

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: P383562

Luminaire Tested: **GLEON-SA8C-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383562
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-SA8C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 39149.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

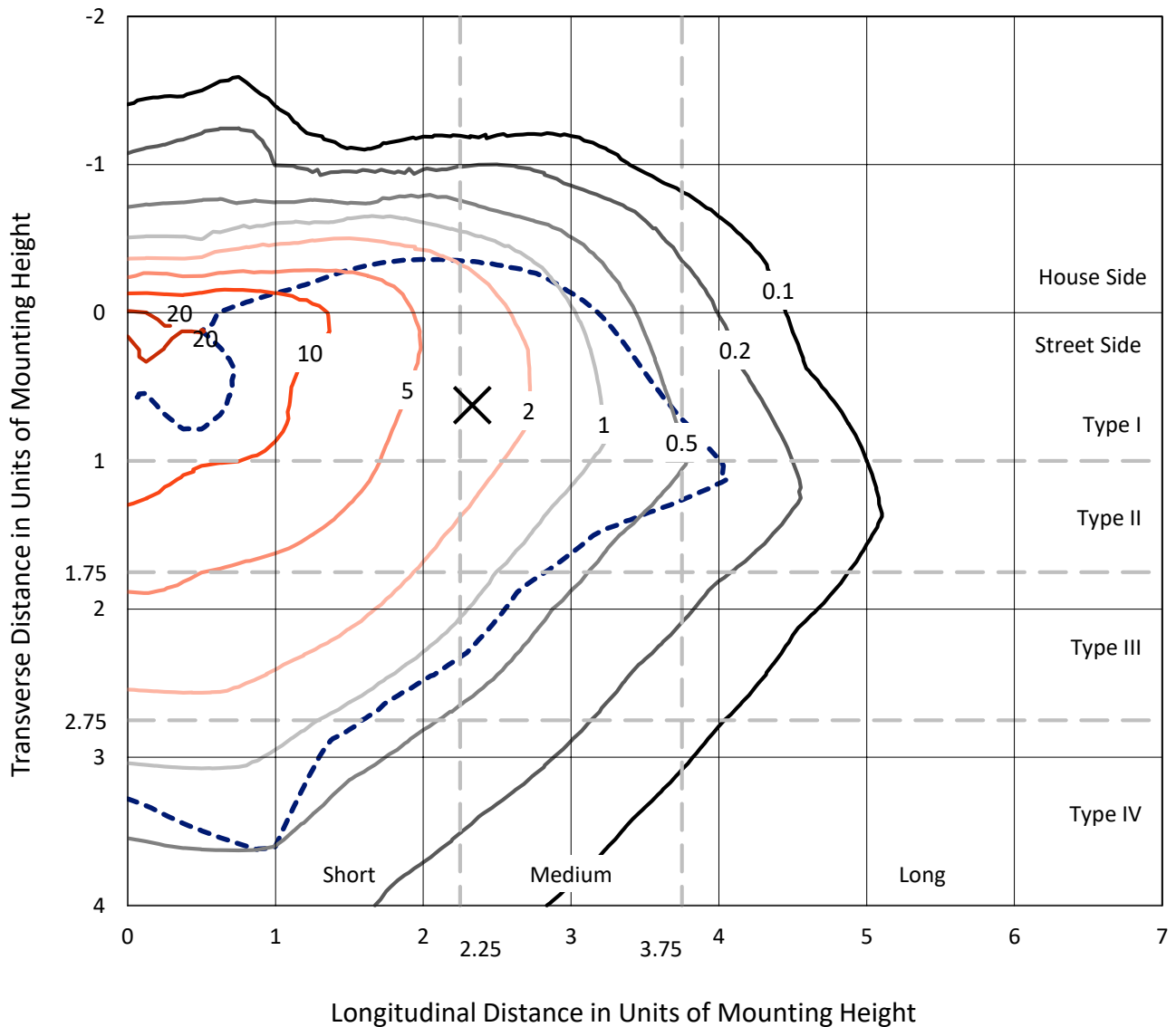
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

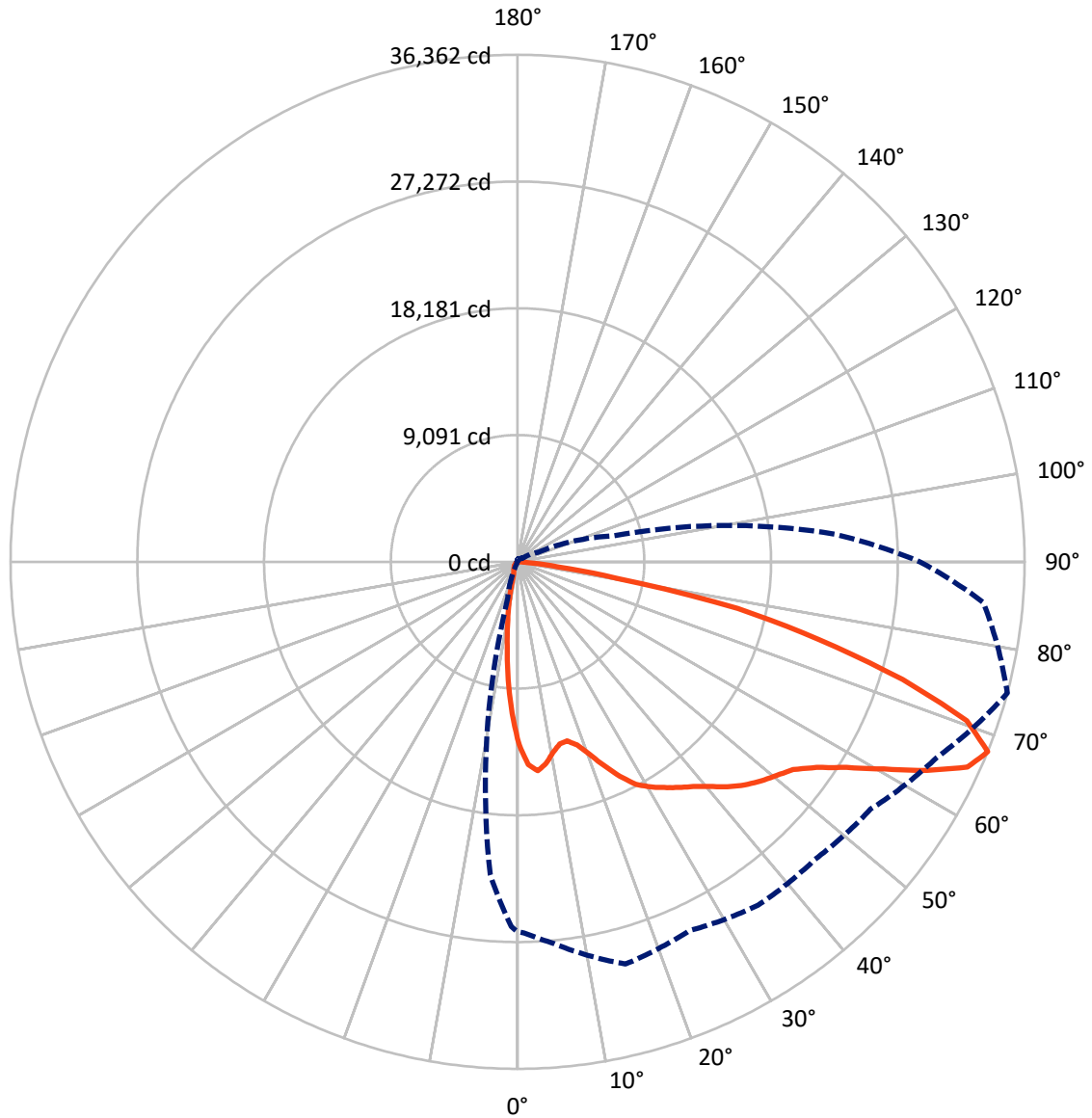
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.2 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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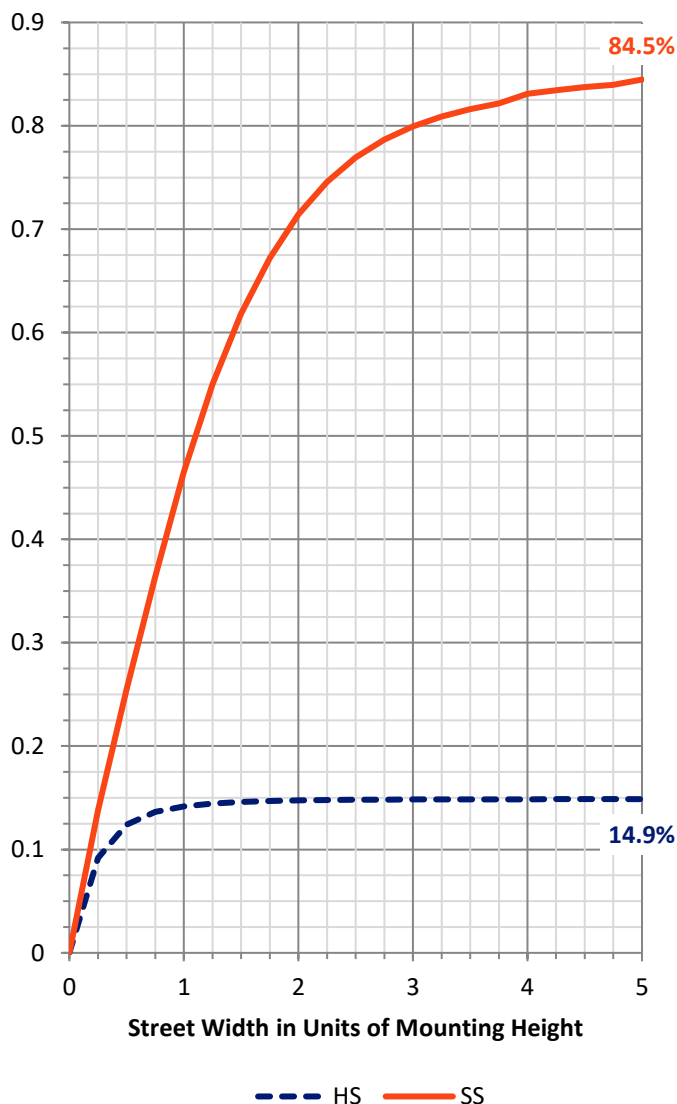
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5874.8	0.0	5874.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	33274.5	0.0	33274.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	39149.2	0.0	39149.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.3	2.5
10°-20°	1961.7	5.0
20°-30°	2775.2	7.1
30°-40°	4080.3	10.4
40°-50°	5864.8	15.0
50°-60°	8256.0	21.1
60°-70°	9642.3	24.6
70°-80°	4919.2	12.6
80°-90°	653.5	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°	39149.2	100.0
0°-180°	39149.2	100.0

Coefficient of Utilization

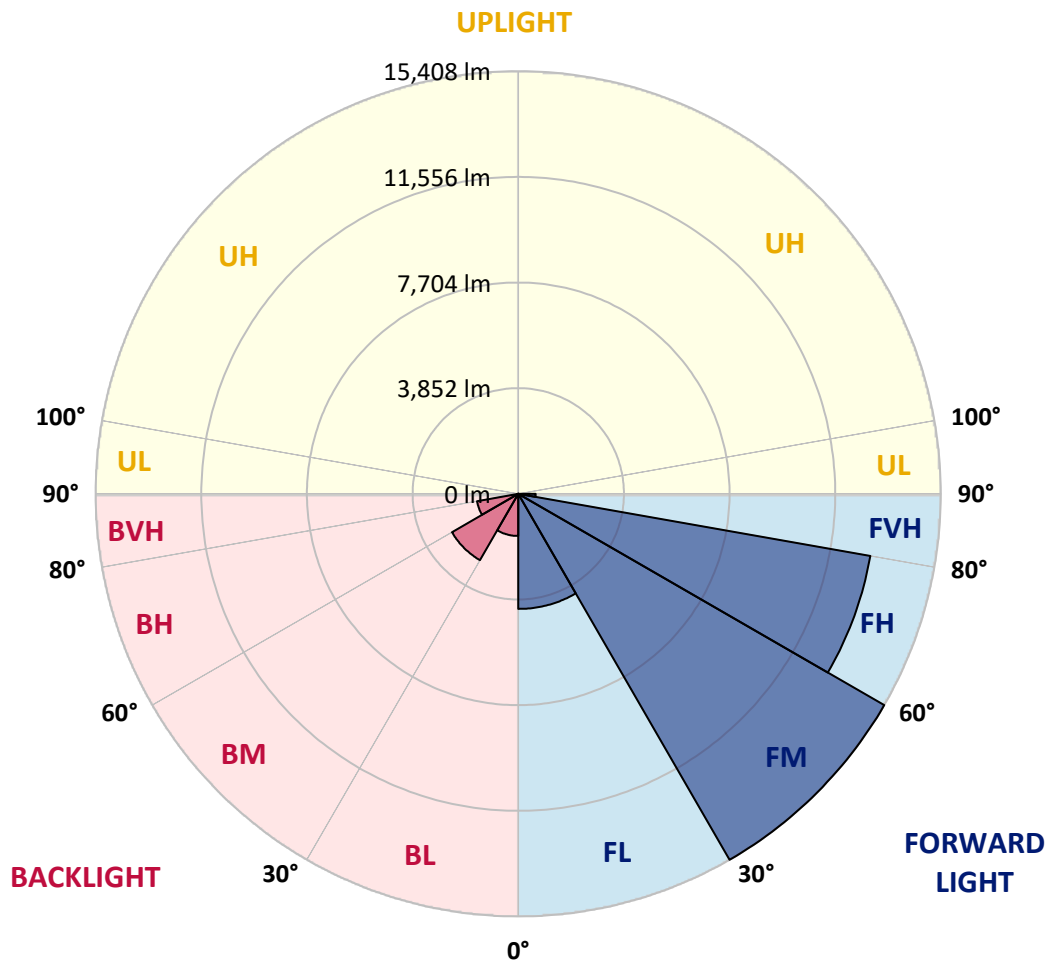


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4196.8	10.7			
FM (30°-60°)	15408.4	39.4			
FH (60°-80°)	13035.6	33.3			G5
FVH (80°-90°)	633.7	1.6			G4/750
BL (0°-30°)	1536.3	3.9	B3/2500		
BM (30°-60°)	2792.7	7.1	B3/5000		
BH (60°-80°)	1525.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	19.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9
