

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: P324288

Luminaire Tested: **GLEON-SA4C-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324288
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-SA4C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 15550 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

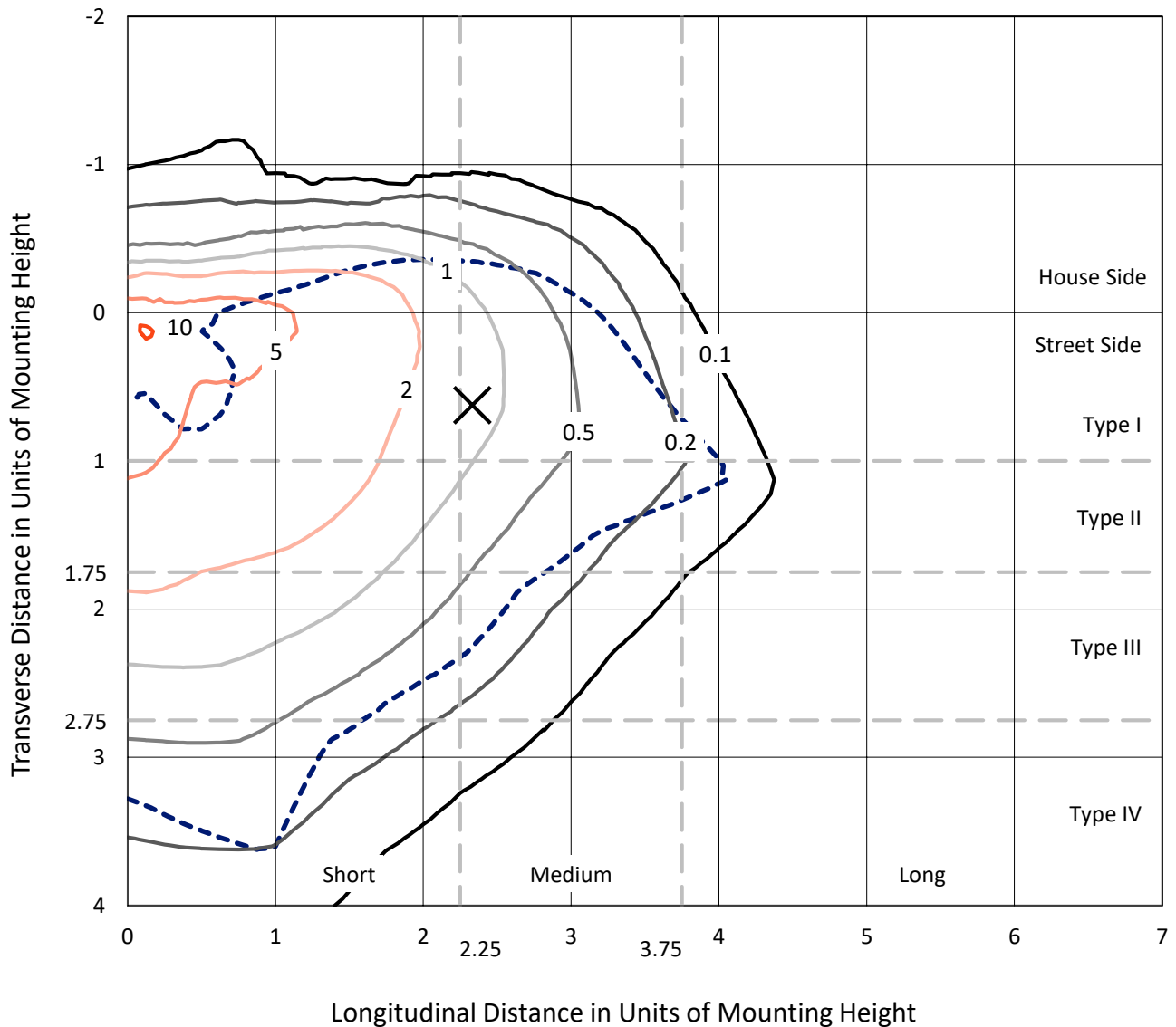
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

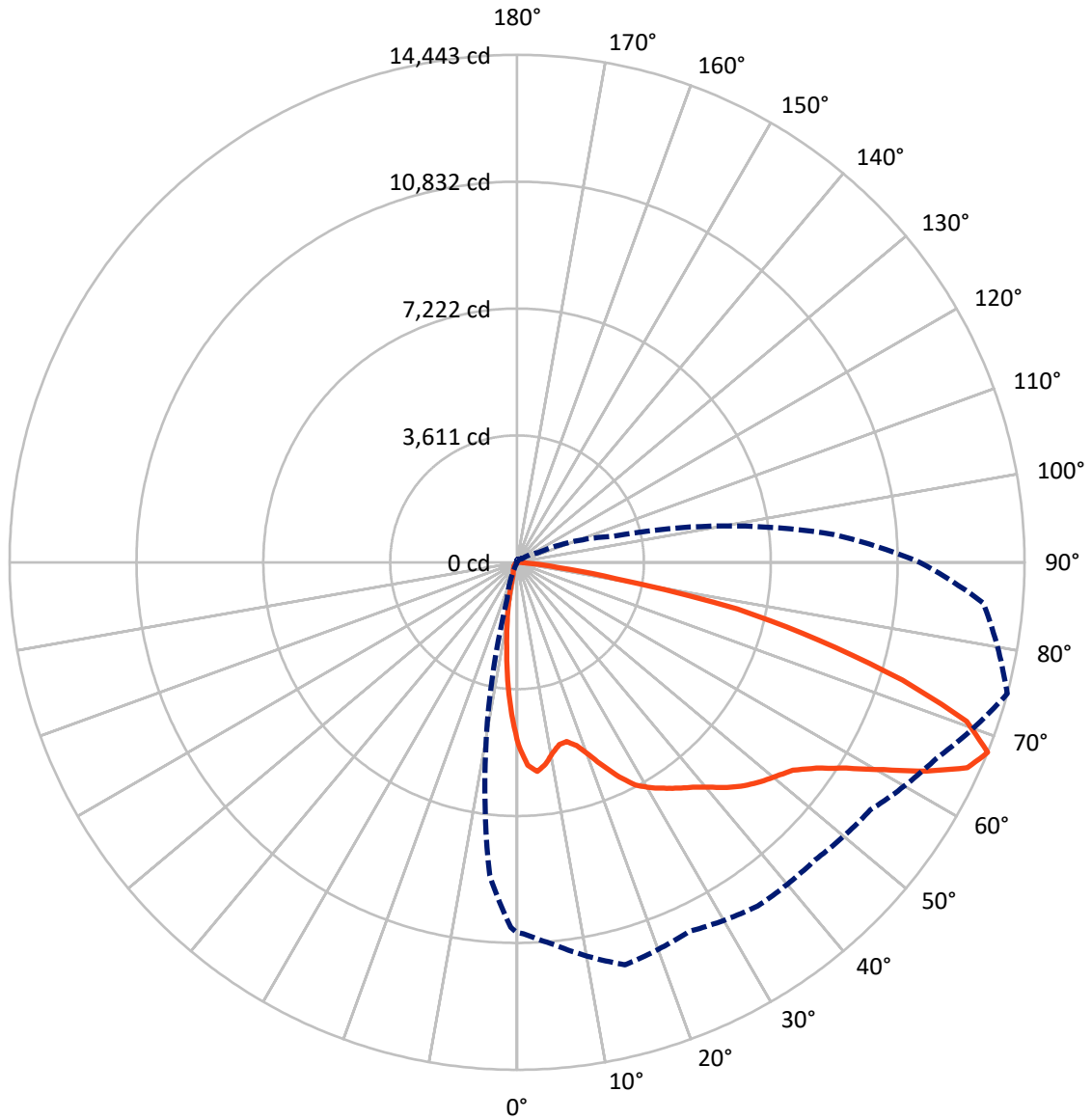
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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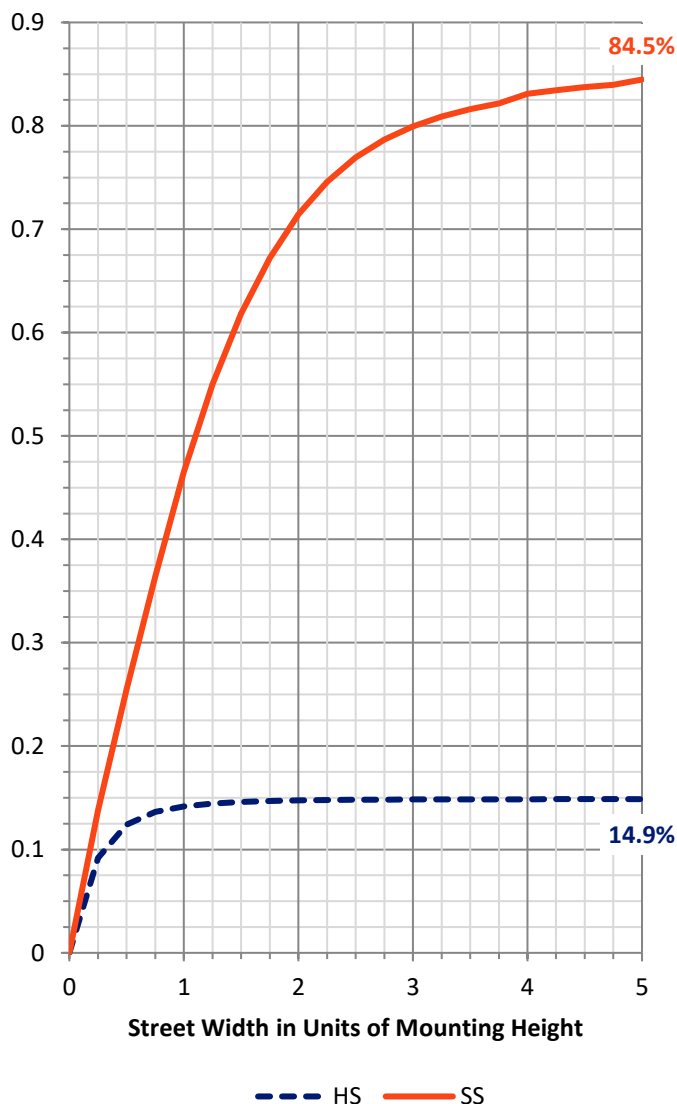
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2333.4	0.0	2333.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13216.6	0.0	13216.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	15550.0	0.0	15550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.7	2.5
10°-20°	779.2	5.0
20°-30°	1102.3	7.1
30°-40°	1620.7	10.4
40°-50°	2329.5	15.0
50°-60°	3279.3	21.1
60°-70°	3829.9	24.6
70°-80°	1953.9	12.6
80°-90°	259.6	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°	15550.0	100.0
0°-180°	15550.0	100.0

Coefficient of Utilization

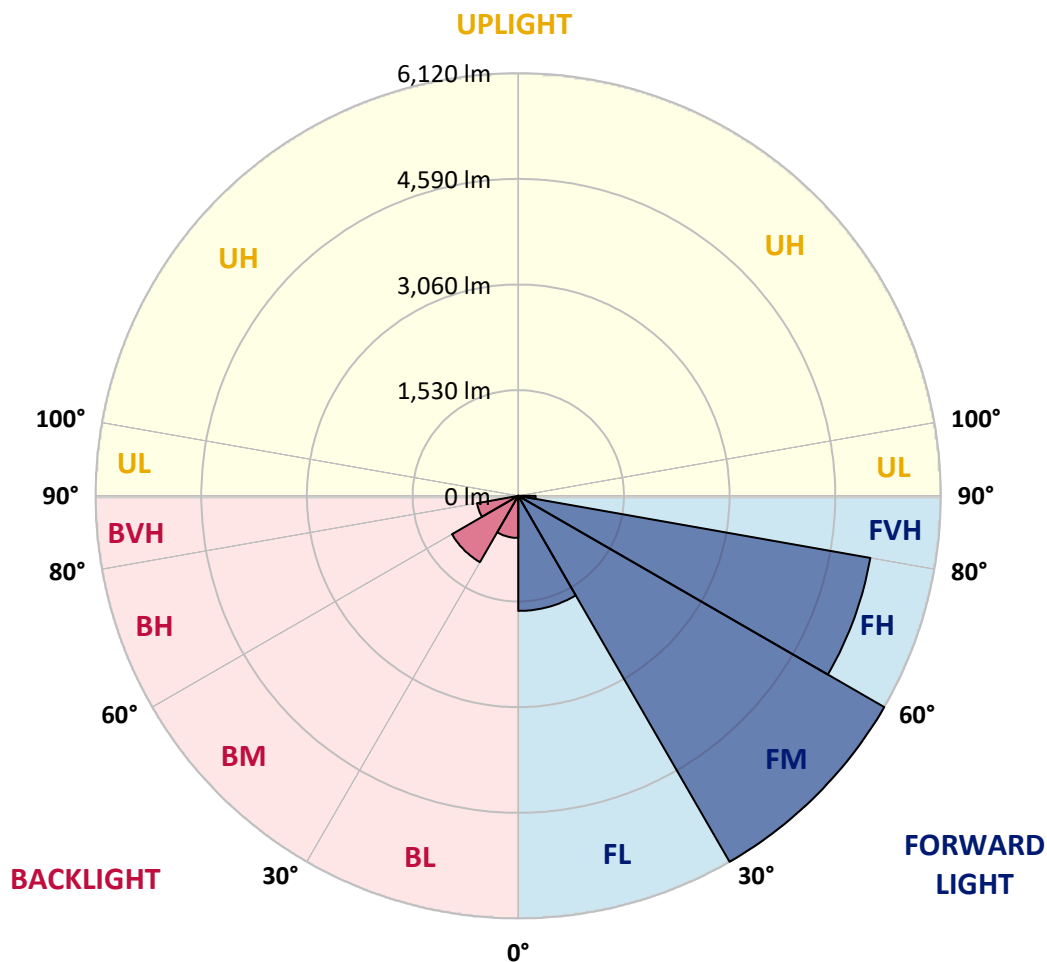


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.0	10.7			
FM (30°-60°)	6120.2	39.4			
FH (60°-80°)	5177.7	33.3			G3/7500
FVH (80°-90°)	251.7	1.6			G3/500
BL (0°-30°)	610.2	3.9	B2/1000		
BM (30°-60°)	1109.2	7.1	B2/2500		
BH (60°-80°)	606.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8
