

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: P324611

Luminaire Tested: **GLEON-SA7C-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324611
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-SA7C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 27263 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

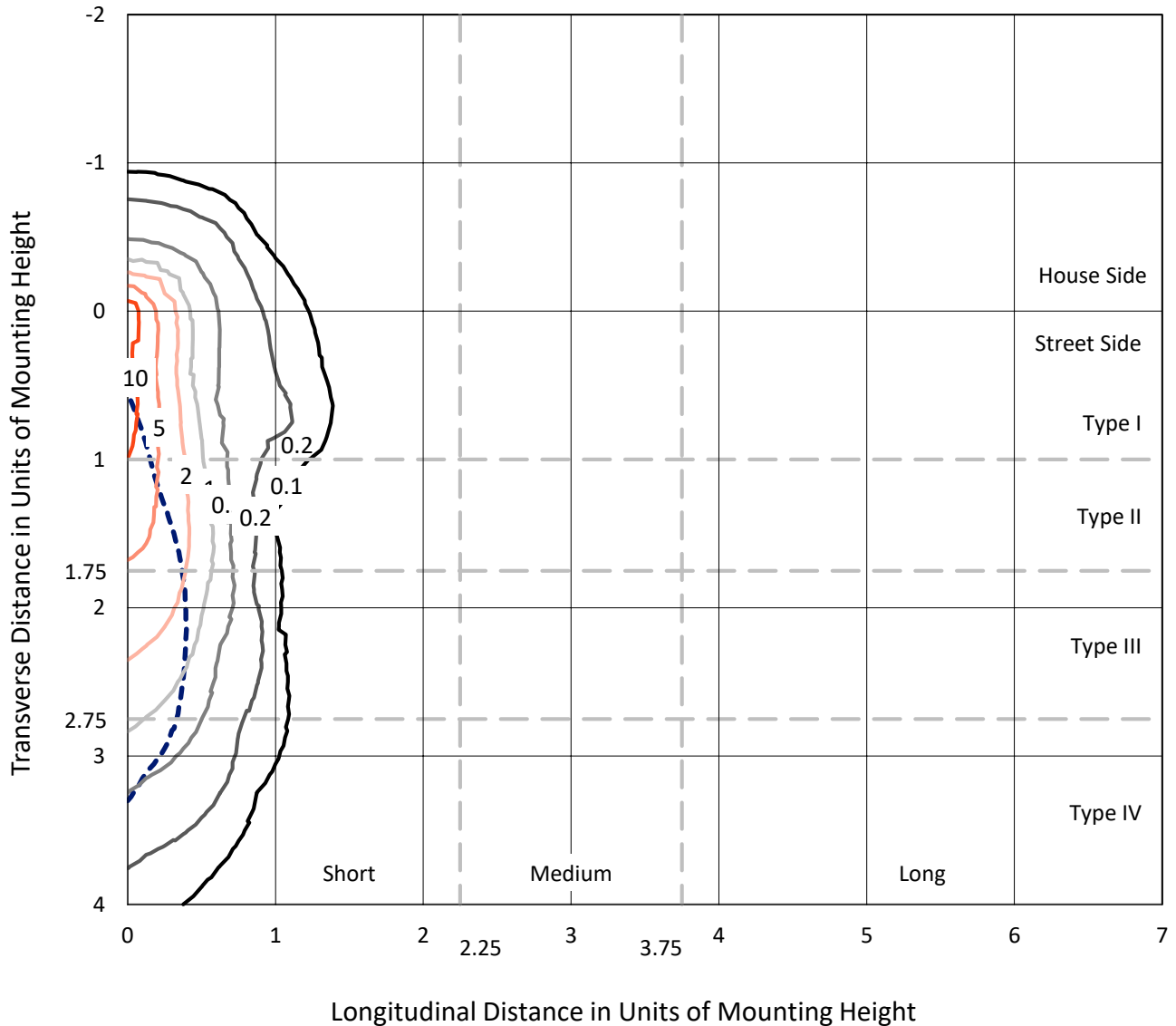
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

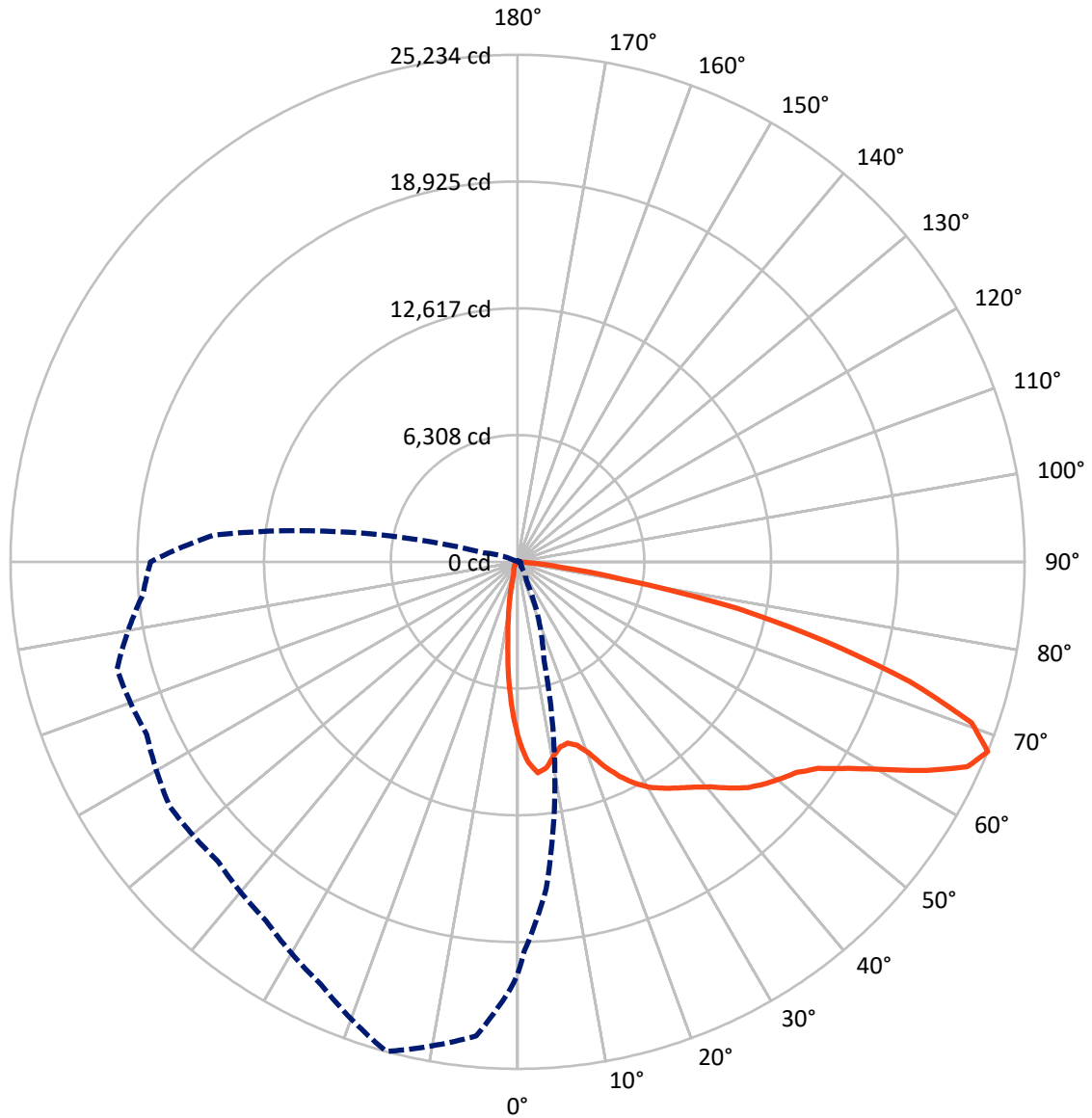
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type 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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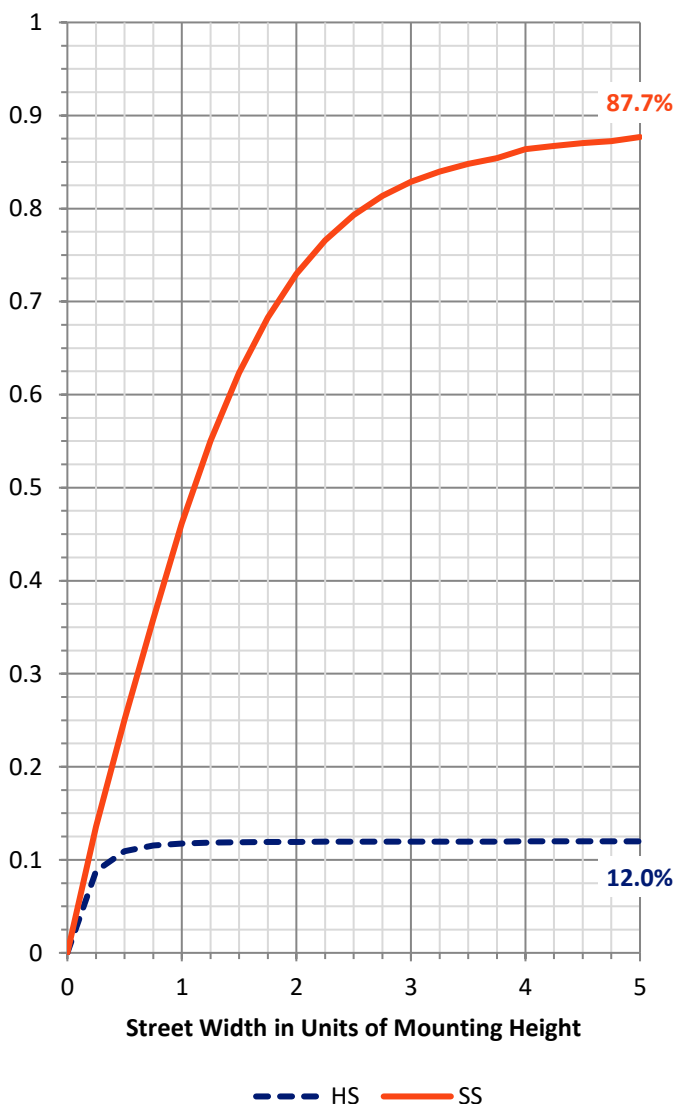
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.7	0.0	3299.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23963.3	0.0	23963.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	27263.0	0.0	27263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.6	2.5
10°-20°	1356.7	5.0
20°-30°	1926.5	7.1
30°-40°	2845.6	10.4
40°-50°	4104.0	15.1
50°-60°	5761.1	21.1
60°-70°	6715.8	24.6
70°-80°	3433.2	12.6
80°-90°	438.5	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°	27263.0	100.0
0°-180°	27263.0	100.0

Coefficient of Utilization

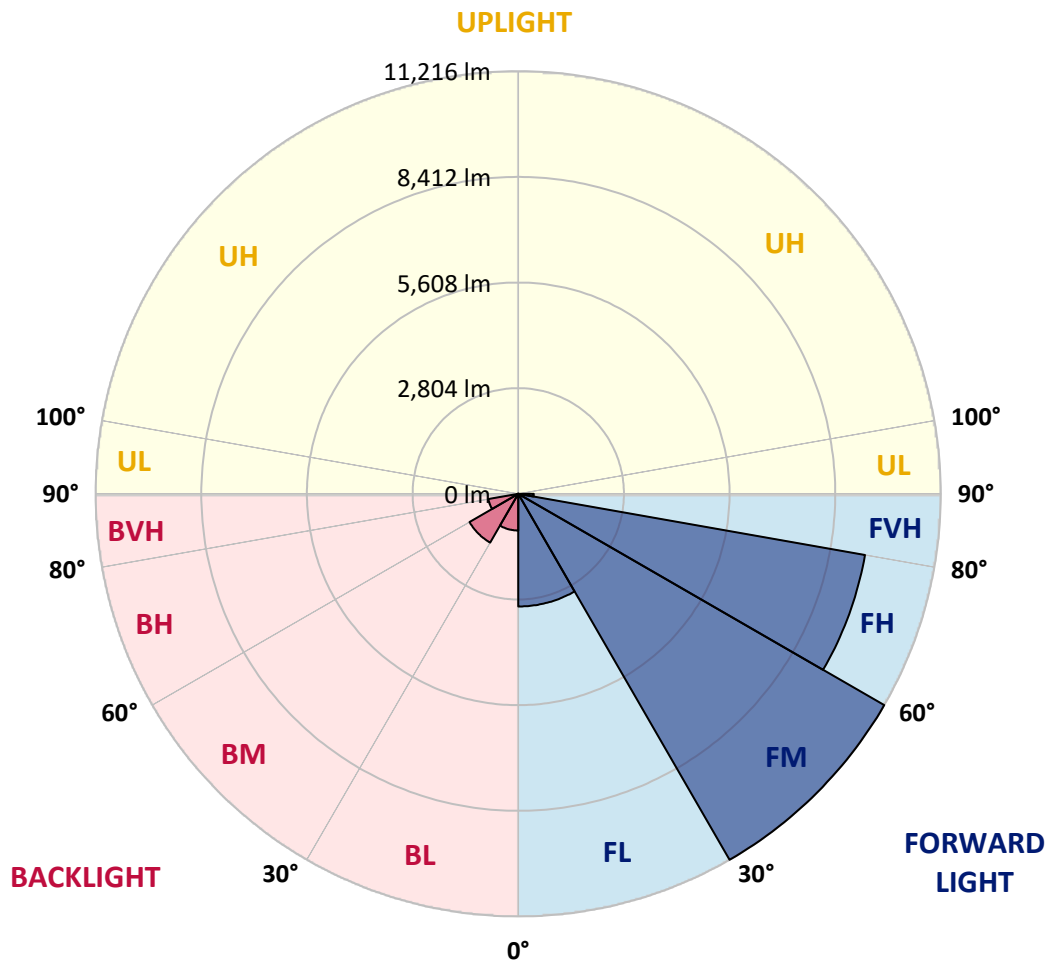


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2990.2	11.0			
FM (30°-60°)	11216.4	41.1			
FH (60°-80°)	9344.8	34.3			G4/12000
FVH (80°-90°)	411.8	1.5			G3/500
BL (0°-30°)	974.6	3.6	B2/1000		
BM (30°-60°)	1494.2	5.5	B2/2500		
BH (60°-80°)	804.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	26.6	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9
