

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: P383086

Luminaire Tested: **GLEON-SA4B-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383086
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-SA4B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 15920.2 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

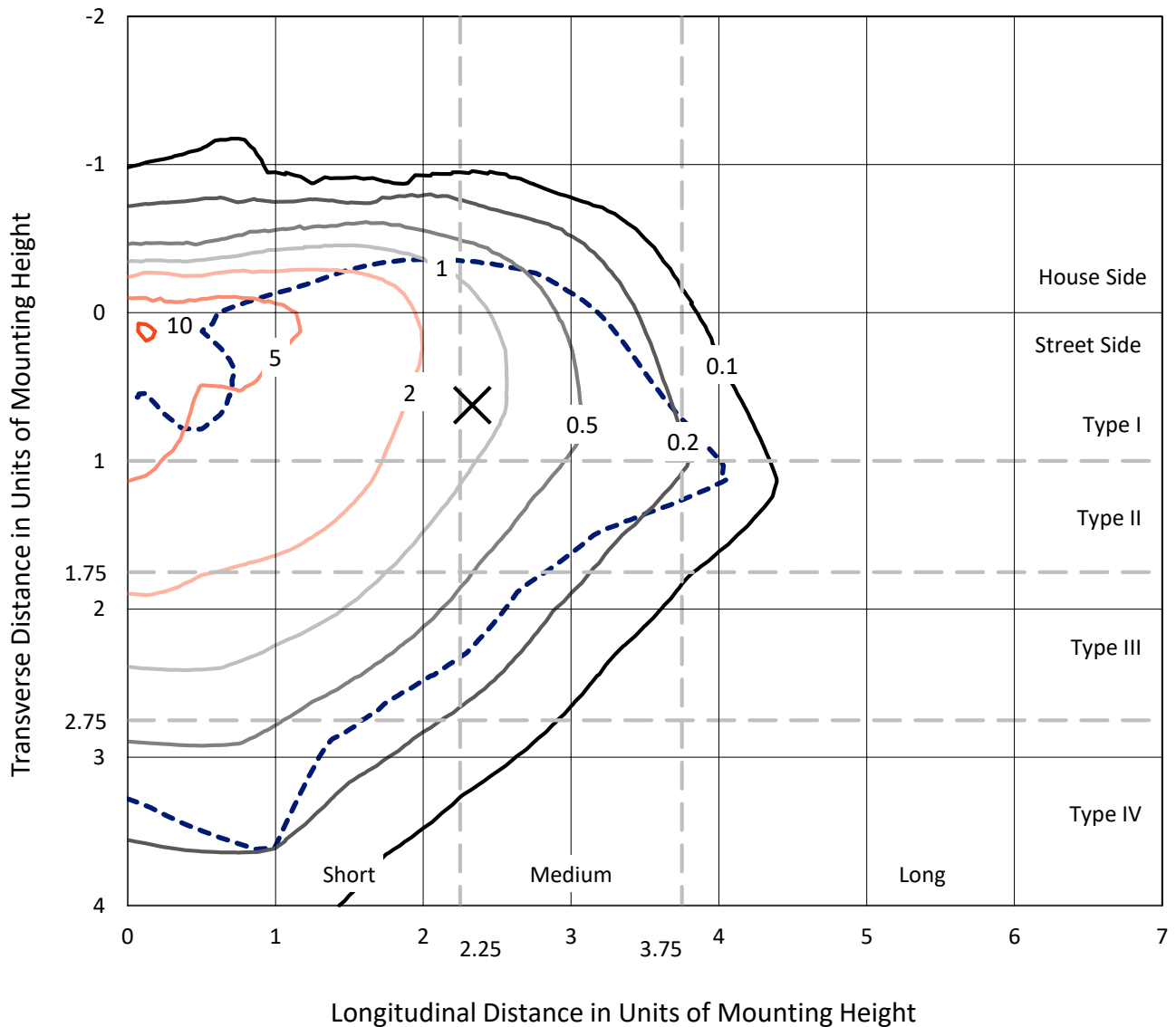
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

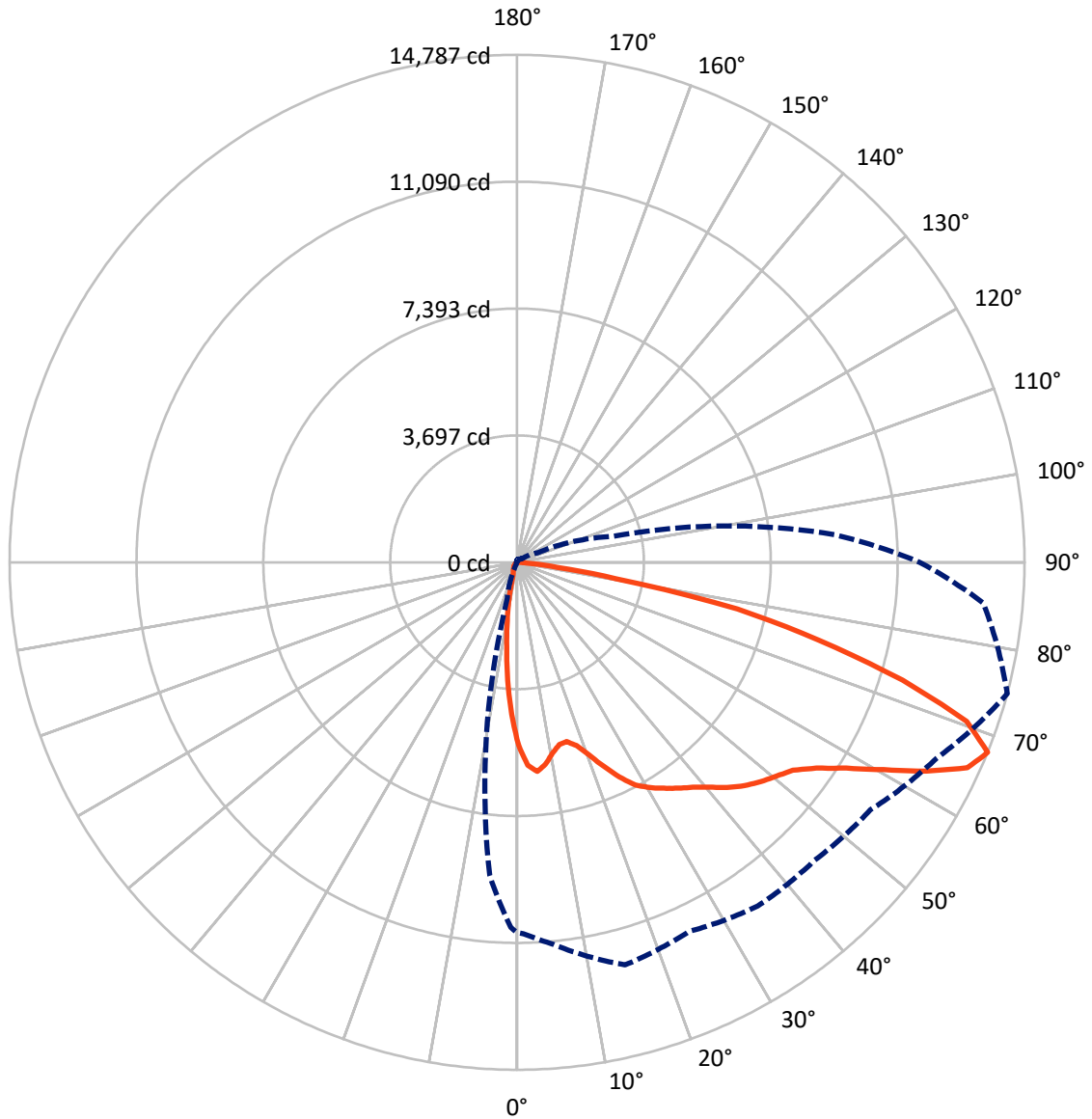
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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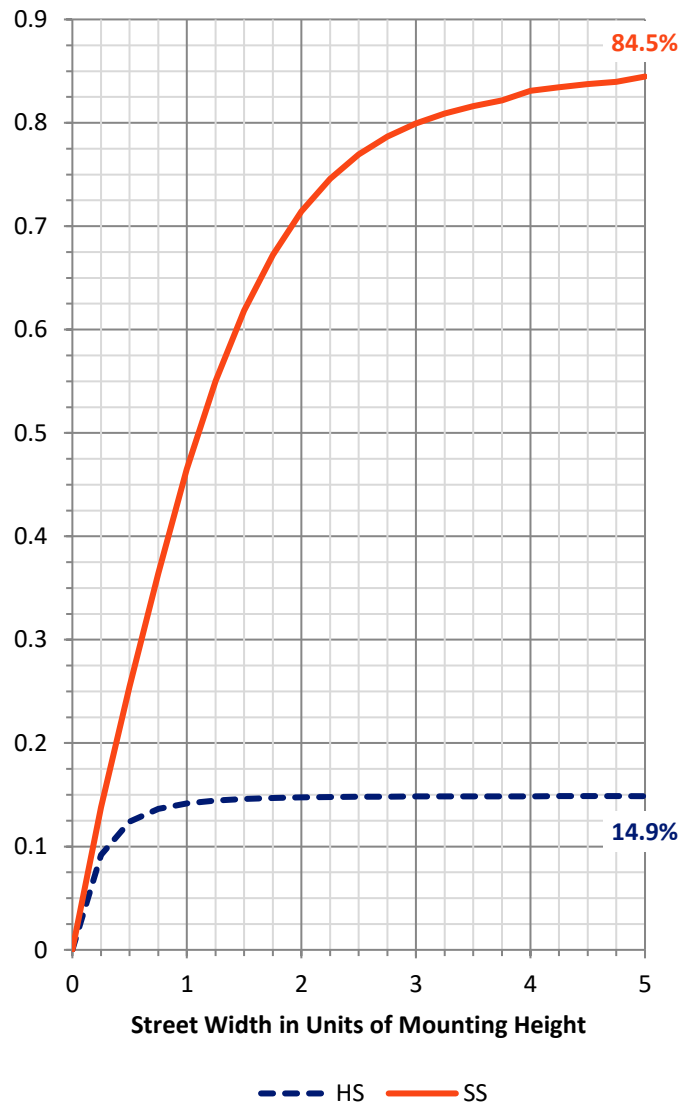
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2389.0	0.0	2389.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13531.2	0.0	13531.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	15920.2	0.0	15920.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	2.5
10°-20°	797.7	5.0
20°-30°	1128.5	7.1
30°-40°	1659.3	10.4
40°-50°	2384.9	15.0
50°-60°	3357.3	21.1
60°-70°	3921.1	24.6
70°-80°	2000.4	12.6
80°-90°	265.7	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°	15920.2	100.0
0°-180°	15920.2	100.0

Coefficient of Utilization

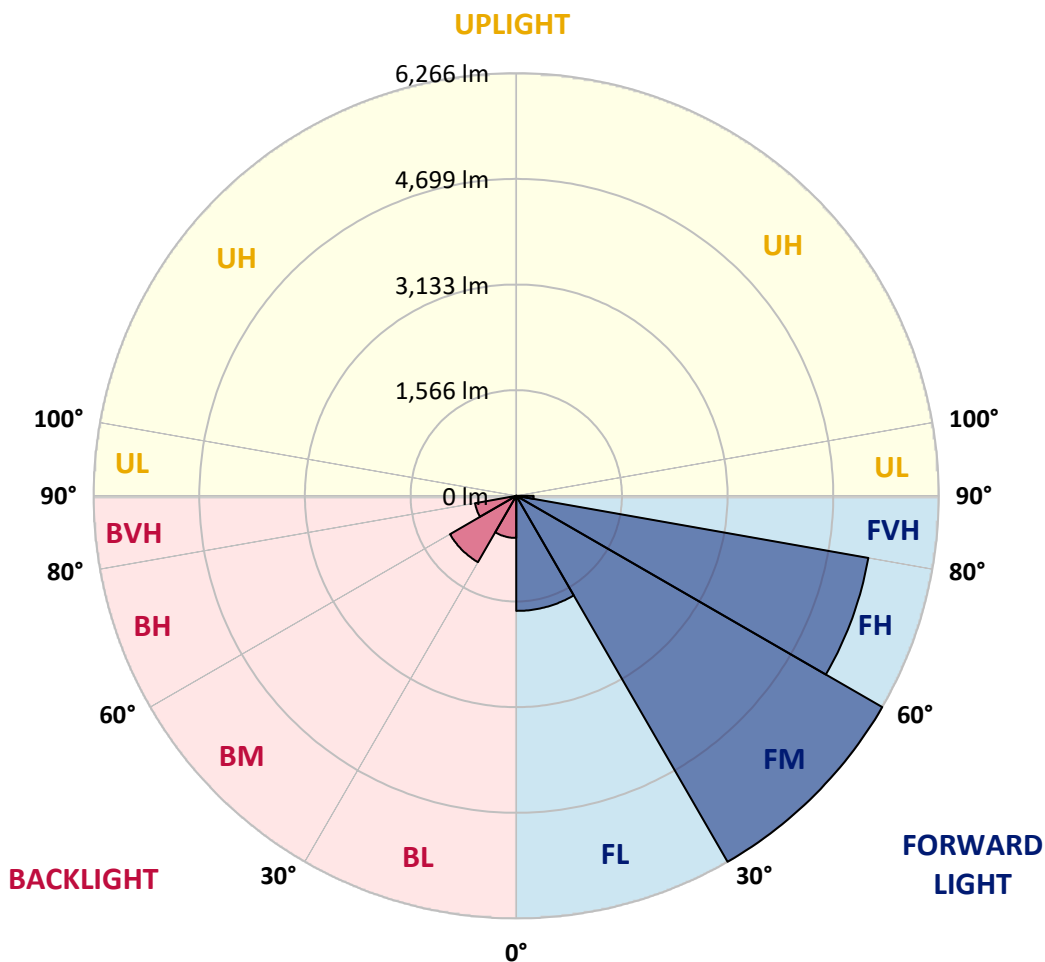


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.6	10.7			
FM (30°-60°)	6265.9	39.4			
FH (60°-80°)	5300.9	33.3			G3/7500
FVH (80°-90°)	257.7	1.6			G3/500
BL (0°-30°)	624.7	3.9	B2/1000		
BM (30°-60°)	1135.7	7.1	B2/2500		
BH (60°-80°)	620.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9
