

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: P324614

Luminaire Tested: **GLEON-SA0C-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324614
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-SA0C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA 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: 38150 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

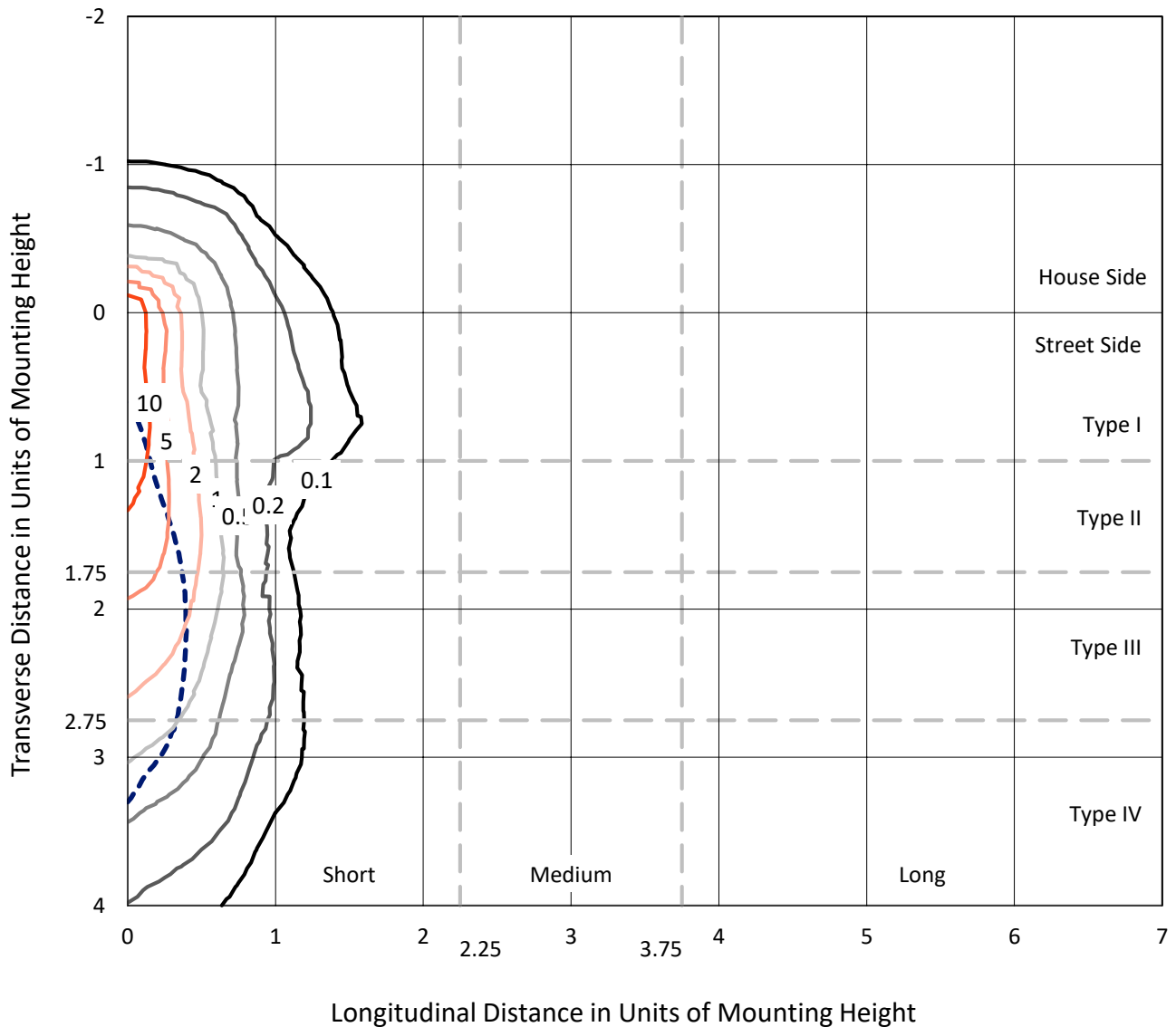
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

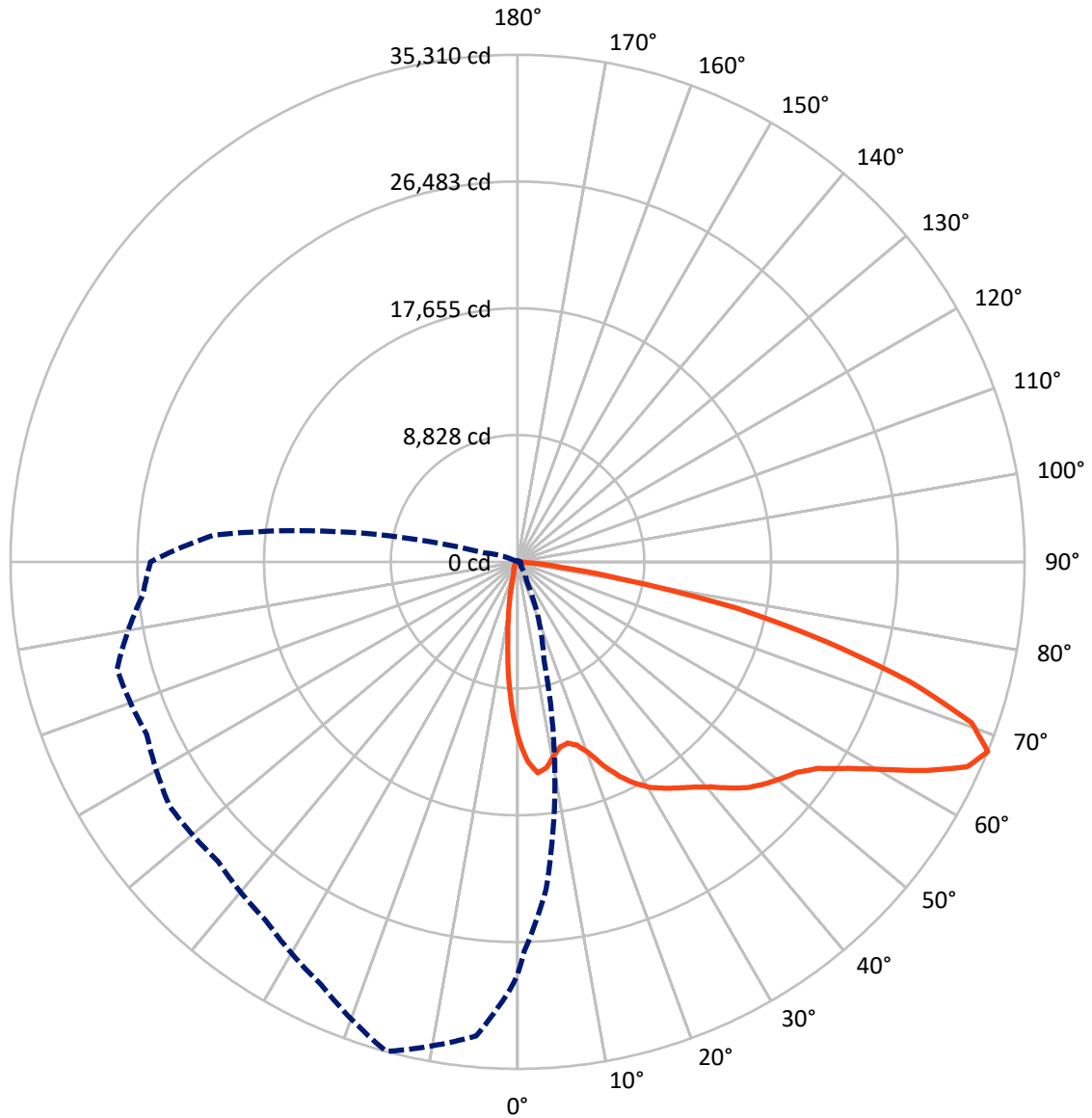
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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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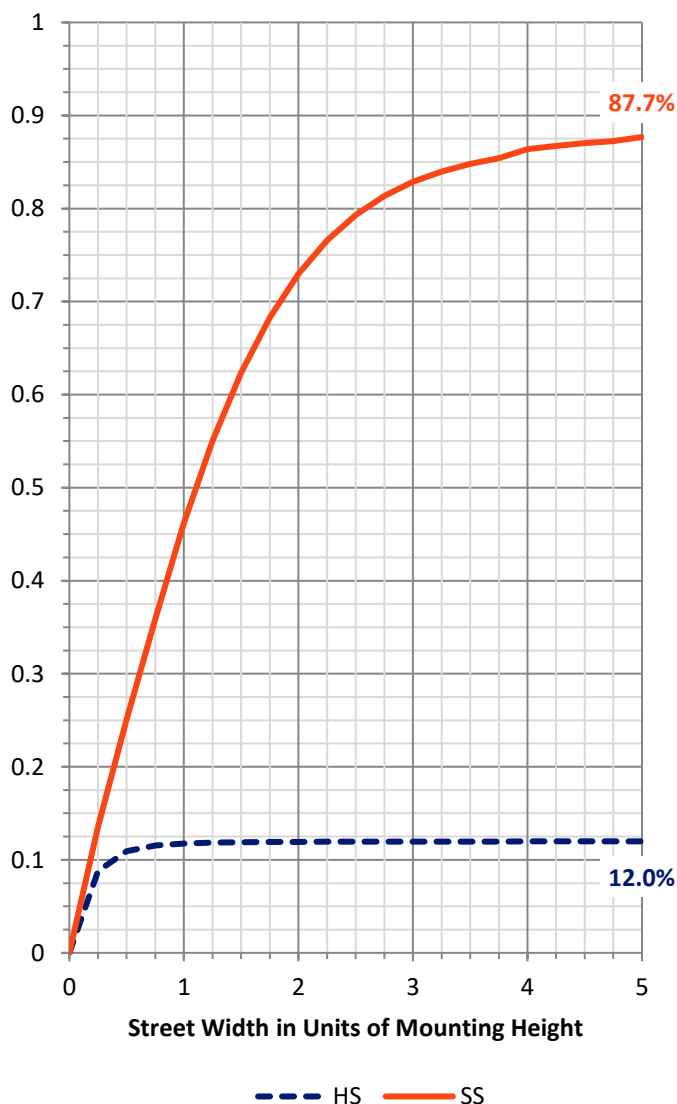
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4617.4	0.0	4617.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33532.6	0.0	33532.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	38150.0	0.0	38150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	953.8	2.5
10°-20°	1898.5	5.0
20°-30°	2695.9	7.1
30°-40°	3981.9	10.4
40°-50°	5742.8	15.1
50°-60°	8061.7	21.1
60°-70°	9397.6	24.6
70°-80°	4804.2	12.6
80°-90°	613.6	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°	38150.0	100.0
0°-180°	38150.0	100.0

Coefficient of Utilization

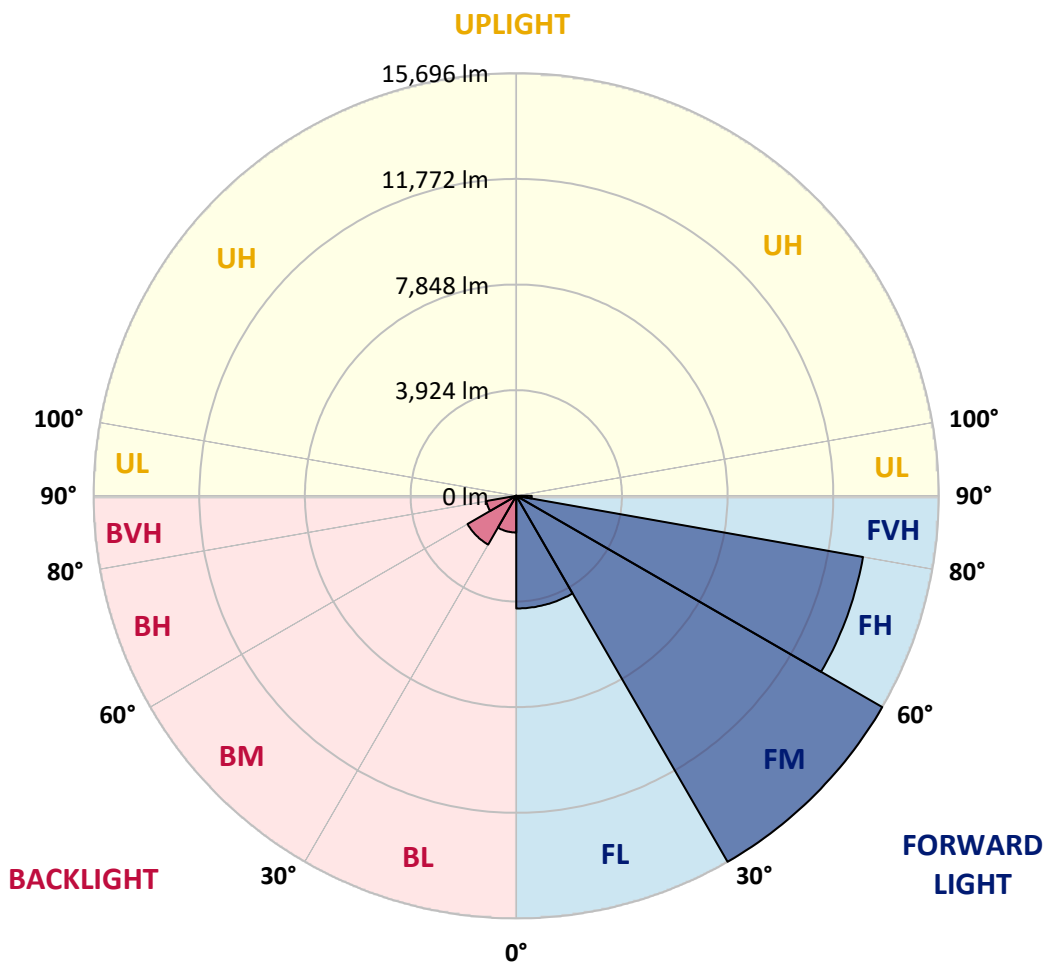


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4184.3	11.0			
FM (30°-60°)	15695.5	41.1			
FH (60°-80°)	13076.5	34.3			G5
FVH (80°-90°)	576.3	1.5			G4/750
BL (0°-30°)	1363.8	3.6	B3/2500		
BM (30°-60°)	2090.9	5.5	B2/2500		
