

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: P324286

Luminaire Tested: **GLEON-SA2C-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324286
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-SA2C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 7887 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

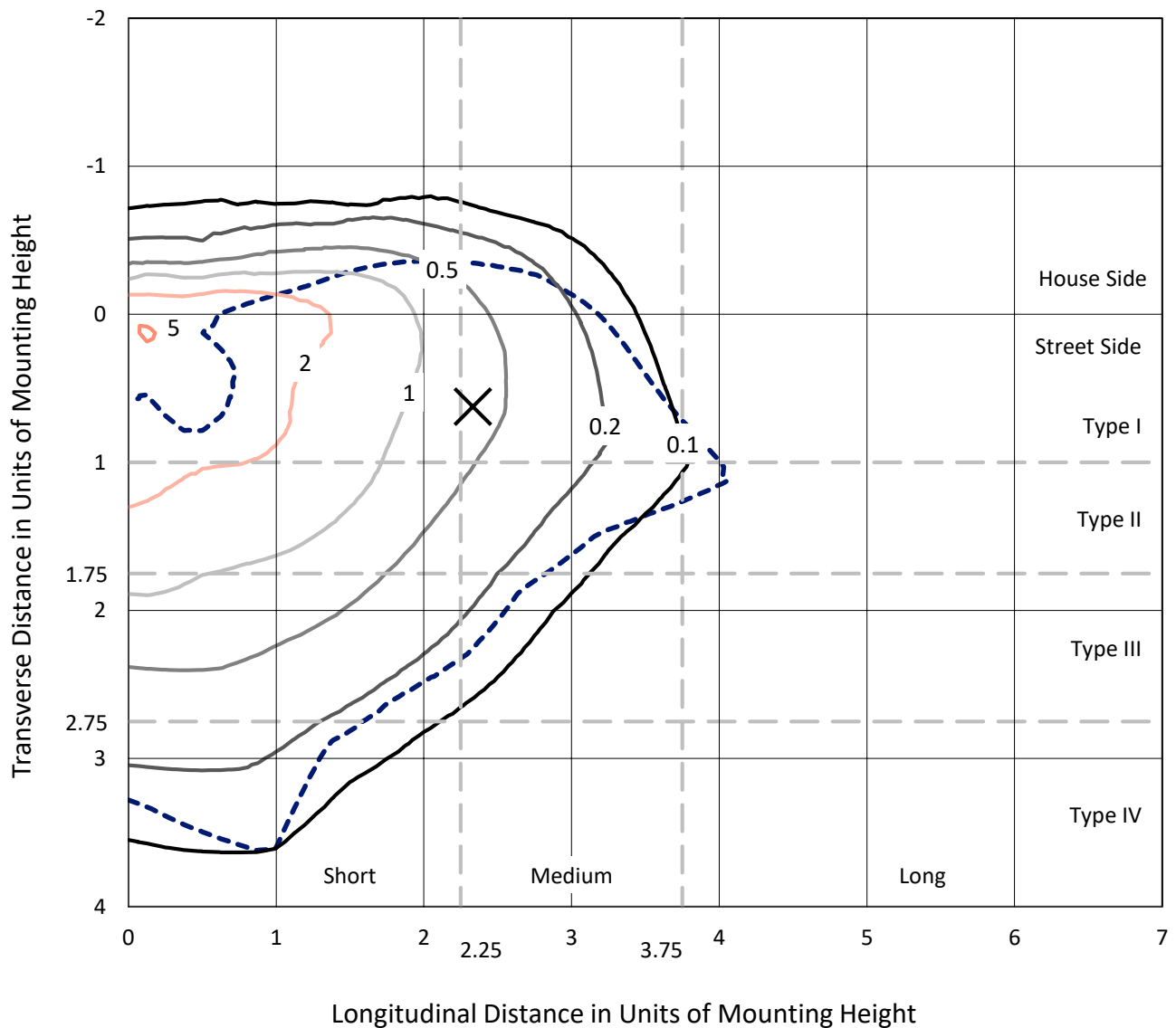
Input Watts (W): 113
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324286
 CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

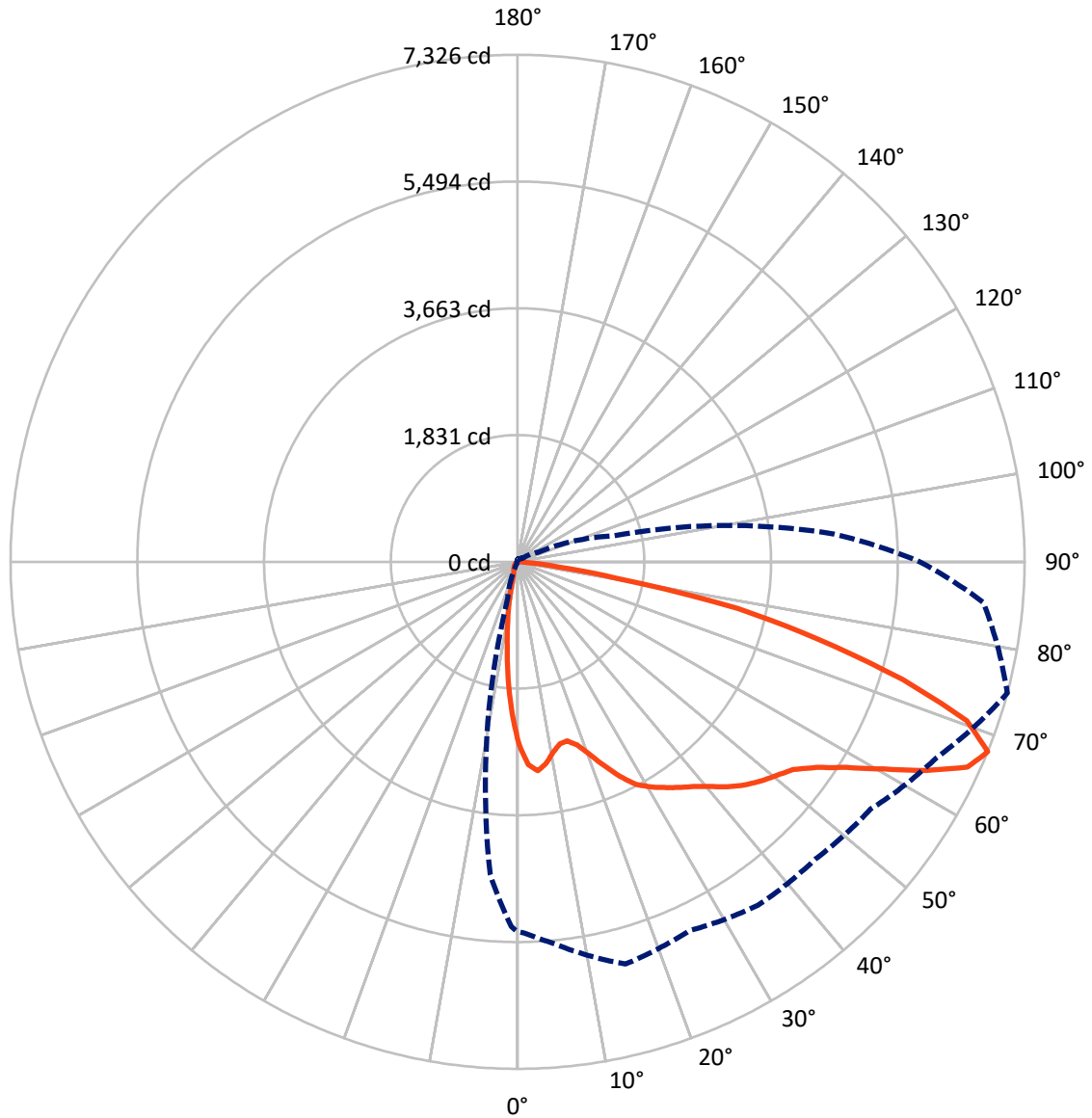
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P324286
CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P324286
 CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

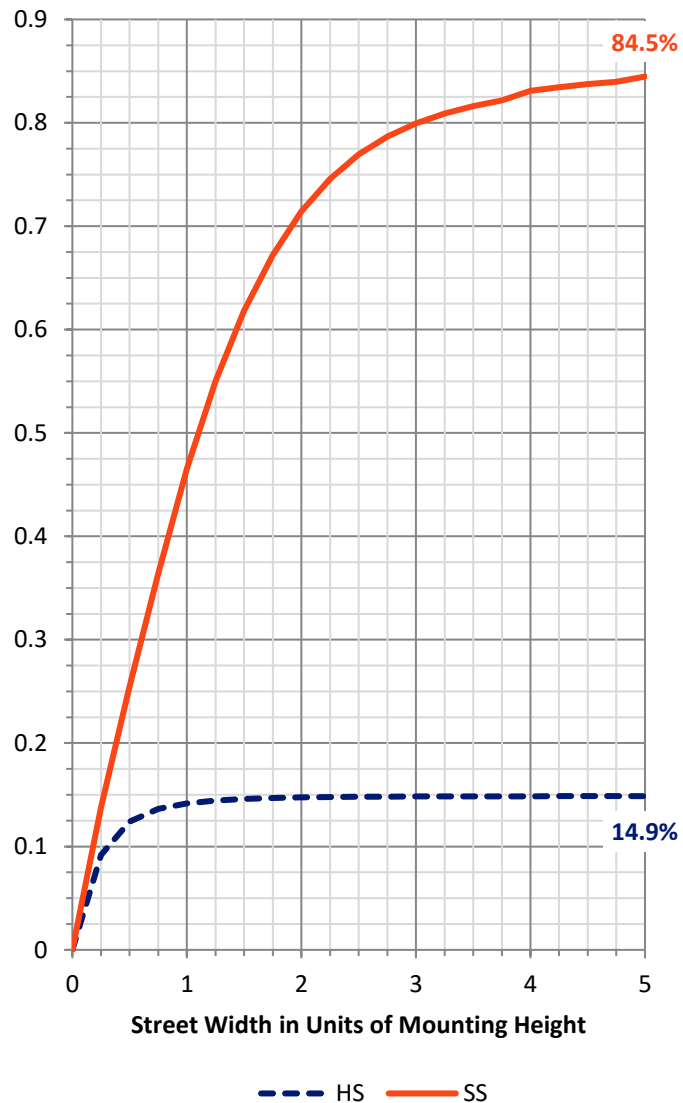
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1183.5	0.0	1183.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6703.5	0.0	6703.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	7887.0	0.0	7887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	2.5
10°-20°	395.2	5.0
20°-30°	559.1	7.1
30°-40°	822.0	10.4
40°-50°	1181.5	15.0
50°-60°	1663.3	21.1
60°-70°	1942.5	24.6
70°-80°	991.0	12.6
80°-90°	131.6	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°	7887.0	100.0
0°-180°	7887.0	100.0

Coefficient of Utilization

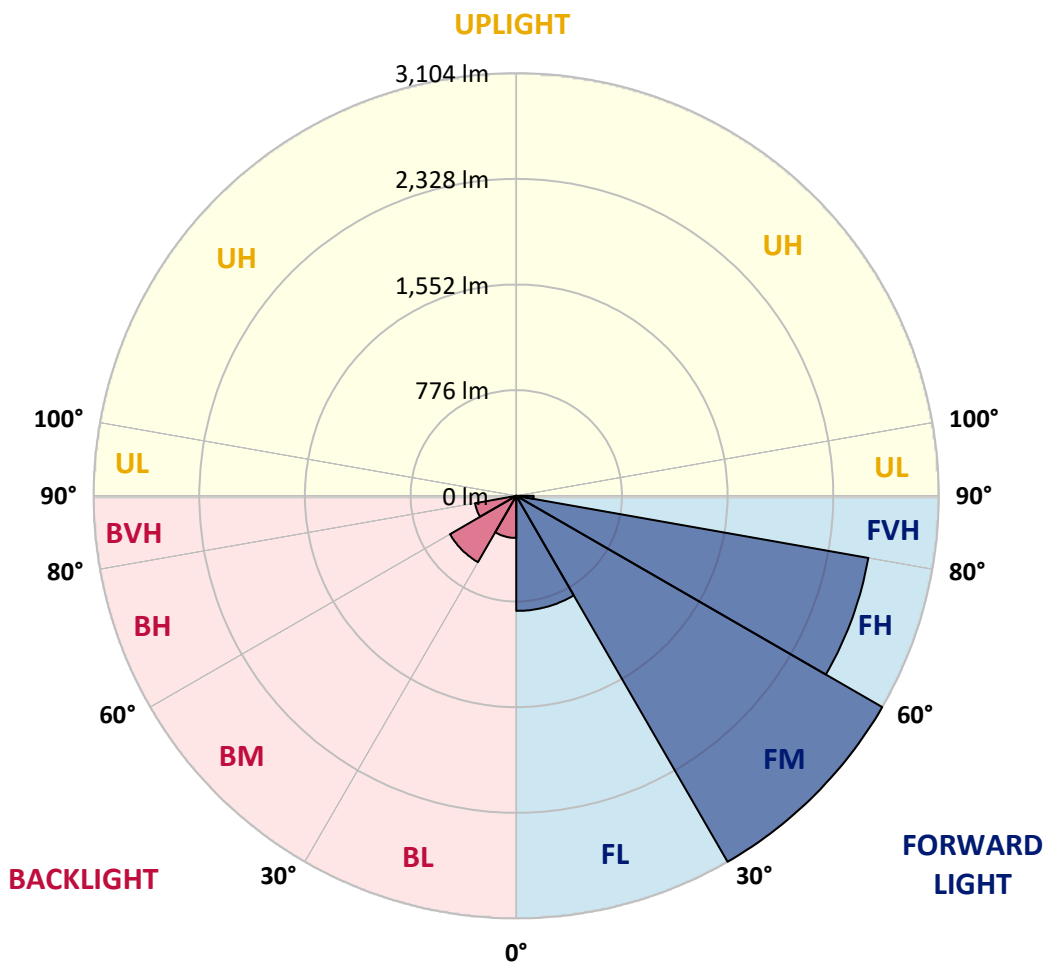


REPORT NUMBER: P324286
 CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.5	10.7			
FM (30°-60°)	3104.2	39.4			
