

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: P320805

Luminaire Tested: **GLEON-SA1C-830-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320805  
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-SA1C-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5173 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

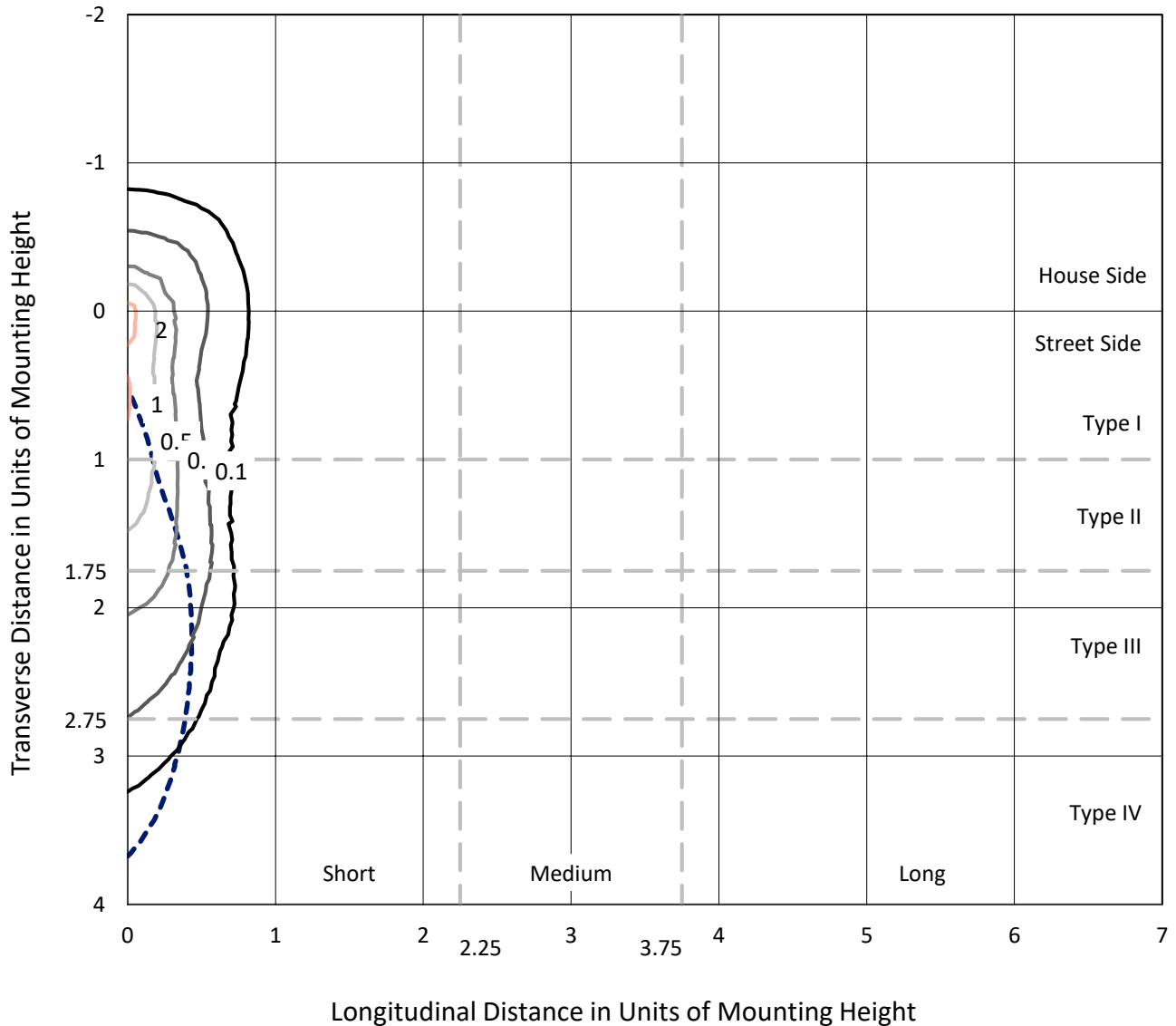
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

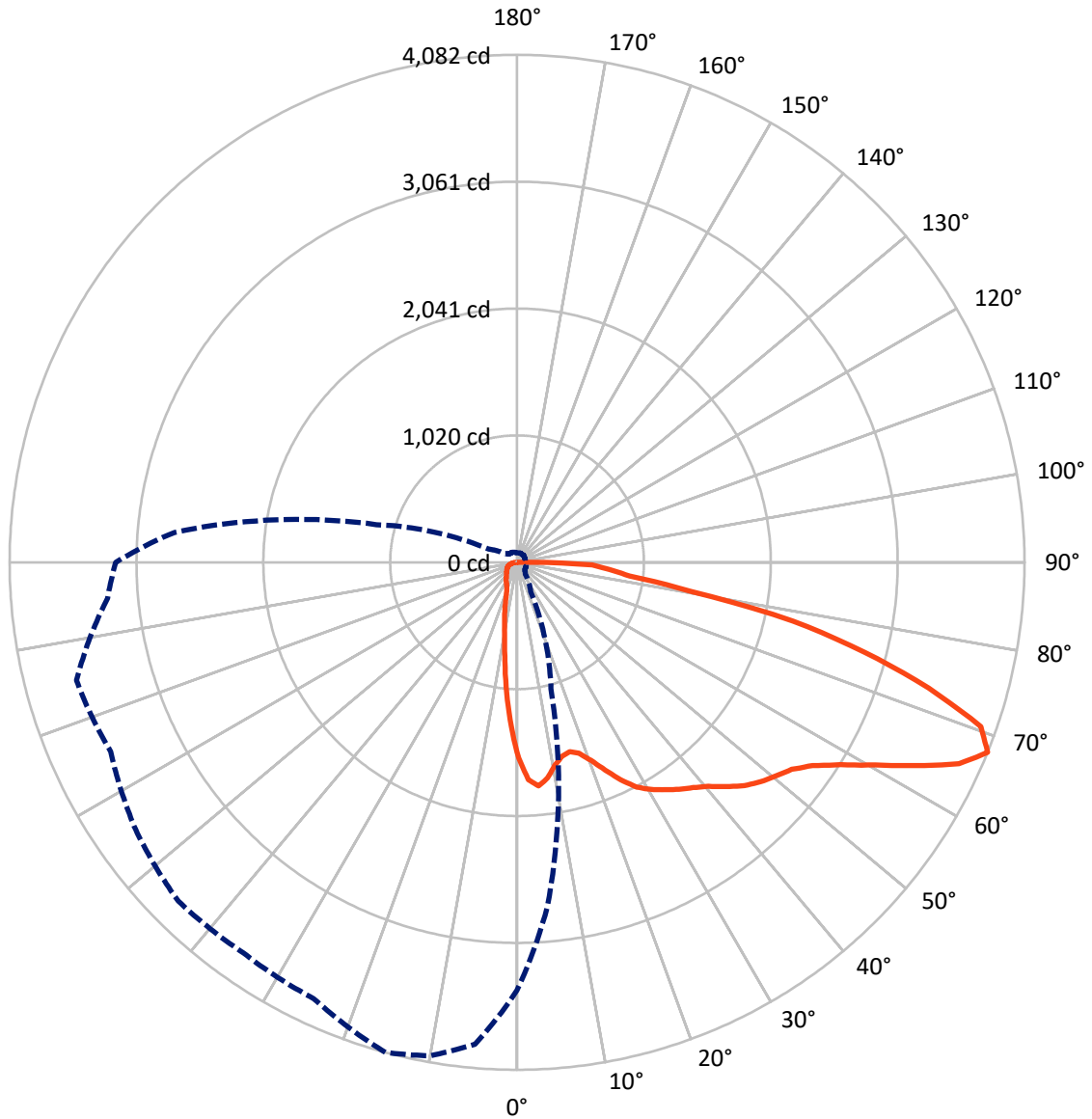
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	894.3	0.0	894.3
	% Fixture	17.3	0.0	17.3
<b>Street Side</b>	Lumens	4278.7	0.0	4278.7
	% Fixture	82.7	0.0	82.7
<b>Total</b>	Lumens	5173.0	0.0	5173.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	2.4
10°-20°	252.7	4.9
20°-30°	359.4	6.9
30°-40°	517.8	10.0
40°-50°	729.8	14.1
50°-60°	1014.5	19.6
60°-70°	1226.9	23.7
70°-80°	754.1	14.6
80°-90°	196.2	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°	5173.0	100.0
0°-180°	5173.0	100.0

