

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: P320795

Luminaire Tested: **GLEON-SA1B-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320795
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-SA1B-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4180 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

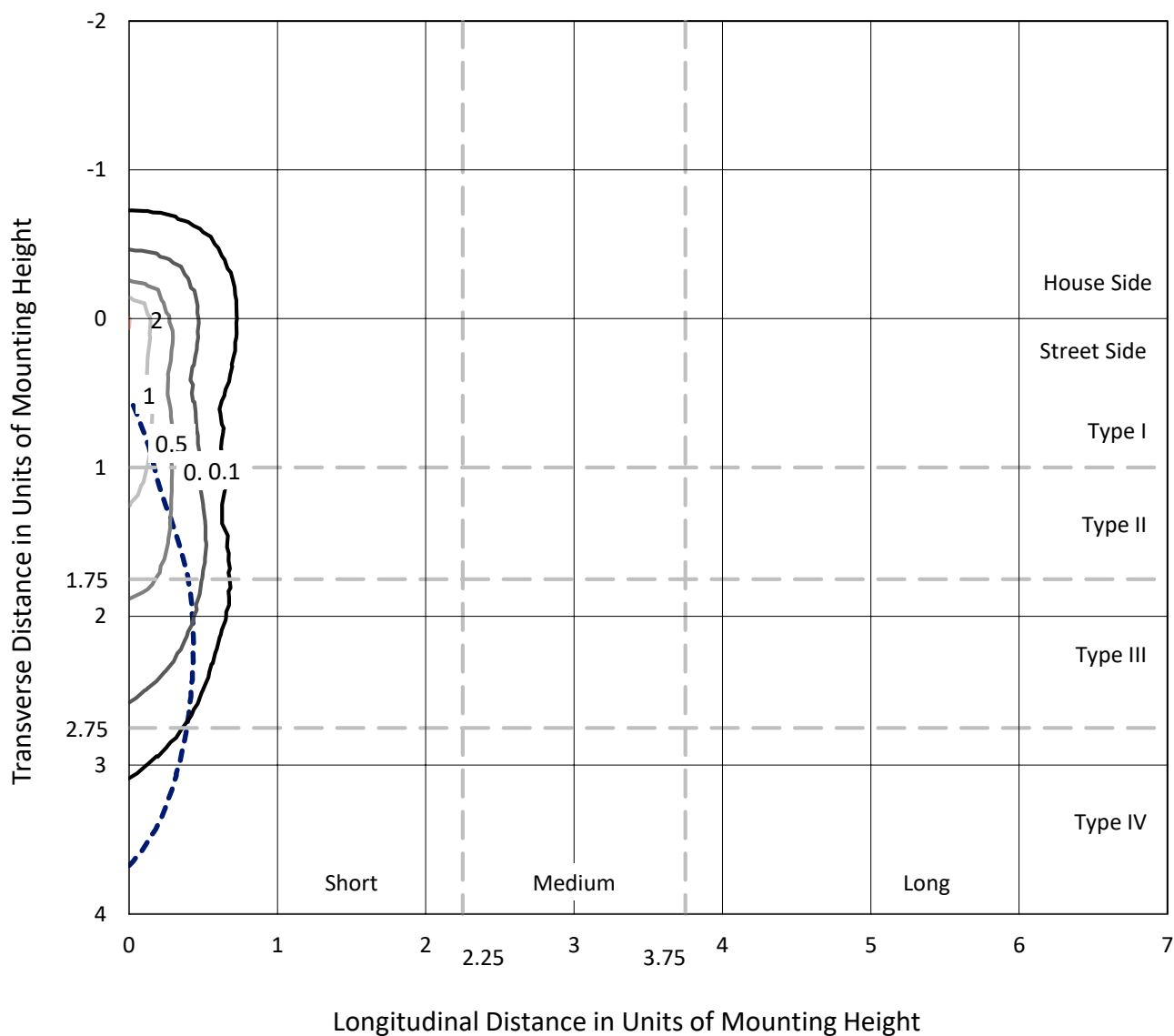
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320795
 CATALOG NUMBER: GLEON-SA1B-830-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

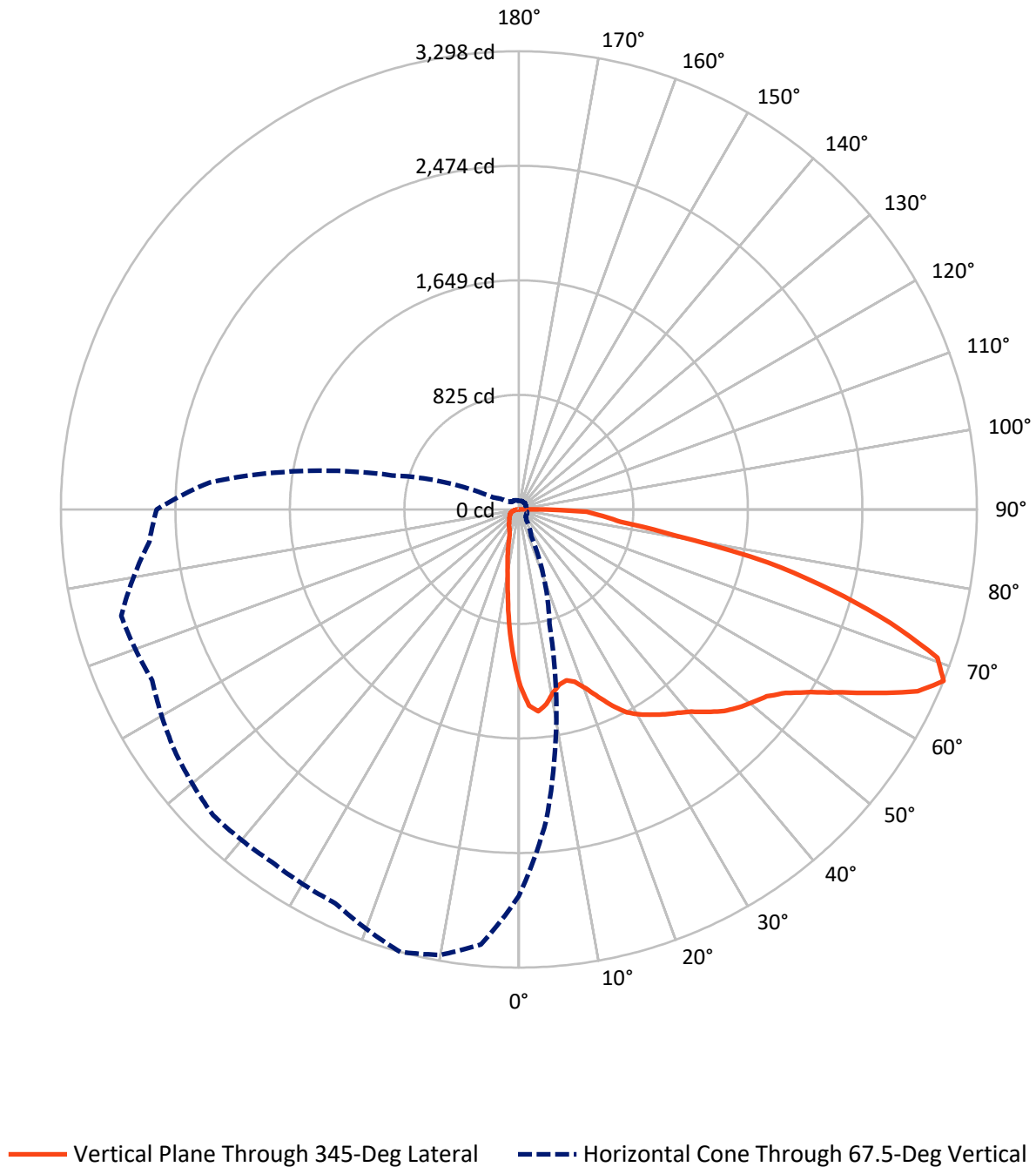
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P320795
CATALOG NUMBER: GLEON-SA1B-830-U-SLR