2.5°	5655.0	5663.9	5709.6	5815.6	5931.3	5940.1	6018.2	5937.9	5910.7	5781.0	5646.9
5°	5697.8	5731.7	5888.6	6200.1	6470.5	6557.4	6619.3	6461.7	6295.9	5979.2	5641.1
7.5°	5353.8	5410.5	5657.3	6242.1	6725.4	6939.0	6979.5	6732.7	6326.8	5805.3	5297.1
10°	4913.3	4978.1	5275.7	5994.6	6658.3	7024.4	7080.4	6757.0	6173.6	5523.9	4925.1
12.5°	4556.7	4632.6	4936.8	5716.2	6427.8	6832.9	6943.4	6675.3	6041.0	5324.3	4670.9
15°	4392.5	4479.4	4799.1	5536.5	6172.2	6491.1	6582.5	6466.8	5967.4	5292.6	4612.0
17.5°	4486.8	4581.1	4911.1	5551.9	5932.0	6068.3	6142.0	6189.1	5967.4	5483.4	4784.4
20°	4873.5	4975.1	5324.3	5708.8	5733.1	5682.3	5761.1	5926.9	6036.6	5845.8	5198.3
22.5°	5408.3	5527.6	5921.7	5977.7	5635.9	5443.6	5454.0	5714.0	6162.6	6305.5	5772.9
25°	6060.2	6206.0	6606.8	6378.4	5676.4	5301.5	5297.8	5538.7	6285.6	6765.9	6413.0
27.5°	6707.7	6868.3	7220.4	6867.5	5843.6	5275.7	5268.3	5485.6	6405.7	7175.4	7112.1
30°	7250.6	7406.7	7710.2	7221.8	6024.1	5336.1	5300.7	5542.3	6477.1	7441.4	7621.8
32.5°	7692.5	7817.8	8063.1	7465.7	6217.1	5453.2	5376.6	5694.1	6598.7	7666.0	8090.3
35°	8178.7	8310.6	8408.5	7697.7	6433.7	5621.9	5512.1	5935.0	6785.8	7894.4	8603.7
37.5°	8733.4	8864.5	8852.7	7909.9	6708.4	5901.1	5831.1	6316.5	7076.7	8120.5	9176.8
40°	9276.3	9410.3	9314.6	8141.9	7031.1	6361.5	6309.9	6889.6	7466.4	8410.0	9848.6
42.5°	9784.6	9929.7	9724.9	8361.4	7415.6	6941.9	7030.3	7627.7	7954.0	8766.5	10427.6
45°	10194.1	10342.2	10068.9	8575.0	7820.7	7646.1	7912.1	8445.4	8540.4	9067.8	10818.8
