

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: P324593

Luminaire Tested: **GLEON-SA9A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324593
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-SA9A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 22703 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

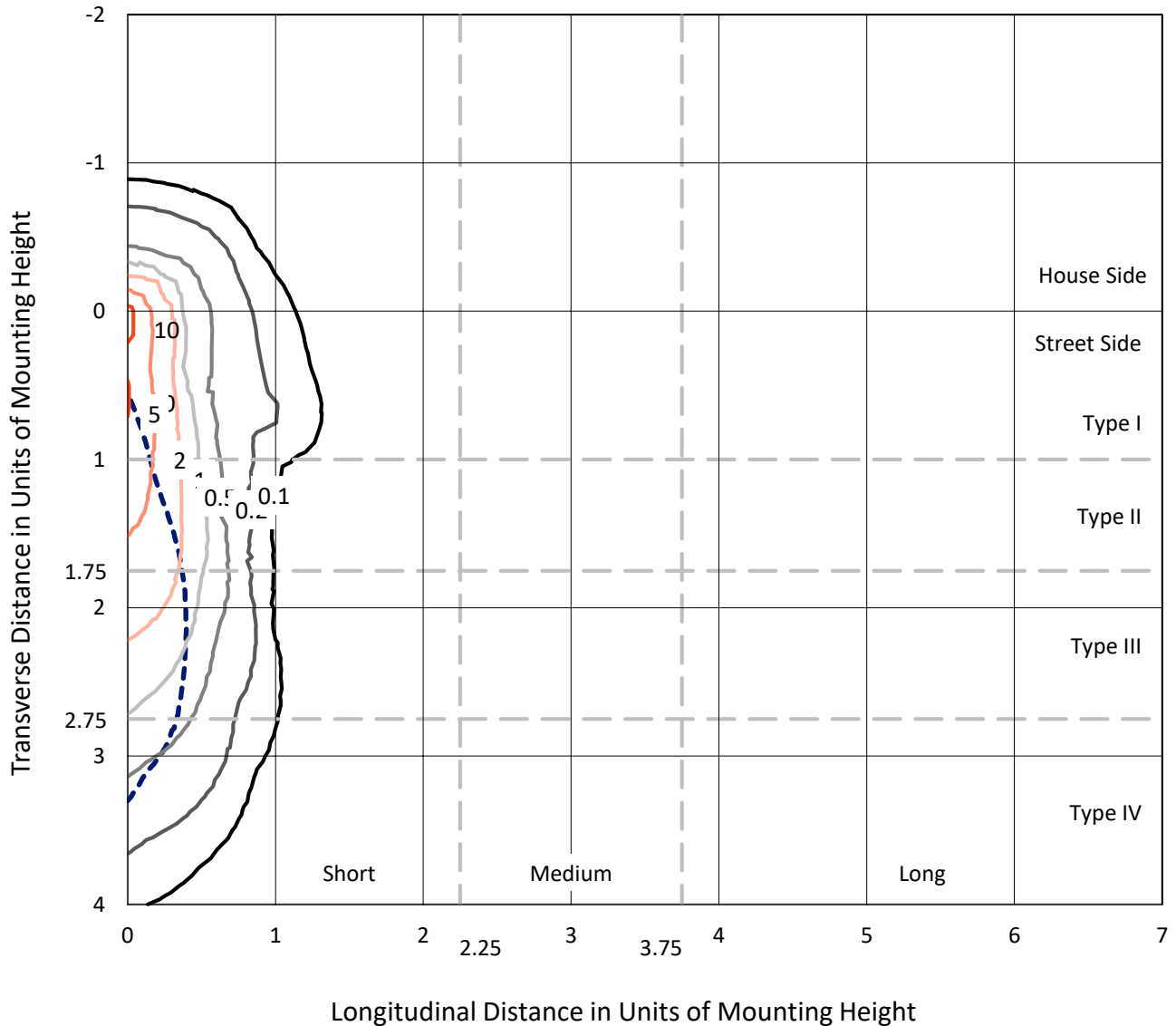
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

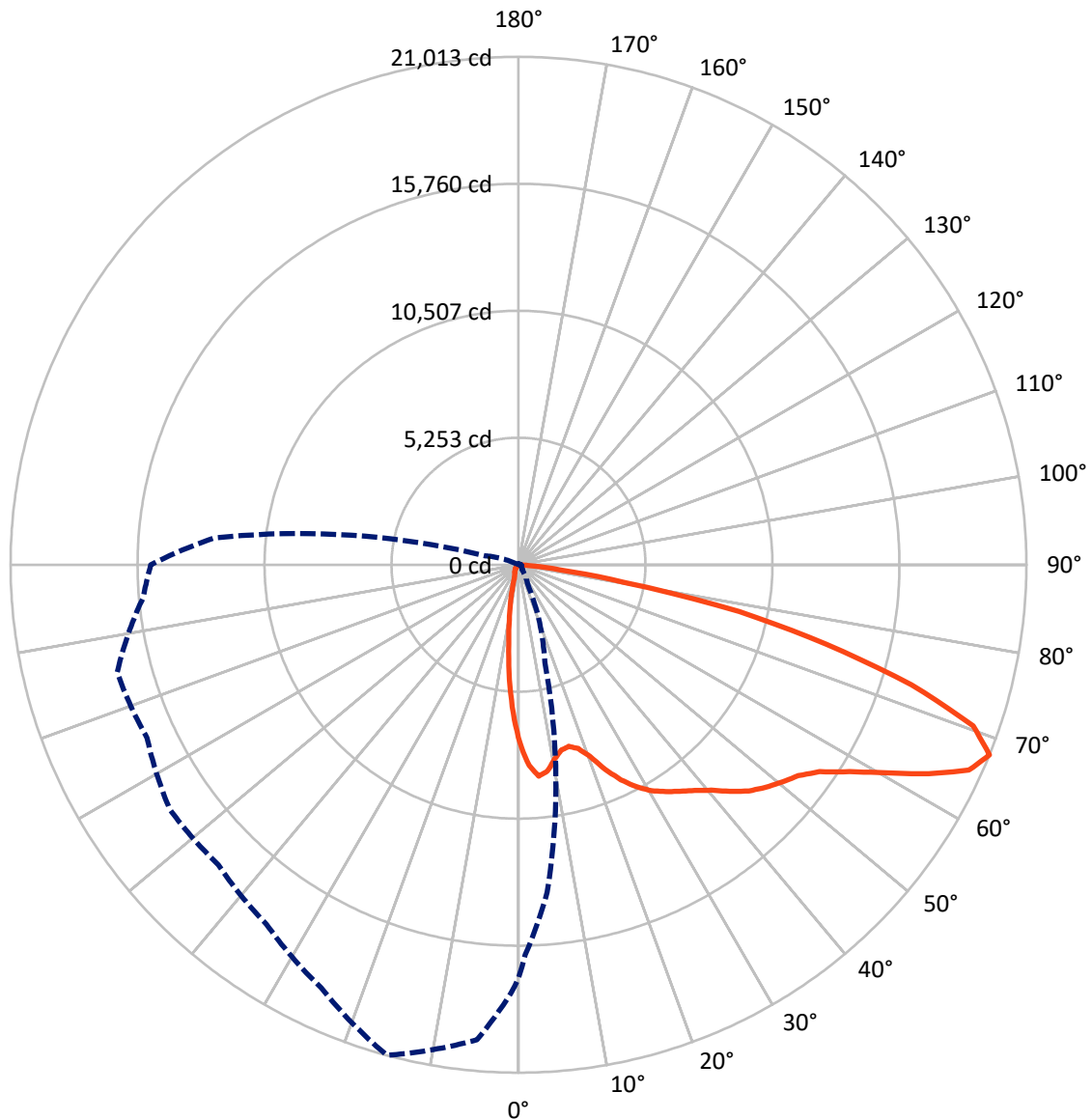
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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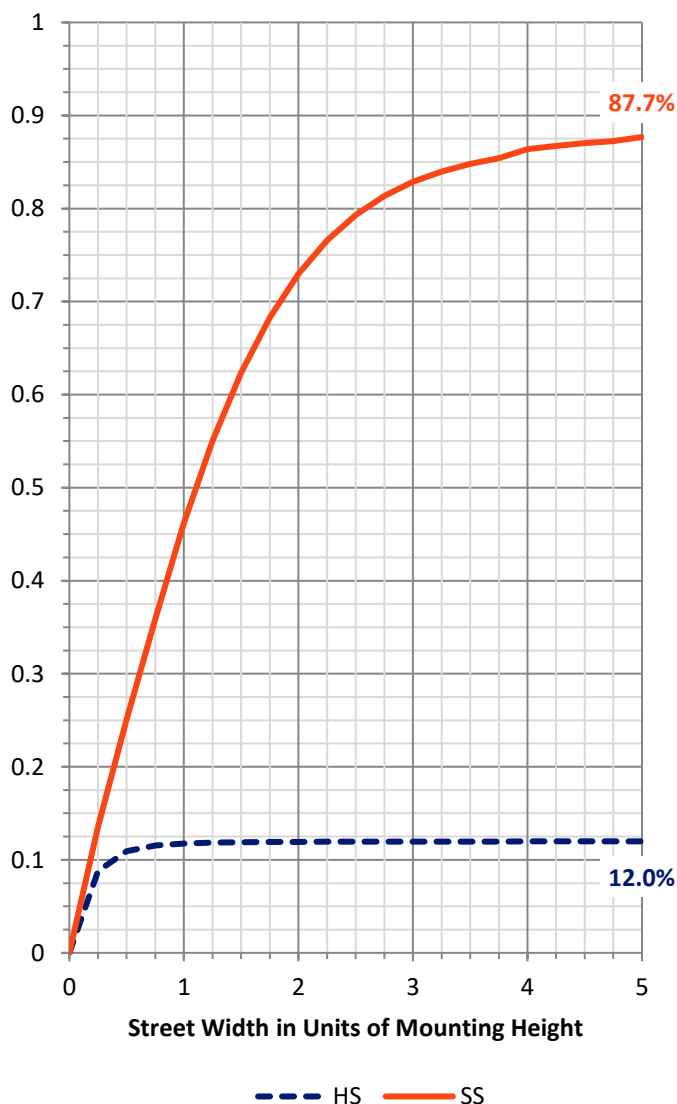
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.8	0.0	2747.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	19955.2	0.0	19955.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	22703.0	0.0	22703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	2.5
10°-20°	1129.8	5.0
20°-30°	1604.3	7.1
30°-40°	2369.7	10.4
40°-50°	3417.5	15.1
50°-60°	4797.5	21.1
60°-70°	5592.5	24.6
70°-80°	2859.0	12.6
80°-90°	365.1	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°	22703.0	100.0
0°-180°	22703.0	100.0

Coefficient of Utilization

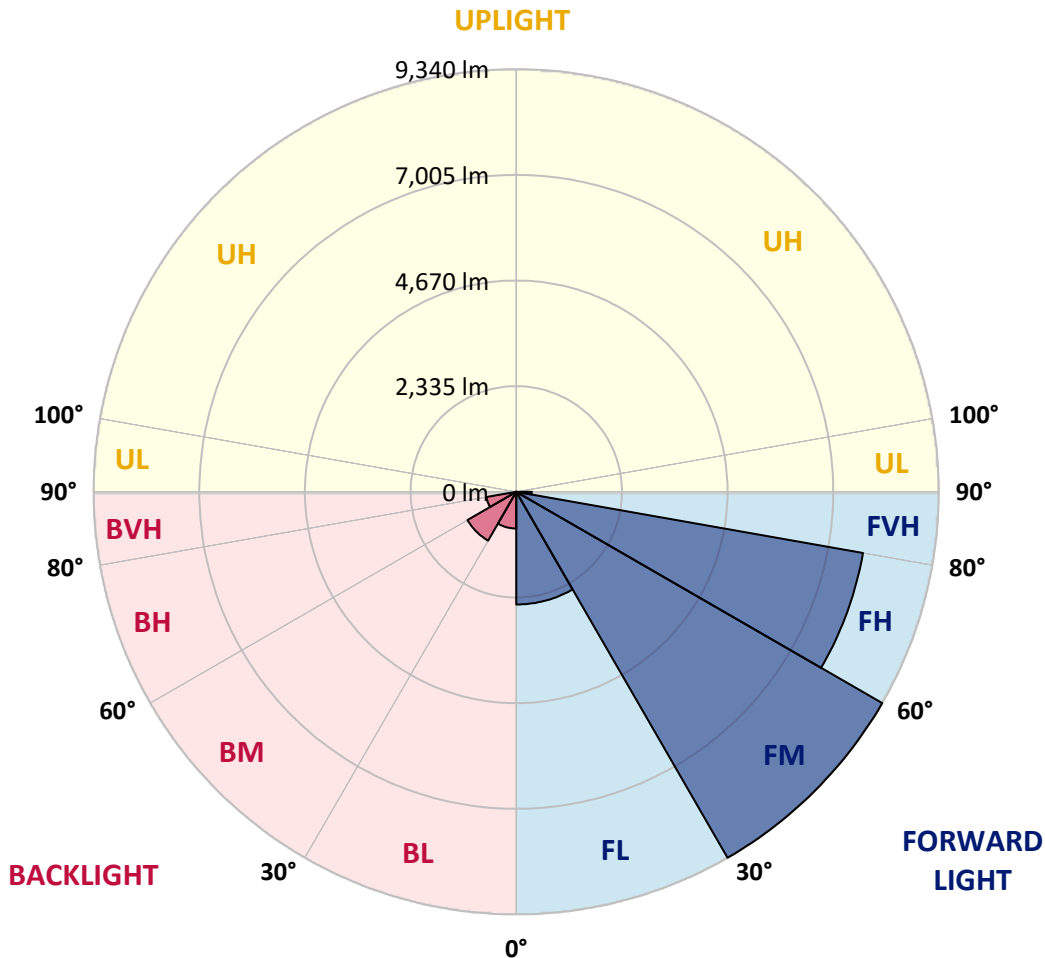


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.1	11.0			
FM (30°-60°)	9340.4	41.1			
FH (60°-80°)	7781.8	34.3			G4/12000
FVH (80°-90°)	342.9	1.5			G3/500
BL (0°-30°)	811.6	3.6	B2/1000		
BM (30°-60°)	1244.3	5.5	B2/2500		
BH (60°-80°)	669.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	22.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	8097.8	8035.4	7966.6	7741.8	7533.1	7294.4	7099.7	6964.2	6794.2	6573.7	6517.8
