

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: P320808

Luminaire Tested: **GLEON-SA4C-830-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320808  
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-SA4C-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA 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: 19926 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

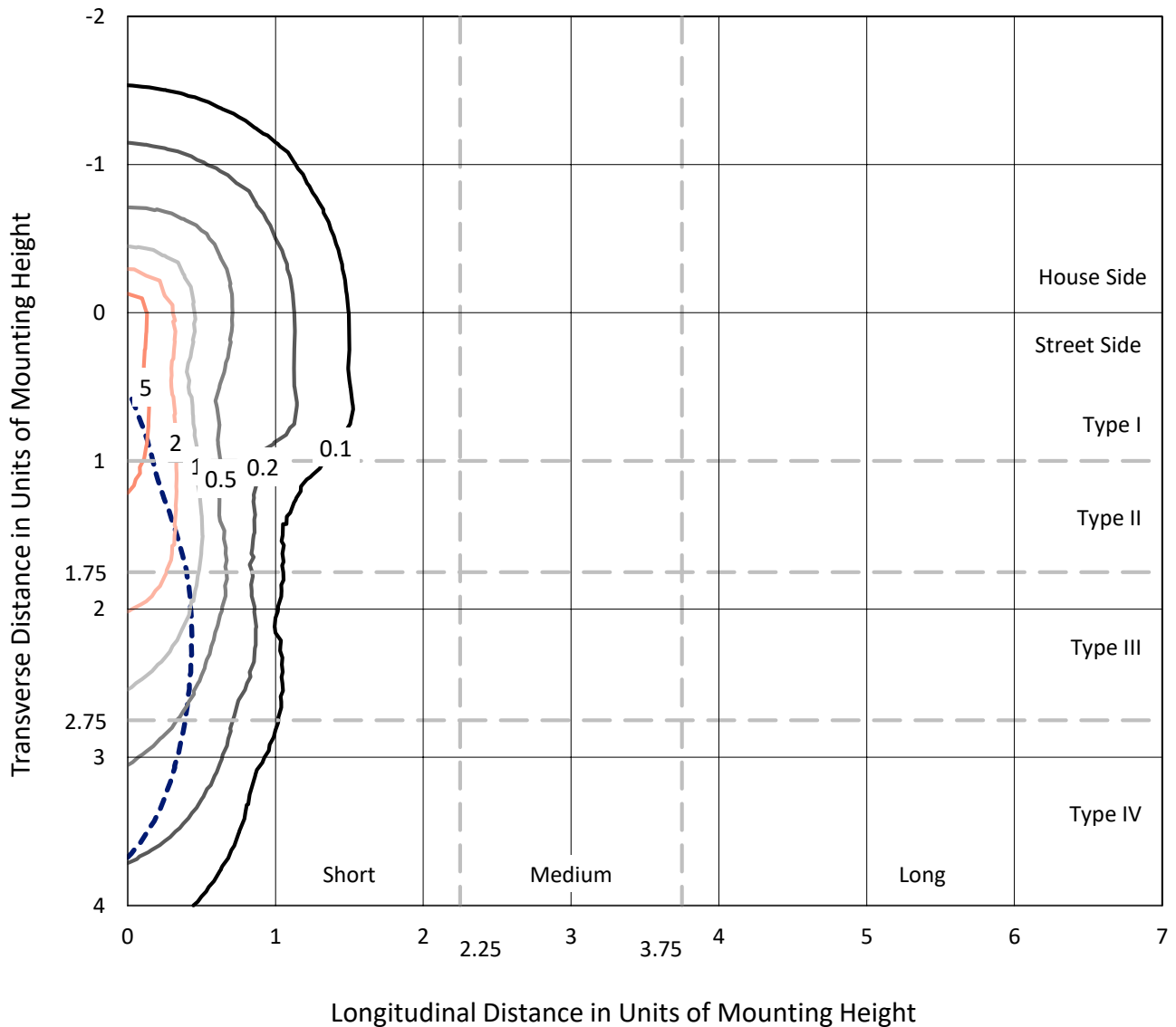
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

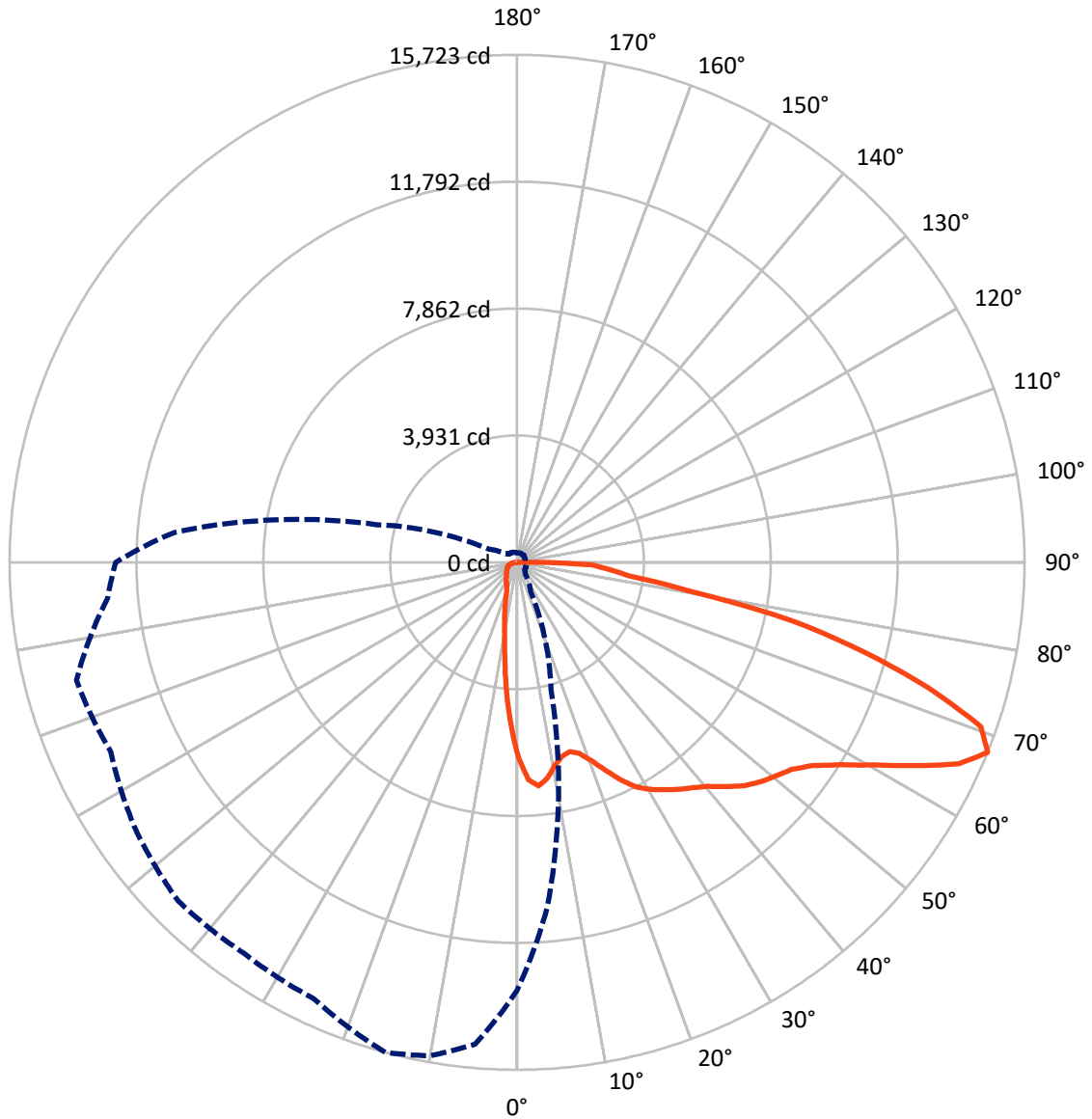
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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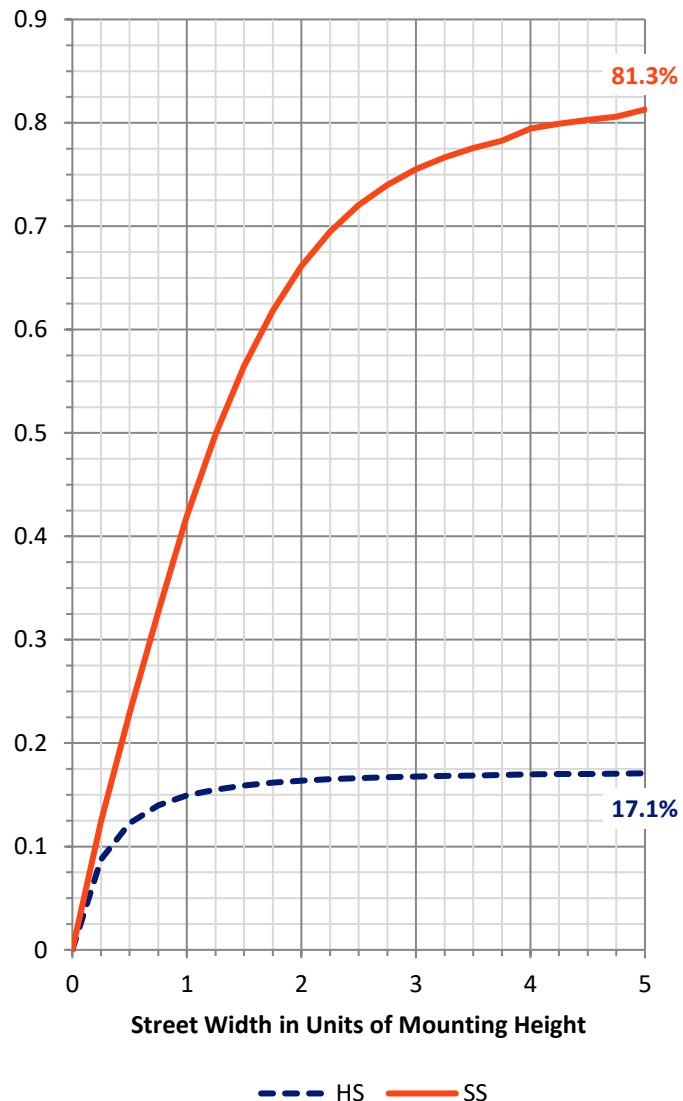
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3444.8	0.0	3444.8
	% Fixture	17.3	0.0	17.3
<b>Street Side</b>	Lumens	16481.2	0.0	16481.2
	% Fixture	82.7	0.0	82.7
<b>Total</b>	Lumens	19926.0	0.0	19926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.5	2.4
10°-20°	973.3	4.9
20°-30°	1384.2	6.9
30°-40°	1994.7	10.0
40°-50°	2811.0	14.1
50°-60°	3907.8	19.6
60°-70°	4725.7	23.7
70°-80°	2904.8	14.6
80°-90°	755.9	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°	19926.0	100.0
0°-180°	19926.0	100.0

