

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: P383646

Luminaire Tested: **GLEON-SA9B-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35283.3 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

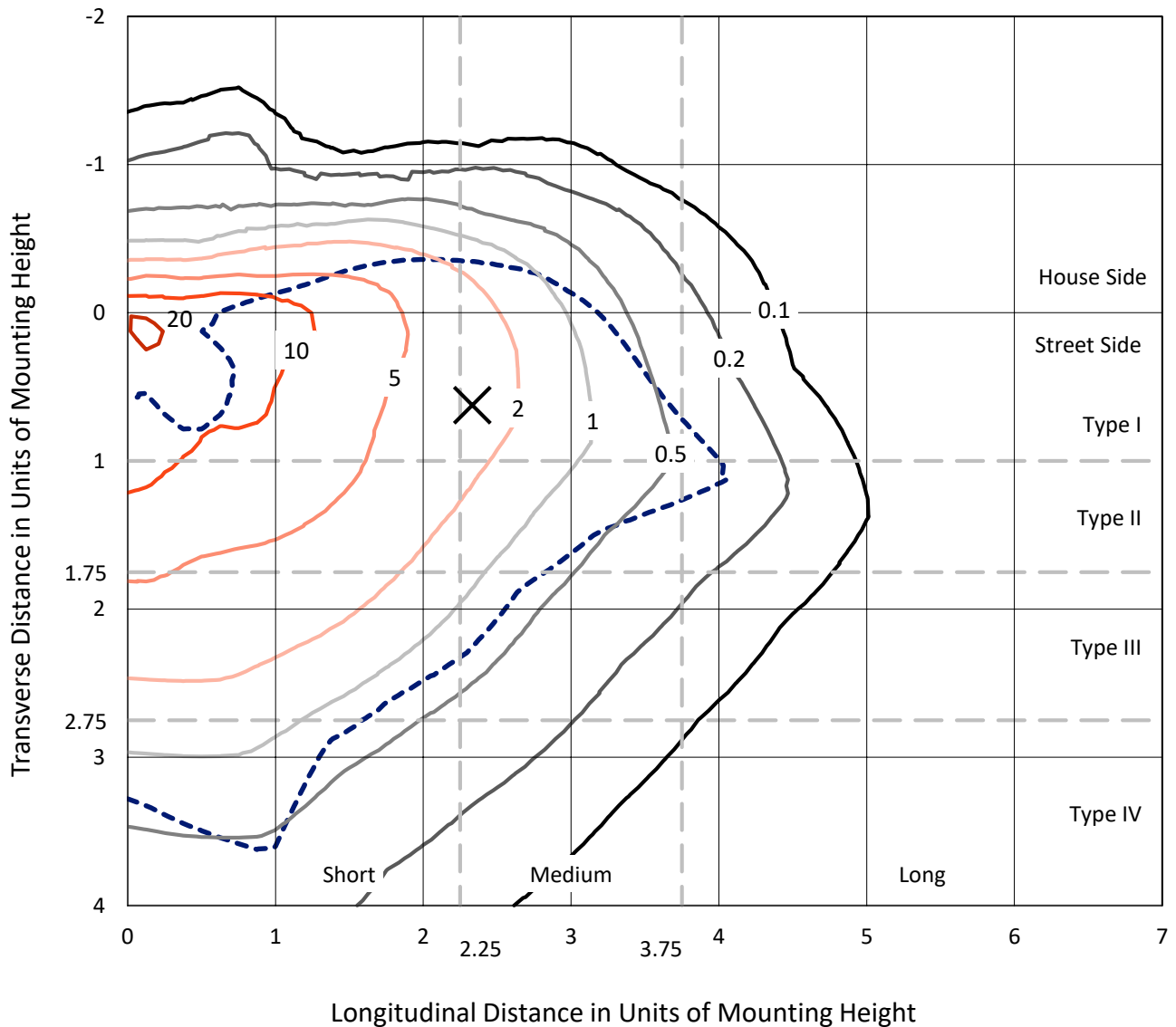
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

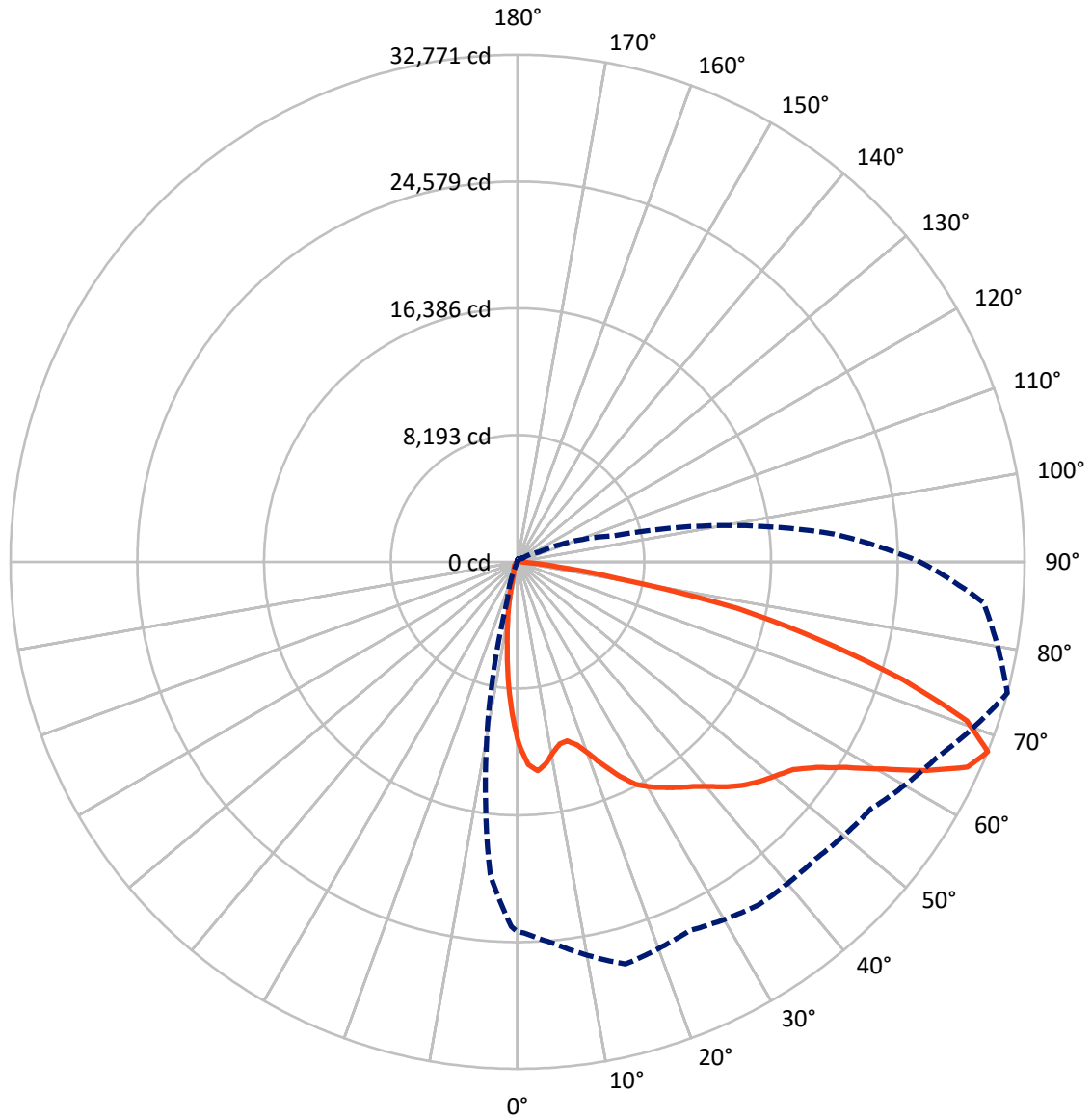
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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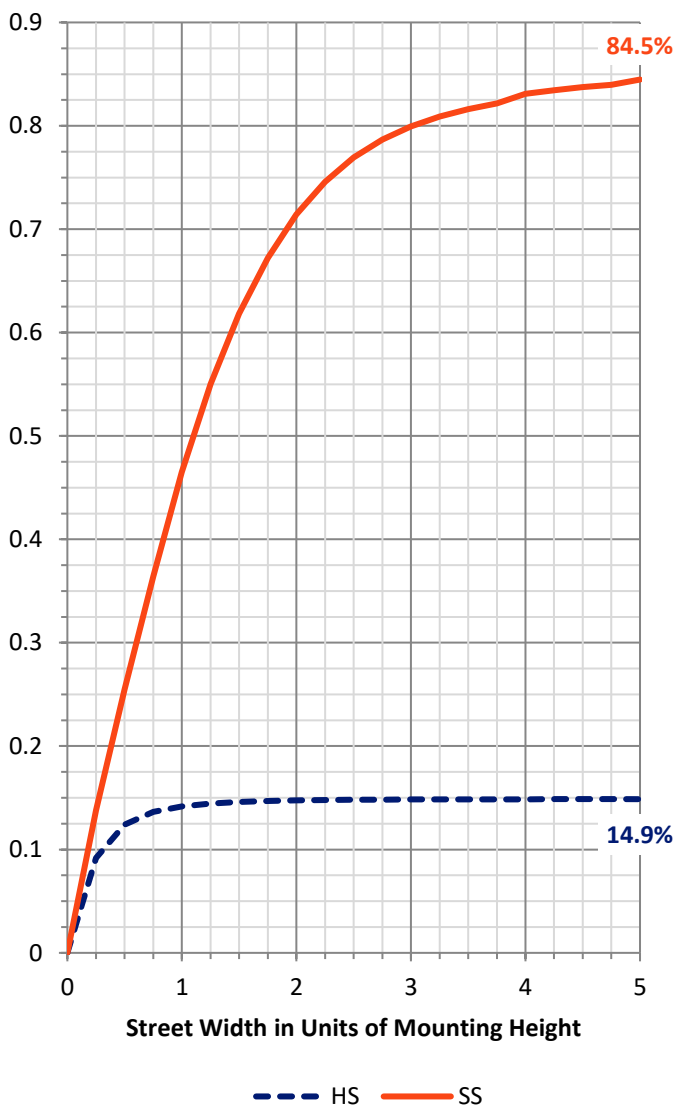
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5294.6	0.0	5294.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	29988.7	0.0	29988.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	35283.3	0.0	35283.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.9	2.5
10°-20°	1767.9	5.0
20°-30°	2501.1	7.1
30°-40°	3677.4	10.4
40°-50°	5285.6	15.0
50°-60°	7440.8	21.1
60°-70°	8690.2	24.6
70°-80°	4433.4	12.6
80°-90°	589.0	1.7
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°	35283.3	100.0
0°-180°	35283.3	100.0

Coefficient of Utilization



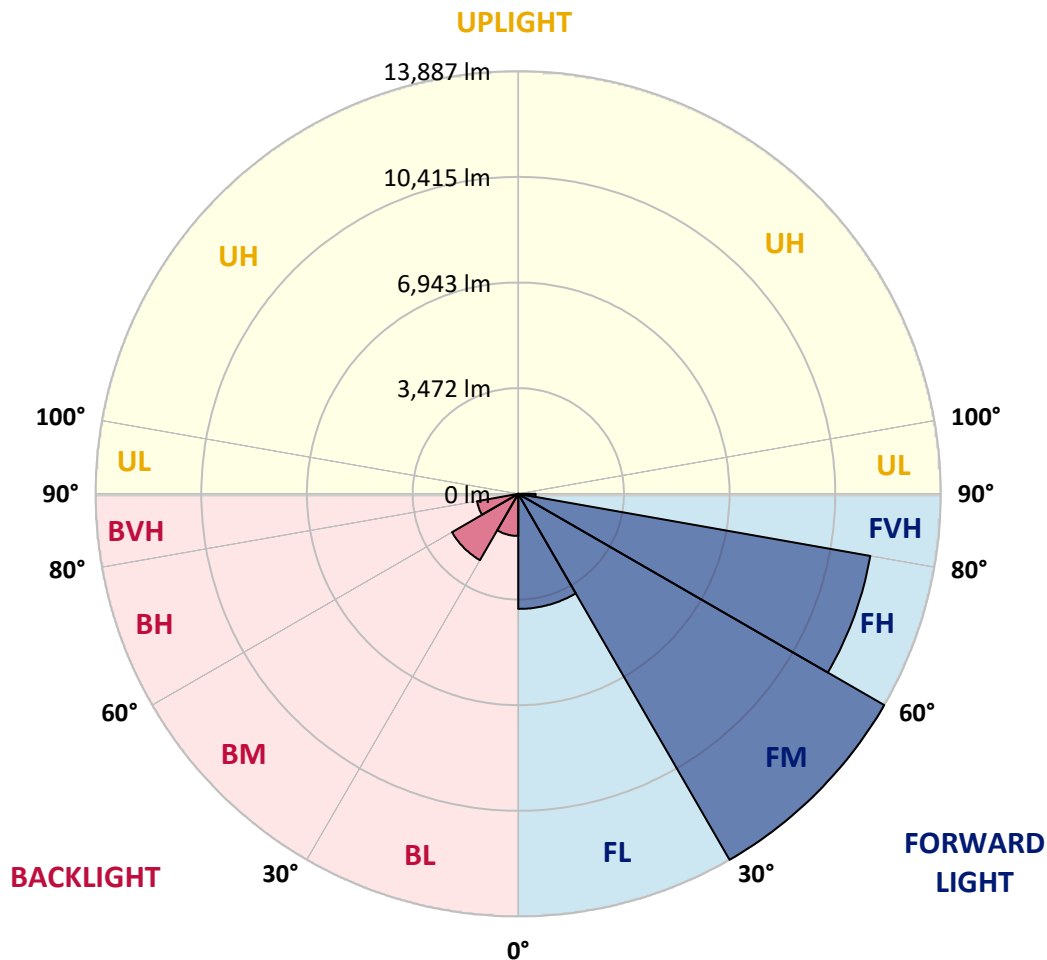
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.4	10.7			
FM (30°-60°)	13886.9	39.4			
FH (60°-80°)	11748.3	33.3			G4/12000
FVH (80°-90°)	571.1	1.6			G4/750
BL (0°-30°)	1384.6	3.9	B3/2500		
BM (30°-60°)	2516.9	7.1	B3/5000		
BH (60°-80°)	1375.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	17.9	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0
2.5°	12831.4	12851.4	12955.1	13195.8	13458.3	13478.3	13655.5	13473.3	13411.4	13117.2	12813.1