BH (60°-80°)	1125.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	37.3	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°	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3
2.5°	13607.5	13502.7	13387.0	13009.3	12658.6	12257.4	11930.3	11702.5	11417.0	11046.5	10952.5
5°	13509.9	13397.8	13034.6	12194.1	11458.6	10742.8	10052.4	9647.6	9145.2	8635.5	8509.0
7.5°	12528.5	12411.0	11886.9	10735.6	9745.2	8711.4	7815.0	7260.1	6692.6	6226.3	5978.7
10°	11507.4	11379.0	10789.8	9392.8	8172.8	7238.4	6580.5	6051.0	5514.2	5015.4	4617.8
12.5°	10804.3	10636.2	9996.4	8413.2	7350.5	6716.1	6101.6	5467.2	4740.7	4205.7	3768.3
15°	10509.7	10318.1	9642.2	8035.4	7059.5	6314.9	5514.2	4735.2	3884.0	3271.3	2870.1
17.5°	10737.4	10488.0	9763.3	8010.1	6694.4	5680.5	4668.4	3753.9	2830.3	2210.4	1924.8
20°	11511.0	11183.8	10263.9	8002.9	6251.6	4926.8	3643.6	2609.8	1865.2	1500.1	1350.1
22.5°	12729.1	12297.2	10983.2	8060.8	5794.3	4135.2	2631.5	1773.0	1400.7	1210.9	1122.4
25°	14200.3	13699.7	12018.8	8265.0	5393.1	3365.3	1912.2	1400.7	1182.0	1042.8	968.7
27.5°	15599.2	15192.5	13327.3	8559.6	5082.2	2743.5	1552.5	1187.4	1010.3	918.1	858.5
30°	16996.3	16484.8	14670.2	8910.2	4708.1	2322.4	1364.5	1082.6	905.5	807.9	769.9
32.5°	18012.0	17587.3	15722.1	9163.2	4308.7	2047.7	1220.0	990.4	845.8	746.4	690.4
35°	19206.6	18725.9	16623.9	9219.3	4052.1	1874.2	1097.1	891.0	733.8	645.2	585.6
37.5°	20497.1	19898.8	17665.0	9096.4	3851.4	1789.3	1004.9	845.8	685.0	594.6	531.4
40°	21924.9	21248.9	18664.4	8919.2	3654.4	1760.4	934.4	811.5	647.0	554.9	489.8
42.5°	23428.6	22631.6	19530.2	8733.1	3529.7	1660.9	927.2	777.2	618.1	518.7	453.6
45°	24691.9	23884.0	20419.4	8671.6	3441.2	1552.5	957.9	753.7	598.2	489.8	426.5
