

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: P320815

Luminaire Tested: **GLEON-SA1D-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320815
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-SA1D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5674 lumens
Efficiency: N/A
Efficacy: 84.7 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

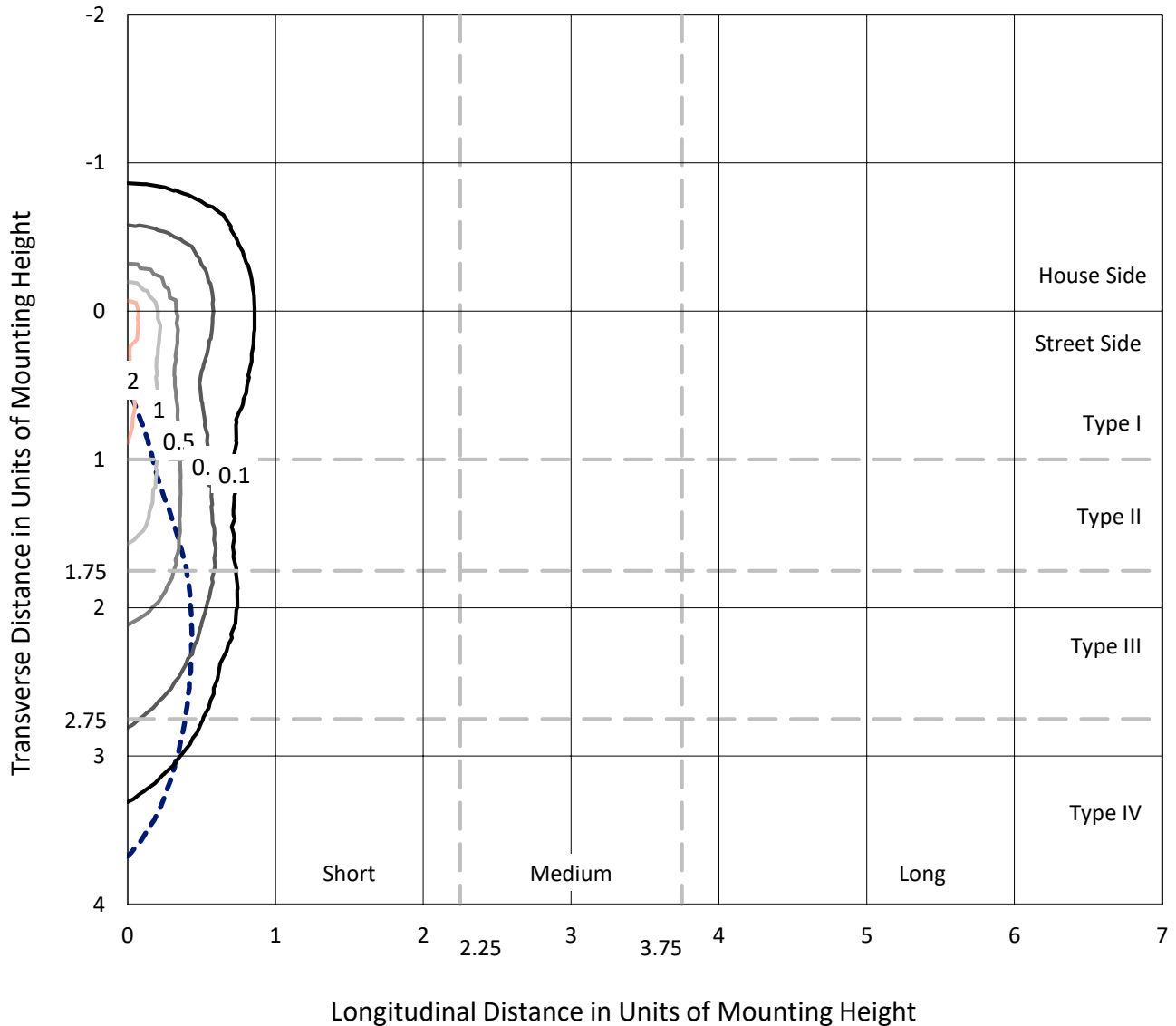
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

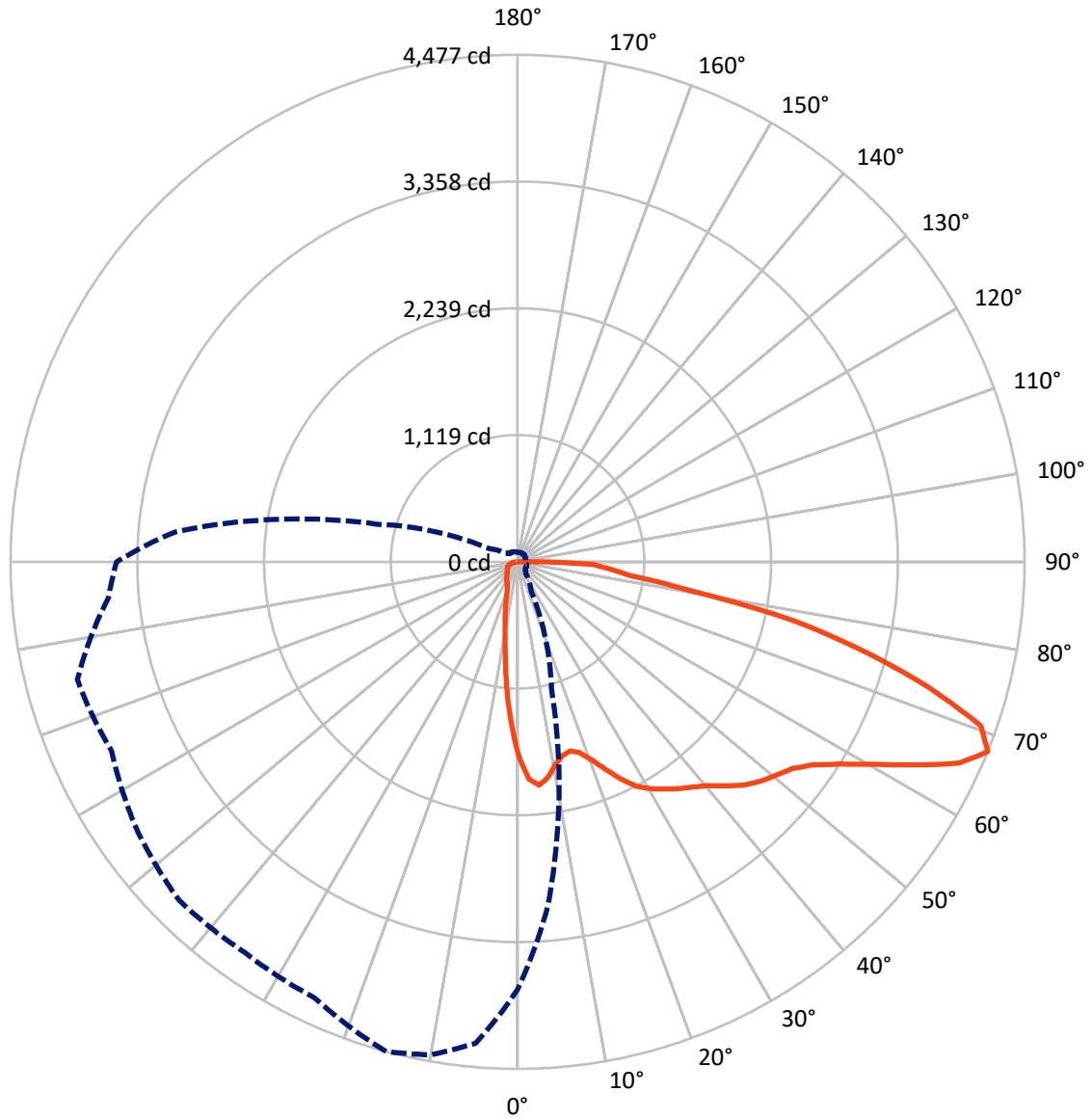
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P320815
CATALOG NUMBER: GLEON-SA1D-830-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