47.5°	10491.7	10631.7	10307.6	8788.6	8339.3	8507.3	8970.6	9302.8	9070.0	9329.3	11096.5
50°	10681.8	10790.8	10377.5	9056.0	9019.9	9512.0	10073.3	10235.4	9568.7	9565.0	11433.9
52.5°	10802.6	10851.9	10429.1	9335.2	9730.0	10605.9	11153.2	11204.0	10082.1	9824.3	11888.3
55°	11218.8	11258.5	10794.5	9673.3	10317.1	11564.2	12130.0	12082.8	10663.3	10331.9	12424.6
57.5°	11928.9	11970.8	11549.5	10159.5	10792.3	12156.5	12837.9	12922.6	11344.7	11044.9	12999.2
60°	12285.4	12363.5	12213.2	10775.3	11252.6	12535.1	13320.3	13590.7	12196.3	11984.8	13556.1
62.5°	11962.0	12075.4	12293.5	11458.2	11710.1	12743.6	13470.6	13830.1	13068.4	13080.2	13899.3
65°	11316.7	11407.3	11777.1	11832.4	11975.3	12717.8	13099.4	13495.7	13602.5	14086.4	13880.9
67.5°	10537.4	10571.3	10885.1	11861.8	11590.8	11942.9	11984.1	12277.3	13180.4	14443.0	13323.3
70°	9415.5	9433.9	9707.9	10875.5	9960.6	10038.0	9976.8	10036.5	11331.5	13574.5	11915.6
72.5°	7577.6	7624.0	8013.7	9031.7	7256.5	7033.3	7513.5	7487.0	8726.8	11468.5	8849.8
75°	5579.2	5659.5	6248.0	7274.9	5093.0	4606.8	4957.5	5051.0	6203.8	8871.1	5534.2
77.5°	3906.3	3966.0	4536.1	5347.9	3686.1	3294.2	3167.5	3278.7	4094.9	6417.5	2788.1
80°	2250.4	2272.5	2636.4	3087.9	2483.9	2841.9	2574.5	2651.1	2453.7	2855.1	1199.2
82.5°	1472.5	1476.2	1618.4	1837.9	1546.9	1797.4	1330.3	1700.9	1509.3	1146.9	390.4
85°	795.6	800.0	938.5	1304.6	875.8	495.0	291.0	597.4	933.3	263.0	106.8