47.5°	25698.6	24934.1	21330.3	8809.0	3390.6	1453.1	872.9	784.4	587.4	464.5	403.0
50°	26900.5	26034.8	22613.5	9219.3	3316.5	1353.7	789.8	898.2	587.4	448.2	383.2
52.5°	28407.8	27551.1	24044.9	9855.4	3168.3	1216.3	710.3	900.1	592.8	426.5	357.9
55°	30303.7	29682.0	26089.0	10553.1	2931.5	1013.9	614.5	773.5	571.1	386.8	334.4
57.5°	32121.9	31614.0	27952.4	11030.2	2615.2	791.6	535.0	623.5	522.3	339.8	298.2
59°	32618.9	32064.1	28635.5	11051.9	2378.5	690.4	495.2	515.1	511.5	318.1	276.5
60°	32618.9	32029.7	28832.5	10936.2	2206.8	634.4	469.9	459.1	533.2	303.6	263.9
62.5°	32027.9	31200.2	28192.7	10153.7	1800.1	540.4	410.3	379.5	478.9	272.9	233.1
65°	30798.9	29593.4	26013.1	8738.5	1604.9	495.2	354.2	310.9	332.6	240.4	204.2
67.5°	28749.4	27115.6	22870.1	7059.5	1527.2	482.6	305.4	263.9	251.2	206.0	178.9
70°	25140.1	23327.4	19054.8	5550.4	1460.3	477.1	256.6	222.3	202.4	173.5	151.8
72.5°	18297.5	16407.1	13528.0	4339.4	1420.6	488.0	206.0	186.2	166.3	135.6	117.5
75°	10466.3	9228.3	7603.5	2866.4	1210.9	466.3	159.0	155.4	119.3	97.6	81.3
77.5°	5407.6	5243.1	4556.3	1100.7	580.2	204.2	104.8	90.4	70.5	59.6	48.8
80°	2333.3	2308.0	1997.1	318.1	153.6	113.9	59.6	38.0	32.5	25.3	19.9
82.5°	806.1	806.1	710.3	106.6	68.7	56.0	7.2	0.0	0.0	0.0	0.0
85°	162.7	182.5	128.3	0.0	23.5	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°	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3
2.5°	10838.6	10619.9	10605.5	10468.1	10296.4	10218.7	10173.5	10253.1	10350.7	10361.5	10507.9
5°	8413.2	8183.6	8279.4	8035.4	8084.2	8035.4	7955.9	7970.4	8013.8	7878.2	8046.3
7.5°	5908.2	5734.7	5844.9	5779.9	5866.6	5901.0	5852.2	5779.9	5566.6	5541.3	5687.7