2.5°	5789.7	5798.7	5845.5	5954.1	6072.5	6081.5	6161.4	6079.3	6051.3	5918.6	5781.4
5°	5833.4	5868.1	6028.7	6347.8	6624.5	6713.5	6776.8	6615.5	6445.8	6121.5	5775.3
7.5°	5481.2	5539.3	5791.9	6390.7	6885.4	7104.2	7145.6	6893.0	6477.4	5943.6	5423.1
10°	5030.3	5096.6	5401.3	6137.3	6816.8	7191.6	7248.9	6917.9	6320.6	5655.4	5042.3
12.5°	4665.2	4742.9	5054.4	5852.3	6580.7	6995.5	7108.6	6834.2	6184.8	5451.0	4782.1
15°	4497.0	4586.0	4913.4	5668.3	6319.1	6645.7	6739.2	6620.7	6109.5	5418.6	4721.7
17.5°	4593.6	4690.1	5027.9	5684.1	6073.2	6212.8	6288.1	6336.4	6109.5	5614.0	4898.3
20°	4989.5	5093.6	5451.0	5844.7	5869.6	5817.6	5898.3	6067.9	6180.4	5985.0	5322.1
22.5°	5537.0	5659.2	6062.7	6120.0	5770.1	5573.3	5583.8	5850.0	6309.3	6455.6	5910.3
25°	6204.5	6353.8	6764.1	6530.2	5811.6	5427.7	5423.9	5670.5	6435.2	6926.9	6565.7
27.5°	6867.4	7031.8	7392.2	7031.0	5982.8	5401.3	5393.8	5616.2	6558.2	7346.3	7281.3
30°	7423.1	7583.1	7893.7	7393.8	6167.5	5463.2	5426.9	5674.2	6631.3	7618.5	7803.3
32.5°	7875.7	8003.9	8255.0	7643.3	6365.1	5583.0	5504.6	5829.6	6755.8	7848.5	8282.9
35°	8373.4	8508.4	8608.7	7880.9	6586.8	5755.8	5643.3	6076.2	6947.3	8082.3	8808.5
37.5°	8941.3	9075.5	9063.5	8098.1	6868.1	6041.6	5969.9	6466.9	7245.2	8313.8	9395.3
40°	9497.1	9634.3	9536.3	8335.7	7198.4	6512.9	6460.1	7053.6	7644.1	8610.2	10083.1
42.5°	10017.5	10166.1	9956.4	8560.5	7592.1	7107.1	7197.7	7809.3	8143.4	8975.2	10675.8
45°	10436.8	10588.3	10308.6	8779.2	8006.8	7828.2	8100.4	8646.4	8743.7	9283.7	11076.3
