

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: P320797

Luminaire Tested: **GLEON-SA3B-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320797
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-SA3B-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 12183 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

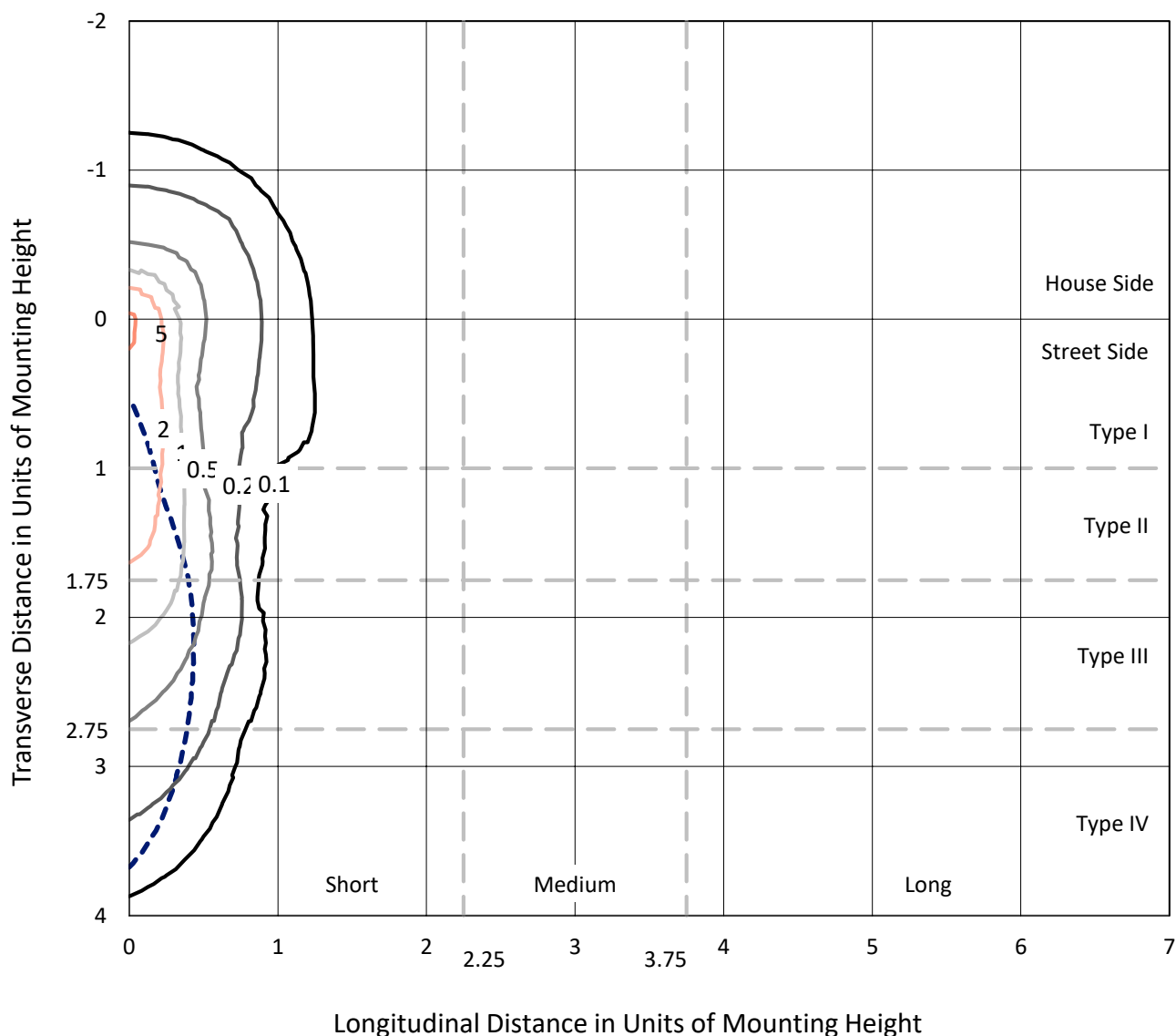
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

