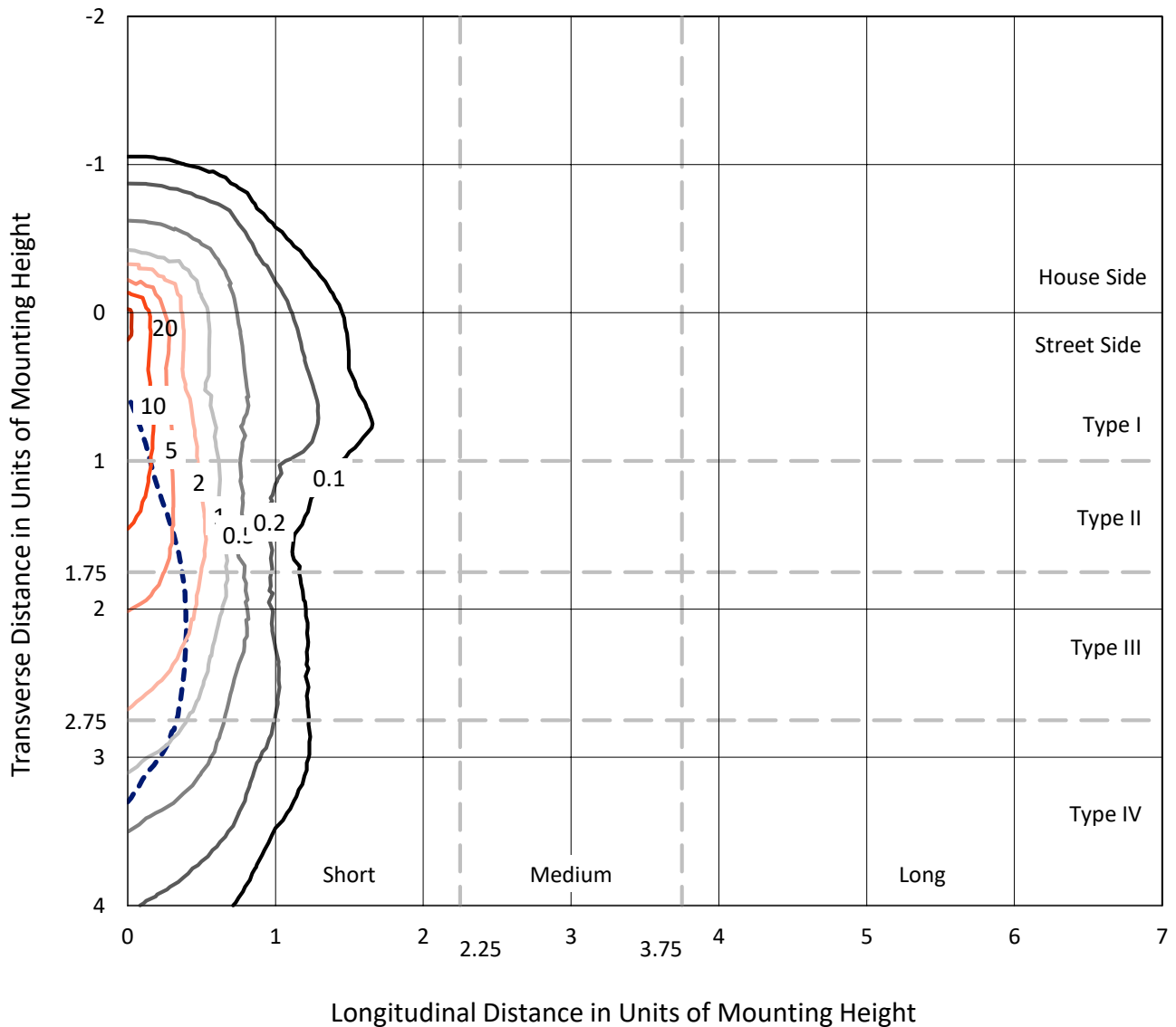
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

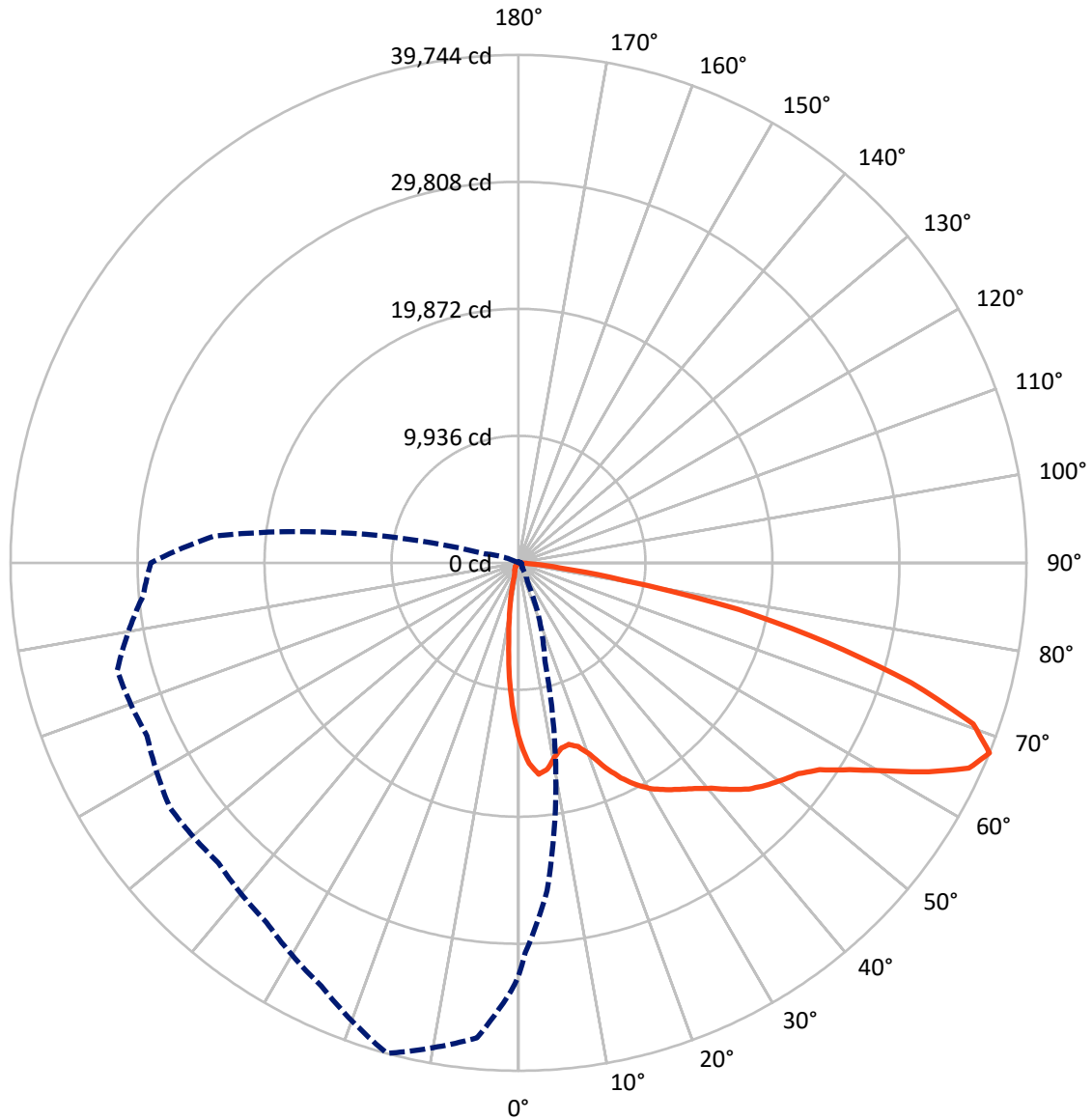
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 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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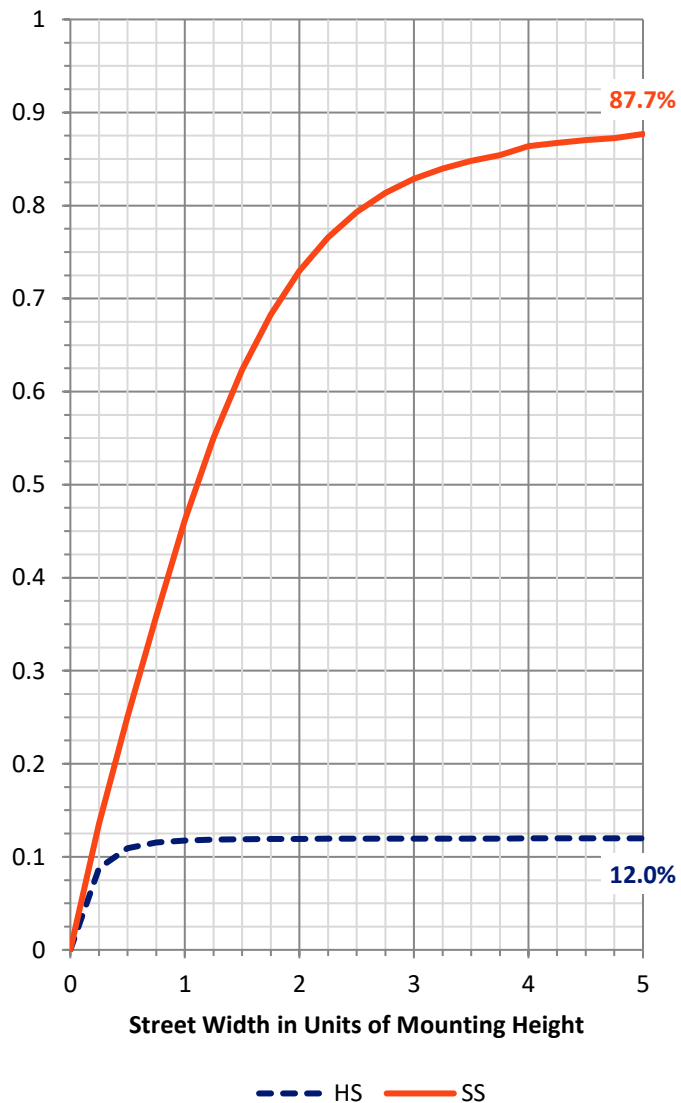
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5197.2	0.0	5197.2
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	37743.4	0.0	37743.4
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	42940.6	0.0	42940.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1073.6	2.5
10°-20°	2136.9	5.0
20°-30°	3034.4	7.1
30°-40°	4482.0	10.4
40°-50°	6463.9	15.1
50°-60°	9074.0	21.1
60°-70°	10577.7	24.6
70°-80°	5407.5	12.6
80°-90°	690.6	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°	42940.6	100.0
0°-180°	42940.6	100.0

**Coefficient of Utilization**

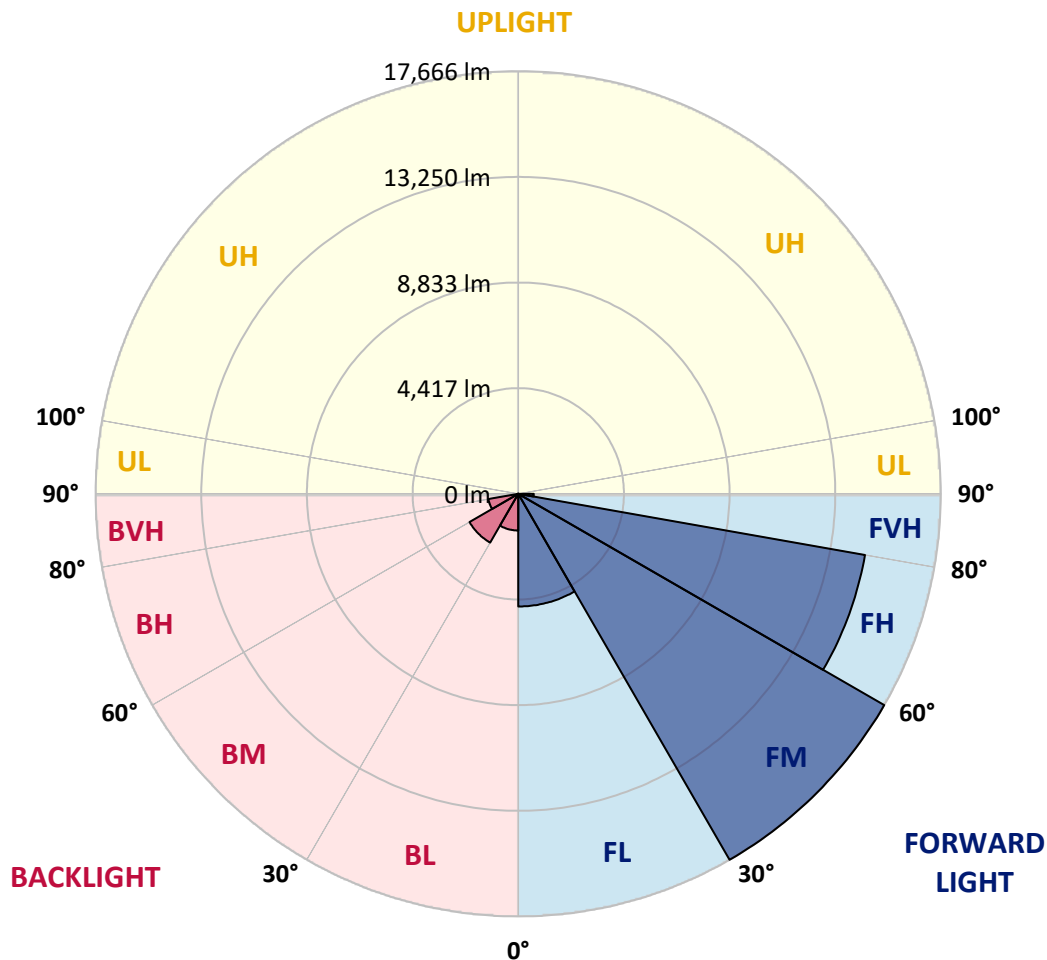


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4709.7	11.0			
FM (30°-60°)	17666.5	41.1			
FH (60°-80°)	14718.5	34.3			G5
FVH (80°-90°)	648.6	1.5			G4/750
BL (0°-30°)	1535.1	3.6	B3/2500		
BM (30°-60°)	2353.5	5.5	B2/2500		
BH (60°-80°)	1266.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	42.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8
2.5°	15316.2	15198.2	15068.1	14642.9	14248.2	13796.6	13428.4	13172.1	12850.7	12433.6	12327.8
5°	15206.4	15080.3	14671.3	13725.4	12897.5	12091.9	11314.8	10859.1	10293.5	9719.9	9577.4
7.5°	14101.8	13969.5	13379.5	12083.8	10969.0	9805.3	8796.3	8171.8	7533.0	7008.1	6729.5