2.5°	9724.3	9649.4	9566.7	9296.8	9046.2	8759.5	8525.7	8363.0	8158.9	7894.1	7826.9
5°	9654.5	9574.4	9314.8	8714.3	8188.6	7677.1	7183.7	6894.4	6535.4	6171.1	6080.7
7.5°	8953.2	8869.2	8494.7	7672.0	6964.2	6225.4	5584.8	5188.3	4782.7	4449.5	4272.5
10°	8223.5	8131.8	7710.7	6712.3	5840.5	5172.8	4702.6	4324.2	3940.6	3584.1	3300.0
12.5°	7721.0	7600.9	7143.7	6012.3	5252.8	4799.5	4360.4	3907.0	3387.8	3005.5	2692.9
15°	7510.5	7373.6	6890.6	5742.3	5044.9	4512.8	3940.6	3383.9	2775.6	2337.8	2051.0
17.5°	7673.2	7495.0	6977.1	5724.3	4784.0	4059.4	3336.1	2682.6	2022.6	1579.6	1375.5
20°	8226.0	7992.3	7334.9	5719.1	4467.6	3520.8	2603.8	1865.0	1332.9	1072.0	964.8
22.5°	9096.6	8787.9	7848.9	5760.4	4140.8	2955.1	1880.5	1267.0	1001.0	865.4	802.1
25°	10147.9	9790.1	8589.0	5906.4	3854.1	2404.9	1366.5	1001.0	844.7	745.2	692.3
27.5°	11147.6	10857.0	9524.1	6116.9	3631.9	1960.6	1109.5	848.6	722.0	656.1	613.5
30°	12146.0	11780.5	10483.7	6367.5	3364.6	1659.7	975.1	773.7	647.1	577.3	550.2
32.5°	12871.8	12568.3	11235.4	6548.3	3079.1	1463.4	871.8	707.8	604.5	533.4	493.4
35°	13725.6	13382.0	11879.9	6588.3	2895.7	1339.4	784.0	636.7	524.4	461.1	418.5
37.5°	14647.8	14220.2	12623.9	6500.5	2752.3	1278.7	718.1	604.5	489.5	424.9	379.7
40°	15668.1	15185.1	13338.1	6373.9	2611.6	1258.0	667.7	579.9	462.4	396.5	350.0
42.5°	16742.7	16173.1	13956.8	6240.9	2522.4	1187.0	662.6	555.4	441.7	370.7	324.2
45°	17645.5	17068.2	14592.2	6197.0	2459.2	1109.5	684.5	538.6	427.5	350.0	304.8
47.5°	18364.9	17818.6	15243.2	6295.1	2423.0	1038.4	623.8	560.5	419.8	331.9	288.0
