

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: P324591

Luminaire Tested: **GLEON-SA7A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324591
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-SA7A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 17963 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

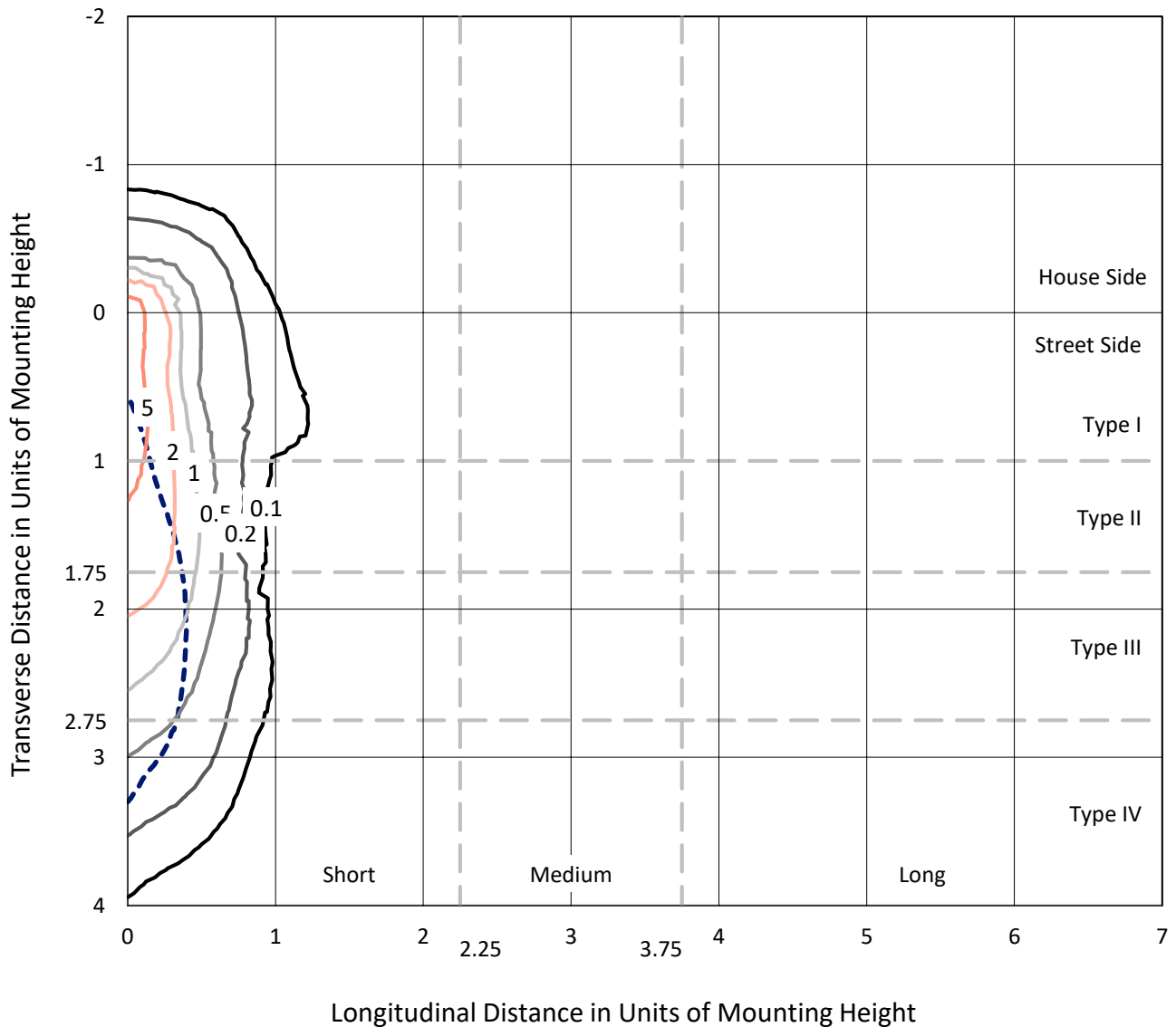
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

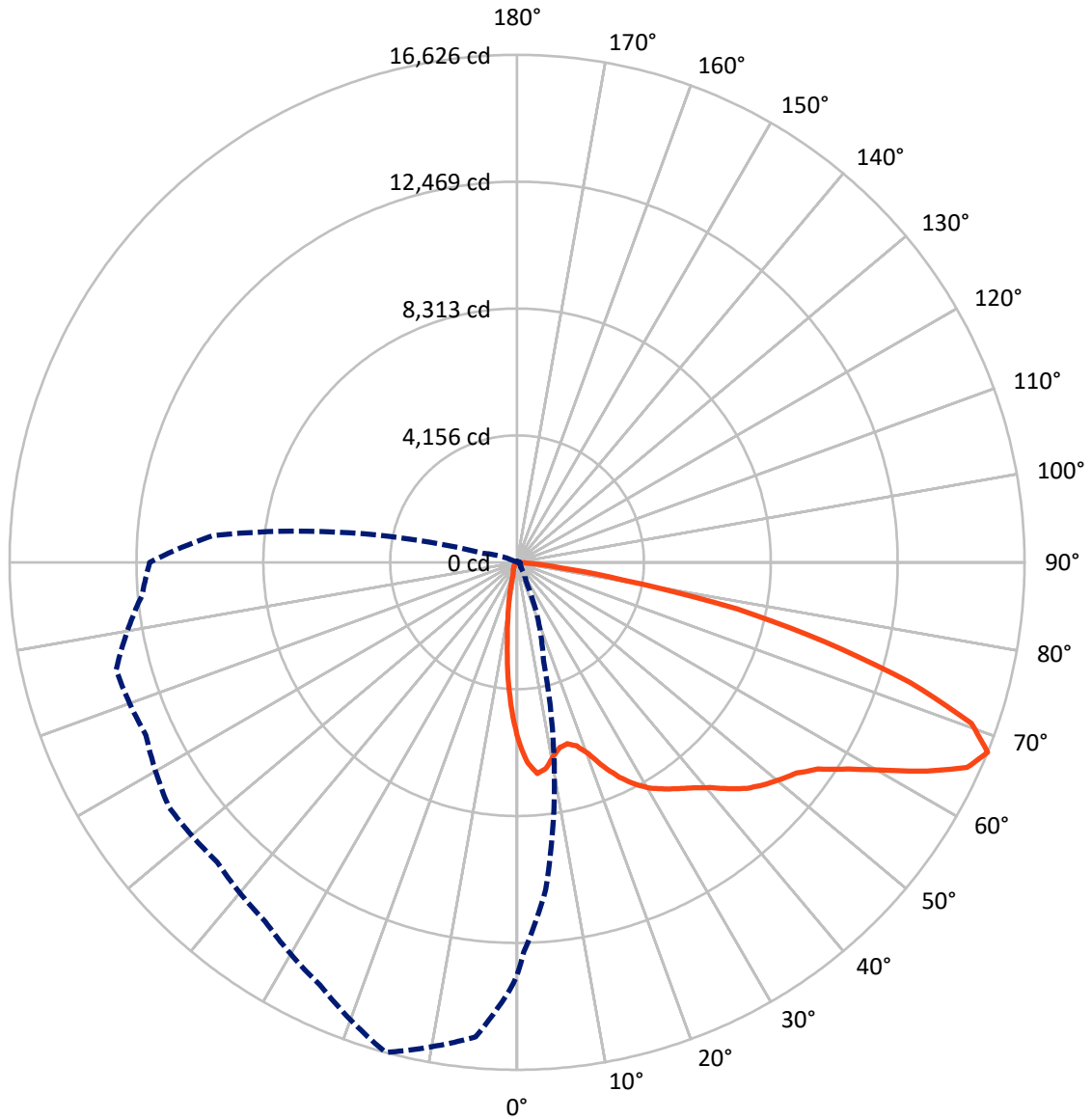
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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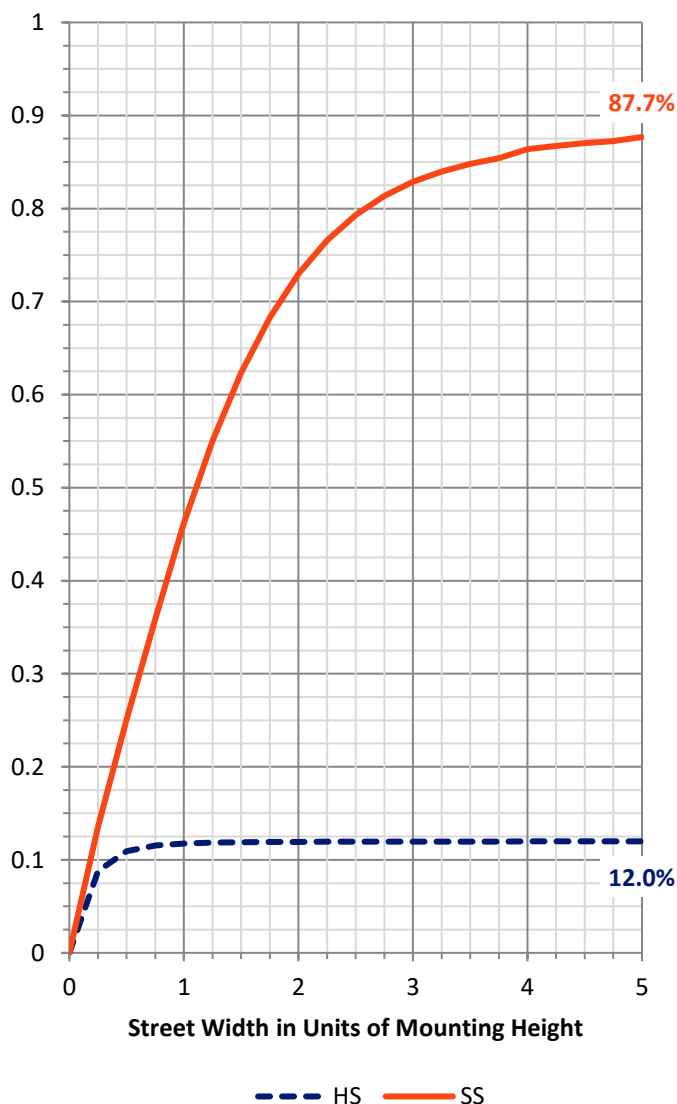
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.1	0.0	2174.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15788.9	0.0	15788.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	17963.0	0.0	17963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.1	2.5
10°-20°	893.9	5.0
20°-30°	1269.3	7.1
30°-40°	1874.9	10.4
40°-50°	2704.0	15.1
50°-60°	3795.9	21.1
60°-70°	4424.9	24.6
70°-80°	2262.1	12.6
80°-90°	288.9	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°	17963.0	100.0
0°-180°	17963.0	100.0

Coefficient of Utilization

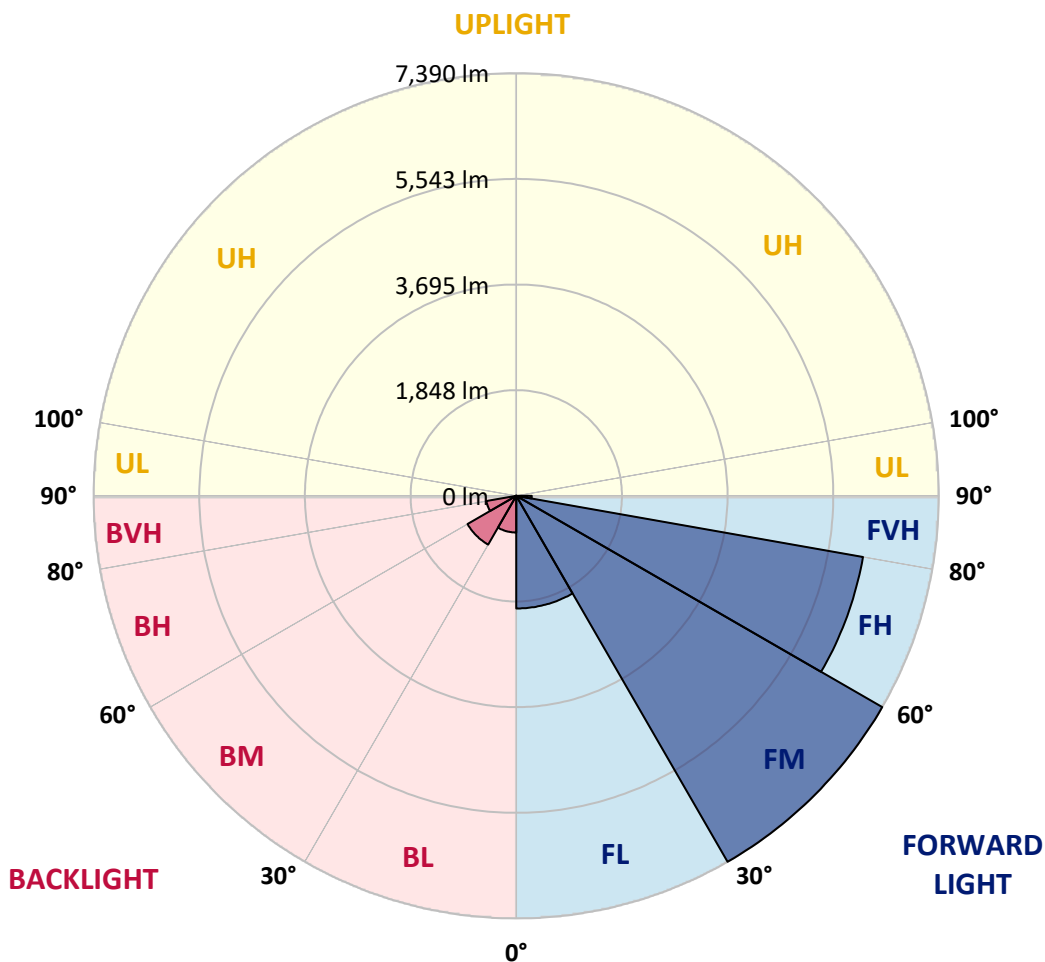


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.2	11.0			
FM (30°-60°)	7390.3	41.1			
FH (60°-80°)	6157.1	34.3			G3/7500
FVH (80°-90°)	271.3	1.5			G3/500
BL (0°-30°)	642.2	3.6	B2/1000		
BM (30°-60°)	984.5	5.5	B1/1000		
BH (60°-80°)	529.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	17.6	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°	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4
