

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: P324283

Luminaire Tested: **GLEON-SA9B-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324283
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-SA9B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 27843 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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

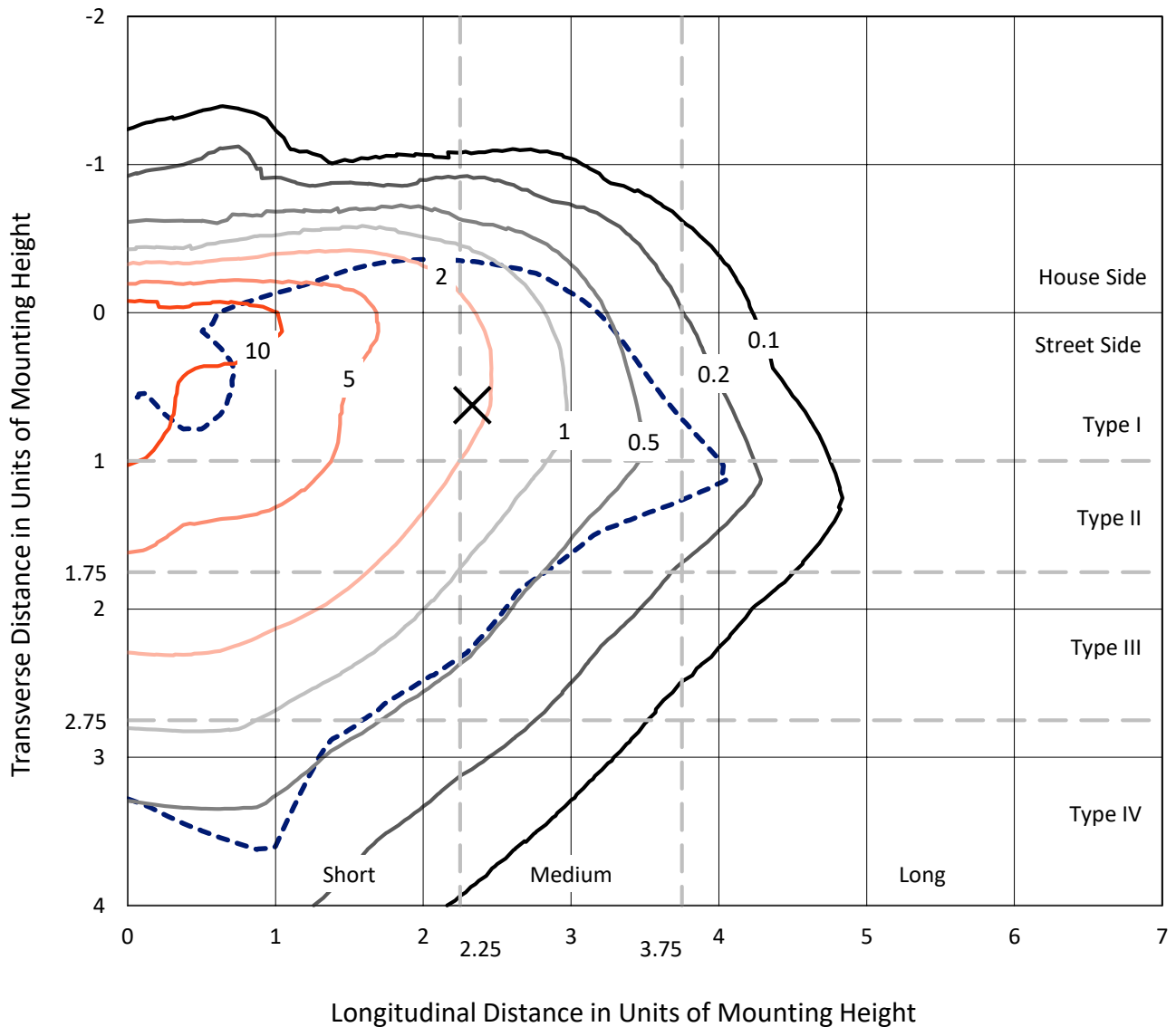




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Iso-Footcandle Lines of Horizontal Illumination

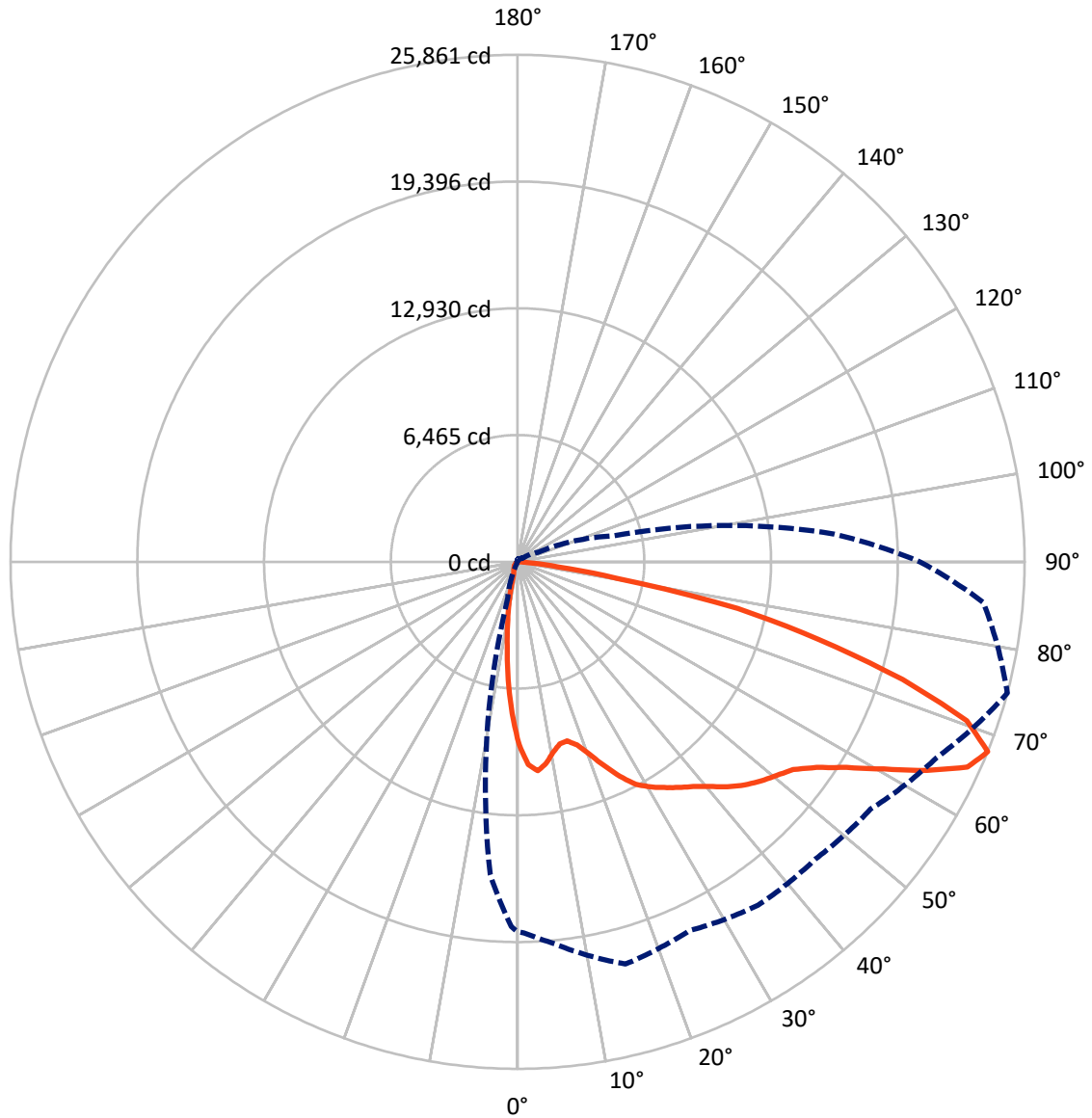
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 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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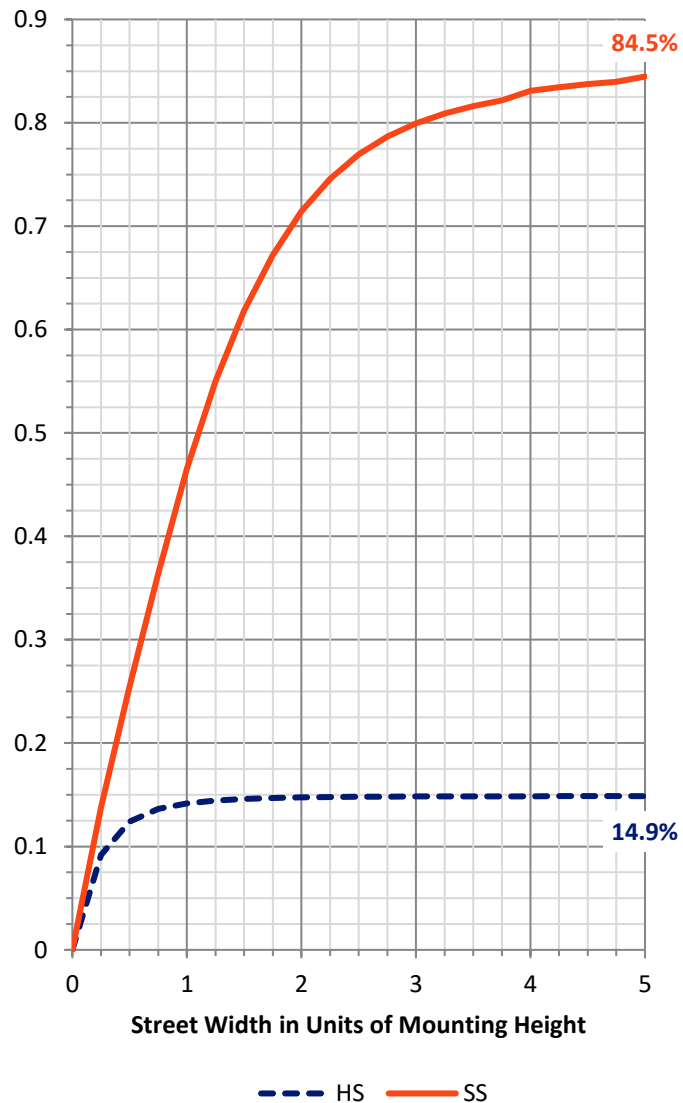
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4178.1	0.0	4178.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	23664.9	0.0	23664.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	27843.0	0.0	27843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.5	2.5
10°-20°	1395.1	5.0
20°-30°	1973.7	7.1
30°-40°	2901.9	10.4
40°-50°	4171.0	15.0
50°-60°	5871.7	21.1
60°-70°	6857.6	24.6
70°-80°	3498.5	12.6
80°-90°	464.8	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°	27843.0	100.0
0°-180°	27843.0	100.0

Coefficient of Utilization

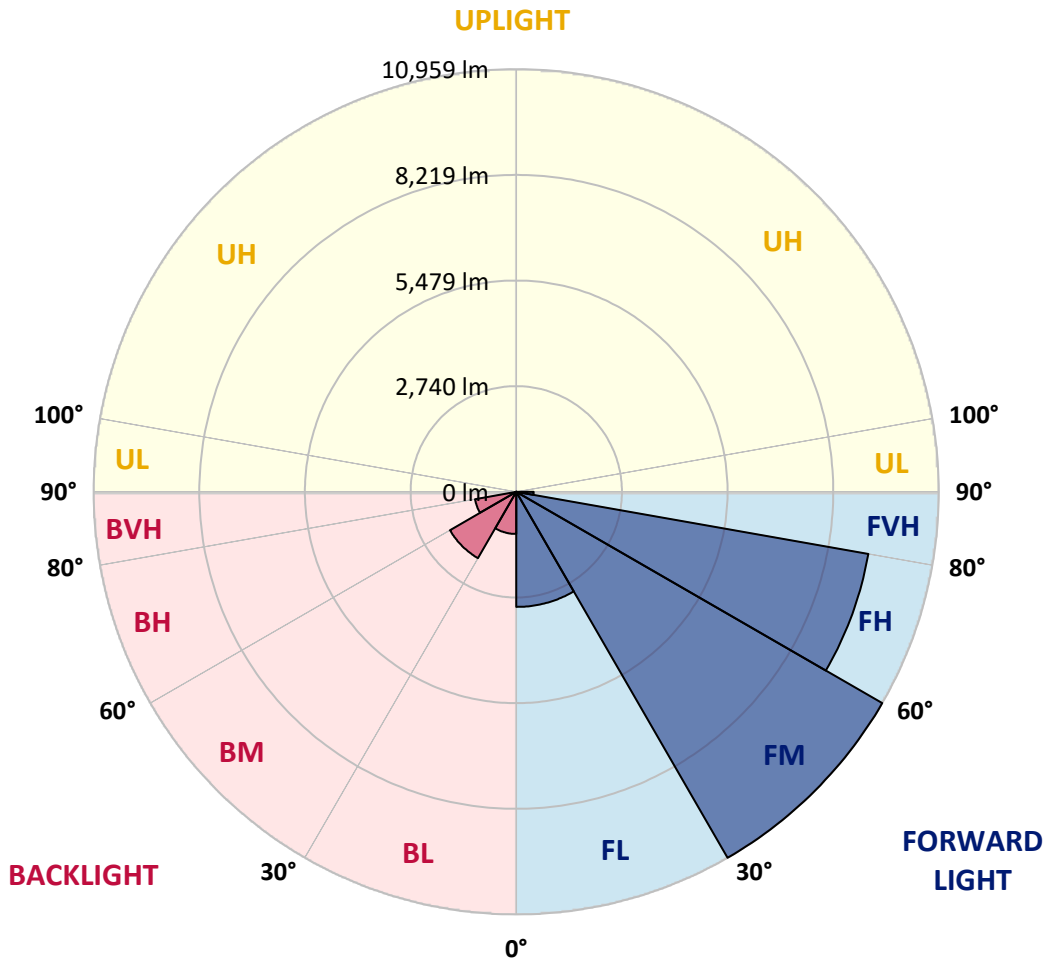


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2984.8	10.7			
FM (30°-60°)	10958.5	39.4			
FH (60°-80°)	9270.9	33.3			G4/12000
FVH (80°-90°)	450.7	1.6			G3/500
BL (0°-30°)	1092.6	3.9	B3/2500		