**Coefficient of Utilization**

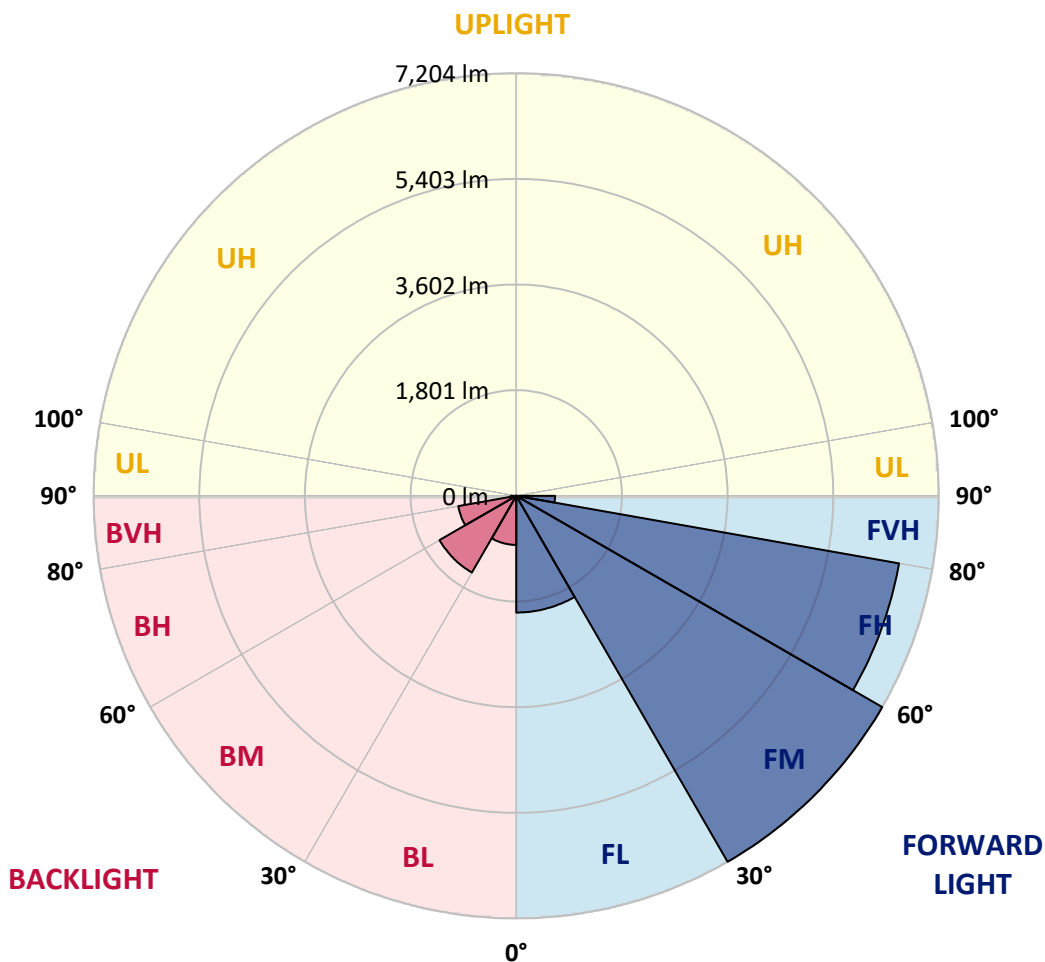


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1989.7	10.0			
FM (30°-60°)	7203.7	36.2			
FH (60°-80°)	6626.7	33.3			G3/7500
FVH (80°-90°)	661.1	3.3			G4/750
BL (0°-30°)	836.4	4.2	B2/1000		
BM (30°-60°)	1509.8	7.6	B2/2500		
BH (60°-80°)	1003.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	94.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	6503.2	6445.8	6359.0	6272.2	6207.6	6142.3	6068.2	5994.1	5909.7	5824.4	5774.2
5°	6395.6	6236.3	6029.2	5822.0	5685.0	5548.0	5392.6	5237.3	5083.5	4929.8	4846.9
7.5°	5911.3	5672.3	5403.0	5133.7	4934.5	4734.6	4519.5	4303.6	4112.4	3920.4	3801.7
10°	5434.9	5148.1	4838.9	4529.0	4274.1	4019.2	3803.3	3586.6	3442.4	3298.2	3189.1
12.5°	5093.1	4775.2	4435.0	4094.1	3839.1	3584.2	3447.2	3310.1	3190.6	3071.1	2945.3
15°	4957.7	4598.4	4250.2	3901.3	3669.4	3437.6	3285.5	3132.5	2972.4	2811.4	2656.9
17.5°	5077.2	4656.5	4278.1	3899.7	3596.1	3292.6	3079.9	2866.4	2655.3	2444.2	2264.9
20°	5450.0	4913.0	4418.3	3922.8	3518.9	3115.0	2829.8	2543.8	2272.9	2002.0	1798.9
22.5°	5973.4	5262.8	4616.7	3970.6	3448.8	2926.2	2568.5	2210.0	1889.7	1569.4	1370.3
25°	6609.1	5726.4	4902.7	4078.1	3420.1	2761.2	2321.5	1881.7	1543.9	1205.4	1063.5
27.5°	7279.1	6279.3	5258.0	4235.9	3424.9	2613.9	2113.6	1612.5	1308.1	1003.8	906.6
30°	7837.6	6911.1	5672.3	4432.6	3443.2	2453.7	1917.6	1381.4	1130.5	879.5	816.6
32.5°	8348.3	7351.6	5984.6	4616.7	3463.9	2310.3	1766.2	1221.3	1016.5	811.0	759.2
35°	8875.7	7742.8	6202.8	4662.1	3428.1	2193.2	1662.6	1132.1	943.3	753.6	709.8
37.5°	9456.4	8165.8	6413.2	4659.7	3367.5	2075.3	1582.2	1088.2	895.5	701.9	670.0
40°	10104.1	8633.5	6641.0	4648.5	3312.5	1975.7	1522.4	1068.3	869.2	669.2	642.1
42.5°	10737.5	9079.6	6852.9	4626.2	3267.9	1908.8	1463.5	1018.1	845.3	671.6	633.3
45°	11213.1	9469.2	7036.9	4603.9	3234.5	1865.0	1417.3	969.5	823.0	676.4	627.8
47.5°	11574.0	9860.3	7240.9	4620.7	3231.3	1841.9	1384.6	927.3	780.7	633.3	613.4
50°	12032.8	10330.4	7538.1	4745.7	3275.1	1804.4	1346.4	887.5	740.1	592.7	619.8
52.5°	12604.1	11001.2	7998.5	4995.1	3366.7	1738.3	1285.8	833.3	690.7	547.3	589.5
55°	13442.9	11860.8	8587.3	5313.0	3477.4	1641.1	1194.2	746.5	625.4	503.5	540.9
57.5°	14195.8	12729.1	9152.1	5574.3	3546.8	1518.4	1078.7	638.9	552.1	465.3	486.8
60°	14531.2	13176.9	9416.6	5655.5	3505.3	1355.1	948.8	541.7	487.6	433.4	429.4
62.5°	14400.5	12892.4	9156.1	5419.7	3303.0	1186.2	834.1	482.0	441.4	399.9	391.2
65°	14018.1	11998.6	8426.3	4854.1	2961.2	1068.3	761.6	454.9	409.5	364.1	354.5
67.5°	13264.5	10726.3	7392.3	4058.2	2527.0	995.8	720.2	444.5	389.6	333.8	322.6
70°	11911.7	9195.1	6201.2	3206.6	2079.3	951.2	693.1	435.0	368.1	300.3	290.0
72.5°	9783.9	7372.3	4952.1	2531.0	1738.3	945.6	689.9	434.2	350.5	266.9	257.3
75°	7005.1	5599.8	3780.2	1959.8	1423.6	887.5	654.9	422.2	326.6	230.2	221.5
77.5°	4713.9	3875.8	2627.4	1378.2	1056.4	734.5	550.5	366.5	279.6	192.8	184.0
80°	3027.3	2682.4	1760.6	838.9	685.1	531.4	393.6	255.7	203.9	151.4	144.2
82.5°	2221.1	1996.4	1223.7	450.9	380.8	309.9	240.6	171.3	139.4	107.5	104.4
85°	1411.7	1556.7	901.0	245.4	200.8	156.1	129.1	102.0	80.5	59.0	59.0
87.5°	274.1	379.2	249.4	118.7	86.8	55.0	47.0	38.2	21.5	4.0	4.8
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



