

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: P324589

Luminaire Tested: **GLEON-SA5A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324589
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-SA5A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 12692 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

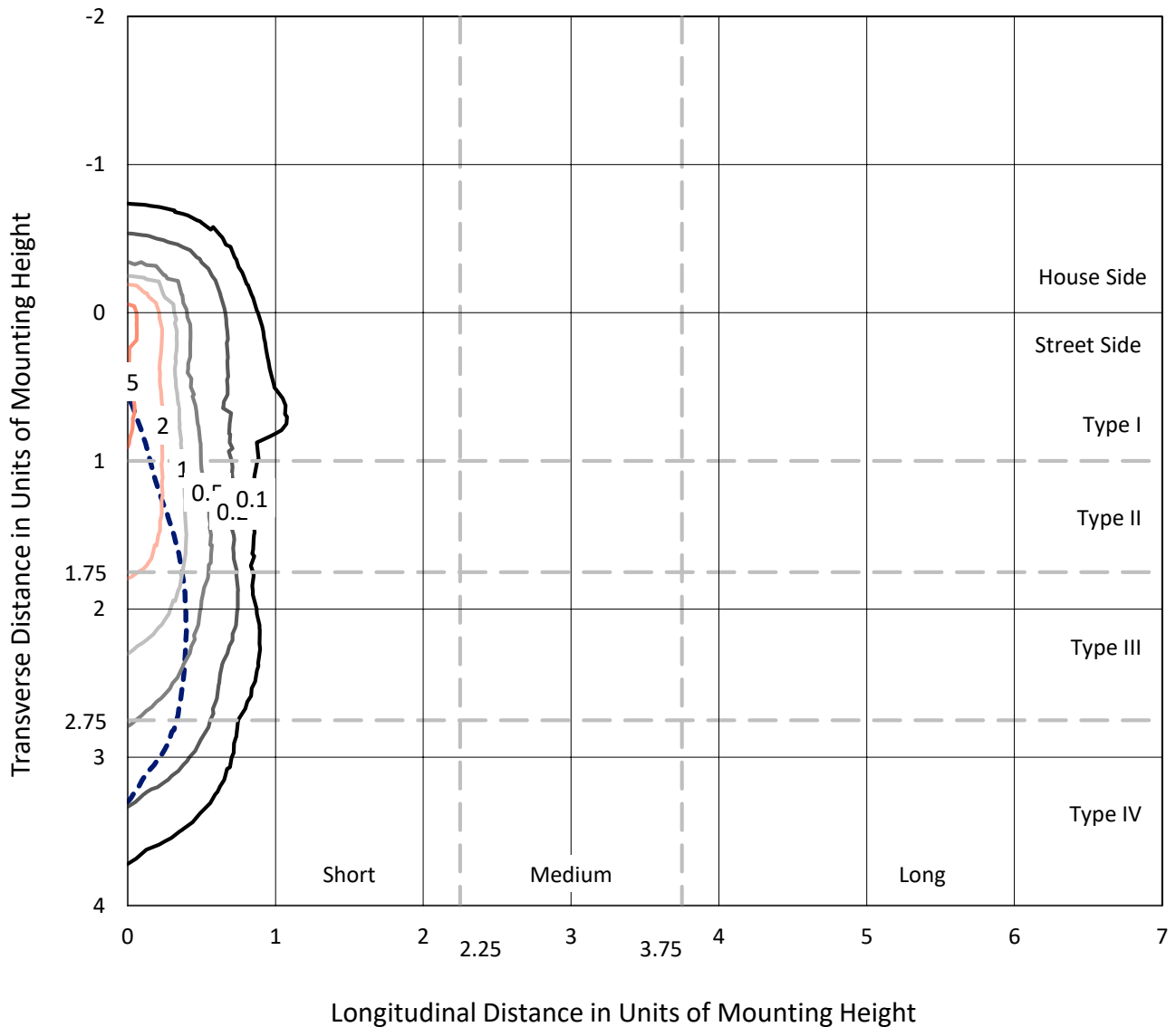
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

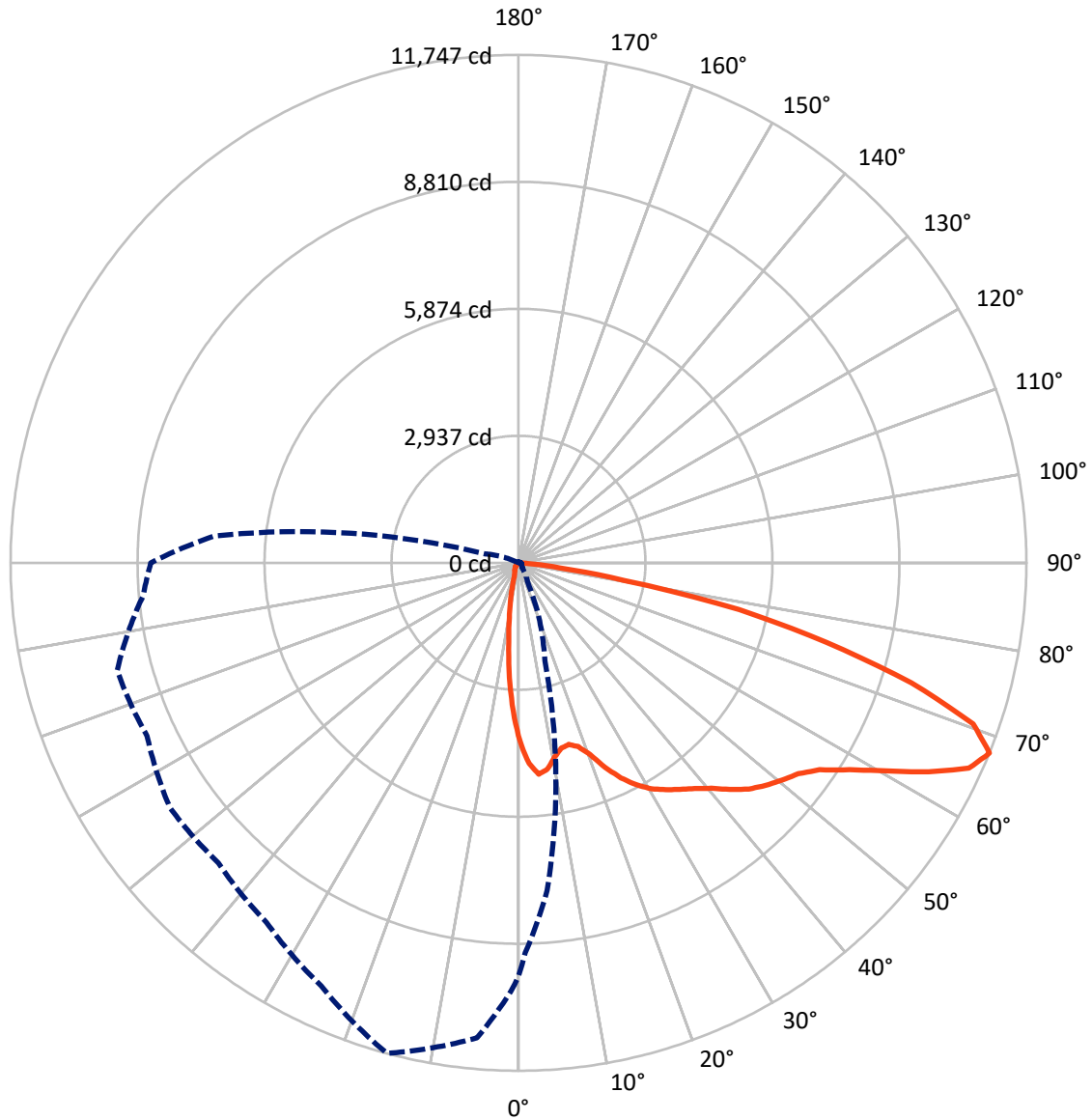
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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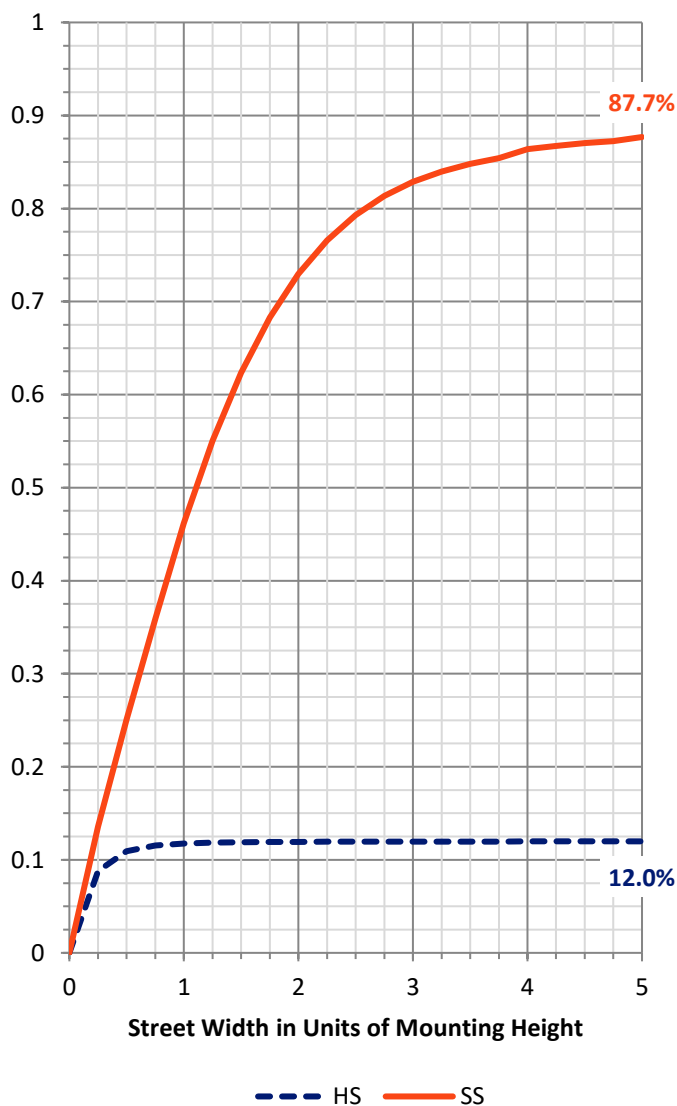
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.1	0.0	1536.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11155.9	0.0	11155.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	12692.0	0.0	12692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	2.5
10°-20°	631.6	5.0
20°-30°	896.9	7.1
30°-40°	1324.7	10.4
40°-50°	1910.6	15.1
50°-60°	2682.0	21.1
60°-70°	3126.5	24.6
70°-80°	1598.3	12.6
80°-90°	204.1	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°	12692.0	100.0
0°-180°	12692.0	100.0

Coefficient of Utilization

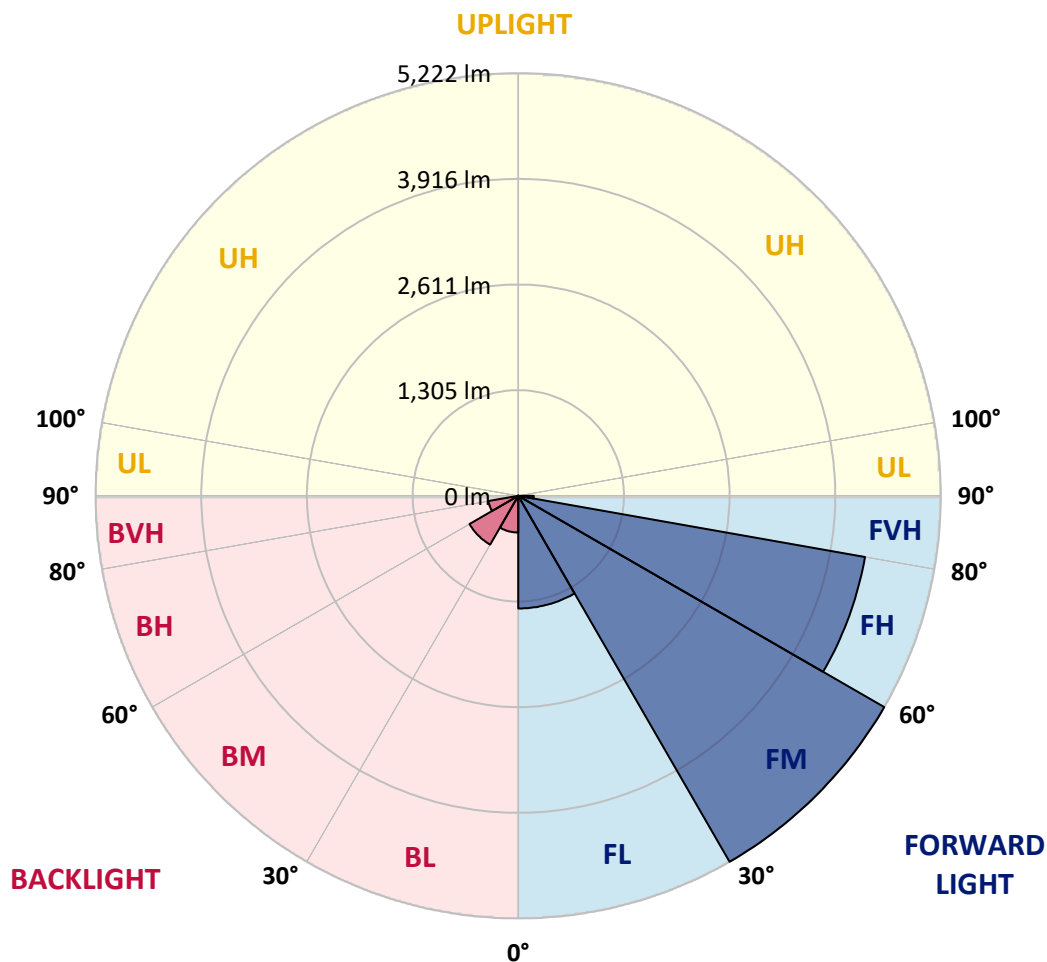


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.1	11.0			
FM (30°-60°)	5221.7	41.1			
FH (60°-80°)	4350.4	34.3			G2/5000
FVH (80°-90°)	191.7	1.5			G2/225
BL (0°-30°)	453.7	3.6	B1/500		
BM (30°-60°)	695.6	5.5	B1/1000		
BH (60°-80°)	374.4	2.9	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4