87.5°	87.7	80.3	282.9	474.4	243.1	44.9	15.5	67.0	149.5	16.9	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°	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8
2.5°	5578.4	5517.3	5364.8	5203.5	5073.9	4952.3	4830.0	4680.5	4564.8	4541.3	4503.0
5°	5459.1	5265.4	4945.7	4624.5	4366.0	4039.6	3832.6	3671.3	3513.7	3504.1	3472.4
7.5°	5042.2	4787.3	4337.2	3893.0	3529.2	3218.3	2904.5	2694.6	2529.6	2471.4	2436.7
10°	4641.5	4354.9	3792.9	3286.1	2961.2	2686.5	2465.5	2246.0	2047.1	1910.1	1848.2
12.5°	4361.5	4044.8	3425.3	2988.5	2755.7	2494.9	2225.3	1951.3	1722.2	1557.2	1456.3
15°	4253.3	3915.1	3302.3	2870.6	2583.3	2253.3	1908.6	1595.5	1341.4	1191.9	1101.3
17.5°	4382.2	3988.8	3292.7	2727.0	2325.5	1915.2	1534.4	1164.6	925.2	811.8	753.6
20°	4709.2	4223.1	3289.0	2550.9	2019.1	1514.5	1039.4	766.1	621.0	557.6	530.4
22.5°	5171.8	4522.1	3318.5	2377.1	1700.1	1082.1	717.5	562.8	488.4	454.5	439.0
25°	5767.0	4942.0	3401.7	2219.4	1400.3	807.3	559.1	471.4	419.1	392.6	381.6
27.5°	6401.2	5425.2	3531.4	2082.4	1156.5	643.8	478.8	403.7	366.1	347.7	337.4
30°	6924.2	5985.1	3662.5	1930.0	979.7	561.3	438.3	368.3	324.9	313.1	303.5
32.5°	7381.7	6408.6	3755.3	1792.2	864.1	498.7	396.3	329.3	299.8	277.0	266.7
35°	7855.3	6761.5	3752.4	1695.7	784.5	451.5	360.9	294.6	259.3	232.8	224.7
37.5°	8368.0	7160.0	3688.3	1613.2	749.9	414.0	341.1	276.2	240.9	214.4	204.0
40°	8968.4	7578.4	3622.7	1535.9	740.3	383.8	327.1	261.5	223.9	198.2	187.8
42.5°	9553.3	7955.5	3565.3	1478.4	699.1	383.0	314.5	250.5	210.7	185.6	173.8
45°	10021.0	8306.9	3554.2	1443.8	655.6	396.3	307.9	243.1	200.4	175.3	164.3
