

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: P320786

Luminaire Tested: **GLEON-SA2A-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320786
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-SA2A-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6659 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

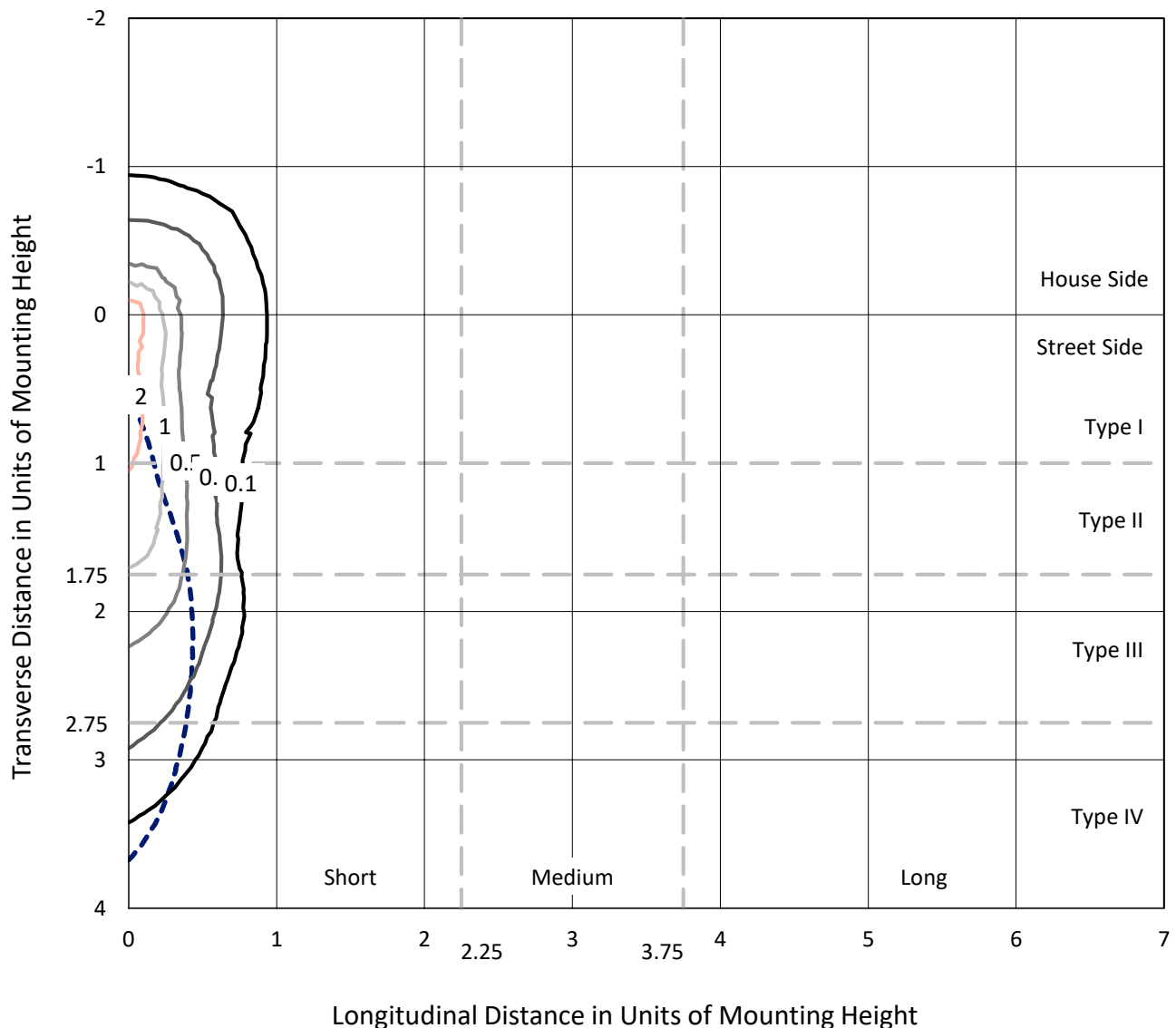
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320786
 CATALOG NUMBER: GLEON-SA2A-830-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

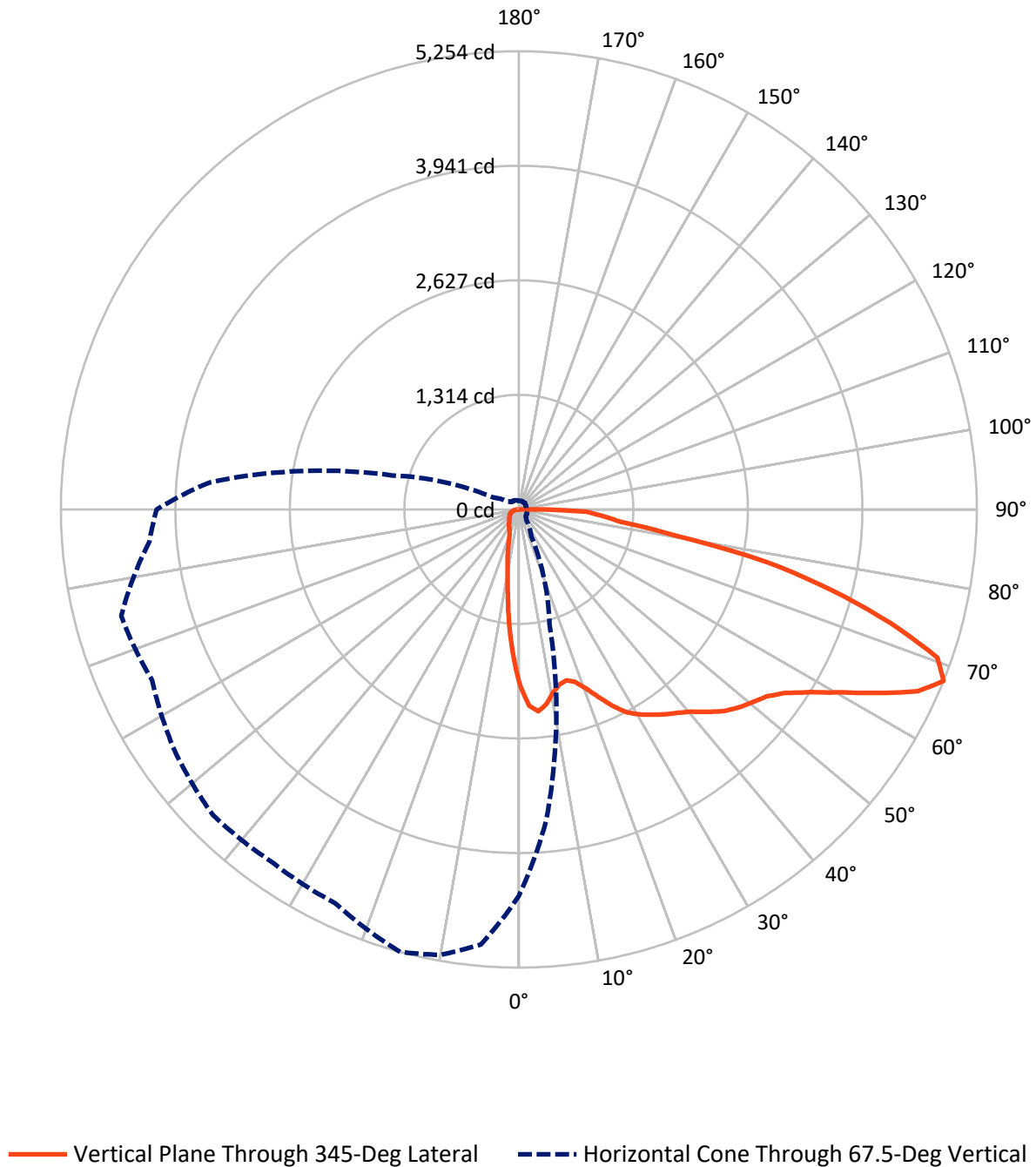
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P320786
CATALOG NUMBER: GLEON-SA2A-830-U-SLR

Luminous Intensity Polar Plot



REPORT NUMBER: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

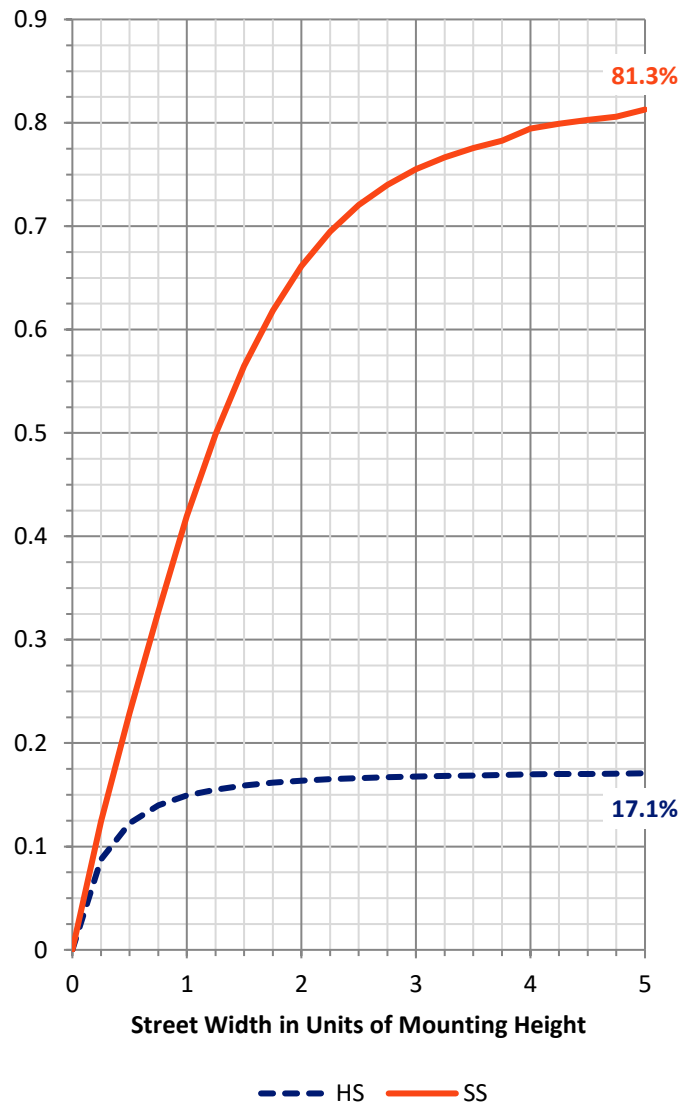
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.2	0.0	1151.2
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	5507.8	0.0	5507.8
	% Fixture	82.7	0.0	82.7
Total	Lumens	6659.0	0.0	6659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	2.4
10°-20°	325.3	4.9
20°-30°	462.6	6.9
30°-40°	666.6	10.0
40°-50°	939.4	14.1
50°-60°	1305.9	19.6
60°-70°	1579.3	23.7
70°-80°	970.8	14.6
80°-90°	252.6	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6659.0	100.0
0°-180°	6659.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320786

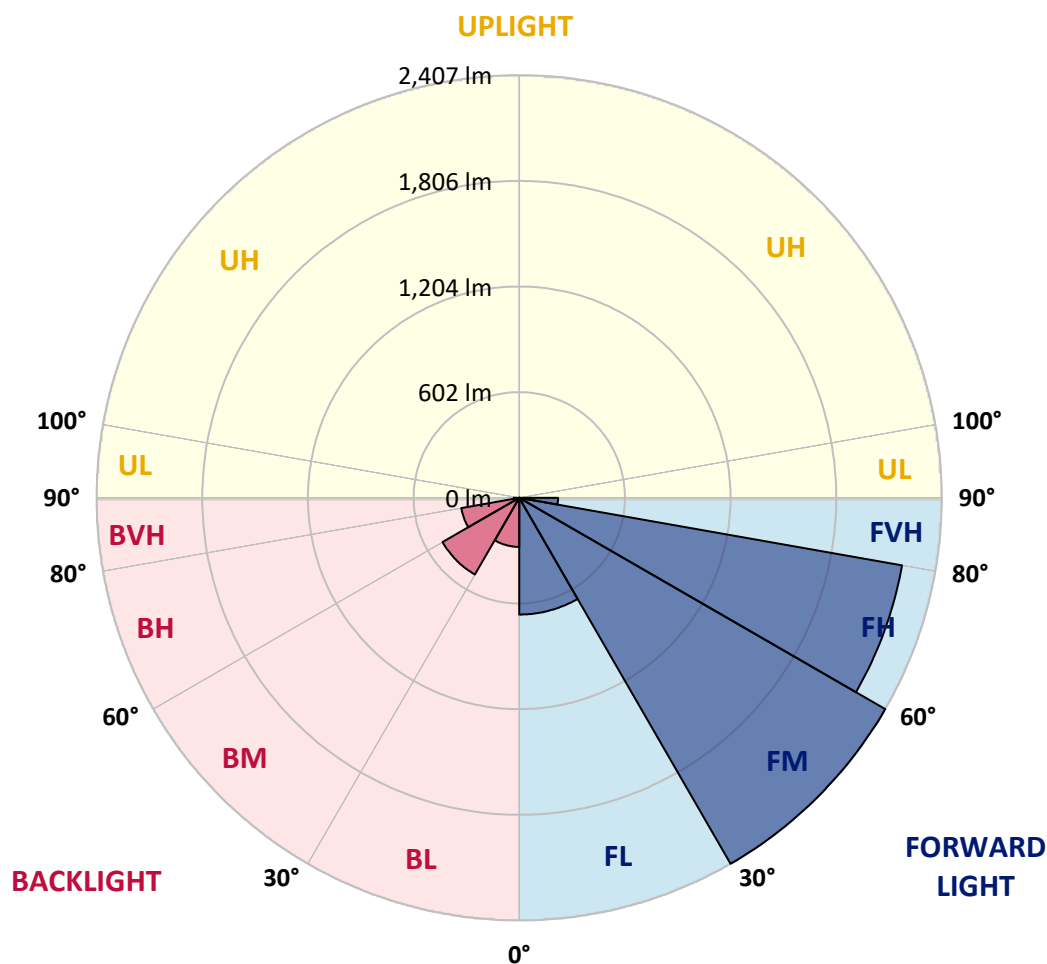
CATALOG NUMBER: GLEON-SA2A-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.9	10.0			
FM	(30°-60°)	2407.4	36.2			
FH	(60°-80°)	2214.6	33.3			G2/5000
FVH	(80°-90°)	220.9	3.3			G2/225
BL	(0°-30°)	279.5	4.2	B1/500		
BM	(30°-60°)	504.6	7.6	B1/1000		
BH	(60°-80°)	335.5	5.0	B1/500		G1/500
BVH	(80°-90°)	31.7	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: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7
