

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: P324270

Luminaire Tested: **GLEON-SA6A-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324270
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-SA6A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 15190 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

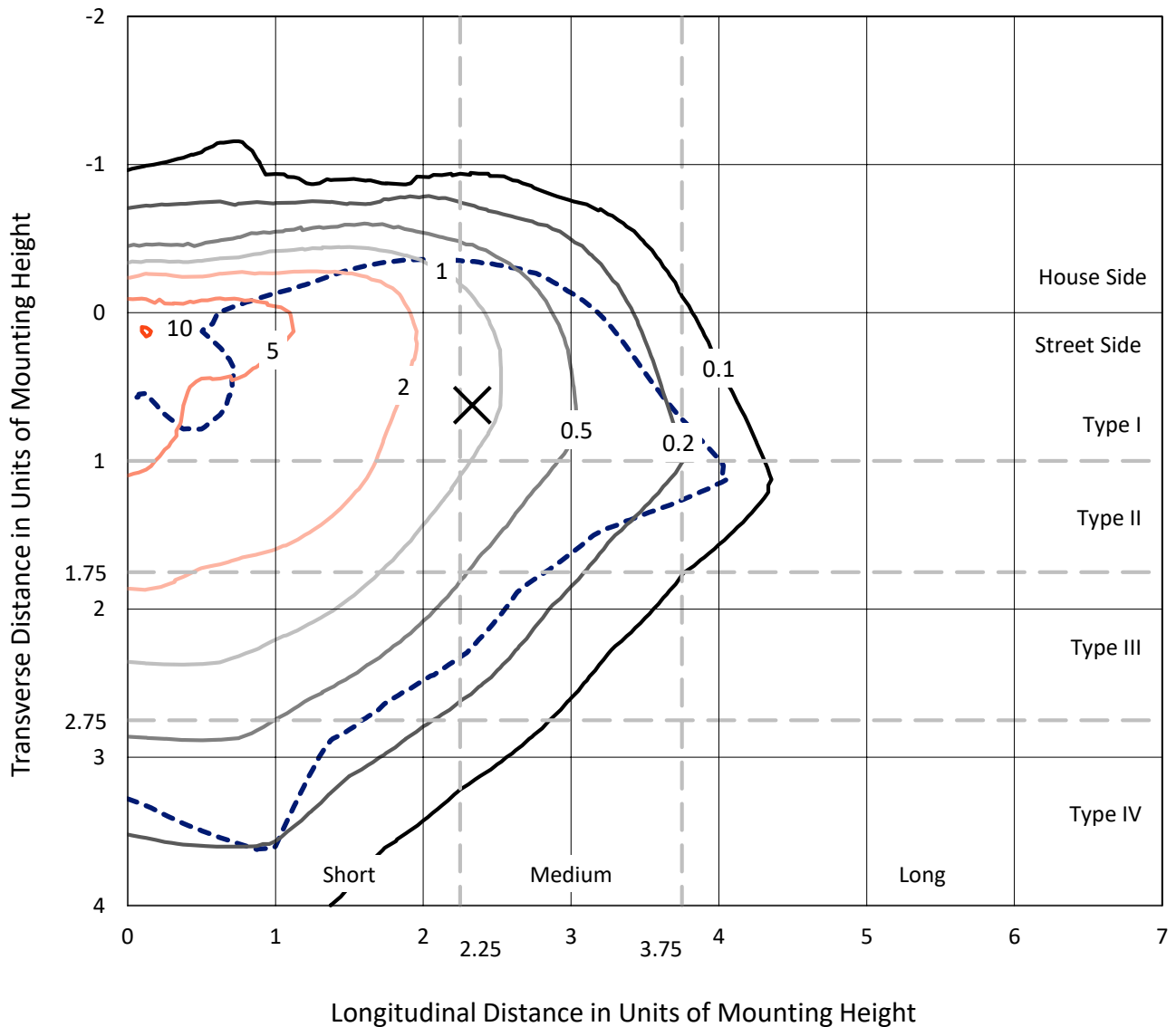
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

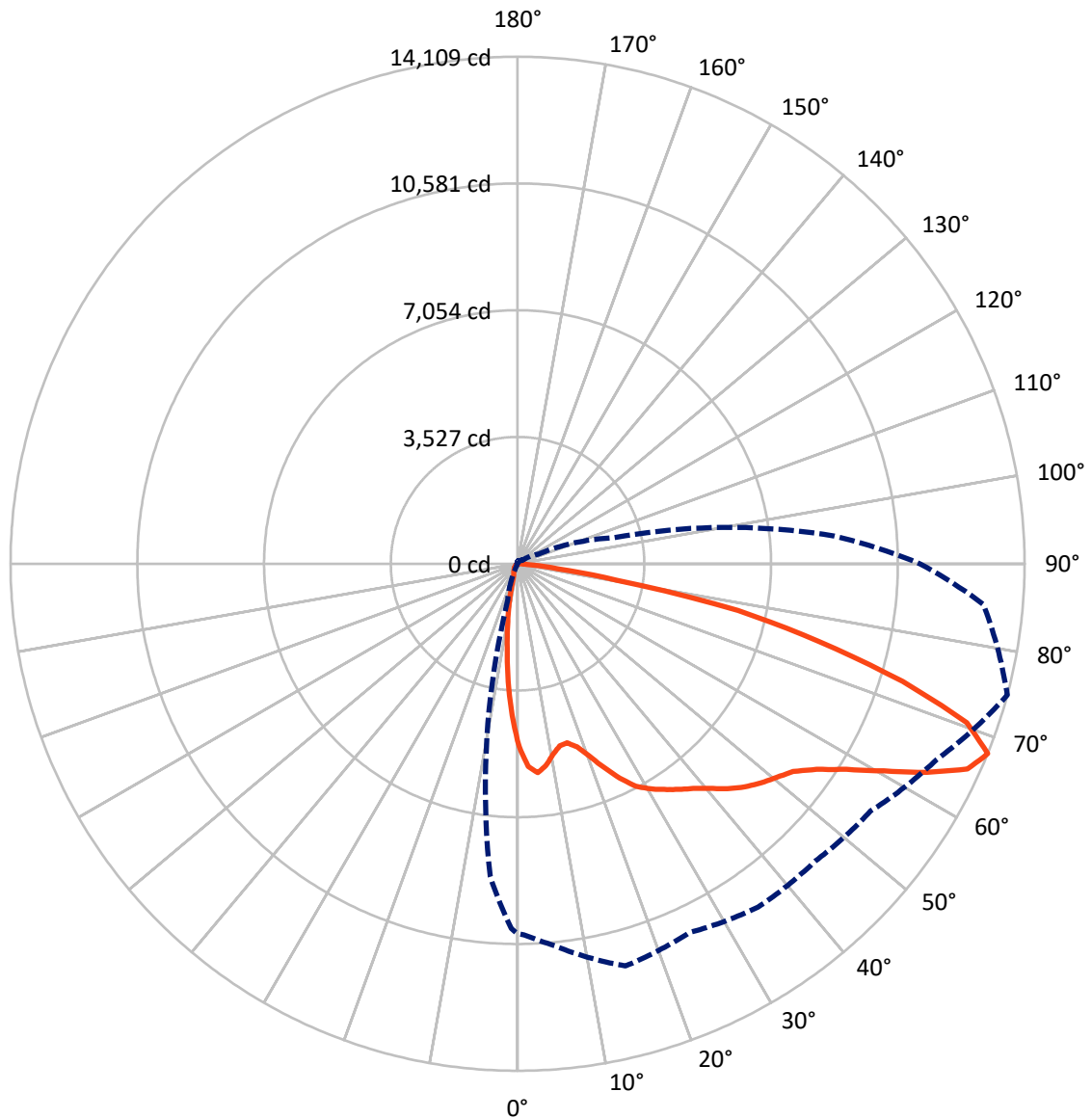
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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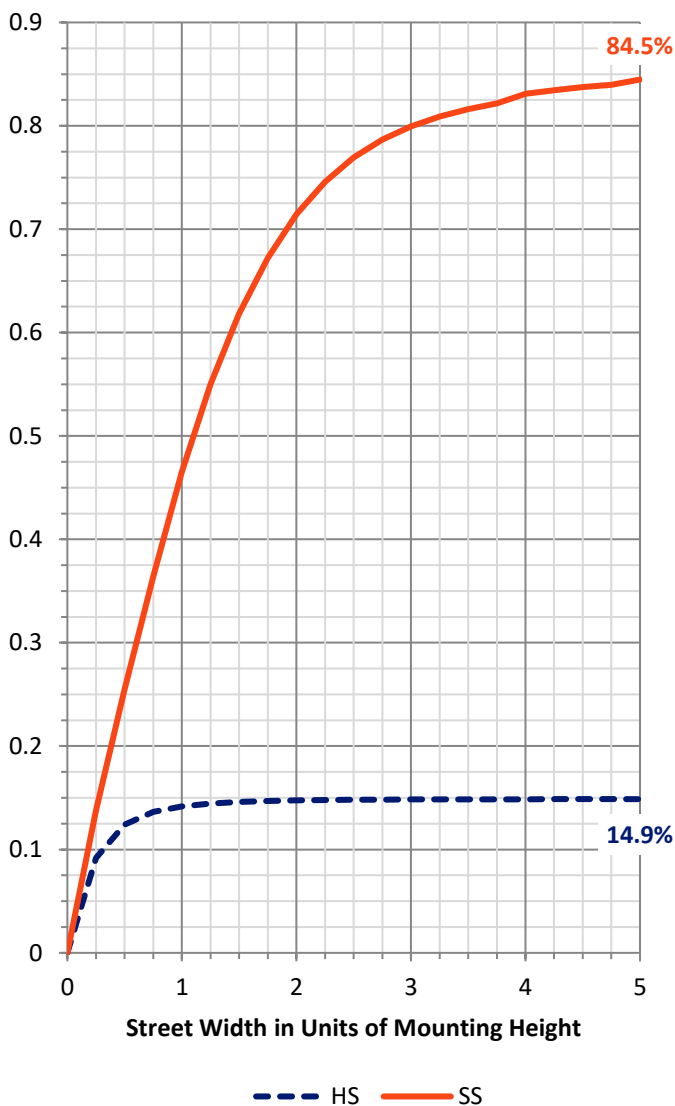
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2279.4	0.0	2279.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12910.6	0.0	12910.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	15190.0	0.0	15190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	2.5
10°-20°	761.1	5.0
20°-30°	1076.8	7.1
30°-40°	1583.2	10.4
40°-50°	2275.5	15.0
50°-60°	3203.4	21.1
60°-70°	3741.2	24.6
70°-80°	1908.7	12.6
80°-90°	253.6	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°	15190.0	100.0
0°-180°	15190.0	100.0

Coefficient of Utilization

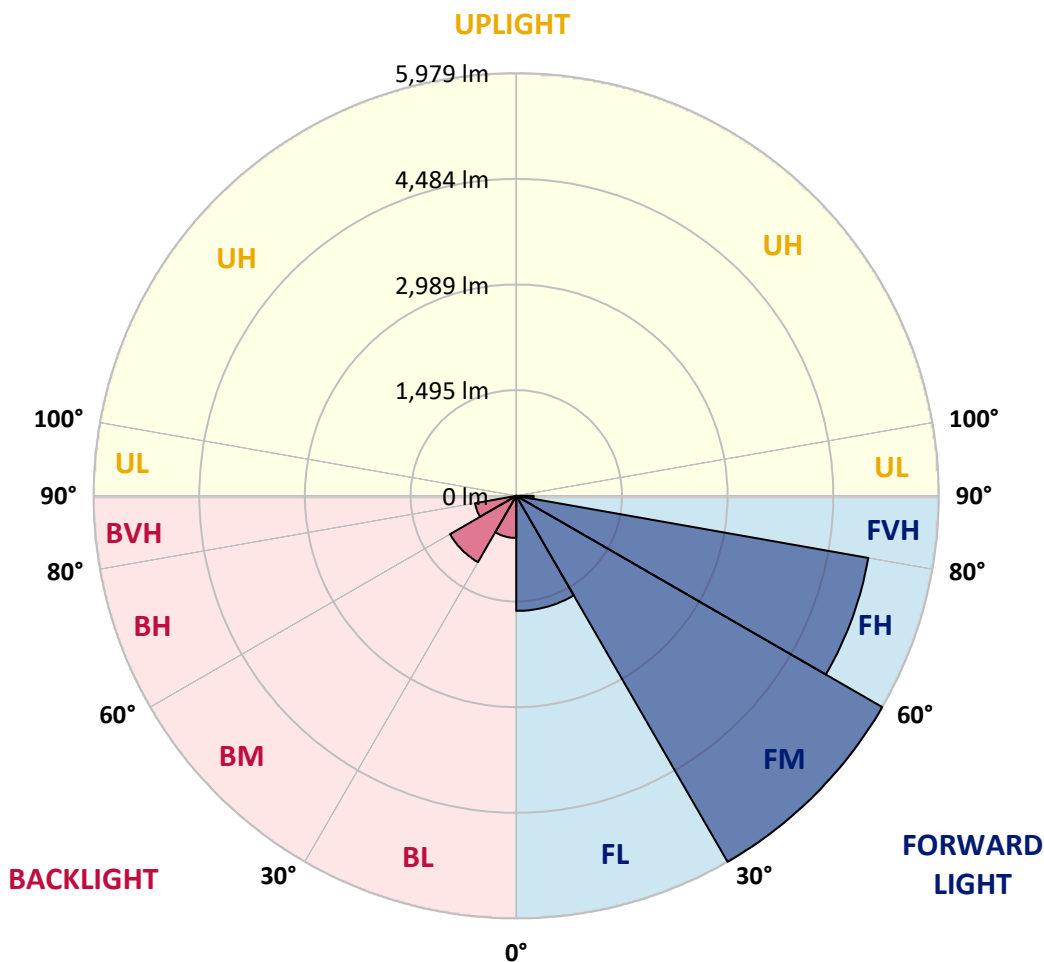


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.4	10.7			
FM (30°-60°)	5978.5	39.4			
FH (60°-80°)	5057.8	33.3			G3/7500
FVH (80°-90°)	245.9	1.6			G3/500
BL (0°-30°)	596.1	3.9	B2/1000		
BM (30°-60°)	1083.6	7.1	B2/2500		