47.5°	10409.9	8688.5	3624.9	1419.5	614.3	361.7	324.1	237.9	190.8	166.5	154.0
50°	10872.5	9157.0	3791.4	1379.7	570.9	325.6	371.3	239.4	182.7	157.6	144.4
52.5°	11517.8	9805.2	4036.0	1312.7	511.2	292.4	365.4	240.9	173.8	148.1	134.8
55°	12241.2	10614.7	4298.9	1201.4	428.0	249.0	313.1	230.6	156.9	137.7	125.2
57.5°	13001.4	11349.1	4455.1	1068.8	340.3	215.1	250.5	209.9	138.5	123.8	115.6
60°	13120.7	11628.3	4383.6	906.0	270.3	187.1	185.6	213.6	123.8	109.0	103.1
62.5°	12823.9	11277.7	4038.2	760.9	226.1	164.3	152.5	186.4	112.0	97.2	91.3
65°	12253.0	10329.7	3478.3	685.8	209.9	140.7	126.7	131.1	98.0	84.7	79.6
67.5°	11458.9	9064.1	2855.9	643.1	207.7	120.8	108.3	99.4	84.7	73.7	69.2
70°	9835.4	7551.1	2278.4	619.5	201.8	101.7	91.3	81.0	70.7	62.6	58.9
72.5°	7238.8	5350.8	1772.3	593.7	203.3	81.0	79.6	67.0	56.7	48.6	47.1
75°	4182.5	3057.0	1162.4	481.0	193.7	62.6	66.3	47.1	39.8	33.9	33.9
77.5°	2229.0	1864.4	442.7	200.4	70.7	39.8	37.6	28.0	25.0	20.6	19.9
80°	971.6	820.6	133.3	56.0	39.0	21.4	14.0	12.5	11.0	8.8	8.1
82.5°	344.0	296.9	43.5	27.3	16.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.1	56.0	0.0	6.6	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°	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8
2.5°	4424.9	4408.7	4312.9	4316.6	4333.5	4357.9	4300.4	4326.9	4398.4	4466.9	4492.7
5°	3421.6	3425.3	3367.1	3403.2	3435.6	3457.7	3364.9	3366.4	3423.1	3500.4	3540.9
7.5°	2411.0	2405.1	2408.0	2494.2	2555.3	2511.1	2545.8	2425.7	2433.1	2488.3	2447.1