BM (30°-60°)	1986.2	7.1	B2/2500		
BH (60°-80°)	1085.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9
2.5°	10125.6	10141.5	10223.2	10413.2	10620.2	10636.1	10775.9	10632.1	10583.3	10351.2	10111.1
5°	10202.1	10262.8	10543.7	11101.7	11585.7	11741.4	11852.1	11569.9	11273.1	10706.0	10100.6
7.5°	9586.2	9687.7	10129.6	11176.8	12042.1	12424.6	12497.1	12055.3	11328.5	10394.7	9484.6
10°	8797.4	8913.5	9446.4	10733.7	11922.0	12577.6	12677.8	12098.8	11054.2	9890.9	8818.5
12.5°	8159.1	8294.9	8839.6	10235.1	11509.2	12234.6	12432.5	11952.4	10816.8	9533.4	8363.5
15°	7864.9	8020.6	8593.0	9913.3	11051.5	11622.6	11786.2	11579.1	10684.9	9476.7	8258.0
17.5°	8033.8	8202.6	8793.5	9941.0	10621.6	10865.6	10997.5	11081.9	10684.9	9818.3	8566.6
20°	8726.2	8908.2	9533.4	10221.9	10265.4	10174.4	10315.6	10612.3	10808.8	10467.2	9307.9
22.5°	9683.8	9897.4	10603.1	10703.3	10091.3	9747.1	9765.6	10231.1	11034.4	11290.3	10336.7
25°	10851.1	11112.2	11829.7	11420.8	10163.9	9492.5	9485.9	9917.2	11254.7	12114.6	11482.8
27.5°	12010.4	12298.0	12928.4	12296.6	10463.3	9446.4	9433.2	9822.3	11469.6	12848.0	12734.5
30°	12982.5	13262.1	13805.5	12931.1	10786.4	9554.5	9491.2	9923.8	11597.6	13324.1	13647.2
32.5°	13773.9	13998.1	14437.3	13367.6	11132.0	9764.2	9627.1	10195.5	11815.2	13726.4	14486.1
35°	14644.4	14880.5	15055.9	13783.1	11519.8	10066.3	9869.8	10626.8	12150.2	14135.3	15405.4
37.5°	15637.5	15872.3	15851.2	14163.0	12011.7	10566.2	10440.9	11310.1	12671.2	14540.2	16431.6
40°	16609.6	16849.7	16678.2	14578.4	12589.4	11390.5	11298.2	12336.2	13368.9	15058.5	17634.4