BH (60°-80°)	592.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	7.7	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°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
2.5°	5524.1	5532.8	5577.4	5681.0	5794.0	5802.6	5878.9	5800.4	5773.8	5647.2	5516.2
5°	5565.9	5599.0	5752.2	6056.6	6320.7	6405.6	6466.0	6312.1	6150.2	5840.7	5510.5
7.5°	5229.8	5285.2	5526.3	6097.6	6569.7	6778.3	6817.9	6576.9	6180.4	5670.9	5174.4
10°	4799.5	4862.8	5153.6	5855.8	6504.2	6861.8	6916.5	6600.6	6030.7	5396.0	4811.0
12.5°	4451.3	4525.4	4822.5	5583.9	6279.0	6674.7	6782.7	6520.7	5901.2	5201.0	4562.8
15°	4290.8	4375.7	4688.0	5408.3	6029.3	6340.8	6430.1	6317.1	5829.2	5170.1	4505.2
17.5°	4382.9	4475.0	4797.4	5423.4	5794.7	5927.8	5999.8	6045.8	5829.2	5356.5	4673.6
20°	4760.7	4860.0	5201.0	5576.7	5600.4	5550.8	5627.7	5789.6	5896.9	5710.5	5078.0
22.5°	5283.1	5399.6	5784.6	5839.3	5505.4	5317.6	5327.7	5581.7	6019.9	6159.5	5639.3
25°	5919.9	6062.4	6453.8	6230.7	5545.0	5178.7	5175.1	5410.4	6140.1	6609.2	6264.6
27.5°	6552.4	6709.3	7053.2	6708.5	5708.3	5153.6	5146.4	5358.6	6257.4	7009.3	6947.4
30°	7082.7	7235.3	7531.7	7054.7	5884.6	5212.6	5178.0	5414.0	6327.2	7269.1	7445.4
32.5°	7514.5	7636.8	7876.4	7292.8	6073.2	5327.0	5252.1	5562.3	6445.9	7488.6	7903.0
35°	7989.4	8118.2	8213.9	7519.5	6284.7	5491.7	5384.5	5797.6	6628.7	7711.6	8404.6
37.5°	8531.2	8659.3	8647.8	7726.7	6553.1	5764.5	5696.1	6170.3	6912.9	7932.5	8964.4
40°	9061.5	9192.5	9098.9	7953.4	6868.3	6214.2	6163.8	6730.1	7293.5	8215.3	9620.6
42.5°	9558.0	9699.8	9499.7	8167.8	7243.9	6781.2	6867.6	7451.1	7769.9	8563.6	10186.2