FH (60°-80°)	2626.1	33.3			G2/5000
FVH (80°-90°)	127.7	1.6			G2/225
BL (0°-30°)	309.5	3.9	B1/500		
BM (30°-60°)	562.6	7.1	B1/1000		
BH (60°-80°)	307.4	3.9	B1/500		G1/500
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





REPORT NUMBER: P324286

CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2868.3	2872.7	2895.9	2949.7	3008.4	3012.8	3052.4	3011.7	2997.9	2932.1	2864.1
5°	2889.9	2907.1	2986.7	3144.7	3281.8	3325.9	3357.3	3277.4	3193.3	3032.6	2861.2
7.5°	2715.4	2744.2	2869.4	3166.0	3411.1	3519.5	3540.0	3414.9	3209.0	2944.5	2686.7
10°	2492.0	2524.9	2675.8	3040.5	3377.1	3562.8	3591.2	3427.2	3131.3	2801.8	2498.0
12.5°	2311.2	2349.7	2504.0	2899.3	3260.2	3465.7	3521.7	3385.7	3064.0	2700.5	2369.1
15°	2227.9	2272.0	2434.1	2808.1	3130.5	3292.3	3338.6	3280.0	3026.7	2684.4	2339.2
17.5°	2275.7	2323.5	2490.9	2815.9	3008.7	3077.9	3115.2	3139.1	3026.7	2781.2	2426.6
20°	2471.8	2523.4	2700.5	2895.5	2907.9	2882.1	2922.1	3006.1	3061.8	2965.0	2636.6
22.5°	2743.1	2803.6	3003.5	3031.9	2858.5	2761.0	2766.3	2898.1	3125.7	3198.2	2928.0
25°	3073.7	3147.7	3351.0	3235.1	2879.1	2688.9	2687.1	2809.2	3188.1	3431.7	3252.7
27.5°	3402.2	3483.6	3662.2	3483.2	2963.9	2675.8	2672.1	2782.3	3249.0	3639.4	3607.3
30°	3677.5	3756.7	3910.6	3662.9	3055.4	2706.5	2688.5	2811.1	3285.2	3774.3	3865.8
32.5°	3901.7	3965.2	4089.6	3786.6	3153.3	2765.9	2727.0	2888.1	3346.9	3888.2	4103.4
35°	4148.3	4215.1	4264.8	3904.3	3263.2	2851.4	2795.8	3010.2	3441.8	4004.1	4363.8