47.5°	10741.5	10884.8	10552.9	8997.8	8537.8	8709.8	9184.1	9524.2	9285.9	9551.4	11360.6
50°	10936.0	11047.6	10624.6	9271.6	9234.6	9738.4	10313.1	10479.0	9796.5	9792.7	11706.0
52.5°	11059.7	11110.2	10677.3	9557.4	9961.7	10858.3	11418.7	11470.7	10322.1	10058.2	12171.3
55°	11485.8	11526.5	11051.4	9903.6	10562.7	11839.5	12418.7	12370.4	10917.2	10577.8	12720.4
57.5°	12212.8	12255.8	11824.4	10401.3	11049.2	12445.8	13143.5	13230.2	11614.7	11307.9	13308.6
60°	12577.8	12657.8	12503.9	11031.8	11520.5	12833.5	13637.4	13914.2	12486.6	12270.2	13878.8
62.5°	12246.8	12362.8	12586.1	11730.9	11988.8	13046.9	13791.3	14159.3	13379.5	13391.6	14230.2
65°	11586.1	11678.9	12057.5	12114.0	12260.3	13020.5	13411.2	13816.9	13926.3	14421.8	14211.3
67.5°	10788.3	10822.9	11144.2	12144.2	11866.6	12227.1	12269.4	12569.6	13494.1	14786.7	13640.5
70°	9639.7	9658.5	9939.1	11134.3	10197.7	10276.9	10214.3	10275.3	11601.2	13897.6	12199.3
72.5°	7758.0	7805.5	8204.5	9246.7	7429.2	7200.7	7692.4	7665.2	8934.5	11741.5	9060.4
75°	5712.0	5794.2	6396.8	7448.1	5214.2	4716.5	5075.4	5171.2	6351.5	9082.3	5666.0
77.5°	3999.3	4060.3	4644.1	5475.2	3773.8	3372.6	3242.9	3356.7	4192.3	6570.2	2854.4
80°	2303.9	2326.5	2699.2	3161.4	2543.0	2909.5	2635.8	2714.3	2512.1	2923.1	1227.8
82.5°	1507.5	1511.3	1656.9	1881.6	1583.7	1840.2	1362.0	1741.3	1545.3	1174.2	399.7
85°	814.5	819.0	960.8	1335.7	896.7	506.8	297.9	611.7	955.5	269.2	109.4