10°	1792.2	1711.2	1665.5	1730.3	1797.4	1773.0	1713.4	1674.3	1701.6	1762.7	1758.3
12.5°	1408.4	1292.0	1223.5	1177.1	1232.4	1186.7	1185.2	1151.3	1114.5	1121.1	1219.1
15°	1059.3	974.6	893.5	819.1	817.7	802.2	723.4	635.0	627.6	632.0	682.8
17.5°	728.5	699.8	666.6	602.6	585.6	520.8	444.2	408.8	391.1	399.2	416.2
20°	512.0	500.9	504.6	470.0	445.7	383.8	338.8	324.9	321.9	330.0	338.1
22.5°	424.3	404.4	402.2	386.7	362.4	317.5	293.2	285.1	281.4	288.8	294.6
25°	371.3	351.4	343.3	333.7	307.9	277.0	262.2	254.9	251.2	255.6	259.3
27.5°	327.1	308.6	301.3	294.6	269.6	247.5	235.7	229.1	226.1	227.6	231.3
30°	293.9	277.7	268.1	260.0	238.7	223.2	212.9	206.3	203.3	203.3	207.0
32.5°	259.3	250.5	241.6	231.3	211.4	201.1	190.8	183.4	180.5	181.2	184.2
35°	215.8	212.9	215.1	205.5	188.6	179.7	169.4	161.3	159.1	159.8	162.8
37.5°	191.5	178.3	186.4	181.2	171.6	159.8	146.6	139.2	135.5	137.7	139.2
40°	176.1	159.8	154.0	159.1	157.6	138.5	126.7	119.3	116.4	117.1	118.6
42.5°	162.8	143.6	130.4	129.6	138.5	120.8	108.3	101.7	98.0	98.0	99.4
45°	150.3	129.6	113.4	100.9	116.4	102.4	90.6	84.7	80.3	80.3	81.0
47.5°	140.7	117.9	98.7	82.5	87.7	84.0	74.4	68.5	64.1	64.1	64.8
50°	131.9	106.1	85.4	69.2	65.6	69.2	60.4	53.8	50.8	50.1	51.6
52.5°	122.3	94.3	72.9	58.9	51.6	52.3	47.1	42.7	39.0	39.0	40.5
55°	112.7	84.7	63.3	50.1	42.7	39.0	37.6	34.6	31.7	31.7	33.1
57.5°	103.1	74.4	53.8	41.3	33.9	30.9	30.9	28.7	26.5	26.5	28.0
60°	94.3	64.1	44.2	33.9	26.5	25.8	26.5	24.3	22.8	22.8	24.3
62.5°	84.0	54.5	36.1	28.0	21.4	20.6	22.8	21.4	19.9	19.9	21.4