37.5°	4429.6	4496.1	4490.1	4011.9	3402.5	2993.0	2957.5	3203.8	3589.3	4118.8	4654.5
40°	4705.0	4773.0	4724.4	4129.6	3566.2	3226.6	3200.4	3494.4	3787.0	4265.6	4995.3
42.5°	4962.8	5036.4	4932.5	4240.9	3761.2	3521.0	3565.8	3868.8	4034.3	4446.4	5288.9
45°	5170.5	5245.6	5107.0	4349.3	3966.7	3878.1	4013.0	4283.5	4331.7	4599.2	5487.3
47.5°	5321.4	5392.4	5228.0	4457.6	4229.7	4314.9	4549.9	4718.4	4600.3	4731.9	5628.2
50°	5417.8	5473.1	5263.5	4593.2	4574.9	4824.5	5109.2	5191.4	4853.3	4851.4	5799.3
52.5°	5479.1	5504.1	5289.7	4734.8	4935.1	5379.3	5656.9	5682.7	5113.7	4982.9	6029.8
55°	5690.2	5710.4	5475.0	4906.3	5232.9	5865.4	6152.3	6128.4	5408.5	5240.3	6301.8
57.5°	6050.3	6071.6	5857.9	5152.9	5473.9	6165.8	6511.4	6554.4	5754.1	5602.0	6593.2
60°	6231.2	6270.8	6194.6	5465.3	5707.4	6357.8	6756.1	6893.2	6186.0	6078.7	6875.7
62.5°	6067.2	6124.7	6235.3	5811.6	5939.4	6463.6	6832.3	7014.7	6628.3	6634.3	7049.8
65°	5739.9	5785.8	5973.4	6001.4	6073.9	6450.5	6644.0	6845.0	6899.2	7144.7	7040.4
67.5°	5344.6	5361.8	5520.9	6016.4	5878.9	6057.4	6078.4	6227.1	6685.1	7325.5	6757.6
70°	4775.6	4784.9	4923.9	5516.1	5052.0	5091.3	5060.3	5090.5	5747.3	6885.0	6043.6
72.5°	3843.4	3866.9	4064.6	4580.9	3680.5	3567.3	3810.9	3797.4	4426.2	5816.8	4488.6
75°	2829.8	2870.5	3169.0	3689.8	2583.2	2336.6	2514.4	2561.9	3146.6	4499.5	2807.0
77.5°	1981.3	2011.6	2300.7	2712.5	1869.6	1670.8	1606.6	1663.0	2076.9	3254.9	1414.1
80°	1141.4	1152.6	1337.2	1566.2	1259.8	1441.4	1305.8	1344.6	1244.5	1448.1	608.2