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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°	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	5723.2	5668.3	5613.3	5551.2	5488.2	5430.1	5371.1	5306.6	5318.5	5269.1	5219.8
5°	4764.1	4676.4	4588.0	4511.5	4435.0	4368.9	4302.0	4242.2	4294.0	4259.0	4223.9
7.5°	3682.2	3573.8	3464.7	3373.1	3281.5	3210.6	3138.9	3089.5	3140.5	3134.1	3127.7
10°	3079.9	2974.8	2868.8	2767.6	2666.4	2580.4	2493.6	2420.3	2407.5	2370.9	2333.4
12.5°	2818.6	2674.4	2529.4	2423.5	2317.5	2214.7	2112.0	2025.9	1986.9	1926.3	1865.0
15°	2502.3	2331.8	2161.4	2041.1	1920.0	1820.4	1720.0	1645.9	1621.2	1574.2	1527.2
17.5°	2085.7	1899.3	1712.8	1590.9	1468.3	1388.6	1308.1	1258.7	1258.7	1245.2	1231.6
20°	1595.7	1429.2	1262.7	1169.5	1076.3	1034.1	991.1	970.3	976.7	977.5	977.5
22.5°	1170.3	1068.3	966.4	928.9	890.7	875.5	860.4	851.6	854.8	855.6	856.4
25°	921.7	882.7	842.9	823.8	803.8	794.3	784.7	781.5	788.7	789.5	789.5
27.5°	809.4	785.5	760.8	748.9	736.1	732.1	728.2	722.6	729.7	729.7	728.9
30°	752.8	727.4	701.9	686.7	671.6	673.2	674.0	672.4	677.2	680.4	682.7
32.5°	706.6	681.9	657.2	642.1	626.2	623.8	621.4	619.8	630.2	635.7	641.3
35°	665.2	638.1	611.0	596.7	582.4	576.8	571.2	567.2	576.8	584.0	591.1
37.5°	637.3	609.4	580.8	567.2	552.9	545.7	538.5	533.8	537.7	540.9	544.1
40°	615.0	586.3	556.9	540.9	525.0	517.8	510.7	506.7	509.1	509.9	510.7
42.5°	594.3	566.4	538.5	521.0	502.7	493.9	485.2	480.4	482.0	483.6	484.4
45°	579.2	551.3	522.6	501.9	480.4	470.8	461.3	455.7	456.5	456.5	456.5
47.5°	593.5	552.9	511.5	487.6	462.9	451.7	440.6	435.0	433.4	431.8	430.2
50°	646.1	576.8	506.7	476.4	445.3	433.4	420.6	414.3	410.3	408.7	407.1
52.5°	631.0	571.2	510.7	471.6	431.8	417.5	403.1	392.8	388.8	386.4	384.0
55°	577.6	540.1	501.9	454.9	407.9	395.1	381.6	374.4	367.3	365.7	364.1
57.5°	507.5	492.3	477.2	429.4	381.6	369.7	356.9	352.1	345.8	345.8	345.0
60°	424.6	446.9	469.2	414.3	358.5	345.0	331.4	327.4	325.0	324.2	323.4
62.5°	381.6	418.2	454.1	395.9	337.0	322.6	308.3	303.5	302.7	303.5	303.5
65°	345.0	356.1	367.3	340.2	313.1	298.7	283.6	278.8	280.4	282.8	285.2
67.5°	311.5	309.1	306.7	297.2	286.8	274.8	262.1	257.3	258.1	261.3	264.5
70°	279.6	276.4	272.5	265.3	258.1	247.8	237.4	234.2	233.4	237.4	240.6
72.5°	247.8	243.8	239.0	233.4	227.0	218.3	209.5	207.1	207.9	210.3	212.7
75°	212.7	209.5	205.5	200.8	195.2	187.2	179.2	177.7	179.2	181.6	184.0
77.5°	174.5	173.7	172.1	168.1	164.1	155.3	145.8	145.0	147.4	149.8	151.4
80°	136.2	137.0	137.8	134.6	131.4	121.9	111.5	110.7	113.1	115.5	117.9
82.5°	100.4	102.8	104.4	100.4	96.4	85.2	74.1	72.5	80.5	82.9	85.2
85°	58.2	61.3	64.5	61.3	58.2	47.0	35.8	35.1	42.2	46.2	50.2
87.5°	4.8	6.4	8.0	7.2	6.4	3.2	0.0	0.0	0.8	4.0	7.2
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: P320808  
 CATALOG NUMBER: GLEON-SA4C-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: P320808  
 CATALOG NUMBER: GLEON-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	5188.7	5157.6	5148.1	5138.5	5103.4	5067.6	5104.2	5140.1	5155.2	5170.4	5131.3
5°	4219.1	4213.6	4213.6	4212.8	4180.9	4148.2	4172.9	4196.8	4143.5	4090.1	4084.5
7.5°	3162.0	3196.2	3224.1	3251.2	3240.8	3230.5	3253.6	3276.7	3209.0	3140.5	3107.0
10°	2341.4	2348.6	2378.8	2409.1	2416.3	2422.7	2451.3	2479.2	2426.6	2374.1	2351.0
12.5°	1826.8	1788.5	1792.5	1795.7	1810.0	1823.6	1853.8	1883.3	1861.8	1839.5	1841.9
15°	1479.4	1430.8	1410.9	1390.2	1406.1	1422.0	1443.6	1464.3	1465.1	1465.1	1485.8
17.5°	1207.7	1183.0	1163.1	1142.4	1163.9	1184.6	1187.0	1189.4	1190.2	1191.0	1189.4
20°	989.5	1001.4	995.0	988.7	996.6	1003.8	1010.2	1015.7	1008.6	1000.6	980.7
22.5°	867.6	877.9	885.9	893.1	906.6	919.4	913.0	905.8	891.5	876.3	861.2
25°	796.7	803.8	811.8	819.8	830.9	841.3	830.1	819.0	808.6	798.3	787.9
27.5°	736.9	744.1	751.3	757.6	768.0	777.5	767.2	756.8	748.1	739.3	731.3
30°	688.3	693.1	698.7	704.3	713.8	722.6	713.8	704.3	697.9	690.7	685.1
32.5°	646.9	651.7	654.1	656.5	665.2	674.0	667.6	661.2	655.7	650.1	646.1
35°	601.5	611.0	612.6	614.2	623.0	631.8	627.8	623.0	616.6	610.2	603.1
37.5°	555.3	566.4	572.8	578.4	587.1	595.9	591.9	587.9	579.2	570.4	557.7
40°	516.2	521.0	533.0	544.1	558.5	572.0	564.0	555.3	541.7	528.2	521.8
42.5°	483.6	482.8	493.9	505.1	526.6	547.3	533.0	518.6	505.9	493.1	491.5
45°	454.9	452.5	458.1	463.7	486.8	509.1	494.7	479.6	472.4	465.3	465.3
47.5°	429.4	427.8	431.8	435.0	449.3	462.9	455.7	448.5	444.5	440.6	441.4
50°	406.3	404.7	408.7	411.9	417.5	422.2	423.8	424.6	422.2	419.8	421.4
52.5°	384.8	384.8	386.4	387.2	394.3	401.5	401.5	400.7	400.7	400.7	402.3
55°	366.5	368.1	368.1	368.1	379.2	389.6	386.4	383.2	384.0	384.0	385.6
57.5°	348.1	350.5	352.1	353.7	364.9	376.0	372.8	369.7	369.7	369.7	370.4
60°	327.4	330.6	333.8	337.0	348.1	359.3	356.1	352.1	352.9	353.7	354.5
62.5°	307.5	310.7	313.9	317.1	328.2	339.4	336.2	332.2	334.6	336.2	336.2
65°	288.4	290.8	294.0	297.2	307.5	317.9	314.7	311.5	314.7	317.1	318.7
67.5°	266.9	268.5	271.7	274.8	285.2	295.6	292.4	288.4	292.4	295.6	298.7
70°	242.2	243.8	247.8	250.9	261.3	271.7	267.7	263.7	267.7	271.7	274.8
72.5°	215.1	216.7	220.7	223.9	235.8	247.8	243.0	238.2	243.0	247.8	249.4
75°	185.6	187.2	192.0	196.0	207.9	219.9	215.9	211.1	215.1	219.1	219.9
77.5°	153.8	156.1	162.5	168.9	178.5	188.0	185.6	183.2	185.6	188.0	188.0
80°	120.3	122.7	130.7	137.8	143.4	149.0	149.8	150.6	151.4	152.2	151.4
82.5°	89.2	92.4	99.6	106.8	106.8	106.8	113.1	118.7	118.7	117.9	117.1
85°	55.0	59.0	65.3	71.7	67.7	63.7	74.1	83.6	83.6	82.9	81.3
87.5°	11.2	15.1	21.5	27.1	23.1	19.1	29.5	39.8	40.6	40.6	39.0
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