5°	8039.7	7973.0	7756.8	7256.7	6819.0	6393.1	5982.2	5741.3	5442.3	5139.0	5063.7
7.5°	7455.7	7385.8	7073.9	6388.7	5799.3	5184.1	4650.7	4320.5	3982.7	3705.3	3557.9
10°	6848.0	6771.6	6421.0	5589.6	4863.6	4307.6	3916.1	3600.9	3281.5	2984.6	2748.0
12.5°	6429.6	6329.6	5948.8	5006.7	4374.2	3996.7	3631.0	3253.5	2821.2	2502.8	2242.5
15°	6254.3	6140.3	5738.0	4781.9	4201.1	3758.0	3281.5	2817.9	2311.4	1946.7	1708.0
17.5°	6389.8	6241.4	5810.1	4766.8	3983.8	3380.4	2778.1	2233.9	1684.3	1315.4	1145.5
20°	6850.2	6655.5	6108.0	4762.5	3720.3	2931.9	2168.3	1553.1	1110.0	892.7	803.4
22.5°	7575.1	7318.0	6536.1	4796.9	3448.2	2460.9	1566.0	1055.1	833.5	720.6	667.9
25°	8450.6	8152.6	7152.4	4918.5	3209.4	2002.7	1137.9	833.5	703.4	620.6	576.5
27.5°	9283.0	9041.0	7931.1	5093.8	3024.4	1632.7	923.9	706.6	601.2	546.4	510.9
30°	10114.4	9810.1	8730.2	5302.4	2801.8	1382.1	812.0	644.3	538.8	480.8	458.2
32.5°	10718.9	10466.1	9356.2	5453.0	2564.1	1218.6	726.0	589.4	503.4	444.2	410.9
35°	11429.8	11143.7	9892.9	5486.4	2411.4	1115.3	652.9	530.2	436.7	384.0	348.5
37.5°	12197.8	11841.8	10512.4	5413.2	2292.0	1064.8	598.0	503.4	407.6	353.9	316.2
40°	13047.5	12645.2	11107.2	5307.8	2174.8	1047.6	556.1	482.9	385.0	330.2	291.5
42.5°	13942.3	13468.0	11622.4	5197.0	2100.5	988.4	551.8	462.5	367.8	308.7	270.0
45°	14694.1	14213.4	12151.5	5160.5	2047.8	923.9	570.0	448.5	356.0	291.5	253.8
47.5°	15293.2	14838.2	12693.6	5242.2	2017.7	864.7	519.5	466.8	349.6	276.4	239.8
