

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: P324602

Luminaire Tested: **GLEON-SA8B-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324602
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-SA8B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 24957 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

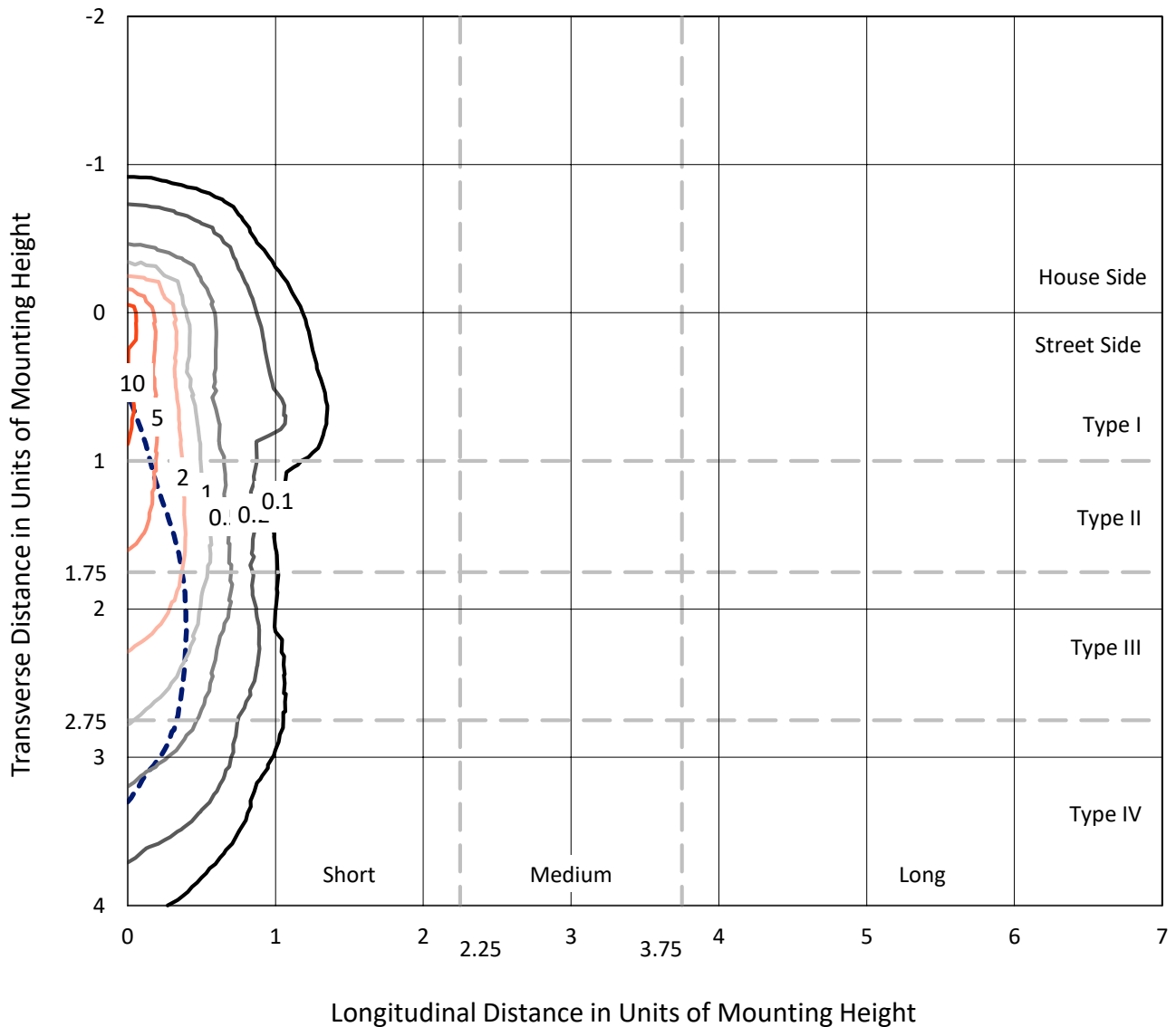
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

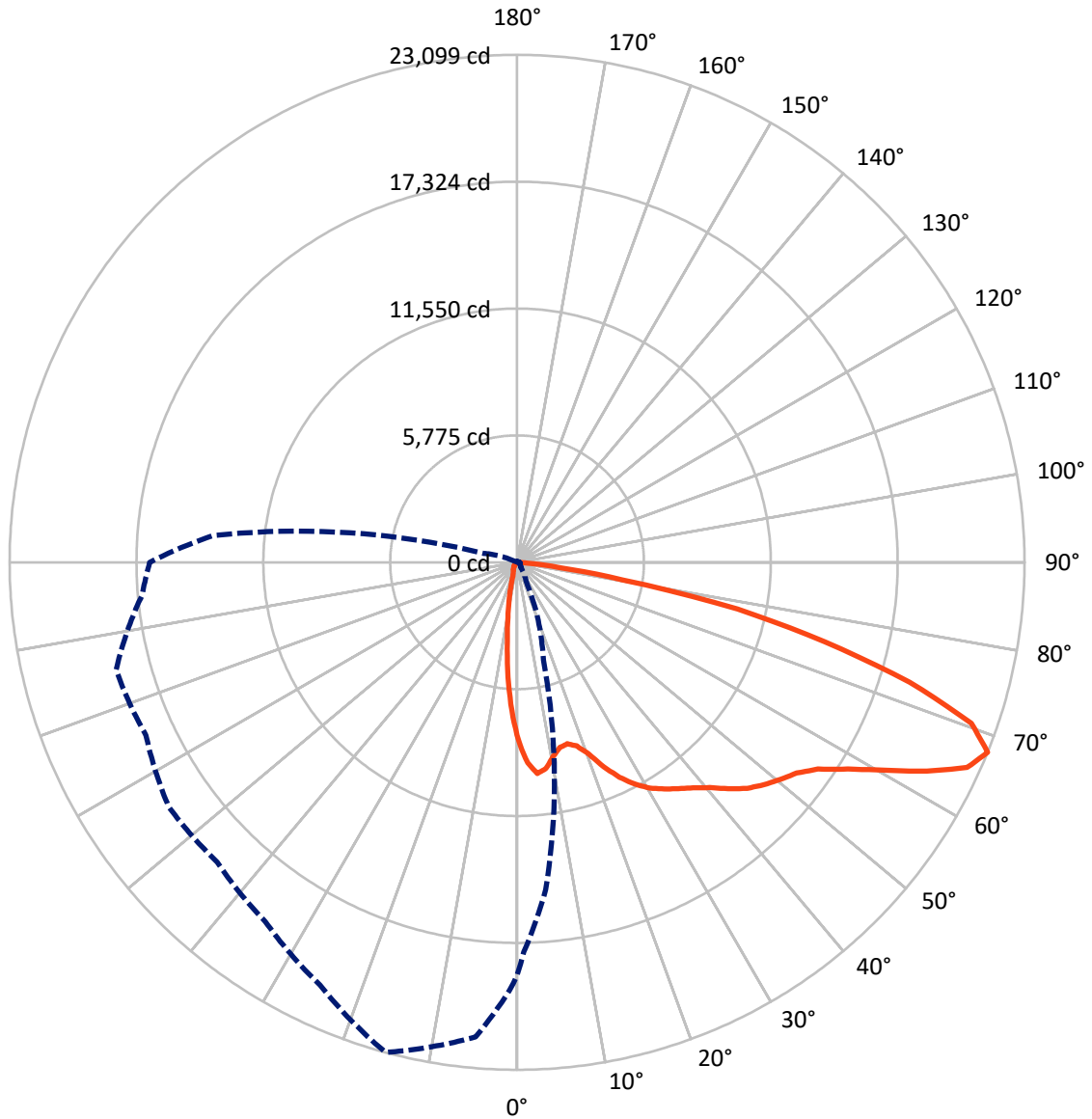
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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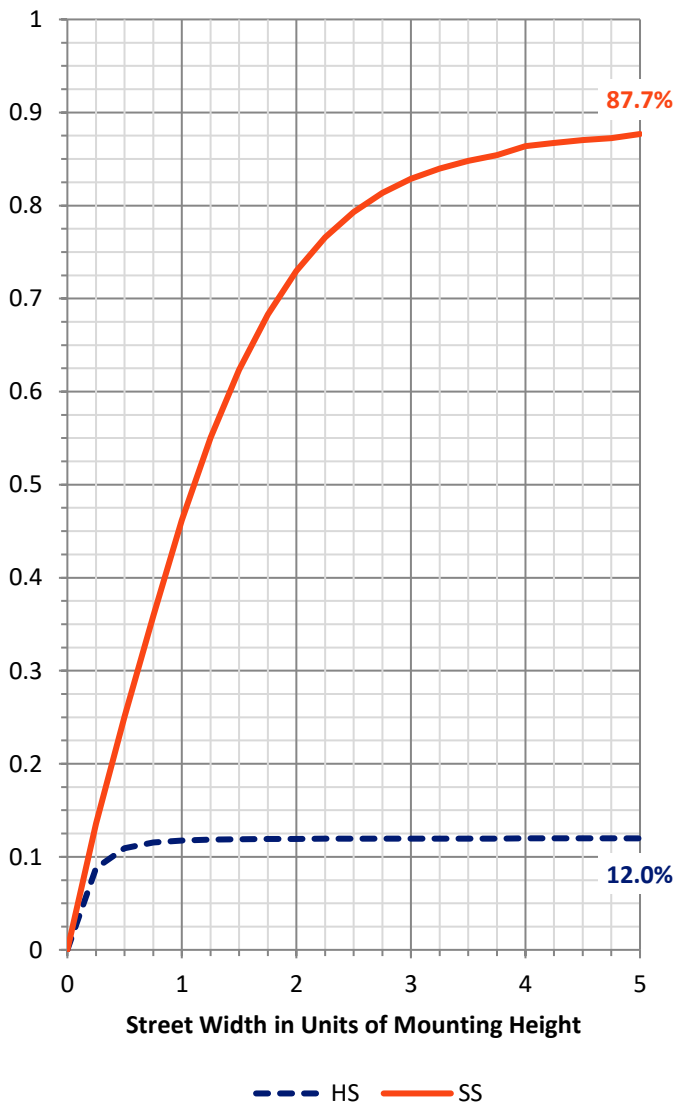
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3020.6	0.0	3020.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21936.4	0.0	21936.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	24957.0	0.0	24957.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.9	2.5
10°-20°	1241.9	5.0
20°-30°	1763.6	7.1
30°-40°	2604.9	10.4
40°-50°	3756.8	15.1
50°-60°	5273.8	21.1
60°-70°	6147.7	24.6
70°-80°	3142.8	12.6
80°-90°	401.4	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°	24957.0	100.0
0°-180°	24957.0	100.0

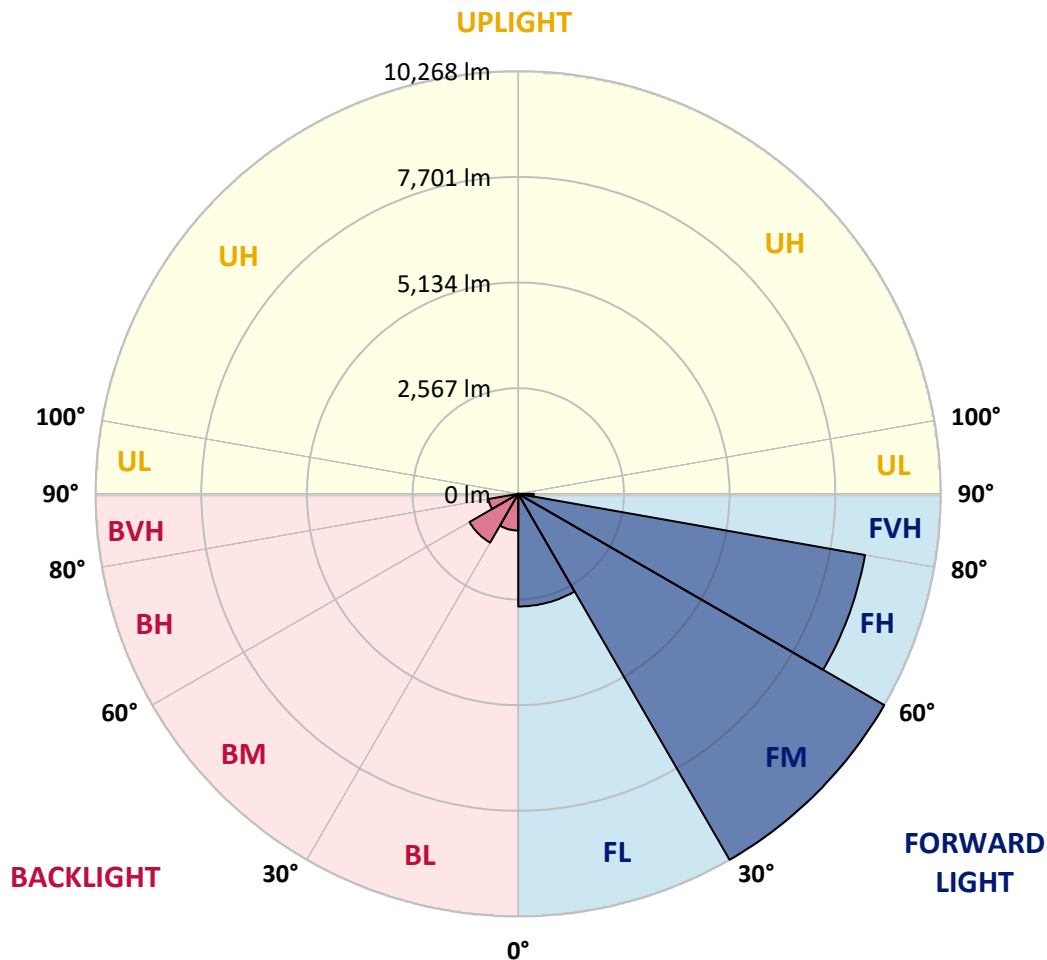


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2737.3	11.0			
FM (30°-60°)	10267.7	41.1			
FH (60°-80°)	8554.4	34.3			G4/12000
FVH (80°-90°)	377.0	1.5			G3/500
BL (0°-30°)	892.2	3.6	B2/1000		
BM (30°-60°)	1367.8	5.5	B2/2500		
BH (60°-80°)	736.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	24.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7
