

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: P324617

Luminaire Tested: **GLEON-SA3D-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324617
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-SA3D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 12908 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

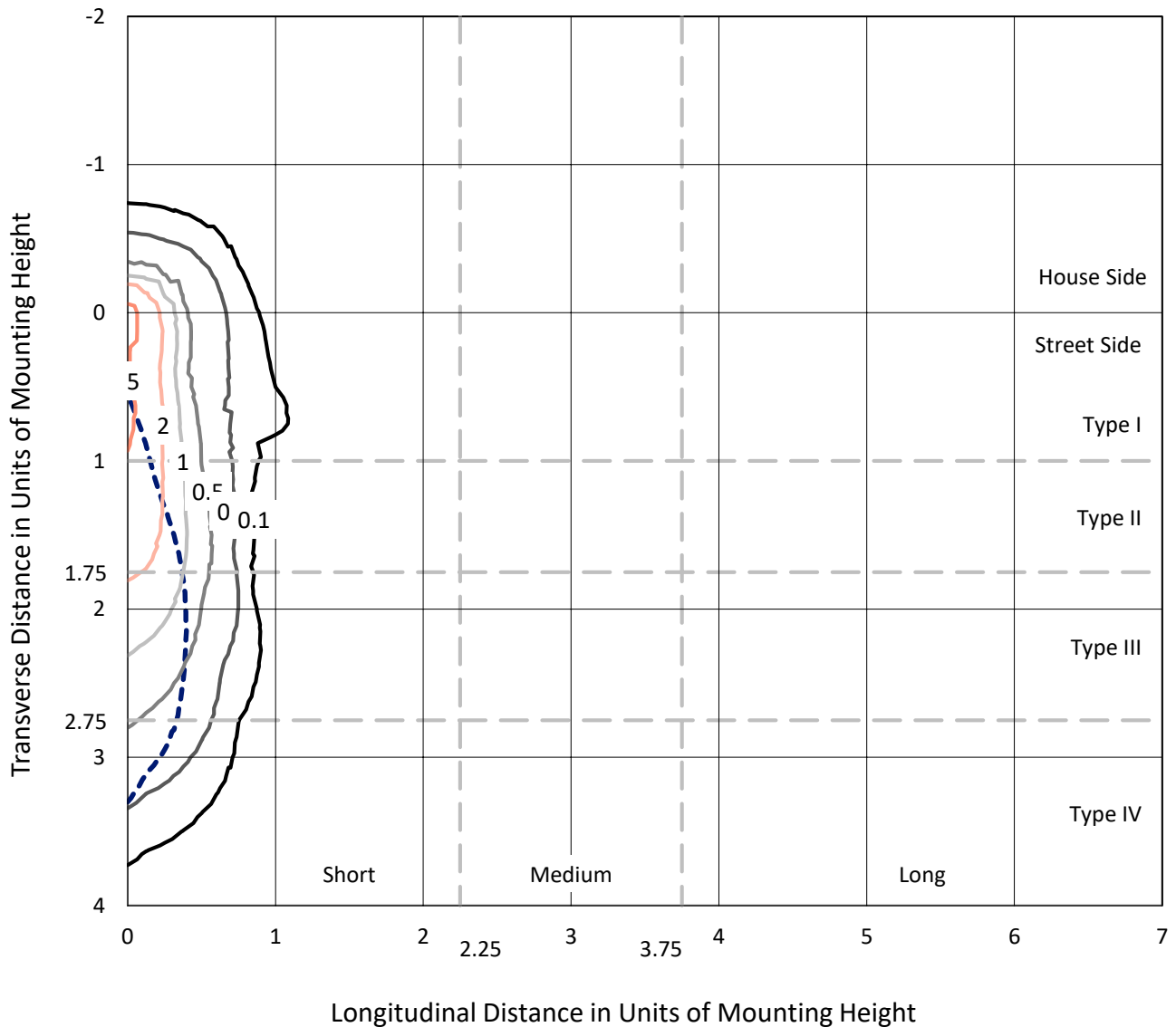
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

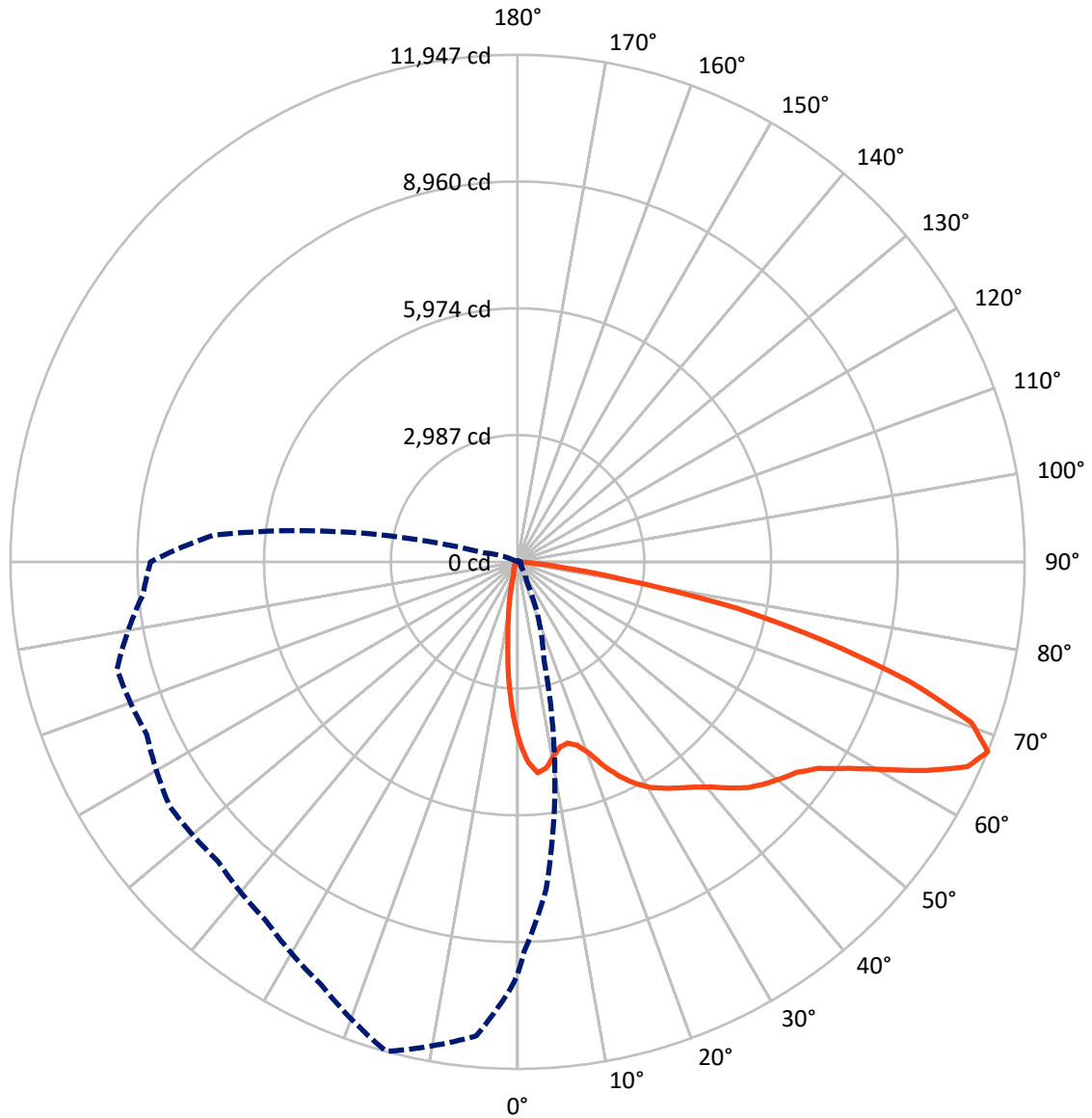
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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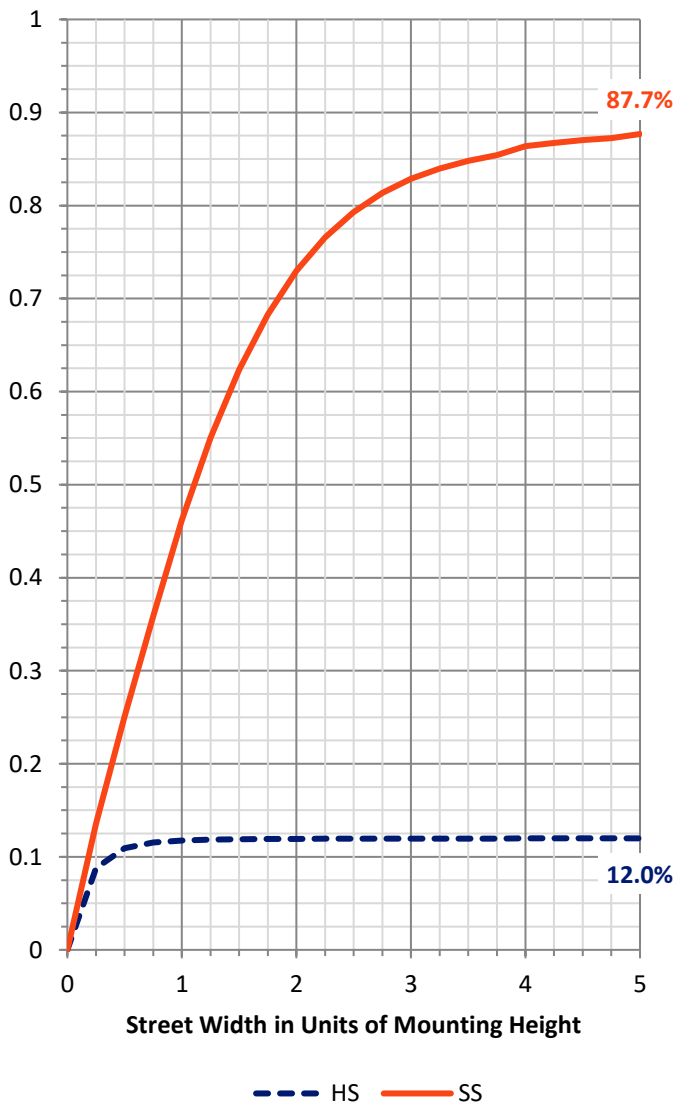
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.3	0.0	1562.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11345.7	0.0	11345.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	12908.0	0.0	12908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.7	2.5
10°-20°	642.3	5.0
20°-30°	912.1	7.1
30°-40°	1347.3	10.4
40°-50°	1943.1	15.1
50°-60°	2727.7	21.1
60°-70°	3179.7	24.6
70°-80°	1625.5	12.6
80°-90°	207.6	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°	12908.0	100.0
0°-180°	12908.0	100.0

Coefficient of Utilization

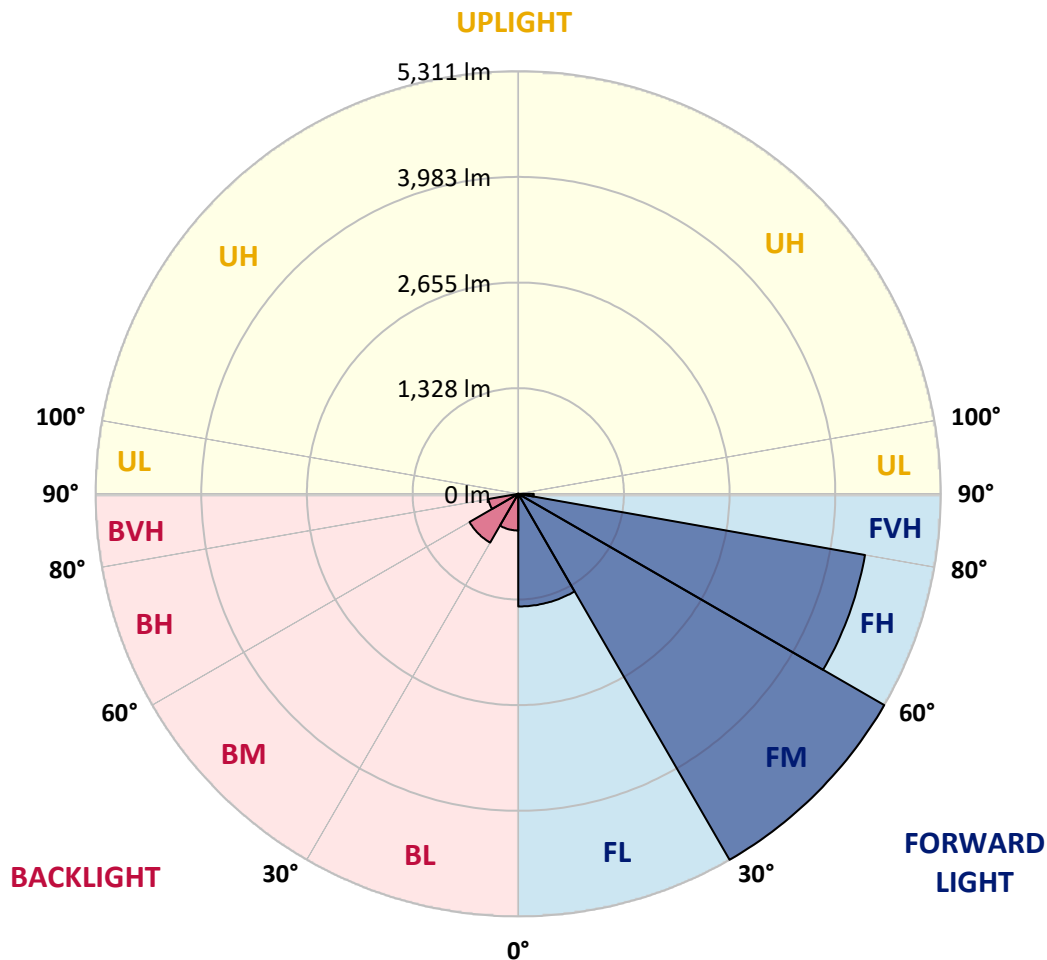


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.8	11.0			
FM (30°-60°)	5310.6	41.1			
FH (60°-80°)	4424.4	34.3			G2/5000
FVH (80°-90°)	195.0	1.5			G2/225
BL (0°-30°)	461.4	3.6	B1/500		
BM (30°-60°)	707.5	5.5	B1/1000		
BH (60°-80°)	380.8	2.9	B1/500		G1/500
BVH (80°-90°)	12.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8