2.5°	4527.0	4492.2	4453.7	4328.0	4211.4	4077.9	3969.0	3893.3	3798.3	3675.0	3643.8
5°	4494.6	4457.3	4336.4	4056.8	3812.1	3574.0	3344.3	3209.6	3042.5	2872.9	2830.8
7.5°	4168.1	4129.0	3954.6	3571.6	3242.1	2898.2	2599.9	2415.3	2226.5	2071.4	1989.0
10°	3828.3	3785.7	3589.6	3124.8	2719.0	2408.1	2189.3	2013.1	1834.5	1668.5	1536.3
12.5°	3594.4	3538.5	3325.7	2799.0	2445.4	2234.4	2029.9	1818.9	1577.2	1399.2	1253.7
15°	3496.4	3432.7	3207.8	2673.3	2348.6	2100.9	1834.5	1575.4	1292.1	1088.3	954.8
17.5°	3572.2	3489.2	3248.1	2664.9	2227.1	1889.8	1553.1	1248.9	941.6	735.4	640.4
20°	3829.5	3720.7	3414.7	2662.5	2079.8	1639.1	1212.2	868.2	620.5	499.1	449.2
22.5°	4234.8	4091.1	3654.0	2681.7	1927.7	1375.7	875.5	589.9	466.0	402.9	373.4
25°	4724.3	4557.7	3998.5	2749.6	1794.2	1119.6	636.2	466.0	393.2	346.9	322.3
27.5°	5189.6	5054.4	4433.8	2847.7	1690.8	912.7	516.5	395.0	336.1	305.4	285.6
30°	5654.4	5484.3	4880.6	2964.3	1566.3	772.6	454.0	360.2	301.2	268.8	256.1
32.5°	5992.3	5851.0	5230.5	3048.5	1433.4	681.2	405.9	329.5	281.4	248.3	229.7
35°	6389.8	6229.9	5530.6	3067.1	1348.1	623.5	365.0	296.4	244.1	214.7	194.8
37.5°	6819.1	6620.1	5876.9	3026.2	1281.3	595.3	334.3	281.4	227.9	197.8	176.8
40°	7294.1	7069.2	6209.4	2967.3	1215.8	585.6	310.9	270.0	215.3	184.6	162.9
42.5°	7794.4	7529.2	6497.4	2905.4	1174.3	552.6	308.5	258.6	205.6	172.6	150.9
45°	8214.7	7945.9	6793.3	2884.9	1144.8	516.5	318.7	250.7	199.0	162.9	141.9
47.5°	8549.6	8295.2	7096.3	2930.6	1128.0	483.4	290.4	261.0	195.4	154.5	134.1