10°	12952.3	12807.9	12144.8	10572.2	9199.1	8147.3	7406.9	6810.8	6206.6	5645.2	5197.7
12.5°	12161.1	11971.9	11251.7	9469.6	8273.4	7559.4	6867.7	6153.7	5336.0	4733.8	4241.5
15°	11829.4	11613.8	10853.0	9044.5	7946.0	7107.8	6206.6	5329.8	4371.7	3682.0	3230.4
17.5°	12085.8	11805.0	10989.3	9016.0	7535.0	6393.8	5254.6	4225.2	3185.7	2488.0	2166.5
20°	12956.4	12588.2	11552.8	9007.9	7036.6	5545.5	4101.1	2937.5	2099.4	1688.4	1519.6
22.5°	14327.6	13841.4	12362.4	9073.0	6522.0	4654.5	2961.9	1995.7	1576.6	1362.9	1263.3
25°	15983.5	15420.0	13528.1	9302.8	6070.3	3787.9	2152.2	1576.6	1330.4	1173.7	1090.4
27.5°	17558.0	17100.3	15000.9	9634.4	5720.4	3088.1	1747.5	1336.5	1137.1	1033.5	966.3
30°	19130.5	18554.8	16512.4	10029.0	5299.4	2614.1	1535.9	1218.6	1019.2	909.4	866.6
32.5°	20273.8	19795.8	17696.3	10313.9	4849.7	2304.8	1373.2	1114.8	952.0	840.2	777.1
35°	21618.5	21077.4	18711.4	10377.0	4560.9	2109.6	1234.9	1002.9	825.9	726.2	659.1
37.5°	23071.0	22397.6	19883.2	10238.6	4335.0	2013.9	1131.1	952.0	771.0	669.3	598.1
40°	24678.1	23917.2	21008.2	10039.3	4113.3	1981.4	1051.7	913.4	728.3	624.5	551.3
42.5°	26370.6	25473.4	21982.7	9829.7	3973.0	1869.5	1043.6	874.7	695.8	583.8	510.6
45°	27792.5	26883.3	22983.5	9760.6	3873.3	1747.5	1078.2	848.3	673.3	551.3	480.1
47.5°	28925.7	28065.2	24008.8	9915.2	3816.4	1635.6	982.6	882.9	661.1	522.8	453.7
50°	30278.5	29304.1	25453.1	10377.0	3732.9	1523.7	889.0	1011.0	661.1	504.5	431.3
52.5°	31975.1	31010.8	27064.3	11093.1	3566.2	1369.1	799.5	1013.1	667.3	480.1	402.8
55°	34109.1	33409.3	29365.1	11878.3	3299.6	1141.2	691.7	870.7	642.9	435.3	376.3
