

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: P324272

Luminaire Tested: **GLEON-SA8A-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324272
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-SA8A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 20355 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

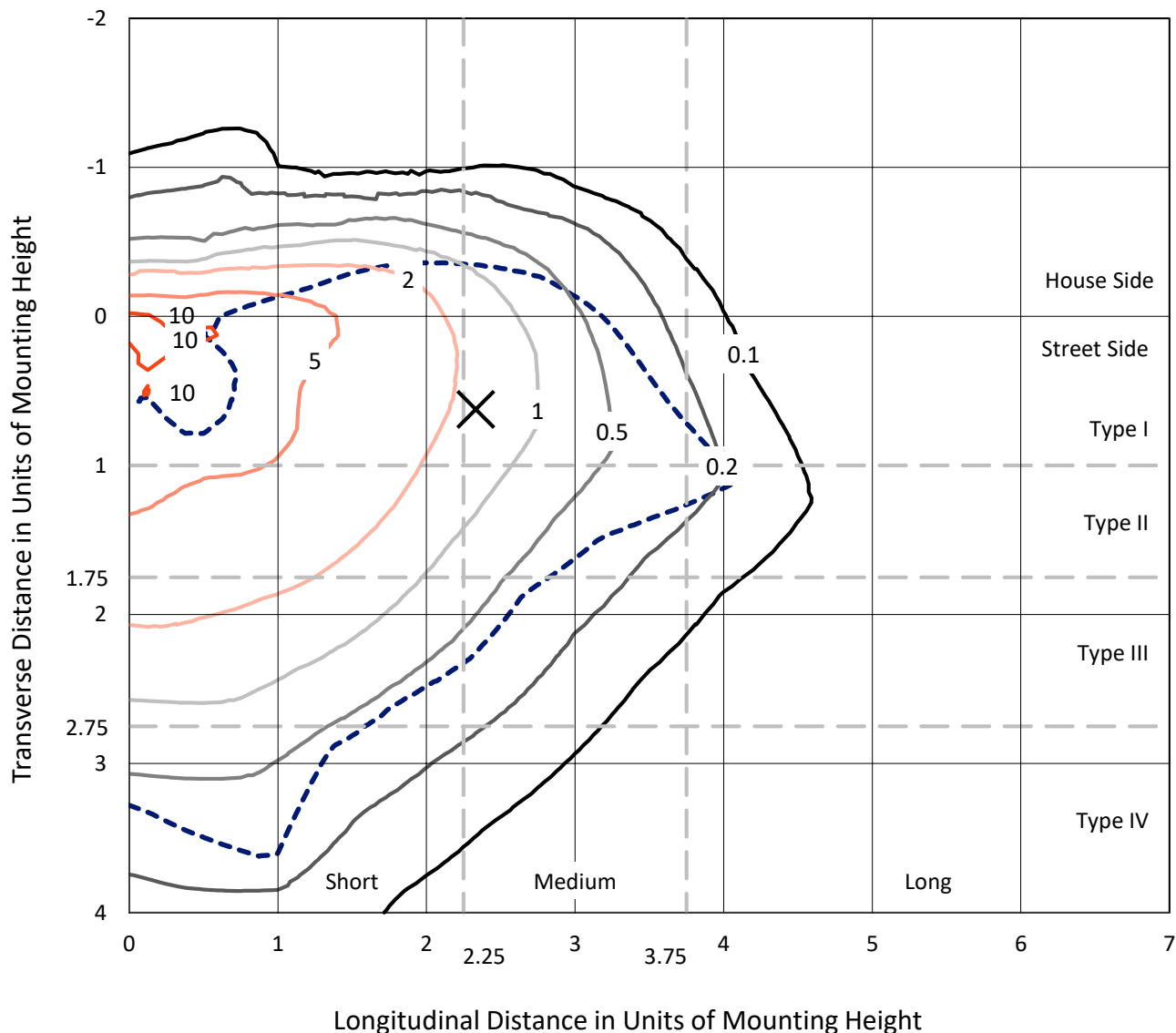
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

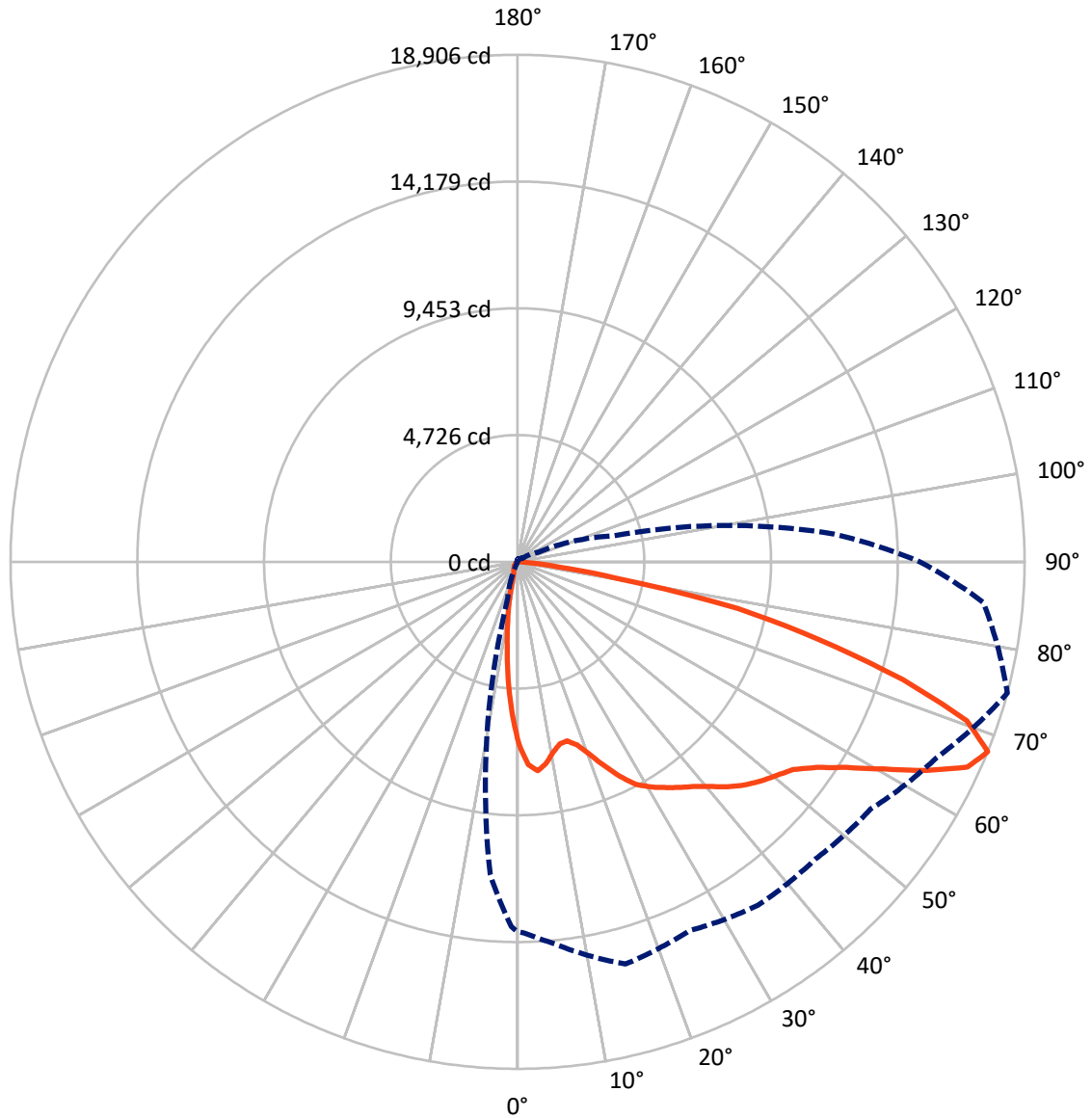
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	3054.5	0.0	3054.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17300.5	0.0	17300.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	20355.0	0.0	20355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.0	2.5
10°-20°	1019.9	5.0
20°-30°	1442.9	7.1
30°-40°	2121.5	10.4
40°-50°	3049.3	15.0
50°-60°	4292.6	21.1
60°-70°	5013.4	24.6
70°-80°	2557.7	12.6
80°-90°	339.8	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°	20355.0	100.0
0°-180°	20355.0	100.0

Coefficient of Utilization



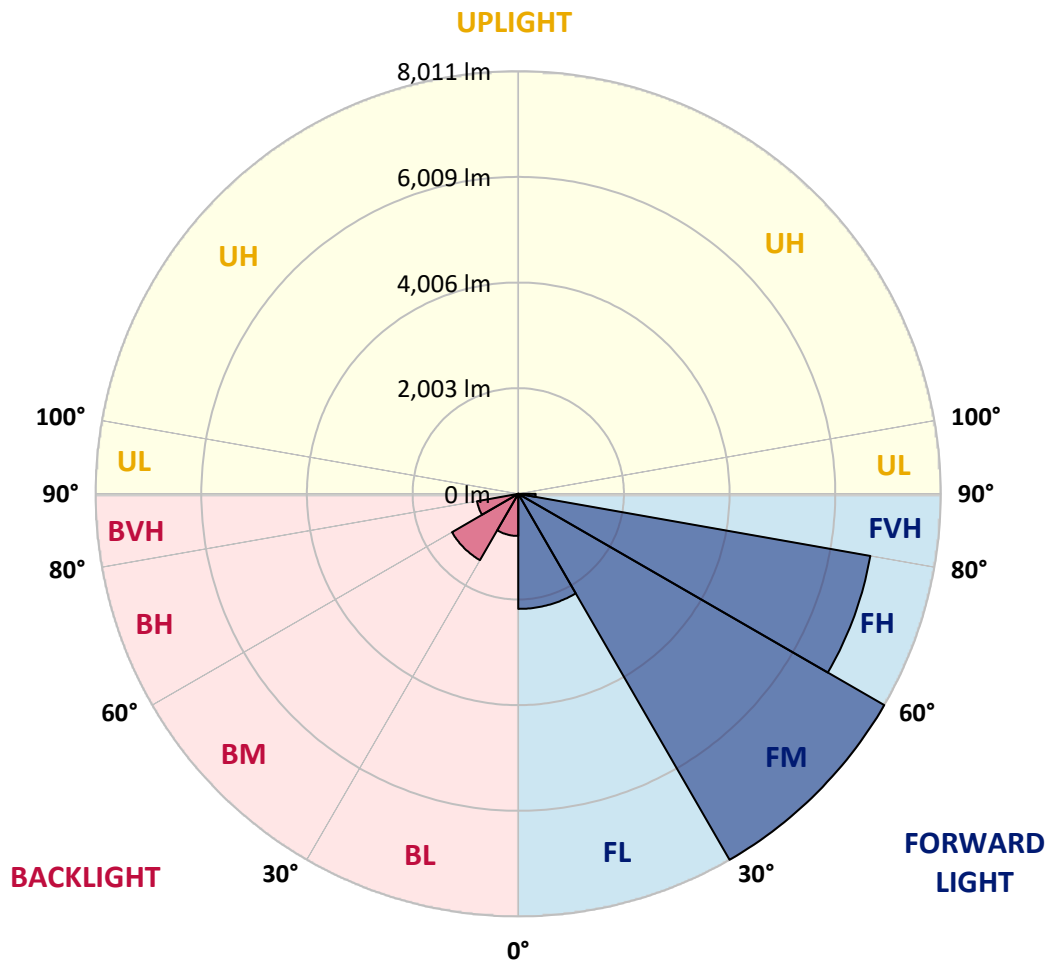
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2182.1	10.7			
FM (30°-60°)	8011.4	39.4			
FH (60°-80°)	6777.6	33.3			G3/7500
FVH (80°-90°)	329.5	1.6			G3/500
BL (0°-30°)	798.8	3.9	B2/1000		
BM (30°-60°)	1452.0	7.1	B2/2500		
BH (60°-80°)	793.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	10.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8
2.5°	7402.5	7414.0	7473.8	7612.7	7764.1	7775.6	7877.8	7772.7	7737.1	7567.4	7391.9
5°	7458.4	7502.8	7708.1	8116.0	8469.9	8583.7	8664.7	8458.3	8241.4	7826.7	7384.2
7.5°	7008.1	7082.3	7405.4	8171.0	8803.5	9083.1	9136.2	8813.2	8281.9	7599.2	6933.9