2.5°	6407.1	6357.8	6303.3	6125.4	5960.3	5771.4	5617.4	5510.2	5375.7	5201.3	5157.0
5°	6361.2	6308.4	6137.3	5741.6	5395.3	5058.3	4733.2	4542.6	4306.0	4066.0	4006.5
7.5°	5899.1	5843.8	5597.0	5054.9	4588.5	4101.8	3679.7	3418.4	3151.2	2931.7	2815.1
10°	5418.3	5357.8	5080.4	4422.6	3848.2	3408.2	3098.5	2849.1	2596.4	2361.5	2174.3
12.5°	5087.2	5008.1	4706.8	3961.4	3461.0	3162.3	2872.9	2574.2	2232.1	1980.3	1774.3
15°	4948.5	4858.3	4540.0	3783.5	3324.0	2973.4	2596.4	2229.6	1828.8	1540.3	1351.4
17.5°	5055.7	4938.3	4597.1	3771.6	3152.1	2674.7	2198.1	1767.5	1332.7	1040.8	906.3
20°	5420.0	5265.9	4832.8	3768.2	2943.6	2319.8	1715.6	1228.8	878.2	706.3	635.7
22.5°	5993.5	5790.1	5171.5	3795.4	2728.3	1947.1	1239.0	834.8	659.5	570.2	528.5
25°	6686.2	6450.5	5659.1	3891.6	2539.4	1584.5	900.3	659.5	556.5	491.0	456.1
27.5°	7344.9	7153.4	6275.2	4030.3	2393.0	1291.8	731.0	559.1	475.7	432.3	404.2
30°	8002.7	7761.9	6907.5	4195.4	2216.8	1093.5	642.5	509.7	426.3	380.4	362.5
32.5°	8481.0	8281.0	7402.8	4314.5	2028.8	964.2	574.4	466.3	398.3	351.5	325.1
35°	9043.5	8817.1	7827.4	4340.9	1907.9	882.5	516.6	419.5	345.5	303.8	275.7
37.5°	9651.1	9369.4	8317.6	4283.0	1813.5	842.5	473.2	398.3	322.5	280.0	250.2
40°	10323.4	10005.1	8788.2	4199.6	1720.7	828.9	440.0	382.1	304.7	261.3	230.6
42.5°	11031.4	10656.1	9195.8	4112.0	1662.0	782.1	436.6	365.9	291.0	244.2	213.6
45°	11626.2	11245.8	9614.5	4083.1	1620.3	731.0	451.0	354.9	281.7	230.6	200.8
47.5°	12100.2	11740.3	10043.4	4147.7	1596.5	684.2	411.0	369.3	276.6	218.7	189.8