42.5°	17519.7	17779.5	17412.9	14971.5	13277.9	12429.8	12588.1	13657.8	14242.1	15696.9	18671.1
45°	18253.0	18518.2	18028.8	15354.0	14003.4	13690.8	14166.9	15121.8	15292.0	16236.4	19371.5
47.5°	18785.9	19036.5	18456.2	15736.5	14931.9	15232.6	16062.3	16657.1	16240.3	16704.6	19868.8
50°	19126.2	19321.4	18581.5	16215.3	16150.6	17031.7	18036.7	18326.9	17133.2	17126.7	20472.8
52.5°	19342.5	19430.9	18673.8	16715.1	17422.1	18990.3	19970.3	20061.3	18052.6	17590.9	21286.6
55°	20087.7	20158.9	19328.0	17320.5	18473.3	20706.3	21719.3	21634.8	19093.2	18499.7	22246.8
57.5°	21359.2	21434.4	20679.9	18191.0	19324.0	21766.7	22986.8	23138.5	20313.2	19776.4	23275.6
60°	21997.6	22137.4	21868.3	19293.7	20148.4	22444.7	23850.7	24334.7	21838.0	21459.4	24272.8
62.5°	21418.5	21621.7	22012.1	20516.4	20967.5	22817.9	24119.8	24763.4	23399.6	23420.7	24887.4
65°	20263.1	20425.4	21087.5	21186.4	21442.3	22771.8	23455.0	24164.6	24355.9	25222.4	24854.4
67.5°	18867.7	18928.3	19490.2	21239.2	20753.8	21384.2	21458.1	21983.0	23600.1	25860.8	23856.0
70°	16858.9	16891.9	17382.5	19473.1	17834.9	17973.4	17863.9	17970.8	20289.5	24305.7	21335.4
72.5°	13568.1	13651.2	14348.9	16171.7	12993.0	12593.4	13453.4	13405.9	15625.7	20534.8	15845.9
75°	9989.8	10133.5	11187.4	13026.0	9119.3	8248.8	8876.6	9044.1	11108.3	15884.2	9909.3
77.5°	6994.4	7101.3	8122.1	9575.6	6600.1	5898.4	5671.5	5870.7	7332.1	11490.7	4992.3
80°	4029.4	4069.0	4720.5	5529.1	4447.5	5088.5	4609.8	4746.9	4393.4	5112.3	2147.3
82.5°	2636.6	2643.2	2897.7	3290.8	2769.8	3218.3	2382.0	3045.5	2702.5	2053.6	699.0