50°	16008.4	15493.3	13457.2	5486.4	1973.6	805.6	470.0	534.5	349.6	266.7	228.0
52.5°	16905.4	16395.6	14309.1	5865.0	1885.4	723.8	422.7	535.6	352.8	253.8	213.0
55°	18033.7	17663.7	15525.5	6280.1	1744.5	603.4	365.7	460.3	339.9	230.2	199.0
57.5°	19115.7	18813.5	16634.4	6564.1	1556.3	471.1	318.4	371.1	310.8	202.2	177.5
59°	19411.5	19081.3	17041.0	6577.0	1415.4	410.9	294.7	306.5	304.4	189.3	164.6
60°	19411.5	19060.8	17158.2	6508.1	1313.2	377.5	279.6	273.2	317.3	180.7	157.0
62.5°	19059.8	18567.2	16777.5	6042.4	1071.2	321.6	244.1	225.9	285.0	162.4	138.7
65°	18328.4	17611.0	15480.3	5200.3	955.1	294.7	210.8	185.0	197.9	143.0	121.5
67.5°	17108.7	16136.4	13610.0	4201.1	908.8	287.2	181.8	157.0	149.5	122.6	106.5
70°	14960.9	13882.1	11339.5	3303.0	869.0	283.9	152.7	132.3	120.5	103.3	90.3
72.5°	10888.8	9763.8	8050.5	2582.4	845.4	290.4	122.6	110.8	99.0	80.7	69.9
75°	6228.5	5491.7	4524.8	1705.8	720.6	277.5	94.6	92.5	71.0	58.1	48.4
77.5°	3218.0	3120.2	2711.5	655.0	345.3	121.5	62.4	53.8	41.9	35.5	29.0
80°	1388.5	1373.5	1188.5	189.3	91.4	67.8	35.5	22.6	19.4	15.1	11.8
82.5°	479.7	479.7	422.7	63.5	40.9	33.3	4.3	0.0	0.0	0.0	0.0
85°	96.8	108.6	76.4	0.0	14.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	6450.1	6319.9	6311.3	6229.6	6127.4	6081.1	6054.3	6101.6	6159.7	6166.1	6253.2
5°	5006.7	4870.1	4927.1	4781.9	4810.9	4781.9	4734.6	4743.2	4769.0	4688.3	4788.3
7.5°	3516.0	3412.7	3478.3	3439.6	3491.2	3511.7	3482.6	3439.6	3312.7	3297.6	3384.7
10°	2650.1	2532.9	2463.0	2389.9	2406.0	2439.3	2428.6	2397.4	2316.7	2321.0	2404.9
