

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: P324601

Luminaire Tested: **GLEON-SA7B-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324601
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-SA7B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22027 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

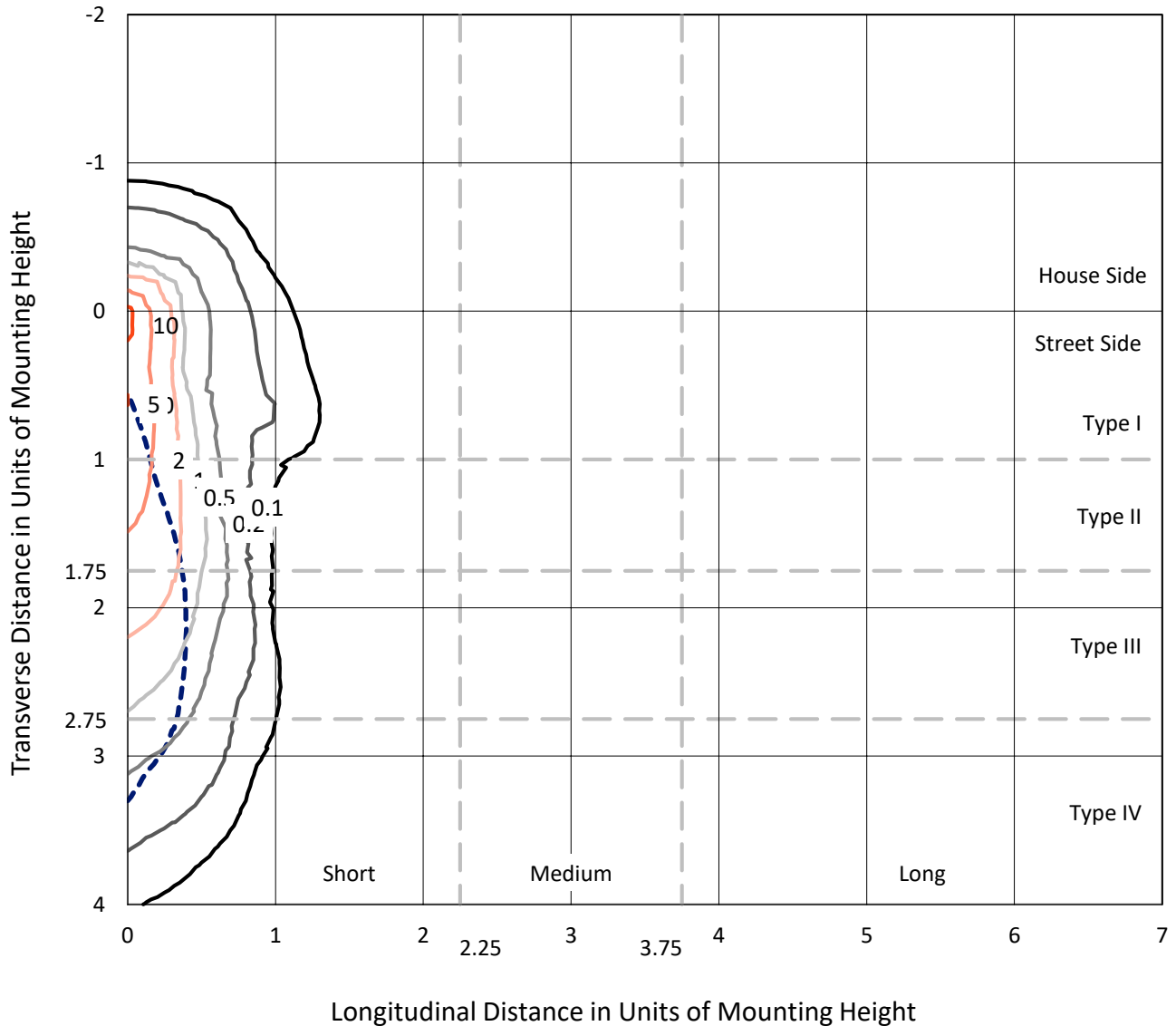
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

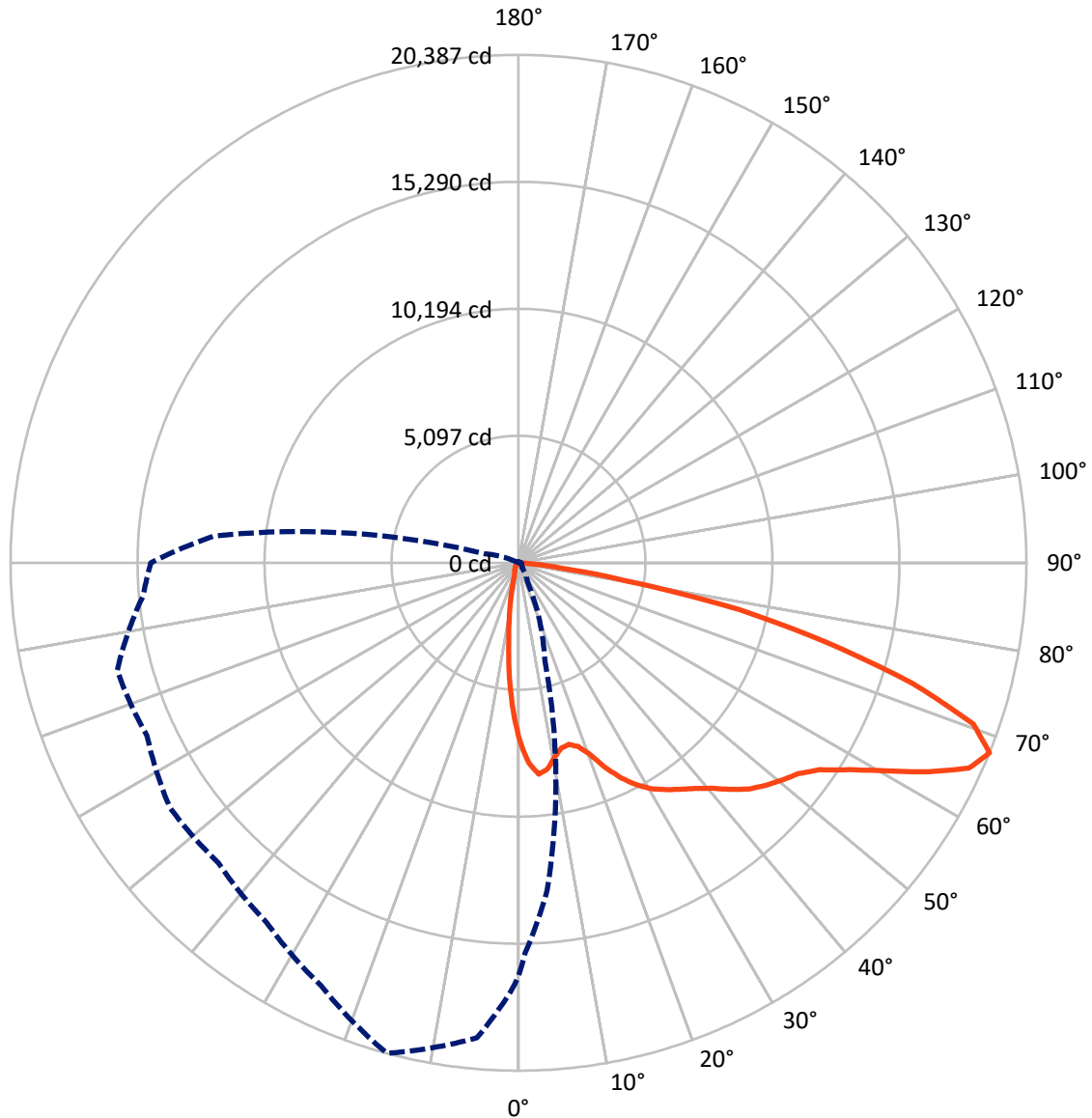
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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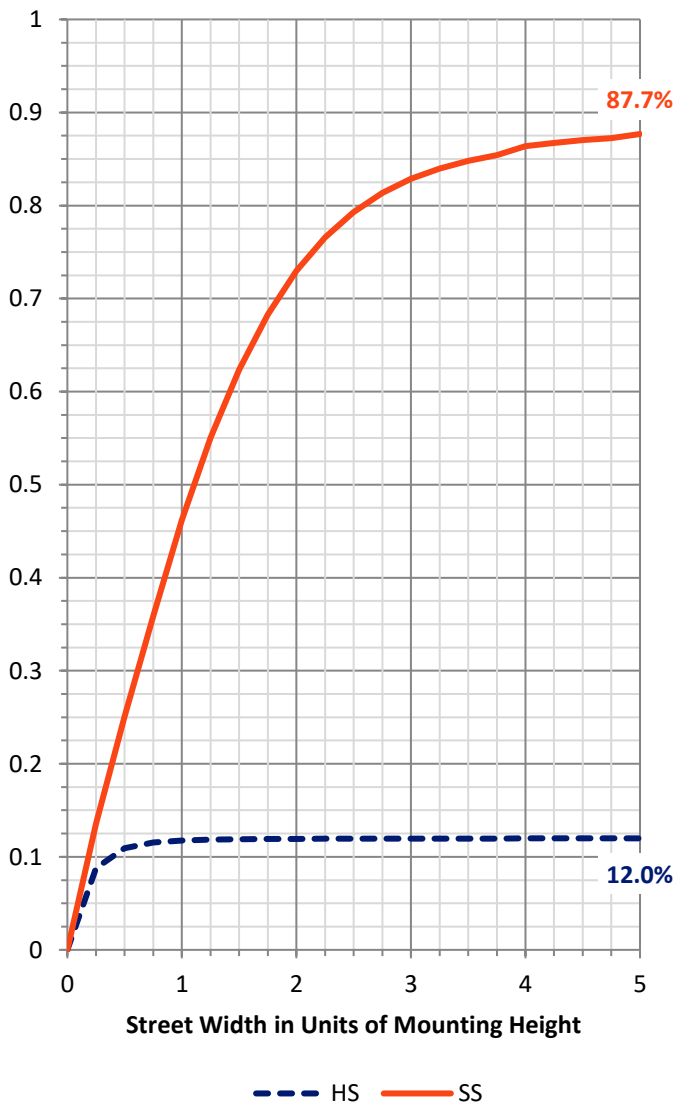
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2666.0	0.0	2666.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	19361.0	0.0	19361.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	22027.0	0.0	22027.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.7	2.5
10°-20°	1096.1	5.0
20°-30°	1556.5	7.1
30°-40°	2299.1	10.4
40°-50°	3315.8	15.1
50°-60°	4654.7	21.1
60°-70°	5426.0	24.6
70°-80°	2773.9	12.6
80°-90°	354.3	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°	22027.0	100.0
0°-180°	22027.0	100.0

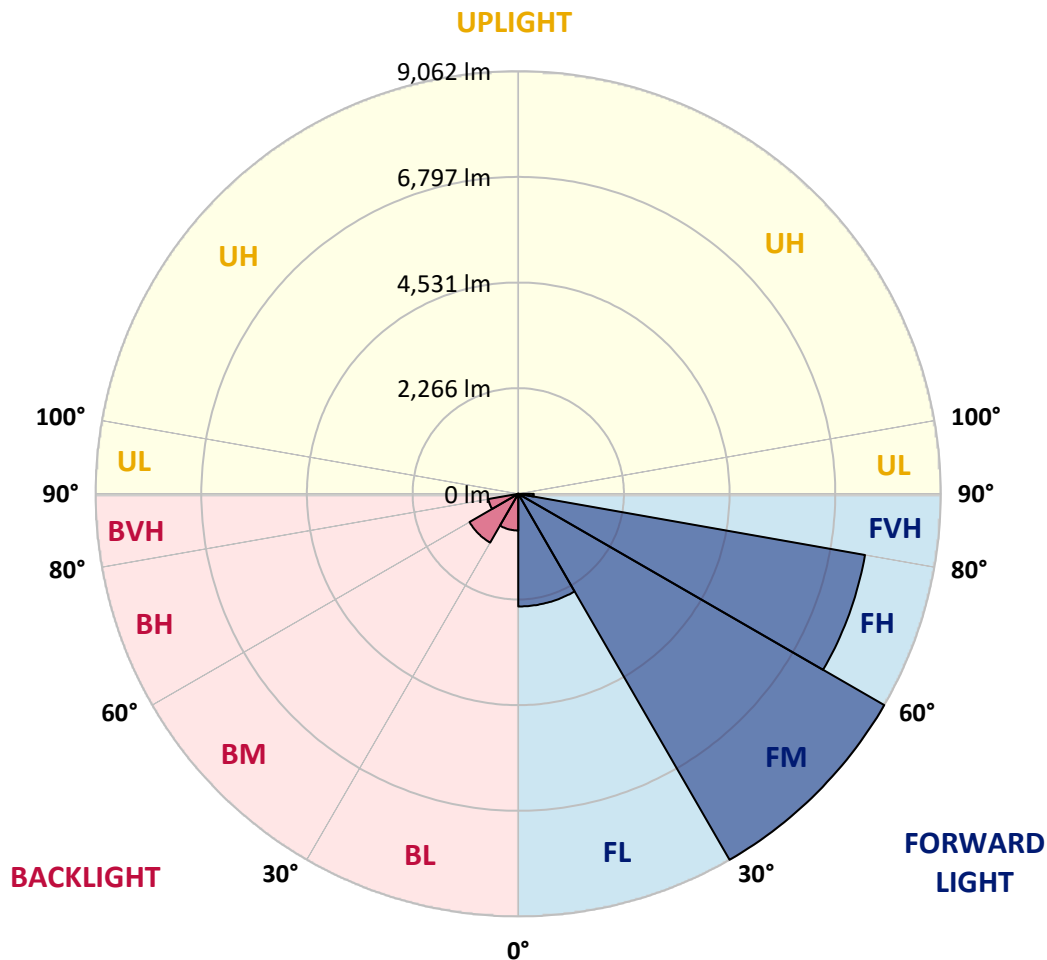


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2415.9	11.0			
FM (30°-60°)	9062.3	41.1			
FH (60°-80°)	7550.1	34.3			G4/12000
FVH (80°-90°)	332.7	1.5			G3/500
BL (0°-30°)	787.4	3.6	B2/1000		
BM (30°-60°)	1207.2	5.5	B2/2500		
BH (60°-80°)	649.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	21.5	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°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	7856.7	7796.1	7729.4	7511.3	7308.8	7077.2	6888.3	6756.8	6591.9	6378.0	6323.7