2.5°	2173.3	2154.1	2125.1	2096.1	2074.5	2052.7	2027.9	2003.2	1974.9	1946.4	1929.7
5°	2137.3	2084.1	2014.9	1945.6	1899.9	1854.1	1802.1	1750.2	1698.8	1647.5	1619.8
7.5°	1975.5	1895.6	1805.6	1715.6	1649.1	1582.2	1510.4	1438.2	1374.3	1310.1	1270.5
10°	1816.3	1720.4	1617.1	1513.5	1428.4	1343.2	1271.0	1198.6	1150.4	1102.2	1065.7
12.5°	1702.0	1595.8	1482.1	1368.2	1283.0	1197.8	1152.0	1106.2	1066.3	1026.3	984.3
15°	1656.8	1536.7	1420.4	1303.8	1226.3	1148.8	1098.0	1046.8	993.3	939.5	887.9
17.5°	1696.7	1556.1	1429.7	1303.2	1201.8	1100.3	1029.3	957.9	887.4	816.8	756.9
20°	1821.3	1641.9	1476.5	1310.9	1176.0	1041.0	945.7	850.1	759.6	669.0	601.2
22.5°	1996.2	1758.7	1542.8	1326.9	1152.5	977.9	858.3	738.5	631.5	524.5	457.9
25°	2208.7	1913.7	1638.4	1362.9	1142.9	922.8	775.8	628.8	516.0	402.8	355.4
27.5°	2432.6	2098.5	1757.2	1415.6	1144.5	873.5	706.3	538.9	437.2	335.5	303.0
30°	2619.2	2309.6	1895.6	1481.3	1150.7	820.0	640.8	461.7	377.8	293.9	272.9
32.5°	2789.9	2456.8	2000.0	1542.8	1157.6	772.1	590.2	408.1	339.7	271.0	253.7
35°	2966.1	2587.5	2072.9	1558.0	1145.6	732.9	555.6	378.3	315.2	251.9	237.2
37.5°	3160.2	2728.9	2143.2	1557.2	1125.4	693.5	528.7	363.7	299.2	234.6	223.9
40°	3376.7	2885.2	2219.3	1553.5	1107.0	660.3	508.8	357.0	290.5	223.6	214.6
42.5°	3588.3	3034.3	2290.2	1546.0	1092.1	637.9	489.1	340.2	282.5	224.4	211.7
45°	3747.3	3164.5	2351.7	1538.6	1080.9	623.3	473.6	324.0	275.0	226.0	209.8
47.5°	3867.9	3295.2	2419.8	1544.2	1079.8	615.5	462.7	309.9	260.9	211.7	205.0
50°	4021.2	3452.3	2519.1	1586.0	1094.5	603.0	449.9	296.6	247.3	198.1	207.1
52.5°	4212.1	3676.4	2673.0	1669.3	1125.1	580.9	429.7	278.5	230.8	182.9	197.0
55°	4492.4	3963.7	2869.7	1775.5	1162.1	548.4	399.1	249.5	209.0	168.3	180.8
57.5°	4744.0	4253.9	3058.5	1862.8	1185.3	507.4	360.5	213.5	184.5	155.5	162.7