2.5°	4604.1	4568.6	4529.5	4401.7	4283.0	4147.3	4036.6	3959.5	3862.9	3737.6	3705.8
5°	4571.1	4533.1	4410.2	4125.9	3877.0	3634.8	3401.2	3264.3	3094.3	2921.8	2879.0
7.5°	4239.0	4199.3	4021.9	3632.4	3297.3	2947.5	2644.2	2456.4	2264.4	2106.7	2022.9
10°	3893.5	3850.1	3650.7	3178.0	2765.3	2449.1	2226.5	2047.3	1865.7	1696.9	1562.4
12.5°	3655.6	3598.7	3382.3	2846.6	2487.0	2272.4	2064.5	1849.8	1604.0	1423.0	1275.0
15°	3555.9	3491.1	3262.4	2718.8	2388.6	2136.6	1865.7	1602.2	1314.1	1106.8	971.1
17.5°	3633.0	3548.6	3303.4	2710.2	2265.0	1922.0	1579.5	1270.1	957.6	747.9	651.3
20°	3894.7	3784.0	3472.8	2707.8	2115.2	1667.0	1232.8	883.0	631.1	507.6	456.8
22.5°	4306.9	4160.7	3716.2	2727.3	1960.5	1399.1	890.4	599.9	473.9	409.7	379.7
25°	4804.7	4635.3	4066.6	2796.4	1824.8	1138.6	647.0	473.9	399.9	352.8	327.8
27.5°	5278.0	5140.4	4509.3	2896.1	1719.6	928.3	525.3	401.8	341.8	310.6	290.5
30°	5750.7	5577.6	4963.6	3014.8	1593.0	785.8	461.7	366.3	306.4	273.3	260.5
32.5°	6094.3	5950.6	5319.5	3100.4	1457.8	692.8	412.8	335.1	286.2	252.6	233.6
35°	6498.5	6335.9	5624.7	3119.3	1371.0	634.1	371.2	301.5	248.3	218.3	198.1
37.5°	6935.2	6732.7	5976.9	3077.7	1303.1	605.4	340.0	286.2	231.8	201.2	179.8
40°	7418.3	7189.5	6315.1	3017.8	1236.5	595.6	316.2	274.6	218.9	187.7	165.7
42.5°	7927.0	7657.4	6608.0	2954.8	1194.3	562.0	313.7	263.0	209.1	175.5	153.5
45°	8354.5	8081.1	6908.9	2934.0	1164.3	525.3	324.1	255.0	202.4	165.7	144.3
47.5°	8695.1	8436.4	7217.1	2980.5	1147.2	491.7	295.4	265.4	198.7	157.2	136.4