12.5°	2129.6	1998.4	1859.6	1680.0	1635.9	1660.6	1635.9	1617.6	1540.2	1546.6	1620.8
15°	1615.5	1507.9	1362.7	1218.6	1140.1	1147.6	1078.8	1030.4	982.0	923.9	969.1
17.5°	1090.6	1025.0	982.0	939.0	845.4	823.9	736.7	643.2	606.6	579.7	599.1
20°	772.2	736.7	719.5	717.4	663.6	636.7	551.8	493.7	475.4	470.0	481.8
22.5°	645.3	619.5	594.8	580.8	553.9	522.7	458.2	429.1	416.2	409.8	418.4
25°	561.4	542.1	516.3	492.6	481.8	448.5	402.3	380.7	372.1	365.7	370.0
27.5°	499.1	481.8	451.7	436.7	428.1	399.0	359.2	342.0	334.5	332.3	331.3
30°	449.6	433.4	405.5	388.3	373.2	347.4	323.7	306.5	299.0	296.9	294.7
32.5°	400.1	387.2	368.9	351.7	335.6	311.9	291.5	277.5	265.7	263.5	262.4
35°	337.7	324.8	315.1	314.1	299.0	276.4	261.4	243.1	233.4	230.2	231.2
37.5°	300.1	282.9	261.4	268.9	264.6	248.5	228.0	209.7	200.1	197.9	197.9
40°	276.4	258.1	233.4	220.5	233.4	230.2	197.9	179.6	169.9	168.9	166.7
42.5°	253.8	235.5	207.6	186.1	192.5	202.2	171.0	153.8	144.1	142.0	138.7
45°	237.7	218.3	187.1	162.4	149.5	169.9	146.3	124.8	119.4	115.1	112.9
47.5°	222.6	204.4	168.9	140.9	119.4	122.6	117.2	102.2	95.7	91.4	90.3
50°	209.7	190.4	152.7	120.5	99.0	90.3	94.6	80.7	75.3	71.0	68.8
52.5°	194.7	176.4	135.5	104.3	82.8	71.0	72.1	63.5	58.1	54.9	53.8
55°	182.8	164.6	121.5	91.4	73.1	58.1	51.6	49.5	46.2	44.1	43.0
57.5°	166.7	149.5	107.6	77.4	62.4	47.3	39.8	39.8	38.7	36.6	35.5
59°	157.0	142.0	99.0	69.9	57.0	40.9	35.5	36.6	35.5	33.3	32.3
60°	149.5	135.5	92.5	64.5	53.8	37.6	32.3	34.4	33.3	31.2	30.1
62.5°	132.3	122.6	79.6	53.8	47.3	30.1	26.9	29.0	29.0	28.0	26.9
65°	116.2	105.4	67.8	45.2	44.1	25.8	21.5	25.8	26.9	24.7	22.6