60°	4856.1	4403.5	3146.9	1890.0	1171.4	452.9	317.1	181.0	162.9	144.8	143.5
62.5°	4812.5	4308.5	3059.8	1811.2	1103.8	396.4	278.7	161.1	147.5	133.6	130.7
65°	4684.7	4009.8	2816.0	1622.2	989.6	357.0	254.5	152.0	136.8	121.7	118.5
67.5°	4432.8	3584.6	2470.4	1356.2	844.5	332.8	240.7	148.6	130.2	111.6	107.8
70°	3980.7	3072.9	2072.4	1071.6	694.9	317.9	231.6	145.4	123.0	100.4	96.9
72.5°	3269.6	2463.7	1654.9	845.8	580.9	316.0	230.6	145.1	117.1	89.2	86.0
75°	2341.0	1871.4	1263.3	654.9	475.8	296.6	218.8	141.1	109.2	76.9	74.0
77.5°	1575.3	1295.2	878.0	460.6	353.0	245.5	184.0	122.5	93.4	64.4	61.5
80°	1011.7	896.4	588.4	280.3	229.0	177.6	131.5	85.5	68.2	50.6	48.2
82.5°	742.3	667.2	408.9	150.7	127.3	103.6	80.4	57.2	46.6	35.9	34.9
85°	471.8	520.2	301.1	82.0	67.1	52.2	43.1	34.1	26.9	19.7	19.7
87.5°	91.6	126.7	83.3	39.7	29.0	18.4	15.7	12.8	7.2	1.3	1.6
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: P320786
 CATALOG NUMBER: GLEON-SA2A-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: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7
2.5°	1912.6	1894.3	1875.9	1855.1	1834.1	1814.7	1795.0	1773.4	1777.4	1760.9	1744.4
5°	1592.1	1562.8	1533.2	1507.7	1482.1	1460.0	1437.7	1417.7	1435.0	1423.3	1411.6
7.5°	1230.5	1194.3	1157.9	1127.2	1096.6	1072.9	1049.0	1032.5	1049.5	1047.4	1045.2
10°	1029.3	994.1	958.7	924.9	891.1	862.3	833.3	808.8	804.6	792.3	779.8
12.5°	941.9	893.8	845.3	809.9	774.5	740.1	705.8	677.0	664.0	643.8	623.3
15°	836.2	779.3	722.3	682.1	641.6	608.3	574.8	550.0	541.8	526.1	510.4
17.5°	697.0	634.7	572.4	531.7	490.7	464.0	437.2	420.7	420.7	416.1	411.6
20°	533.3	477.6	422.0	390.8	359.7	345.6	331.2	324.3	326.4	326.7	326.7
22.5°	391.1	357.0	322.9	310.4	297.7	292.6	287.5	284.6	285.7	285.9	286.2
25°	308.0	295.0	281.7	275.3	268.6	265.4	262.2	261.2	263.6	263.8	263.8