57.5°	36155.6	35583.9	31462.5	12415.3	2943.6	891.0	602.2	701.8	587.9	382.5	335.6
59°	36715.0	36090.5	32231.4	12439.7	2677.2	777.1	557.4	579.8	575.7	358.0	311.2
60°	36715.0	36051.8	32453.2	12309.6	2483.9	714.0	528.9	516.7	600.1	341.8	297.0
62.5°	36049.8	35118.0	31733.0	11428.7	2026.1	608.3	461.8	427.2	539.1	307.2	262.4
65°	34666.4	33309.6	29279.7	9835.8	1806.5	557.4	398.7	349.9	374.3	270.5	229.9
67.5°	32359.5	30520.6	25742.0	7946.0	1719.0	543.2	343.8	297.0	282.7	232.0	201.4
70°	28297.1	26256.7	21447.6	6247.3	1643.7	537.0	288.9	250.2	227.9	195.3	170.8
72.5°	20595.2	18467.4	15226.7	4884.4	1599.0	549.2	232.0	209.5	187.1	152.6	132.2
75°	11780.6	10387.1	8558.3	3226.4	1362.9	524.8	179.0	174.9	134.2	109.8	91.6
77.5°	6086.6	5901.5	5128.4	1238.9	653.0	229.9	118.0	101.7	79.4	67.2	55.0
80°	2626.3	2597.8	2247.9	358.0	172.9	128.2	67.2	42.8	36.6	28.5	22.4
82.5°	907.3	907.3	799.5	120.0	77.3	63.1	8.1	0.0	0.0	0.0	0.0
85°	183.0	205.5	144.4	0.0	26.5	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°	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8
2.5°	12199.6	11953.5	11937.2	11782.7	11589.4	11501.9	11451.0	11540.6	11650.4	11662.6	11827.4
5°	9469.6	9211.3	9319.1	9044.5	9099.5	9044.5	8955.0	8971.3	9020.1	8867.5	9056.7
7.5°	6650.1	6454.8	6579.0	6505.6	6603.4	6641.9	6587.1	6505.6	6265.6	6237.2	6402.0
10°	5012.5	4790.8	4658.6	4520.2	4550.7	4613.8	4593.5	4534.5	4381.9	4390.0	4548.7
12.5°	4027.9	3779.8	3517.3	3177.6	3094.1	3141.0	3094.1	3059.6	2913.1	2925.3	3065.7
15°	3055.5	2852.1	2577.5	2304.8	2156.3	2170.6	2040.4	1948.9	1857.3	1747.5	1832.9