82.5°	746.9	748.7	820.8	932.2	784.6	911.6	674.8	862.7	765.5	581.7	198.0
85°	403.5	405.7	476.0	661.7	444.2	251.1	147.6	303.0	473.4	133.4	54.2
87.5°	44.5	40.7	143.5	240.6	123.3	22.8	7.8	34.0	75.8	8.6	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: P324286

CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2829.4	2798.4	2721.1	2639.2	2573.5	2511.8	2449.8	2374.0	2315.3	2303.3	2283.9
5°	2768.9	2670.6	2508.5	2345.6	2214.4	2048.9	1943.9	1862.1	1782.2	1777.3	1761.2
7.5°	2557.4	2428.1	2199.9	1974.6	1790.0	1632.3	1473.2	1366.7	1283.0	1253.5	1235.9
10°	2354.2	2208.8	1923.8	1666.7	1501.9	1362.6	1250.5	1139.2	1038.3	968.8	937.4
12.5°	2212.2	2051.5	1737.3	1515.8	1397.7	1265.4	1128.7	989.7	873.5	789.8	738.6
15°	2157.3	1985.8	1674.9	1456.0	1310.3	1142.9	968.0	809.3	680.4	604.5	558.6
17.5°	2222.6	2023.1	1670.1	1383.1	1179.5	971.4	778.2	590.7	469.3	411.7	382.2
20°	2388.5	2141.9	1668.2	1293.8	1024.1	768.2	527.2	388.6	315.0	282.8	269.0
22.5°	2623.2	2293.6	1683.1	1205.7	862.3	548.8	363.9	285.4	247.7	230.5	222.7
25°	2925.0	2506.6	1725.4	1125.7	710.2	409.5	283.6	239.1	212.6	199.1	193.5
27.5°	3246.7	2751.7	1791.1	1056.2	586.6	326.5	242.9	204.7	185.7	176.3	171.1
30°	3512.0	3035.6	1857.6	978.9	496.9	284.7	222.3	186.8	164.8	158.8	153.9
32.5°	3744.0	3250.5	1904.7	909.0	438.3	252.9	201.0	167.0	152.1	140.5	135.2
35°	3984.2	3429.4	1903.2	860.1	397.9	229.0	183.1	149.4	131.5	118.1	114.0
37.5°	4244.3	3631.6	1870.7	818.2	380.3	210.0	173.0	140.1	122.2	108.7	103.5