10°	6431.5	6516.3	6905.9	7847.0	8715.8	9195.0	9268.3	8845.0	8081.3	7230.8	6446.9
12.5°	5964.8	6064.1	6462.3	7482.5	8414.0	8944.3	9088.9	8738.0	7907.7	6969.5	6114.3
15°	5749.8	5863.5	6282.0	7247.2	8079.4	8496.9	8616.5	8465.1	7811.3	6928.1	6037.1
17.5°	5873.2	5996.6	6428.6	7267.5	7765.0	7943.4	8039.8	8101.6	7811.3	7177.8	6262.7
20°	6379.4	6512.5	6969.5	7472.9	7504.7	7438.2	7541.3	7758.3	7902.0	7652.2	6804.6
22.5°	7079.5	7235.7	7751.5	7824.8	7377.4	7125.7	7139.2	7479.6	8066.8	8253.9	7556.8
25°	7932.8	8123.7	8648.3	8349.4	7430.4	6939.6	6934.8	7250.1	8227.9	8856.6	8394.7
27.5°	8780.4	8990.6	9451.5	8989.6	7649.3	6905.9	6896.3	7180.7	8385.0	9392.7	9309.7
30°	9491.0	9695.4	10092.7	9453.4	7885.6	6985.0	6938.7	7254.9	8478.6	9740.8	9977.0
32.5°	10069.6	10233.5	10554.6	9772.6	8138.2	7138.3	7038.0	7453.6	8637.7	10034.9	10590.3
35°	10706.0	10878.6	11006.8	10076.3	8421.7	7359.1	7215.4	7768.9	8882.6	10333.8	11262.3
37.5°	11432.0	11603.7	11588.2	10354.0	8781.3	7724.5	7632.9	8268.4	9263.5	10629.8	12012.5
40°	12142.7	12318.2	12192.8	10657.8	9203.7	8327.2	8259.7	9018.5	9773.5	11008.7	12891.9
42.5°	12808.0	12998.0	12729.9	10945.1	9707.0	9087.0	9202.7	9984.7	10411.9	11475.4	13649.8
45°	13344.1	13537.9	13180.2	11224.7	10237.3	10008.8	10356.9	11055.0	11179.4	11869.8	14161.8
47.5°	13733.7	13916.9	13492.6	11504.4	10916.2	11136.0	11742.5	12177.4	11872.7	12212.1	14525.3
50°	13982.5	14125.2	13584.2	11854.4	11807.1	12451.2	13186.0	13398.1	12525.5	12520.7	14966.9
52.5°	14140.6	14205.2	13651.7	12219.8	12736.7	13883.1	14599.6	14666.1	13197.6	12860.1	15561.9
55°	14685.4	14737.5	14130.0	12662.4	13505.2	15137.6	15878.2	15816.4	13958.4	13524.4	16263.9
57.5°	15614.9	15669.9	15118.3	13298.8	14127.1	15912.9	16804.8	16915.7	14850.3	14457.8	17016.0