50°	8949.4	8661.4	7523.2	3067.1	1103.3	450.4	262.8	298.8	195.4	149.1	127.5
52.5°	9450.9	9165.9	7999.4	3278.8	1054.0	404.7	236.3	299.4	197.2	141.9	119.1
55°	10081.6	9874.8	8679.5	3510.9	975.3	337.3	204.4	257.3	190.0	128.7	111.2
57.5°	10686.5	10517.6	9299.4	3669.6	870.1	263.4	178.0	207.4	173.8	113.0	99.2
59°	10851.9	10667.3	9526.7	3676.8	791.3	229.7	164.8	171.4	170.2	105.8	92.0
60°	10851.9	10655.9	9592.2	3638.3	734.2	211.0	156.3	152.7	177.4	101.0	87.8
62.5°	10655.3	10379.9	9379.4	3378.0	598.9	179.8	136.5	126.3	159.3	90.8	77.6
65°	10246.4	9845.3	8654.2	2907.2	533.9	164.8	117.9	103.4	110.6	80.0	67.9
67.5°	9564.5	9021.0	7608.6	2348.6	508.1	160.5	101.6	87.8	83.6	68.5	59.5
70°	8363.8	7760.7	6339.3	1846.5	485.8	158.7	85.4	74.0	67.3	57.7	50.5
72.5°	6087.4	5458.4	4500.6	1443.7	472.6	162.3	68.5	61.9	55.3	45.1	39.1
75°	3482.0	3070.1	2529.6	953.6	402.9	155.1	52.9	51.7	39.7	32.5	27.1
77.5°	1799.0	1744.3	1515.8	366.2	193.0	67.9	34.9	30.1	23.4	19.8	16.2
80°	776.3	767.8	664.4	105.8	51.1	37.9	19.8	12.6	10.8	8.4	6.6
82.5°	268.2	268.2	236.3	35.5	22.8	18.6	2.4	0.0	0.0	0.0	0.0
85°	54.1	60.7	42.7	0.0	7.8	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°	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4
2.5°	3605.9	3533.1	3528.3	3482.6	3425.5	3399.6	3384.6	3411.1	3443.5	3447.1	3495.8
5°	2799.0	2722.6	2754.5	2673.3	2689.5	2673.3	2646.8	2651.6	2666.1	2621.0	2676.9
7.5°	1965.6	1907.9	1944.5	1922.9	1951.8	1963.2	1946.9	1922.9	1851.9	1843.5	1892.2
10°	1481.6	1416.0	1376.9	1336.0	1345.1	1363.7	1357.7	1340.3	1295.2	1297.6	1344.5
