

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: P324599

Luminaire Tested: **GLEON-SA5B-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324599
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-SA5B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 15565 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

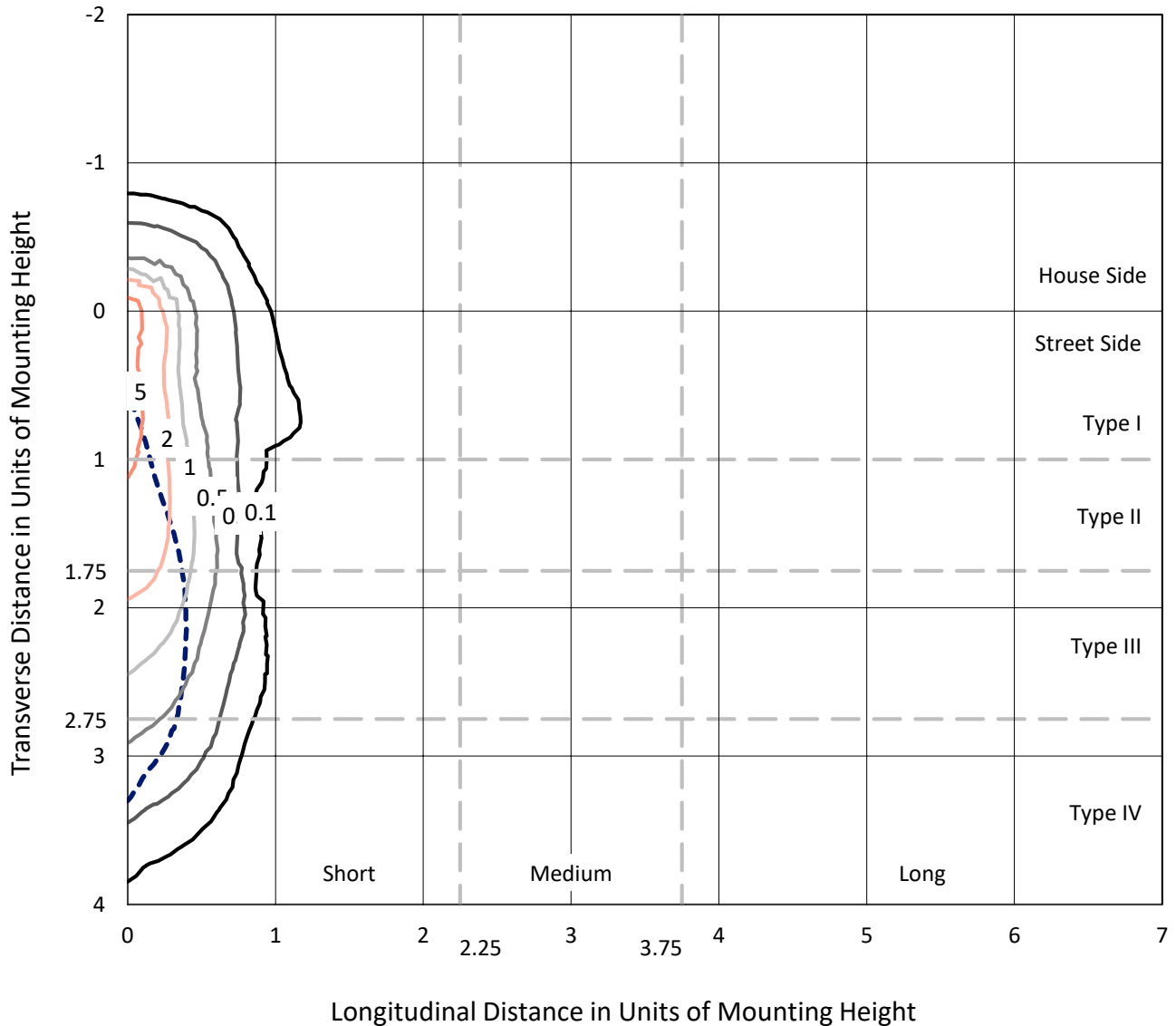
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

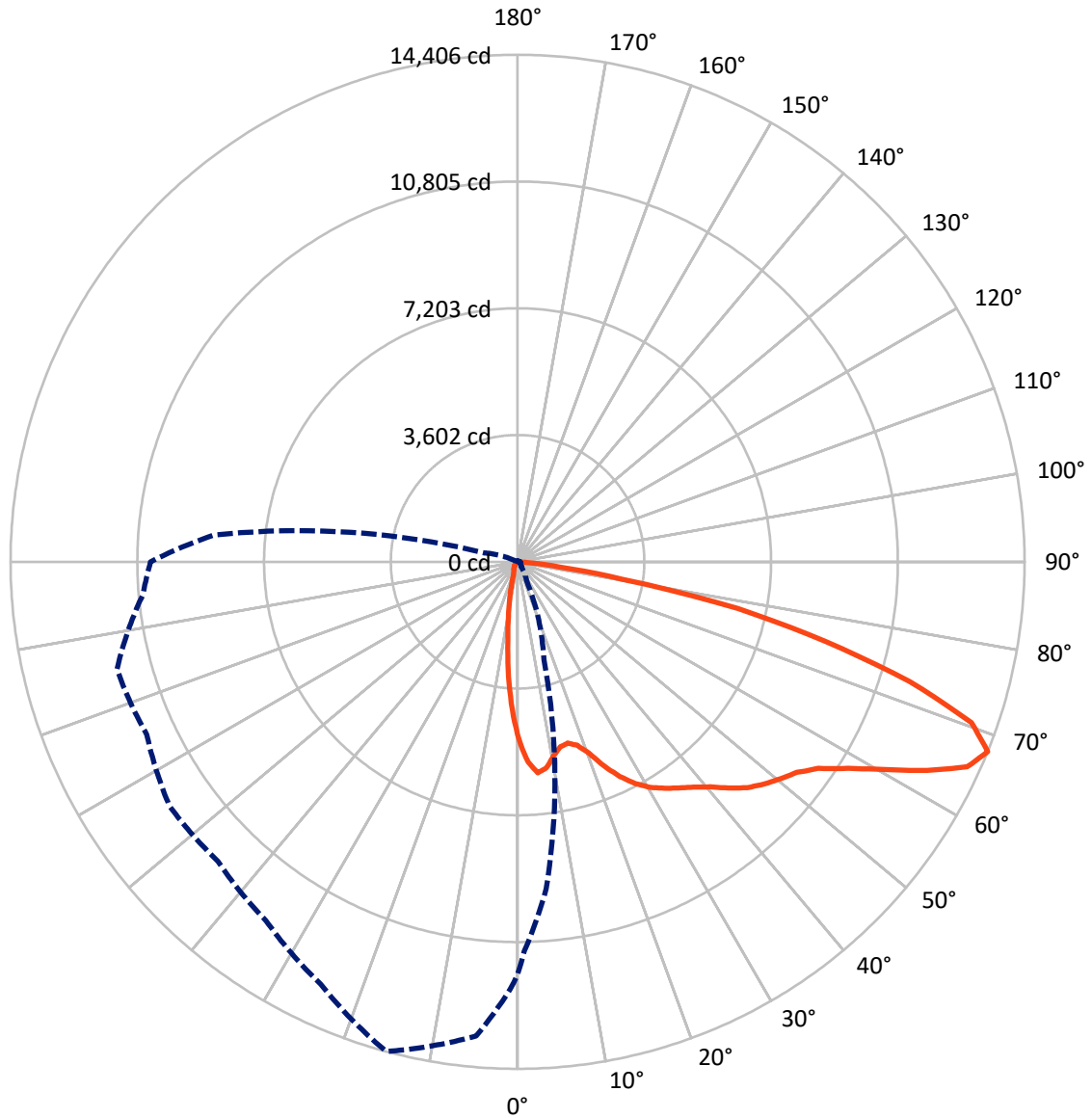
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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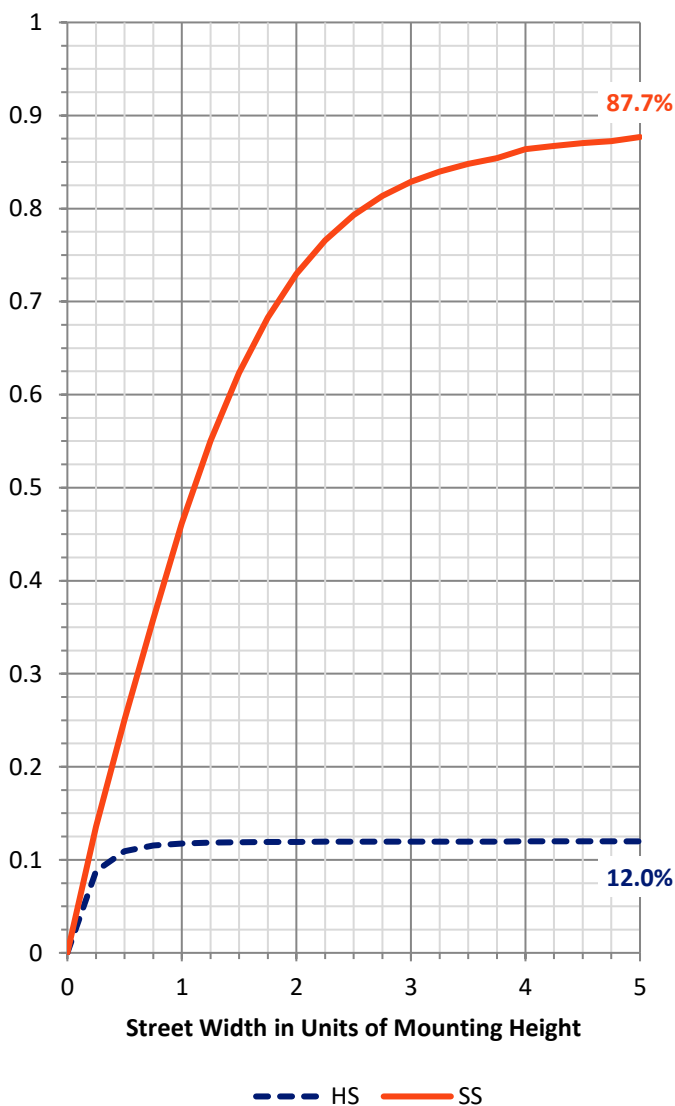
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.9	0.0	1883.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13681.1	0.0	13681.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	15565.0	0.0	15565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	2.5
10°-20°	774.6	5.0
20°-30°	1099.9	7.1
30°-40°	1624.6	10.4
40°-50°	2343.0	15.1
50°-60°	3289.1	21.1
60°-70°	3834.2	24.6
70°-80°	1960.1	12.6
80°-90°	250.3	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°	15565.0	100.0
0°-180°	15565.0	100.0

Coefficient of Utilization



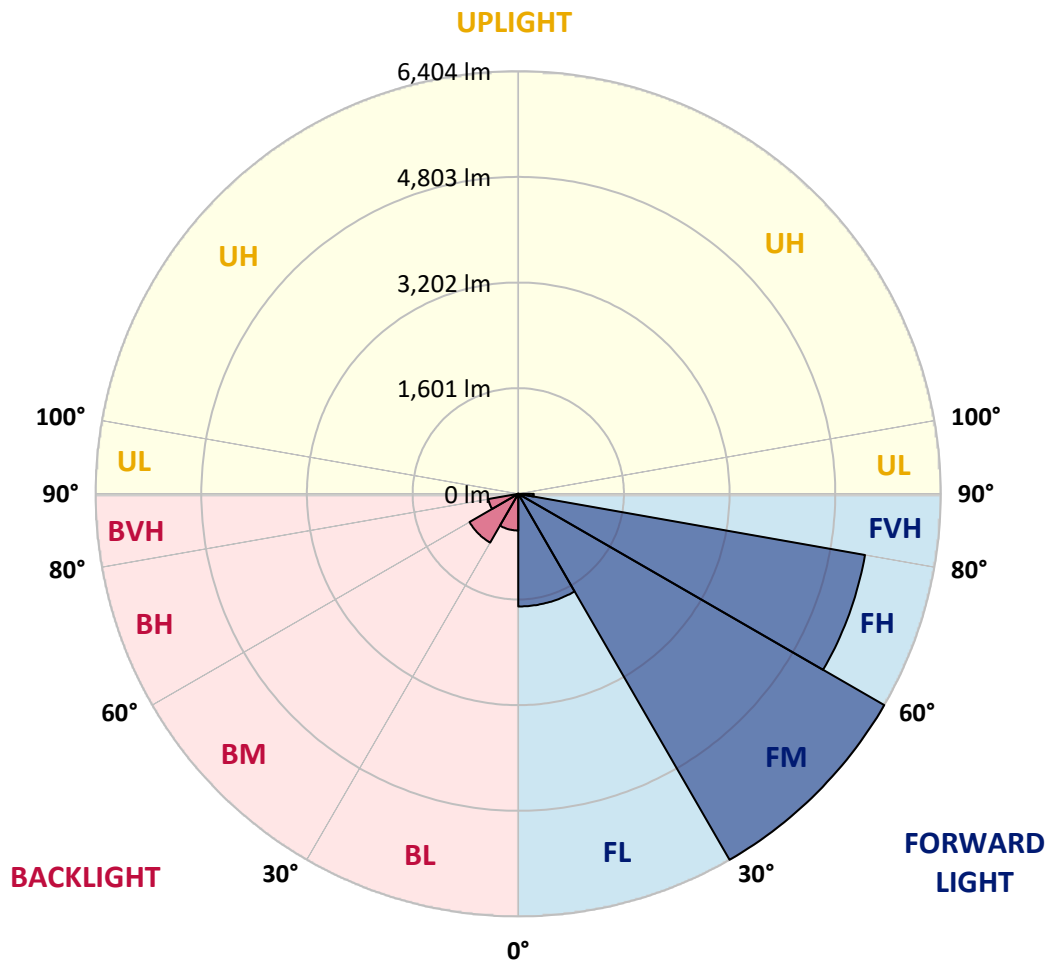
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.2	11.0			
FM (30°-60°)	6403.7	41.1			
FH (60°-80°)	5335.1	34.3			G3/7500
FVH (80°-90°)	235.1	1.5			G3/500
BL (0°-30°)	556.4	3.6	B2/1000		
BM (30°-60°)	853.1	5.5	B1/1000		
BH (60°-80°)	459.1	2.9	B1/500		G1/500
BVH (80°-90°)	15.2	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3