60°	16081.6	16183.8	15987.1	14104.9	14729.7	16408.5	17436.4	17790.2	15964.9	15688.2	17744.9
62.5°	15658.3	15806.8	16092.2	14998.8	15328.5	16681.4	17633.1	18103.6	17106.6	17122.0	18194.3
65°	14813.6	14932.2	15416.3	15488.6	15675.7	16647.6	17147.1	17665.9	17805.7	18439.2	18170.2
67.5°	13793.5	13837.8	14248.6	15527.2	15172.3	15633.2	15687.2	16071.0	17253.2	18905.9	17440.2
70°	12324.9	12349.0	12707.7	14236.1	13038.5	13139.7	13059.7	13137.8	14832.9	17769.0	15597.6
72.5°	9919.1	9979.9	10490.0	11822.6	9498.7	9206.6	9835.3	9800.5	11423.4	15012.3	11584.4
75°	7303.2	7408.3	8178.7	9522.8	6666.8	6030.4	6489.3	6611.8	8120.8	11612.4	7244.3
77.5°	5113.4	5191.5	5937.8	7000.4	4825.1	4312.1	4146.2	4291.8	5360.2	8400.5	3649.7
80°	2945.8	2974.7	3451.0	4042.1	3251.4	3720.0	3370.0	3470.3	3211.9	3737.4	1569.8
82.5°	1927.5	1932.3	2118.4	2405.8	2024.9	2352.7	1741.4	2226.4	1975.7	1501.3	511.0
85°	1041.4	1047.2	1228.4	1707.7	1146.5	648.0	380.9	782.0	1221.7	344.2	139.8
87.5°	114.7	105.1	370.3	621.0	318.2	58.8	20.2	87.7	195.7	22.2	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°	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8
2.5°	7302.2	7222.2	7022.6	6811.4	6641.7	6482.6	6322.5	6126.8	5975.4	5944.5	5894.4
5°	7146.0	6892.4	6473.9	6053.5	5715.1	5287.9	5016.9	4805.8	4599.4	4586.9	4545.4
7.5°	6600.2	6266.6	5677.5	5096.0	4619.7	4212.8	3802.0	3527.2	3311.2	3235.0	3189.7
10°	6075.7	5700.6	4964.9	4301.5	3876.2	3516.6	3227.3	2940.0	2679.6	2500.3	2419.3
12.5°	5709.3	5294.6	4483.7	3911.9	3607.2	3265.9	2913.0	2554.3	2254.4	2038.4	1906.3
15°	5567.5	5124.9	4322.7	3757.6	3381.6	2949.6	2498.3	2088.5	1755.9	1560.1	1441.5
17.5°	5736.3	5221.4	4310.2	3569.6	3044.1	2507.0	2008.5	1524.5	1211.1	1062.6	986.4