12.5°	1190.5	1117.2	1039.6	939.2	914.5	928.4	914.5	904.3	861.0	864.6	906.1
15°	903.1	843.0	761.8	681.2	637.4	641.6	603.1	576.0	549.0	516.5	541.8
17.5°	609.7	573.0	549.0	524.9	472.6	460.6	411.9	359.6	339.1	324.1	334.9
20°	431.7	411.9	402.3	401.1	371.0	356.0	308.5	276.0	265.8	262.8	269.4
22.5°	360.8	346.3	332.5	324.7	309.7	292.2	256.1	239.9	232.7	229.1	233.9
25°	313.9	303.0	288.6	275.4	269.4	250.7	224.9	212.9	208.0	204.4	206.8
27.5°	279.0	269.4	252.5	244.1	239.3	223.1	200.8	191.2	187.0	185.8	185.2
30°	251.3	242.3	226.7	217.1	208.6	194.2	181.0	171.4	167.2	166.0	164.8
32.5°	223.7	216.5	206.2	196.6	187.6	174.4	162.9	155.1	148.5	147.3	146.7
35°	188.8	181.6	176.2	175.6	167.2	154.5	146.1	135.9	130.5	128.7	129.3
37.5°	167.8	158.1	146.1	150.3	147.9	138.9	127.5	117.2	111.8	110.6	110.6
40°	154.5	144.3	130.5	123.3	130.5	128.7	110.6	100.4	95.0	94.4	93.2
42.5°	141.9	131.7	116.0	104.0	107.6	113.0	95.6	86.0	80.6	79.4	77.6
45°	132.9	122.1	104.6	90.8	83.6	95.0	81.8	69.7	66.7	64.3	63.1
47.5°	124.5	114.2	94.4	78.8	66.7	68.5	65.5	57.1	53.5	51.1	50.5
50°	117.2	106.4	85.4	67.3	55.3	50.5	52.9	45.1	42.1	39.7	38.5
52.5°	108.8	98.6	75.8	58.3	46.3	39.7	40.3	35.5	32.5	30.7	30.1
55°	102.2	92.0	67.9	51.1	40.9	32.5	28.9	27.7	25.9	24.7	24.1
57.5°	93.2	83.6	60.1	43.3	34.9	26.5	22.2	22.2	21.6	20.4	19.8
59°	87.8	79.4	55.3	39.1	31.9	22.8	19.8	20.4	19.8	18.6	18.0
60°	83.6	75.8	51.7	36.1	30.1	21.0	18.0	19.2	18.6	17.4	16.8
62.5°	74.0	68.5	44.5	30.1	26.5	16.8	15.0	16.2	16.2	15.6	15.0