45°	9958.1	10102.7	9835.8	8376.5	7639.7	7469.1	7728.9	8249.9	8342.7	8857.9	10568.3
47.5°	10248.8	10385.5	10068.9	8585.2	8146.2	8310.3	8762.9	9087.4	8860.0	9113.3	10839.6
50°	10434.5	10541.0	10137.3	8846.4	8811.1	9291.8	9840.1	9998.4	9347.2	9343.6	11169.1
52.5°	10552.5	10600.7	10187.7	9119.1	9504.8	10360.3	10895.0	10944.6	9848.7	9596.9	11613.1
55°	10959.0	10997.9	10544.6	9449.4	10078.3	11296.5	11849.1	11803.1	10416.5	10092.7	12137.0
57.5°	11652.7	11693.7	11282.1	9924.3	10542.4	11875.0	12540.6	12623.4	11082.1	10789.2	12698.2
60°	12001.0	12077.2	11930.4	10525.9	10992.1	12244.9	13012.0	13276.0	11913.9	11707.4	13242.2
62.5°	11685.1	11795.9	12008.9	11192.9	11439.0	12448.5	13158.8	13509.9	12765.9	12777.4	13577.5
65°	11054.7	11143.2	11504.5	11558.4	11698.0	12423.4	12796.1	13183.2	13287.6	13760.3	13559.6
67.5°	10293.4	10326.5	10633.1	11587.2	11322.4	11666.4	11706.7	11993.1	12875.2	14108.6	13014.8
70°	9197.5	9215.5	9483.2	10623.7	9730.0	9805.6	9745.8	9804.1	11069.1	13260.2	11639.7
72.5°	7402.2	7447.5	7828.2	8822.6	7088.5	6870.4	7339.6	7313.7	8524.7	11203.0	8644.9
75°	5450.0	5528.4	6103.4	7106.5	4975.1	4500.2	4842.7	4934.1	6060.2	8665.8	5406.1
77.5°	3815.9	3874.2	4431.1	5224.1	3600.7	3217.9	3094.1	3202.8	4000.1	6268.9	2723.6
80°	2198.3	2219.9	2575.3	3016.4	2426.4	2776.1	2514.9	2589.7	2396.9	2789.0	1171.5
82.5°	1438.4	1442.0	1580.9	1795.3	1511.1	1755.7	1299.5	1661.5	1474.4	1120.4	381.4
85°	777.1	781.5	916.7	1274.4	855.6	483.6	284.2	583.6	911.7	256.9	104.3