50°	19223.8	18605.1	16160.2	6588.3	2370.0	967.4	564.4	641.9	419.8	320.3	273.8
52.5°	20301.0	19688.8	17183.1	7043.0	2264.1	869.2	507.6	643.2	423.6	304.8	255.7
55°	21655.8	21211.5	18643.9	7541.5	2094.9	724.6	439.1	552.8	408.1	276.4	238.9
57.5°	22955.2	22592.2	19975.5	7882.5	1868.9	565.7	382.3	445.6	373.3	242.8	213.1
59°	23310.4	22913.8	20463.7	7898.0	1699.7	493.4	353.9	368.1	365.5	227.3	197.6
60°	23310.4	22889.3	20604.5	7815.3	1577.0	453.3	335.8	328.1	381.0	217.0	188.6
62.5°	22888.0	22296.5	20147.3	7256.1	1286.4	386.2	293.2	271.2	342.3	195.0	166.6
65°	22009.7	21148.3	18589.6	6244.8	1146.9	353.9	253.1	222.2	237.6	171.8	145.9
67.5°	20545.1	19377.5	16343.6	5044.9	1091.4	344.9	218.3	188.6	179.5	147.2	127.9
70°	17965.8	16670.4	13617.1	3966.4	1043.6	341.0	183.4	158.9	144.7	124.0	108.5
72.5°	13075.9	11724.9	9667.4	3101.1	1015.2	348.7	147.2	133.0	118.8	96.9	84.0
75°	7479.5	6594.8	5433.7	2048.4	865.4	333.2	113.7	111.1	85.2	69.7	58.1
77.5°	3864.4	3746.9	3256.1	786.6	414.6	145.9	74.9	64.6	50.4	42.6	34.9
80°	1667.4	1649.3	1427.2	227.3	109.8	81.4	42.6	27.1	23.2	18.1	14.2
82.5°	576.0	576.0	507.6	76.2	49.1	40.0	5.2	0.0	0.0	0.0	0.0
85°	116.2	130.4	91.7	0.0	16.8	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°	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9
2.5°	7745.6	7589.3	7579.0	7480.8	7358.1	7302.6	7270.3	7327.1	7396.9	7404.6	7509.2
5°	6012.3	5848.3	5916.7	5742.3	5777.2	5742.3	5685.5	5695.8	5726.8	5630.0	5750.1
7.5°	4222.2	4098.2	4177.0	4130.5	4192.5	4217.0	4182.1	4130.5	3978.1	3960.0	4064.6
10°	3182.4	3041.7	2957.7	2869.9	2889.3	2929.3	2916.4	2878.9	2782.1	2787.2	2888.0