5°	12928.4	13005.2	13361.3	14068.2	14681.7	14879.0	15019.3	14661.6	14285.6	13566.9	12799.7
7.5°	12147.8	12276.5	12836.4	14163.5	15260.0	15744.7	15836.6	15276.7	14355.8	13172.4	12019.1
10°	11148.3	11295.4	11970.7	13602.0	15107.9	15938.6	16065.7	15331.9	14008.1	12533.9	11175.0
12.5°	10339.3	10511.5	11201.8	12970.1	14584.8	15504.0	15754.7	15146.3	13707.3	12081.0	10598.4
15°	9966.6	10163.8	10889.2	12562.3	14004.8	14728.5	14935.8	14673.4	13540.1	12009.1	10464.7
17.5°	10180.6	10394.5	11143.3	12597.4	13459.8	13769.1	13936.2	14043.2	13540.1	12442.0	10855.8
20°	11058.0	11288.7	12081.0	12953.4	13008.6	12893.3	13072.1	13448.2	13697.2	13264.3	11795.2
22.5°	12271.6	12542.3	13436.5	13563.5	12788.0	12351.8	12375.1	12965.2	13983.0	14307.3	13098.9
25°	13750.7	14081.6	14990.9	14472.8	12879.9	12029.2	12020.8	12567.3	14262.2	15351.9	14551.3
27.5°	15219.9	15584.2	16383.2	15582.6	13259.3	11970.7	11953.9	12447.0	14534.6	16281.2	16137.5
30°	16451.7	16806.1	17494.7	16386.5	13668.8	12107.7	12027.5	12575.7	14696.7	16884.6	17294.1
32.5°	17454.6	17738.7	18295.3	16939.7	14106.7	12373.5	12199.6	12920.0	14972.5	17394.4	18357.1
35°	18557.7	18856.9	19079.2	17466.2	14598.1	12756.2	12507.1	13466.5	15397.1	17912.5	19522.1
37.5°	19816.3	20113.8	20087.1	17947.7	15221.6	13389.7	13230.9	14332.3	16057.3	18425.6	20822.4
40°	21048.1	21352.3	21135.0	18474.1	15953.6	14434.3	14317.3	15632.8	16941.4	19082.5	22346.8
42.5°	22201.4	22530.6	22065.9	18972.2	16826.1	15751.4	15951.9	17307.5	18047.9	19891.5	23660.5
45°	23130.7	23466.6	22846.6	19457.0	17745.4	17349.2	17952.6	19162.8	19378.3	20575.1	24548.0