10°	4453.3	4256.3	4138.8	4015.9	4043.0	4099.1	4081.0	4028.6	3893.0	3900.2	4041.2
12.5°	3578.5	3358.0	3124.9	2823.1	2749.0	2790.5	2749.0	2718.2	2588.1	2599.0	2723.7
15°	2714.6	2533.9	2289.9	2047.7	1915.8	1928.4	1812.8	1731.4	1650.1	1552.5	1628.4
17.5°	1832.6	1722.4	1650.1	1577.8	1420.6	1384.4	1238.0	1080.8	1019.3	974.2	1006.7
20°	1297.7	1238.0	1209.1	1205.5	1115.1	1069.9	927.2	829.6	798.8	789.8	809.7
22.5°	1084.4	1041.0	999.5	976.0	930.8	878.4	769.9	721.1	699.4	688.6	703.1
25°	943.4	910.9	867.5	827.8	809.7	753.7	675.9	639.8	625.3	614.5	621.7
27.5°	838.6	809.7	759.1	733.8	719.3	670.5	603.7	574.7	562.1	558.5	556.7
30°	755.5	728.4	681.4	652.5	627.1	583.8	544.0	515.1	502.4	498.8	495.2
32.5°	672.3	650.6	619.9	591.0	563.9	524.1	489.8	466.3	446.4	442.8	441.0
35°	567.5	545.8	529.6	527.7	502.4	464.5	439.2	408.5	392.2	386.8	388.6
37.5°	504.2	475.3	439.2	451.8	444.6	417.5	383.2	352.4	336.2	332.6	332.6
40°	464.5	433.8	392.2	370.5	392.2	386.8	332.6	301.8	285.6	283.8	280.1
42.5°	426.5	395.8	348.8	312.7	323.5	339.8	287.4	258.5	242.2	238.6	233.1
45°	399.4	366.9	314.5	272.9	251.2	285.6	245.8	209.7	200.6	193.4	189.8
47.5°	374.1	343.4	283.8	236.8	200.6	206.0	197.0	171.7	160.9	153.6	151.8
50°	352.4	319.9	256.6	202.4	166.3	151.8	159.0	135.6	126.5	119.3	115.7
52.5°	327.1	296.4	227.7	175.3	139.2	119.3	121.1	106.6	97.6	92.2	90.4
55°	307.2	276.5	204.2	153.6	122.9	97.6	86.8	83.1	77.7	74.1	72.3
57.5°	280.1	251.2	180.7	130.1	104.8	79.5	66.9	66.9	65.1	61.4	59.6
59°	263.9	238.6	166.3	117.5	95.8	68.7	59.6	61.4	59.6	56.0	54.2
60°	251.2	227.7	155.4	108.4	90.4	63.3	54.2	57.8	56.0	52.4	50.6
62.5°	222.3	206.0	133.7	90.4	79.5	50.6	45.2	48.8	48.8	47.0	45.2