12.5°	2557.3	2399.7	2233.1	2017.4	1964.5	1994.2	1964.5	1942.5	1849.5	1857.3	1946.4
15°	1939.9	1810.8	1636.4	1463.4	1369.1	1378.1	1295.5	1237.3	1179.2	1109.5	1163.7
17.5°	1309.7	1230.9	1179.2	1127.5	1015.2	989.3	884.7	772.4	728.4	696.2	719.4
20°	927.4	884.7	864.1	861.5	796.9	764.6	662.6	592.8	570.9	564.4	578.6
22.5°	774.9	743.9	714.2	697.5	665.2	627.7	550.2	515.3	499.8	492.1	502.4
25°	674.2	651.0	620.0	591.5	578.6	538.6	483.0	457.2	446.9	439.1	444.3
27.5°	599.3	578.6	542.5	524.4	514.0	479.2	431.4	410.7	401.7	399.1	397.8
30°	539.9	520.5	486.9	466.3	448.2	417.2	388.8	368.1	359.1	356.5	353.9
32.5°	480.5	465.0	443.0	422.3	403.0	374.6	350.0	333.2	319.0	316.4	315.1
35°	405.6	390.1	378.4	377.1	359.1	331.9	313.9	291.9	280.3	276.4	277.7
37.5°	360.3	339.7	313.9	322.9	317.7	298.4	273.8	251.9	240.2	237.6	237.6
40°	331.9	310.0	280.3	264.8	280.3	276.4	237.6	215.7	204.1	202.8	200.2
42.5°	304.8	282.9	249.3	223.4	231.2	242.8	205.4	184.7	173.1	170.5	166.6
45°	285.4	262.2	224.7	195.0	179.5	204.1	175.7	149.8	143.4	138.2	135.6
47.5°	267.4	245.4	202.8	169.2	143.4	147.2	140.8	122.7	115.0	109.8	108.5
50°	251.9	228.6	183.4	144.7	118.8	108.5	113.7	96.9	90.4	85.2	82.7
52.5°	233.8	211.8	162.7	125.3	99.5	85.2	86.5	76.2	69.7	65.9	64.6
55°	219.6	197.6	145.9	109.8	87.8	69.7	62.0	59.4	55.5	53.0	51.7
57.5°	200.2	179.5	129.2	93.0	74.9	56.8	47.8	47.8	46.5	43.9	42.6
59°	188.6	170.5	118.8	84.0	68.5	49.1	42.6	43.9	42.6	40.0	38.7
60°	179.5	162.7	111.1	77.5	64.6	45.2	38.7	41.3	40.0	37.5	36.2
62.5°	158.9	147.2	95.6	64.6	56.8	36.2	32.3	34.9	34.9	33.6	32.3