**Coefficient of Utilization**

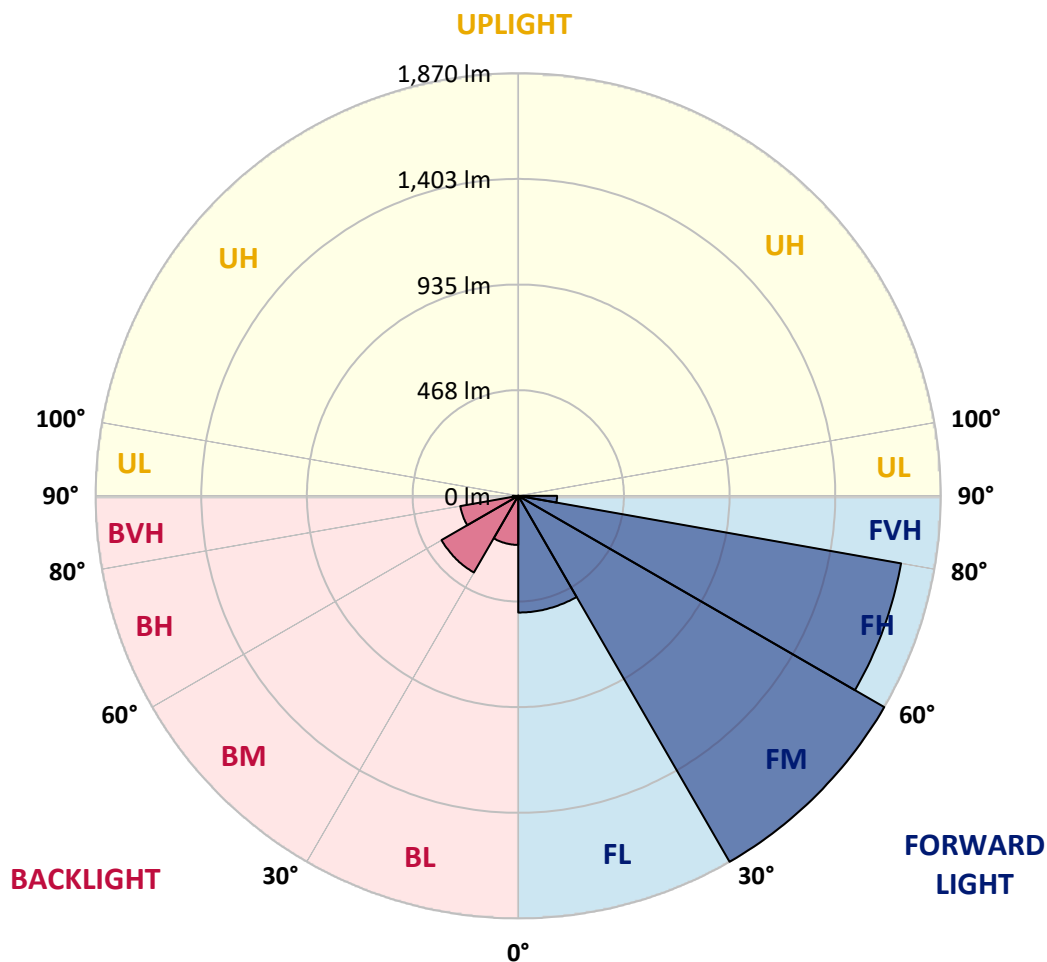


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.5	10.0			
FM (30°-60°)	1870.2	36.2			
FH (60°-80°)	1720.4	33.3			G1/1800
FVH (80°-90°)	171.6	3.3			G2/225
BL (0°-30°)	217.1	4.2	B1/500		
BM (30°-60°)	392.0	7.6	B1/1000		
BH (60°-80°)	260.6	5.0	B1/500		G1/500
BVH (80°-90°)	24.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1688.3	1673.4	1650.9	1628.3	1611.6	1594.6	1575.4	1556.1	1534.2	1512.1	1499.1
5°	1660.4	1619.0	1565.2	1511.5	1475.9	1440.3	1400.0	1359.7	1319.7	1279.8	1258.3
7.5°	1534.6	1472.6	1402.7	1332.8	1281.1	1229.1	1173.3	1117.3	1067.6	1017.8	987.0
10°	1410.9	1336.5	1256.2	1175.8	1109.6	1043.4	987.4	931.1	893.7	856.2	827.9
12.5°	1322.2	1239.7	1151.4	1062.9	996.7	930.5	894.9	859.3	828.3	797.3	764.6
15°	1287.1	1193.8	1103.4	1012.8	952.6	892.4	852.9	813.2	771.7	729.9	689.8
17.5°	1318.1	1208.9	1110.6	1012.4	933.6	854.8	799.6	744.1	689.3	634.5	588.0
20°	1414.9	1275.5	1147.0	1018.4	913.5	808.7	734.6	660.4	590.1	519.7	467.0
22.5°	1550.8	1366.3	1198.5	1030.8	895.3	759.7	666.8	573.7	490.6	407.4	355.7
25°	1715.8	1486.6	1272.8	1058.7	887.9	716.8	602.7	488.5	400.8	312.9	276.1
27.5°	1889.7	1630.2	1365.0	1099.7	889.1	678.6	548.7	418.6	339.6	260.6	235.4
30°	2034.7	1794.2	1472.6	1150.8	893.9	637.0	497.8	358.6	293.5	228.3	212.0
32.5°	2167.3	1908.6	1553.7	1198.5	899.3	599.8	458.5	317.1	263.9	210.5	197.1
35°	2304.2	2010.1	1610.3	1210.3	890.0	569.4	431.6	293.9	244.9	195.7	184.3
37.5°	2455.0	2119.9	1664.9	1209.7	874.2	538.8	410.8	282.5	232.5	182.2	173.9
40°	2623.1	2241.3	1724.1	1206.8	860.0	512.9	395.2	277.3	225.6	173.7	166.7
42.5°	2787.6	2357.2	1779.1	1201.0	848.4	495.5	379.9	264.3	219.4	174.4	164.4
45°	2911.0	2458.3	1826.9	1195.2	839.7	484.2	367.9	251.7	213.6	175.6	163.0
47.5°	3004.7	2559.8	1879.8	1199.6	838.9	478.2	359.5	240.7	202.7	164.4	159.3
50°	3123.9	2681.9	1957.0	1232.0	850.2	468.5	349.5	230.4	192.1	153.9	160.9
52.5°	3272.1	2856.0	2076.5	1296.8	874.0	451.3	333.8	216.3	179.3	142.1	153.0
55°	3489.9	3079.2	2229.3	1379.3	902.8	426.1	310.0	193.8	162.4	130.7	140.4
57.5°	3685.4	3304.6	2376.0	1447.1	920.8	394.2	280.0	165.9	143.3	120.8	126.4
60°	3772.4	3420.9	2444.6	1468.2	910.0	351.8	246.3	140.6	126.6	112.5	111.5
62.5°	3738.5	3347.0	2377.0	1407.0	857.5	308.0	216.5	125.1	114.6	103.8	101.6
65°	3639.3	3115.0	2187.6	1260.2	768.8	277.3	197.7	118.1	106.3	94.5	92.0
67.5°	3443.6	2784.7	1919.1	1053.6	656.0	258.5	187.0	115.4	101.1	86.7	83.8
70°	3092.4	2387.1	1609.9	832.5	539.8	246.9	179.9	112.9	95.6	78.0	75.3
72.5°	2540.0	1913.9	1285.6	657.1	451.3	245.5	179.1	112.7	91.0	69.3	66.8
75°	1818.6	1453.8	981.4	508.8	369.6	230.4	170.0	109.6	84.8	59.8	57.5
77.5°	1223.8	1006.2	682.1	357.8	274.2	190.7	142.9	95.1	72.6	50.1	47.8
80°	785.9	696.4	457.1	217.8	177.9	138.0	102.2	66.4	52.9	39.3	37.4
82.5°	576.6	518.3	317.7	117.1	98.9	80.5	62.5	44.5	36.2	27.9	27.1
85°	366.5	404.1	233.9	63.7	52.1	40.5	33.5	26.5	20.9	15.3	15.3
87.5°	71.1	98.4	64.7	30.8	22.5	14.3	12.2	9.9	5.6	1.0	1.2
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