65°	71.5	46.4	28.7	21.4	16.2	16.2	19.2	17.7	16.2	16.2	17.7
67.5°	60.4	39.0	22.1	15.5	11.8	12.5	16.2	14.7	14.0	14.0	15.5
70°	50.1	30.2	15.5	9.6	6.6	9.6	12.5	12.5	12.5	12.5	14.0
72.5°	37.6	20.6	8.8	3.7	2.9	6.6	10.3	11.8	11.0	11.0	13.3
75°	24.3	11.8	2.9	0.0	0.0	3.7	8.1	9.6	9.6	8.8	11.0
77.5°	14.0	3.7	0.0	0.0	0.0	0.0	5.2	4.4	3.7	2.9	5.2
80°	3.7	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



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CATALOG NUMBER: GLEON-SA4C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8	5216.8
2.5°	4596.5	4683.4	4805.7	4935.4	5135.0	5293.4	5448.8	5582.1	5633.7	5655.0
5°	3638.2	3765.6	3944.6	4174.4	4534.6	4858.8	5187.3	5518.0	5661.7	5697.8
7.5°	2610.6	2773.4	3001.0	3289.0	3711.1	4131.0	4589.9	5075.3	5297.8	5353.8
10°	1932.2	2131.0	2391.8	2695.3	3098.2	3529.9	4030.1	4584.7	4838.9	4913.3
12.5°	1370.9	1639.7	1988.9	2357.9	2707.1	3092.3	3598.4	4209.8	4476.5	4556.7
15°	805.1	1065.2	1478.4	1972.7	2419.8	2810.2	3324.4	4017.5	4311.5	4392.5
17.5°	461.9	591.5	903.8	1454.8	2061.8	2602.5	3238.2	4065.4	4411.6	4486.8
20°	352.8	394.1	520.8	937.0	1643.4	2398.4	3238.2	4336.5	4763.0	4873.5
22.5°	308.6	338.8	390.4	559.1	1209.5	2179.7	3275.8	4728.4	5286.0	5408.3
25°	274.0	301.3	345.5	420.6	825.0	1919.6	3364.9	5209.4	5901.8	6060.2
27.5°	245.3	271.1	310.9	368.3	564.3	1605.8	3485.0	5773.6	6581.0	6707.7
30°	219.5	243.8	279.9	320.4	435.3	1250.0	3587.4	6305.5	7114.3	7250.6
32.5°	195.2	217.3	249.7	279.9	356.5	924.5	3598.4	6726.8	7557.0	7692.5