50°	12666.1	12258.5	10647.6	4340.9	1561.6	637.4	371.9	422.9	276.6	211.0	180.4
52.5°	13375.9	12972.5	11321.6	4640.5	1491.8	572.7	334.4	423.8	279.1	200.8	168.5
55°	14268.6	13975.8	12284.1	4968.9	1380.3	477.4	289.3	364.2	268.9	182.1	157.4
57.5°	15124.7	14885.5	13161.4	5193.6	1231.4	372.7	251.9	293.6	245.9	160.0	140.4
59°	15358.7	15097.4	13483.1	5203.8	1119.9	325.1	233.2	242.5	240.8	149.8	130.2
60°	15358.7	15081.3	13575.9	5149.3	1039.1	298.7	221.3	216.2	251.0	143.0	124.2
62.5°	15080.4	14690.7	13274.6	4780.9	847.6	254.4	193.2	178.7	225.5	128.5	109.8
65°	14501.7	13934.1	12248.3	4114.5	755.7	233.2	166.8	146.4	156.6	113.2	96.2
67.5°	13536.7	12767.4	10768.4	3324.0	719.1	227.2	143.8	124.2	118.3	97.0	84.2
70°	11837.3	10983.7	8972.0	2613.4	687.6	224.7	120.8	104.7	95.3	81.7	71.5
72.5°	8615.4	7725.3	6369.7	2043.2	668.9	229.8	97.0	87.7	78.3	63.8	55.3
75°	4928.1	4345.2	3580.1	1349.7	570.2	219.6	74.9	73.2	56.2	46.0	38.3
77.5°	2546.2	2468.7	2145.3	518.3	273.2	96.2	49.4	42.5	33.2	28.1	23.0
80°	1098.6	1086.7	940.3	149.8	72.3	53.6	28.1	17.9	15.3	11.9	9.4
82.5°	379.5	379.5	334.4	50.2	32.3	26.4	3.4	0.0	0.0	0.0	0.0
85°	76.6	86.0	60.4	0.0	11.1	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°	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4
2.5°	5103.4	5000.4	4993.6	4928.9	4848.1	4811.5	4790.2	4827.7	4873.6	4878.7	4947.7
5°	3961.4	3853.3	3898.4	3783.5	3806.5	3783.5	3746.1	3752.9	3773.3	3709.5	3788.6
7.5°	2781.9	2700.2	2752.1	2721.5	2762.3	2778.5	2755.5	2721.5	2621.1	2609.1	2678.1