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	722.6	0.0	722.6
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	3457.4	0.0	3457.4
	% Fixture	82.7	0.0	82.7
Total	Lumens	4180.0	0.0	4180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	2.4
10°-20°	204.2	4.9
20°-30°	290.4	6.9
30°-40°	418.4	10.0
40°-50°	589.7	14.1
50°-60°	819.8	19.6
60°-70°	991.3	23.7
70°-80°	609.4	14.6
80°-90°	158.6	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°	4180.0	100.0
0°-180°	4180.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320795

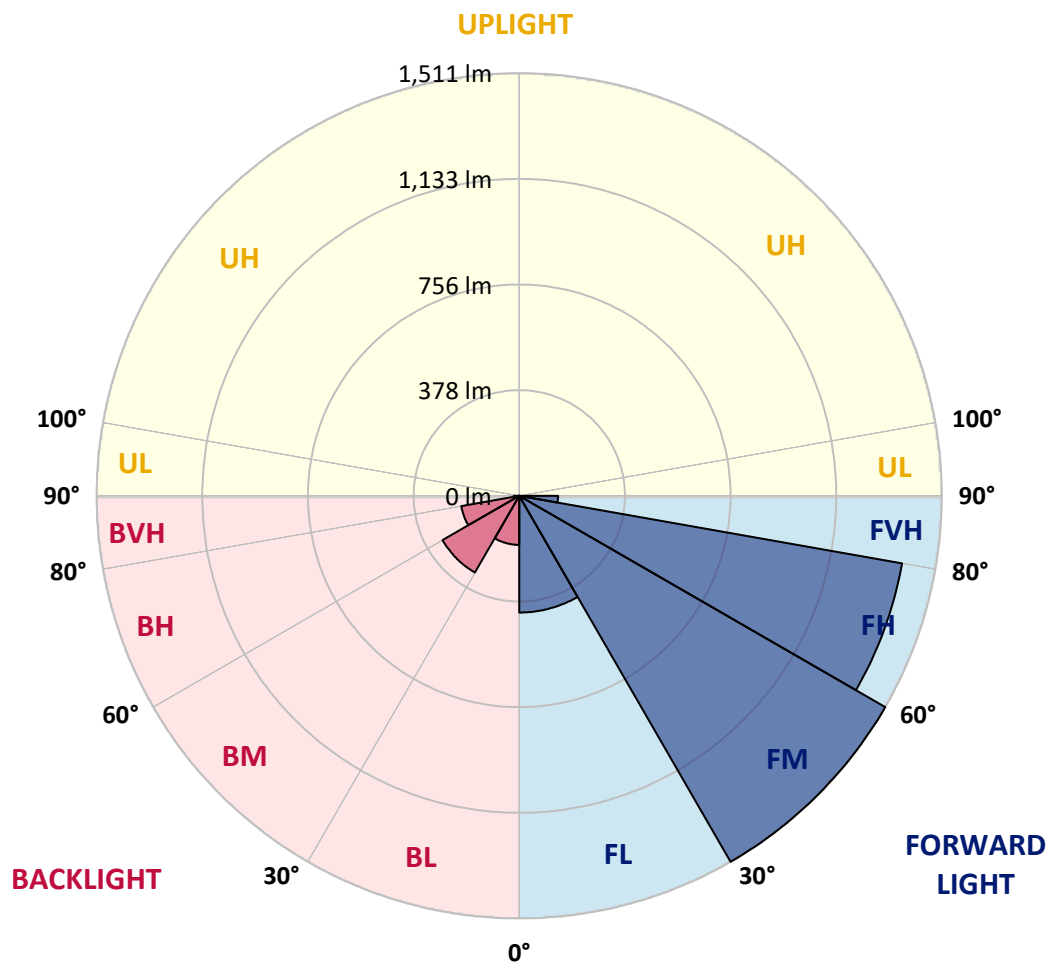
CATALOG NUMBER: GLEON-SA1B-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.4	10.0			
FM	(30°-60°)	1511.2	36.2			
FH	(60°-80°)	1390.1	33.3			G1/1800
FVH	(80°-90°)	138.7	3.3			G2/225
BL	(0°-30°)	175.4	4.2	B1/500		
BM	(30°-60°)	316.7	7.6	B1/1000		
BH	(60°-80°)	210.6	5.0	B1/500		G1/500
BVH	(80°-90°)	19.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