5°	7800.3	7735.6	7525.9	7040.6	6615.9	6202.7	5804.1	5570.3	5280.2	4985.9	4912.9
7.5°	7233.7	7165.9	6863.2	6198.5	5626.7	5029.8	4512.2	4191.8	3864.2	3594.9	3452.0
10°	6644.1	6570.0	6229.8	5423.2	4718.8	4179.3	3799.5	3493.7	3183.8	2895.8	2666.2
12.5°	6238.2	6141.1	5771.7	4857.6	4244.0	3877.7	3522.9	3156.7	2737.2	2428.3	2175.7
15°	6068.1	5957.5	5567.2	4639.5	4076.0	3646.1	3183.8	2734.0	2242.5	1888.8	1657.1
17.5°	6199.6	6055.6	5637.1	4624.9	3865.2	3279.8	2695.4	2167.4	1634.2	1276.2	1111.4
20°	6646.2	6457.3	5926.2	4620.7	3609.5	2844.6	2103.7	1506.8	1076.9	866.1	779.5
22.5°	7349.5	7100.1	6341.5	4654.1	3345.5	2387.6	1519.4	1023.7	808.7	699.2	648.0
25°	8198.9	7909.9	6939.4	4772.0	3113.9	1943.0	1104.0	808.7	682.5	602.1	559.3
27.5°	9006.6	8771.8	7694.9	4942.1	2934.4	1584.1	896.4	685.6	583.3	530.1	495.7
30°	9813.3	9518.0	8470.3	5144.6	2718.4	1340.9	787.9	625.1	522.8	466.5	444.5
32.5°	10399.7	10154.5	9077.6	5290.7	2487.8	1182.3	704.4	571.8	488.4	431.0	398.6
35°	11089.5	10811.9	9598.3	5323.0	2339.6	1082.1	633.4	514.5	423.7	372.5	338.1
37.5°	11834.6	11489.2	10199.4	5252.0	2223.7	1033.1	580.2	488.4	395.5	343.3	306.8
40°	12659.0	12268.7	10776.4	5149.8	2110.0	1016.4	539.5	468.5	373.6	320.4	282.8
42.5°	13527.2	13067.0	11276.3	5042.3	2038.0	959.0	535.3	448.7	356.9	299.5	261.9
45°	14256.6	13790.1	11789.7	5006.8	1986.9	896.4	553.1	435.1	345.4	282.8	246.3
47.5°	14837.8	14396.4	12315.6	5086.1	1957.6	839.0	504.0	452.9	339.1	268.2	232.7