2.5°	5551.8	5509.0	5461.8	5307.7	5164.7	5001.0	4867.5	4774.6	4658.1	4506.9	4468.6
5°	5512.0	5466.2	5318.0	4975.1	4675.0	4383.0	4101.3	3936.2	3731.2	3523.2	3471.6
7.5°	5111.6	5063.6	4849.8	4380.1	3976.0	3554.2	3188.5	2962.1	2730.5	2540.3	2439.3
10°	4694.9	4642.6	4402.2	3832.2	3334.5	2953.2	2684.8	2468.8	2249.8	2046.2	1884.0
12.5°	4408.1	4339.5	4078.5	3432.5	2999.0	2740.1	2489.4	2230.6	1934.2	1715.9	1537.5
15°	4287.9	4209.7	3934.0	3278.4	2880.2	2576.4	2249.8	1932.0	1584.6	1334.7	1171.0
17.5°	4380.8	4279.1	3983.4	3268.1	2731.3	2317.6	1904.7	1531.6	1154.7	901.8	785.3
20°	4696.4	4562.9	4187.6	3265.1	2550.6	2010.1	1486.6	1064.8	761.0	612.0	550.8
22.5°	5193.4	5017.2	4481.1	3288.7	2364.1	1687.1	1073.6	723.4	571.5	494.0	457.9
25°	5793.6	5589.4	4903.6	3372.1	2200.4	1373.0	780.2	571.5	482.3	425.5	395.2
27.5°	6364.4	6198.5	5437.5	3492.3	2073.5	1119.4	633.4	484.5	412.2	374.6	350.3
30°	6934.4	6725.7	5985.4	3635.3	1920.9	947.5	556.7	441.7	369.4	329.6	314.1
32.5°	7348.8	7175.5	6414.5	3738.5	1757.9	835.5	497.7	404.1	345.1	304.5	281.7
35°	7836.2	7640.1	6782.5	3761.4	1653.2	764.7	447.6	363.5	299.4	263.2	238.9
37.5°	8362.7	8118.6	7207.2	3711.3	1571.4	730.0	410.0	345.1	279.5	242.6	216.8
40°	8945.2	8669.5	7615.0	3639.0	1491.0	718.2	381.2	331.1	264.0	226.4	199.8
42.5°	9558.7	9233.6	7968.2	3563.1	1440.1	677.7	378.3	317.1	252.2	211.6	185.1
45°	10074.2	9744.6	8331.0	3538.0	1404.0	633.4	390.8	307.5	244.1	199.8	174.0
47.5°	10484.9	10173.0	8702.6	3594.0	1383.3	592.9	356.2	320.0	239.7	189.5	164.4