67.5°	101.1	90.3	59.2	36.6	40.9	20.4	16.1	21.5	29.0	22.6	20.4
70°	86.0	75.3	46.2	29.0	43.0	14.0	12.9	19.4	34.4	24.7	19.4
72.5°	66.7	58.1	32.3	21.5	46.2	9.7	9.7	16.1	38.7	26.9	18.3
75°	46.2	37.6	19.4	12.9	37.6	6.5	6.5	15.1	36.6	24.7	17.2
77.5°	26.9	20.4	6.5	1.1	19.4	0.0	1.1	10.8	25.8	15.1	7.5
80°	9.7	4.3	0.0	0.0	11.8	0.0	0.0	0.0	2.2	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°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	6275.8	6421.0	6551.2	6748.0	6981.4	7250.3	7481.5	7730.0	7963.3	8060.1	8126.8
5°	4808.8	4988.4	5198.1	5487.4	5872.5	6346.8	6791.0	7293.3	7833.2	8103.2	8357.0
7.5°	3399.8	3582.6	3842.9	4150.5	4616.2	5180.9	5761.7	6455.4	7186.8	7613.8	8034.3
10°	2444.7	2669.5	2912.6	3333.1	3806.4	4342.0	4940.0	5714.4	6529.6	7002.9	7509.5
12.5°	1663.9	1919.9	2287.7	2758.8	3314.8	3839.7	4359.2	5098.1	6044.6	6513.5	7056.7
15°	998.1	1140.1	1529.4	2074.7	2756.6	3410.6	3979.5	4720.6	5729.4	6303.8	6868.4
17.5°	615.2	680.8	892.7	1340.1	2056.4	2883.5	3663.3	4592.6	5774.6	6473.7	7078.2
20°	490.4	516.3	584.0	791.6	1362.7	2302.7	3307.3	4566.8	6143.5	7004.0	7652.5
22.5°	425.9	450.7	495.8	575.4	857.2	1724.1	2969.6	4590.4	6672.7	7798.8	8556.0
25°	375.4	396.9	439.9	505.5	628.1	1214.3	2608.2	4695.8	7362.1	8785.1	9589.6
27.5°	335.6	353.9	393.7	453.9	538.8	847.5	2198.4	4823.8	8179.5	9793.9	10587.7
30°	299.0	315.1	350.6	406.6	467.9	651.8	1748.8	4910.9	8998.0	10587.7	11300.8
32.5°	267.8	279.6	311.9	359.2	406.6	519.5	1329.4	4897.0	9605.7	11248.1	11813.8
35°	235.5	247.4	275.3	316.2	353.9	429.1	1045.4	4635.6	10134.9	11933.2	12401.1