2.5°	8901.8	8833.2	8757.5	8510.4	8281.0	8018.6	7804.6	7655.6	7468.8	7226.4	7164.9
5°	8837.9	8764.6	8527.0	7977.2	7496.0	7027.8	6576.1	6311.3	5982.6	5649.2	5566.4
7.5°	8195.9	8119.1	7776.2	7023.0	6375.1	5698.8	5112.4	4749.4	4378.2	4073.1	3911.1
10°	7527.9	7443.9	7058.5	6144.6	5346.5	4735.2	4304.9	3958.4	3607.3	3281.0	3020.9
12.5°	7068.0	6958.0	6539.5	5503.7	4808.5	4393.5	3991.5	3576.5	3101.2	2751.3	2465.2
15°	6875.2	6749.9	6307.7	5256.6	4618.2	4131.1	3607.3	3097.7	2540.8	2140.0	1877.5
17.5°	7024.2	6861.1	6386.9	5240.1	4379.3	3716.1	3054.0	2455.7	1851.5	1446.0	1259.2
20°	7530.3	7316.3	6714.4	5235.4	4089.7	3223.0	2383.6	1707.3	1220.2	981.3	883.2
22.5°	8327.1	8044.6	7185.0	5273.2	3790.5	2705.2	1721.5	1159.9	916.3	792.2	734.2
25°	9289.6	8962.1	7862.5	5406.8	3528.1	2201.5	1250.9	916.3	773.2	682.2	633.7
27.5°	10204.7	9938.7	8718.5	5599.5	3324.7	1794.8	1015.6	776.8	660.9	600.6	561.6
30°	11118.6	10784.0	9597.0	5828.9	3080.0	1519.3	892.7	708.2	592.3	528.5	503.7
32.5°	11783.1	11505.2	10285.1	5994.4	2818.7	1339.6	798.1	647.9	553.3	488.3	451.6
35°	12564.6	12250.1	10875.1	6031.1	2650.8	1226.1	717.7	582.9	480.0	422.1	383.1
37.5°	13408.8	13017.4	11556.1	5950.7	2519.5	1170.5	657.4	553.3	448.1	389.0	347.6
40°	14342.8	13900.6	12209.9	5834.8	2390.7	1151.6	611.3	530.9	423.3	363.0	320.4
42.5°	15326.5	14805.1	12776.3	5713.0	2309.1	1086.6	606.5	508.4	404.4	339.3	296.8
45°	16153.0	15624.5	13358.0	5672.8	2251.2	1015.6	626.6	493.0	391.4	320.4	279.0
47.5°	16811.5	16311.4	13953.9	5762.7	2218.0	950.6	571.1	513.1	384.3	303.9	263.7
50°	17597.8	17031.5	14793.3	6031.1	2169.6	885.6	516.7	587.6	384.3	293.2	250.7