50°	9101.7	8808.8	7651.2	3119.3	1122.1	458.0	267.2	303.9	198.7	151.7	129.6
52.5°	9611.7	9321.9	8135.6	3334.6	1072.0	411.5	240.3	304.5	200.6	144.3	121.1
55°	10253.2	10042.9	8827.2	3570.6	991.9	343.1	207.9	261.7	193.2	130.9	113.1
57.5°	10868.4	10696.6	9457.6	3732.1	884.9	267.8	181.0	211.0	176.7	115.0	100.9
59°	11036.6	10848.8	9688.8	3739.4	804.7	233.6	167.6	174.3	173.1	107.6	93.6
60°	11036.6	10837.2	9755.5	3700.3	746.7	214.6	159.0	155.3	180.4	102.7	89.3
62.5°	10836.6	10556.5	9539.0	3435.5	609.1	182.8	138.8	128.4	162.1	92.3	78.9
65°	10420.8	10012.9	8801.5	2956.7	543.0	167.6	119.9	105.2	112.5	81.3	69.1
67.5°	9727.3	9174.5	7738.1	2388.6	516.7	163.3	103.3	89.3	85.0	69.7	60.5
70°	8506.1	7892.8	6447.2	1878.0	494.1	161.4	86.8	75.2	68.5	58.7	51.4
72.5°	6190.9	5551.3	4577.2	1468.2	480.6	165.1	69.7	63.0	56.3	45.9	39.7
75°	3541.3	3122.4	2572.6	969.9	409.7	157.8	53.8	52.6	40.4	33.0	27.5
77.5°	1829.6	1774.0	1541.6	372.4	196.3	69.1	35.5	30.6	23.8	20.2	16.5
80°	789.5	780.9	675.7	107.6	52.0	38.5	20.2	12.8	11.0	8.6	6.7
82.5°	272.7	272.7	240.3	36.1	23.2	19.0	2.4	0.0	0.0	0.0	0.0
85°	55.0	61.8	43.4	0.0	7.9	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°	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8
2.5°	3667.2	3593.2	3588.4	3541.9	3483.8	3457.5	3442.2	3469.1	3502.1	3505.8	3555.3
5°	2846.6	2768.9	2801.3	2718.8	2735.3	2718.8	2691.9	2696.8	2711.4	2665.6	2722.5
7.5°	1999.0	1940.3	1977.6	1955.6	1985.0	1996.6	1980.1	1955.6	1883.5	1874.9	1924.4