37.5°	200.1	215.1	242.0	278.6	304.4	377.5	845.4	4320.5	10671.6	12716.2	13056.1
40°	169.9	185.0	208.7	248.5	264.6	358.2	649.6	3936.5	11275.0	13591.7	13774.5
42.5°	140.9	154.9	179.6	214.0	249.5	308.7	480.8	3497.7	11854.7	14340.3	14429.5
45°	114.0	128.0	153.8	188.2	266.7	256.0	372.1	3027.7	12322.5	14963.0	14992.0
47.5°	90.3	103.3	130.1	177.5	248.5	204.4	265.7	2658.8	12715.1	15449.2	15372.8
50°	69.9	80.7	108.6	203.3	217.3	168.9	201.1	2536.1	13066.8	15750.3	15552.4
52.5°	54.9	64.5	89.3	190.4	168.9	139.8	168.9	2651.2	13548.7	15999.8	15653.5
55°	44.1	53.8	69.9	108.6	115.1	118.3	144.1	2758.8	14380.1	16584.9	16250.4
57.5°	36.6	46.2	57.0	76.4	87.1	100.0	128.0	2770.6	15359.9	17557.2	17241.0
59°	33.3	41.9	51.6	67.8	76.4	91.4	120.5	2706.1	15705.1	17911.1	17753.0
60°	31.2	39.8	48.4	62.4	71.0	86.0	116.2	2644.8	15720.2	17898.2	17971.3
62.5°	26.9	35.5	43.0	52.7	60.2	73.1	104.3	2417.8	15083.5	17312.0	17840.1
65°	23.7	31.2	38.7	45.2	51.6	65.6	94.6	2003.7	13996.1	16366.6	16942.0
67.5°	21.5	26.9	35.5	39.8	46.2	58.1	83.9	1428.3	12637.7	15210.4	15583.6
70°	19.4	25.8	32.3	36.6	41.9	50.6	72.1	820.6	10671.6	13517.5	13783.1
72.5°	18.3	24.7	29.0	34.4	37.6	45.2	65.6	386.1	7813.8	10828.6	11522.3
75°	16.1	22.6	26.9	32.3	35.5	40.9	55.9	185.0	5197.0	7836.4	8624.8
77.5°	9.7	18.3	24.7	29.0	31.2	35.5	46.2	106.5	3317.0	5424.0	6388.7
80°	0.0	6.5	18.3	24.7	26.9	30.1	35.5	83.9	1774.7	3098.7	3719.2
82.5°	0.0	0.0	12.9	19.4	18.3	20.4	26.9	52.7	800.2	2025.3	2282.3
85°	0.0	0.0	4.3	15.1	12.9	9.7	18.3	18.3	175.3	1025.0	1278.8