50°	15531.8	15031.9	13056.5	5323.0	1914.9	781.6	456.0	518.6	339.1	258.8	221.2
52.5°	16402.1	15907.4	13883.0	5690.3	1829.3	702.3	410.1	519.7	342.3	246.3	206.6
55°	17496.7	17137.8	15063.2	6093.1	1692.6	585.4	354.8	446.6	329.8	223.3	193.1
57.5°	18546.5	18253.3	16139.1	6368.6	1510.0	457.1	308.9	360.0	301.6	196.2	172.2
59°	18833.5	18513.1	16533.6	6381.1	1373.3	398.6	285.9	297.4	295.3	183.7	159.7
60°	18833.5	18493.3	16647.3	6314.3	1274.1	366.3	271.3	265.1	307.8	175.3	152.4
62.5°	18492.2	18014.3	16277.9	5862.5	1039.3	312.0	236.9	219.1	276.5	157.6	134.6
65°	17782.7	17086.6	15019.4	5045.4	926.6	285.9	204.5	179.5	192.0	138.8	117.9
67.5°	16599.3	15656.0	13204.7	4076.0	881.8	278.6	176.4	152.4	145.0	119.0	103.3
70°	14515.4	13468.7	11001.8	3204.7	843.2	275.5	148.2	128.4	116.9	100.2	87.7
72.5°	10564.6	9473.1	7810.8	2505.5	820.2	281.8	119.0	107.5	96.0	78.3	67.8
75°	6043.0	5328.2	4390.1	1655.0	699.2	269.2	91.8	89.7	68.9	56.4	47.0
77.5°	3122.2	3027.3	2630.7	635.5	335.0	117.9	60.5	52.2	40.7	34.4	28.2
80°	1347.2	1332.6	1153.1	183.7	88.7	65.7	34.4	21.9	18.8	14.6	11.5
82.5°	465.4	465.4	410.1	61.6	39.7	32.3	4.2	0.0	0.0	0.0	0.0
85°	93.9	105.4	74.1	0.0	13.6	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°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	6258.0	6131.7	6123.4	6044.1	5944.9	5900.1	5874.0	5919.9	5976.2	5982.5	6067.0
5°	4857.6	4725.1	4780.4	4639.5	4667.7	4639.5	4593.6	4601.9	4627.0	4548.7	4645.8
7.5°	3411.3	3311.1	3374.7	3337.2	3387.3	3407.1	3378.9	3337.2	3214.0	3199.4	3284.0
10°	2571.2	2457.5	2389.7	2318.7	2334.4	2366.7	2356.3	2326.0	2247.7	2251.9	2333.3