10°	1506.8	1440.1	1400.4	1358.8	1368.0	1386.9	1380.8	1363.1	1317.2	1319.6	1367.3
12.5°	1210.8	1136.2	1057.3	955.2	930.1	944.2	930.1	919.7	875.7	879.4	921.5
15°	918.5	857.3	774.8	692.8	648.2	652.5	613.3	585.8	558.3	525.3	551.0
17.5°	620.1	582.8	558.3	533.9	480.6	468.4	418.9	365.7	344.9	329.6	340.6
20°	439.1	418.9	409.1	407.9	377.3	362.0	313.7	280.7	270.3	267.2	274.0
22.5°	366.9	352.2	338.2	330.2	314.9	297.2	260.5	244.0	236.7	233.0	237.9
25°	319.2	308.2	293.5	280.1	274.0	255.0	228.7	216.5	211.6	207.9	210.4
27.5°	283.7	274.0	256.8	248.3	243.4	226.9	204.2	194.5	190.2	189.0	188.3
30°	255.6	246.4	230.5	220.8	212.2	197.5	184.1	174.3	170.0	168.8	167.6
32.5°	227.5	220.1	209.7	200.0	190.8	177.3	165.7	157.8	151.0	149.8	149.2
35°	192.0	184.7	179.2	178.6	170.0	157.2	148.6	138.2	132.7	130.9	131.5
37.5°	170.6	160.8	148.6	152.9	150.4	141.3	129.6	119.2	113.7	112.5	112.5
40°	157.2	146.8	132.7	125.4	132.7	130.9	112.5	102.1	96.6	96.0	94.8
42.5°	144.3	133.9	118.0	105.8	109.5	115.0	97.2	87.4	81.9	80.7	78.9
45°	135.1	124.1	106.4	92.3	85.0	96.6	83.2	70.9	67.9	65.4	64.2
47.5°	126.6	116.2	96.0	80.1	67.9	69.7	66.7	58.1	54.4	52.0	51.4
50°	119.2	108.2	86.8	68.5	56.3	51.4	53.8	45.9	42.8	40.4	39.1
52.5°	110.7	100.3	77.1	59.3	47.1	40.4	41.0	36.1	33.0	31.2	30.6
55°	104.0	93.6	69.1	52.0	41.6	33.0	29.4	28.1	26.3	25.1	24.5
57.5°	94.8	85.0	61.2	44.0	35.5	26.9	22.6	22.6	22.0	20.8	20.2
59°	89.3	80.7	56.3	39.7	32.4	23.2	20.2	20.8	20.2	19.0	18.3
60°	85.0	77.1	52.6	36.7	30.6	21.4	18.3	19.6	19.0	17.7	17.1
62.5°	75.2	69.7	45.3	30.6	26.9	17.1	15.3	16.5	16.5	15.9	15.3