40°	4548.8	3843.8	1837.4	779.0	375.5	194.7	165.9	132.6	113.6	100.5	95.3
42.5°	4845.4	4035.1	1808.3	749.8	354.6	194.3	159.5	127.0	106.9	94.2	88.2
45°	5082.7	4213.3	1802.7	732.3	332.5	201.0	156.2	123.3	101.6	88.9	83.3
47.5°	5280.0	4406.8	1838.6	720.0	311.6	183.4	164.4	120.7	96.8	84.4	78.1
50°	5514.6	4644.4	1923.0	699.8	289.6	165.1	188.3	121.4	92.7	80.0	73.2
52.5°	5841.9	4973.2	2047.0	665.8	259.3	148.3	185.3	122.2	88.2	75.1	68.4
55°	6208.8	5383.8	2180.4	609.4	217.1	126.3	158.8	116.9	79.6	69.9	63.5
57.5°	6594.3	5756.3	2259.6	542.1	172.6	109.1	127.0	106.5	70.2	62.8	58.7
60°	6654.9	5897.9	2223.4	459.5	137.1	94.9	94.2	108.3	62.8	55.3	52.3
62.5°	6504.3	5720.1	2048.2	385.9	114.7	83.3	77.3	94.5	56.8	49.3	46.3
65°	6214.7	5239.2	1764.2	347.8	106.5	71.4	64.3	66.5	49.7	43.0	40.4
67.5°	5812.0	4597.4	1448.5	326.2	105.4	61.3	54.9	50.4	43.0	37.4	35.1
70°	4988.5	3829.9	1155.6	314.2	102.4	51.6	46.3	41.1	35.9	31.8	29.9
72.5°	3671.5	2714.0	898.9	301.1	103.1	41.1	40.4	34.0	28.8	24.7	23.9
75°	2121.4	1550.5	589.6	244.0	98.3	31.8	33.6	23.9	20.2	17.2	17.2
77.5°	1130.6	945.6	224.5	101.6	35.9	20.2	19.1	14.2	12.7	10.5	10.1
80°	492.8	416.2	67.6	28.4	19.8	10.8	7.1	6.4	5.6	4.5	4.1
82.5°	174.5	150.6	22.0	13.8	8.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.6	28.4	0.0	3.4	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: P324286

CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2244.3	2236.1	2187.5	2189.4	2198.0	2210.3	2181.2	2194.6	2230.9	2265.6	2278.7