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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°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1485.8	1471.5	1457.3	1441.1	1424.8	1409.7	1394.4	1377.6	1380.7	1367.9	1355.1
5°	1236.8	1214.1	1191.1	1171.2	1151.4	1134.2	1116.8	1101.3	1114.8	1105.7	1096.6
7.5°	955.9	927.8	899.5	875.7	851.9	833.5	814.9	802.1	815.3	813.6	812.0
10°	799.6	772.3	744.8	718.5	692.2	669.9	647.4	628.3	625.0	615.5	605.8
12.5°	731.7	694.3	656.7	629.2	601.6	575.0	548.3	526.0	515.8	500.1	484.2
15°	649.6	605.4	561.1	529.9	498.4	472.6	446.5	427.3	420.9	408.7	396.5
17.5°	541.5	493.1	444.7	413.0	381.2	360.5	339.6	326.8	326.8	323.3	319.7
20°	414.3	371.0	327.8	303.6	279.4	268.5	257.3	251.9	253.6	253.8	253.8
22.5°	303.8	277.3	250.9	241.2	231.2	227.3	223.4	221.1	221.9	222.1	222.3
25°	239.3	229.2	218.8	213.9	208.7	206.2	203.7	202.9	204.8	205.0	205.0
27.5°	210.1	203.9	197.5	194.4	191.1	190.1	189.0	187.6	189.4	189.4	189.2
30°	195.4	188.8	182.2	178.3	174.4	174.8	175.0	174.6	175.8	176.6	177.2
32.5°	183.5	177.0	170.6	166.7	162.6	161.9	161.3	160.9	163.6	165.0	166.5
35°	172.7	165.7	158.6	154.9	151.2	149.7	148.3	147.3	149.7	151.6	153.5
37.5°	165.5	158.2	150.8	147.3	143.5	141.7	139.8	138.6	139.6	140.4	141.3
40°	159.7	152.2	144.6	140.4	136.3	134.4	132.6	131.5	132.2	132.4	132.6
42.5°	154.3	147.1	139.8	135.3	130.5	128.2	126.0	124.7	125.1	125.5	125.7
45°	150.4	143.1	135.7	130.3	124.7	122.2	119.8	118.3	118.5	118.5	118.5
47.5°	154.1	143.5	132.8	126.6	120.2	117.3	114.4	112.9	112.5	112.1	111.7
50°	167.7	149.7	131.5	123.7	115.6	112.5	109.2	107.5	106.5	106.1	105.7
52.5°	163.8	148.3	132.6	122.4	112.1	108.4	104.7	102.0	100.9	100.3	99.7
55°	149.9	140.2	130.3	118.1	105.9	102.6	99.1	97.2	95.3	94.9	94.5
57.5°	131.7	127.8	123.9	111.5	99.1	96.0	92.7	91.4	89.8	89.8	89.6
60°	110.2	116.0	121.8	107.5	93.1	89.6	86.0	85.0	84.4	84.2	84.0
62.5°	99.1	108.6	117.9	102.8	87.5	83.8	80.0	78.8	78.6	78.8	78.8
65°	89.6	92.4	95.3	88.3	81.3	77.6	73.6	72.4	72.8	73.4	74.0
67.5°	80.9	80.2	79.6	77.1	74.5	71.4	68.0	66.8	67.0	67.8	68.7
70°	72.6	71.8	70.7	68.9	67.0	64.3	61.6	60.8	60.6	61.6	62.5
72.5°	64.3	63.3	62.0	60.6	58.9	56.7	54.4	53.8	54.0	54.6	55.2
75°	55.2	54.4	53.4	52.1	50.7	48.6	46.5	46.1	46.5	47.2	47.8
77.5°	45.3	45.1	44.7	43.6	42.6	40.3	37.8	37.6	38.3	38.9	39.3
80°	35.4	35.6	35.8	35.0	34.1	31.6	29.0	28.7	29.4	30.0	30.6
82.5°	26.1	26.7	27.1	26.1	25.0	22.1	19.2	18.8	20.9	21.5	22.1
85°	15.1	15.9	16.8	15.9	15.1	12.2	9.3	9.1	11.0	12.0	13.0
87.5°	1.2	1.7	2.1	1.9	1.7	0.8	0.0	0.0	0.2	1.0	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	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: P320805  
 CATALOG NUMBER: GLEON-SA1C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1347.0	1339.0	1336.5	1334.0	1324.9	1315.6	1325.1	1334.4	1338.4	1342.3	1332.1
5°	1095.3	1093.9	1093.9	1093.7	1085.4	1076.9	1083.3	1089.5	1075.7	1061.8	1060.4
7.5°	820.9	829.8	837.0	844.0	841.4	838.7	844.7	850.7	833.1	815.3	806.6
10°	607.9	609.7	617.6	625.4	627.3	628.9	636.4	643.6	630.0	616.3	610.3
12.5°	474.2	464.3	465.4	466.2	469.9	473.4	481.3	488.9	483.3	477.6	478.2
15°	384.1	371.5	366.3	360.9	365.0	369.2	374.8	380.1	380.3	380.3	385.7
17.5°	313.5	307.1	302.0	296.6	302.2	307.5	308.2	308.8	309.0	309.2	308.8
20°	256.9	260.0	258.3	256.7	258.7	260.6	262.3	263.7	261.8	259.8	254.6
22.5°	225.2	227.9	230.0	231.8	235.4	238.7	237.0	235.2	231.4	227.5	223.6
25°	206.8	208.7	210.8	212.8	215.7	218.4	215.5	212.6	209.9	207.2	204.5
27.5°	191.3	193.2	195.0	196.7	199.4	201.9	199.2	196.5	194.2	191.9	189.9
30°	178.7	179.9	181.4	182.8	185.3	187.6	185.3	182.8	181.2	179.3	177.9
32.5°	167.9	169.2	169.8	170.4	172.7	175.0	173.3	171.7	170.2	168.8	167.7
35°	156.2	158.6	159.0	159.5	161.7	164.0	163.0	161.7	160.1	158.4	156.6
37.5°	144.2	147.1	148.7	150.2	152.4	154.7	153.7	152.6	150.4	148.1	144.8
40°	134.0	135.3	138.4	141.3	145.0	148.5	146.4	144.2	140.6	137.1	135.5
42.5°	125.5	125.3	128.2	131.1	136.7	142.1	138.4	134.6	131.3	128.0	127.6
45°	118.1	117.5	118.9	120.4	126.4	132.2	128.4	124.5	122.6	120.8	120.8
47.5°	111.5	111.1	112.1	112.9	116.6	120.2	118.3	116.4	115.4	114.4	114.6
50°	105.5	105.1	106.1	106.9	108.4	109.6	110.0	110.2	109.6	109.0	109.4
52.5°	99.9	99.9	100.3	100.5	102.4	104.2	104.2	104.0	104.0	104.0	104.4
55°	95.1	95.6	95.6	95.6	98.4	101.1	100.3	99.5	99.7	99.7	100.1
57.5°	90.4	91.0	91.4	91.8	94.7	97.6	96.8	96.0	96.0	96.0	96.2
60°	85.0	85.8	86.7	87.5	90.4	93.3	92.4	91.4	91.6	91.8	92.0
62.5°	79.8	80.7	81.5	82.3	85.2	88.1	87.3	86.2	86.9	87.3	87.3
65°	74.9	75.5	76.3	77.1	79.8	82.5	81.7	80.9	81.7	82.3	82.7
67.5°	69.3	69.7	70.5	71.4	74.0	76.7	75.9	74.9	75.9	76.7	77.6
70°	62.9	63.3	64.3	65.1	67.8	70.5	69.5	68.5	69.5	70.5	71.4
72.5°	55.8	56.3	57.3	58.1	61.2	64.3	63.1	61.8	63.1	64.3	64.7
75°	48.2	48.6	49.8	50.9	54.0	57.1	56.0	54.8	55.8	56.9	57.1
77.5°	39.9	40.5	42.2	43.8	46.3	48.8	48.2	47.6	48.2	48.8	48.8
80°	31.2	31.9	33.9	35.8	37.2	38.7	38.9	39.1	39.3	39.5	39.3
82.5°	23.2	24.0	25.9	27.7	27.7	27.7	29.4	30.8	30.8	30.6	30.4
85°	14.3	15.3	17.0	18.6	17.6	16.5	19.2	21.7	21.7	21.5	21.1
87.5°	2.9	3.9	5.6	7.0	6.0	5.0	7.7	10.3	10.5	10.5	10.1
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: P320805  
 CATALOG NUMBER: GLEON-SA1C-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: P320805  
 CATALOG NUMBER: GLEON-SA1C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1321.8	1337.9	1353.9	1358.0	1364.2	1366.9	1369.4	1389.6	1409.7	1433.3	1456.9