65°	64.9	58.9	37.9	25.3	24.7	14.4	12.0	14.4	15.0	13.8	12.6
67.5°	56.5	50.5	33.1	20.4	22.8	11.4	9.0	12.0	16.2	12.6	11.4
70°	48.1	42.1	25.9	16.2	24.1	7.8	7.2	10.8	19.2	13.8	10.8
72.5°	37.3	32.5	18.0	12.0	25.9	5.4	5.4	9.0	21.6	15.0	10.2
75°	25.9	21.0	10.8	7.2	21.0	3.6	3.6	8.4	20.4	13.8	9.6
77.5°	15.0	11.4	3.6	0.6	10.8	0.0	0.6	6.0	14.4	8.4	4.2
80°	5.4	2.4	0.0	0.0	6.6	0.0	0.0	0.0	1.2	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°	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4
2.5°	3508.5	3589.6	3662.4	3772.4	3902.9	4053.2	4182.5	4321.4	4451.9	4506.0	4543.3
5°	2688.3	2788.7	2906.0	3067.7	3283.0	3548.1	3796.5	4077.3	4379.1	4530.0	4671.9
7.5°	1900.6	2002.9	2148.4	2320.3	2580.7	2896.4	3221.1	3608.9	4017.7	4256.5	4491.6
10°	1366.7	1492.4	1628.3	1863.4	2127.9	2427.4	2761.7	3194.6	3650.4	3914.9	4198.1
12.5°	930.2	1073.3	1278.9	1542.3	1853.1	2146.6	2437.0	2850.1	3379.2	3641.3	3945.0
15°	558.0	637.4	855.0	1159.9	1541.1	1906.7	2224.7	2639.0	3203.0	3524.1	3839.8
17.5°	343.9	380.6	499.1	749.2	1149.6	1612.0	2048.0	2567.5	3228.3	3619.1	3957.0
20°	274.2	288.6	326.5	442.5	761.8	1287.3	1848.9	2553.0	3434.5	3915.5	4278.1
22.5°	238.1	251.9	277.2	321.7	479.2	963.9	1660.1	2566.3	3730.3	4359.9	4783.2
25°	209.8	221.9	245.9	282.6	351.1	678.8	1458.1	2625.2	4115.8	4911.2	5361.0
27.5°	187.6	197.8	220.1	253.7	301.2	473.8	1229.0	2696.7	4572.7	5475.2	5919.0
30°	167.2	176.2	196.0	227.3	261.6	364.4	977.7	2745.4	5030.3	5919.0	6317.6
32.5°	149.7	156.3	174.4	200.8	227.3	290.4	743.2	2737.6	5370.0	6288.2	6604.5