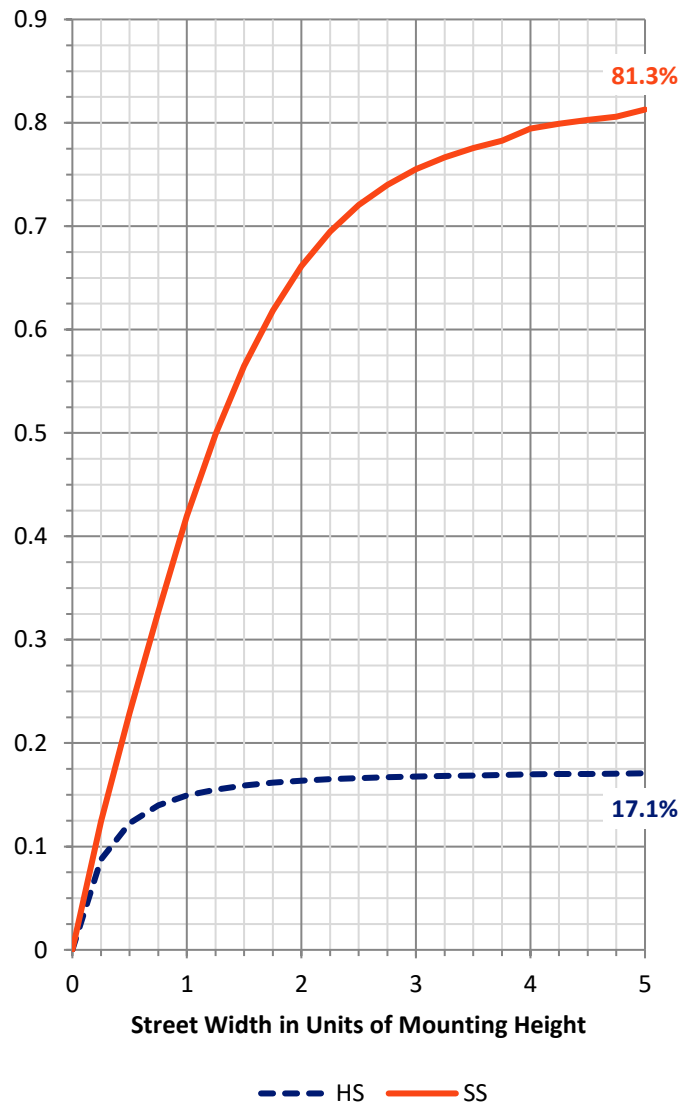
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.9	0.0	980.9
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	4693.1	0.0	4693.1
	% Fixture	82.7	0.0	82.7
Total	Lumens	5674.0	0.0	5674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.4
10°-20°	277.1	4.9
20°-30°	394.2	6.9
30°-40°	568.0	10.0
40°-50°	800.5	14.1
50°-60°	1112.8	19.6
60°-70°	1345.7	23.7
70°-80°	827.2	14.6
80°-90°	215.2	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°	5674.0	100.0
0°-180°	5674.0	100.0

Coefficient of Utilization

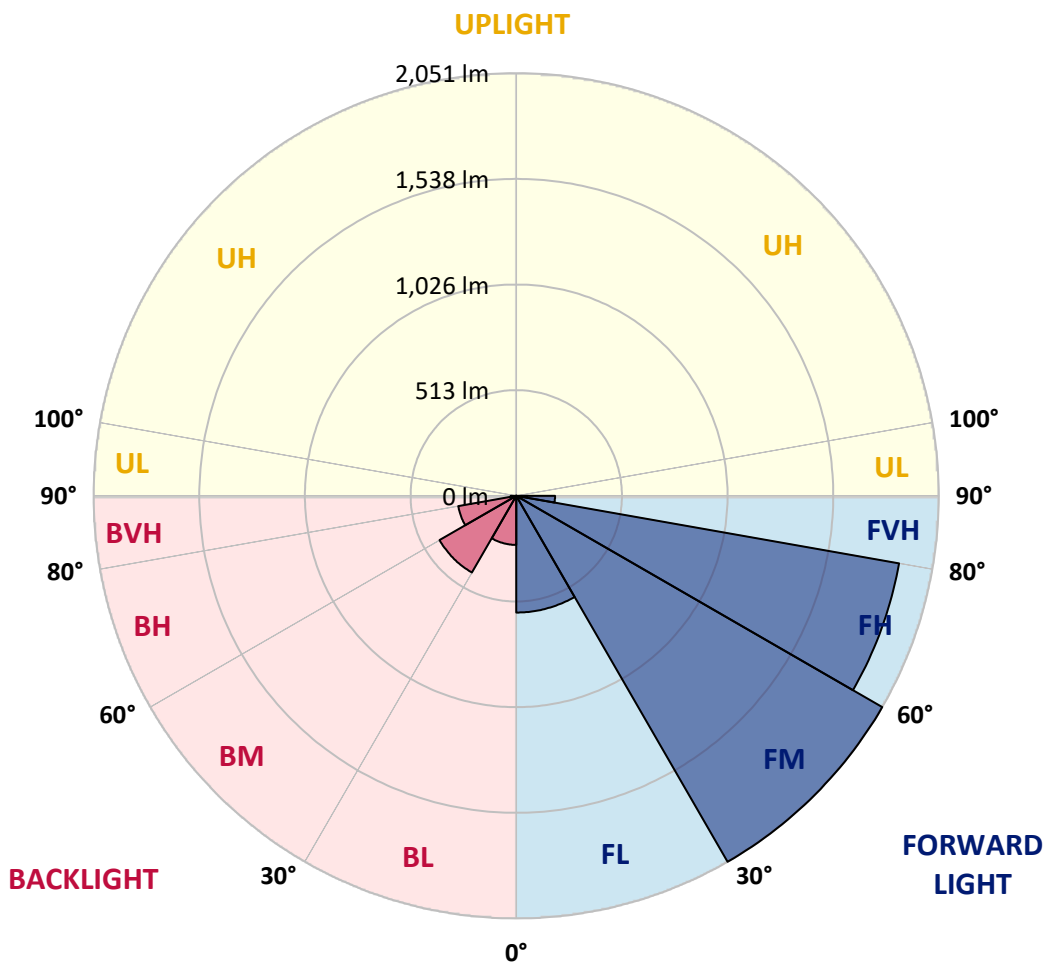


REPORT NUMBER: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.6	10.0			
FM (30°-60°)	2051.3	36.2			
FH (60°-80°)	1887.0	33.3			G2/5000
FVH (80°-90°)	188.3	3.3			G2/225
BL (0°-30°)	238.2	4.2	B1/500		
BM (30°-60°)	429.9	7.6	B1/1000		
BH (60°-80°)	285.9	5.0	B1/500		G1/500
BVH (80°-90°)	27.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P320815

CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6
2.5°	1851.8	1835.5	1810.7	1786.0	1767.6	1749.0	1727.9	1706.8	1682.8	1658.5	1644.2
5°	1821.2	1775.8	1716.8	1657.8	1618.8	1579.8	1535.6	1491.3	1447.6	1403.8	1380.2
7.5°	1683.3	1615.2	1538.5	1461.8	1405.1	1348.2	1286.9	1225.5	1171.0	1116.3	1082.5
10°	1547.6	1465.9	1377.9	1289.7	1217.1	1144.5	1083.0	1021.3	980.2	939.2	908.1
12.5°	1450.3	1359.8	1262.9	1165.8	1093.2	1020.6	981.6	942.6	908.5	874.5	838.7
15°	1411.7	1309.4	1210.3	1110.9	1044.9	978.9	935.5	892.0	846.4	800.6	756.6
17.5°	1445.7	1326.0	1218.2	1110.4	1024.0	937.6	877.0	816.2	756.1	696.0	644.9
20°	1551.9	1399.0	1258.1	1117.0	1002.0	887.0	805.8	724.3	647.2	570.1	512.2
22.5°	1700.9	1498.6	1314.6	1130.6	982.0	833.2	731.4	629.3	538.1	446.9	390.2
25°	1882.0	1630.6	1396.1	1161.3	973.9	786.3	661.1	535.8	439.6	343.2	302.8
27.5°	2072.8	1788.1	1497.2	1206.2	975.2	744.3	601.8	459.2	372.5	285.8	258.2
30°	2231.8	1968.0	1615.2	1262.2	980.5	698.7	546.0	393.4	321.9	250.4	232.5
32.5°	2377.2	2093.4	1704.1	1314.6	986.4	657.9	502.9	347.8	289.5	230.9	216.2
35°	2527.4	2204.8	1766.3	1327.5	976.2	624.5	473.4	322.4	268.6	214.6	202.1
37.5°	2692.8	2325.2	1826.2	1326.9	958.9	591.0	450.5	309.9	255.0	199.9	190.8
40°	2877.2	2458.4	1891.1	1323.7	943.3	562.6	433.5	304.2	247.5	190.6	182.8
42.5°	3057.5	2585.4	1951.4	1317.3	930.6	543.5	416.7	289.9	240.7	191.2	180.3
45°	3193.0	2696.4	2003.8	1311.0	921.0	531.1	403.6	276.1	234.3	192.6	178.8
47.5°	3295.7	2807.8	2061.9	1315.8	920.1	524.5	394.3	264.1	222.3	180.3	174.7
50°	3426.4	2941.6	2146.5	1351.4	932.6	513.8	383.4	252.7	210.7	168.8	176.5
52.5°	3589.0	3132.6	2277.6	1422.4	958.7	495.0	366.1	237.3	196.7	155.8	167.9
55°	3827.9	3377.4	2445.3	1512.9	990.2	467.3	340.1	212.6	178.1	143.4	154.0
57.5°	4042.3	3624.7	2606.1	1587.3	1010.0	432.4	307.2	181.9	157.2	132.5	138.6
60°	4137.8	3752.2	2681.4	1610.4	998.2	385.9	270.2	154.3	138.8	123.4	122.3
62.5°	4100.6	3671.2	2607.2	1543.3	940.5	337.8	237.5	137.2	125.7	113.9	111.4
65°	3991.7	3416.6	2399.4	1382.2	843.2	304.2	216.9	129.5	116.6	103.7	100.9
67.5°	3777.1	3054.4	2105.0	1155.6	719.6	283.6	205.1	126.6	110.9	95.1	91.9
70°	3391.9	2618.3	1765.8	913.1	592.1	270.9	197.4	123.9	104.8	85.5	82.6
72.5°	2786.0	2099.3	1410.1	720.7	495.0	269.3	196.5	123.6	99.8	76.0	73.3
75°	1994.7	1594.6	1076.4	558.1	405.4	252.7	186.5	120.2	93.0	65.6	63.1
77.5°	1342.3	1103.6	748.2	392.5	300.8	209.2	156.8	104.4	79.6	54.9	52.4
80°	862.0	763.8	501.3	238.9	195.1	151.3	112.1	72.8	58.1	43.1	41.1
82.5°	632.5	568.5	348.4	128.4	108.4	88.2	68.5	48.8	39.7	30.6	29.7
85°	402.0	443.3	256.6	69.9	57.2	44.5	36.8	29.0	22.9	16.8	16.8
87.5°	78.0	108.0	71.0	33.8	24.7	15.7	13.4	10.9	6.1	1.1	1.4
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: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6
2.5°	1629.7	1614.1	1598.4	1580.7	1562.8	1546.2	1529.4	1511.1	1514.5	1500.4	1486.3
5°	1356.6	1331.6	1306.4	1284.7	1262.9	1244.1	1225.0	1208.0	1222.7	1212.8	1202.8
7.5°	1048.5	1017.7	986.6	960.5	934.4	914.2	893.8	879.7	894.3	892.4	890.6
10°	877.0	847.1	816.9	788.1	759.3	734.8	710.1	689.2	685.6	675.1	664.5
12.5°	802.6	761.5	720.3	690.1	659.9	630.7	601.4	576.9	565.8	548.5	531.1
15°	712.5	664.0	615.5	581.2	546.7	518.4	489.8	468.7	461.6	448.3	434.9
17.5°	593.9	540.8	487.7	453.0	418.1	395.4	372.5	358.4	358.4	354.6	350.7
20°	454.4	407.0	359.6	333.0	306.5	294.5	282.2	276.3	278.1	278.3	278.3
22.5°	333.2	304.2	275.2	264.5	253.6	249.3	245.0	242.5	243.4	243.6	243.9
25°	262.5	251.4	240.0	234.6	228.9	226.2	223.5	222.5	224.6	224.8	224.8
27.5°	230.5	223.7	216.6	213.2	209.6	208.5	207.3	205.8	207.8	207.8	207.6
30°	214.4	207.1	199.9	195.5	191.2	191.7	191.9	191.5	192.8	193.7	194.4
32.5°	201.2	194.2	187.2	182.8	178.3	177.6	176.9	176.5	179.4	181.0	182.6
35°	189.4	181.7	174.0	169.9	165.8	164.2	162.7	161.5	164.2	166.3	168.3
37.5°	181.5	173.5	165.4	161.5	157.4	155.4	153.4	152.0	153.1	154.0	154.9
40°	175.1	167.0	158.6	154.0	149.5	147.5	145.4	144.3	145.0	145.2	145.4
42.5°	169.2	161.3	153.4	148.4	143.1	140.6	138.2	136.8	137.2	137.7	137.9
45°	164.9	157.0	148.8	142.9	136.8	134.1	131.3	129.8	130.0	130.0	130.0
47.5°	169.0	157.4	145.6	138.8	131.8	128.6	125.4	123.9	123.4	123.0	122.5
50°	184.0	164.2	144.3	135.7	126.8	123.4	119.8	118.0	116.8	116.4	115.9
52.5°	179.7	162.7	145.4	134.3	123.0	118.9	114.8	111.8	110.7	110.0	109.3
55°	164.5	153.8	142.9	129.5	116.1	112.5	108.7	106.6	104.6	104.1	103.7
57.5°	144.5	140.2	135.9	122.3	108.7	105.3	101.6	100.3	98.5	98.5	98.2
60°	120.9	127.3	133.6	118.0	102.1	98.2	94.4	93.2	92.6	92.3	92.1
62.5°	108.7	119.1	129.3	112.7	96.0	91.9	87.8	86.4	86.2	86.4	86.4
65°	98.2	101.4	104.6	96.9	89.2	85.1	80.8	79.4	79.9	80.5	81.2
67.5°	88.7	88.0	87.3	84.6	81.7	78.3	74.6	73.3	73.5	74.4	75.3
70°	79.6	78.7	77.6	75.5	73.5	70.6	67.6	66.7	66.5	67.6	68.5
72.5°	70.6	69.4	68.1	66.5	64.7	62.2	59.7	59.0	59.2	59.9	60.6
75°	60.6	59.7	58.5	57.2	55.6	53.3	51.0	50.6	51.0	51.7	52.4
77.5°	49.7	49.5	49.0	47.9	46.7	44.2	41.5	41.3	42.0	42.6	43.1
80°	38.8	39.0	39.2	38.3	37.4	34.7	31.8	31.5	32.2	32.9	33.6
82.5°	28.6	29.3	29.7	28.6	27.4	24.3	21.1	20.6	22.9	23.6	24.3
85°	16.6	17.5	18.4	17.5	16.6	13.4	10.2	10.0	12.0	13.2	14.3
87.5°	1.4	1.8	2.3	2.0	1.8	0.9	0.0	0.0	0.2	1.1	2.0
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: P320815
 CATALOG NUMBER: GLEON-SA1D-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: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6
2.5°	1477.5	1468.6	1465.9	1463.2	1453.2	1443.0	1453.5	1463.7	1468.0	1472.3	1461.2
5°	1201.4	1199.8	1199.8	1199.6	1190.5	1181.2	1188.3	1195.1	1179.9	1164.7	1163.1
7.5°	900.4	910.1	918.1	925.8	922.8	919.9	926.5	933.0	913.8	894.3	884.7
10°	666.7	668.8	677.4	686.0	688.0	689.9	698.0	706.0	691.0	676.0	669.4
12.5°	520.2	509.3	510.4	511.3	515.4	519.3	527.9	536.3	530.2	523.8	524.5
15°	421.3	407.4	401.8	395.9	400.4	404.9	411.1	417.0	417.2	417.2	423.1
17.5°	343.9	336.9	331.2	325.3	331.4	337.3	338.0	338.7	338.9	339.1	338.7
20°	281.8	285.2	283.3	281.5	283.8	285.8	287.7	289.2	287.2	284.9	279.3
22.5°	247.0	250.0	252.3	254.3	258.2	261.8	260.0	257.9	253.8	249.5	245.2
25°	226.9	228.9	231.2	233.4	236.6	239.6	236.4	233.2	230.3	227.3	224.4
27.5°	209.8	211.9	213.9	215.7	218.7	221.4	218.5	215.5	213.0	210.5	208.3
30°	196.0	197.4	199.0	200.5	203.3	205.8	203.3	200.5	198.7	196.7	195.1
32.5°	184.2	185.6	186.2	186.9	189.4	191.9	190.1	188.3	186.7	185.1	184.0
35°	171.3	174.0	174.5	174.9	177.4	179.9	178.8	177.4	175.6	173.8	171.7
37.5°	158.1	161.3	163.1	164.7	167.2	169.7	168.6	167.4	164.9	162.4	158.8
40°	147.0	148.4	151.8	154.9	159.0	162.9	160.6	158.1	154.3	150.4	148.6
42.5°	137.7	137.5	140.6	143.8	150.0	155.8	151.8	147.7	144.1	140.4	140.0
45°	129.5	128.9	130.4	132.0	138.6	145.0	140.9	136.6	134.5	132.5	132.5
47.5°	122.3	121.8	123.0	123.9	127.9	131.8	129.8	127.7	126.6	125.4	125.7
50°	115.7	115.2	116.4	117.3	118.9	120.2	120.7	120.9	120.2	119.6	120.0
52.5°	109.6	109.6	110.0	110.3	112.3	114.3	114.3	114.1	114.1	114.1	114.6
55°	104.4	104.8	104.8	104.8	108.0	110.9	110.0	109.1	109.3	109.3	109.8
57.5°	99.1	99.8	100.3	100.7	103.9	107.1	106.2	105.3	105.3	105.3	105.5
60°	93.2	94.1	95.1	96.0	99.1	102.3	101.4	100.3	100.5	100.7	100.9
62.5°	87.6	88.5	89.4	90.3	93.5	96.6	95.7	94.6	95.3	95.7	95.7
65°	82.1	82.8	83.7	84.6	87.6	90.5	89.6	88.7	89.6	90.3	90.7
67.5°	76.0	76.4	77.4	78.3	81.2	84.2	83.3	82.1	83.3	84.2	85.1
70°	69.0	69.4	70.6	71.5	74.4	77.4	76.2	75.1	76.2	77.4	78.3
72.5°	61.3	61.7	62.8	63.7	67.1	70.6	69.2	67.8	69.2	70.6	71.0
75°	52.9	53.3	54.7	55.8	59.2	62.6	61.5	60.1	61.3	62.4	62.6
77.5°	43.8	44.5	46.3	48.1	50.8	53.5	52.9	52.2	52.9	53.5	53.5
80°	34.3	34.9	37.2	39.2	40.8	42.4	42.6	42.9	43.1	43.3	43.1
82.5°	25.4	26.3	28.4	30.4	30.4	30.4	32.2	33.8	33.8	33.6	33.3
85°	15.7	16.8	18.6	20.4	19.3	18.1	21.1	23.8	23.8	23.6	23.1
87.5°	3.2	4.3	6.1	7.7	6.6	5.4	8.4	11.3	11.6	11.6	11.1
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: P320815
 CATALOG NUMBER: GLEON-SA1D-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: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6
2.5°	1449.8	1467.5	1485.0	1489.5	1496.3	1499.3	1502.0	1524.2	1546.2	1572.1	1598.0
5°	1161.3	1174.4	1187.6	1189.6	1196.7	1200.3	1203.9	1230.9	1257.7	1293.7	1329.8
7.5°	875.2	878.4	881.6	881.1	887.0	894.9	902.6	931.5	960.0	998.8	1037.4
10°	662.9	670.1	677.2	683.7	696.7	711.6	726.4	755.9	785.4	823.7	861.8
12.5°	525.2	533.6	541.7	549.0	564.0	583.9	603.7	639.0	674.4	720.3	765.9
15°	428.8	428.1	427.4	432.4	445.5	467.3	488.9	526.3	563.7	614.1	664.2
17.5°	338.2	334.8	331.4	335.3	347.5	365.5	383.2	414.9	446.4	495.2	544.0
20°	273.6	271.3	269.0	272.7	280.4	287.9	295.4	318.3	341.0	380.7	420.1
22.5°	240.7	240.5	240.0	242.1	245.7	249.5	253.2	264.3	275.2	300.8	326.2
25°	221.4	221.2	221.0	221.9	224.8	227.8	230.7	238.0	245.2	257.5	269.7
27.5°	206.0	205.5	205.1	205.3	206.0	210.5	214.8	218.2	221.4	229.8	238.0
30°	193.5	193.3	193.1	193.1	192.4	194.0	195.5	200.8	205.8	214.4	223.0
32.5°	182.8	181.7	180.6	178.1	176.5	178.8	181.0	186.5	191.9	199.9	207.8
35°	169.5	166.5	163.3	162.0	162.2	164.5	166.7	172.2	177.4	186.0	194.4
37.5°	154.9	154.0	152.9	152.7	153.4	155.6	157.9	162.7	167.2	175.8	184.2
40°	146.8	146.3	145.9	145.4	145.9	148.1	150.4	154.9	159.3	167.6	175.8
42.5°	139.5	139.3	139.1	139.1	139.3	141.8	144.3	148.8	153.1	160.6	168.1
45°	132.5	132.7	132.7	133.2	133.8	136.3	138.6	143.6	148.6	155.8	163.1
47.5°	125.9	126.6	127.0	128.2	128.9	131.6	134.1	139.5	145.0	154.0	162.9
50°	120.2	120.9	121.4	122.3	124.1	127.3	130.4	137.0	143.4	158.6	173.5
52.5°	115.0	115.7	116.4	117.3	119.6	123.2	126.8	135.0	142.9	160.6	178.3
55°	110.3	110.9	111.4	112.7	115.0	118.2	121.1	131.1	141.1	154.0	167.0
57.5°	105.7	106.4	106.8	107.8	108.9	112.3	115.5	126.1	136.8	145.9	154.7
60°	100.9	101.4	101.6	101.6	102.5	106.4	110.3	123.9	137.2	135.7	133.8
62.5°	95.7	96.2	96.4	95.7	96.9	100.9	105.0	122.7	140.4	129.5	118.6
65°	91.0	90.7	90.5	89.8	91.2	95.3	99.1	108.0	116.8	112.5	108.2
67.5°	85.8	85.1	84.4	83.5	84.8	88.5	91.9	94.8	97.8	98.2	98.7
70°	79.2	78.3	77.4	77.1	77.8	80.8	83.7	85.8	87.6	88.5	89.2
72.5°	71.5	70.8	70.1	69.6	69.9	72.4	74.6	76.4	78.3	78.9	79.4
75°	62.8	62.8	62.6	61.3	61.3	63.3	65.1	66.7	68.3	69.2	70.1
77.5°	53.5	53.8	53.8	51.9	51.7	53.8	55.6	56.9	58.1	59.0	59.7
80°	42.9	42.4	42.0	40.8	40.4	42.9	45.1	46.3	47.2	47.4	47.4
82.5°	32.9	32.0	30.9	28.4	28.6	31.3	33.8	34.7	35.6	35.6	35.6
85°	22.5	20.6	18.6	16.6	16.8	19.7	22.5	23.4	24.3	24.7	25.0
87.5°	10.7	8.8	6.8	5.2	5.2	7.7	10.0	10.4	10.9	11.8	12.7
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: P320815
 CATALOG NUMBER: GLEON-SA1D-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: P320815
 CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6
2.5°	1617.7	1637.2	1657.4	1677.6	1700.7	1723.9	1750.9	1777.6	1800.5	1823.4	1842.5
5°	1360.9	1392.0	1428.5	1465.0	1511.5	1558.0	1615.0	1671.7	1722.3	1772.9	1831.6
7.5°	1078.0	1118.4	1166.0	1213.7	1273.8	1333.9	1407.6	1481.4	1552.8	1624.0	1714.3
10°	904.2	946.7	993.6	1040.3	1101.6	1162.6	1240.7	1318.5	1398.8	1478.9	1580.9
12.5°	813.0	860.0	901.3	942.6	992.3	1041.7	1117.3	1192.8	1287.2	1381.3	1479.5
15°	715.7	767.0	816.4	865.9	920.1	974.1	1047.6	1121.1	1224.3	1327.5	1440.5
17.5°	598.0	652.0	712.3	772.4	843.2	913.8	1007.9	1102.1	1224.3	1346.4	1479.5
20°	475.3	530.4	602.5	674.7	762.7	850.5	972.5	1094.6	1259.3	1423.7	1593.6
22.5°	375.0	423.5	502.3	580.7	682.4	784.0	940.5	1096.8	1312.1	1527.2	1756.5
25°	304.0	338.2	415.6	492.7	610.0	727.3	921.0	1114.5	1389.0	1663.3	1947.8
27.5°	260.4	282.9	355.0	426.9	555.1	683.1	913.1	1142.9	1486.6	1830.3	2155.8
30°	238.6	254.3	315.3	376.1	506.3	636.6	903.6	1170.6	1580.5	1990.2	2318.4
32.5°	220.5	233.0	285.2	337.1	464.1	591.2	885.2	1179.0	1646.0	2113.1	2456.1
35°	205.1	215.5	260.9	306.3	431.0	555.8	854.3	1152.9	1687.1	2221.3	2599.5
37.5°	192.6	200.8	242.7	284.7	402.4	520.2	819.2	1118.2	1723.6	2329.1	2760.8
40°	182.8	189.9	229.1	268.4	375.2	482.1	789.0	1095.7	1774.0	2452.3	2931.2
42.5°	177.4	186.5	217.3	248.0	349.4	450.8	764.7	1078.7	1820.7	2562.5	3080.2
45°	176.0	189.0	211.2	233.4	330.1	426.7	743.2	1059.4	1850.9	2642.4	3192.5
47.5°	173.8	184.4	206.4	228.4	320.5	412.4	731.6	1050.6	1881.1	2711.4	3285.7
50°	175.1	176.5	202.6	228.4	319.2	409.9	744.8	1079.6	1946.4	2813.0	3392.4
52.5°	172.6	166.7	195.3	223.9	319.0	414.0	782.6	1151.3	2067.8	2984.0	3507.8
55°	159.5	151.8	181.7	211.7	314.2	416.5	827.8	1238.8	2230.7	3222.2	3715.4
57.5°	147.9	140.9	166.3	191.5	299.7	407.9	874.3	1340.5	2402.8	3465.0	3949.3
60°	132.5	130.9	149.0	167.2	277.2	387.0	912.6	1438.0	2518.5	3598.8	4039.4
62.5°	119.8	120.7	134.1	147.5	249.1	350.5	925.3	1500.0	2515.4	3530.7	3948.6
65°	110.0	111.6	124.8	137.9	225.0	312.2	883.6	1454.8	2388.1	3321.1	3769.2
67.5°	100.5	102.3	118.0	133.4	203.7	273.8	779.2	1284.4	2159.2	3033.7	3541.0
70°	91.4	93.7	110.7	127.7	188.3	248.6	644.7	1040.8	1872.7	2704.3	3276.7
72.5°	81.7	83.9	102.1	120.2	178.5	236.6	525.6	814.4	1519.7	2224.8	2802.8
75°	71.7	73.3	93.0	112.5	165.1	217.8	412.4	606.8	1163.1	1719.3	2117.0
77.5°	61.7	63.7	80.3	96.6	140.2	183.5	310.8	438.1	853.4	1268.6	1472.3
80°	49.2	51.0	62.8	74.4	108.2	141.8	213.7	285.6	587.3	889.0	1003.8
82.5°	37.7	39.7	47.6	55.4	77.1	98.9	129.5	160.2	390.2	620.0	629.5
85°	25.9	26.5	32.2	37.7	47.6	57.6	74.2	90.7	258.2	425.6	354.6
87.5°	12.9	12.9	16.8	20.6	25.6	30.6	39.2	47.6	82.6	117.5	67.6
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: P320815
 CATALOG NUMBER: GLEON-SA1D-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: P320815

CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6
2.5°	1866.8	1883.3	1900.1	1912.8	1925.8	1944.4	1963.0	1966.4	1970.0	1962.7	1955.5
5°	1890.8	1941.0	1991.3	2037.8	2084.3	2112.2	2140.1	2145.8	2151.5	2134.0	2116.3
7.5°	1801.7	1889.0	1976.3	2056.4	2136.5	2185.1	2233.8	2244.7	2255.8	2227.2	2198.7
10°	1682.6	1789.9	1897.2	2002.7	2108.1	2178.7	2249.3	2263.3	2277.4	2241.8	2206.1
12.5°	1590.5	1705.0	1819.6	1930.7	2042.1	2115.2	2188.2	2205.7	2223.2	2197.3	2171.2
15°	1562.1	1669.9	1777.6	1874.5	1971.6	2031.2	2091.1	2098.2	2105.4	2101.3	2097.3
17.5°	1613.6	1710.9	1808.5	1861.1	1914.0	1937.8	1961.8	1969.5	1977.5	1987.7	1998.1
20°	1738.4	1806.9	1875.6	1873.4	1870.9	1859.3	1847.5	1845.5	1843.4	1872.7	1902.2
22.5°	1924.6	1951.8	1979.3	1915.6	1851.8	1813.0	1774.0	1766.3	1758.3	1789.4	1820.7
25°	2126.8	2121.8	2116.5	1995.2	1873.6	1799.6	1725.7	1717.1	1708.4	1735.0	1761.7
27.5°	2326.8	2294.2	2261.5	2096.6	1931.7	1824.4	1717.1	1708.4	1699.8	1723.4	1747.0
30°	2473.6	2421.2	2368.8	2182.1	1995.4	1867.9	1740.4	1726.4	1712.1	1741.1	1770.1
32.5°	2588.2	2517.8	2447.5	2251.5	2055.5	1917.6	1779.7	1757.7	1735.7	1774.4	1813.2
35°	2702.5	2603.6	2504.5	2313.5	2122.2	1976.3	1830.3	1803.3	1776.3	1829.6	1882.9
37.5°	2846.3	2704.3	2562.1	2383.1	2204.1	2064.4	1924.4	1896.7	1869.0	1936.9	2004.9
40°	3002.4	2813.0	2623.6	2459.3	2295.1	2186.2	2077.1	2050.8	2024.2	2106.8	2189.4
42.5°	3132.2	2914.2	2696.2	2551.2	2406.0	2329.3	2252.4	2252.2	2251.7	2335.5	2419.2
45°	3237.7	2998.5	2759.2	2640.8	2522.2	2482.2	2442.3	2474.3	2506.3	2581.8	2657.6
47.5°	3316.4	3069.3	2822.1	2743.3	2664.6	2670.5	2676.4	2741.5	2806.6	2855.2	2904.0
50°	3367.6	3133.5	2899.2	2874.9	2850.6	2903.5	2956.6	3031.2	3106.1	3139.2	3172.3
52.5°	3442.3	3220.6	2998.8	3026.0	3053.2	3161.2	3269.2	3344.7	3420.3	3432.5	3445.0
55°	3614.9	3380.8	3146.5	3198.6	3251.0	3409.4	3568.0	3626.9	3685.9	3690.5	3695.0
57.5°	3860.1	3605.2	3350.2	3406.4	3462.7	3645.5	3828.6	3892.1	3955.9	3947.0	3937.9
60°	4043.7	3818.2	3592.5	3649.2	3705.9	3884.2	4062.5	4135.5	4208.8	4189.3	4169.8
62.5°	4055.0	3934.5	3813.9	3865.1	3916.6	4091.3	4266.0	4341.1	4416.2	4382.1	4348.1
65°	3874.7	3928.6	3982.6	3999.7	4016.7	4179.5	4342.7	4400.0	4457.7	4440.4	4423.2
67.5°	3626.3	3825.2	4024.4	3990.1	3955.9	4032.3	4108.8	4168.0	4227.2	4217.4	4207.5
70°	3378.3	3643.9	3909.6	3741.3	3572.7	3541.2	3509.6	3573.4	3637.4	3597.9	3558.2
72.5°	2956.1	3239.2	3522.6	3212.5	2902.4	2794.6	2686.9	2767.8	2848.8	2786.0	2722.9
75°	2320.5	2633.3	2946.4	2576.4	2206.4	2062.6	1918.7	1988.4	2058.0	2014.9	1971.6
77.5°	1727.5	2035.8	2344.1	1968.0	1591.6	1484.8	1377.7	1398.3	1419.2	1411.9	1404.4
80°	1171.7	1386.5	1601.6	1351.1	1100.7	1108.9	1117.3	1107.5	1097.5	1112.0	1126.6
82.5°	747.7	913.5	1079.6	946.7	813.7	889.9	966.2	928.7	891.1	904.9	919.0
85°	426.7	588.9	751.3	700.3	649.0	693.5	738.2	680.1	622.0	647.4	673.1
87.5°	112.5	325.8	539.2	489.5	439.9	382.2	324.6	247.7	170.8	249.5	328.3
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: P320815
 CATALOG NUMBER: GLEON-SA1D-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: P320815