10°	2096.8	2004.1	1948.8	1890.9	1903.7	1930.0	1921.5	1896.9	1833.0	1836.4	1902.8
12.5°	1685.0	1581.1	1471.4	1329.2	1294.4	1313.9	1294.4	1279.9	1218.6	1223.7	1282.4
15°	1278.2	1193.1	1078.2	964.2	902.1	908.0	853.5	815.2	777.0	731.0	766.7
17.5°	862.9	811.0	777.0	742.9	668.9	651.9	582.9	508.9	480.0	458.7	474.0
20°	611.0	582.9	569.3	567.6	525.1	503.8	436.6	390.6	376.1	371.9	381.2
22.5°	510.6	490.2	470.6	459.5	438.3	413.6	362.5	339.5	329.3	324.2	331.0
25°	444.2	428.9	408.5	389.8	381.2	354.9	318.3	301.3	294.4	289.3	292.7
27.5°	394.9	381.2	357.4	345.5	338.7	315.7	284.2	270.6	264.7	263.0	262.1
30°	355.7	342.9	320.8	307.2	295.3	274.9	256.1	242.5	236.6	234.9	233.2
32.5°	316.6	306.4	291.9	278.3	265.5	246.8	230.6	219.6	210.2	208.5	207.6
35°	267.2	257.0	249.3	248.5	236.6	218.7	206.8	192.3	184.7	182.1	183.0
37.5°	237.4	223.8	206.8	212.7	209.3	196.6	180.4	165.9	158.3	156.6	156.6
40°	218.7	204.2	184.7	174.5	184.7	182.1	156.6	142.1	134.5	133.6	131.9
42.5°	200.8	186.4	164.2	147.2	152.3	160.0	135.3	121.7	114.0	112.3	109.8
45°	188.1	172.8	148.1	128.5	118.3	134.5	115.7	98.7	94.5	91.1	89.4
47.5°	176.2	161.7	133.6	111.5	94.5	97.0	92.8	80.8	75.7	72.3	71.5
50°	165.9	150.6	120.8	95.3	78.3	71.5	74.9	63.8	59.6	56.2	54.5
52.5°	154.0	139.6	107.2	82.5	65.5	56.2	57.0	50.2	46.0	43.4	42.5
55°	144.7	130.2	96.2	72.3	57.9	46.0	40.8	39.1	36.6	34.9	34.0
57.5°	131.9	118.3	85.1	61.3	49.4	37.4	31.5	31.5	30.6	28.9	28.1
59°	124.2	112.3	78.3	55.3	45.1	32.3	28.1	28.9	28.1	26.4	25.5
60°	118.3	107.2	73.2	51.1	42.5	29.8	25.5	27.2	26.4	24.7	23.8
62.5°	104.7	97.0	63.0	42.5	37.4	23.8	21.3	23.0	23.0	22.1	21.3