65°	66.0	59.9	38.5	25.7	25.1	14.7	12.2	14.7	15.3	14.1	12.8
67.5°	57.5	51.4	33.6	20.8	23.2	11.6	9.2	12.2	16.5	12.8	11.6
70°	48.9	42.8	26.3	16.5	24.5	7.9	7.3	11.0	19.6	14.1	11.0
72.5°	37.9	33.0	18.3	12.2	26.3	5.5	5.5	9.2	22.0	15.3	10.4
75°	26.3	21.4	11.0	7.3	21.4	3.7	3.7	8.6	20.8	14.1	9.8
77.5°	15.3	11.6	3.7	0.6	11.0	0.0	0.6	6.1	14.7	8.6	4.3
80°	5.5	2.4	0.0	0.0	6.7	0.0	0.0	0.0	1.2	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°	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8
2.5°	3568.2	3650.7	3724.7	3836.6	3969.3	4122.2	4253.7	4394.9	4527.6	4582.7	4620.6
5°	2734.1	2836.2	2955.4	3119.9	3338.9	3608.5	3861.1	4146.7	4453.6	4607.1	4751.4
7.5°	1933.0	2036.9	2184.9	2359.8	2624.6	2945.7	3275.9	3670.3	4086.1	4328.9	4568.0
10°	1390.0	1517.8	1656.0	1895.1	2164.1	2468.7	2808.7	3249.0	3712.5	3981.6	4269.6
12.5°	946.0	1091.5	1300.7	1568.5	1884.7	2183.1	2478.5	2898.6	3436.7	3703.3	4012.1
15°	567.5	648.2	869.6	1179.6	1567.3	1939.1	2262.6	2683.9	3257.5	3584.1	3905.1
17.5°	349.8	387.1	507.6	761.9	1169.2	1639.5	2082.8	2611.2	3283.2	3680.7	4024.4
20°	278.8	293.5	332.1	450.1	774.8	1309.2	1880.4	2596.5	3493.0	3982.2	4350.9
22.5°	242.2	256.2	281.9	327.2	487.4	980.3	1688.4	2609.9	3793.8	4434.1	4864.6
25°	213.4	225.6	250.1	287.4	357.1	690.4	1482.9	2669.9	4185.8	4994.8	5452.2
27.5°	190.8	201.2	223.8	258.1	306.4	481.9	1249.9	2742.6	4650.5	5568.4	6019.7
30°	170.0	179.2	199.4	231.2	266.0	370.6	994.3	2792.2	5115.9	6019.7	6425.2