17.5°	2062.8	1938.6	1857.3	1775.9	1599.0	1558.3	1393.5	1216.5	1147.4	1096.5	1133.1
20°	1460.7	1393.5	1361.0	1356.9	1255.2	1204.3	1043.6	933.8	899.1	889.0	911.3
22.5°	1220.6	1171.8	1124.9	1098.5	1047.6	988.7	866.6	811.7	787.3	775.0	791.3
25°	1061.9	1025.3	976.4	931.7	911.3	848.3	760.8	720.2	703.9	691.7	699.8
27.5°	943.9	911.3	854.4	825.9	809.6	754.7	679.5	646.9	632.7	628.6	626.6
30°	850.3	819.9	766.9	734.3	705.9	657.1	612.3	579.8	565.5	561.4	557.4
32.5°	756.8	732.4	697.7	665.2	634.7	589.9	551.3	524.8	502.5	498.4	496.3
35°	638.8	614.4	596.0	594.0	565.5	522.8	494.4	459.7	441.5	435.3	437.4
37.5°	567.6	535.0	494.4	508.5	500.4	470.0	431.3	396.7	378.4	374.3	374.3
40°	522.8	488.2	441.5	417.1	441.5	435.3	374.3	339.7	321.4	319.4	315.3
42.5°	480.1	445.5	392.6	351.9	364.1	382.5	323.4	290.9	272.6	268.6	262.4
45°	449.6	413.0	354.0	307.2	282.7	321.4	276.7	236.0	225.8	217.7	213.6
47.5°	421.1	386.5	319.4	266.5	225.8	232.0	221.7	193.3	181.1	172.9	170.8
50°	396.7	360.0	288.9	227.9	187.1	170.8	179.0	152.6	142.4	134.2	130.2
52.5°	368.2	333.6	256.4	197.3	156.7	134.2	136.3	120.0	109.8	103.8	101.7
55°	345.8	311.2	229.9	172.9	138.3	109.8	97.6	93.6	87.5	83.4	81.4
57.5°	315.3	282.7	203.4	146.4	118.0	89.5	75.3	75.3	73.2	69.1	67.2
59°	297.0	268.6	187.1	132.2	107.8	77.3	67.2	69.1	67.2	63.1	61.0
60°	282.7	256.4	174.9	122.0	101.7	71.2	61.0	65.1	63.1	59.0	56.9
62.5°	250.2	232.0	150.5	101.7	89.5	56.9	50.9	55.0	55.0	52.9	50.9
65°	219.7	199.4	128.2	85.4	83.4	48.8	40.7	48.8	50.9	46.8	42.8
67.5°	191.2	170.8	111.9	69.1	77.3	38.7	30.6	40.7	55.0	42.8	38.7
70°	162.7	142.4	87.5	55.0	81.4	26.5	24.4	36.6	65.1	46.8	36.6