87.5°	89.7	82.2	289.6	485.7	248.9	46.0	15.8	68.7	153.1	17.3	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°	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9
2.5°	5711.2	5648.6	5492.5	5327.3	5194.6	5070.2	4945.0	4791.9	4673.5	4649.4	4610.1
5°	5589.1	5390.7	5063.4	4734.6	4469.8	4135.8	3923.9	3758.7	3597.4	3587.5	3555.1
7.5°	5162.2	4901.2	4440.5	3985.7	3613.2	3294.9	2973.7	2758.7	2589.8	2530.2	2494.8
10°	4751.9	4458.6	3883.2	3364.3	3031.7	2750.4	2524.1	2299.4	2095.8	1955.5	1892.2
12.5°	4465.4	4141.1	3506.8	3059.6	2821.3	2554.3	2278.3	1997.8	1763.2	1594.3	1490.9
15°	4354.5	4008.4	3380.9	2938.9	2644.8	2307.0	1954.0	1633.5	1373.3	1220.2	1127.5
17.5°	4486.5	4083.7	3371.1	2791.8	2380.8	1960.8	1570.9	1192.3	947.2	831.1	771.5
20°	4821.3	4323.6	3367.3	2611.7	2067.1	1550.6	1064.1	784.4	635.8	570.9	543.0
22.5°	5294.9	4629.8	3397.4	2433.7	1740.6	1107.9	734.5	576.2	500.0	465.3	449.5
25°	5904.3	5059.6	3482.7	2272.2	1433.7	826.6	572.4	482.6	429.1	402.0	390.7
27.5°	6553.6	5554.4	3615.4	2132.0	1184.0	659.2	490.2	413.2	374.9	355.9	345.4
30°	7089.1	6127.5	3749.7	1975.9	1003.0	574.7	448.7	377.1	332.6	320.5	310.7
32.5°	7557.4	6561.2	3844.7	1834.9	884.6	510.6	405.8	337.1	306.9	283.6	273.0
35°	8042.3	6922.4	3841.7	1736.0	803.2	462.3	369.5	301.6	265.5	238.3	230.0
37.5°	8567.3	7330.4	3776.0	1651.6	767.7	423.9	349.1	282.8	246.6	219.5	208.9
40°	9181.9	7758.8	3709.0	1572.5	757.9	392.9	334.9	267.7	229.3	202.9	192.3
42.5°	9780.7	8144.9	3650.1	1513.6	715.7	392.2	322.0	256.5	215.7	190.0	178.0
45°	10259.5	8504.7	3638.8	1478.2	671.2	405.8	315.2	248.9	205.1	179.5	168.1