12.5°	2066.2	1938.9	1804.2	1630.0	1587.2	1611.2	1587.2	1569.5	1494.3	1500.6	1572.6
15°	1567.4	1463.0	1322.1	1182.3	1106.1	1113.4	1046.7	999.7	952.7	896.4	940.2
17.5°	1058.1	994.5	952.7	911.0	820.2	799.3	714.8	624.0	588.5	562.5	581.2
20°	749.2	714.8	698.1	696.0	643.9	617.8	535.3	479.0	461.2	456.0	467.5
22.5°	626.1	601.1	577.1	563.5	537.4	507.2	444.5	416.4	403.8	397.6	405.9
25°	544.7	525.9	500.9	477.9	467.5	435.1	390.3	369.4	361.1	354.8	359.0
27.5°	484.2	467.5	438.3	423.7	415.3	387.1	348.5	331.8	324.5	322.4	321.4
30°	436.2	420.5	393.4	376.7	362.1	337.1	314.1	297.4	290.1	288.0	285.9
32.5°	388.2	375.7	357.9	341.2	325.6	302.6	282.8	269.2	257.7	255.7	254.6
35°	327.7	315.1	305.8	304.7	290.1	268.2	253.6	235.8	226.4	223.3	224.4
37.5°	291.1	274.4	253.6	260.9	256.7	241.1	221.2	203.5	194.1	192.0	192.0
40°	268.2	250.4	226.4	213.9	226.4	223.3	192.0	174.3	164.9	163.8	161.7
42.5°	246.3	228.5	201.4	180.5	186.8	196.2	165.9	149.2	139.8	137.7	134.6
45°	230.6	211.8	181.6	157.6	145.0	164.9	141.9	121.0	115.8	111.7	109.6
47.5°	216.0	198.3	163.8	136.7	115.8	119.0	113.7	99.1	92.9	88.7	87.7
50°	203.5	184.7	148.2	116.9	96.0	87.7	91.8	78.3	73.0	68.9	66.8
52.5°	188.9	171.1	131.5	101.2	80.4	68.9	69.9	61.6	56.4	53.2	52.2
55°	177.4	159.7	117.9	88.7	71.0	56.4	50.1	48.0	44.9	42.8	41.7
57.5°	161.7	145.0	104.4	75.1	60.5	45.9	38.6	38.6	37.6	35.5	34.4
59°	152.4	137.7	96.0	67.8	55.3	39.7	34.4	35.5	34.4	32.3	31.3
60°	145.0	131.5	89.7	62.6	52.2	36.5	31.3	33.4	32.3	30.3	29.2
62.5°	128.4	119.0	77.2	52.2	45.9	29.2	26.1	28.2	28.2	27.1	26.1
