

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P320787

Luminaire Tested: **GLEON-SA3A-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9935 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

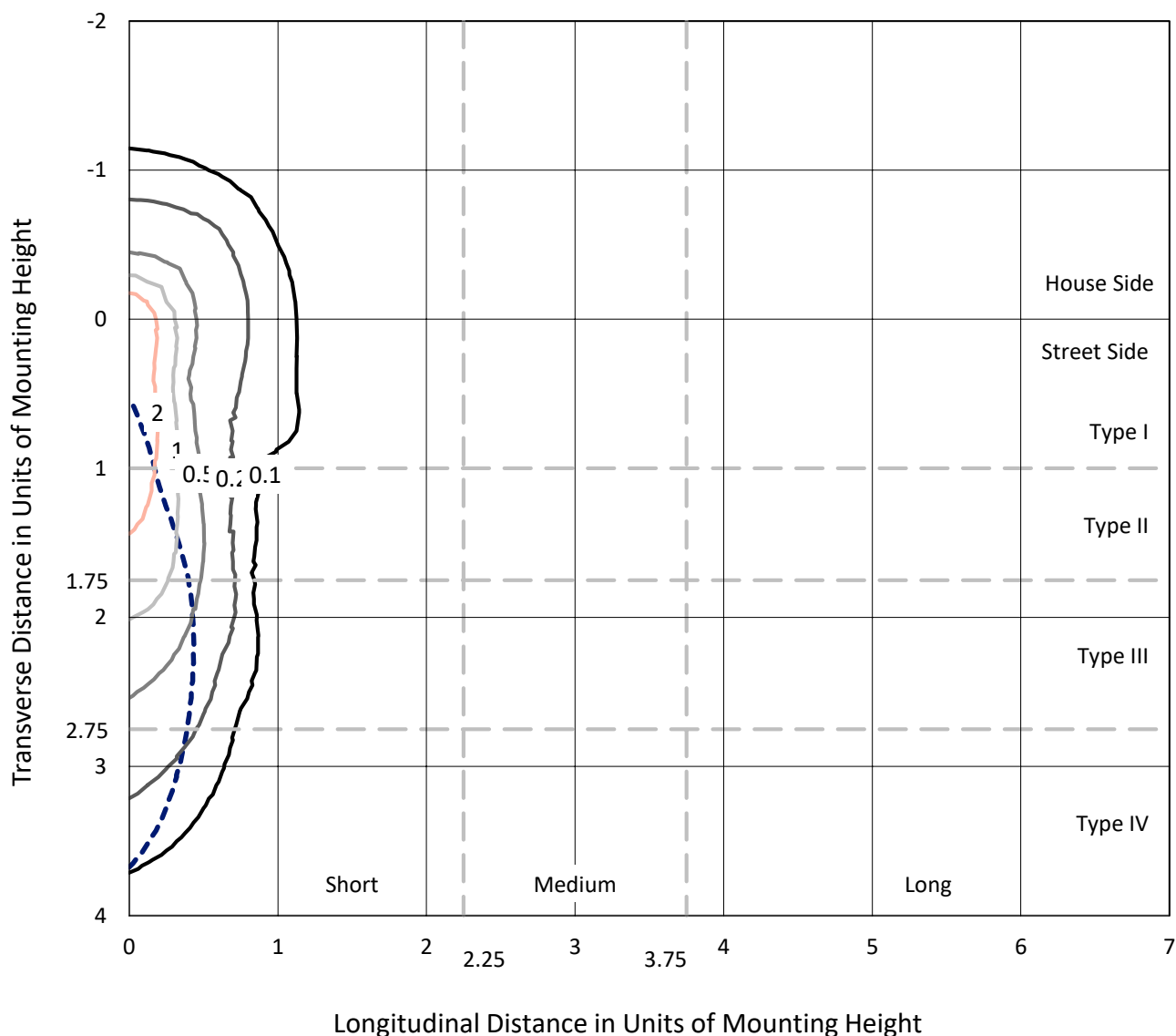
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

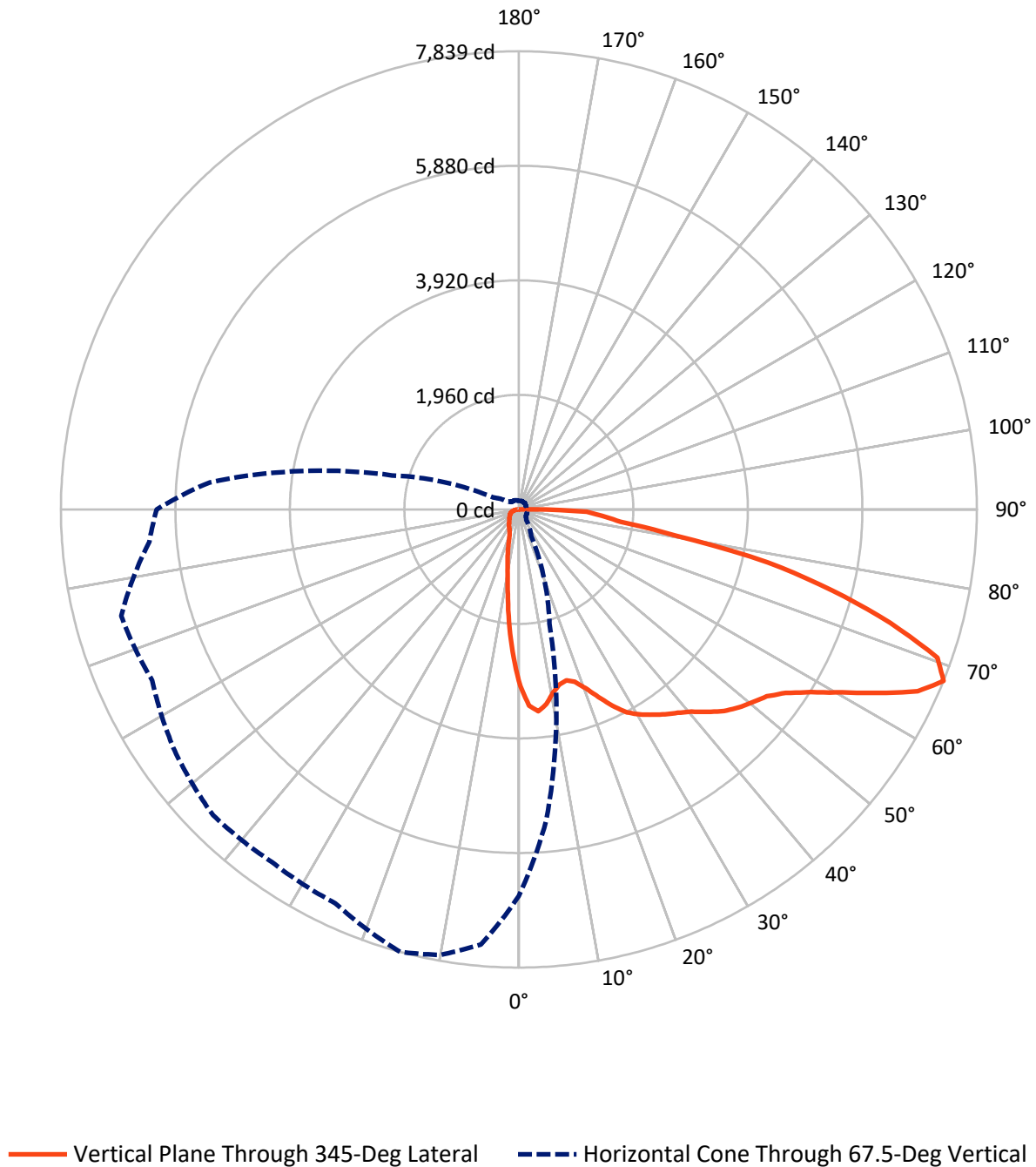
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1717.5	0.0	1717.5
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	8217.4	0.0	8217.4
	% Fixture	82.7	0.0	82.7
Total	Lumens	9935.0	0.0	9935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	2.4
10°-20°	485.3	4.9
20°-30°	690.2	6.9
30°-40°	994.5	10.0
40°-50°	1401.6	14.1
50°-60°	1948.4	19.6
60°-70°	2356.2	23.7
70°-80°	1448.3	14.6
80°-90°	376.9	3.8
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°	9935.0	100.0
0°-180°	9935.0	100.0

Coefficient of Utilization



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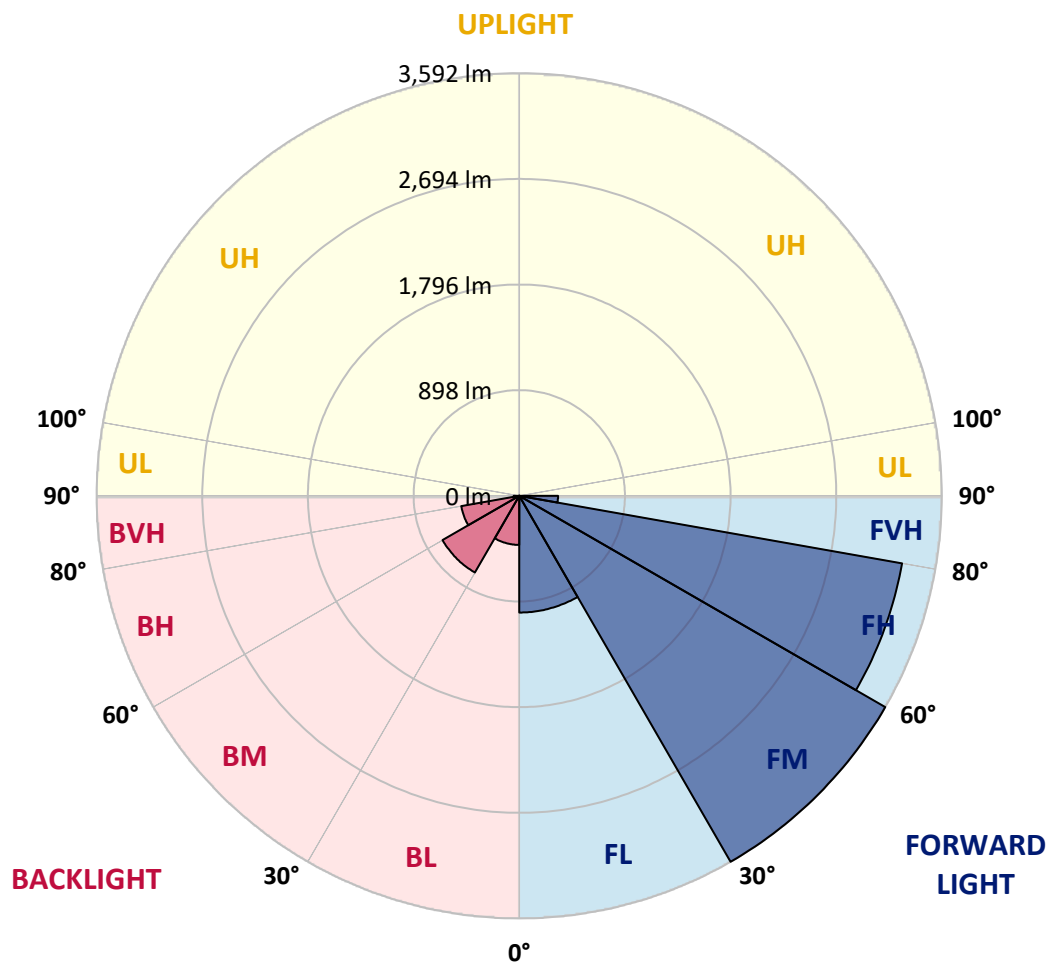
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.0	10.0			
FM	(30°-60°)	3591.7	36.2			
FH	(60°-80°)	3304.0	33.3			G2/5000
FVH	(80°-90°)	329.6	3.3			G3/500
BL	(0°-30°)	417.0	4.2	B1/500		
BM	(30°-60°)	752.8	7.6	B1/1000		
BH	(60°-80°)	500.5	5.0	B2/1000		G2/1000
BVH	(80°-90°)	47.2	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	3242.5	3213.9	3170.6	3127.3	3095.1	3062.5	3025.6	2988.6	2946.5	2904.0	2879.0
5°	3188.8	3109.4	3006.1	2902.8	2834.5	2766.2	2688.7	2611.3	2534.6	2458.0	2416.6
7.5°	2947.3	2828.2	2693.9	2559.6	2460.3	2360.6	2253.4	2145.7	2050.4	1954.7	1895.5
10°	2709.8	2566.8	2412.7	2258.2	2131.1	2003.9	1896.3	1788.3	1716.4	1644.5	1590.0
12.5°	2539.4	2380.9	2211.3	2041.3	1914.2	1787.1	1718.7	1650.4	1590.8	1531.3	1468.5
15°	2471.9	2292.7	2119.1	1945.2	1829.6	1714.0	1638.1	1561.8	1482.0	1401.8	1324.7
17.5°	2531.4	2321.7	2133.0	1944.4	1793.0	1641.7	1535.6	1429.2	1323.9	1218.7	1129.3
20°	2717.3	2449.6	2202.9	1955.9	1754.5	1553.1	1410.9	1268.3	1133.3	998.2	896.9
22.5°	2978.3	2624.0	2301.9	1979.7	1719.5	1459.0	1280.6	1101.9	942.2	782.5	683.2
25°	3295.3	2855.2	2444.5	2033.3	1705.2	1376.7	1157.5	938.2	769.8	601.0	530.3
27.5°	3629.3	3130.8	2621.6	2112.0	1707.6	1303.3	1053.8	804.0	652.2	500.5	452.0
30°	3907.8	3445.8	2828.2	2210.1	1716.8	1223.4	956.1	688.8	563.6	438.5	407.1
32.5°	4162.4	3665.5	2983.9	2301.9	1727.1	1151.9	880.6	608.9	506.8	404.4	378.5
35°	4425.4	3860.5	3092.7	2324.5	1709.2	1093.5	829.0	564.4	470.3	375.8	353.9
37.5°	4714.9	4071.4	3197.6	2323.3	1679.0	1034.7	788.9	542.6	446.5	349.9	334.1