32.5°	152.3	159.0	177.3	204.2	231.2	295.4	755.8	2784.2	5461.4	6395.2	6716.8
35°	133.9	140.6	156.5	179.8	201.2	244.0	594.4	2635.6	5762.3	6784.7	7050.7
37.5°	113.7	122.3	137.6	158.4	173.1	214.6	480.6	2456.4	6067.4	7229.9	7423.1
40°	96.6	105.2	118.6	141.3	150.4	203.6	369.4	2238.1	6410.5	7727.7	7831.6
42.5°	80.1	88.1	102.1	121.7	141.9	175.5	273.3	1988.6	6740.1	8153.3	8204.0
45°	64.8	72.8	87.4	107.0	151.7	145.5	211.6	1721.4	7006.1	8507.4	8523.9
47.5°	51.4	58.7	74.0	100.9	141.3	116.2	151.0	1511.7	7229.3	8783.8	8740.3
50°	39.7	45.9	61.8	115.6	123.5	96.0	114.4	1441.9	7429.3	8955.0	8842.5
52.5°	31.2	36.7	50.8	108.2	96.0	79.5	96.0	1507.4	7703.2	9096.9	8899.9
55°	25.1	30.6	39.7	61.8	65.4	67.3	81.9	1568.5	8175.9	9429.5	9239.3
57.5°	20.8	26.3	32.4	43.4	49.5	56.9	72.8	1575.3	8733.0	9982.3	9802.5
59°	19.0	23.8	29.4	38.5	43.4	52.0	68.5	1538.6	8929.3	10183.5	10093.6
60°	17.7	22.6	27.5	35.5	40.4	48.9	66.0	1503.7	8937.9	10176.2	10217.8
62.5°	15.3	20.2	24.5	30.0	34.2	41.6	59.3	1374.7	8575.8	9842.9	10143.2
65°	13.5	17.7	22.0	25.7	29.4	37.3	53.8	1139.2	7957.6	9305.4	9632.5
67.5°	12.2	15.3	20.2	22.6	26.3	33.0	47.7	812.1	7185.3	8648.0	8860.2
70°	11.0	14.7	18.3	20.8	23.8	28.7	41.0	466.6	6067.4	7685.5	7836.5
72.5°	10.4	14.1	16.5	19.6	21.4	25.7	37.3	219.5	4442.6	6156.7	6551.1
75°	9.2	12.8	15.3	18.3	20.2	23.2	31.8	105.2	2954.8	4455.5	4903.7
77.5°	5.5	10.4	14.1	16.5	17.7	20.2	26.3	60.5	1885.9	3083.9	3632.4
80°	0.0	3.7	10.4	14.1	15.3	17.1	20.2	47.7	1009.0	1761.8	2114.6
82.5°	0.0	0.0	7.3	11.0	10.4	11.6	15.3	30.0	455.0	1151.5	1297.6