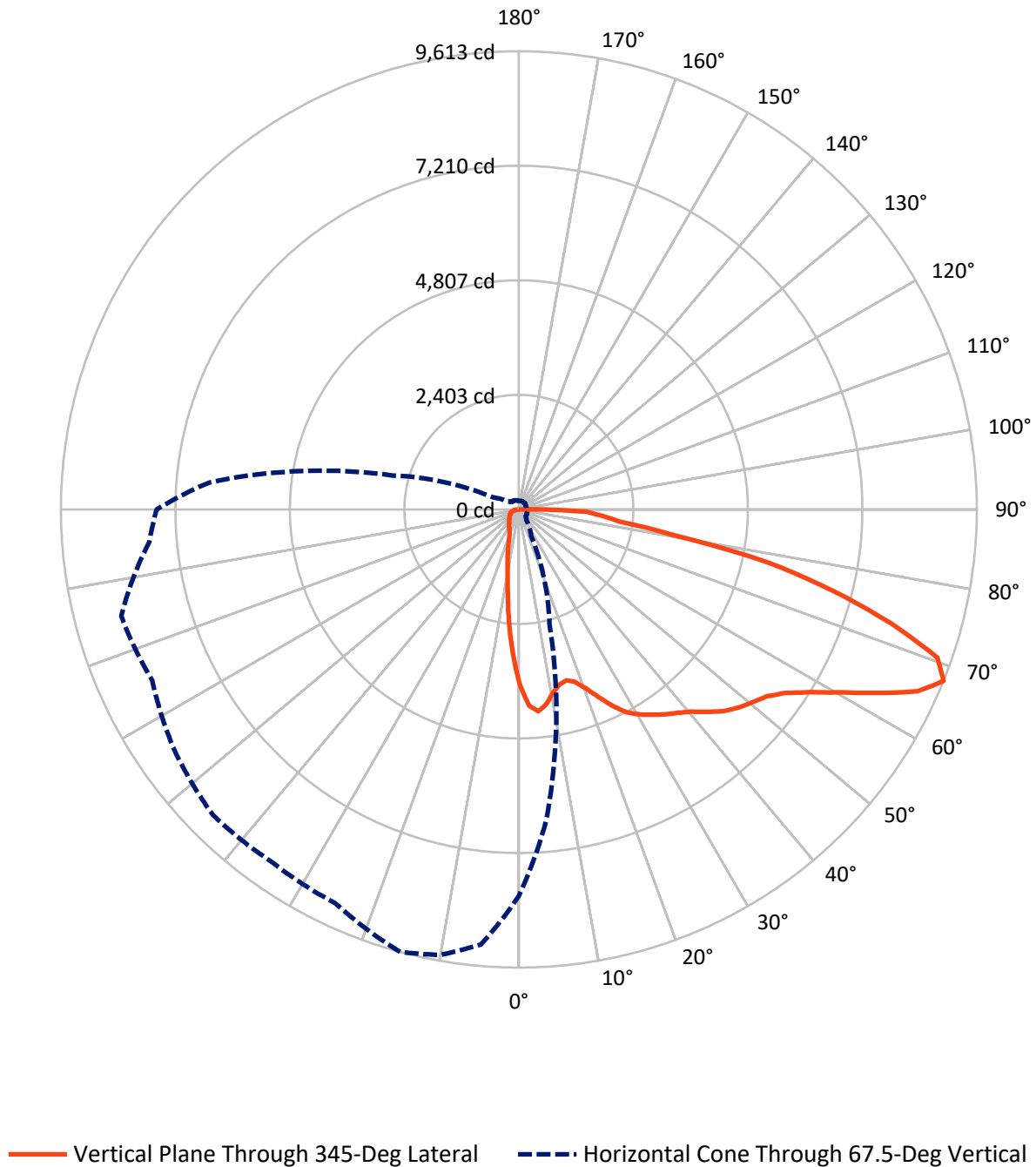
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2106.2	0.0	2106.2
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	10076.8	0.0	10076.8
	% Fixture	82.7	0.0	82.7
Total	Lumens	12183.0	0.0	12183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	2.4
10°-20°	595.1	4.9
20°-30°	846.3	6.9
30°-40°	1219.6	10.0
40°-50°	1718.7	14.1
50°-60°	2389.3	19.6
60°-70°	2889.4	23.7
70°-80°	1776.0	14.6
80°-90°	462.1	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°	12183.0	100.0
0°-180°	12183.0	100.0