40°	5037.9	4304.6	3311.2	2317.7	1651.6	985.1	759.1	532.7	433.4	333.7	320.2
42.5°	5353.6	4527.0	3416.8	2306.6	1629.4	951.7	729.7	507.6	421.4	334.9	315.8
45°	5590.8	4721.3	3508.6	2295.5	1612.7	929.9	706.6	483.4	410.3	337.2	313.0
47.5°	5770.7	4916.3	3610.3	2303.8	1611.1	918.4	690.4	462.4	389.3	315.8	305.9
50°	5999.5	5150.7	3758.4	2366.2	1632.9	899.7	671.3	442.5	369.0	295.5	309.0
52.5°	6284.3	5485.1	3988.0	2490.5	1678.6	866.7	641.1	415.5	344.4	272.9	293.9
55°	6702.6	5913.7	4281.6	2649.0	1733.8	818.3	595.4	372.2	311.8	251.0	269.7
57.5°	7077.9	6346.7	4563.2	2779.3	1768.4	757.1	537.8	318.6	275.3	232.0	242.7
60°	7245.2	6569.9	4695.1	2819.8	1747.7	675.7	473.1	270.1	243.1	216.1	214.1
62.5°	7180.0	6428.1	4565.2	2702.2	1646.8	591.5	415.9	240.3	220.1	199.4	195.0
65°	6989.4	5982.4	4201.3	2420.2	1476.4	532.7	379.7	226.8	204.2	181.5	176.8
67.5°	6613.6	5348.1	3685.7	2023.4	1260.0	496.5	359.1	221.6	194.2	166.4	160.9
70°	5939.1	4584.6	3091.9	1598.8	1036.7	474.3	345.6	216.9	183.5	149.7	144.6
72.5°	4878.2	3675.8	2469.1	1261.9	866.7	471.5	344.0	216.5	174.8	133.1	128.3
75°	3492.7	2792.0	1884.8	977.1	709.8	442.5	326.5	210.5	162.9	114.8	110.4
77.5°	2350.3	1932.4	1310.0	687.2	526.7	366.2	274.5	182.7	139.4	96.1	91.8
80°	1509.4	1337.4	877.8	418.3	341.6	264.9	196.2	127.5	101.7	75.5	71.9
82.5°	1107.4	995.4	610.1	224.8	189.9	154.5	120.0	85.4	69.5	53.6	52.0
85°	703.9	776.2	449.2	122.3	100.1	77.9	64.3	50.8	40.1	29.4	29.4
87.5°	136.6	189.1	124.3	59.2	43.3	27.4	23.4	19.1	10.7	2.0	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	2853.6	2826.2	2798.8	2767.8	2736.4	2707.4	2678.0	2645.8	2651.8	2627.2	2602.5
5°	2375.3	2331.6	2287.6	2249.4	2211.3	2178.3	2145.0	2115.2	2141.0	2123.5	2106.0
7.5°	1835.9	1781.9	1727.5	1681.8	1636.1	1600.8	1565.0	1540.4	1565.8	1562.6	1559.5
10°	1535.6	1483.2	1430.4	1379.9	1329.5	1286.6	1243.3	1206.7	1200.4	1182.1	1163.4
12.5°	1405.3	1333.4	1261.2	1208.3	1155.5	1104.3	1053.0	1010.1	990.7	960.5	929.9
15°	1247.6	1162.6	1077.6	1017.7	957.3	907.6	857.6	820.6	808.3	784.9	761.5
17.5°	1039.9	947.0	854.0	793.2	732.1	692.3	652.2	627.6	627.6	620.8	614.1
20°	795.6	712.6	629.6	583.1	536.6	515.6	494.1	483.8	487.0	487.4	487.4
22.5°	583.5	532.7	481.8	463.2	444.1	436.5	429.0	424.6	426.2	426.6	427.0
25°	459.6	440.1	420.3	410.7	400.8	396.0	391.3	389.7	393.2	393.6	393.6
27.5°	403.6	391.7	379.3	373.4	367.0	365.0	363.1	360.3	363.8	363.8	363.5
30°	375.4	362.7	349.9	342.4	334.9	335.6	336.0	335.2	337.6	339.2	340.4
32.5°	352.3	340.0	327.7	320.2	312.2	311.0	309.8	309.0	314.2	317.0	319.8