5°	1058.7	1070.7	1082.7	1084.6	1091.0	1094.3	1097.6	1122.2	1146.6	1179.5	1212.4
7.5°	797.9	800.8	803.7	803.3	808.7	815.9	822.9	849.2	875.3	910.6	945.8
10°	604.3	611.0	617.4	623.4	635.2	648.8	662.2	689.1	716.0	751.0	785.7
12.5°	478.8	486.4	493.9	500.5	514.2	532.4	550.4	582.6	614.9	656.7	698.2
15°	390.9	390.3	389.7	394.2	406.2	426.1	445.7	479.8	514.0	559.9	605.6
17.5°	308.4	305.3	302.2	305.7	316.9	333.2	349.3	378.3	407.0	451.5	496.0
20°	249.4	247.4	245.3	248.6	255.6	262.5	269.3	290.2	310.9	347.0	383.0
22.5°	219.4	219.2	218.8	220.7	224.0	227.5	230.8	240.9	250.9	274.2	297.4
25°	201.9	201.7	201.4	202.3	205.0	207.7	210.3	217.0	223.6	234.7	245.9
27.5°	187.8	187.4	187.0	187.2	187.8	191.9	195.9	199.0	201.9	209.5	217.0
30°	176.4	176.2	176.0	176.0	175.4	176.8	178.3	183.0	187.6	195.4	203.3
32.5°	166.7	165.7	164.6	162.4	160.9	163.0	165.0	170.0	175.0	182.2	189.4
35°	154.5	151.8	148.9	147.7	147.9	149.9	152.0	157.0	161.7	169.6	177.2
37.5°	141.3	140.4	139.4	139.2	139.8	141.9	143.9	148.3	152.4	160.3	167.9
40°	133.8	133.4	133.0	132.6	133.0	135.1	137.1	141.3	145.2	152.8	160.3
42.5°	127.2	127.0	126.8	126.8	127.0	129.3	131.5	135.7	139.6	146.4	153.3
45°	120.8	121.0	121.0	121.4	122.0	124.3	126.4	130.9	135.5	142.1	148.7
47.5°	114.8	115.4	115.8	116.9	117.5	120.0	122.2	127.2	132.2	140.4	148.5
50°	109.6	110.2	110.7	111.5	113.1	116.0	118.9	124.9	130.7	144.6	158.2
52.5°	104.9	105.5	106.1	106.9	109.0	112.3	115.6	123.1	130.3	146.4	162.6
55°	100.5	101.1	101.6	102.8	104.9	107.8	110.4	119.5	128.6	140.4	152.2
57.5°	96.4	97.0	97.4	98.2	99.3	102.4	105.3	115.0	124.7	133.0	141.1
60°	92.0	92.4	92.7	92.7	93.5	97.0	100.5	112.9	125.1	123.7	122.0
62.5°	87.3	87.7	87.9	87.3	88.3	92.0	95.8	111.9	128.0	118.1	108.2
65°	82.9	82.7	82.5	81.9	83.1	86.9	90.4	98.4	106.5	102.6	98.7
67.5°	78.2	77.6	76.9	76.1	77.4	80.7	83.8	86.5	89.1	89.6	90.0
70°	72.2	71.4	70.5	70.3	70.9	73.6	76.3	78.2	79.8	80.7	81.3
72.5°	65.1	64.5	63.9	63.5	63.7	66.0	68.0	69.7	71.4	72.0	72.4
75°	57.3	57.3	57.1	55.8	55.8	57.7	59.4	60.8	62.3	63.1	63.9
77.5°	48.8	49.0	49.0	47.4	47.2	49.0	50.7	51.9	52.9	53.8	54.4
80°	39.1	38.7	38.3	37.2	36.8	39.1	41.2	42.2	43.0	43.2	43.2
82.5°	30.0	29.2	28.1	25.9	26.1	28.5	30.8	31.6	32.5	32.5	32.5
85°	20.5	18.8	17.0	15.1	15.3	18.0	20.5	21.3	22.1	22.5	22.8
87.5°	9.7	8.1	6.2	4.8	4.8	7.0	9.1	9.5	9.9	10.8	11.6
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: P320805  
 CATALOG NUMBER: GLEON-SA1C-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: P320805  
 CATALOG NUMBER: GLEON-SA1C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1474.9	1492.6	1511.0	1529.5	1550.6	1571.6	1596.3	1620.7	1641.6	1662.4	1679.8
5°	1240.7	1269.1	1302.4	1335.7	1378.1	1420.5	1472.4	1524.1	1570.2	1616.3	1669.9
7.5°	982.8	1019.6	1063.1	1106.5	1161.3	1216.1	1283.3	1350.6	1415.7	1480.6	1563.0
10°	824.4	863.1	905.9	948.5	1004.3	1060.0	1131.1	1202.1	1275.3	1348.3	1441.3
12.5°	741.3	784.1	821.7	859.3	904.6	949.7	1018.6	1087.5	1173.5	1259.3	1348.9
15°	652.5	699.3	744.4	789.4	838.9	888.1	955.1	1022.1	1116.2	1210.3	1313.3
17.5°	545.2	594.4	649.4	704.2	768.8	833.1	918.9	1004.7	1116.2	1227.5	1348.9
20°	433.3	483.6	549.3	615.1	695.3	775.4	886.6	997.9	1148.1	1298.0	1452.9
22.5°	341.9	386.1	457.9	529.5	622.1	714.8	857.5	1000.0	1196.3	1392.3	1601.4
25°	277.1	308.4	378.9	449.2	556.1	663.1	839.7	1016.1	1266.4	1516.4	1775.8
27.5°	237.4	257.9	323.7	389.2	506.1	622.7	832.5	1042.0	1355.3	1668.6	1965.4
30°	217.6	231.8	287.5	342.9	461.6	580.3	823.8	1067.2	1440.9	1814.5	2113.7
32.5°	201.0	212.4	260.0	307.3	423.2	539.0	807.0	1074.9	1500.7	1926.6	2239.3
35°	187.0	196.5	237.8	279.2	393.0	506.7	778.9	1051.1	1538.1	2025.2	2370.0
37.5°	175.6	183.0	221.3	259.6	366.9	474.2	746.8	1019.4	1571.4	2123.5	2517.0
40°	166.7	173.1	208.9	244.7	342.1	439.5	719.3	999.0	1617.4	2235.8	2672.4
42.5°	161.7	170.0	198.1	226.1	318.5	411.0	697.2	983.4	1660.0	2336.3	2808.2
45°	160.5	172.3	192.6	212.8	300.9	389.0	677.6	965.9	1687.5	2409.1	2910.6
47.5°	158.4	168.1	188.2	208.3	292.2	376.0	667.0	957.8	1715.0	2471.9	2995.6
50°	159.7	160.9	184.7	208.3	291.0	373.7	679.0	984.3	1774.5	2564.6	3092.8
52.5°	157.4	152.0	178.1	204.1	290.8	377.5	713.5	1049.6	1885.2	2720.5	3198.1
55°	145.4	138.4	165.7	193.0	286.4	379.7	754.7	1129.5	2033.7	2937.7	3387.3
57.5°	134.8	128.4	151.6	174.6	273.2	371.9	797.1	1222.1	2190.7	3159.0	3600.6
60°	120.8	119.3	135.9	152.4	252.7	352.8	832.0	1311.1	2296.1	3281.0	3682.7
62.5°	109.2	110.0	122.2	134.4	227.1	319.5	843.6	1367.5	2293.3	3219.0	3600.0
65°	100.3	101.8	113.8	125.7	205.2	284.6	805.6	1326.4	2177.2	3027.9	3436.4
67.5°	91.6	93.3	107.5	121.6	185.7	249.6	710.4	1171.0	1968.5	2765.8	3228.3
70°	83.3	85.4	100.9	116.4	171.7	226.7	587.8	948.9	1707.3	2465.5	2987.3
72.5°	74.5	76.5	93.1	109.6	162.8	215.7	479.2	742.5	1385.5	2028.3	2555.3
75°	65.4	66.8	84.8	102.6	150.6	198.5	376.0	553.3	1060.4	1567.5	1930.1
77.5°	56.3	58.1	73.2	88.1	127.8	167.3	283.3	399.4	778.1	1156.6	1342.3
80°	44.9	46.5	57.3	67.8	98.7	129.3	194.8	260.4	535.5	810.5	915.2
82.5°	34.3	36.2	43.4	50.5	70.3	90.2	118.1	146.0	355.7	565.2	573.9
85°	23.6	24.2	29.4	34.3	43.4	52.5	67.6	82.7	235.4	388.0	323.3
87.5°	11.8	11.8	15.3	18.8	23.4	27.9	35.8	43.4	75.3	107.1	61.6
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: P320805  
 CATALOG NUMBER: GLEON-SA1C-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: P320805