65°	112.7	102.3	65.7	43.8	42.8	25.0	20.9	25.0	26.1	24.0	21.9
67.5°	98.1	87.7	57.4	35.5	39.7	19.8	15.7	20.9	28.2	21.9	19.8
70°	83.5	73.0	44.9	28.2	41.7	13.6	12.5	18.8	33.4	24.0	18.8
72.5°	64.7	56.4	31.3	20.9	44.9	9.4	9.4	15.7	37.6	26.1	17.7
75°	44.9	36.5	18.8	12.5	36.5	6.3	6.3	14.6	35.5	24.0	16.7
77.5°	26.1	19.8	6.3	1.0	18.8	0.0	1.0	10.4	25.0	14.6	7.3
80°	9.4	4.2	0.0	0.0	11.5	0.0	0.0	0.0	2.1	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°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	6088.9	6229.8	6356.1	6547.1	6773.5	7034.4	7258.7	7499.8	7726.2	7820.2	7884.8
5°	4665.6	4839.9	5043.3	5324.0	5697.6	6157.8	6588.8	7076.1	7600.0	7861.9	8108.2
7.5°	3298.6	3476.0	3728.5	4026.9	4478.8	5026.6	5590.1	6263.2	6972.8	7387.1	7795.1
10°	2371.9	2590.0	2825.9	3233.9	3693.0	4212.7	4792.9	5544.2	6335.2	6794.4	7285.9
12.5°	1614.3	1862.7	2219.6	2676.6	3216.1	3725.4	4229.4	4946.3	5864.6	6319.6	6846.5
15°	968.4	1106.1	1483.9	2013.0	2674.5	3309.0	3861.0	4580.0	5558.8	6116.1	6663.9
17.5°	596.9	660.5	866.1	1300.2	1995.2	2797.7	3554.2	4455.8	5602.7	6281.0	6867.4
20°	475.8	500.9	566.6	768.0	1322.1	2234.2	3208.8	4430.8	5960.6	6795.4	7424.7
22.5°	413.2	437.2	481.1	558.3	831.7	1672.8	2881.2	4453.8	6474.0	7566.6	8301.2
25°	364.2	385.1	426.8	490.5	609.4	1178.1	2530.5	4556.0	7142.9	8523.5	9304.0
27.5°	325.6	343.3	381.9	440.4	522.8	822.3	2133.0	4680.2	7936.0	9502.3	10272.4
30°	290.1	305.8	340.2	394.5	453.9	632.4	1696.8	4764.7	8730.1	10272.4	10964.3
32.5°	259.8	271.3	302.6	348.5	394.5	504.0	1289.8	4751.2	9319.7	10913.1	11462.0