65°	195.2	177.1	113.9	75.9	74.1	43.4	36.1	43.4	45.2	41.6	38.0
67.5°	169.9	151.8	99.4	61.4	68.7	34.3	27.1	36.1	48.8	38.0	34.3
70°	144.6	126.5	77.7	48.8	72.3	23.5	21.7	32.5	57.8	41.6	32.5
72.5°	112.1	97.6	54.2	36.1	77.7	16.3	16.3	27.1	65.1	45.2	30.7
75°	77.7	63.3	32.5	21.7	63.3	10.8	10.8	25.3	61.4	41.6	28.9
77.5°	45.2	34.3	10.8	1.8	32.5	0.0	1.8	18.1	43.4	25.3	12.7
80°	16.3	7.2	0.0	0.0	19.9	0.0	0.0	0.0	3.6	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°	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3
2.5°	10545.8	10789.8	11008.5	11339.3	11731.5	12183.3	12571.9	12989.4	13381.6	13544.2	13656.3
5°	8080.6	8382.5	8734.9	9221.1	9868.1	10665.1	11411.6	12255.6	13162.9	13616.5	14043.1
7.5°	5713.0	6020.3	6457.6	6974.5	7757.1	8706.0	9681.9	10847.7	12076.7	12794.2	13500.9
10°	4108.1	4485.8	4894.3	5601.0	6396.2	7296.2	8301.1	9602.4	10972.4	11767.6	12618.9
12.5°	2796.0	3226.1	3844.2	4635.8	5570.2	6452.2	7325.2	8566.8	10157.3	10945.3	11858.0
15°	1677.2	1915.8	2570.0	3486.4	4632.2	5731.1	6687.2	7932.4	9627.7	10592.8	11541.7
17.5°	1033.8	1144.0	1500.1	2251.9	3455.6	4845.5	6155.8	7717.4	9703.6	10878.4	11894.1
20°	824.1	867.5	981.4	1330.2	2289.9	3869.5	5557.6	7674.0	10323.5	11769.4	12859.2
22.5°	715.7	757.3	833.2	966.9	1440.5	2897.2	4990.1	7713.7	11212.8	13105.0	14377.4
25°	630.8	666.9	739.2	849.5	1055.5	2040.5	4382.8	7890.9	12371.3	14762.4	16114.3
27.5°	563.9	594.6	661.5	762.7	905.5	1424.2	3694.2	8105.9	13744.8	16457.7	17791.5
30°	502.4	529.6	589.2	683.2	786.2	1095.2	2938.7	8252.3	15120.2	17791.5	18989.8
32.5°	450.0	469.9	524.1	603.7	683.2	872.9	2233.9	8228.8	16141.4	18901.2	19851.9