2.5°	14237.3	14259.6	14374.6	14641.6	14932.8	14955.1	15151.6	14949.5	14880.9	14554.5	14216.9
5°	14344.9	14430.2	14825.2	15609.8	16290.3	16509.2	16664.9	16268.1	15850.8	15053.3	14202.1
7.5°	13478.8	13621.6	14242.9	15715.4	16932.0	17469.8	17571.8	16950.5	15928.7	14615.7	13336.0
10°	12369.8	12533.0	13282.3	15092.3	16763.2	17685.0	17825.9	17011.7	15543.0	13907.3	12399.5
12.5°	11472.2	11663.3	12429.2	14391.3	16182.8	17202.8	17481.0	16805.9	15209.1	13404.7	11759.7
15°	11058.7	11277.5	12082.4	13938.7	15539.2	16342.2	16572.2	16281.0	15023.7	13325.0	11611.3
17.5°	11296.0	11533.4	12364.2	13977.7	14934.7	15277.8	15463.2	15581.9	15023.7	13805.3	12045.3
20°	12269.7	12525.6	13404.7	14372.8	14434.0	14306.0	14504.4	14921.7	15198.0	14717.7	13087.5
22.5°	13616.1	13916.5	14908.7	15049.6	14189.1	13705.1	13731.0	14385.7	15515.1	15874.9	14534.1
25°	15257.4	15624.6	16633.4	16058.5	14291.2	13347.1	13337.9	13944.3	15824.9	17034.0	16145.7
27.5°	16887.5	17291.8	18178.2	17289.9	14712.1	13282.3	13263.7	13810.8	16127.1	18065.1	17905.6
30°	18254.3	18647.4	19411.5	18181.9	15166.4	13434.3	13345.4	13953.6	16307.0	18734.6	19188.9
32.5°	19367.1	19682.3	20299.8	18795.8	15652.3	13729.2	13536.3	14335.7	16613.0	19300.3	20368.5
35°	20591.0	20923.0	21169.6	19380.0	16197.6	14153.9	13877.5	14942.1	17084.1	19875.1	21661.1
37.5°	21987.5	22317.6	22287.9	19914.2	16889.3	14856.8	14680.6	15902.7	17816.6	20444.5	23104.0
40°	23354.3	23691.9	23450.7	20498.3	17701.6	16015.8	15886.1	17345.6	18797.7	21173.3	24795.3