REPORT NUMBER: P320795

CATALOG NUMBER: GLEON-SA1B-830-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1364.2	1352.2	1334.0	1315.7	1302.2	1288.5	1273.0	1257.4	1239.7	1221.8	1211.3
5°	1341.7	1308.2	1264.8	1221.3	1192.6	1163.8	1131.2	1098.7	1066.4	1034.1	1016.8
7.5°	1240.0	1189.9	1133.4	1076.9	1035.2	993.2	948.1	902.8	862.7	822.4	797.5
10°	1140.1	1079.9	1015.1	950.1	896.6	843.1	797.8	752.4	722.1	691.9	669.0
12.5°	1068.4	1001.7	930.4	858.8	805.4	751.9	723.1	694.4	669.3	644.3	617.8
15°	1040.0	964.6	891.6	818.4	769.8	721.1	689.2	657.1	623.5	589.8	557.4
17.5°	1065.1	976.8	897.4	818.1	754.4	690.7	646.1	601.3	557.0	512.7	475.1
20°	1143.3	1030.6	926.9	822.9	738.2	653.4	593.6	533.6	476.8	420.0	377.4
22.5°	1253.1	1104.0	968.5	832.9	723.5	613.8	538.8	463.6	396.4	329.2	287.4
25°	1386.4	1201.3	1028.5	855.5	717.5	579.2	487.0	394.7	323.9	252.9	223.1
27.5°	1527.0	1317.3	1103.0	888.6	718.5	548.3	443.4	338.3	274.4	210.6	190.2
30°	1644.1	1449.8	1189.9	929.9	722.3	514.7	402.3	289.8	237.1	184.5	171.3
32.5°	1751.3	1542.2	1255.4	968.5	726.6	484.7	370.5	256.2	213.2	170.1	159.3
35°	1861.9	1624.3	1301.2	978.0	719.1	460.1	348.8	237.5	197.9	158.1	148.9
37.5°	1983.7	1713.0	1345.3	977.5	706.4	435.4	331.9	228.3	187.8	147.2	140.5
40°	2119.6	1811.1	1393.1	975.2	694.9	414.5	319.4	224.1	182.3	140.4	134.7
42.5°	2252.5	1904.7	1437.6	970.5	685.5	400.4	307.0	213.6	177.3	140.9	132.9
45°	2352.2	1986.4	1476.2	965.8	678.5	391.2	297.3	203.4	172.6	141.9	131.7
47.5°	2427.9	2068.5	1519.0	969.3	677.8	386.4	290.5	194.5	163.8	132.9	128.7
50°	2524.2	2167.1	1581.3	995.5	687.0	378.5	282.4	186.2	155.3	124.3	130.0
52.5°	2644.0	2307.8	1677.9	1047.9	706.3	364.7	269.7	174.8	144.9	114.8	123.7
55°	2820.0	2488.1	1801.4	1114.5	729.5	344.3	250.5	156.6	131.2	105.6	113.5
57.5°	2977.9	2670.3	1919.9	1169.3	744.0	318.5	226.3	134.0	115.8	97.6	102.1
60°	3048.3	2764.2	1975.4	1186.4	735.3	284.3	199.0	113.6	102.3	90.9	90.1
62.5°	3020.9	2704.5	1920.7	1136.9	692.9	248.8	175.0	101.1	92.6	83.9	82.1
65°	2940.7	2517.0	1767.6	1018.3	621.2	224.1	159.8	95.4	85.9	76.4	74.4
67.5°	2782.6	2250.1	1550.7	851.3	530.1	208.9	151.1	93.3	81.7	70.0	67.7
70°	2498.8	1928.9	1300.9	672.7	436.2	199.5	145.4	91.2	77.2	63.0	60.8
72.5°	2052.4	1546.5	1038.8	530.9	364.7	198.4	144.7	91.1	73.5	56.0	54.0
75°	1469.5	1174.7	793.0	411.1	298.6	186.2	137.4	88.6	68.5	48.3	46.5
77.5°	988.9	813.0	551.2	289.1	221.6	154.1	115.5	76.9	58.7	40.4	38.6
80°	635.1	562.7	369.3	176.0	143.7	111.5	82.6	53.6	42.8	31.8	30.2
82.5°	465.9	418.8	256.7	94.6	79.9	65.0	50.5	35.9	29.2	22.6	21.9
85°	296.1	326.6	189.0	51.5	42.1	32.8	27.1	21.4	16.9	12.4	12.4
87.5°	57.5	79.5	52.3	24.9	18.2	11.5	9.9	8.0	4.5	0.8	1.0
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-SA1B-830-U-SLR