35°	395.8	415.7	462.7	531.4	594.6	721.1	1756.7	7789.6	17030.6	20052.5	20838.7
37.5°	336.2	361.5	406.7	468.1	511.5	634.4	1420.6	7260.1	17932.5	21368.2	21939.3
40°	285.6	310.9	350.6	417.5	444.6	601.8	1091.6	6614.9	18946.4	22839.4	23146.6
42.5°	236.8	260.3	301.8	359.7	419.3	518.7	807.9	5877.5	19920.5	24097.3	24247.3
45°	191.6	215.1	258.5	316.3	448.2	430.1	625.3	5087.7	20706.7	25143.8	25192.6
47.5°	151.8	173.5	218.7	298.2	417.5	343.4	446.4	4467.8	21366.4	25960.7	25832.4
50°	117.5	135.6	182.5	341.6	365.1	283.8	338.0	4261.7	21957.4	26466.7	26134.2
52.5°	92.2	108.4	150.0	319.9	283.8	235.0	283.8	4455.1	22767.1	26886.0	26304.1
55°	74.1	90.4	117.5	182.5	193.4	198.8	242.2	4635.8	24164.2	27869.2	27307.1
57.5°	61.4	77.7	95.8	128.3	146.4	168.1	215.1	4655.7	25810.7	29503.1	28971.7
59°	56.0	70.5	86.8	113.9	128.3	153.6	202.4	4547.3	26390.8	30097.7	29832.0
60°	52.4	66.9	81.3	104.8	119.3	144.6	195.2	4444.3	26416.1	30076.0	30198.9
62.5°	45.2	59.6	72.3	88.6	101.2	122.9	175.3	4062.9	25346.2	29091.0	29978.4
65°	39.8	52.4	65.1	75.9	86.8	110.2	159.0	3367.1	23519.0	27502.3	28469.3
67.5°	36.1	45.2	59.6	66.9	77.7	97.6	141.0	2400.2	21236.3	25559.4	26186.6
70°	32.5	43.4	54.2	61.4	70.5	84.9	121.1	1379.0	17932.5	22714.7	23161.1
72.5°	30.7	41.6	48.8	57.8	63.3	75.9	110.2	648.8	13130.3	18196.3	19362.1
75°	27.1	38.0	45.2	54.2	59.6	68.7	94.0	310.9	8733.1	13168.3	14493.1
77.5°	16.3	30.7	41.6	48.8	52.4	59.6	77.7	178.9	5573.8	9114.4	10735.6
80°	0.0	10.8	30.7	41.6	45.2	50.6	59.6	141.0	2982.1	5207.0	6249.8
82.5°	0.0	0.0	21.7	32.5	30.7	34.3	45.2	88.6	1344.7	3403.2	3835.2
85°	0.0	0.0	7.2	25.3	21.7	16.3	30.7	30.7	294.6	1722.4	2148.9