35°	331.7	318.2	304.7	297.5	290.4	287.6	284.8	282.8	287.6	291.2	294.7
37.5°	317.8	303.9	289.6	282.8	275.7	272.1	268.5	266.1	268.1	269.7	271.3
40°	306.6	292.3	277.7	269.7	261.8	258.2	254.6	252.6	253.8	254.2	254.6
42.5°	296.3	282.4	268.5	259.8	250.6	246.3	241.9	239.5	240.3	241.1	241.5
45°	288.8	274.9	260.6	250.2	239.5	234.8	230.0	227.2	227.6	227.6	227.6
47.5°	295.9	275.7	255.0	243.1	230.8	225.2	219.7	216.9	216.1	215.3	214.5
50°	322.1	287.6	252.6	237.5	222.0	216.1	209.7	206.6	204.6	203.8	203.0
52.5°	314.6	284.8	254.6	235.2	215.3	208.1	201.0	195.8	193.8	192.6	191.5
55°	288.0	269.3	250.2	226.8	203.4	197.0	190.3	186.7	183.1	182.3	181.5
57.5°	253.0	245.5	237.9	214.1	190.3	184.3	178.0	175.6	172.4	172.4	172.0
60°	211.7	222.8	234.0	206.6	178.7	172.0	165.2	163.3	162.1	161.7	161.3
62.5°	190.3	208.5	226.4	197.4	168.0	160.9	153.7	151.3	150.9	151.3	151.3
65°	172.0	177.6	183.1	169.6	156.1	149.0	141.4	139.0	139.8	141.0	142.2
67.5°	155.3	154.1	152.9	148.2	143.0	137.0	130.7	128.3	128.7	130.3	131.9
70°	139.4	137.8	135.8	132.3	128.7	123.5	118.4	116.8	116.4	118.4	120.0
72.5°	123.5	121.5	119.2	116.4	113.2	108.8	104.5	103.3	103.7	104.9	106.1
75°	106.1	104.5	102.5	100.1	97.3	93.3	89.4	88.6	89.4	90.6	91.8
77.5°	87.0	86.6	85.8	83.8	81.8	77.5	72.7	72.3	73.5	74.7	75.5
80°	67.9	68.3	68.7	67.1	65.5	60.8	55.6	55.2	56.4	57.6	58.8
82.5°	50.0	51.2	52.0	50.0	48.1	42.5	36.9	36.1	40.1	41.3	42.5
85°	29.0	30.6	32.2	30.6	29.0	23.4	17.9	17.5	21.1	23.0	25.0
87.5°	2.4	3.2	4.0	3.6	3.2	1.6	0.0	0.0	0.4	2.0	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320787

CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	2587.1	2571.6	2566.8	2562.0	2544.5	2526.7	2544.9	2562.8	2570.4	2577.9	2558.5
5°	2103.6	2100.9	2100.9	2100.5	2084.6	2068.3	2080.6	2092.5	2065.9	2039.3	2036.5
7.5°	1576.5	1593.6	1607.5	1621.0	1615.9	1610.7	1622.2	1633.7	1600.0	1565.8	1549.1
10°	1167.4	1171.0	1186.1	1201.2	1204.7	1207.9	1222.2	1236.1	1209.9	1183.7	1172.2
12.5°	910.8	891.7	893.7	895.3	902.5	909.2	924.3	939.0	928.3	917.2	918.4
15°	737.6	713.4	703.5	693.1	701.1	709.0	719.8	730.1	730.5	730.5	740.8
17.5°	602.2	589.9	579.9	569.6	580.3	590.7	591.8	593.0	593.4	593.8	593.0
20°	493.3	499.3	496.1	492.9	496.9	500.5	503.7	506.4	502.9	498.9	489.0
22.5°	432.6	437.7	441.7	445.3	452.0	458.4	455.2	451.6	444.5	436.9	429.4
25°	397.2	400.8	404.8	408.7	414.3	419.5	413.9	408.3	403.2	398.0	392.8
27.5°	367.4	371.0	374.6	377.8	382.9	387.7	382.5	377.4	373.0	368.6	364.6
30°	343.2	345.6	348.4	351.1	355.9	360.3	355.9	351.1	348.0	344.4	341.6