42.5°	24633.9	24999.3	24483.7	21050.9	18669.7	17477.2	17699.8	19203.9	20025.4	22071.0	26253.0
45°	25665.1	26037.8	25349.8	21588.8	19689.7	19250.2	19919.7	21262.4	21501.6	22829.4	27237.7
47.5°	26414.3	26766.6	25950.7	22126.6	20995.3	21418.1	22584.6	23421.1	22835.0	23487.9	27936.8
50°	26892.8	27167.3	26126.8	22799.8	22708.9	23947.8	25360.9	25768.9	24090.6	24081.3	28786.2
52.5°	27196.9	27321.2	26256.7	23502.7	24496.7	26701.8	28079.6	28207.6	25383.2	24734.1	29930.5
55°	28244.7	28344.9	27176.5	24353.9	25974.8	29114.5	30538.8	30420.2	26846.4	26011.9	31280.6
57.5°	30032.5	30138.3	29077.4	25577.9	27170.9	30605.5	32321.1	32534.3	28561.9	27807.1	32727.1
60°	30930.1	31126.7	30748.3	27128.3	28330.0	31558.8	33535.7	34216.4	30705.7	30173.5	34129.2
62.5°	30116.0	30401.6	30950.5	28847.4	29481.7	32083.6	33914.1	34819.1	32901.5	32931.1	34993.4
65°	28491.4	28719.5	29650.5	29789.6	30149.4	32018.7	32979.4	33977.2	34246.0	35464.5	34947.1
67.5°	26529.3	26614.6	27404.6	29863.7	29181.3	30067.7	30171.6	30909.7	33183.4	36362.1	33543.2
70°	23704.8	23751.2	24441.0	27380.5	25077.2	25271.9	25118.0	25268.2	28528.5	34175.6	29999.1
72.5°	19077.7	19194.5	20175.6	22738.6	18269.1	17707.2	18916.4	18849.6	21970.8	28873.4	22280.5
75°	14046.3	14248.5	15730.3	18315.5	12822.3	11598.3	12481.1	12716.6	15619.0	22334.3	13933.2
77.5°	9834.6	9984.9	11420.3	13464.0	9280.2	8293.6	7974.5	8254.6	10309.4	16156.8	7019.5
80°	5665.7	5721.3	6637.5	7774.2	6253.6	7154.8	6481.6	6674.5	6177.5	7188.2	3019.2
82.5°	3707.3	3716.5	4074.4	4627.1	3894.5	4525.1	3349.3	4282.1	3800.0	2887.5	982.9
85°	2002.9	2014.0	2362.7	3284.4	2205.1	1246.2	732.6	1504.1	2349.7	662.1	268.9