87.5°	85.6	78.4	276.3	463.4	237.5	43.9	15.1	65.5	146.1	16.6	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°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
2.5°	5449.3	5389.6	5240.6	5083.0	4956.4	4837.7	4718.2	4572.1	4459.2	4436.1	4398.7
5°	5332.7	5143.5	4831.2	4517.5	4264.9	3946.1	3743.9	3586.3	3432.3	3423.0	3392.0
7.5°	4925.4	4676.5	4236.8	3802.9	3447.5	3143.8	2837.3	2632.2	2471.0	2414.2	2380.3
10°	4534.0	4254.1	3705.1	3210.0	2892.7	2624.3	2408.4	2194.0	1999.7	1865.8	1805.4
12.5°	4260.6	3951.2	3346.0	2919.3	2691.9	2437.2	2173.8	1906.1	1682.4	1521.2	1422.6
15°	4154.8	3824.5	3225.8	2804.2	2523.5	2201.2	1864.4	1558.6	1310.3	1164.3	1075.8
17.5°	4280.7	3896.5	3216.5	2663.8	2271.7	1870.9	1498.9	1137.6	903.8	793.0	736.1
20°	4600.2	4125.3	3212.9	2491.9	1972.3	1479.4	1015.3	748.4	606.6	544.7	518.1
22.5°	5052.1	4417.4	3241.7	2322.0	1660.8	1057.0	700.9	549.8	477.1	444.0	428.9
25°	5633.5	4827.6	3323.0	2168.1	1367.9	788.6	546.2	460.5	409.4	383.5	372.7
27.5°	6253.1	5299.6	3449.6	2034.2	1129.7	628.9	467.7	394.3	357.6	339.6	329.6
30°	6763.9	5846.5	3577.7	1885.3	957.0	548.3	428.1	359.8	317.3	305.8	296.5
32.5°	7210.8	6260.2	3668.4	1750.7	844.1	487.1	387.1	321.6	292.9	270.6	260.5
35°	7673.5	6604.9	3665.5	1656.4	766.3	441.1	352.6	287.8	253.3	227.4	219.5
37.5°	8174.3	6994.2	3602.9	1575.9	732.5	404.4	333.2	269.8	235.3	209.4	199.3
40°	8760.7	7402.9	3538.8	1500.3	723.2	374.9	319.5	255.4	218.7	193.6	183.5
42.5°	9332.1	7771.3	3482.7	1444.2	682.9	374.2	307.3	244.7	205.8	181.3	169.8