35°	228.5	240.0	267.1	306.8	343.3	416.4	1014.3	4497.6	9833.1	11577.9	12031.8
37.5°	194.1	208.7	234.8	270.3	295.3	366.3	820.2	4191.8	10353.8	12337.6	12667.3
40°	164.9	179.5	202.4	241.1	256.7	347.5	630.3	3819.3	10939.2	13187.0	13364.4
42.5°	136.7	150.3	174.3	207.7	242.1	299.5	466.5	3393.5	11501.7	13913.3	13999.9
45°	110.6	124.2	149.2	182.6	258.8	248.4	361.1	2937.5	11955.6	14517.5	14545.6
47.5°	87.7	100.2	126.3	172.2	241.1	198.3	257.7	2579.6	12336.5	14989.1	14915.1
50°	67.8	78.3	105.4	197.2	210.8	163.8	195.1	2460.6	12677.7	15281.3	15089.3
52.5°	53.2	62.6	86.6	184.7	163.8	135.7	163.8	2572.3	13145.2	15523.4	15187.4
55°	42.8	52.2	67.8	105.4	111.7	114.8	139.8	2676.6	13951.9	16091.1	15766.6
57.5°	35.5	44.9	55.3	74.1	84.5	97.0	124.2	2688.1	14902.5	17034.4	16727.7
59°	32.3	40.7	50.1	65.7	74.1	88.7	116.9	2625.5	15237.5	17377.8	17224.4
60°	30.3	38.6	47.0	60.5	68.9	83.5	112.7	2566.0	15252.1	17365.2	17436.2
62.5°	26.1	34.4	41.7	51.1	58.4	71.0	101.2	2345.8	14634.3	16796.5	17308.9
65°	23.0	30.3	37.6	43.8	50.1	63.7	91.8	1944.1	13579.3	15879.3	16437.6
67.5°	20.9	26.1	34.4	38.6	44.9	56.4	81.4	1385.8	12261.4	14757.5	15119.6
70°	18.8	25.0	31.3	35.5	40.7	49.0	69.9	796.2	10353.8	13115.0	13372.7
72.5°	17.7	24.0	28.2	33.4	36.5	43.8	63.7	374.6	7581.2	10506.2	11179.2
75°	15.7	21.9	26.1	31.3	34.4	39.7	54.3	179.5	5042.3	7603.1	8368.0
77.5°	9.4	17.7	24.0	28.2	30.3	34.4	44.9	103.3	3218.2	5262.5	6198.5
80°	0.0	6.3	17.7	24.0	26.1	29.2	34.4	81.4	1721.8	3006.4	3608.5
82.5°	0.0	0.0	12.5	18.8	17.7	19.8	26.1	51.1	776.4	1965.0	2214.4
85°	0.0	0.0	4.2	14.6	12.5	9.4	17.7	17.7	170.1	994.5	1240.7