50°	10975.3	10622.1	9226.2	3761.4	1353.1	552.3	322.2	366.5	239.7	182.9	156.3
52.5°	11590.2	11240.7	9810.2	4021.0	1292.6	496.3	289.8	367.2	241.9	174.0	146.0
55°	12363.8	12110.1	10644.2	4305.6	1196.0	413.7	250.7	315.6	233.0	157.8	136.4
57.5°	13105.6	12898.4	11404.4	4500.3	1067.0	323.0	218.3	254.4	213.1	138.6	121.7
59°	13308.4	13082.0	11683.2	4509.1	970.4	281.7	202.0	210.2	208.7	129.8	112.8
60°	13308.4	13068.0	11763.5	4461.9	900.3	258.8	191.7	187.3	217.5	123.9	107.7
62.5°	13067.2	12729.5	11502.5	4142.6	734.4	220.5	167.4	154.9	195.4	111.3	95.1
65°	12565.8	12074.0	10613.2	3565.3	654.8	202.0	144.5	126.8	135.7	98.1	83.3
67.5°	11729.6	11063.0	9330.9	2880.2	623.1	196.9	124.6	107.7	102.5	84.1	73.0
70°	10257.0	9517.4	7774.3	2264.5	595.8	194.7	104.7	90.7	82.6	70.8	61.9
72.5°	7465.3	6694.0	5519.3	1770.5	579.6	199.1	84.1	76.0	67.8	55.3	47.9
75°	4270.2	3765.1	3102.2	1169.5	494.0	190.2	64.9	63.4	48.7	39.8	33.2
77.5°	2206.3	2139.2	1859.0	449.1	236.7	83.3	42.8	36.9	28.8	24.3	19.9
80°	952.0	941.6	814.8	129.8	62.7	46.5	24.3	15.5	13.3	10.3	8.1
82.5°	328.9	328.9	289.8	43.5	28.0	22.9	2.9	0.0	0.0	0.0	0.0
85°	66.4	74.5	52.4	0.0	9.6	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°	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3
2.5°	4422.1	4332.9	4327.0	4270.9	4200.9	4169.2	4150.7	4183.2	4223.0	4227.4	4287.2
5°	3432.5	3338.9	3378.0	3278.4	3298.3	3278.4	3246.0	3251.9	3269.6	3214.3	3282.8
7.5°	2410.5	2339.7	2384.7	2358.2	2393.6	2407.6	2387.7	2358.2	2271.2	2260.8	2320.6
10°	1816.9	1736.5	1688.6	1638.5	1649.5	1672.4	1665.0	1643.6	1588.3	1591.3	1648.8