CATALOG NUMBER: GLEON-SA1C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1701.9	1717.0	1732.3	1743.9	1755.7	1772.7	1789.6	1792.7	1796.0	1789.4	1782.8
5°	1723.9	1769.6	1815.5	1857.9	1900.3	1925.7	1951.2	1956.3	1961.5	1945.6	1929.5
7.5°	1642.6	1722.2	1801.8	1874.8	1947.9	1992.1	2036.6	2046.5	2056.6	2030.6	2004.5
10°	1534.0	1631.8	1729.7	1825.8	1922.0	1986.3	2050.6	2063.5	2076.3	2043.8	2011.4
12.5°	1450.0	1554.5	1658.9	1760.3	1861.8	1928.4	1995.0	2010.9	2026.9	2003.3	1979.5
15°	1424.2	1522.4	1620.7	1709.0	1797.5	1851.9	1906.5	1912.9	1919.5	1915.8	1912.1
17.5°	1471.1	1559.9	1648.8	1696.8	1745.0	1766.7	1788.6	1795.6	1802.9	1812.2	1821.7
20°	1584.9	1647.3	1710.0	1707.9	1705.7	1695.1	1684.4	1682.5	1680.6	1707.3	1734.2
22.5°	1754.7	1779.5	1804.5	1746.4	1688.3	1652.9	1617.4	1610.3	1603.1	1631.4	1660.0
25°	1939.0	1934.4	1929.7	1819.0	1708.2	1640.7	1573.3	1565.4	1557.6	1581.8	1606.2
27.5°	2121.4	2091.6	2061.8	1911.5	1761.1	1663.3	1565.4	1557.6	1549.7	1571.2	1592.7
30°	2255.2	2207.4	2159.6	1989.4	1819.2	1703.0	1586.7	1573.9	1560.9	1587.4	1613.8
32.5°	2359.6	2295.5	2231.4	2052.7	1874.0	1748.3	1622.5	1602.5	1582.4	1617.8	1653.1
35°	2463.9	2373.7	2283.3	2109.2	1934.8	1801.8	1668.6	1644.0	1619.4	1668.0	1716.6
37.5°	2595.0	2465.5	2335.9	2172.7	2009.5	1882.1	1754.5	1729.2	1704.0	1765.9	1827.9
40°	2737.3	2564.6	2391.9	2242.2	2092.4	1993.2	1893.7	1869.7	1845.5	1920.8	1996.0
42.5°	2855.6	2656.8	2458.1	2325.9	2193.6	2123.7	2053.5	2053.3	2052.9	2129.2	2205.6
45°	2951.8	2733.8	2515.6	2407.6	2299.5	2263.1	2226.7	2255.8	2285.0	2353.9	2422.9
47.5°	3023.5	2798.3	2572.9	2501.1	2429.3	2434.7	2440.1	2499.5	2558.8	2603.1	2647.5
50°	3070.3	2856.8	2643.2	2621.1	2598.9	2647.1	2695.5	2763.6	2831.8	2862.0	2892.2
52.5°	3138.3	2936.3	2734.0	2758.8	2783.6	2882.1	2980.5	3049.4	3118.3	3129.4	3140.8
55°	3295.7	3082.3	2868.6	2916.2	2964.0	3108.3	3252.9	3306.7	3360.5	3364.6	3368.7
57.5°	3519.3	3286.8	3054.4	3105.7	3156.9	3323.6	3490.5	3548.5	3606.6	3598.5	3590.2
60°	3686.6	3481.0	3275.2	3327.0	3378.7	3541.2	3703.8	3770.4	3837.2	3819.4	3801.6
62.5°	3697.0	3587.1	3477.1	3523.8	3570.8	3730.1	3889.3	3957.8	4026.2	3995.2	3964.2
65°	3532.5	3581.8	3631.0	3646.5	3662.0	3810.5	3959.2	4011.5	4064.1	4048.4	4032.6
67.5°	3306.1	3487.4	3669.0	3637.8	3606.6	3676.3	3746.0	3800.0	3853.9	3845.0	3835.9
70°	3080.0	3322.2	3564.4	3410.9	3257.3	3228.5	3199.8	3257.9	3316.2	3280.2	3244.0
72.5°	2695.1	2953.2	3211.5	2928.8	2646.1	2547.9	2449.6	2523.4	2597.3	2540.0	2482.5
75°	2115.6	2400.8	2686.2	2348.9	2011.6	1880.4	1749.3	1812.8	1876.3	1837.0	1797.5
77.5°	1575.0	1856.0	2137.1	1794.2	1451.1	1353.7	1256.0	1274.9	1293.9	1287.3	1280.4
80°	1068.2	1264.1	1460.2	1231.8	1003.5	1011.0	1018.6	1009.7	1000.6	1013.8	1027.1
82.5°	681.7	832.9	984.3	863.1	741.9	811.4	880.9	846.7	812.4	825.0	837.8
85°	389.0	536.9	685.0	638.5	591.7	632.3	673.0	620.1	567.1	590.3	613.6
87.5°	102.6	297.0	491.6	446.3	401.0	348.5	296.0	225.9	155.7	227.5	299.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320805  
 CATALOG NUMBER: GLEON-SA1C-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: P320805  
 CATALOG NUMBER: GLEON-SA1C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1779.3	1775.8	1763.2	1750.3	1731.3	1715.6	1688.3
5°	1907.1	1884.8	1846.3	1807.6	1764.6	1715.2	1660.4
7.5°	1952.4	1900.1	1826.2	1752.2	1685.6	1607.4	1534.6
10°	1933.2	1854.8	1758.8	1662.6	1581.8	1491.8	1410.9
12.5°	1896.4	1813.0	1707.3	1601.4	1509.4	1412.8	1322.2
15°	1845.7	1779.1	1680.0	1581.0	1488.3	1394.4	1287.1
17.5°	1790.3	1758.6	1687.1	1615.3	1535.0	1444.0	1318.1
20°	1745.6	1757.2	1728.6	1700.1	1635.8	1556.3	1414.9
22.5°	1715.4	1771.0	1792.9	1815.1	1776.4	1714.4	1550.8
25°	1698.4	1790.7	1864.1	1937.7	1920.6	1872.8	1715.8
27.5°	1705.9	1819.0	1933.0	2047.1	2063.1	2049.8	1889.7
30°	1728.2	1842.8	1981.6	2120.6	2184.0	2201.8	2034.7
32.5°	1765.4	1877.7	2028.9	2180.3	2276.3	2333.0	2167.3
35°	1821.7	1926.8	2084.4	2242.0	2366.1	2469.5	2304.2
37.5°	1918.3	2008.7	2154.1	2299.7	2460.6	2615.9	2455.0
40°	2059.7	2123.7	2246.5	2369.6	2572.0	2781.8	2623.1
42.5°	2238.2	2271.1	2368.5	2465.9	2688.5	2932.3	2787.6
45°	2431.6	2440.3	2501.5	2562.9	2780.7	3034.9	2911.0
47.5°	2617.8	2588.0	2612.4	2636.8	2851.5	3108.1	3004.7
50°	2809.3	2726.3	2713.5	2700.7	2922.2	3194.4	3123.9
52.5°	3004.1	2867.4	2816.7	2765.8	3006.6	3308.8	3272.1
55°	3194.8	3020.9	2952.6	2884.4	3135.6	3448.4	3489.9
57.5°	3393.1	3196.0	3132.7	3069.5	3325.3	3625.2	3685.4
60°	3606.6	3411.3	3360.7	3309.8	3561.1	3816.3	3772.4
62.5°	3809.1	3653.9	3627.3	3600.4	3799.5	3963.1	3738.5
65°	3944.3	3855.8	3880.6	3905.6	3979.9	3999.7	3639.3
67.5°	3853.9	3871.9	3976.8	4081.9	4030.8	3891.0	3443.6
70°	3351.8	3459.7	3708.1	3956.7	3843.4	3599.5	3092.4
72.5°	2603.7	2725.1	3093.9	3462.8	3358.4	3059.7	2540.0
75°	1934.4	2071.5	2478.6	2885.6	2740.6	2288.7	1818.6
77.5°	1372.3	1464.1	1866.0	2268.0	2031.6	1523.5	1223.8
80°	999.0	970.8	1194.8	1418.8	1379.5	1007.6	785.9
82.5°	769.2	700.5	806.0	911.5	905.7	699.3	576.6
85°	586.1	558.6	651.9	745.2	665.3	473.6	366.5
87.5°	341.7	384.3	494.1	604.1	453.4	143.7	71.1
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: P320805  
 CATALOG NUMBER: GLEON-SA1C-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.