65°	91.9	83.4	53.6	35.7	34.9	20.4	17.0	20.4	21.3	19.6	17.9
67.5°	80.0	71.5	46.8	28.9	32.3	16.2	12.8	17.0	23.0	17.9	16.2
70°	68.1	59.6	36.6	23.0	34.0	11.1	10.2	15.3	27.2	19.6	15.3
72.5°	52.8	46.0	25.5	17.0	36.6	7.7	7.7	12.8	30.6	21.3	14.5
75°	36.6	29.8	15.3	10.2	29.8	5.1	5.1	11.9	28.9	19.6	13.6
77.5°	21.3	16.2	5.1	0.9	15.3	0.0	0.9	8.5	20.4	11.9	6.0
80°	7.7	3.4	0.0	0.0	9.4	0.0	0.0	0.0	1.7	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°	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4
2.5°	4965.5	5080.4	5183.4	5339.1	5523.8	5736.5	5919.5	6116.1	6300.7	6377.3	6430.1
5°	3804.8	3946.9	4112.8	4341.8	4646.4	5021.7	5373.2	5770.6	6197.8	6411.4	6612.2
7.5°	2690.0	2834.7	3040.6	3284.0	3652.5	4099.2	4558.8	5107.6	5686.3	6024.2	6356.9
10°	1934.3	2112.2	2304.5	2637.2	3011.7	3435.5	3908.6	4521.3	5166.4	5540.8	5941.6
12.5°	1316.5	1519.0	1810.1	2182.8	2622.8	3038.0	3449.1	4033.7	4782.6	5153.6	5583.4
15°	789.7	902.1	1210.1	1641.6	2181.1	2698.5	3148.7	3735.0	4533.2	4987.7	5434.4
17.5°	486.8	538.7	706.3	1060.3	1627.1	2281.5	2898.5	3633.7	4569.0	5122.1	5600.4
20°	388.1	408.5	462.1	626.3	1078.2	1822.0	2616.8	3613.3	4860.9	5541.7	6054.8
22.5°	337.0	356.6	392.3	455.3	678.2	1364.1	2349.6	3632.0	5279.5	6170.5	6769.6
25°	297.0	314.0	348.1	400.0	497.0	960.8	2063.7	3715.4	5825.0	6950.9	7587.4
27.5°	265.5	280.0	311.5	359.1	426.3	670.6	1739.4	3816.7	6471.8	7749.1	8377.2
30°	236.6	249.3	277.4	321.7	370.2	515.7	1383.7	3885.6	7119.4	8377.2	8941.4
32.5°	211.9	221.3	246.8	284.2	321.7	411.0	1051.8	3874.6	7600.2	8899.7	9347.3