47.5°	23805.9	24123.4	23388.1	19941.6	18922.1	19303.2	20354.5	21108.3	20580.1	21168.4	25178.1
50°	24237.2	24484.5	23546.8	20548.4	20466.5	21582.9	22856.5	23224.3	21711.7	21703.3	25943.7
52.5°	24511.3	24623.2	23663.8	21181.8	22077.7	24065.0	25306.9	25422.2	22876.7	22291.7	26974.9
55°	25455.7	25545.8	24492.9	21949.0	23409.8	26239.5	27523.1	27416.2	24195.4	23443.2	28191.7
57.5°	27066.9	27162.2	26206.1	23052.1	24487.9	27583.3	29129.4	29321.6	25741.5	25061.1	29495.4
60°	27875.8	28053.0	27712.1	24449.4	25532.5	28442.4	30224.2	30837.6	27673.6	27193.9	30759.0
62.5°	27142.0	27399.4	27894.2	25998.8	26570.4	28915.4	30565.1	31380.8	29652.6	29679.3	31537.9
65°	25677.9	25883.5	26722.6	26847.9	27172.1	28856.9	29722.7	30621.9	30864.3	31962.4	31496.1
67.5°	23909.6	23986.4	24698.5	26914.7	26299.6	27098.6	27192.2	27857.5	29906.6	32771.4	30230.9
70°	21364.0	21405.8	22027.6	24676.7	22600.8	22776.3	22637.6	22773.0	25711.4	30800.8	27036.8
72.5°	17193.9	17299.1	18183.3	20493.2	16465.1	15958.6	17048.4	16988.3	19801.3	26022.2	20080.3
75°	12659.3	12841.5	14176.9	16506.8	11556.1	10453.0	11248.6	11460.8	14076.6	20128.8	12557.4
77.5°	8863.5	8998.8	10292.6	12134.4	8363.7	7474.6	7187.1	7439.4	9291.3	14561.3	6326.3
80°	5106.2	5156.3	5982.0	7006.5	5636.0	6448.3	5841.5	6015.4	5567.5	6478.4	2721.1
82.5°	3341.2	3349.5	3672.1	4170.2	3510.0	4078.2	3018.6	3859.3	3424.7	2602.4	885.8
85°	1805.2	1815.1	2129.4	2960.1	1987.3	1123.2	660.2	1355.5	2117.7	596.7	242.4