85°	1424.5	1432.4	1680.4	2335.9	1568.2	886.3	521.0	1069.7	1671.1	470.9	191.2
87.5°	157.0	143.8	506.5	849.4	435.3	80.5	27.7	120.0	267.7	30.3	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°	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9
2.5°	9988.5	9879.0	9606.0	9317.1	9085.0	8867.3	8648.4	8380.6	8173.6	8131.4	8062.8
5°	9774.8	9427.9	8855.5	8280.4	7817.5	7233.2	6862.5	6573.7	6291.4	6274.3	6217.6
7.5°	9028.3	8571.9	7766.0	6970.7	6319.1	5762.5	5200.6	4824.7	4529.3	4425.1	4363.1
10°	8310.7	7797.7	6791.3	5883.9	5302.2	4810.2	4414.5	4021.5	3665.4	3420.1	3309.3
12.5°	7809.5	7242.4	6133.1	5351.0	4934.2	4467.3	3984.6	3493.9	3083.7	2788.3	2607.6
15°	7615.7	7010.3	5912.9	5140.0	4625.6	4034.7	3417.4	2856.9	2401.8	2134.1	1971.8
17.5°	7846.5	7142.1	5895.7	4882.8	4163.9	3429.3	2747.4	2085.3	1656.6	1453.5	1349.3
20°	8432.1	7561.6	5889.1	4567.5	3615.3	2711.8	1861.0	1371.7	1111.9	998.5	949.6
22.5°	9260.4	8097.1	5941.9	4256.3	3044.2	1937.5	1284.7	1007.7	874.5	813.8	786.1
25°	10326.1	8848.9	6090.9	3974.0	2507.3	1445.6	1001.1	844.1	750.5	703.0	683.2
27.5°	11461.7	9714.1	6323.1	3728.7	2070.8	1152.8	857.3	722.8	655.5	622.5	604.1
30°	12398.2	10716.5	6557.9	3455.7	1754.2	1005.0	784.8	659.5	581.7	560.6	543.4
32.5°	13217.3	11474.9	6724.0	3209.0	1547.1	892.9	709.6	589.6	536.8	495.9	477.5
35°	14065.4	12106.7	6718.8	3036.2	1404.7	808.5	646.3	527.6	464.3	416.8	402.3
37.5°	14983.3	12820.3	6604.0	2888.5	1342.7	741.3	610.7	494.6	431.3	383.8	365.4
40°	16058.3	13569.4	6486.6	2750.0	1325.6	687.2	585.6	468.2	401.0	354.8	336.3