CATALOG NUMBER: GLEON-SA1D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6	1728.6
2.5°	1951.6	1947.8	1933.9	1919.9	1899.0	1881.7	1851.8
5°	2091.8	2067.3	2025.1	1982.7	1935.5	1881.3	1821.2
7.5°	2141.5	2084.1	2003.1	1921.9	1848.9	1763.1	1683.3
10°	2120.4	2034.4	1929.2	1823.7	1735.0	1636.3	1547.6
12.5°	2080.0	1988.6	1872.7	1756.5	1655.6	1549.6	1450.3
15°	2024.4	1951.4	1842.7	1734.1	1632.4	1529.4	1411.7
17.5°	1963.6	1928.9	1850.4	1771.7	1683.7	1583.9	1445.7
20°	1914.6	1927.3	1896.0	1864.7	1794.2	1707.1	1551.9
22.5°	1881.5	1942.5	1966.6	1990.9	1948.4	1880.4	1700.9
25°	1862.9	1964.1	2044.6	2125.4	2106.6	2054.2	1882.0
27.5°	1871.1	1995.2	2120.2	2245.4	2262.9	2248.3	2072.8
30°	1895.6	2021.3	2173.5	2325.9	2395.6	2415.1	2231.8
32.5°	1936.4	2059.6	2225.4	2391.5	2496.7	2558.9	2377.2
35°	1998.1	2113.4	2286.2	2459.1	2595.2	2708.6	2527.4
37.5°	2104.1	2203.2	2362.7	2522.4	2698.9	2869.2	2692.8
40°	2259.2	2329.3	2464.1	2599.1	2821.1	3051.2	2877.2
42.5°	2455.0	2491.1	2597.9	2704.8	2948.9	3216.3	3057.5
45°	2667.1	2676.6	2743.8	2811.2	3050.0	3328.8	3193.0
47.5°	2871.3	2838.6	2865.4	2892.2	3127.6	3409.2	3295.7
50°	3081.4	2990.4	2976.3	2962.3	3205.2	3503.8	3426.4
52.5°	3295.0	3145.1	3089.5	3033.7	3297.8	3629.2	3589.0
55°	3504.2	3313.4	3238.6	3163.7	3439.3	3782.3	3827.9
57.5°	3721.8	3505.6	3436.1	3366.7	3647.4	3976.3	4042.3
60°	3955.9	3741.7	3686.1	3630.3	3906.0	4185.9	4137.8
62.5°	4178.0	4007.8	3978.6	3949.1	4167.5	4347.0	4100.6
65°	4326.3	4229.2	4256.5	4283.9	4365.3	4387.1	3991.7
67.5°	4227.2	4246.9	4361.9	4477.2	4421.1	4267.8	3777.1
70°	3676.4	3794.8	4067.3	4339.9	4215.6	3948.2	3391.9
72.5°	2855.9	2989.0	3393.5	3798.2	3683.6	3356.1	2786.0
75°	2121.8	2272.2	2718.6	3165.1	3006.0	2510.4	1994.7
77.5°	1505.2	1605.9	2046.7	2487.7	2228.4	1671.0	1342.3
80°	1095.7	1064.9	1310.5	1556.2	1513.1	1105.2	862.0
82.5°	843.7	768.4	884.0	999.7	993.4	767.0	632.5
85°	642.9	612.7	715.0	817.4	729.8	519.5	402.0
87.5°	374.8	421.5	542.0	662.6	497.3	157.7	78.0
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: P320815
 CATALOG NUMBER: GLEON-SA1D-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.