65°	139.5	126.6	81.4	54.2	53.0	31.0	25.8	31.0	32.3	29.7	27.1
67.5°	121.4	108.5	71.0	43.9	49.1	24.5	19.4	25.8	34.9	27.1	24.5
70°	103.3	90.4	55.5	34.9	51.7	16.8	15.5	23.2	41.3	29.7	23.2
72.5°	80.1	69.7	38.7	25.8	55.5	11.6	11.6	19.4	46.5	32.3	22.0
75°	55.5	45.2	23.2	15.5	45.2	7.7	7.7	18.1	43.9	29.7	20.7
77.5°	32.3	24.5	7.7	1.3	23.2	0.0	1.3	12.9	31.0	18.1	9.0
80°	11.6	5.2	0.0	0.0	14.2	0.0	0.0	0.0	2.6	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°	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9
2.5°	7536.3	7710.7	7867.0	8103.3	8383.6	8706.5	8984.2	9282.6	9562.8	9679.1	9759.1
5°	5774.6	5990.3	6242.2	6589.6	7052.0	7621.6	8155.0	8758.2	9406.5	9730.7	10035.5
7.5°	4082.7	4302.2	4614.8	4984.2	5543.4	6221.5	6919.0	7752.0	8630.3	9143.1	9648.1
10°	2935.8	3205.7	3497.6	4002.6	4570.9	5214.1	5932.2	6862.1	7841.2	8409.4	9017.8
12.5°	1998.1	2305.5	2747.2	3312.9	3980.6	4610.9	5234.8	6122.1	7258.7	7821.8	8474.0
15°	1198.6	1369.1	1836.6	2491.4	3310.3	4095.6	4778.8	5668.7	6880.2	7569.9	8248.0
17.5°	738.8	817.6	1072.0	1609.3	2469.5	3462.7	4399.1	5515.0	6934.5	7774.0	8499.9
20°	589.0	620.0	701.3	950.6	1636.4	2765.3	3971.6	5484.0	7377.5	8410.7	9189.6
22.5°	511.5	541.2	595.4	691.0	1029.4	2070.4	3566.0	5512.4	8012.9	9365.2	10274.5
25°	450.8	476.6	528.3	607.0	754.3	1458.2	3132.1	5639.0	8840.8	10549.6	11515.7
27.5°	403.0	424.9	472.7	545.0	647.1	1017.8	2640.0	5792.7	9822.4	11761.1	12714.3
30°	359.1	378.4	421.1	488.2	561.8	782.7	2100.1	5897.3	10805.3	12714.3	13570.6
32.5°	321.6	335.8	374.6	431.4	488.2	623.8	1596.4	5880.5	11535.1	13507.3	14186.7
35°	282.9	297.1	330.6	379.7	424.9	515.3	1255.4	5566.7	12170.5	14330.0	14891.9