52.5°	18583.9	18023.4	15729.7	6447.2	2072.6	795.7	464.7	588.8	387.8	279.0	234.1
55°	19824.1	19417.4	17066.9	6903.6	1917.7	663.3	402.0	506.0	373.6	253.0	218.7
57.5°	21013.5	20681.3	18285.9	7215.8	1710.8	517.9	350.0	407.9	341.7	222.3	195.1
59°	21338.7	20975.7	18732.8	7229.9	1555.9	451.6	324.0	337.0	334.6	208.1	180.9
60°	21338.7	20953.2	18861.7	7154.3	1443.6	415.0	307.4	300.3	348.8	198.6	172.6
62.5°	20952.1	20410.6	18443.2	6642.3	1177.6	353.5	268.4	248.3	313.3	178.5	152.5
65°	20148.1	19359.5	17017.3	5716.6	1049.9	324.0	231.7	203.4	217.5	157.2	133.6
67.5°	18807.3	17738.5	14961.2	4618.2	999.1	315.7	199.8	172.6	164.3	134.8	117.1
70°	16446.2	15260.3	12465.3	3630.9	955.3	312.1	167.9	145.4	132.4	113.5	99.3
72.5°	11969.9	10733.2	8849.7	2838.8	929.3	319.2	134.8	121.8	108.8	88.7	76.9
75°	6846.9	6037.0	4974.1	1875.2	792.2	305.0	104.0	101.7	78.0	63.8	53.2
77.5°	3537.5	3429.9	2980.7	720.0	379.5	133.6	68.6	59.1	46.1	39.0	31.9
80°	1526.4	1509.8	1306.5	208.1	100.5	74.5	39.0	24.8	21.3	16.6	13.0
82.5°	527.3	527.3	464.7	69.8	44.9	36.7	4.7	0.0	0.0	0.0	0.0
85°	106.4	119.4	83.9	0.0	15.4	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°	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7
2.5°	7090.4	6947.4	6937.9	6848.1	6735.7	6684.9	6655.3	6707.4	6771.2	6778.3	6874.1
5°	5503.7	5353.6	5416.3	5256.6	5288.6	5256.6	5204.6	5214.1	5242.4	5153.8	5263.7
7.5°	3865.0	3751.5	3823.7	3781.1	3837.8	3860.3	3828.4	3781.1	3641.6	3625.0	3720.8
10°	2913.3	2784.4	2707.5	2627.1	2644.9	2681.5	2669.7	2635.4	2546.7	2551.5	2643.7