32.5°	322.5	324.9	326.1	327.3	331.7	336.0	332.9	329.7	326.9	324.1	322.1
35°	299.9	304.7	305.5	306.3	310.6	315.0	313.0	310.6	307.4	304.3	300.7
37.5°	276.9	282.4	285.6	288.4	292.7	297.1	295.1	293.1	288.8	284.4	278.0
40°	257.4	259.8	265.7	271.3	278.4	285.2	281.2	276.9	270.1	263.4	260.2
42.5°	241.1	240.7	246.3	251.8	262.6	272.9	265.7	258.6	252.2	245.9	245.1
45°	226.8	225.6	228.4	231.2	242.7	253.8	246.7	239.1	235.5	232.0	232.0
47.5°	214.1	213.3	215.3	216.9	224.0	230.8	227.2	223.6	221.6	219.7	220.1
50°	202.6	201.8	203.8	205.4	208.1	210.5	211.3	211.7	210.5	209.3	210.1
52.5°	191.9	191.9	192.6	193.0	196.6	200.2	200.2	199.8	199.8	199.8	200.6
55°	182.7	183.5	183.5	183.5	189.1	194.2	192.6	191.1	191.5	191.5	192.3
57.5°	173.6	174.8	175.6	176.4	181.9	187.5	185.9	184.3	184.3	184.3	184.7
60°	163.3	164.8	166.4	168.0	173.6	179.1	177.6	175.6	176.0	176.4	176.8
62.5°	153.3	154.9	156.5	158.1	163.7	169.2	167.6	165.6	166.8	167.6	167.6
65°	143.8	145.0	146.6	148.2	153.3	158.5	156.9	155.3	156.9	158.1	158.9
67.5°	133.1	133.9	135.4	137.0	142.2	147.4	145.8	143.8	145.8	147.4	149.0
70°	120.8	121.5	123.5	125.1	130.3	135.4	133.5	131.5	133.5	135.4	137.0
72.5°	107.2	108.0	110.0	111.6	117.6	123.5	121.2	118.8	121.2	123.5	124.3
75°	92.6	93.3	95.7	97.7	103.7	109.6	107.6	105.3	107.2	109.2	109.6
77.5°	76.7	77.9	81.0	84.2	89.0	93.7	92.6	91.4	92.6	93.7	93.7
80°	60.0	61.2	65.1	68.7	71.5	74.3	74.7	75.1	75.5	75.9	75.5
82.5°	44.5	46.1	49.7	53.2	53.2	53.2	56.4	59.2	59.2	58.8	58.4
85°	27.4	29.4	32.6	35.7	33.8	31.8	36.9	41.7	41.7	41.3	40.5
87.5°	5.6	7.5	10.7	13.5	11.5	9.5	14.7	19.9	20.3	20.3	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320787
 CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320787

CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	2538.6	2569.6	2600.2	2608.1	2620.0	2625.2	2630.0	2668.9	2707.4	2752.7	2798.0
5°	2033.3	2056.4	2079.4	2083.0	2095.3	2101.7	2108.0	2155.3	2202.2	2265.3	2328.5
7.5°	1532.4	1538.0	1543.6	1542.8	1553.1	1567.0	1580.5	1631.0	1681.0	1748.9	1816.5
10°	1160.7	1173.4	1185.7	1197.2	1219.8	1246.1	1271.9	1323.5	1375.2	1442.3	1509.0
12.5°	919.5	934.2	948.5	961.3	987.5	1022.4	1057.0	1119.0	1180.9	1261.2	1341.0
15°	750.7	749.5	748.4	757.1	780.1	818.3	856.0	921.5	987.1	1075.3	1163.0
17.5°	592.2	586.3	580.3	587.1	608.5	639.9	670.9	726.5	781.7	867.1	952.5
20°	479.0	475.1	471.1	477.5	491.0	504.1	517.2	557.3	597.0	666.5	735.6
22.5°	421.4	421.0	420.3	423.8	430.2	436.9	443.3	462.8	481.8	526.7	571.2
25°	387.7	387.3	386.9	388.5	393.6	398.8	404.0	416.7	429.4	450.8	472.3