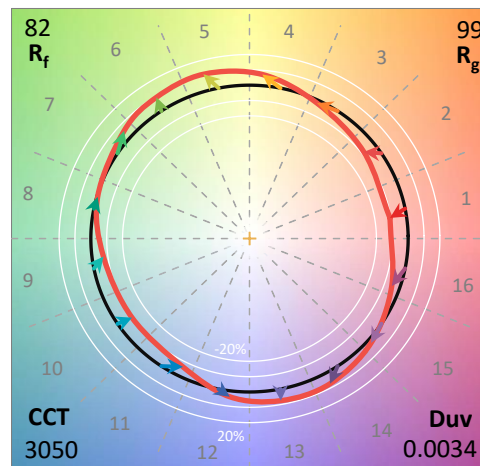
**Test Information**

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**

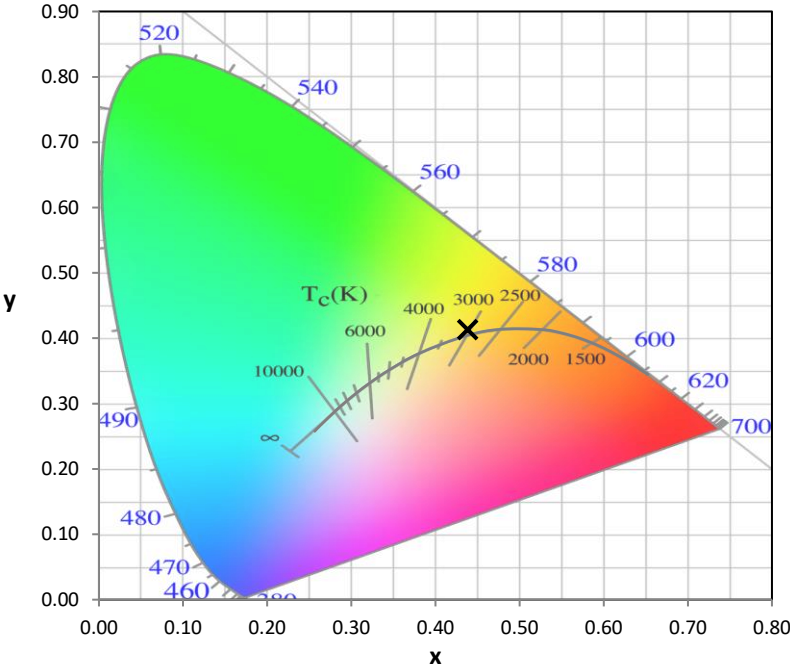
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

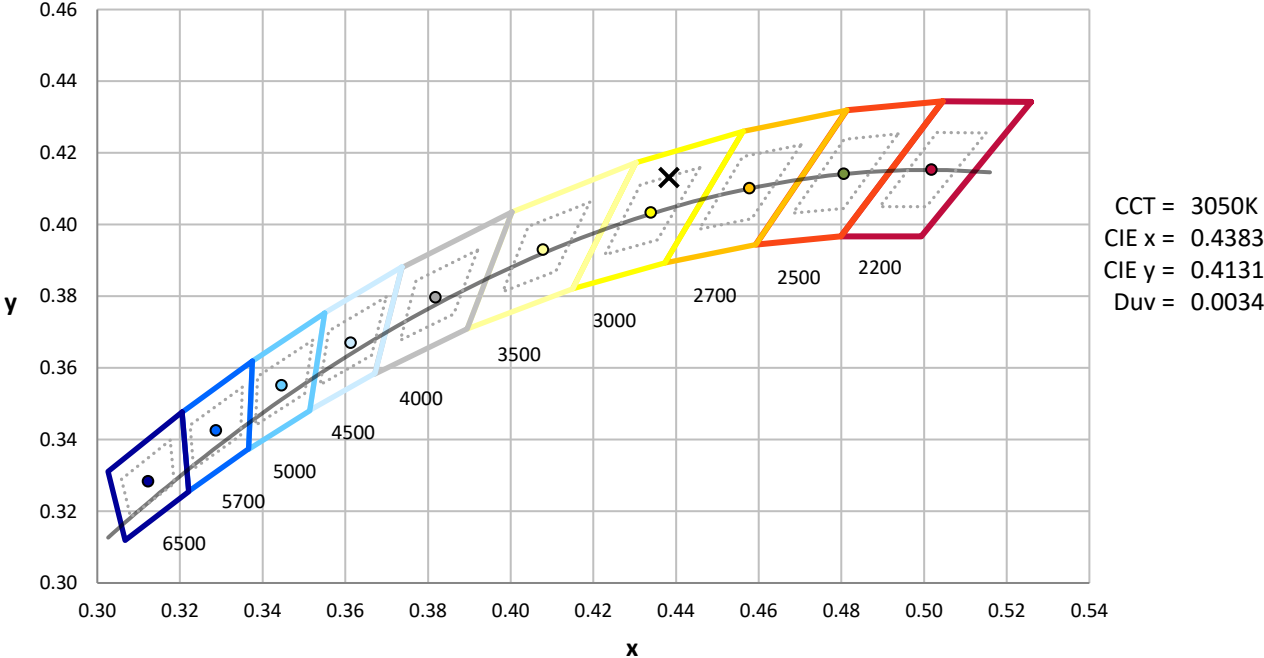
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