87.5°	0.0	0.0	0.0	1.1	6.5	4.3	7.5	2.2	1.1	76.4	309.8
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: P324593

CATALOG NUMBER: GLEON-SA9A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	8360.2	8439.8	8574.3	8637.7	8606.5	8474.2	8316.1	8154.8	8060.1	8097.8
5°	8874.3	9284.1	9520.7	9599.3	9468.0	9171.2	8782.9	8271.0	8089.2	8039.7
7.5°	8874.3	9645.5	10133.8	10219.8	9927.3	9345.4	8617.3	7818.2	7552.5	7455.7
10°	8562.4	9612.2	10293.0	10429.6	10020.9	9150.8	8175.2	7263.2	6948.0	6848.0
12.5°	8210.7	9341.1	10058.5	10246.7	9911.2	8957.2	7868.7	6887.8	6516.7	6429.6
15°	7994.5	9007.7	9601.4	9738.0	9596.0	8844.2	7795.6	6774.9	6338.2	6254.3
17.5°	8072.0	8749.6	8963.6	9043.2	9138.9	8804.4	7994.5	7022.2	6469.4	6389.8
20°	8363.5	8477.5	8366.7	8466.7	8724.8	8843.1	8468.9	7620.2	6956.6	6850.2
22.5°	8858.2	8336.6	8025.7	8065.5	8379.6	8971.1	9193.8	8474.2	7708.4	7575.1
25°	9434.7	8450.6	7836.4	7800.9	8123.6	9140.0	9856.3	9403.5	8597.9	8450.6
27.5°	10159.6	8706.6	7797.7	7762.2	8034.3	9298.1	10407.0	10322.0	9534.7	9283.0
30°	10718.9	8958.2	7912.8	7831.1	8123.6	9407.8	10849.0	11101.8	10281.2	10114.4
32.5°	11120.1	9255.1	8099.9	7981.6	8375.3	9597.1	11190.0	11816.0	10971.7	10718.9
35°	11425.5	9577.7	8402.2	8207.5	8721.6	9884.3	11509.4	12576.4	11706.3	11429.8
37.5°	11711.6	10030.5	8874.3	8642.0	9264.8	10346.8	11847.1	13439.0	12528.0	12197.8
40°	12110.7	10543.6	9602.5	9396.0	10177.9	10977.0	12268.8	14338.1	13462.6	13047.5
42.5°	12509.7	11094.3	10347.8	10403.8	11316.9	11742.8	12813.0	15288.9	14385.4	13942.3
45°	12874.3	11662.2	11409.4	11667.5	12374.2	12582.8	13354.0	15838.5	15122.2	14694.1