27.5°	360.7	359.9	359.1	359.5	360.7	368.6	376.2	382.1	387.7	402.4	416.7
30°	338.8	338.4	338.0	338.0	336.8	339.6	342.4	351.5	360.3	375.4	390.5
32.5°	320.2	318.2	316.2	311.8	309.0	313.0	317.0	326.5	336.0	349.9	363.8
35°	296.7	291.6	286.0	283.6	284.0	288.0	292.0	301.5	310.6	325.7	340.4
37.5°	271.3	269.7	267.7	267.3	268.5	272.5	276.5	284.8	292.7	307.8	322.5
40°	257.0	256.2	255.4	254.6	255.4	259.4	263.4	271.3	278.8	293.5	307.8
42.5°	244.3	243.9	243.5	243.5	243.9	248.3	252.6	260.6	268.1	281.2	294.3
45°	232.0	232.4	232.4	233.2	234.4	238.7	242.7	251.4	260.2	272.9	285.6
47.5°	220.5	221.6	222.4	224.4	225.6	230.4	234.8	244.3	253.8	269.7	285.2
50°	210.5	211.7	212.5	214.1	217.3	222.8	228.4	239.9	251.0	277.7	303.9
52.5°	201.4	202.6	203.8	205.4	209.3	215.7	222.0	236.3	250.2	281.2	312.2
55°	193.0	194.2	195.0	197.4	201.4	206.9	212.1	229.6	247.1	269.7	292.3
57.5°	185.1	186.3	187.1	188.7	190.7	196.6	202.2	220.9	239.5	255.4	270.9
60°	176.8	177.6	178.0	178.0	179.5	186.3	193.0	216.9	240.3	237.5	234.4
62.5°	167.6	168.4	168.8	167.6	169.6	176.8	183.9	214.9	245.9	226.8	207.7
65°	159.3	158.9	158.5	157.3	159.7	166.8	173.6	189.1	204.6	197.0	189.5
67.5°	150.1	149.0	147.8	146.2	148.6	154.9	160.9	166.0	171.2	172.0	172.8
70°	138.6	137.0	135.4	135.1	136.2	141.4	146.6	150.1	153.3	154.9	156.1
72.5°	125.1	123.9	122.7	121.9	122.3	126.7	130.7	133.9	137.0	138.2	139.0
75°	110.0	110.0	109.6	107.2	107.2	110.8	114.0	116.8	119.6	121.2	122.7
77.5°	93.7	94.1	94.1	91.0	90.6	94.1	97.3	99.7	101.7	103.3	104.5
80°	75.1	74.3	73.5	71.5	70.7	75.1	79.0	81.0	82.6	83.0	83.0
82.5°	57.6	56.0	54.0	49.7	50.0	54.8	59.2	60.8	62.4	62.4	62.4
85°	39.3	36.1	32.6	29.0	29.4	34.6	39.3	40.9	42.5	43.3	43.7
87.5°	18.7	15.5	11.9	9.1	9.1	13.5	17.5	18.3	19.1	20.7	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320787
 CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320787

CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	2832.5	2866.7	2902.0	2937.4	2977.9	3018.4	3065.7	3112.6	3152.7	3192.8	3226.2
5°	2382.9	2437.3	2501.3	2565.2	2646.6	2728.1	2827.8	2927.1	3015.6	3104.2	3207.1
7.5°	1887.6	1958.3	2041.7	2125.1	2230.4	2335.6	2464.7	2593.8	2718.9	2843.7	3001.7
10°	1583.3	1657.6	1739.8	1821.6	1928.9	2035.7	2172.4	2308.6	2449.2	2589.4	2768.2
12.5°	1423.6	1505.8	1578.1	1650.4	1737.4	1824.0	1956.3	2088.5	2253.8	2418.6	2590.6
15°	1253.2	1343.0	1429.6	1516.2	1611.1	1705.6	1834.3	1963.0	2143.8	2324.5	2522.3
17.5°	1047.1	1141.6	1247.3	1352.5	1476.4	1600.0	1764.8	1929.7	2143.8	2357.5	2590.6