Coefficient of Utilization



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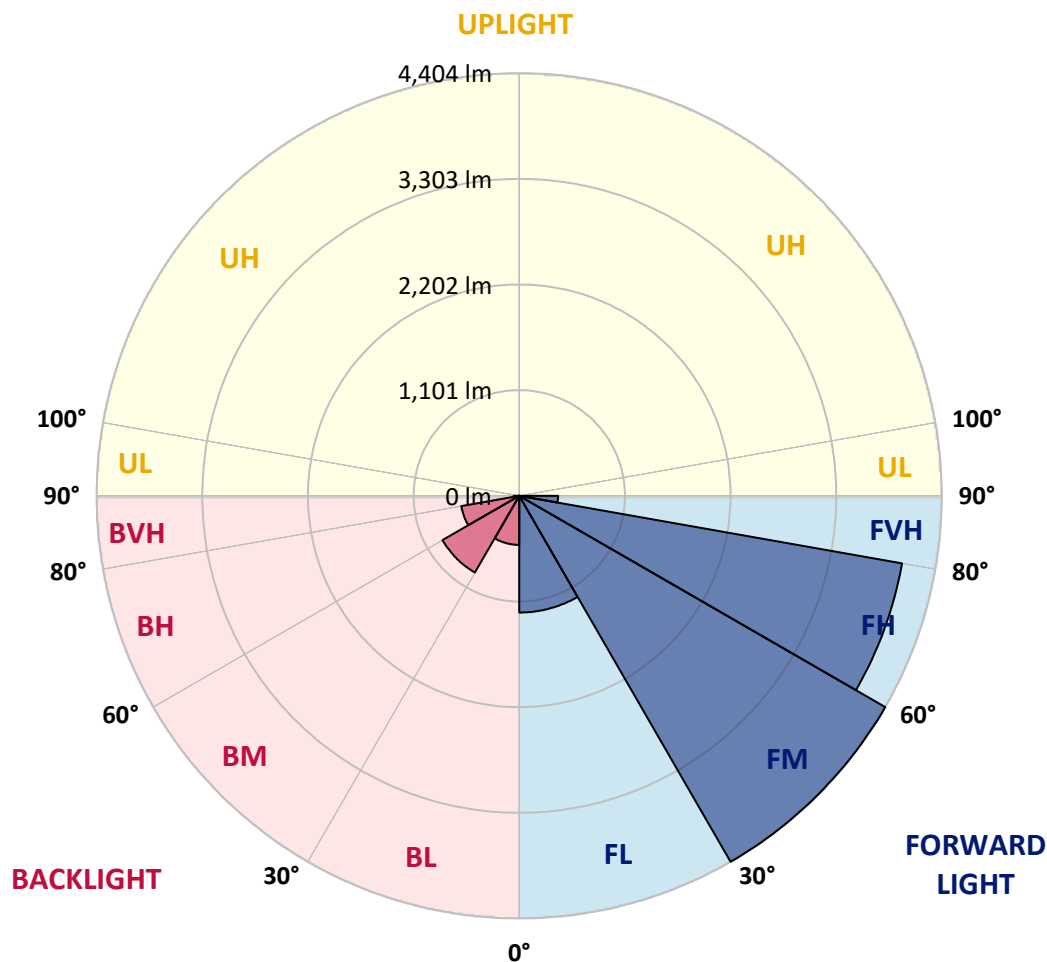
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.5	10.0			
FM	(30°-60°)	4404.5	36.2			
FH	(60°-80°)	4051.6	33.3			G2/5000
FVH	(80°-90°)	404.2	3.3			G3/500
BL	(0°-30°)	511.4	4.2	B2/1000		
BM	(30°-60°)	923.1	7.6	B1/1000		
BH	(60°-80°)	613.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	57.9	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°	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6
2.5°	3976.1	3941.1	3888.0	3834.9	3795.4	3755.5	3710.2	3664.9	3613.2	3561.1	3530.4
5°	3910.4	3813.0	3686.3	3559.7	3475.9	3392.1	3297.1	3202.1	3108.1	3014.1	2963.5
7.5°	3614.2	3468.1	3303.5	3138.8	3017.0	2894.8	2763.3	2631.3	2514.4	2397.0	2324.4
10°	3322.9	3147.6	2958.6	2769.1	2613.2	2457.4	2325.4	2192.9	2104.7	2016.6	1949.8
12.5°	3114.0	2919.6	2711.6	2503.2	2347.3	2191.4	2107.6	2023.9	1950.8	1877.7	1800.8
15°	3031.2	2811.5	2598.6	2385.3	2243.5	2101.8	2008.8	1915.2	1817.3	1718.9	1624.4
17.5°	3104.2	2847.0	2615.7	2384.3	2198.7	2013.1	1883.1	1752.6	1623.5	1494.4	1384.8
20°	3332.2	3003.9	2701.4	2398.4	2151.5	1904.5	1730.1	1555.3	1389.7	1224.1	1099.9
22.5°	3652.2	3217.7	2822.7	2427.7	2108.6	1789.1	1570.4	1351.2	1155.4	959.6	837.8
25°	4040.9	3501.2	2997.6	2493.4	2091.1	1688.3	1419.4	1150.5	944.0	737.0	650.3
27.5°	4450.6	3839.3	3214.8	2589.9	2094.0	1598.1	1292.3	985.9	799.8	613.7	554.3
30°	4792.0	4225.5	3468.1	2710.2	2105.2	1500.2	1172.4	844.6	691.2	537.7	499.3
32.5°	5104.2	4494.9	3659.0	2822.7	2117.9	1412.6	1079.9	746.7	621.5	495.9	464.2
35°	5426.7	4734.0	3792.5	2850.5	2096.0	1341.0	1016.6	692.2	576.7	460.8	434.0
37.5°	5781.8	4992.7	3921.1	2849.0	2058.9	1268.9	967.4	665.4	547.5	429.1	409.6
40°	6177.8	5278.6	4060.4	2842.2	2025.3	1208.0	930.8	653.2	531.4	409.2	392.6
42.5°	6565.0	5551.4	4190.0	2828.5	1998.0	1167.1	894.8	622.5	516.8	410.6	387.2
45°	6855.8	5789.6	4302.5	2814.9	1977.6	1140.3	866.5	592.8	503.2	413.5	383.8
47.5°	7076.5	6028.7	4427.2	2825.1	1975.6	1126.2	846.6	567.0	477.3	387.2	375.1
50°	7357.0	6316.1	4608.9	2901.6	2002.4	1103.3	823.2	542.6	452.5	362.4	379.0
52.5°	7706.3	6726.2	4890.4	3054.1	2058.4	1062.8	786.2	509.5	422.3	334.6	360.4
55°	8219.2	7251.8	5250.4	3248.4	2126.2	1003.4	730.1	456.4	382.4	307.8	330.7
57.5°	8679.5	7782.7	5595.7	3408.2	2168.5	928.4	659.5	390.6	337.6	284.5	297.6
60°	8884.5	8056.5	5757.4	3457.9	2143.2	828.5	580.1	331.2	298.1	265.0	262.5
62.5°	8804.7	7882.6	5598.1	3313.7	2019.5	725.3	510.0	294.7	269.8	244.5	239.2
65°	8570.9	7336.1	5152.0	2967.8	1810.5	653.2	465.7	278.1	250.4	222.6	216.8
67.5°	8110.1	6558.2	4519.7	2481.2	1545.1	608.9	440.3	271.8	238.2	204.1	197.3
70°	7283.0	5622.0	3791.5	1960.5	1271.3	581.6	423.8	266.0	225.0	183.6	177.3
72.5°	5982.0	4507.5	3027.8	1547.5	1062.8	578.2	421.8	265.5	214.3	163.2	157.3
75°	4283.0	3423.8	2311.2	1198.2	870.4	542.6	400.4	258.2	199.7	140.8	135.4
77.5°	2882.1	2369.7	1606.4	842.7	645.9	449.1	336.6	224.1	171.0	117.9	112.5
80°	1850.9	1640.0	1076.5	512.9	418.9	324.9	240.6	156.4	124.7	92.5	88.2
82.5°	1358.0	1220.7	748.2	275.7	232.8	189.5	147.1	104.7	85.2	65.8	63.8
85°	863.1	951.8	550.9	150.0	122.7	95.5	78.9	62.3	49.2	36.0	36.0
87.5°	167.6	231.9	152.5	72.6	53.1	33.6	28.7	23.4	13.2	2.4	2.9
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°	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6
2.5°	3499.3	3465.7	3432.0	3394.1	3355.6	3320.0	3284.0	3244.5	3251.8	3221.6	3191.4
5°	2912.8	2859.2	2805.2	2758.4	2711.6	2671.2	2630.3	2593.8	2625.4	2604.0	2582.6
7.5°	2251.3	2185.1	2118.4	2062.3	2006.3	1963.0	1919.1	1888.9	1920.1	1916.2	1912.3
10°	1883.1	1818.8	1754.0	1692.2	1630.3	1577.7	1524.6	1479.8	1472.0	1449.6	1426.7
12.5°	1723.3	1635.2	1546.5	1481.7	1416.9	1354.1	1291.3	1238.7	1214.8	1177.8	1140.3
15°	1530.0	1425.7	1321.5	1247.9	1173.9	1113.0	1051.6	1006.3	991.2	962.5	933.8
17.5°	1275.2	1161.2	1047.2	972.7	897.7	849.0	799.8	769.6	769.6	761.3	753.0
20°	975.6	873.8	772.0	715.0	658.1	632.2	605.9	593.3	597.2	597.7	597.7
22.5°	715.5	653.2	590.8	567.9	544.6	535.3	526.1	520.7	522.6	523.1	523.6
25°	563.6	539.7	515.3	503.7	491.5	485.6	479.8	477.8	482.2	482.7	482.7
27.5°	494.9	480.3	465.2	457.9	450.1	447.6	445.2	441.8	446.2	446.2	445.7
30°	460.3	444.7	429.1	419.9	410.6	411.6	412.1	411.1	414.0	416.0	417.4
32.5°	432.0	417.0	401.9	392.6	382.9	381.4	379.9	379.0	385.3	388.7	392.1
35°	406.7	390.2	373.6	364.8	356.1	352.7	349.2	346.8	352.7	357.0	361.4
37.5°	389.7	372.6	355.1	346.8	338.0	333.7	329.3	326.4	328.8	330.7	332.7
40°	376.0	358.5	340.5	330.7	321.0	316.6	312.2	309.8	311.3	311.7	312.2
42.5°	363.4	346.3	329.3	318.6	307.4	302.0	296.6	293.7	294.7	295.7	296.2
45°	354.1	337.1	319.5	306.9	293.7	287.9	282.0	278.6	279.1	279.1	279.1
47.5°	362.9	338.0	312.7	298.1	283.0	276.2	269.4	266.0	265.0	264.0	263.0
50°	395.0	352.7	309.8	291.3	272.3	265.0	257.2	253.3	250.9	249.9	248.9
52.5°	385.8	349.2	312.2	288.4	264.0	255.2	246.5	240.1	237.7	236.2	234.8
55°	353.1	330.2	306.9	278.1	249.4	241.6	233.3	228.9	224.5	223.6	222.6
57.5°	310.3	301.0	291.8	262.5	233.3	226.0	218.2	215.3	211.4	211.4	210.9
60°	259.6	273.3	286.9	253.3	219.2	210.9	202.6	200.2	198.7	198.2	197.8
62.5°	233.3	255.7	277.6	242.1	206.0	197.3	188.5	185.6	185.1	185.6	185.6
65°	210.9	217.7	224.5	208.0	191.4	182.7	173.4	170.5	171.5	172.9	174.4
67.5°	190.5	189.0	187.5	181.7	175.4	168.0	160.3	157.3	157.8	159.8	161.7
70°	171.0	169.0	166.6	162.2	157.8	151.5	145.2	143.2	142.7	145.2	147.1
72.5°	151.5	149.0	146.1	142.7	138.8	133.5	128.1	126.6	127.1	128.6	130.1
75°	130.1	128.1	125.7	122.7	119.3	114.5	109.6	108.6	109.6	111.1	112.5
77.5°	106.7	106.2	105.2	102.8	100.3	95.0	89.1	88.7	90.1	91.6	92.5
80°	83.3	83.8	84.3	82.3	80.4	74.5	68.2	67.7	69.2	70.6	72.1
82.5°	61.4	62.8	63.8	61.4	58.9	52.1	45.3	44.3	49.2	50.7	52.1
85°	35.6	37.5	39.5	37.5	35.6	28.7	21.9	21.4	25.8	28.3	30.7
87.5°	2.9	3.9	4.9	4.4	3.9	1.9	0.0	0.0	0.5	2.4	4.4
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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 CATALOG NUMBER: GLEON-SA3B-830-U-SLR