47.5°	13199.1	12372.0	12464.5	13151.8	13576.6	13343.2	13758.4	16312.8	15670.7	15293.2
50°	13576.6	13290.5	13855.2	14827.5	14960.9	14031.6	14126.2	16874.3	16311.7	16008.4
52.5°	13989.6	14258.5	15395.4	16252.6	16209.6	14779.1	14496.2	17503.4	17190.5	16905.4
55°	14458.6	15040.4	16751.6	17586.3	17549.7	15613.7	15109.3	18281.1	18291.8	18033.7
57.5°	15154.5	15713.7	17672.3	18665.0	18726.3	16577.4	16148.3	19152.3	19287.8	19115.7
59°	15653.5	16150.4	18036.9	19115.7	19365.2	17322.8	16907.6	19657.8	19568.5	19411.5
60°	16023.5	16427.9	18217.6	19351.2	19736.3	17828.3	17468.0	19954.6	19601.8	19411.5
62.5°	16938.8	17032.4	18543.5	19618.0	20163.3	18951.1	19044.7	20460.1	19370.6	19059.8
65°	17365.8	17414.2	18539.2	19140.4	19750.3	19825.6	20475.2	20475.2	18805.9	18328.4
67.5°	17187.2	16953.8	17619.6	17557.2	18166.0	19306.1	21013.0	19724.5	17726.1	17108.7
70°	15735.3	14837.2	14541.4	14568.3	15034.0	16792.5	19948.2	17515.3	15682.5	14960.9
72.5°	13092.6	10938.3	10208.0	11041.6	11163.1	12905.5	17000.1	13190.5	11565.4	10888.8
75°	10530.7	7710.6	6523.2	7403.0	7609.5	9444.4	13150.7	8215.0	6755.5	6228.5
77.5°	7565.4	5534.8	4680.8	4619.5	4886.2	5989.7	9331.4	4134.4	3448.2	3218.0
80°	4297.9	3642.9	3922.5	3701.0	3835.4	3745.1	4433.4	1813.4	1485.3	1388.5
82.5°	2594.2	2153.2	2331.8	1941.4	2456.5	2139.3	1708.0	580.8	504.4	479.7
85°	1687.5	1176.6	613.1	410.9	846.5	1367.0	381.8	158.1	121.5	96.8
87.5°	581.9	300.1	30.1	12.9	90.3	254.9	14.0	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

(END OF REPORT)