12.5°	2341.0	2196.8	2044.2	1846.8	1798.3	1825.5	1798.3	1778.2	1693.1	1700.2	1781.8
15°	1775.9	1657.6	1498.0	1339.6	1253.3	1261.5	1185.9	1132.7	1079.5	1015.6	1065.3
17.5°	1198.9	1126.8	1079.5	1032.2	929.3	905.7	809.9	707.0	666.8	637.3	658.6
20°	848.9	809.9	791.0	788.6	729.5	699.9	606.5	542.7	522.6	516.7	529.7
22.5°	709.4	681.0	653.8	638.5	608.9	574.6	503.7	471.7	457.6	450.5	459.9
25°	617.2	595.9	567.5	541.5	529.7	493.0	442.2	418.5	409.1	402.0	406.7
27.5°	548.6	529.7	496.6	480.0	470.6	438.6	394.9	376.0	367.7	365.3	364.2
30°	494.2	476.5	445.7	426.8	410.3	381.9	355.9	337.0	328.7	326.3	324.0
32.5°	439.8	425.6	405.5	386.6	368.9	342.9	320.4	305.0	292.0	289.7	288.5
35°	371.3	357.1	346.4	345.2	328.7	303.9	287.3	267.2	256.6	253.0	254.2
37.5°	329.9	311.0	287.3	295.6	290.9	273.1	250.7	230.6	219.9	217.5	217.5
40°	303.9	283.8	256.6	242.4	256.6	253.0	217.5	197.4	186.8	185.6	183.3
42.5°	279.0	258.9	228.2	204.5	211.6	222.3	188.0	169.1	158.4	156.1	152.5
45°	261.3	240.0	205.7	178.5	164.3	186.8	160.8	137.2	131.2	126.5	124.1
47.5°	244.7	224.6	185.6	154.9	131.2	134.8	128.9	112.3	105.2	100.5	99.3
50°	230.6	209.3	167.9	132.4	108.8	99.3	104.0	88.7	82.8	78.0	75.7
52.5°	214.0	193.9	149.0	114.7	91.0	78.0	79.2	69.8	63.8	60.3	59.1
55°	201.0	180.9	133.6	100.5	80.4	63.8	56.8	54.4	50.8	48.5	47.3
57.5°	183.3	164.3	118.2	85.1	68.6	52.0	43.7	43.7	42.6	40.2	39.0
59°	172.6	156.1	108.8	76.9	62.7	44.9	39.0	40.2	39.0	36.7	35.5
60°	164.3	149.0	101.7	70.9	59.1	41.4	35.5	37.8	36.7	34.3	33.1
62.5°	145.4	134.8	87.5	59.1	52.0	33.1	29.6	31.9	31.9	30.7	29.6
65°	127.7	115.9	74.5	49.7	48.5	28.4	23.6	28.4	29.6	27.2	24.8