37.5°	240.2	258.3	290.6	334.5	365.5	453.3	1015.2	5188.3	12815.0	15270.3	15678.4
40°	204.1	222.2	250.6	298.4	317.7	430.1	780.1	4727.2	13539.6	16321.6	16541.2
42.5°	169.2	186.0	215.7	257.0	299.6	370.7	577.3	4200.2	14235.7	17220.6	17327.8
45°	136.9	153.7	184.7	226.0	320.3	307.4	446.9	3635.8	14797.6	17968.4	18003.3
47.5°	108.5	124.0	156.3	213.1	298.4	245.4	319.0	3192.8	15269.0	18552.2	18460.5
50°	84.0	96.9	130.4	244.1	260.9	202.8	241.5	3045.5	15691.3	18913.8	18676.2
52.5°	65.9	77.5	107.2	228.6	202.8	167.9	202.8	3183.7	16270.0	19213.5	18797.6
55°	53.0	64.6	84.0	130.4	138.2	142.1	173.1	3312.9	17268.4	19916.1	19514.4
57.5°	43.9	55.5	68.5	91.7	104.6	120.1	153.7	3327.1	18445.0	21083.7	20704.0
59°	40.0	50.4	62.0	81.4	91.7	109.8	144.7	3249.6	18859.6	21508.6	21318.7
60°	37.5	47.8	58.1	74.9	85.2	103.3	139.5	3176.0	18877.7	21493.1	21580.9
62.5°	32.3	42.6	51.7	63.3	72.3	87.8	125.3	2903.5	18113.1	20789.2	21423.4
65°	28.4	37.5	46.5	54.2	62.0	78.8	113.7	2406.2	16807.3	19653.9	20344.9
67.5°	25.8	32.3	42.6	47.8	55.5	69.7	100.7	1715.2	15176.0	18265.5	18713.6
70°	23.2	31.0	38.7	43.9	50.4	60.7	86.5	985.5	12815.0	16232.5	16551.5
72.5°	22.0	29.7	34.9	41.3	45.2	54.2	78.8	463.7	9383.3	13003.6	13836.6
75°	19.4	27.1	32.3	38.7	42.6	49.1	67.2	222.2	6240.9	9410.4	10357.1
77.5°	11.6	22.0	29.7	34.9	37.5	42.6	55.5	127.9	3983.2	6513.4	7672.0
80°	0.0	7.7	22.0	29.7	32.3	36.2	42.6	100.7	2131.1	3721.0	4466.3
82.5°	0.0	0.0	15.5	23.2	22.0	24.5	32.3	63.3	960.9	2432.0	2740.7
85°	0.0	0.0	5.2	18.1	15.5	11.6	22.0	22.0	210.5	1230.9	1535.7