REPORT NUMBER: P320808  
 CATALOG NUMBER: GLEON-SA4C-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: P320808  
 CATALOG NUMBER: GLEON-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	5091.5	5153.6	5215.0	5230.9	5254.8	5265.2	5274.7	5352.8	5430.1	5520.9	5611.7
5°	4078.1	4124.3	4170.5	4177.7	4202.4	4215.2	4227.9	4322.7	4416.7	4543.4	4670.1
7.5°	3073.5	3084.7	3095.8	3094.3	3115.0	3142.8	3169.9	3271.1	3371.5	3507.7	3643.2
10°	2327.9	2353.4	2378.0	2401.2	2446.6	2499.1	2550.9	2654.5	2758.1	2892.7	3026.5
12.5°	1844.3	1873.8	1902.4	1927.9	1980.5	2050.6	2119.9	2244.2	2368.5	2529.4	2689.5
15°	1505.7	1503.3	1500.9	1518.4	1564.7	1641.1	1716.8	1848.3	1979.7	2156.6	2332.6
17.5°	1187.8	1175.9	1163.9	1177.5	1220.5	1283.4	1345.6	1457.1	1567.8	1739.1	1910.4
20°	960.8	952.8	944.8	957.6	984.7	1011.0	1037.3	1117.7	1197.4	1336.8	1475.4
22.5°	845.3	844.5	842.9	850.0	862.8	876.3	889.1	928.1	966.4	1056.4	1145.6
25°	777.5	776.7	776.0	779.1	789.5	799.9	810.2	835.7	861.2	904.2	947.2
27.5°	723.4	721.8	720.2	721.0	723.4	739.3	754.4	766.4	777.5	807.0	835.7
30°	679.6	678.8	678.0	678.0	675.6	681.1	686.7	705.0	722.6	752.8	783.1
32.5°	642.1	638.1	634.1	625.4	619.8	627.8	635.7	654.9	674.0	701.9	729.7
35°	595.1	584.8	573.6	568.8	569.6	577.6	585.5	604.7	623.0	653.3	682.7
37.5°	544.1	540.9	537.0	536.2	538.5	546.5	554.5	571.2	587.1	617.4	646.9
40°	515.4	513.8	512.3	510.7	512.3	520.2	528.2	544.1	559.3	588.7	617.4
42.5°	489.9	489.2	488.4	488.4	489.2	497.9	506.7	522.6	537.7	564.0	590.3
45°	465.3	466.0	466.0	467.6	470.0	478.8	486.8	504.3	521.8	547.3	572.8
47.5°	442.1	444.5	446.1	450.1	452.5	462.1	470.8	489.9	509.1	540.9	572.0
50°	422.2	424.6	426.2	429.4	435.8	446.9	458.1	481.2	503.5	556.9	609.4
52.5°	403.9	406.3	408.7	411.9	419.8	432.6	445.3	474.0	501.9	564.0	626.2
55°	387.2	389.6	391.2	395.9	403.9	415.1	425.4	460.5	495.5	540.9	586.3
57.5°	371.2	373.6	375.2	378.4	382.4	394.3	405.5	442.9	480.4	512.3	543.3
60°	354.5	356.1	356.9	356.9	360.1	373.6	387.2	435.0	482.0	476.4	470.0
62.5°	336.2	337.8	338.6	336.2	340.2	354.5	368.9	431.0	493.1	454.9	416.7
65°	319.5	318.7	317.9	315.5	320.3	334.6	348.1	379.2	410.3	395.1	380.0
67.5°	301.1	298.7	296.4	293.2	298.0	310.7	322.6	333.0	343.4	345.0	346.5
70°	278.0	274.8	271.7	270.9	273.3	283.6	294.0	301.1	307.5	310.7	313.1
72.5°	250.9	248.6	246.2	244.6	245.4	254.1	262.1	268.5	274.8	277.2	278.8
75°	220.7	220.7	219.9	215.1	215.1	222.3	228.6	234.2	239.8	243.0	246.2
77.5°	188.0	188.8	188.8	182.4	181.6	188.8	195.2	200.0	203.9	207.1	209.5
80°	150.6	149.0	147.4	143.4	141.8	150.6	158.5	162.5	165.7	166.5	166.5
82.5°	115.5	112.3	108.3	99.6	100.4	109.9	118.7	121.9	125.1	125.1	125.1
85°	78.9	72.5	65.3	58.2	59.0	69.3	78.9	82.1	85.2	86.8	87.6
87.5°	37.4	31.1	23.9	18.3	18.3	27.1	35.1	36.6	38.2	41.4	44.6
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



REPORT NUMBER: P320808  
 CATALOG NUMBER: GLEON-SA4C-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: P320808

CATALOG NUMBER: GLEON-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	5681.0	5749.5	5820.4	5891.3	5972.6	6053.9	6148.7	6242.7	6323.1	6403.6	6470.5
5°	4779.2	4888.3	5016.6	5144.9	5308.2	5471.5	5671.5	5870.6	6048.3	6225.9	6432.3
7.5°	3785.8	3927.6	4094.9	4262.2	4473.3	4684.4	4943.3	5202.2	5453.2	5703.3	6020.4
10°	3175.5	3324.5	3489.4	3653.5	3868.6	4082.9	4357.0	4630.2	4912.2	5193.5	5552.0
12.5°	2855.3	3020.2	3165.2	3310.1	3484.6	3658.3	3923.6	4188.9	4520.3	4850.9	5195.9
15°	2513.5	2693.5	2867.2	3040.9	3231.3	3420.9	3679.0	3937.1	4299.6	4662.1	5058.8
17.5°	2100.0	2289.6	2501.5	2712.6	2961.2	3209.0	3539.6	3870.2	4299.6	4728.2	5195.9
20°	1669.0	1862.6	2115.9	2369.3	2678.4	2986.7	3415.3	3843.9	4422.3	4999.9	5596.6
22.5°	1316.9	1487.4	1763.8	2039.5	2396.4	2753.3	3303.0	3851.9	4607.9	5363.2	6168.6
25°	1067.5	1187.8	1459.5	1730.4	2142.2	2554.1	3234.5	3914.0	4878.0	5841.2	6840.2
27.5°	914.6	993.4	1246.8	1499.3	1949.4	2398.8	3206.6	4013.6	5220.6	6427.5	7570.7
30°	838.1	893.1	1107.4	1320.9	1778.2	2235.4	3173.1	4110.8	5550.4	6989.1	8141.9
32.5°	774.4	818.2	1001.4	1183.8	1630.0	2076.1	3108.6	4140.3	5780.6	7420.9	8625.5
35°	720.2	756.8	916.2	1075.5	1513.7	1951.8	3000.2	4048.7	5924.8	7801.0	9129.0
37.5°	676.4	705.0	852.4	999.8	1413.3	1826.8	2876.8	3926.8	6053.1	8179.4	9695.4
40°	642.1	666.8	804.6	942.5	1317.7	1692.9	2770.8	3847.9	6229.9	8612.0	10293.7
42.5°	623.0	654.9	763.2	870.8	1226.9	1583.0	2685.6	3788.1	6394.0	8999.1	10817.1
45°	618.2	663.6	741.7	819.8	1159.1	1498.5	2609.9	3720.4	6500.0	9279.6	11211.5
47.5°	610.2	647.7	725.0	802.2	1125.7	1448.3	2569.2	3689.4	6606.0	9521.8	11538.9
50°	615.0	619.8	711.4	802.2	1120.9	1439.6	2615.5	3791.3	6835.4	9878.7	11913.3
52.5°	606.3	585.5	685.9	786.3	1120.1	1453.9	2748.5	4043.1	7261.6	10479.3	12318.8
55°	560.1	533.0	638.1	743.3	1103.4	1462.7	2907.0	4350.6	7833.6	11315.8	13047.8
57.5°	519.4	494.7	584.0	672.4	1052.4	1432.4	3070.4	4707.5	8438.3	12168.3	13869.2
60°	465.3	459.7	523.4	587.1	973.5	1359.1	3205.0	5050.1	8844.6	12638.3	14185.4
62.5°	420.6	423.8	470.8	517.8	874.7	1230.8	3249.6	5267.6	8833.4	12399.3	13866.8
65°	386.4	392.0	438.2	484.4	790.3	1096.2	3103.0	5109.0	8386.5	11663.2	13236.6
67.5°	352.9	359.3	414.3	468.4	715.4	961.6	2736.5	4510.7	7582.7	10653.8	12435.2
70°	321.1	329.0	388.8	448.5	661.2	873.1	2264.1	3655.1	6576.5	9497.1	11507.0
72.5°	286.8	294.8	358.5	422.2	627.0	830.9	1845.9	2860.0	5336.9	7812.9	9842.8
75°	251.7	257.3	326.6	395.1	580.0	764.8	1448.3	2131.1	4084.5	6037.9	7434.5
77.5°	216.7	223.9	282.0	339.4	492.3	644.5	1091.4	1538.4	2997.1	4455.0	5170.4
80°	172.9	179.2	220.7	261.3	380.0	497.9	750.5	1003.0	2062.6	3122.1	3525.2
82.5°	132.2	139.4	167.3	194.4	270.9	347.3	454.9	562.4	1370.3	2177.3	2210.7
85°	90.8	93.2	113.1	132.2	167.3	202.4	260.5	318.7	906.6	1494.5	1245.2
87.5°	45.4	45.4	59.0	72.5	90.0	107.5	137.8	167.3	290.0	412.7	237.4
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: P320808  
 CATALOG NUMBER: GLEON-SA4C-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: P320808