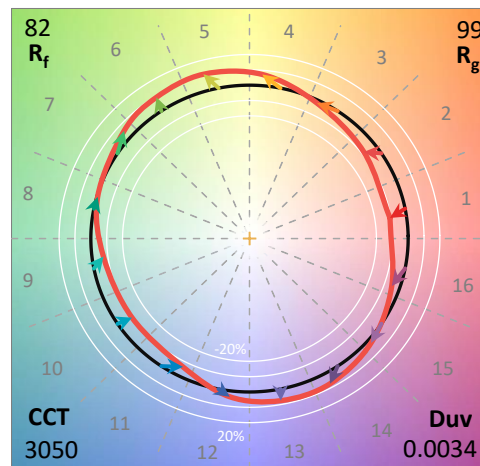
Test Information

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

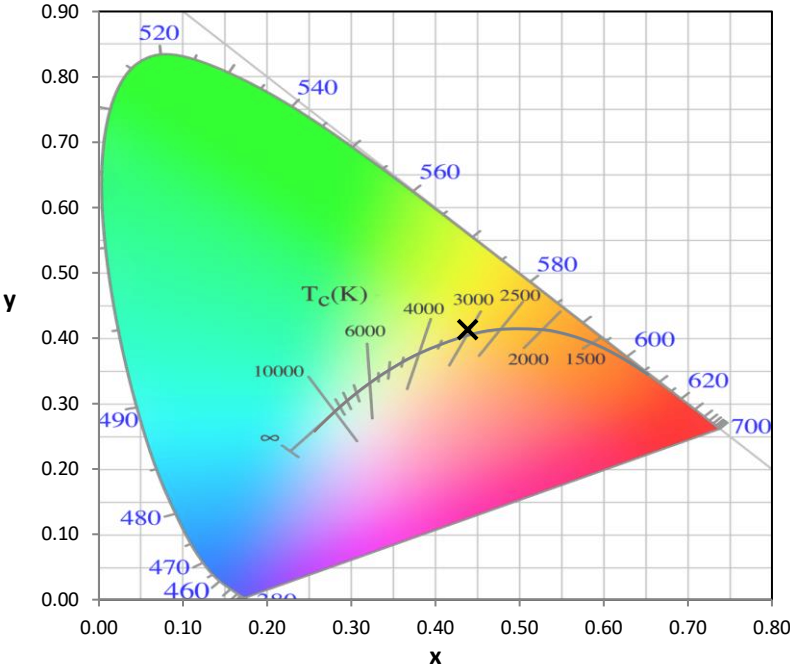
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

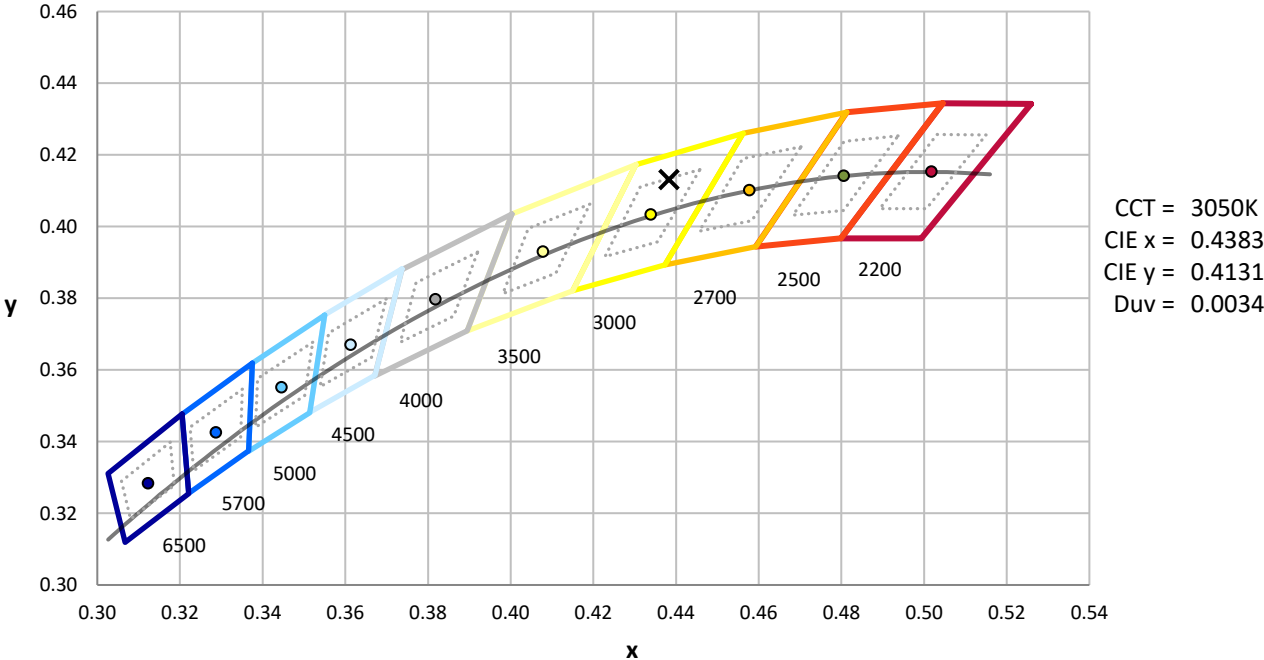
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



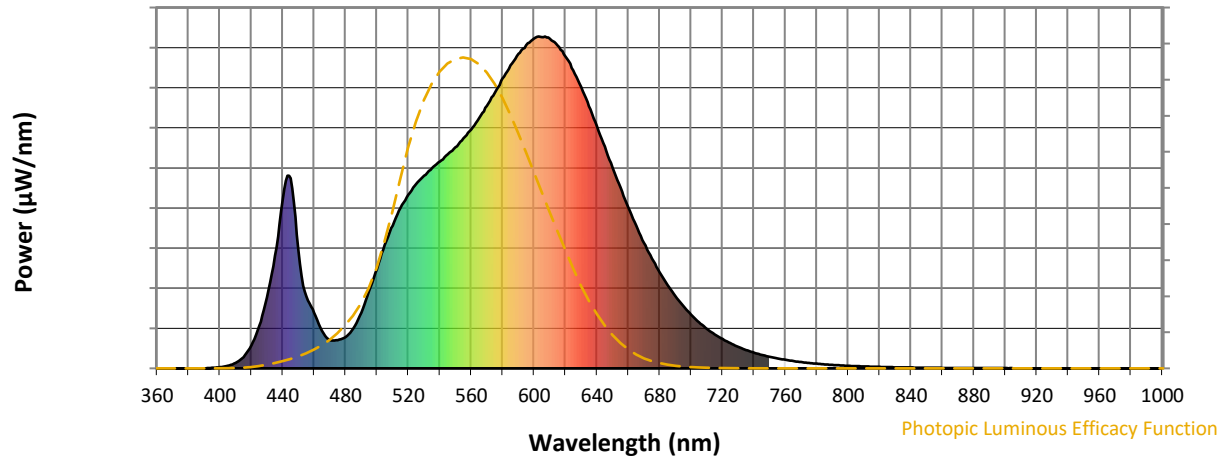
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