12.5°	1460.0	1370.1	1274.9	1151.8	1121.6	1138.5	1121.6	1109.0	1055.9	1060.4	1111.2
15°	1107.6	1033.8	934.3	835.5	781.6	786.8	739.6	706.4	673.2	633.4	664.4
17.5°	747.7	702.7	673.2	643.7	579.6	564.8	505.1	441.0	415.9	397.5	410.7
20°	529.4	505.1	493.3	491.8	455.0	436.5	378.3	338.5	325.9	322.2	330.3
22.5°	442.4	424.7	407.8	398.2	379.8	358.4	314.1	294.2	285.4	280.9	286.8
25°	384.9	371.6	353.9	337.7	330.3	307.5	275.8	261.0	255.1	250.7	253.7
27.5°	342.1	330.3	309.7	299.4	293.5	273.6	246.3	234.5	229.3	227.9	227.1
30°	308.2	297.2	278.0	266.2	255.9	238.2	222.0	210.2	205.0	203.5	202.0
32.5°	274.3	265.5	252.9	241.1	230.1	213.8	199.8	190.2	182.1	180.7	179.9
35°	231.5	222.7	216.1	215.3	205.0	189.5	179.2	166.6	160.0	157.8	158.5
37.5°	205.7	193.9	179.2	184.3	181.4	170.3	156.3	143.8	137.2	135.7	135.7
40°	189.5	177.0	160.0	151.2	160.0	157.8	135.7	123.1	116.5	115.8	114.3
42.5°	174.0	161.5	142.3	127.6	132.0	138.6	117.2	105.4	98.8	97.3	95.1
45°	163.0	149.7	128.3	111.3	102.5	116.5	100.3	85.5	81.8	78.9	77.4
47.5°	152.6	140.1	115.8	96.6	81.8	84.1	80.4	70.1	65.6	62.7	61.9
50°	143.8	130.5	104.7	82.6	67.8	61.9	64.9	55.3	51.6	48.7	47.2
52.5°	133.5	120.9	92.9	71.5	56.8	48.7	49.4	43.5	39.8	37.6	36.9
55°	125.4	112.8	83.3	62.7	50.1	39.8	35.4	33.9	31.7	30.2	29.5
57.5°	114.3	102.5	73.7	53.1	42.8	32.4	27.3	27.3	26.5	25.1	24.3
59°	107.7	97.3	67.8	47.9	39.1	28.0	24.3	25.1	24.3	22.9	22.1
60°	102.5	92.9	63.4	44.2	36.9	25.8	22.1	23.6	22.9	21.4	20.6
62.5°	90.7	84.1	54.6	36.9	32.4	20.6	18.4	19.9	19.9	19.2	18.4