87.5°	0.0	0.0	0.0	1.8	10.8	7.2	12.7	3.6	1.8	128.3	520.5
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: P324614

CATALOG NUMBER: GLEON-SA0C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3	12427.3
2.5°	14048.5	14182.2	14408.1	14514.8	14462.4	14240.1	13974.4	13703.3	13544.2	13607.5
5°	14912.4	15601.0	15998.6	16130.5	15910.0	15411.2	14758.8	13898.5	13593.0	13509.9
7.5°	14912.4	16208.3	17028.8	17173.4	16681.8	15704.0	14480.4	13137.6	12691.2	12528.5
10°	14388.3	16152.2	17296.3	17525.8	16839.0	15376.9	13737.6	12205.0	11675.4	11507.4
12.5°	13797.3	15696.8	16902.3	17218.6	16654.7	15051.6	13222.5	11574.2	10950.7	10804.3
15°	13434.0	15136.5	16134.2	16363.7	16125.1	14861.8	13099.6	11384.5	10650.7	10509.7
17.5°	13564.1	14702.7	15062.4	15196.1	15357.0	14794.9	13434.0	11800.1	10871.2	10737.4
20°	14053.9	14245.5	14059.3	14227.4	14661.2	14860.0	14231.0	12805.0	11689.9	11511.0
22.5°	14885.3	14008.7	13486.4	13553.3	14081.0	15075.0	15449.2	14240.1	12953.2	12729.1
25°	15854.0	14200.3	13168.3	13108.7	13650.9	15358.8	16562.5	15801.6	14447.9	14200.3
27.5°	17072.2	14630.4	13103.2	13043.6	13500.9	15624.5	17487.9	17345.1	16022.1	15599.2
30°	18012.0	15053.4	13296.6	13159.3	13650.9	15808.8	18230.7	18655.4	17276.4	16996.3
32.5°	18686.1	15552.2	13611.1	13412.3	14073.8	16126.9	18803.6	19855.5	18436.7	18012.0
35°	19199.4	16094.4	14119.0	13791.8	14655.7	16609.5	19340.4	21133.3	19671.1	19206.6
37.5°	19680.2	16855.3	14912.4	14522.0	15568.5	17386.6	19907.9	22582.8	21051.9	20497.1
40°	20350.7	17717.4	16136.0	15789.0	17102.9	18445.7	20616.4	24093.7	22622.5	21924.9
42.5°	21021.2	18642.7	17388.4	17482.4	19016.9	19732.6	21530.9	25691.4	24173.2	23428.6