27.5°	270.5	262.5	254.3	250.3	246.0	244.7	243.3	241.5	243.9	243.9	243.6
30°	251.6	243.1	234.6	229.5	224.4	225.0	225.2	224.7	226.3	227.4	228.2
32.5°	236.2	227.9	219.6	214.6	209.3	208.5	207.7	207.1	210.6	212.5	214.3
35°	222.3	213.3	204.2	199.4	194.6	192.8	190.9	189.6	192.8	195.2	197.5
37.5°	213.0	203.7	194.1	189.6	184.8	182.4	180.0	178.4	179.7	180.8	181.8
40°	205.5	195.9	186.1	180.8	175.4	173.1	170.7	169.3	170.1	170.4	170.7
42.5°	198.6	189.3	180.0	174.1	168.0	165.1	162.1	160.5	161.1	161.6	161.9
45°	193.6	184.2	174.7	167.7	160.5	157.3	154.2	152.3	152.6	152.6	152.6
47.5°	198.3	184.8	170.9	162.9	154.7	151.0	147.2	145.4	144.8	144.3	143.8
50°	215.9	192.8	169.3	159.2	148.8	144.8	140.6	138.4	137.1	136.6	136.0
52.5°	210.9	190.9	170.7	157.6	144.3	139.5	134.7	131.3	129.9	129.1	128.3
55°	193.0	180.5	167.7	152.0	136.3	132.1	127.5	125.1	122.7	122.2	121.7
57.5°	169.6	164.5	159.5	143.5	127.5	123.5	119.3	117.7	115.5	115.5	115.3
60°	141.9	149.4	156.8	138.4	119.8	115.3	110.8	109.4	108.6	108.4	108.1
62.5°	127.5	139.8	151.8	132.3	112.6	107.8	103.0	101.4	101.2	101.4	101.4
65°	115.3	119.0	122.7	113.7	104.6	99.8	94.8	93.2	93.7	94.5	95.3
67.5°	104.1	103.3	102.5	99.3	95.8	91.9	87.6	86.0	86.3	87.3	88.4
70°	93.4	92.4	91.1	88.7	86.3	82.8	79.3	78.3	78.0	79.3	80.4
72.5°	82.8	81.5	79.9	78.0	75.9	72.9	70.0	69.2	69.5	70.3	71.1
75°	71.1	70.0	68.7	67.1	65.2	62.6	59.9	59.4	59.9	60.7	61.5
77.5°	58.3	58.0	57.5	56.2	54.8	51.9	48.7	48.5	49.3	50.1	50.6
80°	45.5	45.8	46.1	45.0	43.9	40.7	37.3	37.0	37.8	38.6	39.4
82.5°	33.5	34.3	34.9	33.5	32.2	28.5	24.8	24.2	26.9	27.7	28.5
85°	19.4	20.5	21.6	20.5	19.4	15.7	12.0	11.7	14.1	15.4	16.8
87.5°	1.6	2.1	2.7	2.4	2.1	1.1	0.0	0.0	0.3	1.3	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: GLEON-SA2A-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: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7