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: P320797

CATALOG NUMBER: GLEON-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6
2.5°	3172.4	3153.4	3147.6	3141.7	3120.3	3098.4	3120.8	3142.7	3152.0	3161.2	3137.4
5°	2579.6	2576.2	2576.2	2575.7	2556.3	2536.3	2551.4	2566.0	2533.4	2500.7	2497.3
7.5°	1933.3	1954.2	1971.3	1987.8	1981.5	1975.2	1989.3	2003.4	1962.0	1920.1	1899.7
10°	1431.6	1435.9	1454.5	1473.0	1477.3	1481.2	1498.8	1515.8	1483.7	1451.5	1437.4
12.5°	1116.9	1093.5	1096.0	1097.9	1106.7	1115.0	1133.5	1151.5	1138.3	1124.7	1126.2
15°	904.5	874.8	862.6	850.0	859.7	869.5	882.6	895.3	895.8	895.8	908.4
17.5°	738.4	723.3	711.2	698.5	711.6	724.3	725.8	727.2	727.7	728.2	727.2
20°	605.0	612.3	608.4	604.5	609.4	613.7	617.6	621.0	616.7	611.8	599.6
22.5°	530.4	536.8	541.6	546.0	554.3	562.1	558.2	553.8	545.1	535.8	526.5
25°	487.1	491.5	496.3	501.2	508.0	514.4	507.5	500.7	494.4	488.1	481.7
27.5°	450.6	454.9	459.3	463.2	469.6	475.4	469.1	462.7	457.4	452.0	447.1
30°	420.8	423.8	427.2	430.6	436.4	441.8	436.4	430.6	426.7	422.3	418.9
32.5°	395.5	398.4	399.9	401.4	406.7	412.1	408.2	404.3	400.9	397.5	395.0
35°	367.8	373.6	374.6	375.5	380.9	386.3	383.8	380.9	377.0	373.1	368.7
37.5°	339.5	346.3	350.2	353.6	359.0	364.3	361.9	359.5	354.1	348.8	341.0
40°	315.6	318.6	325.9	332.7	341.5	349.7	344.9	339.5	331.2	322.9	319.0
42.5°	295.7	295.2	302.0	308.8	322.0	334.6	325.9	317.1	309.3	301.5	300.5
45°	278.1	276.7	280.1	283.5	297.6	311.3	302.5	293.2	288.8	284.5	284.5
47.5°	262.5	261.6	264.0	266.0	274.7	283.0	278.6	274.2	271.8	269.4	269.8
50°	248.4	247.4	249.9	251.8	255.2	258.2	259.1	259.6	258.2	256.7	257.7
52.5°	235.3	235.3	236.2	236.7	241.1	245.5	245.5	245.0	245.0	245.0	246.0
55°	224.1	225.0	225.0	225.0	231.9	238.2	236.2	234.3	234.8	234.8	235.8
57.5°	212.9	214.3	215.3	216.3	223.1	229.9	228.0	226.0	226.0	226.0	226.5
60°	200.2	202.1	204.1	206.0	212.9	219.7	217.7	215.3	215.8	216.3	216.8
62.5°	188.0	190.0	191.9	193.9	200.7	207.5	205.6	203.1	204.6	205.6	205.6
65°	176.3	177.8	179.7	181.7	188.0	194.3	192.4	190.5	192.4	193.9	194.8
67.5°	163.2	164.1	166.1	168.0	174.4	180.7	178.8	176.3	178.8	180.7	182.7
70°	148.1	149.0	151.5	153.4	159.8	166.1	163.7	161.2	163.7	166.1	168.0
72.5°	131.5	132.5	134.9	136.9	144.2	151.5	148.6	145.6	148.6	151.5	152.5
75°	113.5	114.5	117.4	119.8	127.1	134.4	132.0	129.1	131.5	134.0	134.4
77.5°	94.0	95.5	99.4	103.3	109.1	115.0	113.5	112.0	113.5	115.0	115.0
80°	73.6	75.0	79.9	84.3	87.7	91.1	91.6	92.1	92.5	93.0	92.5
82.5°	54.6	56.5	60.9	65.3	65.3	65.3	69.2	72.6	72.6	72.1	71.6
85°	33.6	36.0	39.9	43.8	41.4	39.0	45.3	51.1	51.1	50.7	49.7
87.5°	6.8	9.3	13.2	16.6	14.1	11.7	18.0	24.4	24.8	24.8	23.9
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: P320797
 CATALOG NUMBER: GLEON-SA3B-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: P320797