87.5°	220.7	202.1	712.2	1194.3	612.0	113.1	38.9	168.8	376.4	42.7	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°	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9
2.5°	14044.5	13890.6	13506.7	13100.5	12774.1	12468.1	12160.2	11783.8	11492.6	11433.3	11336.8
5°	13744.1	13256.3	12451.4	11642.9	10991.9	10170.4	9649.2	9243.1	8846.2	8822.0	8742.3
7.5°	12694.4	12052.7	10919.6	9801.3	8885.1	8102.5	7312.5	6783.9	6368.5	6222.0	6134.8
10°	11685.5	10964.0	9549.0	8273.2	7455.3	6763.5	6207.2	5654.5	5153.8	4808.8	4653.1
12.5°	10980.8	10183.3	8623.6	7523.9	6937.9	6281.3	5602.6	4912.7	4335.9	3920.5	3666.5
15°	10708.1	9856.9	8314.0	7227.1	6503.9	5673.0	4805.1	4016.9	3377.1	3000.7	2772.6
17.5°	11032.7	10042.4	8289.8	6865.5	5854.8	4821.8	3863.0	2932.0	2329.3	2043.7	1897.2
20°	11856.1	10632.1	8280.5	6422.3	5083.3	3812.9	2616.8	1928.8	1563.4	1403.9	1335.3
22.5°	13020.8	11385.1	8354.8	5984.6	4280.3	2724.3	1806.4	1416.9	1229.5	1144.2	1105.3
25°	14519.2	12442.1	8564.3	5587.7	3525.5	2032.5	1407.6	1186.9	1055.3	988.5	960.6
27.5°	16116.0	13658.7	8890.7	5242.8	2911.6	1620.9	1205.4	1016.3	921.7	875.4	849.4
30°	17432.7	15068.2	9220.8	4859.0	2466.6	1413.2	1103.4	927.3	817.9	788.2	764.1
32.5°	18584.4	16134.6	9454.5	4512.1	2175.3	1255.5	997.8	829.0	754.8	697.3	671.4
35°	19776.8	17022.9	9447.0	4269.2	1975.1	1136.9	908.7	741.8	652.8	586.0	565.6
37.5°	21067.6	18026.2	9285.7	4061.5	1888.0	1042.2	858.7	695.5	606.4	539.6	513.7
40°	22579.1	19079.6	9120.7	3866.8	1863.8	966.2	823.4	658.3	563.8	498.8	472.9
42.5°	24051.6	20029.1	8976.0	3722.1	1760.0	964.3	791.9	630.6	530.4	467.4	437.6