2.5°	1734.0	1723.6	1720.4	1717.2	1705.5	1693.5	1705.8	1717.7	1722.8	1727.9	1714.8
5°	1410.0	1408.1	1408.1	1407.9	1397.2	1386.3	1394.5	1402.5	1384.7	1366.9	1365.0
7.5°	1056.7	1068.1	1077.5	1086.5	1083.0	1079.6	1087.3	1095.0	1072.4	1049.5	1038.3
10°	782.5	784.9	795.0	805.1	807.5	809.6	819.2	828.5	811.0	793.4	785.7
12.5°	610.5	597.7	599.0	600.1	604.9	609.4	619.5	629.4	622.2	614.7	615.5
15°	494.4	478.2	471.5	464.6	469.9	475.2	482.4	489.3	489.6	489.6	496.5
17.5°	403.6	395.4	388.7	381.8	389.0	395.9	396.7	397.5	397.8	398.0	397.5
20°	330.7	334.7	332.5	330.4	333.1	335.5	337.6	339.4	337.1	334.4	327.7
22.5°	289.9	293.4	296.1	298.4	303.0	307.2	305.1	302.7	297.9	292.9	287.8
25°	266.2	268.6	271.3	274.0	277.7	281.1	277.4	273.7	270.2	266.8	263.3
27.5°	246.3	248.7	251.1	253.2	256.7	259.8	256.4	252.9	250.0	247.1	244.4
30°	230.0	231.6	233.5	235.4	238.5	241.5	238.5	235.4	233.2	230.8	229.0
32.5°	216.2	217.8	218.6	219.4	222.3	225.2	223.1	221.0	219.1	217.2	215.9
35°	201.0	204.2	204.7	205.3	208.2	211.1	209.8	208.2	206.1	203.9	201.5
37.5°	185.6	189.3	191.4	193.3	196.2	199.1	197.8	196.5	193.6	190.6	186.4
40°	172.5	174.1	178.1	181.8	186.6	191.2	188.5	185.6	181.0	176.5	174.4
42.5°	161.6	161.3	165.1	168.8	176.0	182.9	178.1	173.3	169.1	164.8	164.3
45°	152.0	151.2	153.1	154.9	162.7	170.1	165.3	160.3	157.9	155.5	155.5
47.5°	143.5	143.0	144.3	145.4	150.2	154.7	152.3	149.9	148.6	147.2	147.5
50°	135.8	135.2	136.6	137.6	139.5	141.1	141.6	141.9	141.1	140.3	140.8
52.5°	128.6	128.6	129.1	129.4	131.8	134.2	134.2	133.9	133.9	133.9	134.4
55°	122.5	123.0	123.0	123.0	126.7	130.2	129.1	128.1	128.3	128.3	128.9
57.5°	116.3	117.1	117.7	118.2	121.9	125.7	124.6	123.5	123.5	123.5	123.8
60°	109.4	110.5	111.6	112.6	116.3	120.1	119.0	117.7	117.9	118.2	118.5