87.5°	198.9	182.2	641.8	1076.4	551.6	101.9	35.1	152.1	339.3	38.5	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°	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0
2.5°	12657.6	12518.9	12172.9	11806.9	11512.7	11236.9	10959.5	10620.1	10357.8	10304.2	10217.3
5°	12386.9	11947.3	11221.9	10493.1	9906.4	9166.1	8696.4	8330.4	7972.7	7950.9	7879.0
7.5°	11440.8	10862.5	9841.2	8833.4	8007.8	7302.4	6590.4	6114.0	5739.6	5607.5	5529.0
10°	10531.6	9881.4	8606.1	7456.2	6719.1	6095.7	5594.2	5096.1	4644.9	4333.9	4193.5
12.5°	9896.4	9177.7	7772.1	6780.9	6252.7	5661.1	5049.4	4427.6	3907.7	3533.4	3304.4
15°	9650.7	8883.5	7492.9	6513.5	5861.7	5112.9	4330.7	3620.3	3043.6	2704.4	2498.8
17.5°	9943.2	9050.7	7471.2	6187.5	5276.7	4345.7	3481.6	2642.5	2099.3	1841.9	1709.9
20°	10685.3	9582.2	7462.8	5788.1	4581.4	3436.4	2358.4	1738.3	1409.0	1265.2	1203.4
22.5°	11735.0	10260.8	7529.7	5393.7	3857.6	2455.3	1628.0	1277.0	1108.2	1031.2	996.2
25°	13085.4	11213.5	7718.6	5035.9	3177.3	1831.9	1268.6	1069.7	951.0	890.8	865.8
27.5°	14524.6	12309.9	8012.7	4725.1	2624.1	1460.9	1086.5	915.9	830.7	788.9	765.5
30°	15711.3	13580.2	8310.2	4379.1	2223.0	1273.6	994.5	835.7	737.1	710.3	688.6
32.5°	16749.2	14541.3	8520.9	4066.6	1960.5	1131.6	899.2	747.1	680.3	628.4	605.0
35°	17824.0	15341.9	8514.2	3847.6	1780.1	1024.6	819.0	668.6	588.4	528.2	509.7
37.5°	18987.3	16246.1	8368.7	3660.4	1701.5	939.4	773.8	626.7	546.5	486.4	463.0
40°	20349.5	17195.5	8220.0	3484.9	1679.8	870.8	742.1	593.4	508.1	449.6	426.2
42.5°	21676.6	18051.2	8089.7	3354.5	1586.1	869.1	713.7	568.2	478.1	421.2	394.4