67.5°	111.1	99.3	65.0	40.2	44.9	22.5	17.7	23.6	31.9	24.8	22.5
70°	94.6	82.8	50.8	31.9	47.3	15.4	14.2	21.3	37.8	27.2	21.3
72.5°	73.3	63.8	35.5	23.6	50.8	10.6	10.6	17.7	42.6	29.6	20.1
75°	50.8	41.4	21.3	14.2	41.4	7.1	7.1	16.6	40.2	27.2	18.9
77.5°	29.6	22.5	7.1	1.2	21.3	0.0	1.2	11.8	28.4	16.6	8.3
80°	10.6	4.7	0.0	0.0	13.0	0.0	0.0	0.0	2.4	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°	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7
2.5°	6898.9	7058.5	7201.6	7417.9	7674.5	7970.1	8224.3	8497.4	8754.0	8860.4	8933.7
5°	5286.2	5483.6	5714.2	6032.2	6455.5	6976.9	7465.2	8017.4	8610.9	8907.7	9186.7
7.5°	3737.3	3938.3	4224.5	4562.6	5074.6	5695.3	6333.7	7096.3	7900.3	8369.7	8832.0
10°	2687.4	2934.5	3201.7	3664.0	4184.3	4773.1	5430.4	6281.7	7177.9	7698.1	8255.0
12.5°	1829.1	2110.5	2514.8	3032.7	3643.9	4220.9	4792.0	5604.2	6644.7	7160.2	7757.3
15°	1097.2	1253.3	1681.3	2280.7	3030.3	3749.2	4374.6	5189.2	6298.3	6929.6	7550.4
17.5°	676.3	748.4	981.3	1473.2	2260.6	3169.8	4027.0	5048.5	6347.9	7116.4	7780.9
20°	539.1	567.5	642.0	870.2	1498.0	2531.4	3635.7	5020.2	6753.5	7699.3	8412.3
22.5°	468.2	495.4	545.1	632.5	942.3	1895.3	3264.4	5046.2	7335.2	8573.1	9405.4
25°	412.6	436.3	483.6	555.7	690.5	1334.8	2867.1	5162.0	8093.0	9657.3	10541.6
27.5°	368.9	389.0	432.7	498.9	592.3	931.7	2416.7	5302.7	8991.6	10766.3	11638.8
30°	328.7	346.4	385.4	446.9	514.3	716.5	1922.5	5398.5	9891.4	11638.8	12422.7
32.5°	294.4	307.4	342.9	394.9	446.9	571.1	1461.4	5383.1	10559.4	12364.8	12986.7
35°	258.9	271.9	302.7	347.6	389.0	471.7	1149.2	5095.8	11141.1	13117.9	13632.3