65°	79.6	72.3	46.5	31.0	30.2	17.7	14.7	17.7	18.4	17.0	15.5
67.5°	69.3	61.9	40.6	25.1	28.0	14.0	11.1	14.7	19.9	15.5	14.0
70°	59.0	51.6	31.7	19.9	29.5	9.6	8.8	13.3	23.6	17.0	13.3
72.5°	45.7	39.8	22.1	14.7	31.7	6.6	6.6	11.1	26.5	18.4	12.5
75°	31.7	25.8	13.3	8.8	25.8	4.4	4.4	10.3	25.1	17.0	11.8
77.5°	18.4	14.0	4.4	0.7	13.3	0.0	0.7	7.4	17.7	10.3	5.2
80°	6.6	2.9	0.0	0.0	8.1	0.0	0.0	0.0	1.5	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°	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3
2.5°	4302.7	4402.2	4491.4	4626.4	4786.4	4970.7	5129.3	5299.6	5459.6	5526.0	5571.7
5°	3296.9	3420.0	3563.8	3762.1	4026.1	4351.3	4655.9	5000.2	5370.4	5555.5	5729.5
7.5°	2330.9	2456.2	2634.7	2845.6	3164.9	3552.0	3950.2	4425.8	4927.2	5220.0	5508.3
10°	1676.1	1830.2	1996.8	2285.2	2609.6	2976.8	3386.8	3917.7	4476.7	4801.1	5148.4
12.5°	1140.7	1316.2	1568.4	1891.4	2272.6	2632.5	2988.6	3495.2	4144.1	4465.6	4838.0
15°	684.3	781.6	1048.6	1422.4	1889.9	2338.3	2728.3	3236.4	3928.1	4321.8	4709.0
17.5°	421.8	466.8	612.0	918.8	1409.9	1976.9	2511.5	3148.6	3959.0	4438.3	4852.7
20°	336.2	353.9	400.4	542.7	934.3	1578.7	2267.5	3130.9	4212.0	4801.9	5246.5
22.5°	292.0	309.0	339.9	394.5	587.7	1182.0	2035.9	3147.2	4574.7	5346.8	5865.9
25°	257.3	272.1	301.6	346.6	430.6	832.5	1788.2	3219.4	5047.4	6023.0	6574.5
27.5°	230.1	242.6	269.9	311.2	369.4	581.1	1507.2	3307.2	5607.8	6714.6	7258.8
30°	205.0	216.1	240.4	278.7	320.8	446.9	1199.0	3366.9	6169.0	7258.8	7747.7
32.5°	183.6	191.7	213.8	246.3	278.7	356.2	911.4	3357.3	6585.6	7711.6	8099.5