CATALOG NUMBER: GLEON-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	6555.8	6613.9	6672.9	6717.5	6762.9	6828.2	6893.5	6905.5	6918.2	6892.8	6867.3
5°	6640.2	6816.3	6993.1	7156.4	7319.8	7417.8	7515.7	7535.7	7555.6	7494.2	7432.1
7.5°	6327.1	6633.8	6940.6	7221.8	7503.0	7673.5	7844.8	7883.0	7922.0	7821.7	7721.3
10°	5908.9	6285.7	6662.5	7033.0	7403.4	7651.2	7898.9	7948.3	7997.7	7872.7	7747.6
12.5°	5585.4	5987.7	6390.1	6780.4	7171.6	7428.1	7684.6	7746.0	7807.3	7716.5	7624.9
15°	5485.8	5864.3	6242.7	6582.9	6923.8	7133.3	7343.7	7368.4	7393.9	7379.5	7365.2
17.5°	5666.7	6008.5	6351.0	6535.8	6721.5	6805.1	6889.6	6916.7	6944.5	6980.4	7017.0
20°	6104.9	6345.4	6586.8	6578.9	6570.1	6529.5	6488.0	6480.9	6473.7	6576.5	6680.0
22.5°	6758.9	6854.5	6950.9	6727.0	6503.2	6367.0	6229.9	6202.8	6175.0	6284.1	6394.0
25°	7468.7	7451.2	7432.9	7006.7	6579.7	6320.0	6060.2	6030.0	5999.7	6092.9	6186.9
27.5°	8171.4	8056.7	7942.0	7362.8	6783.6	6406.8	6030.0	5999.7	5969.4	6052.3	6135.1
30°	8686.8	8502.8	8318.8	7663.1	7007.5	6559.7	6112.0	6062.6	6012.4	6114.4	6216.4
32.5°	9089.2	8842.2	8595.2	7906.9	7218.6	6734.2	6249.8	6172.6	6095.3	6231.5	6367.8
35°	9490.7	9143.3	8795.2	8124.4	7452.8	6940.6	6427.5	6332.7	6237.9	6425.1	6612.3
37.5°	9995.8	9497.1	8997.5	8369.0	7740.4	7249.7	6758.1	6660.9	6563.7	6801.9	7040.9
40°	10543.9	9878.7	9213.4	8636.7	8059.9	7677.5	7294.3	7201.9	7108.6	7398.6	7688.6
42.5°	10999.6	10234.0	9468.4	8959.3	8449.4	8180.2	7910.1	7909.3	7907.7	8201.7	8495.6
45°	11370.0	10530.3	9689.8	9274.0	8857.3	8717.1	8576.9	8689.2	8801.6	9066.9	9332.9
47.5°	11646.5	10778.9	9910.5	9634.1	9357.6	9378.4	9399.1	9627.7	9856.4	10026.8	10198.1
50°	11826.5	11004.3	10181.4	10096.1	10010.9	10196.5	10382.9	10645.0	10907.9	11024.3	11140.6
52.5°	12088.6	11310.3	10531.1	10626.7	10722.3	11101.5	11480.8	11746.0	12011.3	12054.4	12098.2
55°	12694.9	11872.7	11049.8	11233.0	11417.0	11973.1	12530.0	12737.1	12944.2	12960.2	12976.1
57.5°	13556.1	12660.6	11765.2	11962.7	12160.3	12802.4	13445.3	13668.4	13892.3	13861.2	13829.3
60°	14200.6	13408.7	12616.0	12815.2	13014.3	13640.5	14266.7	14523.2	14780.5	14712.0	14643.5
62.5°	14240.4	13817.4	13393.5	13573.6	13754.4	14367.9	14981.3	15245.0	15508.7	15389.2	15269.7
65°	13607.1	13796.7	13986.3	14046.0	14105.8	14677.8	15250.6	15452.1	15654.5	15593.9	15533.4
67.5°	12734.7	13433.4	14132.9	14012.6	13892.3	14160.7	14429.2	14637.1	14845.1	14810.8	14775.8
70°	11863.9	12796.8	13729.7	13138.6	12546.7	12436.0	12325.2	12549.1	12773.7	12635.1	12495.7
72.5°	10381.4	11375.6	12370.6	11281.6	10192.5	9814.1	9435.7	9720.1	10004.5	9783.9	9562.4
75°	8149.1	9247.7	10347.1	9047.7	7748.4	7243.3	6738.2	6982.8	7227.4	7076.0	6923.8
77.5°	6066.6	7149.3	8231.9	6911.1	5589.4	5214.2	4838.2	4910.6	4983.9	4958.4	4932.2
80°	4114.8	4869.2	5624.5	4744.9	3865.4	3894.1	3923.6	3889.3	3854.3	3905.3	3956.2
82.5°	2625.8	3208.2	3791.3	3324.5	2857.6	3125.3	3393.0	3261.6	3129.3	3177.9	3227.3
85°	1498.5	2068.1	2638.6	2459.3	2279.3	2435.4	2592.4	2388.4	2184.5	2273.7	2363.7
87.5°	395.1	1144.0	1893.7	1719.2	1544.7	1342.4	1140.0	870.0	599.9	876.3	1152.8
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: P320808  
 CATALOG NUMBER: GLEON-SA4C-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: P320808

CATALOG NUMBER: GLEON-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	6853.7	6840.2	6791.6	6742.2	6668.9	6608.3	6503.2
5°	7346.1	7260.0	7111.8	6962.9	6797.2	6606.8	6395.6
7.5°	7520.5	7319.0	7034.6	6749.4	6492.8	6191.7	5911.3
10°	7446.4	7144.5	6774.8	6404.4	6092.9	5746.4	5434.9
12.5°	7304.6	6983.6	6576.5	6168.6	5814.1	5442.0	5093.1
15°	7109.4	6852.9	6471.3	6089.7	5732.8	5371.1	4957.7
17.5°	6895.9	6774.0	6498.4	6222.0	5912.9	5562.3	5077.2
20°	6723.9	6768.5	6658.5	6548.6	6300.8	5994.9	5450.0
22.5°	6607.5	6821.8	6906.3	6991.5	6842.6	6603.6	5973.4
25°	6542.2	6897.5	7180.3	7464.0	7397.8	7213.8	6609.1
27.5°	6570.9	7006.7	7445.6	7885.4	7946.7	7895.8	7279.1
30°	6656.9	7098.3	7632.9	8168.2	8412.8	8481.3	7837.6
32.5°	6800.3	7232.9	7815.3	8398.5	8768.1	8986.4	8348.3
35°	7017.0	7421.7	8028.8	8635.9	9113.9	9512.2	8875.7
37.5°	7389.1	7737.2	8297.3	8858.1	9477.9	10076.2	9456.4
40°	7934.0	8180.2	8653.4	9127.4	9907.3	10715.2	10104.1
42.5°	8621.5	8748.2	9123.4	9498.6	10355.9	11295.1	10737.5
45°	9366.4	9399.9	9635.7	9872.3	10711.2	11690.3	11213.1
47.5°	10083.4	9968.7	10062.7	10156.7	10983.6	11972.3	11574.0
50°	10821.1	10501.6	10452.3	10402.9	11256.1	12304.5	12032.8
52.5°	11571.6	11045.0	10849.8	10653.8	11581.1	12745.1	12604.1
55°	12306.1	11636.1	11373.2	11110.3	12078.3	13282.8	13442.9
57.5°	13070.1	12310.9	12067.1	11823.3	12808.8	13964.0	14195.8
60°	13892.3	13140.2	12945.0	12749.0	13717.0	14700.1	14531.2
62.5°	14672.2	14074.7	13971.9	13868.4	14635.5	15265.7	14400.5
65°	15193.2	14852.2	14947.8	15044.2	15330.2	15406.7	14018.1
67.5°	14845.1	14914.4	15318.3	15723.0	15526.2	14987.7	13264.5
70°	12910.8	13326.6	14283.4	15241.0	14804.4	13865.2	11911.7
72.5°	10029.2	10496.9	11917.3	13338.6	12936.3	11785.9	9783.9
75°	7451.2	7979.4	9547.2	11115.1	10556.6	8815.9	7005.1
77.5°	5285.9	5639.6	7187.5	8736.2	7825.6	5868.2	4713.9
80°	3847.9	3739.5	4602.3	5465.1	5313.8	3881.4	3027.3
82.5°	2962.8	2698.3	3104.6	3510.9	3488.6	2693.5	2221.1
85°	2257.8	2151.8	2511.1	2870.4	2562.9	1824.4	1411.7
87.5°	1316.1	1480.2	1903.2	2327.1	1746.3	553.7	274.1
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: P320808  
 CATALOG NUMBER: GLEON-SA4C-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

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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.