45°	9789.0	8114.6	3471.9	1410.4	640.4	387.1	300.8	237.5	195.7	171.3	160.5
47.5°	10168.9	8487.3	3541.0	1386.6	600.1	353.3	316.6	232.4	186.4	162.6	150.4
50°	10620.8	8945.0	3703.6	1347.8	557.7	318.0	362.7	233.9	178.5	154.0	141.0
52.5°	11251.2	9578.2	3942.5	1282.3	499.4	285.7	356.9	235.3	169.8	144.6	131.7
55°	11957.8	10369.0	4199.4	1173.6	418.1	243.2	305.8	225.2	153.3	134.6	122.3
57.5°	12700.4	11086.4	4352.0	1044.1	332.4	210.1	244.7	205.1	135.3	120.9	113.0
60°	12817.0	11359.1	4282.2	885.1	264.1	182.8	181.3	208.7	120.9	106.5	100.7
62.5°	12527.0	11016.6	3944.7	743.3	220.9	160.5	149.0	182.1	109.4	95.0	89.2
65°	11969.3	10090.5	3397.8	669.9	205.1	137.4	123.8	128.1	95.7	82.8	77.7
67.5°	11193.6	8854.3	2789.8	628.2	202.9	118.0	105.8	97.1	82.8	72.0	67.6
70°	9607.7	7376.3	2225.6	605.2	197.2	99.3	89.2	79.2	69.1	61.2	57.6
72.5°	7071.2	5226.9	1731.3	580.0	198.6	79.2	77.7	65.5	55.4	47.5	46.1
75°	4085.7	2986.2	1135.5	469.9	189.2	61.2	64.8	46.1	38.9	33.1	33.1
77.5°	2177.4	1821.2	432.5	195.7	69.1	38.9	36.7	27.3	24.5	20.1	19.4
80°	949.1	801.6	130.2	54.7	38.1	20.9	13.7	12.2	10.8	8.6	7.9
82.5°	336.0	290.0	42.5	26.6	16.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	76.3	54.7	0.0	6.5	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°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
2.5°	4322.4	4306.6	4213.1	4216.7	4233.2	4257.0	4200.8	4226.7	4296.5	4363.5	4388.6
5°	3342.4	3346.0	3289.1	3324.4	3356.1	3377.7	3287.0	3288.4	3343.8	3419.4	3459.0