87.5°	0.0	0.0	0.0	1.0	6.3	4.2	7.3	2.1	1.0	74.1	300.5
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: P324601

CATALOG NUMBER: GLEON-SA7B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	8111.3	8188.5	8319.0	8380.5	8350.3	8221.9	8068.5	7912.0	7820.2	7856.7
5°	8610.1	9007.7	9237.3	9313.4	9186.1	8898.1	8521.4	8024.7	7848.3	7800.3
7.5°	8610.1	9358.3	9832.1	9915.5	9631.7	9067.2	8360.7	7585.4	7327.6	7233.7
10°	8307.5	9326.0	9986.5	10119.0	9722.5	8878.3	7931.8	7046.9	6741.1	6644.1
12.5°	7966.2	9063.0	9759.0	9941.6	9616.1	8690.4	7634.4	6682.7	6322.7	6238.2
15°	7756.5	8739.5	9315.5	9448.0	9310.3	8580.9	7563.4	6573.1	6149.5	6068.1
17.5°	7831.6	8489.0	8696.7	8773.9	8866.8	8542.3	7756.5	6813.2	6276.8	6199.6
20°	8114.4	8225.0	8117.6	8214.6	8465.0	8579.8	8216.7	7393.4	6749.5	6646.2
22.5°	8594.4	8088.3	7786.8	7825.4	8130.1	8704.0	8920.0	8221.9	7478.9	7349.5
25°	9153.8	8198.9	7603.1	7568.7	7881.7	8867.8	9562.8	9123.5	8341.9	8198.9
27.5°	9857.1	8447.3	7565.5	7531.1	7795.1	9021.2	10097.1	10014.7	9250.8	9006.6
30°	10399.7	8691.5	7677.2	7597.9	7881.7	9127.7	10526.0	10771.2	9975.0	9813.3
32.5°	10789.0	8979.5	7858.8	7744.0	8125.9	9311.3	10856.8	11464.1	10645.0	10399.7
35°	11085.3	9292.6	8152.0	7963.1	8461.9	9590.0	11166.7	12201.9	11357.7	11089.5
37.5°	11362.9	9731.9	8610.1	8384.7	8988.9	10038.7	11494.4	13038.8	12154.9	11834.6
40°	11750.1	10229.6	9316.6	9116.2	9874.8	10650.2	11903.5	13911.2	13061.8	12659.0
42.5°	12137.2	10763.9	10039.7	10094.0	10979.9	11393.2	12431.5	14833.7	13957.1	13527.2