47.5°	10657.7	8895.3	3711.2	1453.2	629.0	370.3	331.8	243.6	195.3	170.5	157.6
50°	11131.3	9374.9	3881.7	1412.5	584.5	333.3	380.1	245.1	187.1	161.3	147.8
52.5°	11792.0	10038.5	4132.1	1343.9	523.3	299.4	374.0	246.6	178.0	151.6	138.1
55°	12532.6	10867.4	4401.3	1230.0	438.2	254.9	320.5	236.1	160.6	141.0	128.2
57.5°	13310.9	11619.3	4561.1	1094.3	348.4	220.2	256.5	214.9	141.8	126.7	118.4
60°	13433.0	11905.1	4488.0	927.6	276.8	191.5	190.0	218.7	126.7	111.6	105.5
62.5°	13129.1	11546.2	4134.3	779.1	231.5	168.1	156.1	190.8	114.7	99.6	93.5
65°	12544.7	10575.6	3561.1	702.1	214.9	144.0	129.7	134.2	100.3	86.7	81.4
67.5°	11731.6	9279.9	2923.8	658.4	212.7	123.7	110.9	101.8	86.7	75.5	70.9
70°	10069.5	7730.8	2332.6	634.3	206.6	104.1	93.5	83.0	72.4	64.1	60.4
72.5°	7411.1	5478.2	1814.5	607.8	208.1	83.0	81.4	68.7	58.0	49.7	48.3
75°	4282.1	3129.7	1190.1	492.5	198.3	64.1	67.9	48.3	40.7	34.7	34.7
77.5°	2282.1	1908.7	453.3	205.1	72.4	40.7	38.5	28.7	25.6	21.1	20.4
80°	994.7	840.2	136.5	57.3	40.0	21.9	14.3	12.9	11.3	9.0	8.3
82.5°	352.2	304.0	44.5	27.9	17.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	79.9	57.3	0.0	6.8	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°	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9
2.5°	4530.2	4513.6	4415.6	4419.4	4436.7	4461.6	4402.8	4429.9	4503.1	4573.2	4599.6
5°	3503.1	3506.8	3447.3	3484.2	3517.4	3540.0	3445.0	3446.5	3504.6	3583.8	3625.2
7.5°	2468.3	2462.4	2465.3	2553.6	2616.2	2570.9	2606.4	2483.4	2491.0	2547.5	2505.3