72.5°	126.1	109.8	61.0	40.7	87.5	18.4	18.4	30.6	73.2	50.9	34.6
75°	87.5	71.2	36.6	24.4	71.2	12.2	12.2	28.5	69.1	46.8	32.5
77.5°	50.9	38.7	12.2	2.0	36.6	0.0	2.0	20.3	48.8	28.5	14.3
80°	18.4	8.1	0.0	0.0	22.4	0.0	0.0	0.0	4.1	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°	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8
2.5°	11870.2	12144.8	12390.9	12763.1	13204.6	13713.2	14150.6	14620.5	15061.9	15245.1	15371.2
5°	9095.4	9435.1	9831.7	10379.0	11107.3	12004.4	12844.6	13794.5	14815.8	15326.4	15806.5
7.5°	6430.4	6776.3	7268.6	7850.3	8731.2	9799.2	10897.7	12209.9	13593.1	14400.8	15196.2
10°	4623.9	5049.1	5508.9	6304.2	7199.4	8212.4	9343.5	10808.2	12350.2	13245.3	14203.5
12.5°	3147.0	3631.3	4326.9	5218.0	6269.7	7262.4	8245.0	9642.5	11432.8	12319.7	13347.0
15°	1887.8	2156.3	2892.7	3924.1	5213.9	6450.8	7526.9	8928.5	10836.7	11923.0	12991.0
17.5°	1163.6	1287.7	1688.4	2534.7	3889.6	5453.9	6928.9	8686.5	10922.1	12244.4	13387.7
20°	927.6	976.4	1104.6	1497.3	2577.5	4355.5	6255.4	8637.6	11619.9	13247.4	14474.0
22.5°	805.6	852.4	937.8	1088.3	1621.4	3261.0	5616.7	8682.4	12620.8	14750.7	16182.8
25°	709.9	750.6	832.1	956.1	1188.0	2296.7	4933.2	8881.7	13924.8	16616.1	18137.8
27.5°	634.7	669.3	744.6	858.5	1019.2	1603.0	4158.1	9123.9	15470.9	18524.3	20025.7
30°	565.5	596.0	663.2	769.0	884.9	1232.8	3307.7	9288.6	17018.9	20025.7	21374.4
32.5°	506.6	528.9	589.9	679.5	769.0	982.6	2514.4	9262.2	18168.3	21274.7	22344.8
35°	445.5	467.9	520.7	598.1	669.3	811.7	1977.3	8767.8	19169.2	22570.6	23455.4
37.5°	378.4	406.9	457.8	526.9	575.7	714.0	1599.0	8171.8	20184.3	24051.5	24694.3