35°	131.7	138.3	153.9	176.8	197.8	239.9	584.4	2591.5	5665.9	6671.2	6932.7
37.5°	111.8	120.3	135.3	155.7	170.2	211.0	472.6	2415.3	5965.9	7108.9	7298.9
40°	95.0	103.4	116.6	138.9	147.9	200.2	363.2	2200.7	6303.2	7598.4	7700.6
42.5°	78.8	86.6	100.4	119.7	139.5	172.6	268.8	1955.4	6627.3	8016.9	8066.8
45°	63.7	71.6	86.0	105.2	149.1	143.1	208.0	1692.6	6888.9	8365.0	8381.2
47.5°	50.5	57.7	72.8	99.2	138.9	114.2	148.5	1486.4	7108.3	8636.8	8594.1
50°	39.1	45.1	60.7	113.6	121.5	94.4	112.4	1417.8	7304.9	8805.1	8694.5
52.5°	30.7	36.1	49.9	106.4	94.4	78.2	94.4	1482.2	7574.3	8944.6	8751.0
55°	24.7	30.1	39.1	60.7	64.3	66.1	80.6	1542.3	8039.1	9271.7	9084.7
57.5°	20.4	25.9	31.9	42.7	48.7	55.9	71.6	1548.9	8586.9	9815.3	9638.5
59°	18.6	23.4	28.9	37.9	42.7	51.1	67.3	1512.8	8779.9	10013.1	9924.7
60°	17.4	22.2	27.1	34.9	39.7	48.1	64.9	1478.5	8788.3	10005.9	10046.8
62.5°	15.0	19.8	24.1	29.5	33.7	40.9	58.3	1351.7	8432.3	9678.2	9973.4
65°	13.2	17.4	21.6	25.3	28.9	36.7	52.9	1120.2	7824.4	9149.7	9471.3
67.5°	12.0	15.0	19.8	22.2	25.9	32.5	46.9	798.5	7065.0	8503.3	8711.9
70°	10.8	14.4	18.0	20.4	23.4	28.3	40.3	458.8	5965.9	7556.9	7705.4
72.5°	10.2	13.8	16.2	19.2	21.0	25.3	36.7	215.9	4368.3	6053.7	6441.5
75°	9.0	12.6	15.0	18.0	19.8	22.8	31.3	103.4	2905.4	4380.9	4821.7
77.5°	5.4	10.2	13.8	16.2	17.4	19.8	25.9	59.5	1854.3	3032.3	3571.6
80°	0.0	3.6	10.2	13.8	15.0	16.8	19.8	46.9	992.1	1732.3	2079.2
82.5°	0.0	0.0	7.2	10.8	10.2	11.4	15.0	29.5	447.4	1132.2	1275.9