62.5°	102.8	103.8	104.9	106.0	109.7	113.4	112.4	111.0	111.8	112.4	112.4
65°	96.4	97.2	98.2	99.3	102.8	106.2	105.2	104.1	105.2	106.0	106.5
67.5°	89.2	89.7	90.8	91.9	95.3	98.8	97.7	96.4	97.7	98.8	99.8
70°	80.9	81.5	82.8	83.9	87.3	90.8	89.5	88.1	89.5	90.8	91.9
72.5°	71.9	72.4	73.7	74.8	78.8	82.8	81.2	79.6	81.2	82.8	83.3
75°	62.0	62.6	64.2	65.5	69.5	73.5	72.1	70.6	71.9	73.2	73.5
77.5°	51.4	52.2	54.3	56.4	59.6	62.8	62.0	61.2	62.0	62.8	62.8
80°	40.2	41.0	43.7	46.1	47.9	49.8	50.1	50.3	50.6	50.9	50.6
82.5°	29.8	30.9	33.3	35.7	35.7	35.7	37.8	39.7	39.7	39.4	39.1
85°	18.4	19.7	21.8	24.0	22.6	21.3	24.8	28.0	28.0	27.7	27.2
87.5°	3.7	5.1	7.2	9.1	7.7	6.4	9.9	13.3	13.6	13.6	13.0
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: P320786
 CATALOG NUMBER: GLEON-SA2A-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: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7
2.5°	1701.5	1722.3	1742.8	1748.1	1756.1	1759.5	1762.7	1788.8	1814.7	1845.0	1875.4
5°	1362.9	1378.3	1393.7	1396.1	1404.4	1408.6	1412.9	1444.6	1476.0	1518.3	1560.7
7.5°	1027.1	1030.9	1034.6	1034.1	1041.0	1050.3	1059.3	1093.2	1126.7	1172.2	1217.5
10°	777.9	786.5	794.7	802.4	817.6	835.2	852.5	887.1	921.7	966.7	1011.4
12.5°	616.3	626.2	635.8	644.3	661.9	685.3	708.5	750.0	791.5	845.3	898.8
15°	503.2	502.4	501.6	507.4	522.9	548.4	573.7	617.7	661.6	720.7	779.5
17.5°	397.0	393.0	389.0	393.5	407.9	428.9	449.7	486.9	524.0	581.2	638.4
20°	321.1	318.4	315.8	320.0	329.1	337.9	346.6	373.5	400.2	446.7	493.1
22.5°	282.5	282.2	281.7	284.1	288.3	292.9	297.1	310.2	322.9	353.0	382.8
25°	259.8	259.6	259.3	260.4	263.8	267.3	270.8	279.3	287.8	302.2	316.6
27.5°	241.7	241.2	240.7	240.9	241.7	247.1	252.1	256.1	259.8	269.7	279.3
30°	227.1	226.8	226.6	226.6	225.8	227.6	229.5	235.6	241.5	251.6	261.7