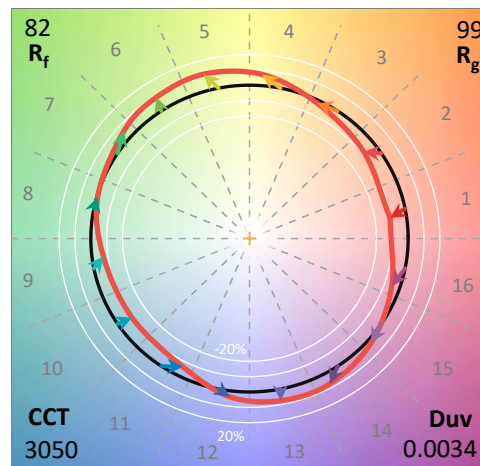
**Test Information**

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



**Test Conditions**

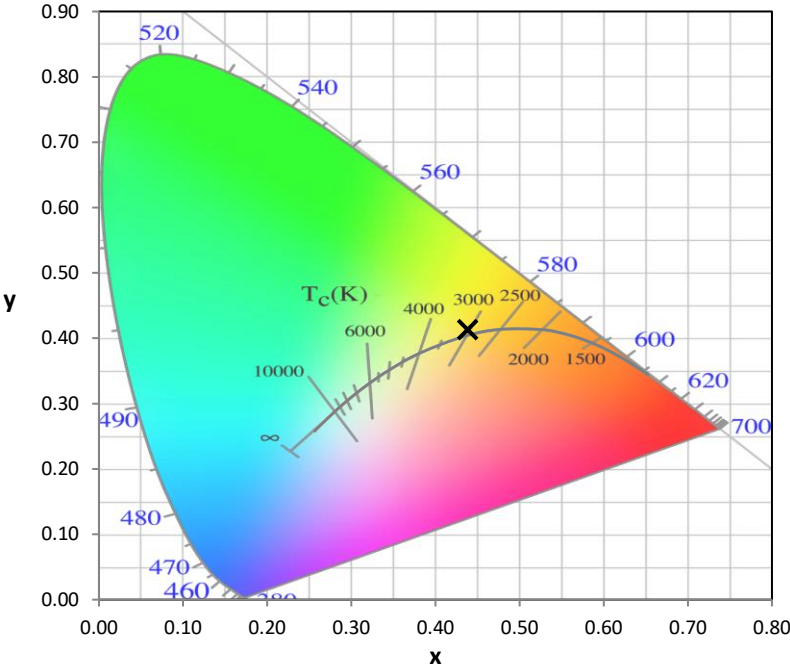
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

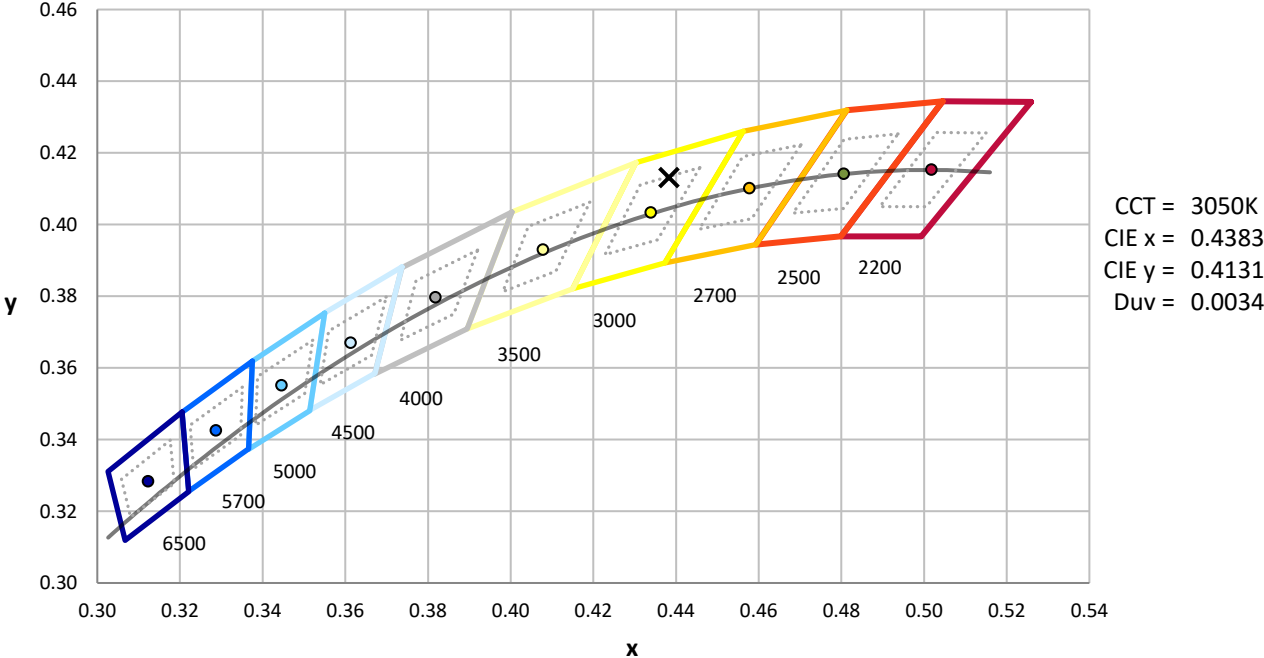
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