10°	1834.9	1751.9	1705.1	1771.5	1840.2	1815.2	1754.2	1714.2	1742.1	1804.7	1800.2
12.5°	1441.9	1322.8	1252.7	1205.1	1261.7	1214.9	1213.4	1178.8	1141.1	1147.9	1248.1
15°	1084.5	997.8	914.8	838.6	837.1	821.3	740.6	650.1	642.6	647.1	699.1
17.5°	745.9	716.5	682.5	616.9	599.5	533.2	454.8	418.5	400.5	408.8	426.1
20°	524.2	512.8	516.6	481.1	456.3	392.9	346.9	332.6	329.6	337.9	346.2
22.5°	434.4	414.1	411.7	395.9	371.0	325.0	300.1	291.9	288.1	295.7	301.6
25°	380.1	359.8	351.5	341.6	315.2	283.6	268.5	260.9	257.2	261.7	265.5
27.5°	334.9	316.0	308.4	301.6	276.0	253.4	241.4	234.6	231.5	233.1	236.8
30°	300.9	284.3	274.5	266.2	244.3	228.5	218.0	211.2	208.1	208.1	211.9
32.5°	265.5	256.5	247.3	236.8	216.4	205.9	195.3	187.8	184.7	185.6	188.5
35°	221.0	218.0	220.2	210.4	193.1	184.0	173.5	165.2	162.9	163.7	166.7
37.5°	196.1	182.5	190.8	185.6	175.7	163.7	150.1	142.5	138.8	141.0	142.5
40°	180.3	163.7	157.6	162.9	161.3	141.8	129.7	122.2	119.1	119.9	121.4
42.5°	166.7	147.1	133.5	132.7	141.8	123.7	110.9	104.1	100.3	100.3	101.8
45°	153.9	132.7	116.2	103.3	119.1	104.8	92.8	86.7	82.2	82.2	83.0
47.5°	144.0	120.6	101.1	84.5	89.7	86.0	76.2	70.1	65.6	65.6	66.3
50°	135.0	108.6	87.5	70.9	67.2	70.9	61.9	55.1	52.1	51.3	52.8
52.5°	125.2	96.5	74.6	60.4	52.8	53.6	48.3	43.8	40.0	40.0	41.5
55°	115.4	86.7	64.8	51.3	43.8	40.0	38.5	35.4	32.4	32.4	33.9
57.5°	105.5	76.2	55.1	42.2	34.7	31.7	31.7	29.4	27.1	27.1	28.7
60°	96.5	65.6	45.3	34.7	27.1	26.4	27.1	24.9	23.4	23.4	24.9