20°	6164.4	5528.0	4305.3	3339.2	2643.0	1982.5	1360.5	1002.8	812.9	729.9	694.3
22.5°	6769.9	5919.5	4343.9	3111.6	2225.5	1416.5	939.2	736.7	639.3	594.9	574.7
25°	7549.0	6469.1	4452.9	2905.3	1833.0	1056.8	731.9	617.1	548.7	513.9	499.5
27.5°	8379.3	7101.6	4622.6	2725.9	1513.9	842.7	626.8	528.4	479.2	455.1	441.6
30°	9063.9	7834.5	4794.2	2526.3	1282.4	734.8	573.7	482.1	425.2	409.8	397.3
32.5°	9662.7	8388.9	4915.7	2346.0	1131.1	652.8	518.8	431.0	392.4	362.6	349.1
35°	10282.7	8850.8	4911.8	2219.7	1026.9	591.1	472.5	385.7	339.4	304.7	294.1
37.5°	10953.8	9372.4	4828.0	2111.7	981.6	541.9	446.4	361.6	315.3	280.6	267.1
40°	11739.6	9920.1	4742.1	2010.4	969.1	502.4	428.1	342.3	293.1	259.4	245.9
42.5°	12505.2	10413.8	4666.9	1935.2	915.1	501.4	411.7	327.8	275.8	243.0	227.6
45°	13117.5	10873.7	4652.5	1889.9	858.2	518.8	403.1	318.2	262.3	229.5	215.0
47.5°	13626.7	11373.2	4745.0	1858.1	804.2	473.4	424.3	311.4	249.7	217.9	201.5
50°	14232.2	11986.5	4962.9	1806.0	747.3	426.2	486.0	313.4	239.1	206.3	189.0
52.5°	15076.9	12835.0	5283.1	1718.3	669.2	382.8	478.3	315.3	227.6	193.8	176.5
55°	16023.8	13894.7	5627.3	1572.7	560.2	325.9	409.8	301.8	205.4	180.3	163.9
57.5°	17018.9	14856.1	5831.7	1399.1	445.5	281.6	327.8	274.8	181.3	162.0	151.4
60°	17175.1	15221.5	5738.2	1186.0	353.9	244.9	243.0	279.6	162.0	142.7	135.0
62.5°	16786.5	14762.5	5286.0	996.1	296.0	215.0	199.6	244.0	146.6	127.3	119.6
65°	16039.2	13521.6	4553.1	897.7	274.8	184.2	165.8	171.6	128.2	110.9	104.1
67.5°	14999.7	11865.0	3738.4	841.8	271.9	158.1	141.7	130.2	110.9	96.4	90.6
70°	12874.5	9884.4	2982.4	810.9	264.2	133.1	119.6	106.1	92.6	82.0	77.1
72.5°	9475.6	7004.2	2320.0	777.2	266.1	106.1	104.1	87.7	74.2	63.6	61.7