35°	161.5	169.6	188.8	216.8	242.6	294.2	716.7	3178.1	6948.4	8181.3	8502.1
37.5°	137.2	147.5	165.9	191.0	208.7	258.8	579.6	2962.1	7316.3	8718.1	8951.1
40°	116.5	126.8	143.1	170.3	181.4	245.5	445.4	2698.8	7730.0	9318.4	9443.7
42.5°	96.6	106.2	123.1	146.7	171.1	211.6	329.6	2398.0	8127.5	9831.6	9892.8
45°	78.2	87.7	105.4	129.0	182.9	175.5	255.1	2075.7	8448.2	10258.5	10278.4
47.5°	61.9	70.8	89.2	121.7	170.3	140.1	182.1	1822.8	8717.4	10591.8	10539.5
50°	47.9	55.3	74.5	139.4	149.0	115.8	137.9	1738.8	8958.5	10798.3	10662.6
52.5°	37.6	44.2	61.2	130.5	115.8	95.9	115.8	1817.7	9288.9	10969.4	10731.9
55°	30.2	36.9	47.9	74.5	78.9	81.1	98.8	1891.4	9858.9	11370.5	11141.2
57.5°	25.1	31.7	39.1	52.4	59.7	68.6	87.7	1899.5	10530.6	12037.1	11820.3
59°	22.9	28.8	35.4	46.5	52.4	62.7	82.6	1855.3	10767.3	12279.7	12171.3
60°	21.4	27.3	33.2	42.8	48.7	59.0	79.6	1813.2	10777.6	12270.8	12321.0
62.5°	18.4	24.3	29.5	36.1	41.3	50.1	71.5	1657.6	10341.1	11869.0	12231.0
65°	16.2	21.4	26.5	31.0	35.4	45.0	64.9	1373.8	9595.6	11220.8	11615.3
67.5°	14.7	18.4	24.3	27.3	31.7	39.8	57.5	979.2	8664.3	10428.1	10684.0
70°	13.3	17.7	22.1	25.1	28.8	34.7	49.4	562.6	7316.3	9267.5	9449.6
72.5°	12.5	17.0	19.9	23.6	25.8	31.0	45.0	264.7	5357.1	7424.0	7899.6
75°	11.1	15.5	18.4	22.1	24.3	28.0	38.3	126.8	3563.1	5372.6	5913.1
77.5°	6.6	12.5	17.0	19.9	21.4	24.3	31.7	73.0	2274.1	3718.6	4380.1
80°	0.0	4.4	12.5	17.0	18.4	20.6	24.3	57.5	1216.7	2124.4	2549.9
82.5°	0.0	0.0	8.8	13.3	12.5	14.0	18.4	36.1	548.6	1388.5	1564.7
85°	0.0	0.0	2.9	10.3	8.8	6.6	12.5	12.5	120.2	702.7	876.8