35°	186.4	195.7	217.9	250.2	280.0	339.5	827.2	3667.8	8018.9	9441.7	9811.9
37.5°	158.3	170.2	191.5	220.4	240.8	298.7	668.9	3418.4	8443.5	10061.3	10330.2
40°	134.5	146.4	165.1	196.6	209.3	283.4	514.0	3114.6	8920.9	10754.0	10898.6
42.5°	111.5	122.5	142.1	169.3	197.4	244.2	380.4	2767.4	9379.6	11346.3	11416.9
45°	90.2	101.3	121.7	148.9	211.0	202.5	294.4	2395.5	9749.8	11839.0	11862.0
47.5°	71.5	81.7	103.0	140.4	196.6	161.7	210.2	2103.6	10060.4	12223.6	12163.2
50°	55.3	63.8	86.0	160.8	171.9	133.6	159.1	2006.6	10338.7	12461.9	12305.3
52.5°	43.4	51.1	70.6	150.6	133.6	110.6	133.6	2097.7	10719.9	12659.3	12385.3
55°	34.9	42.5	55.3	86.0	91.1	93.6	114.0	2182.8	11377.7	13122.3	12857.6
57.5°	28.9	36.6	45.1	60.4	68.9	79.1	101.3	2192.2	12153.0	13891.6	13641.4
59°	26.4	33.2	40.8	53.6	60.4	72.3	95.3	2141.1	12426.2	14171.6	14046.5
60°	24.7	31.5	38.3	49.4	56.2	68.1	91.9	2092.6	12438.1	14161.3	14219.2
62.5°	21.3	28.1	34.0	41.7	47.7	57.9	82.5	1913.0	11934.3	13697.6	14115.4
65°	18.7	24.7	30.6	35.7	40.8	51.9	74.9	1585.4	11073.9	12949.5	13404.8
67.5°	17.0	21.3	28.1	31.5	36.6	46.0	66.4	1130.1	9999.1	12034.7	12330.0
70°	15.3	20.4	25.5	28.9	33.2	40.0	57.0	649.3	8443.5	10695.3	10905.4
72.5°	14.5	19.6	23.0	27.2	29.8	35.7	51.9	305.5	6182.4	8567.8	9116.7
75°	12.8	17.9	21.3	25.5	28.1	32.3	44.3	146.4	4112.0	6200.3	6824.1
77.5°	7.7	14.5	19.6	23.0	24.7	28.1	36.6	84.2	2624.5	4291.5	5054.9
80°	0.0	5.1	14.5	19.6	21.3	23.8	28.1	66.4	1404.1	2451.7	2942.7
82.5°	0.0	0.0	10.2	15.3	14.5	16.2	21.3	41.7	633.1	1602.4	1805.8