45°	21633.9	19597.0	19172.3	19606.1	20793.5	21144.1	22440.0	26614.9	25411.2	24691.9
47.5°	22179.7	20789.9	20945.3	22100.2	22814.1	22421.9	23119.5	27412.0	26333.0	25698.6
50°	22814.1	22333.3	23282.2	24916.0	25140.1	23578.6	23737.6	28355.4	27410.2	26900.5
52.5°	23508.1	23959.9	25870.3	27310.8	27238.5	24834.7	24359.4	29412.7	28886.8	28407.8
55°	24296.1	25273.9	28149.4	29551.9	29490.4	26237.2	25389.6	30719.4	30737.5	30303.7
57.5°	25465.5	26405.3	29696.5	31364.6	31467.7	27856.6	27135.5	32183.4	32411.1	32121.9
59°	26304.1	27139.1	30309.1	32121.9	32541.2	29109.1	28411.4	33032.8	32882.8	32618.9
60°	26925.8	27605.4	30612.8	32517.7	33164.7	29958.5	29353.1	33531.6	32938.8	32618.9
62.5°	28463.8	28621.1	31160.4	32965.9	33882.3	31845.4	32002.6	34381.1	32550.3	32027.9
65°	29181.4	29262.7	31153.2	32163.5	33188.2	33314.8	34406.4	34406.4	31601.4	30798.9
67.5°	28881.3	28489.2	29607.9	29503.1	30526.0	32441.8	35310.1	33144.9	29786.8	28749.4
70°	26441.4	24932.3	24435.3	24480.5	25263.0	28218.0	33520.8	29432.6	26352.9	25140.1
72.5°	22000.8	18380.7	17153.5	18554.2	18758.4	21686.3	28566.9	22165.3	19434.4	18297.5
75°	17695.7	12956.8	10961.5	12439.9	12787.0	15870.3	22098.4	13804.5	11351.9	10466.3
77.5°	12712.9	9300.6	7865.6	7762.5	8210.8	10065.1	15680.5	6947.4	5794.3	5407.6
80°	7222.1	6121.5	6591.4	6219.1	6445.0	6293.2	7449.9	3047.2	2495.9	2333.3
82.5°	4359.3	3618.3	3918.3	3262.3	4128.0	3594.8	2870.1	976.0	847.6	806.1
85°	2835.7	1977.2	1030.2	690.4	1422.4	2297.1	641.6	265.7	204.2	162.7
87.5°	977.8	504.2	50.6	21.7	151.8	428.3	23.5	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)