87.5°	0.0	0.0	0.0	0.7	4.4	2.9	5.2	1.5	0.7	52.4	212.4
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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CATALOG NUMBER: GLEON-SA5B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3
2.5°	5731.7	5786.3	5878.4	5922.0	5900.6	5809.9	5701.5	5590.9	5526.0	5551.8
5°	6084.2	6365.1	6527.3	6581.2	6491.2	6287.7	6021.5	5670.5	5545.9	5512.0
7.5°	6084.2	6612.9	6947.7	7006.6	6806.1	6407.2	5907.9	5360.1	5177.9	5111.6
10°	5870.3	6590.0	7056.8	7150.4	6870.2	6273.7	5604.9	4979.6	4763.5	4694.9
12.5°	5629.2	6404.2	6896.0	7025.1	6795.0	6141.0	5394.7	4722.2	4467.8	4408.1
15°	5481.0	6175.6	6582.6	6676.3	6579.0	6063.5	5344.6	4644.8	4345.4	4287.9
17.5°	5534.1	5998.6	6145.4	6199.9	6265.6	6036.2	5481.0	4814.4	4435.4	4380.8
20°	5733.9	5812.1	5736.1	5804.7	5981.7	6062.8	5806.2	5224.4	4769.4	4696.4
22.5°	6073.1	5715.5	5502.4	5529.7	5745.0	6150.5	6303.2	5809.9	5284.8	5193.4
25°	6468.4	5793.6	5372.6	5348.3	5569.5	6266.3	6757.4	6447.0	5894.7	5793.6
27.5°	6965.4	5969.1	5346.1	5321.7	5508.3	6374.7	7135.0	7076.7	6536.9	6364.4
30°	7348.8	6141.7	5425.0	5368.9	5569.5	6449.9	7438.0	7611.3	7048.7	6934.4
32.5°	7623.8	6345.2	5553.3	5472.1	5742.0	6579.7	7671.8	8100.9	7522.1	7348.8
35°	7833.3	6566.4	5760.5	5627.0	5979.5	6776.6	7890.8	8622.3	8025.7	7836.2
37.5°	8029.4	6876.9	6084.2	5924.9	6351.8	7093.7	8122.3	9213.6	8589.1	8362.7
40°	8303.0	7228.6	6583.4	6441.8	6977.9	7525.8	8411.4	9830.1	9229.9	8945.2
42.5°	8576.5	7606.1	7094.4	7132.7	7758.8	8050.8	8784.5	10481.9	9862.5	9558.7