85°	0.0	0.0	2.4	8.6	7.3	5.5	10.4	10.4	99.7	582.8	727.1
87.5°	0.0	0.0	0.0	0.6	3.7	2.4	4.3	1.2	0.6	43.4	176.1
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: P324617

CATALOG NUMBER: GLEON-SA3D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8
2.5°	4753.3	4798.5	4875.0	4911.1	4893.3	4818.1	4728.2	4636.5	4582.7	4604.1
5°	5045.6	5278.6	5413.1	5457.7	5383.1	5214.4	4993.6	4702.5	4599.2	4571.1
7.5°	5045.6	5484.0	5761.7	5810.6	5644.3	5313.4	4899.4	4445.1	4294.0	4239.0
10°	4868.2	5465.1	5852.2	5929.8	5697.5	5202.7	4648.1	4129.5	3950.4	3893.5
12.5°	4668.3	5311.0	5718.9	5825.9	5635.1	5092.7	4473.8	3916.1	3705.2	3655.6
15°	4545.4	5121.4	5459.0	5536.6	5455.9	5028.5	4432.2	3851.9	3603.6	3555.9
17.5°	4589.4	4974.7	5096.3	5141.6	5196.0	5005.8	4545.4	3992.6	3678.2	3633.0
20°	4755.1	4819.9	4757.0	4813.8	4960.6	5027.9	4815.0	4332.6	3955.3	3894.7
22.5°	5036.4	4739.8	4563.1	4585.7	4764.3	5100.6	5227.2	4818.1	4382.7	4306.9
25°	5364.2	4804.7	4455.5	4435.3	4618.8	5196.6	5603.9	5346.5	4888.4	4804.7
27.5°	5776.3	4950.2	4433.5	4413.3	4568.0	5286.5	5917.0	5868.7	5421.1	5278.0
30°	6094.3	5093.3	4498.9	4452.4	4618.8	5348.9	6168.3	6312.0	5845.4	5750.7
32.5°	6322.4	5262.1	4605.3	4538.0	4761.8	5456.5	6362.2	6718.1	6238.0	6094.3
35°	6496.1	5445.5	4777.1	4666.4	4958.8	5619.8	6543.8	7150.4	6655.7	6498.5
37.5°	6658.8	5703.0	5045.6	4913.5	5267.6	5882.7	6735.8	7640.8	7122.9	6935.2
40°	6885.6	5994.7	5459.6	5342.2	5786.7	6241.1	6975.5	8152.1	7654.3	7418.3
42.5°	7112.5	6307.7	5883.4	5915.2	6434.3	6676.5	7284.9	8692.6	8179.0	7927.0