20°	832.2	928.7	1055.0	1181.3	1335.4	1489.2	1702.9	1916.6	2204.9	2492.9	2790.4
22.5°	656.6	741.6	879.4	1016.9	1194.8	1372.8	1646.8	1920.5	2297.5	2674.0	3075.6
25°	532.3	592.2	727.7	862.7	1068.1	1273.5	1612.7	1951.5	2432.1	2912.4	3410.5
27.5°	456.0	495.3	621.6	747.6	972.0	1196.0	1598.8	2001.2	2602.9	3204.7	3774.7
30°	417.9	445.3	552.1	658.6	886.6	1114.6	1582.1	2049.6	2767.4	3484.8	4059.5
32.5°	386.1	407.9	499.3	590.3	812.7	1035.1	1549.9	2064.3	2882.2	3700.0	4300.6
35°	359.1	377.4	456.8	536.2	754.7	973.2	1495.9	2018.6	2954.1	3889.5	4551.7
37.5°	337.2	351.5	425.0	498.5	704.7	910.8	1434.3	1957.9	3018.0	4078.2	4834.1
40°	320.2	332.5	401.2	469.9	657.0	844.1	1381.5	1918.5	3106.2	4293.9	5132.4
42.5°	310.6	326.5	380.5	434.2	611.7	789.3	1339.0	1888.8	3188.0	4486.9	5393.4
45°	308.2	330.9	369.8	408.7	577.9	747.2	1301.3	1855.0	3240.9	4626.7	5590.0
47.5°	304.3	322.9	361.5	400.0	561.3	722.1	1281.0	1839.5	3293.7	4747.5	5753.2
50°	306.6	309.0	354.7	400.0	558.9	717.8	1304.1	1890.3	3408.1	4925.4	5939.9
52.5°	302.3	292.0	342.0	392.0	558.5	724.9	1370.4	2015.9	3620.6	5224.9	6142.1
55°	279.2	265.7	318.2	370.6	550.1	729.3	1449.4	2169.2	3905.8	5642.0	6505.6
57.5°	259.0	246.7	291.2	335.2	524.7	714.2	1530.9	2347.1	4207.3	6067.0	6915.1
60°	232.0	229.2	261.0	292.7	485.4	677.6	1598.0	2517.9	4409.9	6301.4	7072.8
62.5°	209.7	211.3	234.8	258.2	436.1	613.7	1620.2	2626.4	4404.3	6182.2	6913.9
65°	192.6	195.4	218.5	241.5	394.0	546.6	1547.1	2547.3	4181.5	5815.2	6599.7
67.5°	176.0	179.1	206.6	233.6	356.7	479.4	1364.4	2249.0	3780.7	5311.9	6200.1
70°	160.1	164.0	193.8	223.6	329.7	435.3	1128.9	1822.4	3279.0	4735.2	5737.4
72.5°	143.0	147.0	178.7	210.5	312.6	414.3	920.3	1426.0	2660.9	3895.5	4907.6
75°	125.5	128.3	162.9	197.0	289.2	381.3	722.1	1062.5	2036.5	3010.5	3706.8
77.5°	108.0	111.6	140.6	169.2	245.5	321.3	544.2	767.0	1494.3	2221.2	2577.9
80°	86.2	89.4	110.0	130.3	189.5	248.3	374.2	500.1	1028.4	1556.7	1757.7
82.5°	65.9	69.5	83.4	96.9	135.1	173.2	226.8	280.4	683.2	1085.6	1102.3
85°	45.3	46.5	56.4	65.9	83.4	100.9	129.9	158.9	452.0	745.2	620.8
87.5°	22.6	22.6	29.4	36.1	44.9	53.6	68.7	83.4	144.6	205.8	118.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320787
 CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320787

CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	3268.7	3297.7	3327.1	3349.3	3371.9	3404.5	3437.1	3443.0	3449.4	3436.7	3424.0
5°	3310.8	3398.6	3486.7	3568.2	3649.6	3698.5	3747.3	3757.2	3767.2	3736.6	3705.6
7.5°	3154.7	3307.6	3460.5	3600.7	3741.0	3826.0	3911.4	3930.4	3949.9	3899.8	3849.8