42.5°	17105.5	14244.7	6383.7	2647.1	1251.7	685.9	563.2	448.4	377.2	332.4	311.3
45°	17943.1	14873.9	6364.0	2585.2	1173.9	709.6	551.3	435.3	358.8	313.9	294.1
47.5°	18639.5	15557.1	6490.6	2541.6	1100.0	647.6	580.3	426.0	341.6	298.1	275.7
50°	19467.8	16395.9	6788.7	2470.4	1022.2	583.0	664.8	428.7	327.1	282.3	258.5
52.5°	20623.2	17556.6	7226.6	2350.4	915.4	523.6	654.2	431.3	311.3	265.1	241.4
55°	21918.4	19006.2	7697.4	2151.2	766.3	445.8	560.6	412.8	280.9	246.6	224.2
57.5°	23279.6	20321.2	7977.0	1913.8	609.4	385.1	448.4	375.9	248.0	221.6	207.1
60°	23493.3	20821.0	7849.1	1622.3	484.1	335.0	332.4	382.5	221.6	195.2	184.7
62.5°	22961.7	20193.2	7230.5	1362.5	404.9	294.1	273.0	333.7	200.5	174.1	163.6
65°	21939.5	18495.7	6228.1	1227.9	375.9	251.9	226.9	234.8	175.4	151.7	142.4
67.5°	20517.7	16229.8	5113.6	1151.4	371.9	216.3	193.9	178.1	151.7	131.9	124.0
70°	17610.7	13520.6	4079.5	1109.2	361.4	182.0	163.6	145.1	126.6	112.1	105.5
72.5°	12961.4	9580.9	3173.4	1063.1	364.0	145.1	142.4	120.0	101.6	87.1	84.4
75°	7489.0	5473.7	2081.3	861.3	346.9	112.1	118.7	84.4	71.2	60.7	60.7
77.5°	3991.2	3338.3	792.7	358.8	126.6	71.2	67.3	50.1	44.8	36.9	35.6
80°	1739.7	1469.3	238.7	100.2	69.9	38.2	25.1	22.4	19.8	15.8	14.5
82.5°	616.0	531.5	77.8	48.8	30.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	139.8	100.2	0.0	11.9	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°	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9
2.5°	7923.0	7894.0	7722.5	7729.1	7759.4	7802.9	7700.1	7747.6	7875.5	7998.2	8044.3
5°	6126.6	6133.1	6029.0	6093.6	6151.6	6191.2	6025.0	6027.6	6129.2	6267.7	6340.2