37.5°	219.9	236.5	266.0	306.2	334.6	415.0	929.3	4749.4	11731.1	13978.7	14352.3
40°	186.8	203.4	229.4	273.1	290.9	393.7	714.1	4327.3	12394.4	14941.1	15142.1
42.5°	154.9	170.3	197.4	235.3	274.3	339.3	528.5	3844.9	13031.6	15764.0	15862.1
45°	125.3	140.7	169.1	206.9	293.2	281.4	409.1	3328.3	13545.9	16448.6	16480.5
47.5°	99.3	113.5	143.1	195.1	273.1	224.6	292.0	2922.7	13977.5	16983.0	16899.0
50°	76.9	88.7	119.4	223.5	238.8	185.6	221.1	2787.9	14364.1	17314.0	17096.5
52.5°	60.3	70.9	98.1	209.3	185.6	153.7	185.6	2914.4	14893.8	17588.3	17207.6
55°	48.5	59.1	76.9	119.4	126.5	130.1	158.4	3032.7	15807.7	18231.5	17863.8
57.5°	40.2	50.8	62.7	83.9	95.8	110.0	140.7	3045.7	16884.8	19300.3	18952.7
59°	36.7	46.1	56.8	74.5	83.9	100.5	132.4	2974.7	17264.4	19689.3	19515.5
60°	34.3	43.7	53.2	68.6	78.0	94.6	127.7	2907.3	17280.9	19675.1	19755.5
62.5°	29.6	39.0	47.3	57.9	66.2	80.4	114.7	2657.9	16581.0	19030.8	19611.3
65°	26.0	34.3	42.6	49.7	56.8	72.1	104.0	2202.7	15385.7	17991.5	18624.1
67.5°	23.6	29.6	39.0	43.7	50.8	63.8	92.2	1570.1	13892.4	16720.5	17130.8
70°	21.3	28.4	35.5	40.2	46.1	55.6	79.2	902.1	11731.1	14859.5	15151.6
72.5°	20.1	27.2	31.9	37.8	41.4	49.7	72.1	424.5	8589.6	11903.7	12666.3
75°	17.7	24.8	29.6	35.5	39.0	44.9	61.5	203.4	5713.0	8614.5	9481.1
77.5°	10.6	20.1	27.2	31.9	34.3	39.0	50.8	117.1	3646.3	5962.5	7023.0
80°	0.0	7.1	20.1	27.2	29.6	33.1	39.0	92.2	1950.8	3406.3	4088.5
82.5°	0.0	0.0	14.2	21.3	20.1	22.5	29.6	57.9	879.7	2226.3	2508.9
85°	0.0	0.0	4.7	16.6	14.2	10.6	20.1	20.1	192.7	1126.8	1405.8