75°	5475.0	4001.6	1521.6	629.6	253.6	82.0	86.8	61.7	52.1	44.4	44.4
77.5°	2917.8	2440.5	579.5	262.3	92.6	52.1	49.2	36.6	32.8	27.0	26.0
80°	1271.8	1074.2	174.5	73.3	51.1	28.0	18.3	16.4	14.5	11.6	10.6
82.5°	450.3	388.6	56.9	35.7	22.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	102.2	73.3	0.0	8.7	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°	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8
2.5°	5792.2	5771.0	5645.6	5650.5	5672.6	5704.4	5629.2	5664.0	5757.5	5847.2	5880.9
5°	4478.9	4483.7	4407.5	4454.8	4497.2	4526.1	4404.7	4406.6	4480.8	4582.1	4635.1
7.5°	3156.0	3148.2	3152.1	3264.9	3345.0	3287.1	3332.4	3175.2	3184.9	3257.2	3203.2
10°	2346.0	2239.9	2180.1	2265.0	2352.7	2320.9	2242.8	2191.7	2227.4	2307.4	2301.6
12.5°	1843.6	1691.3	1601.6	1540.9	1613.2	1553.4	1551.5	1507.1	1458.9	1467.6	1595.8
15°	1386.6	1275.7	1169.6	1072.2	1070.3	1050.1	946.9	831.2	821.5	827.3	893.9
17.5°	953.6	916.0	872.6	788.7	766.6	681.7	581.4	535.2	512.0	522.6	544.8
20°	670.1	655.7	660.5	615.2	583.4	502.4	443.6	425.2	421.4	432.0	442.6
22.5°	555.4	529.4	526.5	506.2	474.4	415.6	383.8	373.2	368.3	378.0	385.7
25°	486.0	459.9	449.3	436.8	403.1	362.6	343.3	333.6	328.8	334.6	339.4
27.5°	428.1	404.0	394.4	385.7	352.9	324.0	308.6	299.9	296.0	298.0	302.8
30°	384.7	363.5	351.0	340.4	312.4	292.2	278.7	270.0	266.1	266.1	271.0
32.5°	339.4	327.8	316.3	302.8	276.7	263.2	249.7	240.1	236.2	237.2	241.1
35°	282.5	278.7	281.6	269.0	246.8	235.3	221.8	211.2	208.3	209.2	213.1
37.5°	250.7	233.3	244.0	237.2	224.7	209.2	191.9	182.2	177.4	180.3	182.2
40°	230.5	209.2	201.5	208.3	206.3	181.3	165.8	156.2	152.4	153.3	155.2
42.5°	213.1	188.0	170.7	169.7	181.3	158.1	141.7	133.1	128.2	128.2	130.2