7.5°	4316.9	4306.4	4311.7	4466.0	4575.5	4496.3	4558.3	4343.3	4356.5	4455.4	4381.6
10°	3209.0	3063.9	2982.2	3098.2	3218.3	3174.7	3067.9	2998.0	3046.8	3156.3	3148.3
12.5°	2521.8	2313.4	2190.8	2107.7	2206.6	2124.8	2122.2	2061.5	1995.6	2007.5	2182.9
15°	1896.7	1745.0	1599.9	1466.7	1464.0	1436.3	1295.2	1136.9	1123.8	1131.7	1222.7
17.5°	1304.4	1253.0	1193.7	1078.9	1048.6	932.5	795.3	732.0	700.4	714.9	745.2
20°	916.7	896.9	903.5	841.5	798.0	687.2	606.7	581.7	576.4	590.9	605.4
22.5°	759.7	724.1	720.2	692.5	648.9	568.5	524.9	510.4	503.8	517.0	527.6
25°	664.8	629.1	614.6	597.5	551.3	495.9	469.5	456.4	449.8	457.7	464.3
27.5°	585.6	552.6	539.5	527.6	482.7	443.2	422.1	410.2	404.9	407.6	414.2
30°	526.3	497.2	480.1	465.6	427.3	399.6	381.2	369.3	364.0	364.0	370.6
32.5°	464.3	448.4	432.6	414.2	378.5	360.1	341.6	328.4	323.1	324.5	329.7
35°	386.5	381.2	385.1	368.0	337.7	321.8	303.4	288.9	284.9	286.2	291.5
37.5°	342.9	319.2	333.7	324.5	307.3	286.2	262.5	249.3	242.7	246.6	249.3
40°	315.2	286.2	275.7	284.9	282.3	248.0	226.9	213.7	208.4	209.7	212.4
42.5°	291.5	257.2	233.5	232.1	248.0	216.3	193.9	182.0	175.4	175.4	178.1
45°	269.1	232.1	203.1	180.7	208.4	183.3	162.2	151.7	143.8	143.8	145.1
47.5°	251.9	211.0	176.7	147.7	157.0	150.4	133.2	122.7	114.7	114.7	116.1
50°	236.1	189.9	153.0	124.0	117.4	124.0	108.2	96.3	91.0	89.7	92.3
52.5°	218.9	168.8	130.6	105.5	92.3	93.6	84.4	76.5	69.9	69.9	72.5
55°	201.8	151.7	113.4	89.7	76.5	69.9	67.3	62.0	56.7	56.7	59.4
57.5°	184.7	133.2	96.3	73.9	60.7	55.4	55.4	51.4	47.5	47.5	50.1