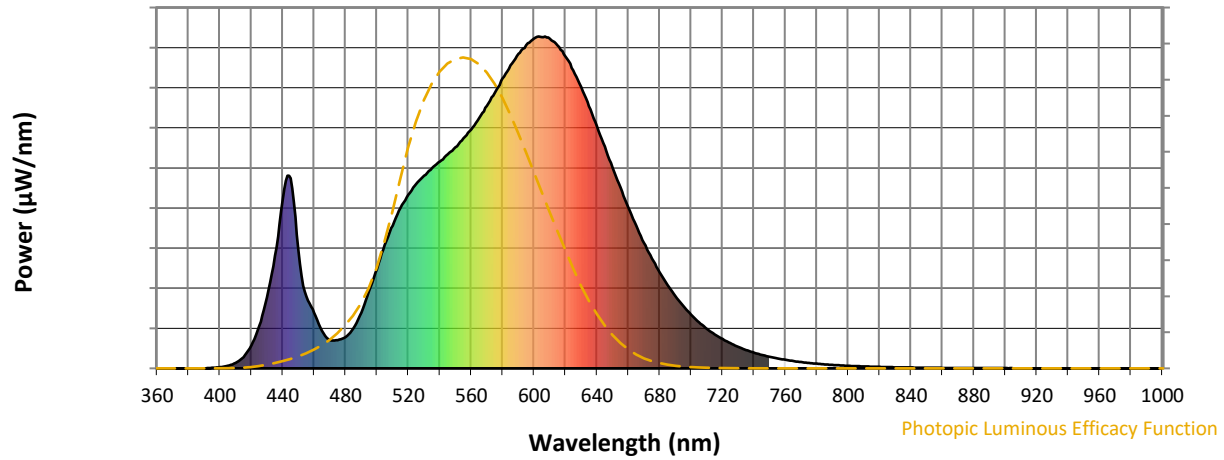


Point lies inside the ANSI 3000K 4-step quadrangle



REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**

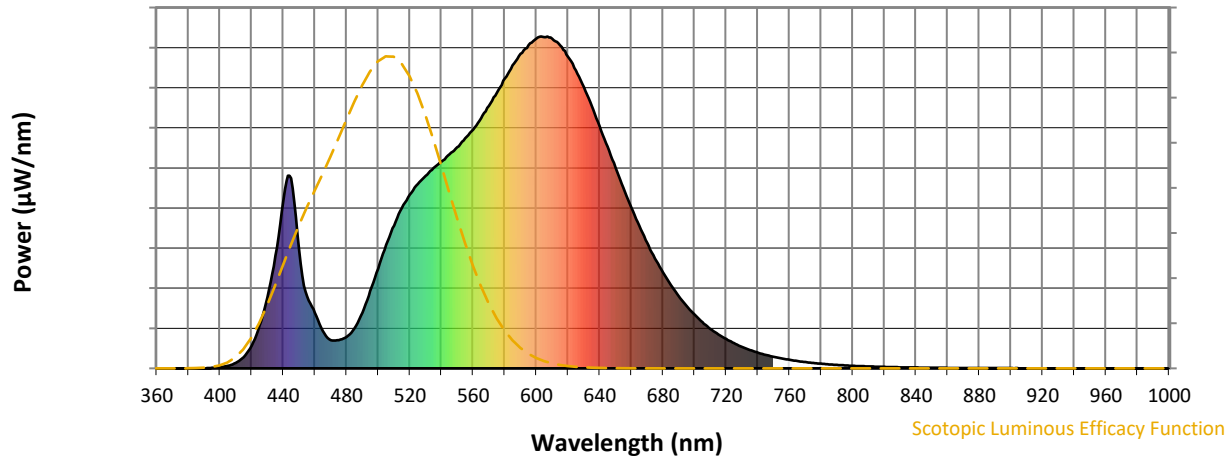


**Photopic Lumens: NR**

$\lambda$ (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**



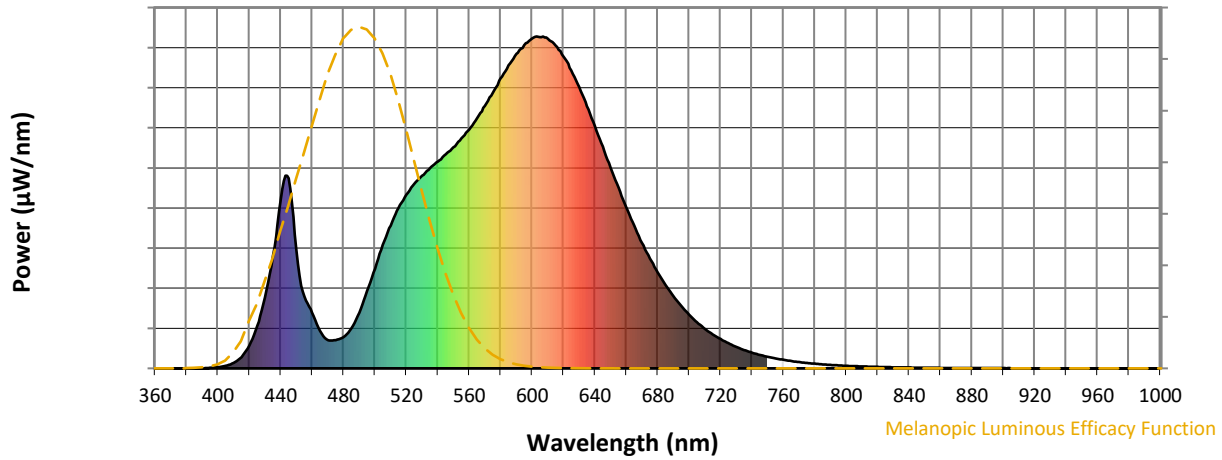
**Scotopic Lumens: NR**

**S/P: 1.27**

$\lambda$ (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

**Melanopic Flux vs. Wavelength**



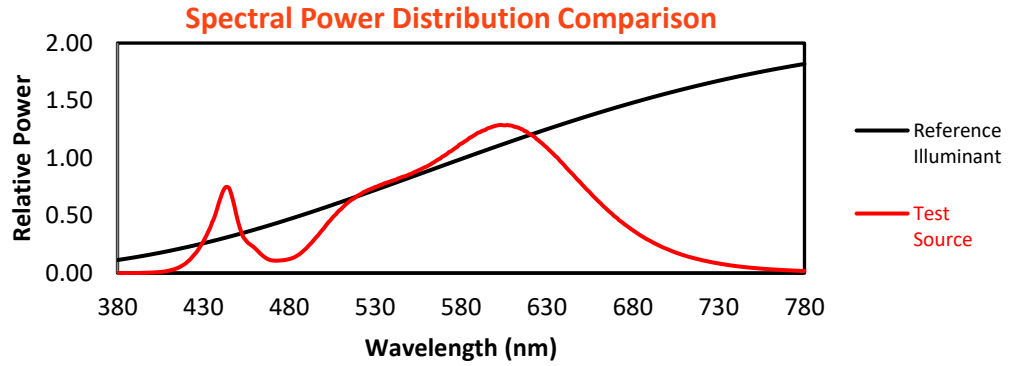
**Melanopic Lumens: NR**

**M/P: 2.32**

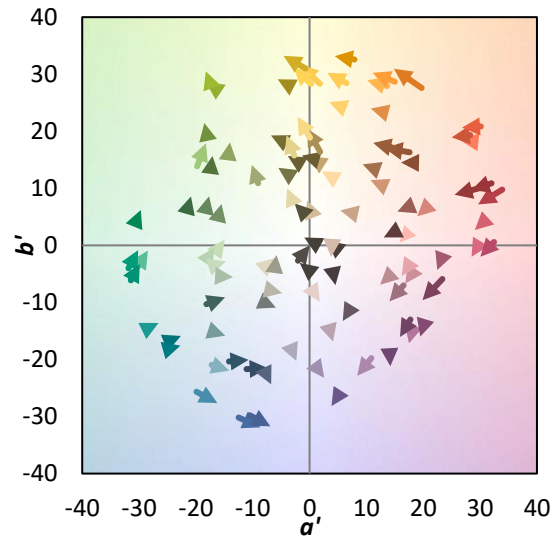
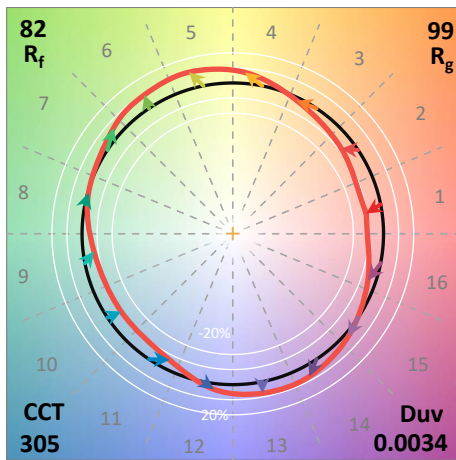
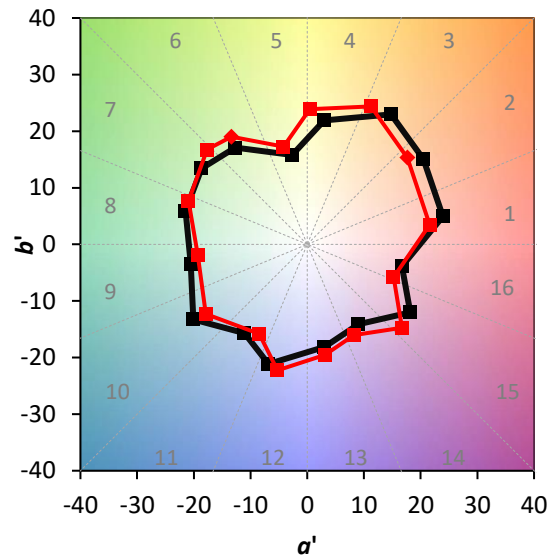
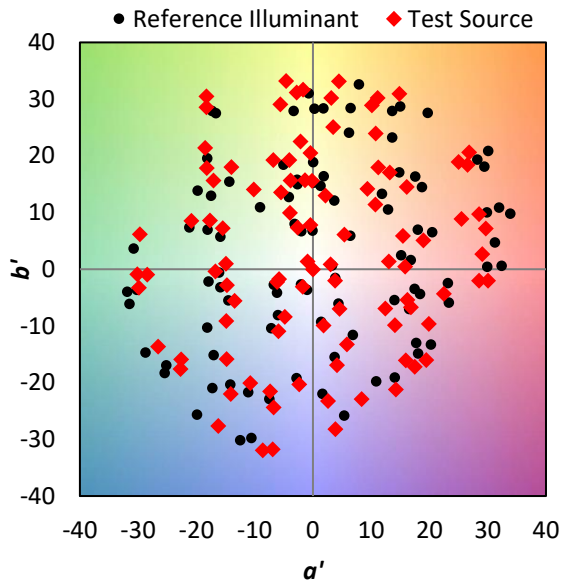
$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)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