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

REPORT NUMBER: P320795

CATALOG NUMBER: GLEON-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1200.6	1189.1	1177.5	1164.5	1151.3	1139.1	1126.7	1113.2	1115.7	1105.3	1095.0
5°	999.4	981.0	962.5	946.4	930.4	916.5	902.5	889.9	900.8	893.4	886.1
7.5°	772.4	749.7	726.8	707.6	688.4	673.5	658.5	648.1	658.8	657.5	656.1
10°	646.1	624.0	601.8	580.6	559.4	541.3	523.1	507.7	505.0	497.4	489.5
12.5°	591.3	561.0	530.6	508.4	486.2	464.6	443.0	425.0	416.8	404.1	391.2
15°	524.9	489.2	453.4	428.2	402.8	381.9	360.8	345.3	340.1	330.2	320.4
17.5°	437.5	398.4	359.3	333.7	308.0	291.3	274.4	264.1	264.1	261.2	258.4
20°	334.7	299.8	264.9	245.3	225.8	216.9	207.9	203.6	204.9	205.1	205.1
22.5°	245.5	224.1	202.7	194.9	186.8	183.7	180.5	178.7	179.3	179.5	179.7
25°	193.4	185.2	176.8	172.8	168.6	166.6	164.6	163.9	165.5	165.6	165.6
27.5°	169.8	164.8	159.6	157.1	154.4	153.6	152.7	151.6	153.1	153.1	152.9
30°	157.9	152.6	147.2	144.1	140.9	141.2	141.4	141.1	142.1	142.7	143.2
32.5°	148.2	143.1	137.9	134.7	131.4	130.9	130.4	130.0	132.2	133.4	134.5
35°	139.5	133.9	128.2	125.2	122.2	121.0	119.8	119.0	121.0	122.5	124.0
37.5°	133.7	127.8	121.8	119.0	116.0	114.5	113.0	112.0	112.8	113.5	114.1
40°	129.0	123.0	116.8	113.5	110.1	108.6	107.1	106.3	106.8	107.0	107.1
42.5°	124.7	118.8	113.0	109.3	105.5	103.6	101.8	100.8	101.1	101.4	101.6
45°	121.5	115.6	109.6	105.3	100.8	98.8	96.8	95.6	95.8	95.8	95.8
47.5°	124.5	116.0	107.3	102.3	97.1	94.8	92.4	91.2	90.9	90.6	90.2
50°	135.5	121.0	106.3	99.9	93.4	90.9	88.2	86.9	86.1	85.7	85.4
52.5°	132.4	119.8	107.1	98.9	90.6	87.6	84.6	82.4	81.6	81.1	80.6
55°	121.2	113.3	105.3	95.4	85.6	82.9	80.1	78.5	77.0	76.7	76.4
57.5°	106.5	103.3	100.1	90.1	80.1	77.5	74.9	73.9	72.5	72.5	72.4
60°	89.1	93.8	98.4	86.9	75.2	72.4	69.5	68.7	68.2	68.0	67.9
62.5°	80.1	87.7	95.3	83.1	70.7	67.7	64.7	63.7	63.5	63.7	63.7
65°	72.4	74.7	77.0	71.4	65.7	62.7	59.5	58.5	58.8	59.3	59.8
67.5°	65.3	64.8	64.3	62.3	60.2	57.7	55.0	54.0	54.1	54.8	55.5
70°	58.7	58.0	57.2	55.7	54.1	52.0	49.8	49.1	49.0	49.8	50.5
72.5°	52.0	51.1	50.1	49.0	47.6	45.8	44.0	43.5	43.6	44.1	44.6
75°	44.6	44.0	43.1	42.1	40.9	39.3	37.6	37.3	37.6	38.1	38.6
77.5°	36.6	36.4	36.1	35.3	34.4	32.6	30.6	30.4	30.9	31.4	31.8
80°	28.6	28.7	28.9	28.2	27.6	25.6	23.4	23.2	23.7	24.2	24.7
82.5°	21.1	21.6	21.9	21.1	20.2	17.9	15.5	15.2	16.9	17.4	17.9
85°	12.2	12.9	13.5	12.9	12.2	9.9	7.5	7.4	8.9	9.7	10.5
87.5°	1.0	1.3	1.7	1.5	1.3	0.7	0.0	0.0	0.2	0.8	1.5
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



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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: P320795

CATALOG NUMBER: GLEON-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1088.5	1081.9	1079.9	1077.9	1070.6	1063.1	1070.7	1078.3	1081.4	1084.6	1076.4
5°	885.1	883.9	883.9	883.7	877.1	870.2	875.4	880.4	869.2	858.0	856.8
7.5°	663.3	670.5	676.3	682.0	679.9	677.7	682.5	687.4	673.2	658.8	651.8
10°	491.2	492.7	499.0	505.4	506.9	508.2	514.2	520.1	509.1	498.0	493.2
12.5°	383.2	375.2	376.0	376.7	379.7	382.5	388.9	395.1	390.6	385.9	386.4
15°	310.3	300.2	296.0	291.6	295.0	298.3	302.8	307.2	307.3	307.3	311.7
17.5°	253.4	248.2	244.0	239.7	244.2	248.5	249.0	249.5	249.7	249.8	249.5
20°	207.6	210.1	208.7	207.4	209.1	210.6	211.9	213.1	211.6	209.9	205.7
22.5°	182.0	184.2	185.8	187.3	190.2	192.9	191.5	190.0	187.0	183.8	180.7
25°	167.1	168.6	170.3	172.0	174.3	176.5	174.1	171.8	169.6	167.5	165.3
27.5°	154.6	156.1	157.6	158.9	161.1	163.1	160.9	158.8	156.9	155.1	153.4
30°	144.4	145.4	146.6	147.7	149.7	151.6	149.7	147.7	146.4	144.9	143.7
32.5°	135.7	136.7	137.2	137.7	139.5	141.4	140.0	138.7	137.5	136.4	135.5
35°	126.2	128.2	128.5	128.9	130.7	132.5	131.7	130.7	129.4	128.0	126.5
37.5°	116.5	118.8	120.2	121.3	123.2	125.0	124.2	123.3	121.5	119.7	117.0
40°	108.3	109.3	111.8	114.1	117.2	120.0	118.3	116.5	113.6	110.8	109.5
42.5°	101.4	101.3	103.6	106.0	110.5	114.8	111.8	108.8	106.1	103.4	103.1
45°	95.4	94.9	96.1	97.3	102.1	106.8	103.8	100.6	99.1	97.6	97.6
47.5°	90.1	89.7	90.6	91.2	94.3	97.1	95.6	94.1	93.3	92.4	92.6
50°	85.2	84.9	85.7	86.4	87.6	88.6	88.9	89.1	88.6	88.1	88.4
52.5°	80.7	80.7	81.1	81.2	82.7	84.2	84.2	84.1	84.1	84.1	84.4
55°	76.9	77.2	77.2	77.2	79.5	81.7	81.1	80.4	80.6	80.6	80.9
57.5°	73.0	73.5	73.9	74.2	76.5	78.9	78.2	77.5	77.5	77.5	77.7
60°	68.7	69.4	70.0	70.7	73.0	75.4	74.7	73.9	74.0	74.2	74.4
62.5°	64.5	65.2	65.8	66.5	68.9	71.2	70.5	69.7	70.2	70.5	70.5
65°	60.5	61.0	61.7	62.3	64.5	66.7	66.0	65.3	66.0	66.5	66.8
67.5°	56.0	56.3	57.0	57.7	59.8	62.0	61.3	60.5	61.3	62.0	62.7
70°	50.8	51.1	52.0	52.6	54.8	57.0	56.2	55.3	56.2	57.0	57.7
72.5°	45.1	45.5	46.3	47.0	49.5	52.0	51.0	50.0	51.0	52.0	52.3
75°	38.9	39.3	40.3	41.1	43.6	46.1	45.3	44.3	45.1	46.0	46.1
77.5°	32.3	32.8	34.1	35.4	37.4	39.4	38.9	38.4	38.9	39.4	39.4
80°	25.2	25.7	27.4	28.9	30.1	31.3	31.4	31.6	31.8	31.9	31.8
82.5°	18.7	19.4	20.9	22.4	22.4	22.4	23.7	24.9	24.9	24.7	24.6
85°	11.5	12.4	13.7	15.0	14.2	13.4	15.5	17.5	17.5	17.4	17.0
87.5°	2.3	3.2	4.5	5.7	4.8	4.0	6.2	8.4	8.5	8.5	8.2
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: P320795
 CATALOG NUMBER: GLEON-SA1B-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: P320795