10°	2946.1	3134.0	3321.9	3506.6	3691.3	3814.8	3938.4	3963.0	3987.6	3925.3	3862.9
12.5°	2784.9	2985.5	3186.0	3380.7	3575.7	3703.6	3831.5	3862.1	3892.7	3847.4	3801.7
15°	2735.2	2923.9	3112.6	3282.2	3452.2	3556.6	3661.5	3673.8	3686.5	3679.4	3672.2
17.5°	2825.4	2995.8	3166.6	3258.7	3351.3	3393.0	3435.1	3448.6	3462.5	3480.4	3498.7
20°	3043.8	3163.8	3284.2	3280.2	3275.8	3255.6	3234.9	3231.3	3227.8	3279.0	3330.6
22.5°	3370.0	3417.6	3465.7	3354.1	3242.5	3174.5	3106.2	3092.7	3078.8	3133.2	3188.0
25°	3723.9	3715.1	3706.0	3493.5	3280.6	3151.1	3021.6	3006.5	2991.4	3037.9	3084.8
27.5°	4074.2	4017.0	3959.8	3671.0	3382.3	3194.4	3006.5	2991.4	2976.3	3017.6	3058.9
30°	4331.2	4239.5	4147.7	3820.8	3493.9	3270.7	3047.4	3022.8	2997.8	3048.6	3099.5
32.5°	4531.8	4408.7	4285.5	3942.3	3599.2	3357.6	3116.1	3077.6	3039.1	3107.0	3174.9
35°	4732.0	4558.8	4385.2	4050.8	3715.9	3460.5	3204.7	3157.4	3110.2	3203.5	3296.9
37.5°	4983.8	4735.2	4486.1	4172.7	3859.3	3614.6	3369.6	3321.1	3272.6	3391.4	3510.6
40°	5257.1	4925.4	4593.8	4306.2	4018.6	3827.9	3636.9	3590.8	3544.3	3688.9	3833.5
42.5°	5484.3	5102.6	4720.9	4467.1	4212.8	4078.6	3943.9	3943.5	3942.7	4089.3	4235.9
45°	5669.0	5250.4	4831.3	4624.0	4416.2	4346.3	4276.4	4332.4	4388.4	4520.7	4653.4
47.5°	5806.9	5374.3	4941.3	4803.5	4665.7	4676.0	4686.3	4800.3	4914.3	4999.3	5084.7
50°	5896.6	5486.7	5076.4	5033.9	4991.4	5083.9	5176.9	5307.6	5438.6	5496.6	5554.6
52.5°	6027.3	5639.2	5250.8	5298.4	5346.1	5535.2	5724.2	5856.5	5988.8	6010.2	6032.1
55°	6329.6	5919.7	5509.4	5600.7	5692.5	5969.7	6247.4	6350.6	6453.9	6461.9	6469.8
57.5°	6759.0	6312.5	5866.0	5964.6	6063.1	6383.2	6703.8	6815.0	6926.6	6911.1	6895.2
60°	7080.3	6685.5	6290.3	6389.6	6488.9	6801.1	7113.3	7241.2	7369.5	7335.3	7301.2
62.5°	7100.2	6889.3	6678.0	6767.7	6857.9	7163.7	7469.6	7601.1	7732.6	7673.0	7613.4
65°	6784.4	6878.9	6973.5	7003.3	7033.1	7318.3	7603.9	7704.4	7805.2	7775.1	7744.9
67.5°	6349.5	6697.8	7046.6	6986.6	6926.6	7060.5	7194.3	7298.0	7401.7	7384.6	7367.1
70°	5915.3	6380.4	6845.6	6550.8	6255.7	6200.5	6145.3	6256.9	6368.9	6299.8	6230.3
72.5°	5176.1	5671.8	6167.9	5624.9	5081.9	4893.3	4704.6	4846.4	4988.2	4878.2	4767.8
75°	4063.1	4610.9	5159.0	4511.2	3863.3	3611.5	3359.6	3481.6	3603.5	3528.0	3452.2
77.5°	3024.8	3564.6	4104.4	3445.8	2786.8	2599.8	2412.3	2448.4	2485.0	2472.3	2459.1
80°	2051.6	2427.8	2804.3	2365.8	1927.3	1941.6	1956.3	1939.2	1921.7	1947.1	1972.6
82.5°	1309.2	1599.6	1890.3	1657.6	1424.8	1558.3	1691.7	1626.2	1560.3	1584.5	1609.1