45°	8826.5	7995.5	7822.2	7999.2	8483.6	8626.7	9155.4	10858.8	10367.7	10074.2
47.5°	9049.2	8482.2	8545.6	9016.8	9308.0	9148.0	9432.6	11183.9	10743.7	10484.9
50°	9308.0	9111.9	9499.0	10165.6	10257.0	9619.9	9684.8	11568.9	11183.2	10975.3
52.5°	9591.2	9775.5	10555.0	11142.6	11113.2	10132.4	9938.5	12000.2	11785.6	11590.2
55°	9912.7	10311.6	11484.8	12057.0	12031.9	10704.6	10358.8	12533.4	12540.7	12363.8
57.5°	10389.8	10773.2	12116.0	12796.6	12838.6	11365.3	11071.1	13130.6	13223.6	13105.6
59°	10731.9	11072.6	12366.0	13105.6	13276.6	11876.3	11591.7	13477.2	13416.0	13308.4
60°	10985.6	11262.8	12489.9	13267.1	13531.0	12222.9	11975.9	13680.7	13438.9	13308.4
62.5°	11613.1	11677.3	12713.3	13449.9	13823.8	12992.8	13056.9	14027.3	13280.3	13067.2
65°	11905.8	11939.0	12710.3	13122.5	13540.6	13592.2	14037.6	14037.6	12893.2	12565.8
67.5°	11783.4	11623.4	12079.9	12037.1	12454.5	13236.1	14406.3	13522.9	12152.9	11729.6
70°	10788.0	10172.2	9969.5	9987.9	10307.2	11512.8	13676.3	12008.3	10751.8	10257.0
72.5°	8976.2	7499.2	6998.5	7570.0	7653.3	8847.9	11655.1	9043.3	7929.1	7465.3
75°	7219.8	5286.3	4472.2	5075.4	5217.0	6475.0	9016.0	5632.2	4631.5	4270.2
77.5°	5186.8	3794.6	3209.1	3167.1	3349.9	4106.5	6397.6	2834.5	2364.1	2206.3
80°	2946.6	2497.5	2689.2	2537.3	2629.5	2567.6	3039.5	1243.2	1018.3	952.0
82.5°	1778.6	1476.2	1598.7	1331.0	1684.2	1466.7	1171.0	398.2	345.8	328.9
85°	1157.0	806.7	420.3	281.7	580.3	937.2	261.8	108.4	83.3	66.4
87.5°	398.9	205.7	20.6	8.8	61.9	174.8	9.6	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)