45°	12491.0	11314.9	11069.7	11320.1	12005.7	12208.2	12956.4	15366.9	14671.9	14256.6
47.5°	12806.1	12003.6	12093.4	12760.2	13172.4	12945.9	13348.7	15827.1	15204.1	14837.8
50°	13172.4	12894.8	13442.6	14386.0	14515.4	13613.8	13705.6	16371.8	15826.0	15531.8
52.5°	13573.1	13834.0	14937.0	15768.7	15726.9	14339.0	14064.6	16982.3	16678.6	16402.1
55°	14028.1	14592.6	16252.8	17062.6	17027.1	15148.8	14659.4	17736.7	17747.2	17496.7
57.5°	14703.2	15245.9	17146.1	18109.3	18168.8	16083.8	15667.4	18582.0	18713.5	18546.5
59°	15187.4	15669.5	17499.9	18546.5	18788.6	16807.0	16404.2	19072.4	18985.8	18833.5
60°	15546.4	15938.7	17675.2	18775.0	19148.6	17297.4	16947.8	19360.5	19018.2	18833.5
62.5°	16434.4	16525.2	17991.4	19033.8	19562.9	18386.9	18477.6	19850.9	18793.8	18492.2
65°	16848.7	16895.7	17987.2	18570.5	19162.2	19235.2	19865.5	19865.5	18246.0	17782.7
67.5°	16675.5	16449.0	17095.0	17034.4	17625.1	18731.2	20387.3	19137.1	17198.3	16599.3
70°	15266.7	14395.4	14108.4	14134.5	14586.3	16292.5	19354.2	16993.7	15215.6	14515.4
72.5°	12702.8	10612.6	9904.1	10712.8	10830.7	12521.2	16493.9	12797.7	11221.0	10564.6
75°	10217.1	7481.0	6329.0	7182.6	7382.9	9163.2	12759.1	7970.4	6554.4	6043.0
77.5°	7340.1	5370.0	4541.4	4481.9	4740.7	5811.4	9053.6	4011.3	3345.5	3122.2
80°	4169.9	3534.4	3805.7	3590.8	3721.2	3633.5	4301.4	1759.4	1441.1	1347.2
82.5°	2517.0	2089.1	2262.4	1883.6	2383.4	2075.6	1657.1	563.5	489.4	465.4
85°	1637.3	1141.6	594.8	398.6	821.3	1326.3	370.5	153.4	117.9	93.9
87.5°	564.5	291.1	29.2	12.5	87.7	247.3	13.6	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)