35°	172.4	192.3	221.7	245.3	295.4	730.0	3426.8	7092.2	7999.7	8178.7
37.5°	150.3	169.4	195.2	212.9	260.0	595.2	3164.5	7499.6	8567.7	8733.4
40°	129.6	146.6	173.1	184.9	246.0	457.4	2879.5	7926.8	9124.5	9276.3
42.5°	110.5	126.7	152.5	175.3	215.8	341.8	2571.5	8327.5	9625.4	9784.6
45°	92.1	109.0	134.8	185.6	179.0	255.6	2242.3	8593.4	10021.0	10194.1
47.5°	74.4	93.6	128.9	176.8	142.9	187.8	1981.5	8845.4	10320.8	10491.7
50°	59.7	78.8	145.1	157.6	117.1	143.6	1872.5	9070.8	10517.5	10681.8
52.5°	48.6	66.3	137.0	120.8	98.0	118.6	1931.4	9436.1	10699.4	10802.6
55°	40.5	52.3	82.5	84.0	83.2	100.9	2004.3	9960.6	11170.1	11218.8
57.5°	35.4	42.0	57.5	64.8	70.0	89.9	2005.8	10713.4	11898.7	11928.9
60°	30.2	36.8	47.9	52.3	60.4	80.3	1932.9	10976.4	12185.2	12285.4
62.5°	26.5	32.4	39.8	43.5	50.8	72.2	1762.0	10595.6	11791.8	11962.0
65°	23.6	29.5	33.1	36.8	44.9	64.8	1480.6	9833.9	11139.2	11316.7
67.5°	20.6	25.8	29.5	33.1	40.5	57.5	1090.2	8949.2	10390.1	10537.4
70°	18.4	22.8	26.5	29.5	35.4	48.6	661.5	7593.8	9354.4	9415.5
72.5°	17.7	20.6	24.3	26.5	30.9	42.7	335.2	5580.7	7478.2	7577.6
75°	15.5	18.4	22.1	23.6	27.3	36.8	136.3	3665.4	5419.3	5579.2
77.5°	12.5	16.9	19.9	21.4	23.6	30.2	69.2	2342.5	3803.2	3906.3
80°	4.4	12.5	16.9	17.7	19.9	22.1	45.7	1282.5	2206.2	2250.4
82.5°	0.0	8.1	13.3	12.5	14.0	16.9	29.5	609.9	1456.3	1472.5
85°	0.0	3.7	10.3	8.1	5.9	11.8	10.3	133.3	763.9	795.6
87.5°	0.0	0.0	0.7	3.7	2.9	4.4	1.5	0.7	69.2	87.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)