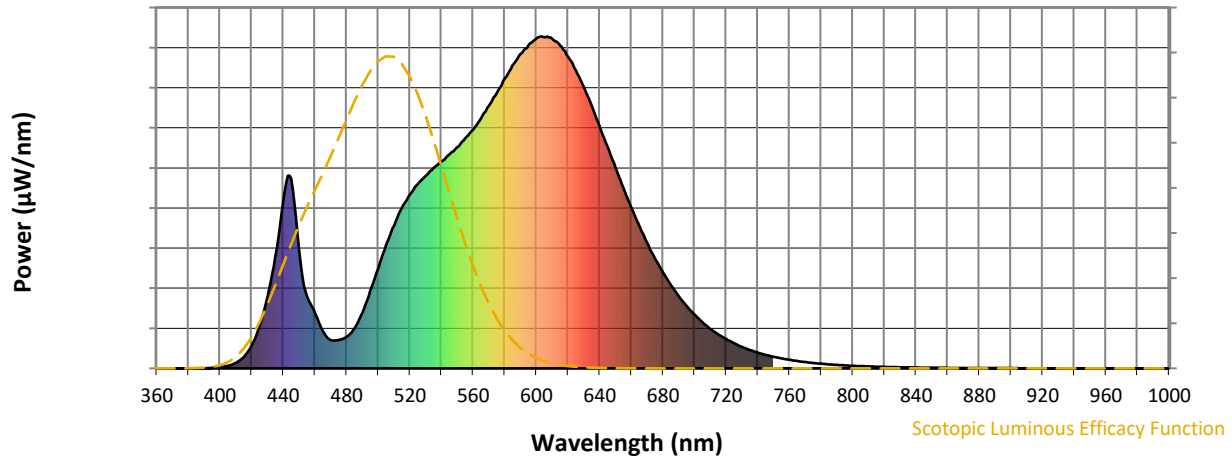


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



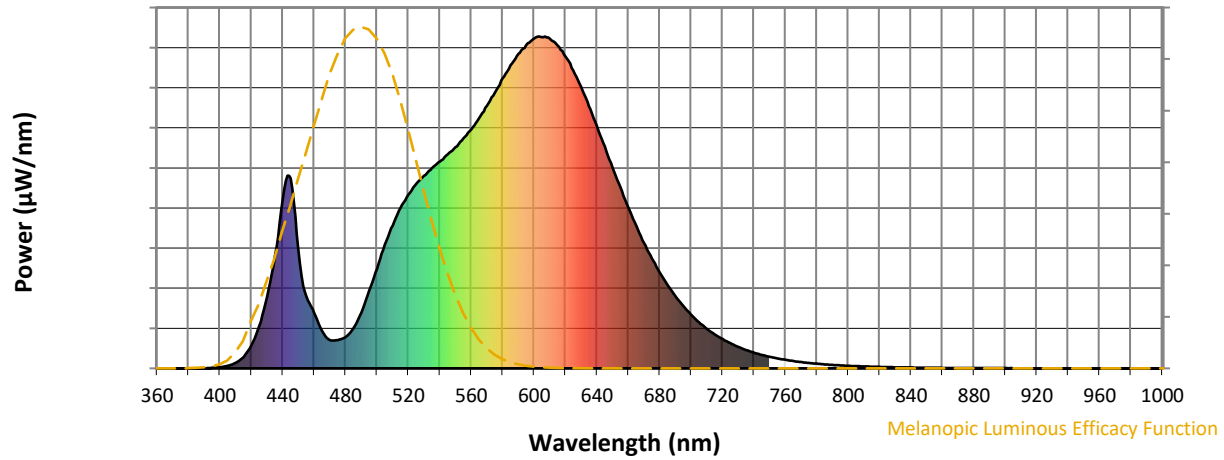
Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



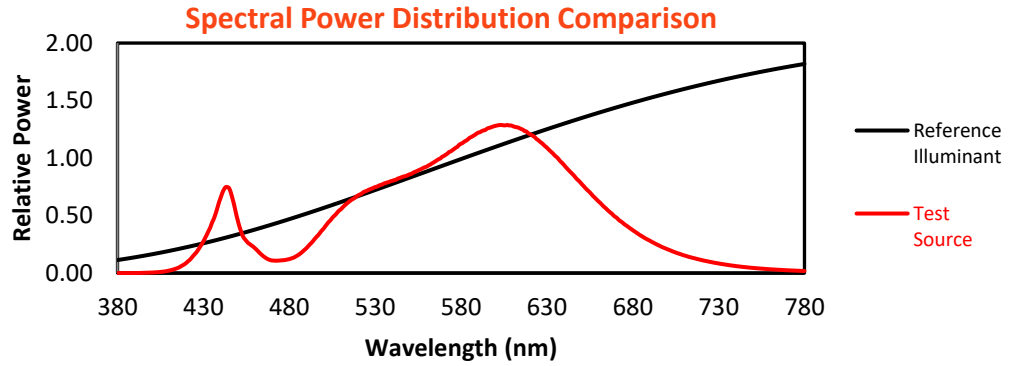
Melanopic Lumens: NR

M/P: 2.32

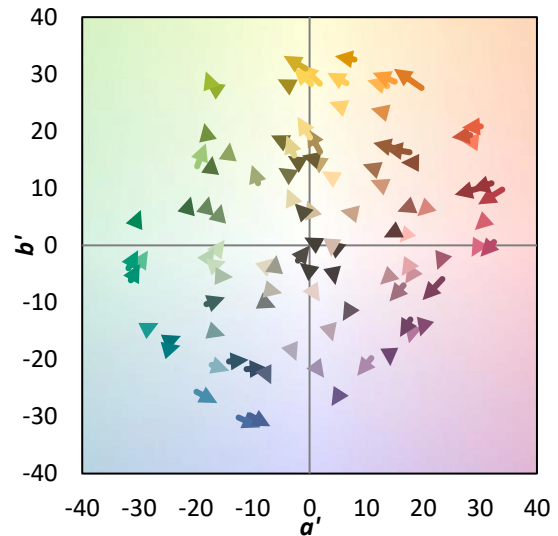
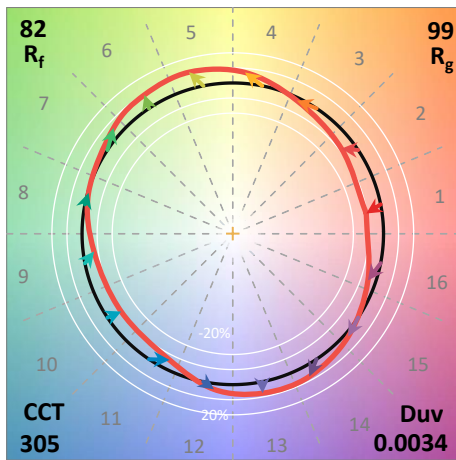
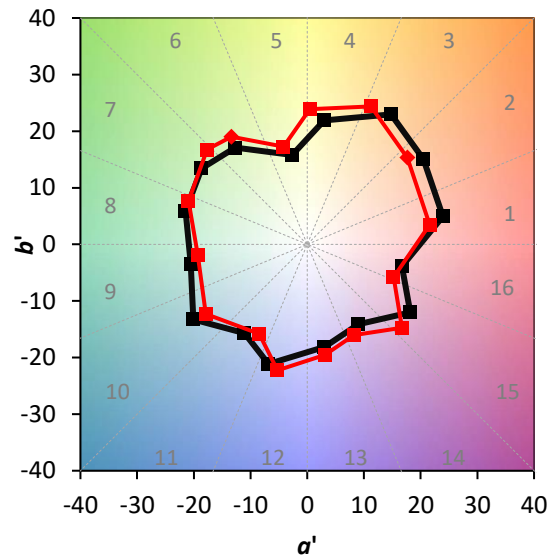
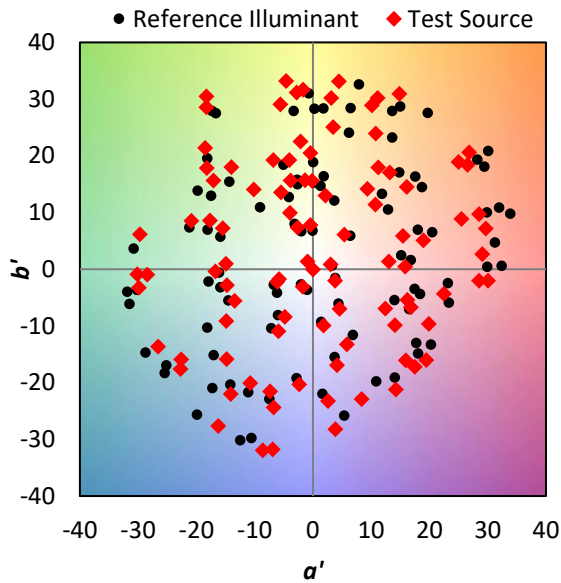
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