45°	22737.9	18848.6	8064.6	3276.0	1487.6	899.2	698.7	551.6	454.6	397.8	372.7
47.5°	23620.4	19714.3	8225.0	3220.8	1394.0	820.7	735.5	539.8	432.9	377.7	349.3
50°	24670.1	20777.3	8602.7	3130.6	1295.3	738.8	842.4	543.2	414.5	357.7	327.6
52.5°	26134.2	22248.2	9157.7	2978.4	1160.0	663.5	829.0	546.5	394.4	335.9	305.8
55°	27775.5	24085.1	9754.3	2726.1	971.0	565.0	710.3	523.2	356.0	312.5	284.1
57.5°	29500.4	25751.4	10108.7	2425.2	772.2	488.0	568.2	476.4	314.2	280.8	262.4
60°	29771.2	26384.9	9946.6	2055.8	613.4	424.5	421.2	484.7	280.8	247.3	234.0
62.5°	29097.6	25589.3	9162.7	1726.5	513.1	372.7	346.0	422.8	254.0	220.6	207.3
65°	27802.3	23438.2	7892.4	1556.1	476.4	319.2	287.5	297.5	222.3	192.2	180.5
67.5°	26000.5	20566.7	6480.0	1459.2	471.4	274.2	245.7	225.6	192.2	167.1	157.2
70°	22316.7	17133.7	5169.7	1405.6	457.9	230.7	207.3	183.9	160.4	142.1	133.7
72.5°	16425.0	12141.1	4021.4	1347.2	461.3	183.9	180.5	152.1	128.7	110.3	106.9
75°	9490.2	6936.4	2637.5	1091.4	439.6	142.1	150.4	106.9	90.3	76.9	76.9
77.5°	5057.7	4230.3	1004.5	454.6	160.4	90.3	85.2	63.5	56.8	46.8	45.1
80°	2204.6	1862.0	302.6	127.1	88.6	48.4	31.8	28.4	25.1	20.0	18.4
82.5°	780.5	673.6	98.7	61.9	38.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	177.2	127.1	0.0	15.0	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°	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0
2.5°	10040.2	10003.4	9786.1	9794.5	9833.0	9888.1	9757.7	9817.9	9980.0	10135.4	10193.9
5°	7763.7	7772.1	7640.0	7722.0	7795.5	7845.6	7635.1	7638.3	7767.1	7942.6	8034.5
7.5°	5470.5	5457.2	5463.8	5659.4	5798.1	5697.8	5776.4	5504.0	5520.6	5646.0	5552.4