45°	25229.2	20913.7	8948.2	3634.9	1650.5	997.8	775.2	612.0	504.4	441.4	413.6
47.5°	26208.4	21874.4	9126.2	3573.7	1546.6	910.6	816.0	599.0	480.3	419.1	387.6
50°	27373.1	23053.8	9545.4	3473.6	1437.3	819.7	934.7	602.7	459.9	396.8	363.5
52.5°	28997.7	24685.8	10161.0	3304.8	1287.0	736.3	919.8	606.4	437.6	372.8	339.4
55°	30818.9	26724.1	10823.1	3024.7	1077.5	626.8	788.2	580.4	395.0	346.8	315.2
57.5°	32732.7	28573.0	11216.3	2691.0	856.8	541.5	630.6	528.6	348.7	311.6	291.2
60°	33033.1	29275.8	11036.4	2281.1	680.6	471.1	467.4	537.8	311.6	274.4	259.6
62.5°	32285.8	28393.1	10166.6	1915.7	569.4	413.6	383.9	469.2	281.9	244.8	230.0
65°	30848.5	26006.3	8757.2	1726.6	528.6	354.2	319.0	330.1	246.7	213.2	200.3
67.5°	28849.3	22820.2	7190.1	1619.0	523.0	304.2	272.7	250.4	213.2	185.5	174.3
70°	24761.9	19010.9	5736.1	1559.7	508.2	255.9	230.0	204.0	178.0	157.6	148.4
72.5°	18224.6	13471.4	4462.0	1494.8	511.9	204.0	200.3	168.8	142.8	122.4	118.7
75°	10530.1	7696.4	2926.5	1211.0	487.8	157.6	166.9	118.7	100.1	85.3	85.3
77.5°	5611.8	4693.9	1114.6	504.4	178.0	100.1	94.6	70.5	63.1	51.9	50.1
80°	2446.2	2066.0	335.6	140.9	98.3	53.8	35.2	31.5	27.9	22.3	20.4
82.5°	866.1	747.4	109.5	68.7	42.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	196.6	140.9	0.0	16.7	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°	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9
2.5°	11140.3	11099.5	10858.4	10867.6	10910.3	10971.5	10826.8	10893.6	11073.5	11245.9	11310.9
5°	8614.4	8623.6	8477.1	8568.0	8649.6	8705.2	8471.6	8475.3	8618.1	8812.8	8914.8