40°	321.4	349.9	394.7	470.0	500.4	677.4	1228.7	7445.5	21325.5	25707.5	26053.2
42.5°	266.5	293.0	339.7	404.9	471.9	583.8	909.4	6615.6	22422.0	27123.3	27292.1
45°	215.7	242.1	290.9	356.0	504.5	484.1	703.9	5726.5	23306.9	28301.2	28356.0
47.5°	170.8	195.3	246.1	335.6	470.0	386.5	502.5	5028.8	24049.5	29220.6	29076.2
50°	132.2	152.6	205.5	384.4	410.9	319.4	380.4	4796.9	24714.7	29790.2	29415.9
52.5°	103.8	122.0	168.9	360.0	319.4	264.5	319.4	5014.5	25626.0	30262.2	29607.2
55°	83.4	101.7	132.2	205.5	217.7	223.8	272.6	5218.0	27198.6	31368.8	30736.2
57.5°	69.1	87.5	107.8	144.4	164.8	189.2	242.1	5240.3	29051.8	33207.9	32609.8
59°	63.1	79.4	97.6	128.2	144.4	172.9	227.9	5118.3	29704.8	33877.1	33578.1
60°	59.0	75.3	91.6	118.0	134.2	162.7	219.7	5002.3	29733.3	33852.7	33991.1
62.5°	50.9	67.2	81.4	99.7	113.9	138.3	197.3	4573.1	28529.0	32744.1	33742.9
65°	44.7	59.0	73.2	85.4	97.6	124.1	179.0	3789.9	26472.3	30955.9	32044.2
67.5°	40.7	50.9	67.2	75.3	87.5	109.8	158.6	2701.6	23903.0	28769.0	29474.9
70°	36.6	48.8	61.0	69.1	79.4	95.6	136.3	1552.1	20184.3	25567.1	26069.5
72.5°	34.6	46.8	55.0	65.1	71.2	85.4	124.1	730.3	14779.2	20481.3	21793.5
75°	30.6	42.8	50.9	61.0	67.2	77.3	105.8	349.9	9829.7	14821.9	16313.0
77.5°	18.4	34.6	46.8	55.0	59.0	67.2	87.5	201.4	6273.8	10258.9	12083.8
80°	0.0	12.2	34.6	46.8	50.9	56.9	67.2	158.6	3356.6	5860.8	7034.6
82.5°	0.0	0.0	24.4	36.6	34.6	38.7	50.9	99.7	1513.5	3830.6	4316.8
85°	0.0	0.0	8.1	28.5	24.4	18.4	34.6	34.6	331.6	1938.6	2418.8
87.5°	0.0	0.0	0.0	2.0	12.2	8.1	14.3	4.1	2.0	144.4	585.9
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: P383592