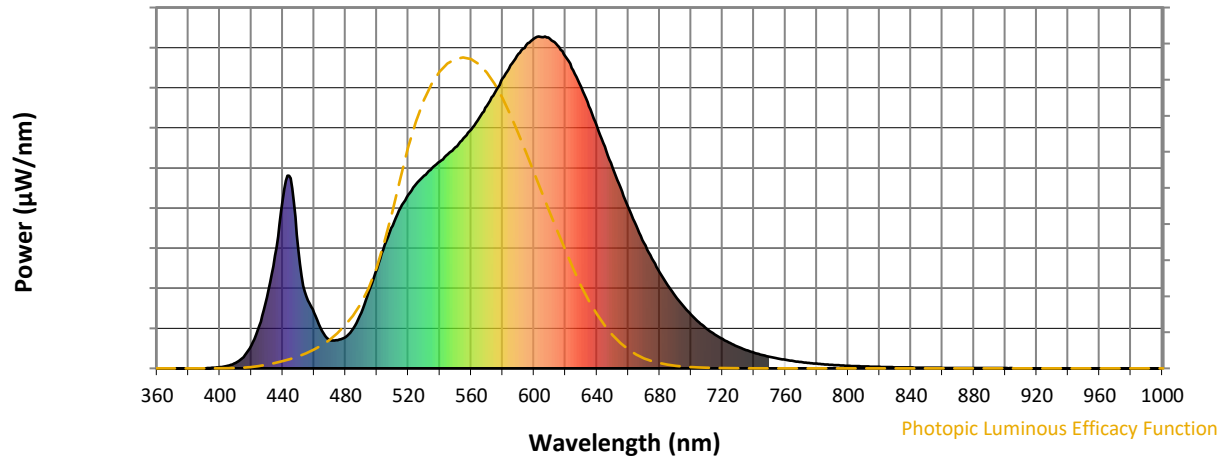


Point lies inside the ANSI 3000K 4-step quadrangle



REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**

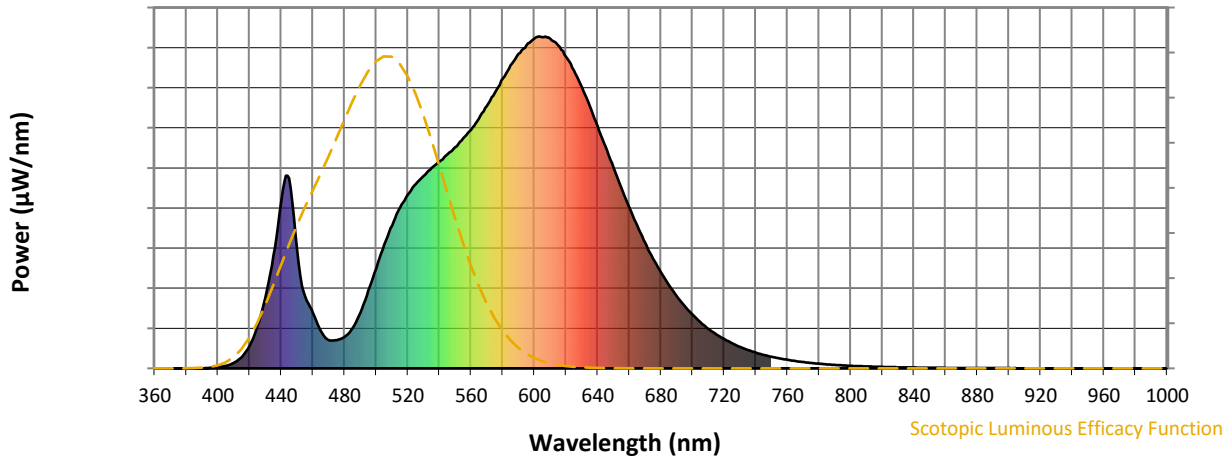


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



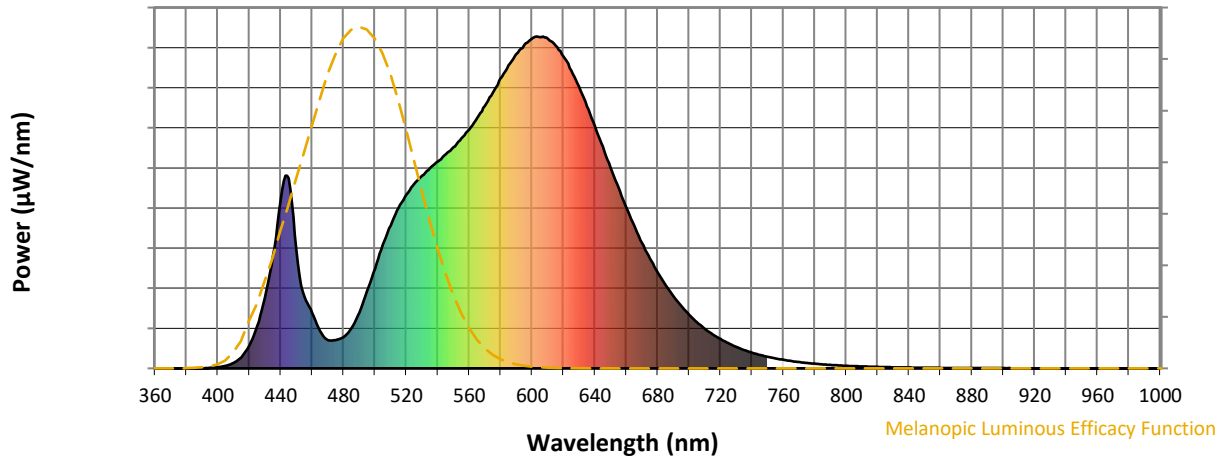
**Scotopic Lumens: NR**

**S/P: 1.27**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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



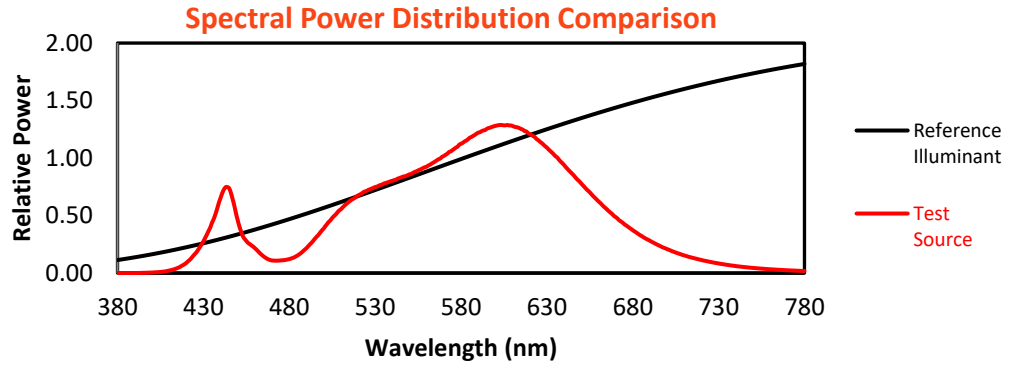
Melanopic Lumens: NR

M/P: 2.32

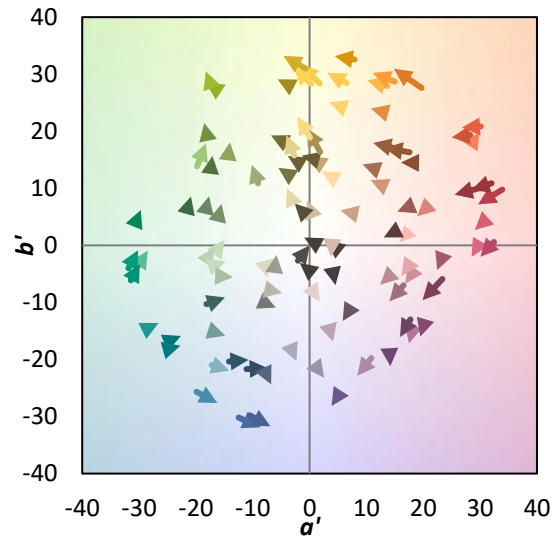
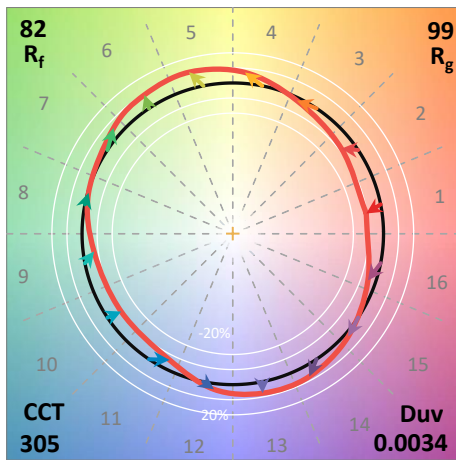
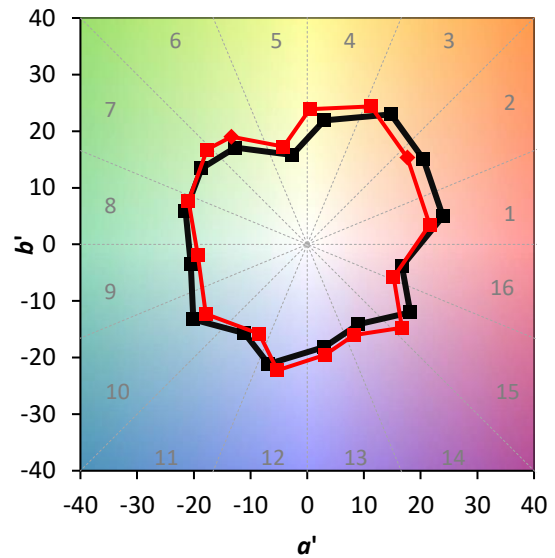
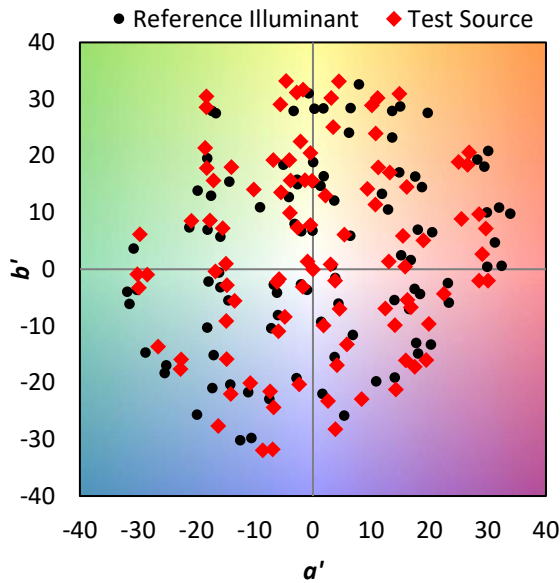
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	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			