87.5°	0.0	0.0	0.0	1.2	7.1	4.7	8.3	2.4	1.2	83.9	340.5
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: P324602

CATALOG NUMBER: GLEON-SA8B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7	8129.7
2.5°	9190.2	9277.7	9425.5	9495.3	9461.0	9315.6	9141.8	8964.4	8860.4	8901.8
5°	9755.4	10205.9	10466.0	10552.3	10408.0	10081.7	9654.9	9092.1	8892.3	8837.9
7.5°	9755.4	10603.1	11139.9	11234.5	10912.9	10273.3	9472.8	8594.4	8302.3	8195.9
10°	9412.5	10566.5	11314.9	11465.0	11015.8	10059.3	8986.9	7984.3	7637.8	7527.9
12.5°	9025.9	10268.5	11057.1	11264.1	10895.2	9846.4	8649.9	7571.6	7163.7	7068.0
15°	8788.3	9902.0	10554.7	10704.8	10548.7	9722.3	8569.5	7447.5	6967.5	6875.2
17.5°	8873.4	9618.2	9853.5	9941.0	10046.3	9678.5	8788.3	7719.4	7111.7	7024.2
20°	9193.8	9319.1	9197.3	9307.3	9591.1	9721.1	9309.7	8376.8	7647.3	7530.3
22.5°	9737.7	9164.2	8822.5	8866.3	9211.5	9861.8	10106.6	9315.6	8473.8	8327.1
25°	10371.4	9289.6	8614.5	8575.4	8930.1	10047.4	10834.9	10337.1	9451.5	9289.6
27.5°	11168.3	9571.0	8571.9	8532.9	8832.0	10221.2	11440.2	11346.8	10481.3	10204.7
30°	11783.1	9847.6	8698.4	8608.5	8930.1	10341.8	11926.2	12204.0	11301.9	11118.6
32.5°	12224.1	10173.9	8904.1	8774.1	9206.8	10549.9	12301.0	12989.1	12060.9	11783.1
35°	12559.9	10528.6	9236.4	9022.4	9587.5	10865.6	12652.1	13825.0	12868.5	12564.6
37.5°	12874.4	11026.4	9755.4	9500.0	10184.6	11374.0	13023.4	14773.2	13771.8	13408.8
40°	13313.0	11590.4	10555.8	10328.8	11188.4	12066.9	13486.8	15761.6	14799.2	14342.8
42.5°	13751.7	12195.7	11375.2	11436.7	12440.5	12908.7	14085.1	16806.8	15813.7	15326.5