62.5°	86.0	55.8	37.0	28.7	21.9	21.1	23.4	21.9	20.4	20.4	21.9
65°	73.1	47.5	29.4	21.9	16.6	16.6	19.6	18.1	16.6	16.6	18.1
67.5°	61.9	40.0	22.6	15.8	12.1	12.9	16.6	15.1	14.3	14.3	15.8
70°	51.3	30.9	15.8	9.8	6.8	9.8	12.9	12.9	12.9	12.9	14.3
72.5°	38.5	21.1	9.0	3.7	3.0	6.8	10.5	12.1	11.3	11.3	13.6
75°	24.9	12.1	3.0	0.0	0.0	3.7	8.3	9.8	9.8	9.0	11.3
77.5°	14.3	3.7	0.0	0.0	0.0	0.0	5.3	4.6	3.7	3.0	5.3
80°	3.7	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: P383086

CATALOG NUMBER: GLEON-SA4B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9
2.5°	4705.9	4795.0	4920.2	5052.8	5257.2	5419.4	5578.5	5715.0	5767.8	5789.7
5°	3724.8	3855.2	4038.5	4273.8	4642.6	4974.4	5310.8	5649.4	5796.5	5833.4
7.5°	2672.7	2839.4	3072.4	3367.3	3799.4	4229.3	4699.2	5196.2	5423.9	5481.2
10°	1978.1	2181.8	2448.8	2759.4	3172.0	3613.9	4126.0	4693.9	4954.1	5030.3
12.5°	1403.5	1678.7	2036.2	2414.0	2771.5	3166.0	3684.1	4310.0	4583.0	4665.2
15°	824.3	1090.5	1513.6	2019.6	2477.5	2877.1	3403.5	4113.2	4414.0	4497.0
17.5°	472.9	605.6	925.3	1489.5	2110.9	2664.4	3315.3	4162.2	4516.6	4593.6
20°	361.3	403.5	533.2	959.3	1682.6	2455.6	3315.3	4439.8	4876.4	4989.5
22.5°	316.0	346.9	399.7	572.4	1238.3	2231.5	3353.8	4841.0	5411.8	5537.0
25°	280.6	308.4	353.7	430.7	844.6	1965.3	3445.0	5333.4	6042.3	6204.5
27.5°	251.1	277.5	318.2	377.1	577.7	1644.1	3567.9	5911.0	6737.6	6867.4
30°	224.8	249.7	286.5	328.1	445.7	1279.8	3672.7	6455.6	7283.7	7423.1
32.5°	199.8	222.5	255.6	286.5	365.0	946.5	3684.1	6886.9	7736.9	7875.7