CATALOG NUMBER: GLEON-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1068.1	1081.1	1094.0	1097.3	1102.3	1104.5	1106.5	1122.9	1139.1	1158.2	1177.2
5°	855.5	865.2	874.9	876.4	881.6	884.2	886.9	906.8	926.5	953.1	979.7
7.5°	644.8	647.1	649.4	649.1	653.4	659.3	665.0	686.2	707.3	735.8	764.2
10°	488.3	493.7	498.9	503.7	513.2	524.3	535.1	556.8	578.6	606.8	634.9
12.5°	386.9	393.1	399.1	404.4	415.5	430.2	444.7	470.8	496.9	530.6	564.2
15°	315.9	315.4	314.9	318.5	328.2	344.3	360.1	387.7	415.3	452.4	489.3
17.5°	249.2	246.7	244.2	247.0	256.0	269.2	282.3	305.7	328.9	364.8	400.8
20°	201.5	199.9	198.2	200.9	206.6	212.1	217.6	234.5	251.2	280.4	309.5
22.5°	177.3	177.1	176.8	178.3	181.0	183.8	186.5	194.7	202.7	221.6	240.3
25°	163.1	162.9	162.8	163.4	165.6	167.8	170.0	175.3	180.7	189.7	198.7
27.5°	151.7	151.4	151.1	151.2	151.7	155.1	158.3	160.8	163.1	169.3	175.3
30°	142.6	142.4	142.2	142.2	141.7	142.9	144.1	147.9	151.6	157.9	164.3
32.5°	134.7	133.9	133.0	131.2	130.0	131.7	133.4	137.4	141.4	147.2	153.1
35°	124.8	122.7	120.3	119.3	119.5	121.2	122.8	126.8	130.7	137.0	143.2
37.5°	114.1	113.5	112.6	112.5	113.0	114.6	116.3	119.8	123.2	129.5	135.7
40°	108.1	107.8	107.5	107.1	107.5	109.1	110.8	114.1	117.3	123.5	129.5
42.5°	102.8	102.6	102.4	102.4	102.6	104.5	106.3	109.6	112.8	118.3	123.8
45°	97.6	97.8	97.8	98.1	98.6	100.4	102.1	105.8	109.5	114.8	120.2
47.5°	92.8	93.3	93.6	94.4	94.9	96.9	98.8	102.8	106.8	113.5	120.0
50°	88.6	89.1	89.4	90.1	91.4	93.8	96.1	100.9	105.6	116.8	127.8
52.5°	84.7	85.2	85.7	86.4	88.1	90.7	93.4	99.4	105.3	118.3	131.4
55°	81.2	81.7	82.1	83.1	84.7	87.1	89.2	96.6	103.9	113.5	123.0
57.5°	77.9	78.4	78.7	79.4	80.2	82.7	85.1	92.9	100.8	107.5	114.0
60°	74.4	74.7	74.9	74.9	75.5	78.4	81.2	91.2	101.1	99.9	98.6
62.5°	70.5	70.9	71.0	70.5	71.4	74.4	77.4	90.4	103.4	95.4	87.4
65°	67.0	66.8	66.7	66.2	67.2	70.2	73.0	79.5	86.1	82.9	79.7
67.5°	63.2	62.7	62.2	61.5	62.5	65.2	67.7	69.9	72.0	72.4	72.7
70°	58.3	57.7	57.0	56.8	57.3	59.5	61.7	63.2	64.5	65.2	65.7
72.5°	52.6	52.1	51.6	51.3	51.5	53.3	55.0	56.3	57.7	58.2	58.5
75°	46.3	46.3	46.1	45.1	45.1	46.6	48.0	49.1	50.3	51.0	51.6
77.5°	39.4	39.6	39.6	38.3	38.1	39.6	40.9	41.9	42.8	43.5	44.0
80°	31.6	31.3	30.9	30.1	29.7	31.6	33.3	34.1	34.8	34.9	34.9
82.5°	24.2	23.6	22.7	20.9	21.1	23.1	24.9	25.6	26.2	26.2	26.2
85°	16.5	15.2	13.7	12.2	12.4	14.5	16.5	17.2	17.9	18.2	18.4
87.5°	7.9	6.5	5.0	3.8	3.8	5.7	7.4	7.7	8.0	8.7	9.4
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: P320795
 CATALOG NUMBER: GLEON-SA1B-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: P320795