7.5°	6070.0	6055.1	6062.5	6279.5	6433.5	6322.1	6409.3	6107.0	6125.6	6264.7	6160.8
10°	4512.1	4308.1	4193.1	4356.3	4525.1	4463.9	4313.7	4215.3	4284.0	4437.9	4426.8
12.5°	3545.9	3252.9	3080.4	2963.5	3102.6	2987.7	2983.9	2898.7	2805.9	2822.6	3069.3
15°	2666.8	2453.6	2249.6	2062.3	2058.5	2019.6	1821.2	1598.6	1580.1	1591.2	1719.2
17.5°	1834.1	1761.8	1678.4	1517.0	1474.4	1311.2	1118.3	1029.3	984.7	1005.1	1047.8
20°	1288.9	1261.1	1270.4	1183.2	1122.0	966.2	853.1	817.9	810.4	830.8	851.2
22.5°	1068.2	1018.2	1012.6	973.7	912.5	799.3	738.1	717.7	708.4	727.0	741.8
25°	934.7	884.6	864.2	840.1	775.2	697.3	660.2	641.6	632.4	643.5	652.8
27.5°	823.4	777.1	758.5	741.8	678.7	623.1	593.5	576.7	569.4	573.1	582.3
30°	739.9	699.1	675.1	654.7	600.8	561.9	535.9	519.2	511.9	511.9	521.1
32.5°	652.8	630.6	608.3	582.3	532.3	506.3	480.3	461.8	454.4	456.2	463.6
35°	543.4	535.9	541.5	517.4	474.8	452.5	426.6	406.2	400.6	402.4	409.9
37.5°	482.2	448.8	469.2	456.2	432.1	402.4	369.1	350.5	341.2	346.8	350.5
40°	443.2	402.4	387.6	400.6	396.8	348.7	319.0	300.4	293.0	294.8	298.6
42.5°	409.9	361.6	328.3	326.4	348.7	304.2	272.7	255.9	246.7	246.7	250.4
45°	378.3	326.4	285.6	254.0	293.0	257.8	228.1	213.2	202.1	202.1	204.0
47.5°	354.2	296.7	248.5	207.7	220.7	211.5	187.3	172.4	161.3	161.3	163.2
50°	332.0	267.1	215.1	174.3	165.1	174.3	152.0	135.4	128.0	126.1	129.9
52.5°	307.9	237.4	183.6	148.4	129.9	131.6	118.7	107.6	98.3	98.3	102.0
55°	283.7	213.2	159.5	126.1	107.6	98.3	94.6	87.2	79.7	79.7	83.5
57.5°	259.6	187.3	135.4	103.9	85.3	77.9	77.9	72.3	66.8	66.8	70.5
60°	237.4	161.3	111.2	85.3	66.8	64.9	66.8	61.2	57.5	57.5	61.2