7.5°	2355.1	2349.4	2352.3	2436.5	2496.2	2453.0	2486.8	2369.5	2376.7	2430.7	2390.4
10°	1750.7	1671.6	1626.9	1690.3	1755.7	1732.0	1673.7	1635.6	1662.2	1721.9	1717.6
12.5°	1375.8	1262.1	1195.2	1149.9	1203.8	1159.2	1157.8	1124.7	1088.7	1095.2	1190.9
15°	1034.7	952.0	872.8	800.2	798.7	783.6	706.6	620.3	613.1	617.4	667.0
17.5°	711.7	683.6	651.2	588.6	572.1	508.7	433.9	399.4	382.1	390.0	406.6
20°	500.1	489.3	492.9	459.1	435.3	374.9	331.0	317.3	314.5	322.4	330.3
22.5°	414.5	395.0	392.9	377.8	354.0	310.1	286.4	278.5	274.9	282.1	287.8
25°	362.7	343.2	335.3	326.0	300.8	270.6	256.2	249.0	245.4	249.7	253.3
27.5°	319.5	301.5	294.3	287.8	263.4	241.8	230.3	223.8	220.9	222.3	225.9
30°	287.1	271.3	261.9	254.0	233.1	218.0	208.0	201.5	198.6	198.6	202.2
32.5°	253.3	244.7	236.0	225.9	206.5	196.4	186.4	179.2	176.3	177.0	179.9
35°	210.8	208.0	210.1	200.8	184.2	175.6	165.5	157.6	155.4	156.1	159.0
37.5°	187.1	174.1	182.1	177.0	167.7	156.1	143.2	136.0	132.4	134.6	136.0
40°	172.0	156.1	150.4	155.4	154.0	135.3	123.8	116.6	113.7	114.4	115.9
42.5°	159.0	140.3	127.4	126.6	135.3	118.0	105.8	99.3	95.7	95.7	97.1
45°	146.8	126.6	110.8	98.6	113.7	100.0	88.5	82.8	78.4	78.4	79.2
47.5°	137.4	115.1	96.4	80.6	85.6	82.0	72.7	66.9	62.6	62.6	63.3
50°	128.8	103.6	83.5	67.6	64.0	67.6	59.0	52.5	49.7	48.9	50.4
52.5°	119.4	92.1	71.2	57.6	50.4	51.1	46.1	41.7	38.1	38.1	39.6
55°	110.1	82.8	61.9	48.9	41.7	38.1	36.7	33.8	30.9	30.9	32.4
57.5°	100.7	72.7	52.5	40.3	33.1	30.2	30.2	28.1	25.9	25.9	27.3
60°	92.1	62.6	43.2	33.1	25.9	25.2	25.9	23.7	22.3	22.3	23.7