87.5°	0.0	0.0	0.0	1.3	7.7	5.2	9.0	2.6	1.3	91.7	372.0
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: P324611

CATALOG NUMBER: GLEON-SA7C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9	8880.9
2.5°	10039.4	10135.0	10296.4	10372.6	10335.2	10176.3	9986.5	9792.7	9679.1	9724.3
5°	10656.8	11148.9	11433.0	11527.3	11369.7	11013.3	10547.0	9932.2	9713.9	9654.5
7.5°	10656.8	11582.8	12169.2	12272.5	11921.2	11222.5	10348.1	9388.5	9069.4	8953.2
10°	10282.2	11542.8	12360.4	12524.4	12033.6	10988.7	9817.3	8722.0	8343.6	8223.5
12.5°	9859.9	11217.3	12078.8	12304.8	11901.9	10756.2	9449.2	8271.2	7825.7	7721.0
15°	9600.3	10816.9	11529.9	11693.9	11523.4	10620.6	9361.3	8135.6	7611.3	7510.5
17.5°	9693.3	10507.0	10764.0	10859.6	10974.5	10572.8	9600.3	8432.7	7768.8	7673.2
20°	10043.3	10180.2	10047.2	10167.3	10477.3	10619.3	10169.9	9150.8	8353.9	8226.0
22.5°	10637.4	10011.0	9637.7	9685.5	10062.7	10773.0	11040.4	10176.3	9256.7	9096.6
25°	11329.7	10147.9	9410.4	9367.8	9755.3	10975.8	11836.0	11292.2	10324.9	10147.9
27.5°	12200.2	10455.3	9363.9	9321.3	9648.1	11165.7	12497.3	12395.2	11449.8	11147.6
30°	12871.8	10757.5	9502.1	9404.0	9755.3	11297.4	13028.1	13331.6	12346.2	12146.0
32.5°	13353.6	11114.0	9726.9	9584.8	10057.5	11524.7	13437.5	14189.2	13175.4	12871.8
35°	13720.4	11501.5	10089.8	9856.0	10473.4	11869.6	13821.1	15102.4	14057.5	13725.6
37.5°	14064.0	12045.2	10656.8	10377.8	11125.6	12425.0	14226.7	16138.2	15044.3	14647.8
40°	14543.1	12661.3	11531.2	11283.2	12222.2	13181.8	14733.0	17218.0	16166.6	15668.1
42.5°	15022.3	13322.6	12426.2	12493.4	13590.0	14101.4	15386.5	18359.7	17274.8	16742.7