CATALOG NUMBER: GLEON-SA8D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8	13987.8
2.5°	15812.6	15963.1	16217.4	16337.5	16278.4	16028.2	15729.2	15424.0	15245.1	15316.2
5°	16785.0	17560.0	18007.6	18156.1	17907.9	17346.4	16612.1	15643.8	15299.9	15206.4
7.5°	16785.0	18243.6	19167.2	19329.9	18776.6	17676.0	16298.8	14787.3	14284.8	14101.8
10°	16195.0	18180.5	19468.2	19726.5	18953.5	17307.8	15462.7	13737.6	13141.5	12952.3
12.5°	15529.8	17667.8	19024.7	19380.8	18746.1	16941.6	14883.0	13027.6	12325.8	12161.1
15°	15121.0	17037.3	18160.1	18418.6	18150.0	16728.0	14744.6	12814.0	11988.1	11829.4
17.5°	15267.4	16549.0	16953.8	17104.3	17285.4	16652.7	15121.0	13281.9	12236.3	12085.8
20°	15818.7	16034.4	15824.8	16014.0	16502.2	16726.0	16018.1	14413.0	13157.8	12956.4
22.5°	16754.4	15767.8	15179.9	15255.2	15849.2	16968.0	17389.2	16028.2	14579.8	14327.6
25°	17844.8	15983.5	14821.9	14754.8	15365.0	17287.5	18642.3	17785.9	16262.2	15983.5
27.5°	19216.0	16467.6	14748.6	14681.6	15196.2	17586.5	19683.9	19523.2	18034.0	17558.0
30°	20273.8	16943.6	14966.3	14811.7	15365.0	17794.0	20519.9	20998.0	19445.9	19130.5
32.5°	21032.6	17505.1	15320.3	15096.5	15841.1	18152.0	21164.9	22348.8	20751.9	20273.8
35°	21610.3	18115.4	15891.9	15523.7	16496.1	18695.2	21769.1	23787.1	22141.3	21618.5
37.5°	22151.5	18971.9	16785.0	16345.6	17523.4	19570.0	22407.8	25418.6	23695.5	23071.0
40°	22906.2	19942.2	18162.2	17771.6	19250.5	20762.1	23205.2	27119.2	25463.3	24678.1
42.5°	23660.9	20983.8	19572.0	19677.7	21404.9	22210.4	24234.6	28917.6	27208.7	26370.6