45°	14152.5	12820.0	12542.1	12825.9	13602.7	13832.1	14679.8	17411.0	16623.6	16153.0
47.5°	14509.5	13600.3	13702.0	14457.5	14924.5	14668.0	15124.4	17932.4	17226.5	16811.5
50°	14924.5	14610.0	15230.8	16299.6	16446.2	15424.7	15528.7	18549.6	17931.2	17597.8
52.5°	15378.6	15674.1	16923.9	17866.2	17818.9	16246.4	15935.4	19241.2	18897.2	18583.9
55°	15894.1	16533.7	18414.8	19332.3	19292.1	17163.9	16609.4	20096.1	20107.9	19824.1
57.5°	16659.0	17273.8	19426.9	20518.1	20585.5	18223.2	17751.5	21053.7	21202.7	21013.5
59°	17207.6	17753.9	19827.7	21013.5	21287.8	19042.6	18586.2	21609.4	21511.3	21338.7
60°	17614.3	18058.9	20026.3	21272.5	21695.7	19598.3	19202.2	21935.8	21548.0	21338.7
62.5°	18620.5	18723.4	20384.5	21565.7	22165.1	20832.6	20935.5	22491.5	21293.8	20952.1
65°	19089.9	19143.1	20379.8	21040.7	21711.1	21793.9	22508.0	22508.0	20673.0	20148.1
67.5°	18893.6	18637.1	19368.9	19300.3	19969.5	21222.8	23099.2	21682.7	19486.0	18807.3
70°	17297.5	16310.2	15985.1	16014.7	16526.6	18459.7	21928.7	19254.2	17239.5	16446.2
72.5°	14392.5	12024.3	11221.5	12137.8	12271.4	14186.8	18687.9	14500.1	12713.6	11969.9
75°	11576.2	8476.1	7170.8	8138.0	8365.0	10382.0	14456.3	9030.6	7426.2	6846.9
77.5°	8316.5	6084.3	5145.5	5078.1	5371.3	6584.4	10257.9	4544.9	3790.5	3537.5
80°	4724.6	4004.5	4312.0	4068.4	4216.2	4116.9	4873.6	1993.4	1632.8	1526.4
82.5°	2851.8	2367.0	2563.3	2134.1	2700.4	2351.7	1877.5	638.5	554.5	527.3
85°	1855.1	1293.5	673.9	451.6	930.5	1502.7	419.7	173.8	133.6	106.4
87.5°	639.6	329.9	33.1	14.2	99.3	280.2	15.4	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)