45°	15460.2	14004.6	13701.0	14011.0	14859.6	15110.1	16036.2	19019.7	18159.5	17645.5
47.5°	15850.2	14857.0	14968.1	15793.4	16303.6	16023.3	16521.8	19589.3	18818.3	18364.9
50°	16303.6	15960.0	16638.1	17805.7	17965.8	16849.9	16963.5	20263.5	19588.0	19223.8
52.5°	16799.5	17122.4	18487.6	19517.0	19465.3	17747.5	17407.9	21019.1	20643.2	20301.0
55°	17362.6	18061.4	20116.3	21118.5	21074.6	18749.8	18144.0	21952.9	21965.8	21655.8
57.5°	18198.3	18869.9	21221.9	22414.0	22487.6	19907.0	19391.7	22999.1	23161.8	22955.2
59°	18797.6	19394.3	21659.7	22955.2	23254.8	20802.1	20303.6	23606.1	23498.9	23310.4
60°	19241.9	19727.5	21876.7	23238.0	23700.4	21409.2	20976.5	23962.6	23539.0	23310.4
62.5°	20341.0	20453.4	22268.0	23558.3	24213.2	22757.6	22869.9	24569.6	23261.3	22888.0
65°	20853.8	20911.9	22262.9	22984.9	23717.2	23807.6	24587.7	24587.7	22583.2	22009.7
67.5°	20639.4	20359.1	21158.6	21083.7	21814.7	23183.8	25233.5	23686.2	21286.5	20545.1
70°	18895.7	17817.3	17462.1	17494.4	18053.6	20165.4	23954.8	21033.3	18832.5	17965.8
72.5°	15722.3	13135.3	12258.3	13259.3	13405.3	15497.6	20414.6	15839.9	13888.3	13075.9
75°	12645.8	9259.3	7833.4	8889.9	9137.9	11341.3	15792.1	9865.1	8112.4	7479.5
77.5°	9084.9	6646.4	5620.9	5547.3	5867.6	7192.8	11205.7	4964.8	4140.8	3864.4
80°	5161.1	4374.6	4710.4	4444.3	4605.8	4497.3	5323.9	2177.6	1783.7	1667.4
82.5°	3115.3	2585.7	2800.1	2331.3	2950.0	2568.9	2051.0	697.5	605.7	576.0
85°	2026.5	1413.0	736.2	493.4	1016.5	1641.6	458.5	189.9	145.9	116.2
87.5°	698.7	360.3	36.2	15.5	108.5	306.1	16.8	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)