45°	24350.6	22057.9	21579.9	22068.1	23404.6	23799.3	25257.8	29957.1	28602.2	27792.5
47.5°	24964.9	23400.5	23575.5	24875.4	25678.9	25237.5	26022.7	30854.2	29639.7	28925.7
50°	25678.9	25137.8	26205.8	28044.8	28297.1	26539.4	26718.5	31916.1	30852.1	30278.5
52.5°	26460.1	26968.7	29119.0	30740.2	30658.9	27953.3	27418.2	33106.2	32514.2	31975.1
55°	27347.1	28447.6	31684.2	33262.8	33193.6	29531.9	28577.8	34576.9	34597.3	34109.1
57.5°	28663.3	29721.1	33425.5	35303.2	35419.1	31354.6	30542.9	36224.7	36481.1	36155.6
59°	29607.2	30547.0	34115.1	36155.6	36627.5	32764.4	31979.2	37180.9	37012.0	36715.0
60°	30307.0	31071.9	34456.9	36601.1	37329.3	33720.5	33039.0	37742.3	37075.0	36715.0
62.5°	32038.2	32215.2	35073.3	37105.6	38137.0	35844.3	36021.3	38698.4	36637.7	36049.8
65°	32845.7	32937.3	35065.2	36202.4	37355.8	37498.2	38726.9	38726.9	35569.7	34666.4
67.5°	32508.0	32066.7	33325.8	33207.9	34359.3	36515.6	39744.1	37307.0	33527.2	32359.5
70°	29761.7	28063.2	27503.7	27554.5	28435.4	31761.5	37730.1	33128.5	29662.1	28297.1
72.5°	24763.5	20688.8	19307.5	20884.1	21114.0	24409.5	32154.1	24948.6	21874.8	20595.2
75°	19917.8	14583.8	12338.0	14002.1	14392.7	17863.2	24873.3	15537.9	12777.4	11780.6
77.5°	14309.2	10468.5	8853.2	8737.3	9241.8	11329.0	17649.6	7819.9	6522.0	6086.6
80°	8129.1	6890.2	7419.1	7000.0	7254.3	7083.4	8385.4	3429.9	2809.4	2626.3
82.5°	4906.7	4072.6	4410.3	3671.9	4646.4	4046.2	3230.4	1098.5	954.1	907.3
85°	3191.9	2225.6	1159.6	777.1	1601.0	2585.6	722.1	299.0	229.9	183.0
87.5°	1100.5	567.6	56.9	24.4	170.8	482.2	26.5	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)