CATALOG NUMBER: GLEON-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1191.7	1206.1	1221.0	1235.9	1252.9	1270.0	1289.8	1309.6	1326.4	1343.3	1357.4
5°	1002.6	1025.5	1052.4	1079.3	1113.5	1147.8	1189.7	1231.5	1268.8	1306.1	1349.3
7.5°	794.2	823.9	859.0	894.1	938.4	982.7	1037.0	1091.3	1143.9	1196.4	1262.9
10°	666.1	697.4	732.0	766.4	811.5	856.5	914.0	971.3	1030.5	1089.5	1164.7
12.5°	599.0	633.6	664.0	694.4	731.0	767.4	823.1	878.7	948.2	1017.6	1090.0
15°	527.3	565.0	601.5	637.9	677.8	717.6	771.8	825.9	902.0	978.0	1061.2
17.5°	440.5	480.3	524.8	569.0	621.2	673.2	742.5	811.9	902.0	991.9	1090.0
20°	350.1	390.7	443.9	497.0	561.9	626.5	716.4	806.4	927.7	1048.9	1174.0
22.5°	276.3	312.0	370.0	427.8	502.7	577.6	692.9	808.0	966.6	1125.1	1294.0
25°	223.9	249.2	306.2	363.0	449.4	535.8	678.5	821.1	1023.3	1225.3	1434.9
27.5°	191.9	208.4	261.5	314.5	408.9	503.2	672.7	842.0	1095.1	1348.3	1588.2
30°	175.8	187.3	232.3	277.1	373.0	468.9	665.6	862.3	1164.3	1466.2	1708.0
32.5°	162.4	171.6	210.1	248.3	341.9	435.5	652.1	868.5	1212.6	1556.7	1809.4
35°	151.1	158.8	192.2	225.6	317.5	409.4	629.4	849.3	1242.9	1636.5	1915.0
37.5°	141.9	147.9	178.8	209.7	296.5	383.2	603.5	823.7	1269.8	1715.8	2033.9
40°	134.7	139.9	168.8	197.7	276.4	355.1	581.2	807.2	1306.9	1806.6	2159.4
42.5°	130.7	137.4	160.1	182.7	257.4	332.1	563.4	794.7	1341.3	1887.8	2269.2
45°	129.7	139.2	155.6	172.0	243.2	314.4	547.5	780.5	1363.5	1946.6	2351.9
47.5°	128.0	135.9	152.1	168.3	236.1	303.8	539.0	773.9	1385.8	1997.4	2420.6
50°	129.0	130.0	149.2	168.3	235.1	302.0	548.7	795.3	1433.9	2072.3	2499.1
52.5°	127.2	122.8	143.9	164.9	235.0	305.0	576.6	848.1	1523.3	2198.3	2584.2
55°	117.5	111.8	133.9	155.9	231.5	306.8	609.8	912.7	1643.3	2373.8	2737.1
57.5°	109.0	103.8	122.5	141.1	220.8	300.5	644.1	987.5	1770.2	2552.6	2909.4
60°	97.6	96.4	109.8	123.2	204.2	285.1	672.3	1059.4	1855.4	2651.2	2975.8
62.5°	88.2	88.9	98.8	108.6	183.5	258.2	681.7	1105.0	1853.0	2601.1	2908.9
65°	81.1	82.2	91.9	101.6	165.8	230.0	650.9	1071.8	1759.3	2446.7	2776.7
67.5°	74.0	75.4	86.9	98.3	150.1	201.7	574.1	946.2	1590.7	2234.9	2608.6
70°	67.3	69.0	81.6	94.1	138.7	183.2	475.0	766.8	1379.6	1992.3	2413.9
72.5°	60.2	61.8	75.2	88.6	131.5	174.3	387.2	600.0	1119.5	1639.0	2064.8
75°	52.8	54.0	68.5	82.9	121.7	160.4	303.8	447.1	856.8	1266.6	1559.6
77.5°	45.5	47.0	59.2	71.2	103.3	135.2	229.0	322.7	628.7	934.5	1084.6
80°	36.3	37.6	46.3	54.8	79.7	104.5	157.4	210.4	432.7	654.9	739.5
82.5°	27.7	29.2	35.1	40.8	56.8	72.9	95.4	118.0	287.4	456.7	463.8
85°	19.1	19.6	23.7	27.7	35.1	42.4	54.6	66.8	190.2	313.5	261.2
87.5°	9.5	9.5	12.4	15.2	18.9	22.6	28.9	35.1	60.8	86.6	49.8
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: P320795
 CATALOG NUMBER: GLEON-SA1B-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: P320795

CATALOG NUMBER: GLEON-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1375.2	1387.4	1399.8	1409.2	1418.7	1432.4	1446.1	1448.6	1451.3	1445.9	1440.6
5°	1393.0	1429.9	1467.0	1501.3	1535.5	1556.1	1576.6	1580.8	1585.0	1572.1	1559.1
7.5°	1327.3	1391.6	1456.0	1515.0	1574.0	1609.7	1645.6	1653.7	1661.9	1640.8	1619.7
10°	1239.5	1318.6	1397.6	1475.3	1553.1	1605.0	1657.0	1667.4	1677.7	1651.5	1625.3
12.5°	1171.7	1256.1	1340.5	1422.4	1504.4	1558.2	1612.1	1624.9	1637.8	1618.7	1599.5
15°	1150.8	1230.2	1309.6	1380.9	1452.5	1496.4	1540.5	1545.7	1551.1	1548.0	1545.0
17.5°	1188.7	1260.4	1332.3	1371.1	1410.0	1427.6	1445.3	1450.9	1456.8	1464.3	1472.0
20°	1280.7	1331.1	1381.8	1380.1	1378.3	1369.7	1361.0	1359.5	1358.0	1379.6	1401.3
22.5°	1417.9	1437.9	1458.1	1411.2	1364.2	1335.6	1306.9	1301.2	1295.4	1318.3	1341.3
25°	1566.8	1563.1	1559.2	1469.8	1380.3	1325.8	1271.3	1264.9	1258.6	1278.1	1297.9
27.5°	1714.2	1690.1	1666.0	1544.5	1423.0	1344.0	1264.9	1258.6	1252.2	1269.6	1287.0
30°	1822.3	1783.7	1745.1	1607.5	1470.0	1376.1	1282.2	1271.8	1261.3	1282.7	1304.0
32.5°	1906.7	1854.9	1803.1	1658.7	1514.3	1412.7	1311.1	1294.9	1278.6	1307.2	1335.8
35°	1990.9	1918.1	1845.0	1704.3	1563.4	1456.0	1348.3	1328.4	1308.6	1347.8	1387.1
37.5°	2096.9	1992.3	1887.5	1755.6	1623.8	1520.8	1417.7	1397.3	1376.9	1426.9	1477.0
40°	2211.9	2072.3	1932.8	1811.8	1690.8	1610.6	1530.2	1510.8	1491.2	1552.1	1612.9
42.5°	2307.4	2146.8	1986.2	1879.4	1772.5	1716.0	1659.3	1659.2	1658.8	1720.5	1782.2
45°	2385.2	2209.0	2032.7	1945.5	1858.1	1828.6	1799.2	1822.8	1846.4	1902.0	1957.8
47.5°	2443.1	2261.2	2079.0	2021.0	1963.0	1967.4	1971.7	2019.7	2067.6	2103.4	2139.3
50°	2480.9	2308.4	2135.8	2117.9	2100.0	2139.0	2178.1	2233.1	2288.2	2312.6	2337.0
52.5°	2535.9	2372.6	2209.2	2229.2	2249.3	2328.8	2408.4	2464.0	2519.7	2528.7	2537.9
55°	2663.1	2490.6	2318.0	2356.4	2395.0	2511.7	2628.5	2671.9	2715.4	2718.7	2722.1
57.5°	2843.7	2655.9	2468.1	2509.5	2550.9	2685.6	2820.5	2867.3	2914.3	2907.7	2901.1
60°	2978.9	2812.8	2646.5	2688.3	2730.1	2861.5	2992.8	3046.6	3100.6	3086.2	3071.9
62.5°	2987.3	2898.6	2809.6	2847.4	2885.4	3014.0	3142.7	3198.0	3253.4	3228.3	3203.2
65°	2854.4	2894.2	2934.0	2946.5	2959.1	3079.0	3199.2	3241.5	3283.9	3271.2	3258.5
67.5°	2671.4	2818.0	2964.7	2939.5	2914.3	2970.6	3026.9	3070.5	3114.1	3107.0	3099.6
70°	2488.8	2684.5	2880.2	2756.2	2632.0	2608.8	2585.5	2632.5	2679.6	2650.5	2621.3
72.5°	2177.8	2386.3	2595.1	2366.6	2138.2	2058.8	1979.4	2039.0	2098.7	2052.4	2006.0
75°	1709.5	1939.9	2170.6	1898.0	1625.4	1519.5	1413.5	1464.8	1516.1	1484.4	1452.5
77.5°	1272.6	1499.7	1726.9	1449.8	1172.5	1093.8	1014.9	1030.1	1045.5	1040.2	1034.6
80°	863.2	1021.4	1179.9	995.4	810.9	816.9	823.1	815.9	808.5	819.2	829.9
82.5°	550.8	673.0	795.3	697.4	599.5	655.6	711.8	684.2	656.5	666.6	677.0
85°	314.4	433.8	553.5	515.9	478.1	510.9	543.8	501.0	458.2	477.0	495.8
87.5°	82.9	240.0	397.2	360.6	324.0	281.6	239.2	182.5	125.8	183.8	241.8
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: P320795
 CATALOG NUMBER: GLEON-SA1B-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: P320795