Summary

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

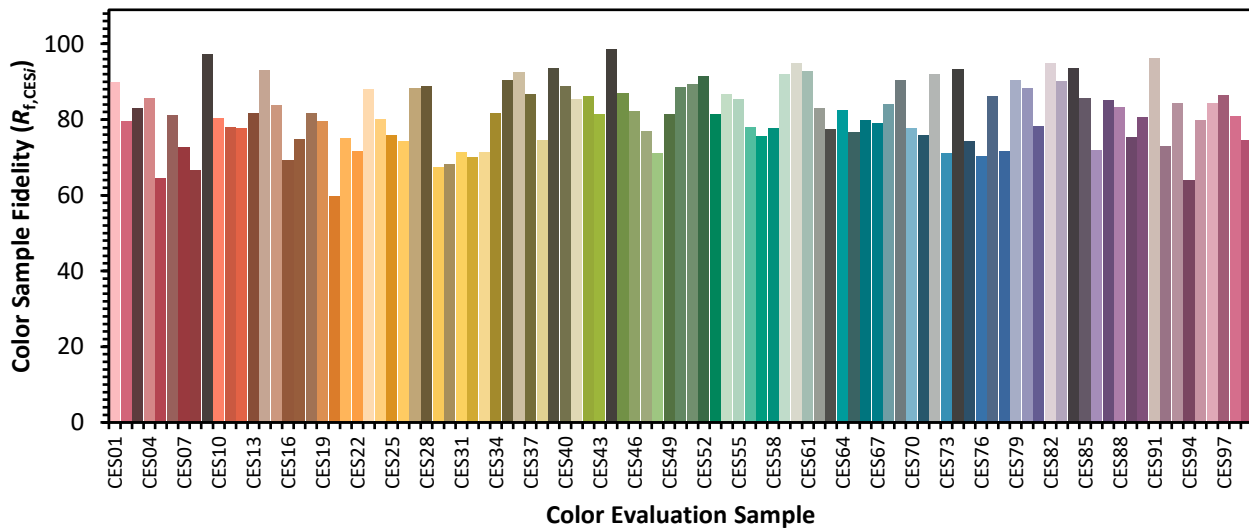


Color Vector Graphics

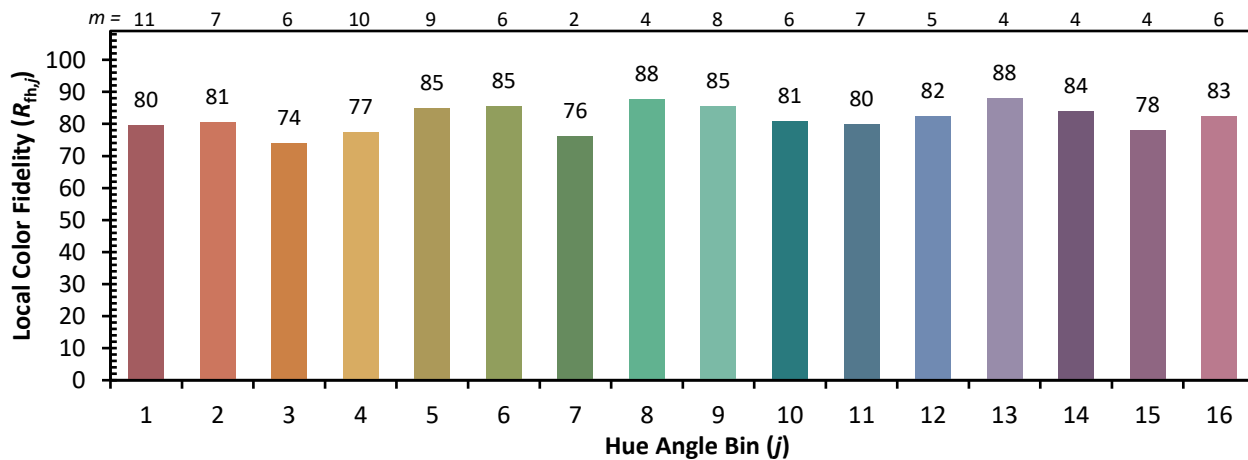
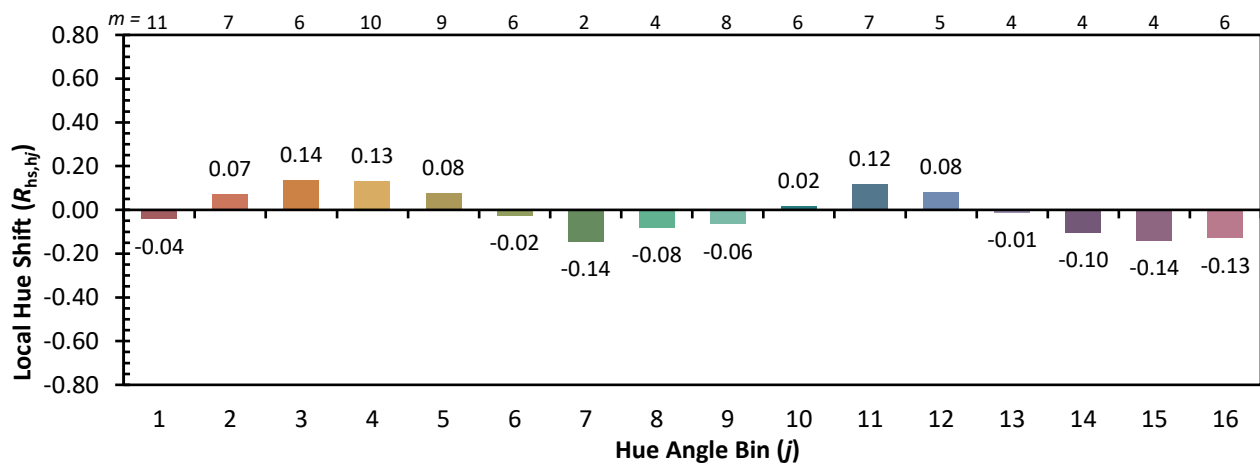
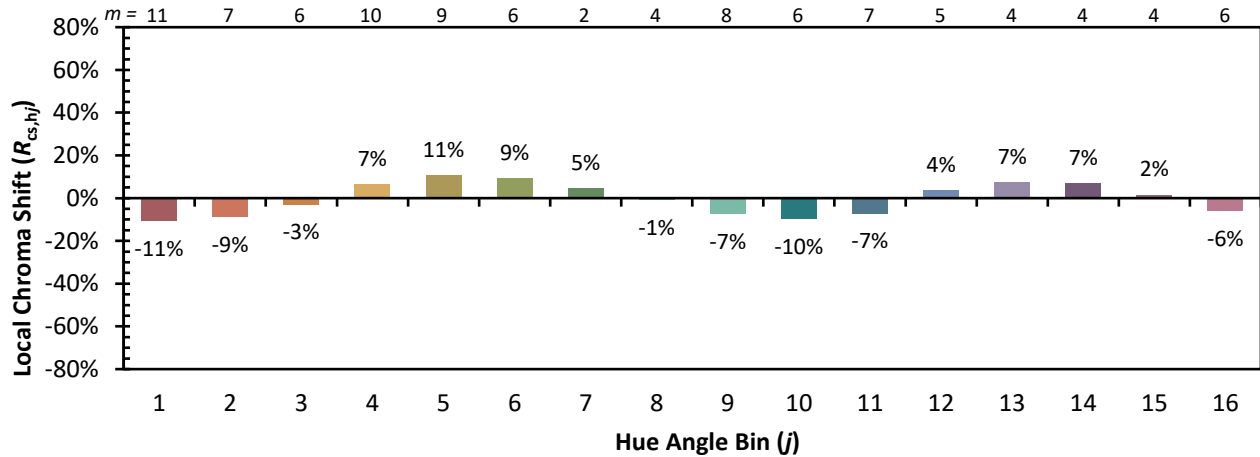


Individual Sample Fidelity Index ($R_{f,i}$)

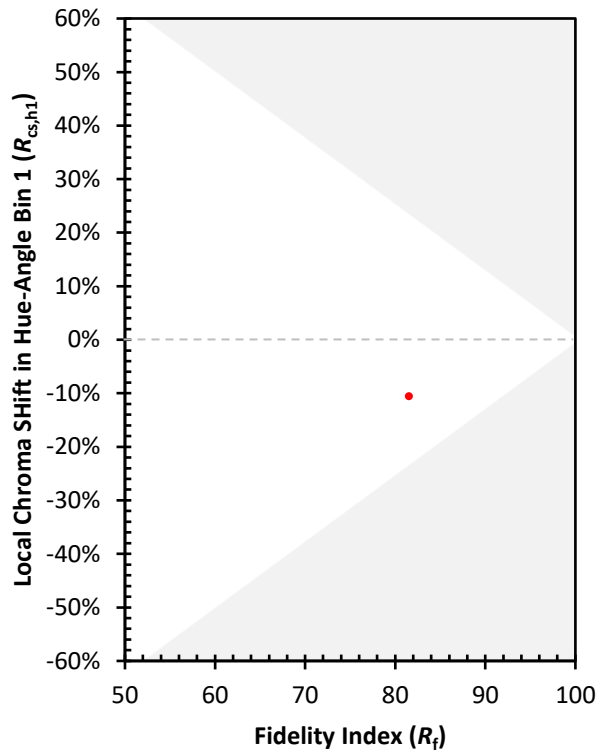
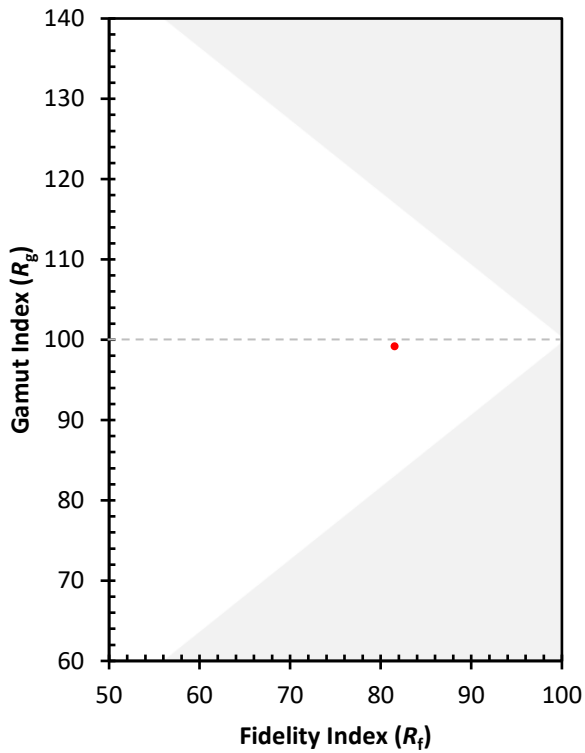
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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