60°	168.8	114.7	79.1	60.7	47.5	46.2	47.5	43.5	40.9	40.9	43.5
62.5°	150.4	97.6	64.6	50.1	38.2	36.9	40.9	38.2	35.6	35.6	38.2
65°	127.9	83.1	51.4	38.2	29.0	29.0	34.3	31.7	29.0	29.0	31.7
67.5°	108.2	69.9	39.6	27.7	21.1	22.4	29.0	26.4	25.1	25.1	27.7
70°	89.7	54.1	27.7	17.1	11.9	17.1	22.4	22.4	22.4	22.4	25.1
72.5°	67.3	36.9	15.8	6.6	5.3	11.9	18.5	21.1	19.8	19.8	23.7
75°	43.5	21.1	5.3	0.0	0.0	6.6	14.5	17.1	17.1	15.8	19.8
77.5°	25.1	6.6	0.0	0.0	0.0	0.0	9.2	7.9	6.6	5.3	9.2
80°	6.6	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



REPORT NUMBER: P324283
 CATALOG NUMBER: GLEON-SA9B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9	9340.9
2.5°	8230.3	8385.9	8604.9	8837.0	9194.4	9478.0	9756.3	9995.1	10087.4	10125.6
5°	6514.3	6742.5	7063.0	7474.5	8119.5	8699.8	9288.1	9880.3	10137.5	10202.1
7.5°	4674.4	4965.9	5373.4	5889.1	6644.9	7396.7	8218.4	9087.6	9485.9	9586.2
10°	3459.6	3815.7	4282.7	4826.1	5547.5	6320.4	7216.0	8209.2	8664.2	8797.4
12.5°	2454.6	2936.0	3561.2	4222.0	4847.2	5537.0	6443.1	7537.8	8015.3	8159.1
15°	1441.6	1907.2	2647.1	3532.2	4332.8	5031.8	5952.5	7193.6	7719.9	7864.9
17.5°	827.0	1059.1	1618.4	2604.9	3691.8	4659.9	5798.1	7279.3	7899.2	8033.8
20°	631.8	705.6	932.5	1677.7	2942.6	4294.5	5798.1	7764.7	8528.4	8726.2
22.5°	552.6	606.7	699.0	1001.1	2165.7	3902.8	5865.4	8466.4	9464.8	9683.8
25°	490.7	539.5	618.6	753.1	1477.2	3437.2	6025.0	9327.7	10567.5	10851.1
27.5°	439.2	485.4	556.6	659.5	1010.3	2875.3	6240.0	10338.0	11783.6	12010.4
30°	393.0	436.6	501.2	573.7	779.5	2238.3	6423.3	11290.3	12738.5	12982.5
32.5°	349.5	389.1	447.1	501.2	638.4	1655.3	6443.1	12044.7	13531.2	13773.9