5°	1735.4	1737.3	1707.8	1726.1	1742.5	1753.8	1706.7	1707.4	1736.2	1775.4	1796.0
7.5°	1222.8	1219.9	1221.4	1265.1	1296.1	1273.7	1291.2	1230.3	1234.1	1262.1	1241.2
10°	909.0	867.9	844.7	877.6	911.6	899.3	869.0	849.2	863.1	894.1	891.8
12.5°	714.4	655.3	620.6	597.0	625.1	601.9	601.1	584.0	565.3	568.6	618.3
15°	537.3	494.3	453.2	415.5	414.7	406.9	366.9	322.1	318.3	320.6	346.3
17.5°	369.5	354.9	338.1	305.6	297.0	264.1	225.3	207.4	198.4	202.5	211.1
20°	259.7	254.1	255.9	238.4	226.0	194.7	171.9	164.8	163.3	167.4	171.5
22.5°	215.2	205.1	204.0	196.1	183.8	161.0	148.7	144.6	142.7	146.5	149.4
25°	188.3	178.2	174.1	169.2	156.2	140.5	133.0	129.3	127.4	129.6	131.5
27.5°	165.9	156.5	152.8	149.4	136.7	125.5	119.6	116.2	114.7	115.4	117.3
30°	149.1	140.9	136.0	131.9	121.1	113.2	108.0	104.6	103.1	103.1	105.0
32.5°	131.5	127.0	122.5	117.3	107.2	102.0	96.8	93.0	91.5	91.9	93.4
35°	109.5	108.0	109.1	104.2	95.6	91.2	85.9	81.8	80.7	81.1	82.6
37.5°	97.1	90.4	94.5	91.9	87.1	81.1	74.3	70.6	68.7	69.9	70.6
40°	89.3	81.1	78.1	80.7	80.0	70.2	64.3	60.5	59.0	59.4	60.2
42.5°	82.6	72.9	66.1	65.8	70.2	61.3	54.9	51.6	49.7	49.7	50.4
45°	76.2	65.8	57.5	51.2	59.0	51.9	46.0	43.0	40.7	40.7	41.1
47.5°	71.4	59.8	50.1	41.8	44.5	42.6	37.7	34.7	32.5	32.5	32.9
50°	66.9	53.8	43.3	35.1	33.3	35.1	30.6	27.3	25.8	25.4	26.2
52.5°	62.0	47.8	37.0	29.9	26.2	26.5	23.9	21.7	19.8	19.8	20.5
55°	57.2	43.0	32.1	25.4	21.7	19.8	19.1	17.6	16.1	16.1	16.8