32.5°	214.6	213.3	211.9	209.0	207.1	209.8	212.5	218.8	225.2	234.6	243.9
35°	198.9	195.4	191.7	190.1	190.4	193.0	195.7	202.1	208.2	218.3	228.2
37.5°	181.8	180.8	179.4	179.2	180.0	182.6	185.3	190.9	196.2	206.3	216.2
40°	172.3	171.7	171.2	170.7	171.2	173.9	176.5	181.8	186.9	196.7	206.3
42.5°	163.7	163.5	163.2	163.2	163.5	166.4	169.3	174.7	179.7	188.5	197.3
45°	155.5	155.7	155.7	156.3	157.1	160.0	162.7	168.5	174.4	182.9	191.4
47.5°	147.8	148.6	149.1	150.4	151.2	154.4	157.3	163.7	170.1	180.8	191.2
50°	141.1	141.9	142.4	143.5	145.6	149.4	153.1	160.8	168.3	186.1	203.7
52.5°	135.0	135.8	136.6	137.6	140.3	144.6	148.8	158.4	167.7	188.5	209.3
55°	129.4	130.2	130.7	132.3	135.0	138.7	142.2	153.9	165.6	180.8	195.9
57.5°	124.1	124.9	125.4	126.5	127.8	131.8	135.5	148.0	160.5	171.2	181.6
60°	118.5	119.0	119.3	119.3	120.3	124.9	129.4	145.4	161.1	159.2	157.1
62.5°	112.4	112.9	113.1	112.4	113.7	118.5	123.3	144.0	164.8	152.0	139.2
65°	106.8	106.5	106.2	105.4	107.0	111.8	116.3	126.7	137.1	132.1	127.0
67.5°	100.6	99.8	99.0	98.0	99.6	103.8	107.8	111.3	114.7	115.3	115.8
70°	92.9	91.9	90.8	90.5	91.3	94.8	98.2	100.6	102.8	103.8	104.6
72.5°	83.9	83.1	82.3	81.7	82.0	84.9	87.6	89.7	91.9	92.6	93.2
75°	73.7	73.7	73.5	71.9	71.9	74.3	76.4	78.3	80.1	81.2	82.3
77.5°	62.8	63.1	63.1	61.0	60.7	63.1	65.2	66.8	68.2	69.2	70.0
80°	50.3	49.8	49.3	47.9	47.4	50.3	53.0	54.3	55.4	55.6	55.6
82.5°	38.6	37.5	36.2	33.3	33.5	36.7	39.7	40.7	41.8	41.8	41.8
85°	26.4	24.2	21.8	19.4	19.7	23.2	26.4	27.4	28.5	29.0	29.3
87.5°	12.5	10.4	8.0	6.1	6.1	9.1	11.7	12.2	12.8	13.8	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320786
 CATALOG NUMBER: GLEON-SA2A-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: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7
2.5°	1898.5	1921.4	1945.1	1968.8	1996.0	2023.1	2054.8	2086.2	2113.1	2140.0	2162.4