85°	0.0	0.0	3.4	11.9	10.2	7.7	14.5	14.5	138.7	811.0	1011.8
87.5°	0.0	0.0	0.0	0.9	5.1	3.4	6.0	1.7	0.9	60.4	245.1
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: P324591

CATALOG NUMBER: GLEON-SA7A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4	5851.4
2.5°	6614.8	6677.7	6784.1	6834.3	6809.6	6705.0	6579.9	6452.2	6377.3	6407.1
5°	7021.5	7345.8	7533.0	7595.1	7491.3	7256.4	6949.2	6544.1	6400.3	6361.2
7.5°	7021.5	7631.7	8018.0	8086.1	7854.6	7394.3	6818.1	6185.9	5975.7	5899.1
10°	6774.7	7605.3	8144.0	8252.1	7928.7	7240.2	6468.4	5746.7	5497.4	5418.3
12.5°	6496.5	7390.9	7958.5	8107.4	7841.9	7087.1	6225.8	5449.7	5156.2	5087.2
15°	6325.4	7127.0	7596.8	7704.9	7592.5	6997.7	6168.0	5360.4	5014.9	4948.5
17.5°	6386.7	6922.8	7092.2	7155.1	7230.9	6966.2	6325.4	5556.1	5118.7	5055.7
20°	6617.3	6707.5	6619.9	6699.0	6903.2	6996.8	6700.7	6029.3	5504.2	5420.0
22.5°	7008.8	6596.0	6350.1	6381.6	6630.1	7098.1	7274.3	6705.0	6099.1	5993.5
25°	7464.9	6686.2	6200.3	6172.2	6427.5	7231.7	7798.5	7440.2	6802.8	6686.2
27.5°	8038.5	6888.8	6169.7	6141.6	6356.9	7356.8	8234.2	8167.0	7544.0	7344.9
30°	8481.0	7087.9	6260.7	6196.1	6427.5	7443.6	8583.9	8783.9	8134.6	8002.7
32.5°	8798.4	7322.8	6408.8	6315.2	6626.7	7593.4	8853.7	9349.0	8681.0	8481.0
35°	9040.1	7578.1	6647.9	6493.9	6900.7	7820.6	9106.5	9950.6	9262.2	9043.5
37.5°	9266.4	7936.3	7021.5	6837.7	7330.4	8186.5	9373.7	10633.1	9912.3	9651.1
40°	9582.2	8342.3	7597.6	7434.3	8052.9	8685.2	9707.3	11344.6	10651.9	10323.4
42.5°	9897.9	8778.0	8187.4	8231.6	8954.1	9291.1	10137.9	12096.8	11382.0	11031.4