35°	308.6	344.2	397.0	439.2	528.9	1307.1	6135.8	12698.9	14323.9	14644.4
37.5°	269.1	303.4	349.5	381.2	465.6	1065.7	5666.2	13428.3	15340.8	15637.5
40°	232.1	262.5	310.0	331.1	440.5	819.1	5155.8	14193.3	16337.9	16609.6
42.5°	197.8	226.9	273.0	313.9	386.5	612.0	4604.5	14910.8	17234.8	17519.7
45°	164.9	195.2	241.4	332.4	320.5	457.7	4014.9	15386.9	17943.1	18253.0
47.5°	133.2	167.5	230.8	316.5	255.9	336.3	3548.0	15838.0	18479.9	18785.9
50°	106.8	141.1	259.8	282.3	209.7	257.2	3352.8	16241.6	18832.1	19126.2
52.5°	87.1	118.7	245.3	216.3	175.4	212.4	3458.3	16895.8	19157.8	19342.5
55°	72.5	93.6	147.7	150.4	149.0	180.7	3588.9	17834.9	20000.7	20087.7
57.5°	63.3	75.2	102.9	116.1	125.3	160.9	3591.5	19182.9	21305.1	21359.2
60°	54.1	65.9	85.7	93.6	108.2	143.8	3460.9	19653.8	21818.2	21997.6
62.5°	47.5	58.0	71.2	77.8	91.0	129.3	3154.9	18971.9	21113.9	21418.5
65°	42.2	52.8	59.4	65.9	80.5	116.1	2651.1	17608.1	19945.3	20263.1
67.5°	36.9	46.2	52.8	59.4	72.5	102.9	1952.1	16024.0	18603.9	18867.7
70°	33.0	40.9	47.5	52.8	63.3	87.1	1184.4	13597.1	16749.4	16858.9
72.5°	31.7	36.9	43.5	47.5	55.4	76.5	600.1	9992.4	13390.0	13568.1
75°	27.7	33.0	39.6	42.2	48.8	65.9	244.0	6563.1	9703.6	9989.8
77.5°	22.4	30.3	35.6	38.2	42.2	54.1	124.0	4194.3	6809.8	6994.4
80°	7.9	22.4	30.3	31.7	35.6	39.6	81.8	2296.3	3950.3	4029.4
82.5°	0.0	14.5	23.7	22.4	25.1	30.3	52.8	1092.1	2607.6	2636.6
85°	0.0	6.6	18.5	14.5	10.6	21.1	18.5	238.7	1367.8	1424.5
87.5°	0.0	0.0	1.3	6.6	5.3	7.9	2.6	1.3	124.0	157.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)