62.5°	82.0	53.2	35.3	27.3	20.9	20.1	22.3	20.9	19.4	19.4	20.9
65°	69.8	45.3	28.1	20.9	15.8	15.8	18.7	17.3	15.8	15.8	17.3
67.5°	59.0	38.1	21.6	15.1	11.5	12.2	15.8	14.4	13.7	13.7	15.1
70°	48.9	29.5	15.1	9.4	6.5	9.4	12.2	12.2	12.2	12.2	13.7
72.5°	36.7	20.1	8.6	3.6	2.9	6.5	10.1	11.5	10.8	10.8	13.0
75°	23.7	11.5	2.9	0.0	0.0	3.6	7.9	9.4	9.4	8.6	10.8
77.5°	13.7	3.6	0.0	0.0	0.0	0.0	5.0	4.3	3.6	2.9	5.0
80°	3.6	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: P324270

CATALOG NUMBER: GLEON-SA6A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
2.5°	4490.1	4575.0	4694.5	4821.1	5016.1	5170.8	5322.6	5452.9	5503.3	5524.1
5°	3553.9	3678.4	3853.3	4077.8	4429.7	4746.3	5067.2	5390.3	5530.6	5565.9
7.5°	2550.2	2709.2	2931.5	3212.9	3625.2	4035.3	4483.6	4957.8	5175.1	5229.8
10°	1887.4	2081.7	2336.4	2632.9	3026.5	3448.2	3936.8	4478.6	4726.8	4799.5
12.5°	1339.1	1601.8	1942.8	2303.3	2644.4	3020.7	3515.1	4112.3	4372.8	4451.3
15°	786.5	1040.5	1444.2	1927.0	2363.8	2745.2	3247.4	3924.5	4211.6	4290.8
17.5°	451.2	577.8	882.9	1421.1	2014.1	2542.2	3163.2	3971.3	4309.5	4382.9
20°	344.7	385.0	508.7	915.3	1605.4	2342.9	3163.2	4236.1	4652.7	4760.7
22.5°	301.5	331.0	381.4	546.2	1181.5	2129.2	3199.9	4618.9	5163.6	5283.1
25°	267.7	294.3	337.5	410.9	805.9	1875.2	3287.0	5088.8	5765.2	5919.9
27.5°	239.6	264.8	303.7	359.8	551.2	1568.7	3404.3	5640.0	6428.6	6552.4
30°	214.4	238.2	273.4	313.0	425.3	1221.1	3504.3	6159.5	6949.6	7082.7
32.5°	190.7	212.3	243.9	273.4	348.3	903.1	3515.1	6571.1	7382.1	7514.5