CATALOG NUMBER: GLEON-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6
2.5°	3113.0	3151.0	3188.5	3198.2	3212.9	3219.2	3225.0	3272.8	3320.0	3375.5	3431.1
5°	2493.4	2521.7	2549.9	2554.3	2569.4	2577.2	2585.0	2643.0	2700.4	2777.9	2855.3
7.5°	1879.2	1886.0	1892.8	1891.9	1904.5	1921.6	1938.1	2000.0	2061.4	2144.7	2227.5
10°	1423.3	1438.9	1454.0	1468.1	1495.9	1528.0	1559.7	1623.0	1686.3	1768.6	1850.5
12.5°	1127.6	1145.6	1163.2	1178.8	1210.9	1253.8	1296.1	1372.1	1448.1	1546.5	1644.4
15°	920.6	919.1	917.7	928.4	956.6	1003.4	1049.7	1130.1	1210.4	1318.6	1426.2
17.5°	726.3	718.9	711.6	719.9	746.2	784.7	822.7	890.9	958.6	1063.3	1168.0
20°	587.4	582.6	577.7	585.5	602.0	618.1	634.2	683.4	732.1	817.3	902.1
22.5°	516.8	516.3	515.3	519.7	527.5	535.8	543.6	567.5	590.8	645.9	700.4
25°	475.4	474.9	474.4	476.4	482.7	489.0	495.4	511.0	526.5	552.8	579.2
27.5°	442.3	441.3	440.3	440.8	442.3	452.0	461.3	468.6	475.4	493.4	511.0
30°	415.5	415.0	414.5	414.5	413.1	416.5	419.9	431.1	441.8	460.3	478.8
32.5°	392.6	390.2	387.7	382.4	379.0	383.8	388.7	400.4	412.1	429.1	446.2
35°	363.9	357.5	350.7	347.8	348.3	353.1	358.0	369.7	380.9	399.4	417.4
37.5°	332.7	330.7	328.3	327.8	329.3	334.1	339.0	349.2	359.0	377.5	395.5
40°	315.1	314.2	313.2	312.2	313.2	318.1	322.9	332.7	341.9	360.0	377.5
42.5°	299.6	299.1	298.6	298.6	299.1	304.4	309.8	319.5	328.8	344.9	360.9
45°	284.5	284.9	284.9	285.9	287.4	292.7	297.6	308.3	319.0	334.6	350.2
47.5°	270.3	271.8	272.8	275.2	276.7	282.5	287.9	299.6	311.3	330.7	349.7
50°	258.2	259.6	260.6	262.5	266.4	273.3	280.1	294.2	307.8	340.5	372.6
52.5°	247.0	248.4	249.9	251.8	256.7	264.5	272.3	289.8	306.9	344.9	382.9
55°	236.7	238.2	239.2	242.1	247.0	253.8	260.1	281.5	303.0	330.7	358.5
57.5°	227.0	228.4	229.4	231.4	233.8	241.1	247.9	270.8	293.7	313.2	332.2
60°	216.8	217.7	218.2	218.2	220.2	228.4	236.7	266.0	294.7	291.3	287.4
62.5°	205.6	206.5	207.0	205.6	208.0	216.8	225.5	263.5	301.5	278.1	254.7
65°	195.3	194.8	194.3	192.9	195.8	204.6	212.9	231.9	250.9	241.6	232.3
67.5°	184.1	182.7	181.2	179.2	182.2	190.0	197.3	203.6	209.9	210.9	211.9
70°	170.0	168.0	166.1	165.6	167.1	173.4	179.7	184.1	188.0	190.0	191.4
72.5°	153.4	152.0	150.5	149.5	150.0	155.4	160.3	164.1	168.0	169.5	170.5
75°	134.9	134.9	134.4	131.5	131.5	135.9	139.8	143.2	146.6	148.6	150.5
77.5°	115.0	115.4	115.4	111.5	111.1	115.4	119.3	122.3	124.7	126.6	128.1
80°	92.1	91.1	90.1	87.7	86.7	92.1	96.9	99.4	101.3	101.8	101.8
82.5°	70.6	68.7	66.2	60.9	61.4	67.2	72.6	74.5	76.5	76.5	76.5
85°	48.2	44.3	39.9	35.6	36.0	42.4	48.2	50.2	52.1	53.1	53.6
87.5°	22.9	19.0	14.6	11.2	11.2	16.6	21.4	22.4	23.4	25.3	27.3
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: P320797
 CATALOG NUMBER: GLEON-SA3B-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: P320797