10°	4066.6	3882.7	3779.1	3926.2	4078.2	4023.1	3887.7	3799.1	3861.0	3999.7	3989.6
12.5°	3195.8	2931.7	2776.2	2670.9	2796.2	2692.6	2689.3	2612.4	2528.9	2543.9	2766.2
15°	2403.5	2211.3	2027.4	1858.6	1855.3	1820.2	1641.3	1440.7	1424.1	1434.1	1549.4
17.5°	1653.0	1587.8	1512.6	1367.2	1328.8	1181.7	1007.8	927.6	887.5	905.9	944.3
20°	1161.6	1136.6	1144.9	1066.3	1011.2	870.8	768.8	737.1	730.4	748.8	767.2
22.5°	962.8	917.6	912.6	877.5	822.4	720.4	665.2	646.9	638.5	655.2	668.6
25°	842.4	797.2	778.9	757.2	698.7	628.4	595.0	578.3	569.9	580.0	588.4
27.5°	742.1	700.3	683.6	668.6	611.7	561.6	534.9	519.8	513.1	516.4	524.8
30°	666.9	630.1	608.4	590.0	541.5	506.5	483.0	468.0	461.3	461.3	469.7
32.5°	588.4	568.2	548.2	524.8	479.7	456.3	432.9	416.2	409.5	411.2	417.9
35°	489.7	483.0	488.0	466.3	427.9	407.8	384.4	366.0	361.1	362.7	369.4
37.5°	434.6	404.5	422.8	411.2	389.5	362.7	332.7	315.9	307.5	312.5	315.9
40°	399.4	362.7	349.3	361.1	357.7	314.2	287.5	270.8	264.1	265.8	269.1
42.5°	369.4	325.9	295.9	294.2	314.2	274.2	245.7	230.7	222.3	222.3	225.6
45°	340.9	294.2	257.4	229.0	264.1	232.3	205.6	192.2	182.2	182.2	183.9
47.5°	319.2	267.4	223.9	187.2	198.9	190.5	168.8	155.5	145.4	145.4	147.1
50°	299.2	240.7	193.9	157.2	148.8	157.2	137.0	122.0	115.3	113.6	117.0
52.5°	277.4	214.0	165.4	133.7	117.0	118.7	106.9	97.0	88.6	88.6	91.9
55°	255.7	192.2	143.7	113.6	97.0	88.6	85.2	78.5	71.9	71.9	75.2
57.5°	234.0	168.8	122.0	93.6	76.9	70.2	70.2	65.2	60.2	60.2	63.5
60°	214.0	145.4	100.3	76.9	60.2	58.5	60.2	55.1	51.8	51.8	55.1