45°	7319.8	6630.6	6486.9	6633.7	7035.4	7154.1	7592.5	9005.1	8597.9	8354.5
47.5°	7504.5	7034.2	7086.8	7477.6	7719.1	7586.4	7822.5	9274.8	8909.7	8695.1
50°	7719.1	7556.5	7877.5	8430.3	8506.1	7977.8	8031.6	9594.0	9274.2	9101.7
52.5°	7953.9	8106.8	8753.2	9240.6	9216.1	8402.8	8242.0	9951.7	9773.8	9611.7
55°	8220.6	8551.4	9524.3	9998.8	9978.0	8877.3	8590.5	10393.9	10400.0	10253.2
57.5°	8616.2	8934.2	10047.8	10612.2	10647.0	9425.2	9181.2	10889.2	10966.2	10868.4
59°	8899.9	9182.5	10255.1	10868.4	11010.3	9849.0	9613.0	11176.6	11125.9	11036.6
60°	9110.3	9340.2	10357.8	11002.3	11221.2	10136.4	9931.6	11345.4	11144.8	11036.6
62.5°	9630.7	9683.9	10543.1	11154.0	11464.0	10774.8	10828.0	11632.8	11013.3	10836.6
65°	9873.5	9901.0	10540.6	10882.5	11229.2	11272.0	11641.4	11641.4	10692.3	10420.8
67.5°	9772.0	9639.3	10017.8	9982.3	10328.4	10976.6	11947.1	11214.5	10078.3	9727.3
70°	8946.4	8435.8	8267.6	8282.9	8547.7	9547.5	11341.7	9958.5	8916.5	8506.1
72.5°	7443.9	6219.1	5803.9	6277.8	6346.9	7337.5	9665.6	7499.6	6575.6	6190.9
75°	5987.3	4383.9	3708.8	4209.0	4326.4	5369.7	7477.0	4670.7	3840.9	3541.3
77.5°	4301.4	3146.8	2661.3	2626.4	2778.1	3405.5	5305.5	2350.7	1960.5	1829.6
80°	2443.6	2071.2	2230.2	2104.2	2180.7	2129.3	2520.7	1031.0	844.5	789.5
82.5°	1475.0	1224.2	1325.8	1103.8	1396.7	1216.3	971.1	330.2	286.8	272.7
85°	959.5	669.0	348.6	233.6	481.3	777.2	217.1	89.9	69.1	55.0
87.5°	330.8	170.6	17.1	7.3	51.4	144.9	7.9	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)