35°	176.4	196.8	227.0	251.1	302.4	747.4	3508.3	7261.0	8190.2	8373.4
37.5°	153.9	173.5	199.8	218.0	266.2	609.3	3239.8	7678.1	8771.6	8941.3
40°	132.7	150.1	177.2	189.3	251.9	468.3	2948.0	8115.5	9341.7	9497.1
42.5°	113.1	129.7	156.1	179.5	221.0	349.9	2632.7	8525.7	9854.6	10017.5
45°	94.3	111.6	138.1	190.0	183.2	261.7	2295.6	8798.0	10259.5	10436.8
47.5°	76.2	95.8	132.0	181.0	146.3	192.3	2028.7	9055.9	10566.5	10741.5
50°	61.1	80.7	148.6	161.3	119.9	147.1	1917.0	9286.7	10767.9	10936.0
52.5°	49.7	67.9	140.3	123.7	100.3	121.4	1977.4	9660.7	10954.2	11059.7
55°	41.5	53.6	84.5	86.0	85.2	103.3	2052.1	10197.7	11436.1	11485.8
57.5°	36.2	42.9	58.8	66.3	71.6	92.0	2053.6	10968.4	12181.8	12212.8
60°	30.9	37.7	49.0	53.6	61.9	82.2	1978.9	11237.7	12475.3	12577.8
62.5°	27.1	33.2	40.7	44.5	52.1	73.9	1803.9	10847.8	12072.6	12246.8
65°	24.1	30.2	33.9	37.7	46.0	66.3	1515.8	10068.0	11404.4	11586.1
67.5°	21.1	26.4	30.2	33.9	41.5	58.8	1116.2	9162.2	10637.3	10788.3
70°	18.8	23.4	27.1	30.2	36.2	49.7	677.2	7774.6	9577.1	9639.7
72.5°	18.1	21.1	24.9	27.1	31.7	43.8	343.2	5713.5	7656.2	7758.0
75°	15.8	18.8	22.6	24.1	27.9	37.7	139.5	3752.6	5548.3	5712.0
77.5°	12.9	17.3	20.4	21.9	24.1	30.9	70.9	2398.2	3893.7	3999.3
80°	4.6	12.9	17.3	18.1	20.4	22.6	46.8	1313.0	2258.7	2303.9
82.5°	0.0	8.3	13.6	12.9	14.3	17.3	30.2	624.4	1490.9	1507.5
85°	0.0	3.7	10.5	8.3	6.1	12.1	10.5	136.5	782.0	814.5
87.5°	0.0	0.0	0.7	3.7	3.0	4.6	1.5	0.7	70.9	89.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)