62.5°	190.5	123.7	81.9	63.5	48.4	46.8	51.8	48.4	45.1	45.1	48.4
65°	162.1	105.3	65.2	48.4	36.8	36.8	43.5	40.1	36.8	36.8	40.1
67.5°	137.0	88.6	50.1	35.1	26.7	28.4	36.8	33.4	31.8	31.8	35.1
70°	113.6	68.6	35.1	21.7	15.0	21.7	28.4	28.4	28.4	28.4	31.8
72.5°	85.2	46.8	20.0	8.4	6.7	15.0	23.4	26.7	25.1	25.1	30.1
75°	55.1	26.7	6.7	0.0	0.0	8.4	18.4	21.7	21.7	20.0	25.1
77.5°	31.8	8.4	0.0	0.0	0.0	0.0	11.7	10.1	8.4	6.7	11.7
80°	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P383646

CATALOG NUMBER: GLEON-SA9B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0
2.5°	10429.6	10626.8	10904.3	11198.5	11651.4	12010.8	12363.4	12666.0	12783.0	12831.4
5°	8255.1	8544.2	8950.4	9471.9	10289.2	11024.7	11770.1	12520.6	12846.5	12928.4
7.5°	5923.5	6292.9	6809.3	7462.8	8420.5	9373.3	10414.6	11516.1	12020.8	12147.8
10°	4384.1	4835.4	5427.1	6115.7	7029.9	8009.4	9144.3	10402.9	10979.5	11148.3
12.5°	3110.5	3720.6	4512.8	5350.2	6142.4	7016.6	8164.8	9552.1	10157.1	10339.3
15°	1826.9	2416.9	3354.5	4476.1	5490.6	6376.4	7543.1	9115.8	9782.7	9966.6
17.5°	1048.0	1342.2	2050.8	3301.0	4678.3	5905.1	7347.5	9224.6	10010.1	10180.6
20°	800.6	894.2	1181.7	2126.1	3728.9	5442.1	7347.5	9839.6	10807.3	11058.0
22.5°	700.3	768.8	885.8	1268.6	2744.4	4945.7	7432.7	10728.8	11994.0	12271.6
25°	621.8	683.6	783.9	954.4	1871.9	4355.7	7635.1	11820.2	13391.4	13750.7
27.5°	556.6	615.1	705.4	835.7	1280.3	3643.7	7907.4	13100.5	14932.4	15219.9
30°	498.1	553.2	635.1	727.1	987.8	2836.4	8139.8	14307.3	16142.5	16451.7
32.5°	443.0	493.1	566.6	635.1	809.0	2097.7	8164.8	15263.3	17147.0	17454.6