62.5°	211.5	137.2	90.9	70.5	53.8	51.9	57.5	53.8	50.1	50.1	53.8
65°	179.9	116.8	72.3	53.8	40.8	40.8	48.3	44.5	40.8	40.8	44.5
67.5°	152.0	98.3	55.6	38.9	29.7	31.5	40.8	37.1	35.2	35.2	38.9
70°	126.1	76.0	38.9	24.1	16.7	24.1	31.5	31.5	31.5	31.5	35.2
72.5°	94.6	51.9	22.3	9.3	7.5	16.7	26.0	29.7	27.9	27.9	33.3
75°	61.2	29.7	7.5	0.0	0.0	9.3	20.4	24.1	24.1	22.3	27.9
77.5°	35.2	9.3	0.0	0.0	0.0	0.0	12.9	11.1	9.3	7.5	12.9
80°	9.3	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: P383562

CATALOG NUMBER: GLEON-SA8C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9	13133.9
2.5°	11572.3	11791.2	12099.0	12425.4	12928.0	13326.7	13718.1	14053.8	14183.6	14237.3
5°	9159.6	9480.5	9931.1	10509.7	11416.6	12232.6	13059.7	13892.4	14254.1	14344.9
7.5°	6572.5	6982.3	7555.4	8280.5	9343.2	10400.3	11555.7	12777.9	13337.9	13478.8
10°	4864.4	5365.2	6021.7	6785.8	7800.2	8887.0	10146.2	11542.7	12182.5	12369.8
12.5°	3451.3	4128.2	5007.3	5936.4	6815.5	7785.4	9059.5	10598.8	11270.0	11472.2
15°	2027.0	2681.6	3722.1	4966.5	6092.2	7075.1	8369.6	10114.7	10854.7	11058.7
17.5°	1162.8	1489.2	2275.5	3662.8	5190.9	6552.1	8152.6	10235.2	11106.8	11296.0
20°	888.3	992.2	1311.2	2359.0	4137.5	6038.4	8152.6	10917.7	11991.5	12269.7
22.5°	777.1	853.1	982.9	1407.6	3045.1	5487.6	8247.2	11904.3	13308.2	13616.1
25°	689.9	758.5	869.8	1059.0	2077.1	4833.0	8471.6	13115.4	14858.6	15257.4
27.5°	617.5	682.5	782.6	927.3	1420.6	4042.9	8773.9	14536.0	16568.5	16887.5
30°	552.7	613.9	704.7	806.7	1096.1	3147.1	9031.6	15874.9	17911.2	18254.3
32.5°	491.5	547.1	628.7	704.7	897.6	2327.5	9059.5	16935.7	19025.7	19367.1