CATALOG NUMBER: GLEON-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1437.7	1434.9	1424.7	1414.3	1399.0	1386.3	1364.2
5°	1541.0	1523.0	1491.9	1460.6	1425.9	1385.9	1341.7
7.5°	1577.6	1535.3	1475.7	1415.9	1362.0	1298.9	1240.0
10°	1562.1	1498.7	1421.2	1343.5	1278.1	1205.4	1140.1
12.5°	1532.3	1465.0	1379.6	1294.0	1219.7	1141.6	1068.4
15°	1491.4	1437.6	1357.5	1277.5	1202.6	1126.7	1040.0
17.5°	1446.6	1421.0	1363.2	1305.2	1240.4	1166.8	1065.1
20°	1410.5	1419.9	1396.8	1373.7	1321.8	1257.6	1143.3
22.5°	1386.1	1431.1	1448.8	1466.7	1435.4	1385.3	1253.1
25°	1372.4	1446.9	1506.3	1565.8	1551.9	1513.3	1386.4
27.5°	1378.4	1469.8	1561.9	1654.2	1667.0	1656.3	1527.0
30°	1396.5	1489.1	1601.2	1713.5	1764.8	1779.2	1644.1
32.5°	1426.5	1517.3	1639.5	1761.8	1839.3	1885.1	1751.3
35°	1472.0	1556.9	1684.3	1811.6	1911.9	1995.4	1861.9
37.5°	1550.1	1623.1	1740.6	1858.2	1988.2	2113.8	1983.7
40°	1664.4	1716.0	1815.3	1914.7	2078.3	2247.8	2119.6
42.5°	1808.6	1835.2	1913.9	1992.6	2172.4	2369.4	2252.5
45°	1964.8	1971.9	2021.3	2071.0	2246.9	2452.3	2352.2
47.5°	2115.3	2091.2	2110.9	2130.6	2304.1	2511.5	2427.9
50°	2270.0	2203.0	2192.6	2182.3	2361.3	2581.2	2524.2
52.5°	2427.4	2317.0	2276.0	2234.9	2429.4	2673.6	2644.0
55°	2581.5	2441.0	2385.8	2330.7	2533.7	2786.4	2820.0
57.5°	2741.8	2582.5	2531.4	2480.3	2687.0	2929.3	2977.9
60°	2914.3	2756.5	2715.6	2674.4	2877.5	3083.7	3048.3
62.5°	3077.9	2952.5	2931.0	2909.3	3070.2	3202.4	3020.9
65°	3187.2	3115.6	3135.7	3155.9	3215.9	3232.0	2940.7
67.5°	3114.1	3128.7	3213.4	3298.3	3257.0	3144.1	2782.6
70°	2708.4	2795.6	2996.3	3197.2	3105.6	2908.6	2498.8
72.5°	2103.9	2202.0	2500.0	2798.1	2713.7	2472.4	2052.4
75°	1563.1	1673.9	2002.8	2331.7	2214.5	1849.4	1469.5
77.5°	1108.9	1183.1	1507.8	1832.7	1641.6	1231.0	988.9
80°	807.2	784.5	965.5	1146.5	1114.7	814.2	635.1
82.5°	621.5	566.0	651.3	736.5	731.8	565.0	465.9
85°	473.6	451.4	526.8	602.1	537.6	382.7	296.1
87.5°	276.1	310.5	399.3	488.2	366.3	116.1	57.5
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: P320795
 CATALOG NUMBER: GLEON-SA1B-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.