45°	196.7	169.7	148.5	132.1	152.4	134.0	118.6	110.9	105.1	105.1	106.1
47.5°	184.2	154.3	129.2	108.0	114.7	109.9	97.4	89.7	83.9	83.9	84.9
50°	172.6	138.9	111.9	90.6	85.8	90.6	79.1	70.4	66.5	65.6	67.5
52.5°	160.1	123.4	95.5	77.1	67.5	68.5	61.7	55.9	51.1	51.1	53.0
55°	147.5	110.9	82.9	65.6	55.9	51.1	49.2	45.3	41.5	41.5	43.4
57.5°	135.0	97.4	70.4	54.0	44.4	40.5	40.5	37.6	34.7	34.7	36.6
60°	123.4	83.9	57.9	44.4	34.7	33.7	34.7	31.8	29.9	29.9	31.8
62.5°	109.9	71.4	47.2	36.6	28.0	27.0	29.9	28.0	26.0	26.0	28.0
65°	93.5	60.7	37.6	28.0	21.2	21.2	25.1	23.1	21.2	21.2	23.1
67.5°	79.1	51.1	28.9	20.2	15.4	16.4	21.2	19.3	18.3	18.3	20.2
70°	65.6	39.5	20.2	12.5	8.7	12.5	16.4	16.4	16.4	16.4	18.3
72.5°	49.2	27.0	11.6	4.8	3.9	8.7	13.5	15.4	14.5	14.5	17.4
75°	31.8	15.4	3.9	0.0	0.0	4.8	10.6	12.5	12.5	11.6	14.5
77.5°	18.3	4.8	0.0	0.0	0.0	0.0	6.7	5.8	4.8	3.9	6.7
80°	4.8	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-SA8A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8
2.5°	6016.9	6130.6	6290.7	6460.4	6721.7	6929.0	7132.5	7307.0	7374.5	7402.5
5°	4762.4	4929.2	5163.5	5464.4	5935.9	6360.1	6790.2	7223.1	7411.2	7458.4
7.5°	3417.3	3630.4	3928.3	4305.3	4857.8	5407.5	6008.2	6643.6	6934.8	7008.1
10°	2529.2	2789.5	3130.9	3528.2	4055.6	4620.6	5275.4	6001.4	6334.1	6431.5
12.5°	1794.5	2146.4	2603.5	3086.5	3543.6	4047.9	4710.3	5510.6	5859.7	5964.8
15°	1053.9	1394.3	1935.2	2582.2	3167.5	3678.6	4351.6	5259.0	5643.7	5749.8
17.5°	604.6	774.3	1183.1	1904.4	2698.9	3406.7	4238.8	5321.6	5774.8	5873.2
20°	461.9	515.9	681.7	1226.5	2151.2	3139.6	4238.8	5676.5	6234.8	6379.4
22.5°	404.0	443.6	511.0	731.9	1583.3	2853.2	4288.0	6189.5	6919.4	7079.5
25°	358.7	394.4	452.2	550.6	1079.9	2512.8	4404.7	6819.1	7725.5	7932.8