CATALOG NUMBER: GLEON-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6
2.5°	3473.4	3515.3	3558.7	3602.0	3651.7	3701.4	3759.4	3816.8	3866.0	3915.2	3956.2
5°	2922.1	2988.8	3067.2	3145.6	3245.5	3345.3	3467.6	3589.4	3698.0	3806.6	3932.8
7.5°	2314.7	2401.4	2503.6	2605.9	2735.0	2864.1	3022.4	3180.7	3334.1	3487.1	3680.9
10°	1941.5	2032.6	2133.5	2233.8	2365.3	2496.3	2663.9	2831.0	3003.4	3175.3	3394.5
12.5°	1745.7	1846.6	1935.2	2023.9	2130.5	2236.7	2398.9	2561.1	2763.8	2965.9	3176.8
15°	1536.8	1646.9	1753.0	1859.2	1975.6	2091.6	2249.4	2407.2	2628.8	2850.5	3093.0
17.5°	1284.0	1399.9	1529.5	1658.5	1810.5	1962.0	2164.1	2366.3	2628.8	2890.9	3176.8
20°	1020.5	1138.8	1293.7	1448.6	1637.6	1826.1	2088.2	2350.2	2703.8	3057.0	3421.8
22.5°	805.2	909.4	1078.4	1247.0	1465.2	1683.4	2019.5	2355.1	2817.3	3279.1	3771.5
25°	652.7	726.3	892.4	1058.0	1309.8	1561.6	1977.6	2393.1	2982.5	3571.4	4182.2
27.5°	559.2	607.4	762.3	916.7	1191.9	1466.6	1960.5	2454.0	3191.9	3929.9	4628.8
30°	512.4	546.0	677.1	807.6	1087.2	1366.8	1940.1	2513.4	3393.6	4273.3	4978.1
32.5°	473.5	500.2	612.3	723.8	996.6	1269.4	1900.6	2531.4	3534.3	4537.3	5273.7
35°	440.3	462.7	560.2	657.6	925.5	1193.4	1834.4	2475.4	3622.5	4769.6	5581.6
37.5°	413.5	431.1	521.2	611.3	864.1	1116.9	1758.9	2400.9	3700.9	5001.0	5927.9
40°	392.6	407.7	492.0	576.2	805.6	1035.1	1694.1	2352.7	3809.1	5265.5	6293.7
42.5°	380.9	400.4	466.6	532.4	750.1	967.9	1642.0	2316.1	3909.4	5502.2	6613.7
45°	378.0	405.7	453.5	501.2	708.7	916.2	1595.7	2274.7	3974.2	5673.6	6854.8
47.5°	373.1	396.0	443.3	490.5	688.3	885.5	1570.9	2255.7	4039.0	5821.7	7055.0
50°	376.0	379.0	435.0	490.5	685.3	880.2	1599.1	2318.1	4179.2	6039.9	7284.0
52.5°	370.7	358.0	419.4	480.8	684.9	888.9	1680.5	2472.0	4439.8	6407.2	7531.9
55°	342.4	325.9	390.2	454.5	674.6	894.3	1777.4	2660.0	4789.6	6918.6	7977.6
57.5°	317.6	302.5	357.0	411.1	643.4	875.8	1877.2	2878.2	5159.3	7439.8	8479.8
60°	284.5	281.1	320.0	359.0	595.2	831.0	1959.6	3087.7	5407.7	7727.2	8673.1
62.5°	257.2	259.1	287.9	316.6	534.8	752.6	1986.8	3220.6	5400.9	7581.1	8478.3
65°	236.2	239.6	267.9	296.2	483.2	670.2	1897.2	3123.7	5127.6	7131.0	8093.0
67.5°	215.8	219.7	253.3	286.4	437.4	587.9	1673.2	2757.9	4636.1	6513.9	7603.0
70°	196.3	201.2	237.7	274.2	404.3	533.9	1384.3	2234.8	4020.9	5806.6	7035.5
72.5°	175.4	180.2	219.2	258.2	383.3	508.0	1128.6	1748.7	3263.0	4776.9	6018.0
75°	153.9	157.3	199.7	241.6	354.6	467.6	885.5	1303.0	2497.3	3691.7	4545.5
77.5°	132.5	136.9	172.4	207.5	301.0	394.1	667.3	940.6	1832.4	2723.8	3161.2
80°	105.7	109.6	134.9	159.8	232.3	304.4	458.8	613.2	1261.1	1908.9	2155.4
82.5°	80.9	85.2	102.3	118.9	165.6	212.4	278.1	343.9	837.8	1331.2	1351.7
85°	55.5	57.0	69.2	80.9	102.3	123.7	159.3	194.8	554.3	913.8	761.3
87.5°	27.8	27.8	36.0	44.3	55.0	65.8	84.3	102.3	177.3	252.3	145.2
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: P320797
 CATALOG NUMBER: GLEON-SA3B-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: P320797