85°	0.0	0.0	2.4	8.4	7.2	5.4	10.2	10.2	98.0	573.0	714.9
87.5°	0.0	0.0	0.0	0.6	3.6	2.4	4.2	1.2	0.6	42.7	173.2
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: P324589

CATALOG NUMBER: GLEON-SA5A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4	4134.4
2.5°	4673.7	4718.2	4793.4	4828.9	4811.4	4737.5	4649.1	4558.9	4506.0	4527.0
5°	4961.2	5190.2	5322.5	5366.4	5293.1	5127.1	4910.0	4623.8	4522.2	4494.6
7.5°	4961.2	5392.3	5665.3	5713.4	5549.8	5224.5	4817.4	4370.7	4222.2	4168.1
10°	4786.8	5373.6	5754.2	5830.6	5602.1	5115.7	4570.3	4060.4	3884.3	3828.3
12.5°	4590.2	5222.1	5623.2	5728.4	5540.8	5007.5	4399.0	3850.6	3643.2	3594.4
15°	4469.3	5035.7	5367.6	5444.0	5364.6	4944.3	4358.1	3787.5	3543.3	3496.4
17.5°	4512.6	4891.4	5011.1	5055.6	5109.1	4922.1	4469.3	3925.8	3616.7	3572.2
20°	4675.5	4739.3	4677.4	4733.3	4877.6	4943.7	4734.5	4260.1	3889.1	3829.5
22.5°	4952.1	4660.5	4486.7	4509.0	4684.6	5015.3	5139.7	4737.5	4309.4	4234.8
25°	5274.4	4724.3	4380.9	4361.1	4541.5	5109.7	5510.1	5257.0	4806.6	4724.3
27.5°	5679.7	4867.4	4359.3	4339.4	4491.6	5198.1	5818.0	5770.5	5330.3	5189.6
30°	5992.3	5008.1	4423.6	4377.9	4541.5	5259.4	6065.1	6206.4	5747.6	5654.4
32.5°	6216.6	5174.0	4528.2	4462.1	4682.2	5365.2	6255.7	6605.7	6133.6	5992.3
35°	6387.4	5354.4	4697.2	4588.4	4875.8	5525.8	6434.3	7030.8	6544.3	6389.8
37.5°	6547.3	5607.5	4961.2	4831.3	5179.4	5784.3	6623.1	7513.0	7003.7	6819.1
40°	6770.4	5894.3	5368.2	5252.8	5689.9	6136.7	6858.8	8015.7	7526.2	7294.1
42.5°	6993.5	6202.2	5784.9	5816.2	6326.7	6564.8	7163.0	8547.2	8042.1	7794.4