85°	747.2	1031.2	1315.6	1226.2	1136.4	1214.3	1292.5	1190.8	1089.2	1133.6	1178.5
87.5°	197.0	570.4	944.2	857.2	770.2	669.3	568.4	433.8	299.1	436.9	574.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320787

CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320787

CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	3417.2	3410.5	3386.2	3361.6	3325.1	3294.9	3242.5
5°	3662.7	3619.8	3545.9	3471.6	3389.0	3294.1	3188.8
7.5°	3749.7	3649.2	3507.4	3365.2	3237.3	3087.1	2947.3
10°	3712.8	3562.2	3377.9	3193.2	3037.9	2865.1	2709.8
12.5°	3642.1	3482.0	3279.0	3075.6	2898.9	2713.4	2539.4
15°	3544.7	3416.8	3226.6	3036.3	2858.3	2678.0	2471.9
17.5°	3438.3	3377.5	3240.1	3102.2	2948.1	2773.3	2531.4
20°	3352.5	3374.7	3319.9	3265.1	3141.6	2989.0	2717.3
22.5°	3294.5	3401.3	3443.4	3485.9	3411.7	3292.5	2978.3
25°	3261.9	3439.1	3580.1	3721.5	3688.5	3596.8	3295.3
27.5°	3276.2	3493.5	3712.4	3931.6	3962.2	3936.8	3629.3
30°	3319.1	3539.2	3805.7	4072.6	4194.6	4228.7	3907.8
32.5°	3390.6	3606.3	3896.7	4187.4	4371.7	4480.6	4162.4
35°	3498.7	3700.4	4003.1	4305.8	4544.1	4742.7	4425.4
37.5°	3684.2	3857.7	4137.0	4416.6	4725.6	5024.0	4714.9
40°	3955.8	4078.6	4314.5	4550.9	4939.7	5342.5	5037.9
42.5°	4298.6	4361.8	4548.9	4736.0	5163.4	5631.7	5353.6
45°	4670.0	4686.7	4804.3	4922.3	5340.5	5828.7	5590.8
47.5°	5027.5	4970.3	5017.2	5064.1	5476.4	5969.3	5770.7
50°	5395.4	5236.1	5211.4	5186.8	5612.2	6135.0	5999.5
52.5°	5769.5	5507.0	5409.7	5311.9	5774.3	6354.6	6284.3
55°	6135.8	5801.7	5670.6	5539.5	6022.2	6622.7	6702.6
57.5°	6516.7	6138.1	6016.6	5895.0	6386.4	6962.4	7077.9
60°	6926.6	6551.6	6454.3	6356.6	6839.2	7329.4	7245.2
62.5°	7315.5	7017.6	6966.3	6914.7	7297.2	7611.4	7180.0
65°	7575.3	7405.3	7452.9	7501.0	7643.6	7681.7	6989.4
67.5°	7401.7	7436.2	7637.6	7839.4	7741.3	7472.8	6613.6
70°	6437.2	6644.6	7121.6	7599.1	7381.4	6913.1	5939.1
72.5°	5000.5	5233.7	5941.9	6650.5	6450.0	5876.4	4878.2
75°	3715.1	3978.5	4760.2	5541.9	5263.5	4395.6	3492.7
77.5°	2635.5	2811.9	3583.7	4355.8	3901.8	2925.9	2350.3
80°	1918.5	1864.5	2294.7	2724.9	2649.4	1935.2	1509.4
82.5°	1477.2	1345.4	1547.9	1750.5	1739.4	1343.0	1107.4
85°	1125.7	1072.9	1252.0	1431.2	1277.8	909.6	703.9
87.5°	656.2	738.0	948.9	1160.3	870.7	276.1	136.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320787
 CATALOG NUMBER: GLEON-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

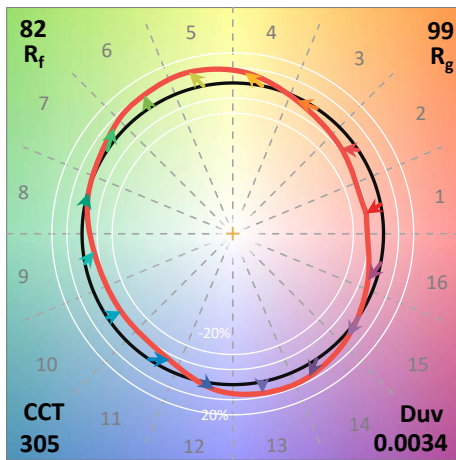
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

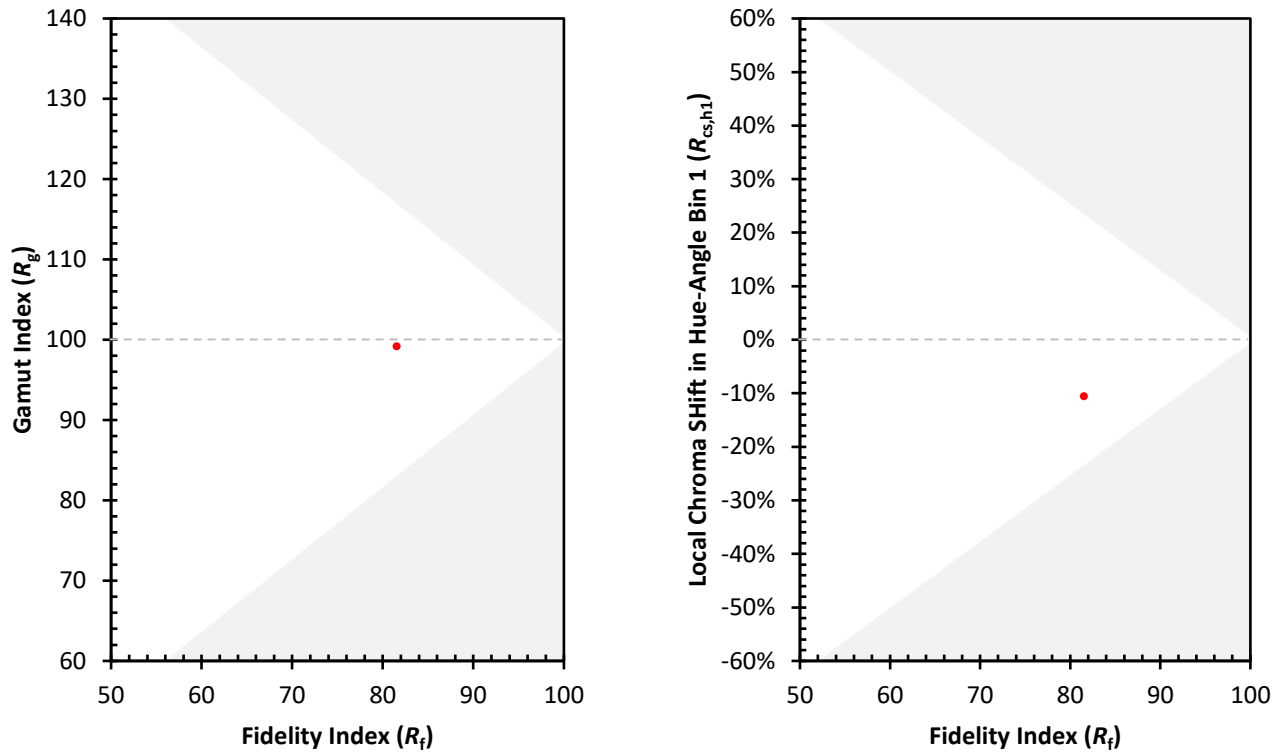
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)