**Summary**

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

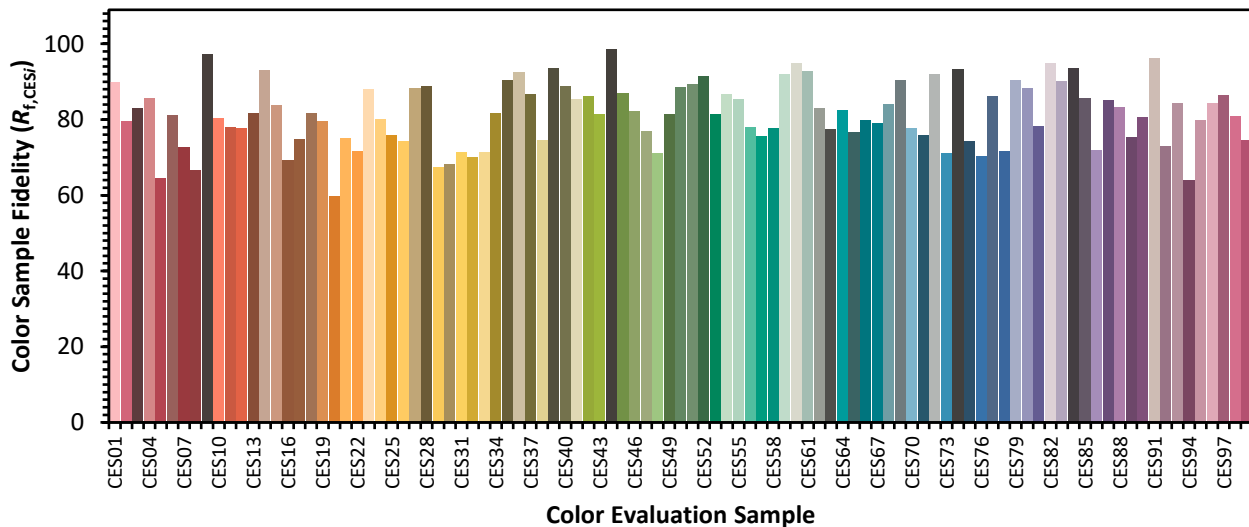


**Color Vector Graphics**

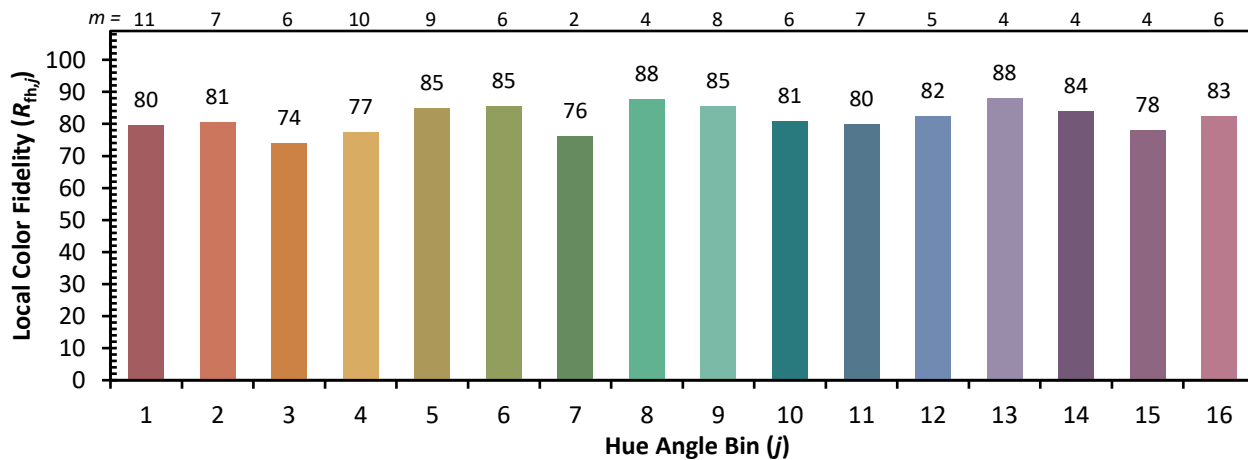
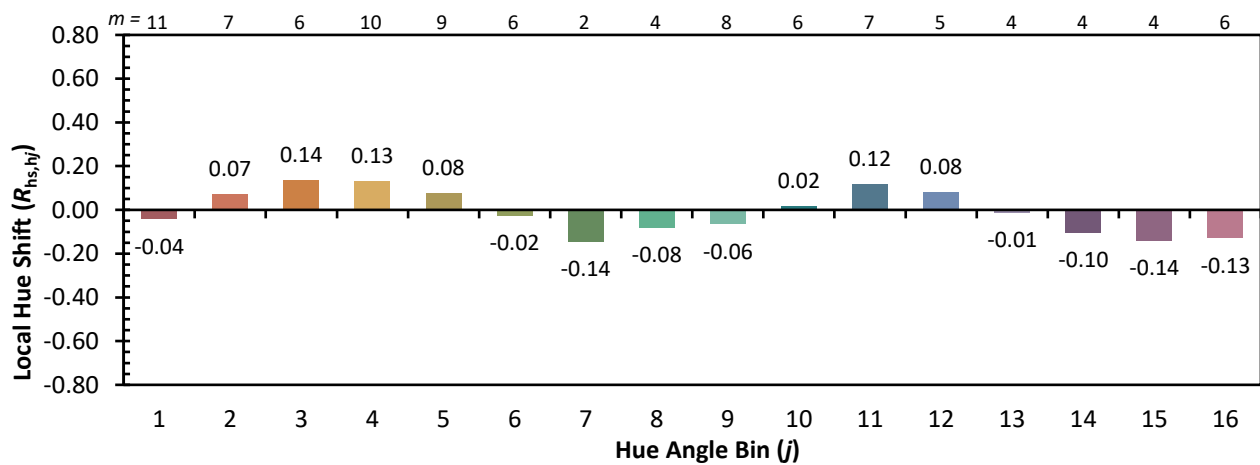
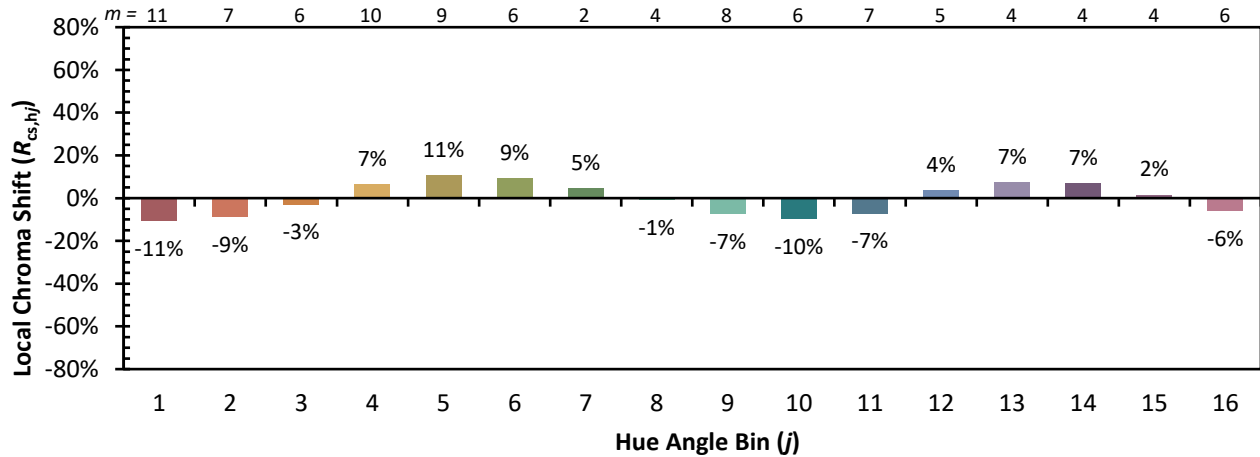


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

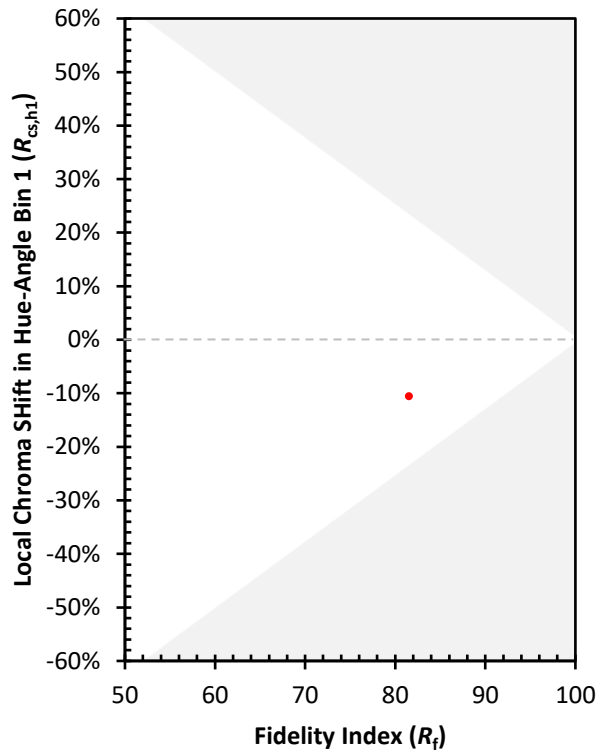
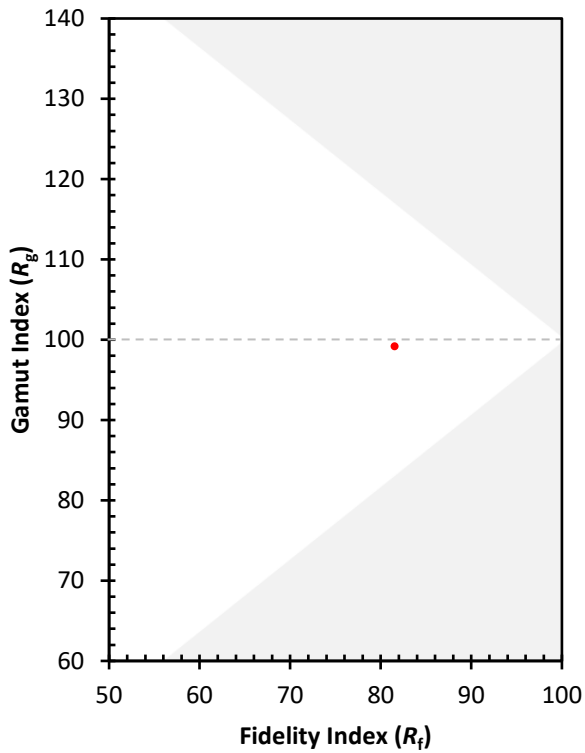
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)