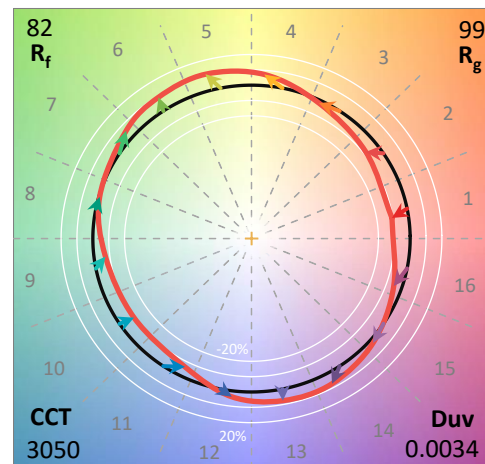
Test Information

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

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 $\text{W}^{\wedge}/\text{nm}$	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 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

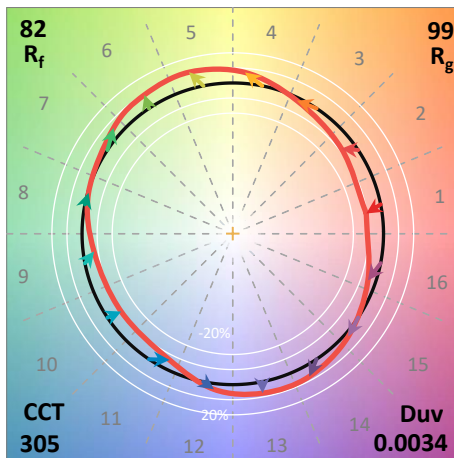
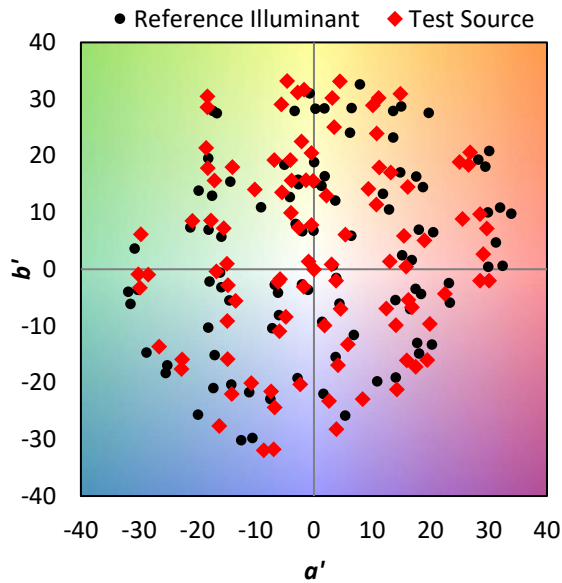
TM-30-18

Summary

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

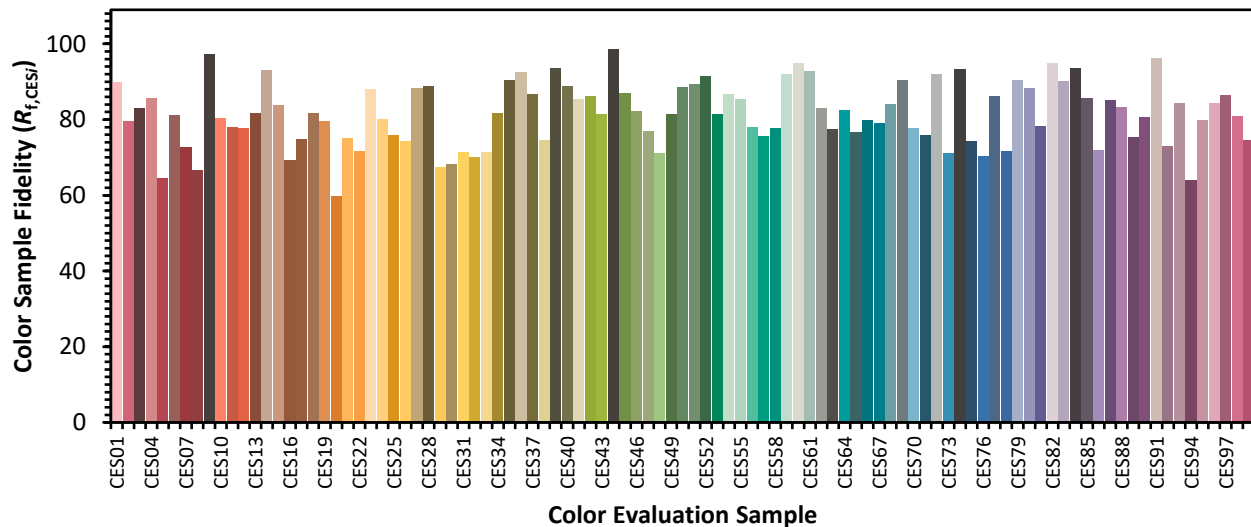


Color Vector Graphics

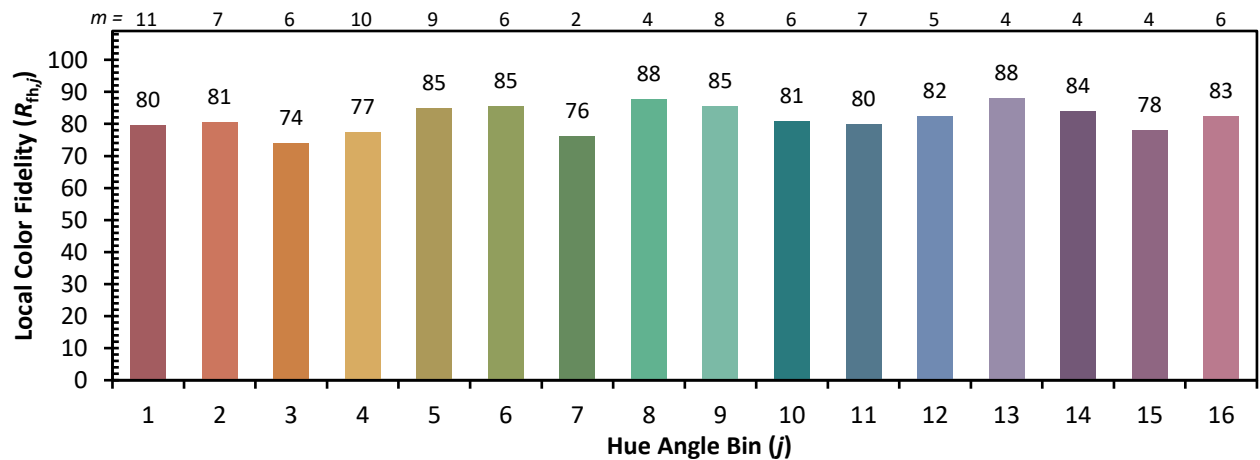


Individual Sample Fidelity Index ($R_{f,i}$)

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)