57.5°	52.3	37.7	27.3	20.9	17.2	15.7	15.7	14.6	13.5	13.5	14.2
60°	47.8	32.5	22.4	17.2	13.5	13.1	13.5	12.3	11.6	11.6	12.3
62.5°	42.6	27.6	18.3	14.2	10.8	10.5	11.6	10.8	10.1	10.1	10.8
65°	36.2	23.5	14.6	10.8	8.2	8.2	9.7	9.0	8.2	8.2	9.0
67.5°	30.6	19.8	11.2	7.8	6.0	6.4	8.2	7.5	7.1	7.1	7.8
70°	25.4	15.3	7.8	4.9	3.4	4.9	6.4	6.4	6.4	6.4	7.1
72.5°	19.1	10.5	4.5	1.9	1.5	3.4	5.2	6.0	5.6	5.6	6.7
75°	12.3	6.0	1.5	0.0	0.0	1.9	4.1	4.9	4.9	4.5	5.6
77.5°	7.1	1.9	0.0	0.0	0.0	0.0	2.6	2.2	1.9	1.5	2.6
80°	1.9	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: P324286

CATALOG NUMBER: GLEON-SA2C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2331.4	2375.5	2437.5	2503.2	2604.5	2684.8	2763.6	2831.3	2857.4	2868.3
5°	1845.3	1909.9	2000.7	2117.3	2300.0	2464.4	2631.0	2798.8	2871.6	2889.9
7.5°	1324.1	1406.7	1522.1	1668.2	1882.3	2095.2	2328.0	2574.2	2687.1	2715.4
10°	980.0	1080.9	1213.1	1367.1	1571.4	1790.4	2044.1	2325.4	2454.3	2492.0
12.5°	695.3	831.7	1008.8	1195.9	1373.0	1568.4	1825.1	2135.2	2270.5	2311.2
15°	408.4	540.2	749.8	1000.5	1227.3	1425.3	1686.1	2037.7	2186.8	2227.9
17.5°	234.3	300.0	458.4	737.9	1045.8	1320.0	1642.4	2062.0	2237.6	2275.7
20°	179.0	199.9	264.1	475.2	833.5	1216.5	1642.4	2199.5	2415.8	2471.8
22.5°	156.5	171.9	198.0	283.6	613.5	1105.5	1661.5	2398.2	2681.1	2743.1
25°	139.0	152.8	175.2	213.3	418.5	973.6	1706.7	2642.2	2993.4	3073.7
27.5°	124.4	137.5	157.7	186.8	286.2	814.5	1767.6	2928.4	3337.9	3402.2
30°	111.3	123.7	142.0	162.5	220.8	634.0	1819.5	3198.2	3608.4	3677.5