35°	434.0	484.0	558.2	617.5	743.7	1837.9	8627.3	17855.5	20140.3	20591.0
37.5°	378.3	426.6	491.5	535.9	654.7	1498.5	7967.2	18881.2	21570.3	21987.5
40°	326.4	369.1	435.8	465.5	619.4	1151.7	7249.4	19956.7	22972.2	23354.3
42.5°	278.2	319.0	383.9	441.4	543.4	860.5	6474.3	20965.6	24233.4	24633.9
45°	231.9	274.4	339.4	467.4	450.7	643.5	5645.3	21635.1	25229.2	25665.1
47.5°	187.3	235.5	324.6	445.1	359.8	472.9	4988.7	22269.4	25984.0	26414.3
50°	150.3	198.4	365.4	396.8	294.8	361.6	4714.3	22836.9	26479.2	26892.8
52.5°	122.4	166.9	345.0	304.2	246.7	298.6	4862.6	23756.7	26937.3	27196.9
55°	102.0	131.6	207.7	211.5	209.6	254.0	5046.2	25077.2	28122.3	28244.7
57.5°	89.1	105.7	144.7	163.2	176.2	226.3	5049.9	26972.5	29956.5	30032.5
60°	76.0	92.7	120.5	131.6	152.0	202.1	4866.3	27634.5	30677.9	30930.1
62.5°	66.8	81.6	100.1	109.5	128.0	181.7	4436.0	26675.8	29687.6	30116.0
65°	59.3	74.2	83.5	92.7	113.1	163.2	3727.7	24758.2	28044.4	28491.4
67.5°	51.9	64.9	74.2	83.5	102.0	144.7	2744.7	22530.9	26158.3	26529.3
70°	46.4	57.5	66.8	74.2	89.1	122.4	1665.4	19118.5	23550.9	23704.8
72.5°	44.5	51.9	61.2	66.8	77.9	107.6	843.8	14050.1	18827.3	19077.7
75°	38.9	46.4	55.6	59.3	68.7	92.7	343.1	9228.2	13643.9	14046.3
77.5°	31.5	42.7	50.1	53.8	59.3	76.0	174.3	5897.4	9575.0	9834.6
80°	11.1	31.5	42.7	44.5	50.1	55.6	115.0	3228.7	5554.4	5665.7
82.5°	0.0	20.4	33.3	31.5	35.2	42.7	74.2	1535.6	3666.5	3707.3
85°	0.0	9.3	26.0	20.4	14.8	29.7	26.0	335.6	1923.2	2002.9
87.5°	0.0	0.0	1.9	9.3	7.5	11.1	3.7	1.9	174.3	220.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)