CATALOG NUMBER: GLEON-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6
2.5°	4008.3	4043.8	4079.9	4107.2	4134.9	4174.9	4214.8	4222.1	4229.9	4214.3	4198.7
5°	4059.9	4167.6	4275.7	4375.5	4475.4	4535.3	4595.2	4607.4	4619.6	4582.1	4544.1
7.5°	3868.5	4056.0	4243.5	4415.5	4587.4	4691.7	4796.4	4819.8	4843.6	4782.3	4720.9
10°	3612.8	3843.1	4073.5	4300.0	4526.5	4678.0	4829.5	4859.7	4889.9	4813.4	4737.0
12.5°	3415.0	3661.0	3907.0	4145.6	4384.8	4541.6	4698.5	4736.0	4773.5	4718.0	4662.0
15°	3354.1	3585.5	3816.8	4024.8	4233.3	4361.4	4490.0	4505.1	4520.7	4511.9	4503.2
17.5°	3464.7	3673.6	3883.1	3996.1	4109.6	4160.7	4212.4	4228.9	4246.0	4267.9	4290.3
20°	3732.6	3879.7	4027.3	4022.4	4017.0	3992.2	3966.9	3962.5	3958.1	4020.9	4084.3
22.5°	4132.5	4190.9	4249.9	4113.0	3976.1	3892.8	3809.1	3792.5	3775.4	3842.2	3909.4
25°	4566.5	4555.8	4544.6	4284.0	4022.9	3864.1	3705.3	3686.8	3668.3	3725.3	3782.8
27.5°	4996.1	4926.0	4855.8	4501.7	4147.6	3917.2	3686.8	3668.3	3649.8	3700.4	3751.1
30°	5311.2	5198.7	5086.2	4685.3	4284.5	4010.7	3737.0	3706.8	3676.1	3738.4	3800.8
32.5°	5557.2	5406.2	5255.2	4834.4	4413.5	4117.4	3821.2	3774.0	3726.7	3810.0	3893.3
35°	5802.7	5590.3	5377.5	4967.4	4556.7	4243.5	3929.9	3871.9	3813.9	3928.4	4042.9
37.5°	6111.5	5806.6	5501.2	5116.9	4732.6	4432.5	4132.0	4072.6	4013.1	4158.8	4304.9
40°	6446.7	6039.9	5633.2	5280.6	4927.9	4694.1	4459.8	4403.3	4346.3	4523.6	4700.9
42.5°	6725.3	6257.2	5789.1	5477.8	5166.1	5001.5	4836.3	4835.8	4834.9	5014.6	5194.3
45°	6951.8	6438.4	5924.5	5670.2	5415.5	5329.8	5244.0	5312.7	5381.4	5543.6	5706.3
47.5°	7120.8	6590.3	6059.4	5890.4	5721.4	5734.0	5746.7	5886.5	6026.3	6130.5	6235.3
50°	7230.9	6728.2	6225.0	6172.9	6120.8	6234.3	6348.3	6508.5	6669.3	6740.4	6811.5
52.5°	7391.1	6915.2	6438.9	6497.3	6555.8	6787.6	7019.5	7181.7	7343.9	7370.2	7397.0
55°	7761.8	7259.1	6756.0	6868.0	6980.5	7320.5	7661.0	7787.6	7914.3	7924.0	7933.7
57.5°	8288.3	7740.9	7193.4	7314.2	7435.0	7827.6	8220.6	8357.0	8493.9	8474.9	8455.4
60°	8682.4	8198.2	7713.6	7835.3	7957.1	8340.0	8722.8	8879.7	9037.0	8995.1	8953.2
62.5°	8706.8	8448.1	8189.0	8299.1	8409.6	8784.7	9159.8	9321.0	9482.2	9409.1	9336.1
65°	8319.5	8435.4	8551.4	8587.9	8624.4	8974.2	9324.4	9447.6	9571.3	9534.3	9497.3
67.5°	7786.2	8213.3	8641.0	8567.4	8493.9	8658.0	8822.2	8949.3	9076.5	9055.5	9034.1
70°	7253.8	7824.1	8394.5	8033.1	7671.2	7603.5	7535.8	7672.7	7810.0	7725.3	7640.0
72.5°	6347.3	6955.2	7563.6	6897.7	6231.8	6000.5	5769.1	5943.0	6116.9	5982.0	5846.6
75°	4982.5	5654.2	6326.3	5531.9	4737.4	4428.6	4119.8	4269.4	4418.9	4326.3	4233.3
77.5°	3709.2	4371.2	5033.1	4225.5	3417.4	3188.0	2958.1	3002.4	3047.2	3031.7	3015.6
80°	2515.8	2977.1	3438.9	2901.1	2363.4	2380.9	2398.9	2378.0	2356.5	2387.7	2418.9
82.5°	1605.5	1961.5	2318.1	2032.6	1747.2	1910.9	2074.5	1994.2	1913.3	1943.0	1973.2
85°	916.2	1264.5	1613.2	1503.7	1393.6	1489.0	1585.0	1460.3	1335.6	1390.2	1445.2
87.5°	241.6	699.5	1157.8	1051.1	944.5	820.7	697.0	531.9	366.8	535.8	704.8
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: P320797
 CATALOG NUMBER: GLEON-SA3B-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: P320797

CATALOG NUMBER: GLEON-SA3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6	3711.6
2.5°	4190.4	4182.2	4152.5	4122.3	4077.4	4040.4	3976.1
5°	4491.5	4438.9	4348.3	4257.2	4155.9	4039.4	3910.4
7.5°	4598.1	4474.9	4301.0	4126.6	3969.8	3785.7	3614.2
10°	4552.8	4368.2	4142.2	3915.7	3725.3	3513.4	3322.9
12.5°	4466.1	4269.8	4020.9	3771.5	3554.8	3327.3	3114.0
15°	4346.8	4190.0	3956.6	3723.3	3505.1	3284.0	3031.2
17.5°	4216.3	4141.7	3973.2	3804.2	3615.2	3400.9	3104.2
20°	4111.1	4138.3	4071.1	4003.9	3852.4	3665.4	3332.2
22.5°	4039.9	4171.0	4222.6	4274.7	4183.6	4037.5	3652.2
25°	4000.0	4217.2	4390.2	4563.6	4523.1	4410.6	4040.9
27.5°	4017.5	4284.0	4552.4	4821.2	4858.7	4827.6	4450.6
30°	4070.1	4340.0	4666.8	4994.1	5143.7	5185.6	4792.0
32.5°	4157.8	4422.3	4778.4	5134.9	5360.9	5494.4	5104.2
35°	4290.3	4537.7	4908.9	5280.1	5572.3	5815.9	5426.7
37.5°	4517.8	4730.6	5073.1	5416.0	5794.9	6160.7	5781.8
40°	4850.9	5001.5	5290.8	5580.6	6057.5	6551.4	6177.8
42.5°	5271.3	5348.7	5578.2	5807.6	6331.7	6906.0	6565.0
45°	5726.7	5747.2	5891.4	6036.0	6548.9	7147.6	6855.8
47.5°	6165.1	6095.0	6152.4	6209.9	6715.5	7320.0	7076.5
50°	6616.2	6420.8	6390.6	6360.4	6882.1	7523.1	7357.0
52.5°	7075.0	6753.0	6633.7	6513.9	7080.8	7792.5	7706.3
55°	7524.1	7114.5	6953.7	6793.0	7384.8	8121.3	8219.2
57.5°	7991.2	7527.0	7378.0	7228.9	7831.5	8537.7	8679.5
60°	8493.9	8034.1	7914.7	7794.9	8386.7	8987.8	8884.5
62.5°	8970.8	8605.4	8542.6	8479.3	8948.4	9333.6	8804.7
65°	9289.3	9080.8	9139.3	9198.2	9373.1	9419.9	8570.9
67.5°	9076.5	9118.8	9365.8	9613.2	9492.9	9163.6	8110.1
70°	7893.8	8148.1	8733.1	9318.5	9051.6	8477.3	7283.0
72.5°	6132.0	6417.9	7286.4	8155.4	7909.4	7206.0	5982.0
75°	4555.8	4878.7	5837.3	6795.9	6454.4	5390.2	4283.0
77.5°	3231.9	3448.1	4394.5	5341.4	4784.7	3587.9	2882.1
80°	2352.7	2286.4	2813.9	3341.4	3248.9	2373.1	1850.9
82.5°	1811.5	1649.8	1898.2	2146.6	2133.0	1646.9	1358.0
85°	1380.4	1315.6	1535.3	1755.0	1567.0	1115.4	863.1
87.5°	804.7	905.0	1163.7	1422.8	1067.7	338.5	167.6
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: P320797
 CATALOG NUMBER: GLEON-SA3B-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
 R_f: 81.5
 R_g: 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