35°	168.4	187.8	216.6	239.6	288.5	713.1	3347.4	6928.0	7814.5	7989.4
37.5°	146.8	165.5	190.7	208.0	254.0	581.4	3091.3	7325.9	8369.3	8531.2
40°	126.6	143.2	169.1	180.6	240.3	446.9	2812.8	7743.3	8913.3	9061.5
42.5°	107.9	123.8	149.0	171.3	210.8	333.9	2512.0	8134.7	9402.6	9558.0
45°	89.9	106.5	131.7	181.3	174.9	249.7	2190.4	8394.5	9789.0	9958.1
47.5°	72.7	91.4	125.9	172.7	139.6	183.5	1935.6	8640.6	10081.9	10248.8
50°	58.3	77.0	141.8	154.0	114.4	140.3	1829.1	8860.8	10274.0	10434.5
52.5°	47.5	64.8	133.8	118.0	95.7	115.9	1886.7	9217.7	10451.7	10552.5
55°	39.6	51.1	80.6	82.0	81.3	98.6	1957.9	9730.0	10911.5	10959.0
57.5°	34.5	41.0	56.1	63.3	68.4	87.8	1959.4	10465.4	11623.2	11652.7
60°	29.5	36.0	46.8	51.1	59.0	78.4	1888.1	10722.3	11903.1	12001.0
62.5°	25.9	31.7	38.9	42.5	49.7	70.5	1721.2	10350.3	11518.9	11685.1
65°	23.0	28.8	32.4	36.0	43.9	63.3	1446.3	9606.2	10881.3	11054.7
67.5°	20.1	25.2	28.8	32.4	39.6	56.1	1065.0	8742.0	10149.5	10293.4
70°	18.0	22.3	25.9	28.8	34.5	47.5	646.2	7418.0	9137.8	9197.5
72.5°	17.3	20.1	23.7	25.9	30.2	41.7	327.4	5451.5	7305.1	7402.2
75°	15.1	18.0	21.6	23.0	26.6	36.0	133.1	3580.6	5293.9	5450.0
77.5°	12.2	16.6	19.4	20.9	23.0	29.5	67.6	2288.2	3715.1	3815.9
80°	4.3	12.2	16.6	17.3	19.4	21.6	44.6	1252.8	2155.1	2198.3
82.5°	0.0	7.9	13.0	12.2	13.7	16.6	28.8	595.8	1422.6	1438.4
85°	0.0	3.6	10.1	7.9	5.8	11.5	10.1	130.2	746.2	777.1
87.5°	0.0	0.0	0.7	3.6	2.9	4.3	1.4	0.7	67.6	85.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)