35°	391.2	436.2	503.1	556.6	670.2	1656.4	7775.4	16092.4	18151.6	18557.7
37.5°	340.9	384.4	443.0	483.0	590.0	1350.5	7180.4	17016.7	19440.2	19816.3
40°	294.2	332.7	392.7	419.6	558.3	1037.9	6533.6	17986.0	20703.8	21048.1
42.5°	250.7	287.5	346.0	397.8	489.7	775.5	5834.9	18895.3	21840.3	22201.4
45°	208.9	247.3	305.8	421.2	406.2	580.0	5087.7	19498.7	22737.9	23130.7
47.5°	168.8	212.3	292.5	401.1	324.3	426.2	4496.1	20070.3	23418.2	23805.9
50°	135.4	178.9	329.3	357.7	265.8	325.9	4248.7	20581.8	23864.4	24237.2
52.5°	110.3	150.4	310.9	274.2	222.3	269.1	4382.5	21410.8	24277.2	24511.3
55°	91.9	118.7	187.2	190.5	188.8	229.0	4547.9	22600.8	25345.3	25455.7
57.5°	80.2	95.3	130.4	147.1	158.8	203.9	4551.3	24309.0	26998.3	27066.9
60°	68.6	83.6	108.6	118.7	137.0	182.2	4385.8	24905.7	27648.5	27875.8
62.5°	60.2	73.5	90.3	98.7	115.3	163.8	3998.0	24041.6	26756.0	27142.0
65°	53.5	66.9	75.2	83.6	101.9	147.1	3359.5	22313.4	25275.1	25677.9
67.5°	46.8	58.5	66.9	75.2	91.9	130.4	2473.7	20306.0	23575.2	23909.6
70°	41.8	51.8	60.2	66.9	80.2	110.3	1500.9	17230.6	21225.3	21364.0
72.5°	40.1	46.8	55.1	60.2	70.2	97.0	760.5	12662.6	16968.1	17193.9
75°	35.1	41.8	50.1	53.5	61.9	83.6	309.2	8317.0	12296.6	12659.3
77.5°	28.4	38.5	45.1	48.4	53.5	68.6	157.2	5315.1	8629.5	8863.5
80°	10.1	28.4	38.5	40.1	45.1	50.1	103.6	2910.0	5005.9	5106.2
82.5°	0.0	18.4	30.1	28.4	31.8	38.5	66.9	1383.9	3304.4	3341.2
85°	0.0	8.4	23.4	18.4	13.4	26.7	23.4	302.6	1733.2	1805.2
87.5°	0.0	0.0	1.7	8.4	6.7	10.1	3.4	1.7	157.2	198.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)