27.5°	321.1	354.8	406.9	482.1	738.6	2102.0	4561.8	7557.7	8614.5	8780.4
30°	287.3	319.2	366.4	419.4	569.9	1636.3	4695.9	8253.9	9312.6	9491.0
32.5°	255.5	284.5	326.9	366.4	466.7	1210.1	4710.3	8805.4	9892.1	10069.6
35°	225.6	251.7	290.2	321.1	386.7	955.6	4485.6	9283.7	10471.7	10706.0
37.5°	196.7	221.8	255.5	278.7	340.4	779.1	4142.4	9816.9	11215.1	11432.0
40°	169.7	191.9	226.6	242.0	322.1	598.8	3769.2	10376.2	11944.1	12142.7
42.5°	144.6	165.8	199.6	229.5	282.5	447.4	3366.2	10900.7	12599.7	12808.0
45°	120.5	142.7	176.5	243.0	234.3	334.6	2935.1	11248.8	13117.5	13344.1
47.5°	97.4	122.5	168.7	231.4	187.1	245.9	2593.8	11578.6	13510.0	13733.7
50°	78.1	103.2	190.0	206.3	153.3	188.0	2451.1	11873.7	13767.4	13982.5
52.5°	63.6	86.8	179.3	158.1	128.2	155.2	2528.2	12351.9	14005.6	14140.6
55°	53.0	68.5	108.0	109.9	109.0	132.1	2623.7	13038.5	14621.7	14685.4
57.5°	46.3	55.0	75.2	84.9	91.6	117.6	2625.6	14023.9	15575.4	15614.9
60°	39.5	48.2	62.7	68.5	79.1	105.1	2530.2	14368.2	15950.5	16081.6
62.5°	34.7	42.4	52.1	56.9	66.5	94.5	2306.5	13869.6	15435.6	15658.3
65°	30.9	38.6	43.4	48.2	58.8	84.9	1938.1	12872.6	14581.3	14813.6
67.5°	27.0	33.7	38.6	43.4	53.0	75.2	1427.1	11714.6	13600.6	13793.5
70°	24.1	29.9	34.7	38.6	46.3	63.6	865.9	9940.4	12244.9	12324.9
72.5°	23.1	27.0	31.8	34.7	40.5	55.9	438.7	7305.1	9789.0	9919.1
75°	20.2	24.1	28.9	30.9	35.7	48.2	178.4	4798.1	7093.9	7303.2
77.5°	16.4	22.2	26.0	28.0	30.9	39.5	90.6	3066.3	4978.4	5113.4
80°	5.8	16.4	22.2	23.1	26.0	28.9	59.8	1678.7	2887.9	2945.8
82.5°	0.0	10.6	17.4	16.4	18.3	22.2	38.6	798.4	1906.3	1927.5
85°	0.0	4.8	13.5	10.6	7.7	15.4	13.5	174.5	999.9	1041.4
87.5°	0.0	0.0	1.0	4.8	3.9	5.8	1.9	1.0	90.6	114.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)