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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

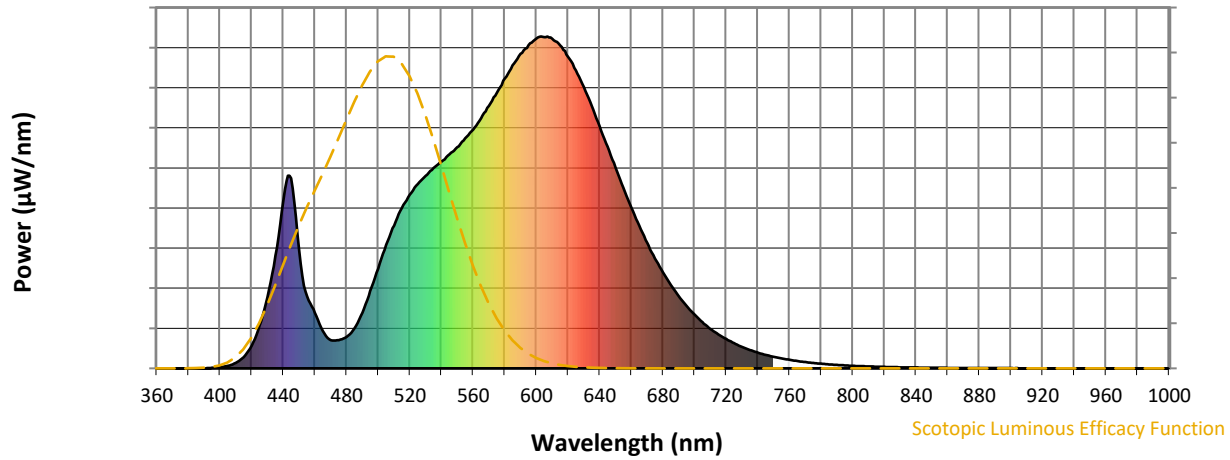


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

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

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

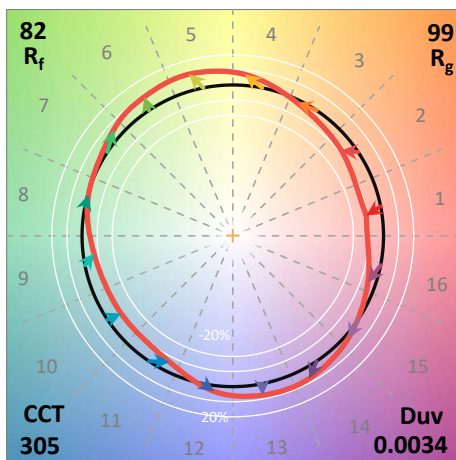
TM-30-18

Summary

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

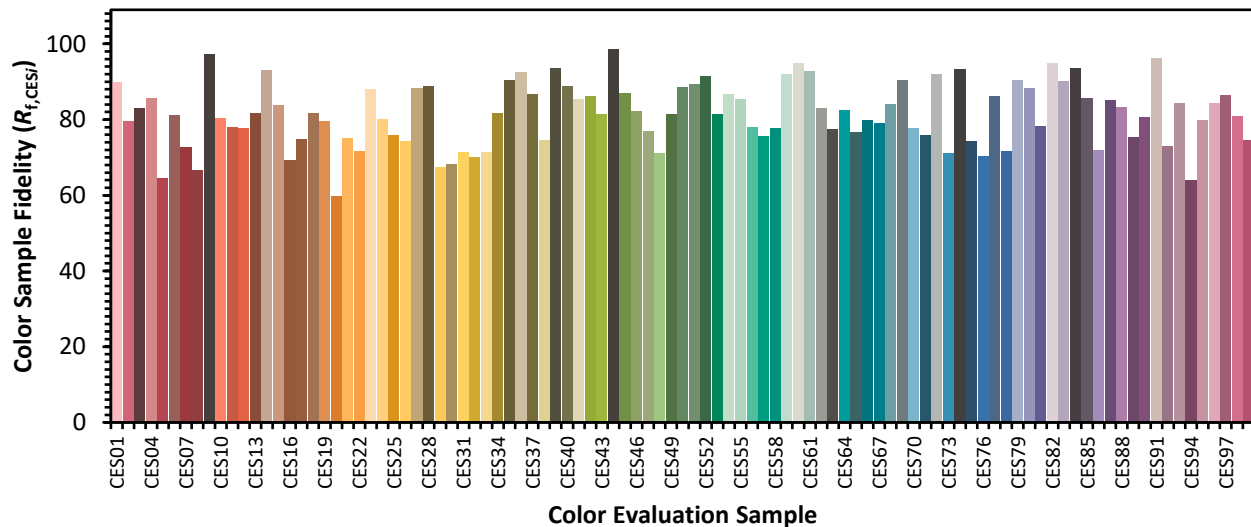


Color Vector Graphics



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)