45°	10186.4	9227.3	9027.3	9231.6	9790.7	9955.7	10565.9	12531.7	11964.9	11626.2
47.5°	10443.4	9788.9	9862.1	10405.9	10742.1	10557.4	10885.9	12907.0	12398.9	12100.2
50°	10742.1	10515.7	10962.5	11731.8	11837.3	11102.0	11176.9	13351.2	12906.1	12666.1
52.5°	11068.8	11281.6	12181.1	12859.3	12825.3	11693.5	11469.7	13849.0	13601.4	13375.9
55°	11439.9	11900.3	13254.2	13914.6	13885.6	12353.8	11954.7	14464.3	14472.8	14268.6
57.5°	11990.5	12433.0	13982.6	14768.1	14816.6	13116.3	12776.8	15153.6	15260.8	15124.7
59°	12385.3	12778.5	14271.1	15124.7	15322.1	13706.1	13377.6	15553.6	15482.9	15358.7
60°	12678.1	12998.0	14414.1	15311.0	15615.7	14106.0	13820.9	15788.4	15509.3	15358.7
62.5°	13402.3	13476.3	14671.9	15522.1	15953.5	14994.5	15068.5	16188.4	15326.3	15080.4
65°	13740.1	13778.4	14668.5	15144.2	15626.7	15686.3	16200.3	16200.3	14879.6	14501.7
67.5°	13598.8	13414.2	13940.9	13891.6	14373.2	15275.3	16625.8	15606.3	14025.2	13536.7
70°	12450.0	11739.4	11505.4	11526.7	11895.2	13286.5	15783.3	13858.4	12408.3	11837.3
72.5°	10359.1	8654.6	8076.8	8736.3	8832.4	10211.0	13450.8	10436.6	9150.7	8615.4
75°	8332.1	6100.8	5161.3	5857.4	6020.8	7472.6	10405.1	6499.9	5345.1	4928.1
77.5°	5985.9	4379.2	3703.5	3655.0	3866.1	4739.2	7383.2	3271.2	2728.3	2546.2
80°	3400.6	2882.3	3103.6	2928.3	3034.6	2963.2	3507.8	1434.8	1175.2	1098.6
82.5°	2052.6	1703.7	1844.9	1536.0	1943.7	1692.6	1351.4	459.5	399.1	379.5
85°	1335.2	931.0	485.1	325.1	669.7	1081.6	302.1	125.1	96.2	76.6
87.5°	460.4	237.4	23.8	10.2	71.5	201.7	11.1	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)