32.5°	99.0	110.2	126.7	142.0	180.8	468.9	1825.1	3411.9	3832.9	3901.7
35°	87.4	97.5	112.5	124.4	149.8	370.3	1738.1	3597.2	4057.5	4148.3
37.5°	76.2	85.9	99.0	108.0	131.9	301.9	1605.1	3803.8	4345.5	4429.6
40°	65.8	74.3	87.8	93.8	124.8	232.0	1460.5	4020.5	4628.0	4705.0
42.5°	56.0	64.3	77.3	88.9	109.5	173.4	1304.3	4223.7	4882.0	4962.8
45°	46.7	55.3	68.4	94.2	90.8	129.6	1137.3	4358.6	5082.7	5170.5
47.5°	37.7	47.4	65.4	89.7	72.5	95.3	1005.0	4486.4	5234.7	5321.4
50°	30.3	40.0	73.6	80.0	59.4	72.9	949.7	4600.7	5334.5	5417.8
52.5°	24.7	33.6	69.5	61.3	49.7	60.2	979.6	4786.0	5426.8	5479.1
55°	20.5	26.5	41.8	42.6	42.2	51.2	1016.6	5052.0	5665.5	5690.2
57.5°	17.9	21.3	29.1	32.9	35.5	45.6	1017.4	5433.9	6035.0	6050.3
60°	15.3	18.7	24.3	26.5	30.6	40.7	980.4	5567.3	6180.4	6231.2
62.5°	13.5	16.4	20.2	22.0	25.8	36.6	893.7	5374.1	5980.9	6067.2
65°	12.0	14.9	16.8	18.7	22.8	32.9	751.0	4987.8	5649.8	5739.9
67.5°	10.5	13.1	14.9	16.8	20.5	29.1	553.0	4539.1	5269.9	5344.6
70°	9.3	11.6	13.5	14.9	17.9	24.7	335.5	3851.6	4744.6	4775.6
72.5°	9.0	10.5	12.3	13.5	15.7	21.7	170.0	2830.5	3793.0	3843.4
75°	7.8	9.3	11.2	12.0	13.8	18.7	69.1	1859.1	2748.7	2829.8
77.5°	6.4	8.6	10.1	10.8	12.0	15.3	35.1	1188.1	1929.0	1981.3
80°	2.2	6.4	8.6	9.0	10.1	11.2	23.2	650.5	1119.0	1141.4
82.5°	0.0	4.1	6.7	6.4	7.1	8.6	14.9	309.4	738.6	746.9
85°	0.0	1.9	5.2	4.1	3.0	6.0	5.2	67.6	387.4	403.5
87.5°	0.0	0.0	0.4	1.9	1.5	2.2	0.7	0.4	35.1	44.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)