45°	7197.3	6519.7	6378.4	6522.7	6917.7	7034.4	7465.5	8854.4	8454.0	8214.7
47.5°	7378.9	6916.5	6968.2	7352.4	7589.9	7459.5	7691.6	9119.6	8760.6	8549.6
50°	7589.9	7430.0	7745.7	8289.2	8363.8	7844.3	7897.2	9433.5	9119.0	8949.4
52.5°	7820.8	7971.2	8606.7	9085.9	9061.9	8262.2	8104.0	9785.2	9610.2	9450.9
55°	8083.0	8408.3	9364.9	9831.5	9811.1	8728.8	8446.8	10219.9	10226.0	10081.6
57.5°	8472.0	8784.7	9879.6	10434.6	10468.9	9267.5	9027.6	10707.0	10782.7	10686.5
59°	8751.0	9028.8	10083.5	10686.5	10826.0	9684.2	9452.1	10989.6	10939.7	10851.9
60°	8957.9	9183.9	10184.5	10818.2	11033.5	9966.8	9765.4	11155.5	10958.3	10851.9
62.5°	9469.5	9521.9	10366.7	10967.3	11272.2	10594.5	10646.8	11438.1	10829.0	10655.3
65°	9708.3	9735.3	10364.2	10700.4	11041.3	11083.4	11446.6	11446.6	10513.4	10246.4
67.5°	9608.4	9478.0	9850.2	9815.3	10155.6	10793.0	11747.2	11026.9	9909.7	9564.5
70°	8796.7	8294.6	8129.3	8144.3	8404.7	9387.8	11151.9	9791.8	8767.3	8363.8
72.5°	7319.4	6115.0	5706.7	6172.7	6240.7	7214.7	9503.8	7374.1	6465.6	6087.4
75°	5887.1	4310.6	3646.8	4138.6	4254.1	5279.8	7351.8	4592.6	3776.6	3482.0
77.5°	4229.4	3094.2	2616.8	2582.5	2731.6	3348.5	5216.7	2311.3	1927.7	1799.0
80°	2402.7	2036.5	2192.9	2069.0	2144.2	2093.7	2478.5	1013.8	830.4	776.3
82.5°	1450.3	1203.8	1303.6	1085.3	1373.3	1195.9	954.8	324.7	282.0	268.2
85°	943.4	657.8	342.7	229.7	473.2	764.2	213.5	88.4	67.9	54.1
87.5°	325.3	167.8	16.8	7.2	50.5	142.5	7.8	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)