**Summary**

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

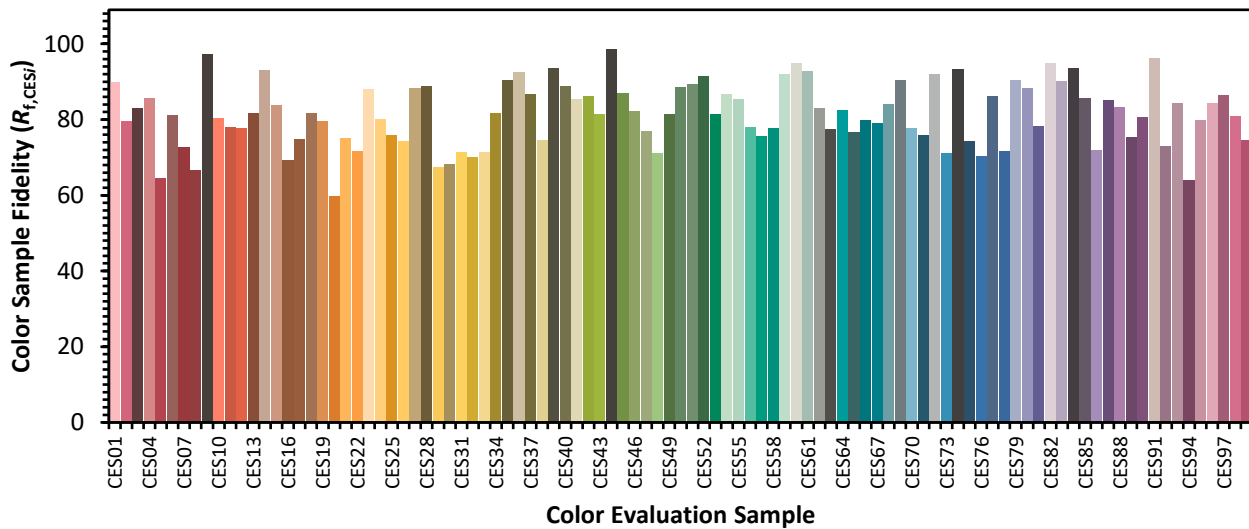


**Color Vector Graphics**

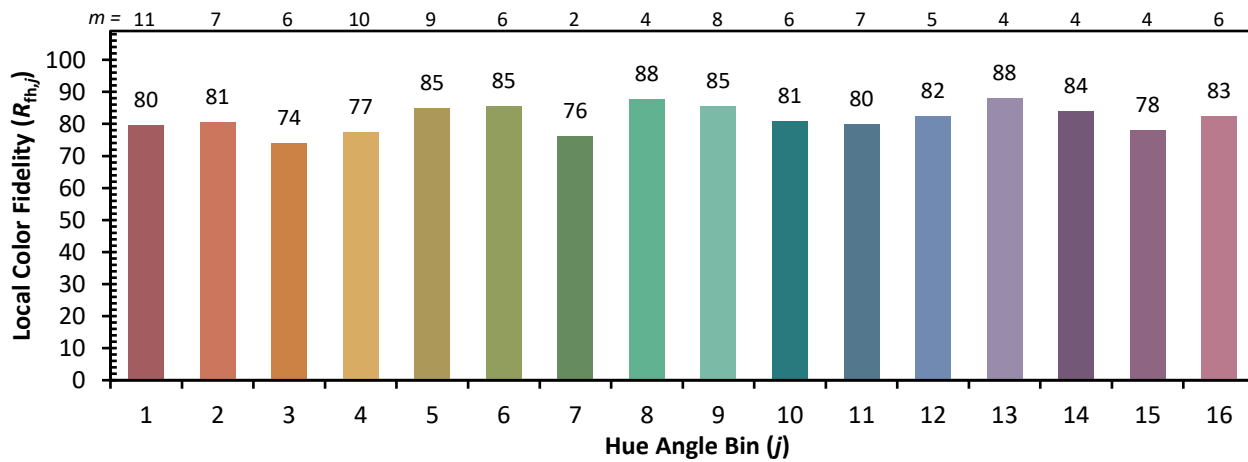
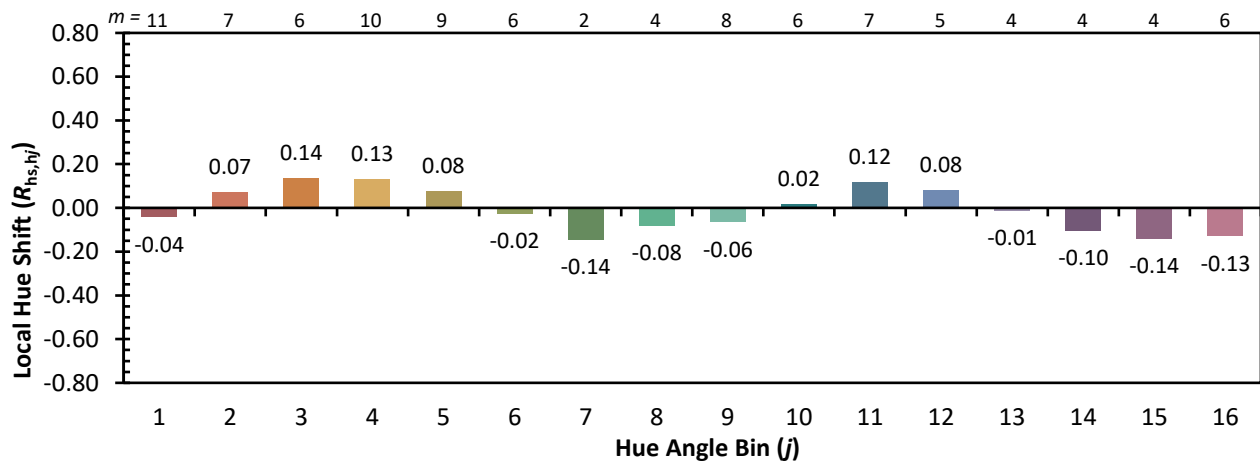
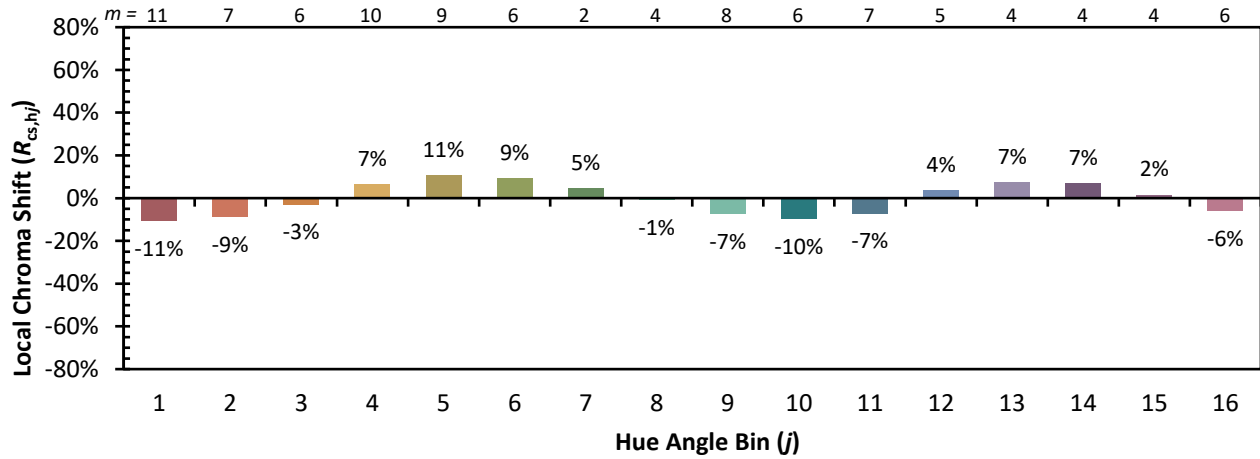


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

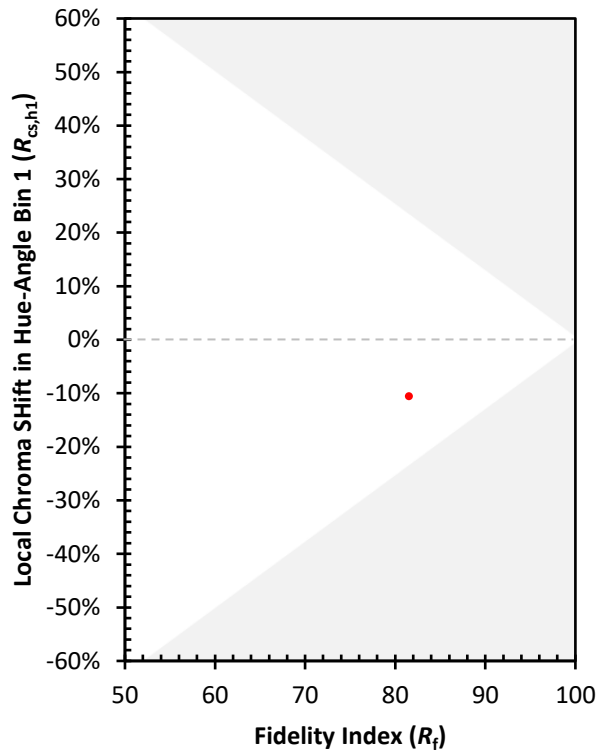
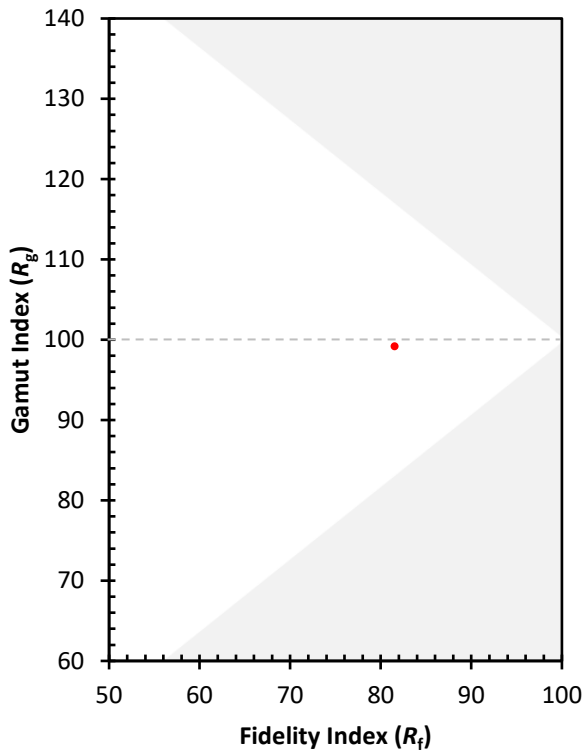
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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