5°	1597.1	1633.6	1676.5	1719.3	1773.9	1828.5	1895.3	1961.9	2021.3	2080.6	2149.6
7.5°	1265.1	1312.5	1368.4	1424.4	1494.9	1565.5	1652.0	1738.5	1822.4	1906.0	2011.9
10°	1061.2	1111.0	1166.1	1221.0	1292.8	1364.5	1456.0	1547.4	1641.6	1735.6	1855.4
12.5°	954.2	1009.3	1057.8	1106.2	1164.5	1222.6	1311.2	1399.9	1510.6	1621.1	1736.4
15°	840.0	900.1	958.2	1016.2	1079.8	1143.2	1229.5	1315.7	1436.9	1558.0	1690.6
17.5°	701.8	765.2	836.0	906.5	989.6	1072.4	1182.9	1293.4	1436.9	1580.1	1736.4
20°	557.8	622.5	707.1	791.8	895.1	998.1	1141.3	1284.6	1477.9	1670.9	1870.3
22.5°	440.1	497.1	589.4	681.6	800.8	920.1	1103.8	1287.2	1539.9	1792.3	2061.5
25°	356.8	397.0	487.7	578.3	715.9	853.5	1080.9	1308.0	1630.2	1952.0	2285.9
27.5°	305.6	332.0	416.7	501.1	651.5	801.6	1071.6	1341.3	1744.6	2148.0	2530.0
30°	280.1	298.4	370.1	441.4	594.2	747.1	1060.4	1373.8	1854.9	2335.7	2720.9
32.5°	258.8	273.4	334.7	395.6	544.7	693.8	1038.8	1383.6	1931.8	2480.0	2882.5
35°	240.7	252.9	306.2	359.4	505.8	652.3	1002.6	1353.0	1980.0	2607.0	3050.8
37.5°	226.0	235.6	284.9	334.1	472.3	610.5	961.4	1312.3	2022.9	2733.4	3240.1
40°	214.6	222.8	268.9	315.0	440.4	565.7	926.0	1285.9	2082.0	2878.0	3440.0
42.5°	208.2	218.8	255.1	291.0	410.0	529.0	897.5	1265.9	2136.8	3007.4	3614.9
45°	206.6	221.8	247.9	274.0	387.4	500.8	872.2	1243.3	2172.2	3101.1	3746.7
47.5°	203.9	216.4	242.3	268.1	376.2	484.0	858.6	1232.9	2207.6	3182.0	3856.1
50°	205.5	207.1	237.7	268.1	374.6	481.1	874.0	1267.0	2284.3	3301.3	3981.3
52.5°	202.6	195.7	229.2	262.8	374.3	485.9	918.5	1351.1	2426.7	3502.1	4116.8
55°	187.2	178.1	213.3	248.4	368.7	488.8	971.5	1453.9	2617.9	3781.6	4360.4
57.5°	173.6	165.3	195.2	224.7	351.7	478.7	1026.1	1573.2	2820.0	4066.5	4634.9
60°	155.5	153.6	174.9	196.2	325.3	454.2	1071.1	1687.7	2955.7	4223.6	4740.6
62.5°	140.6	141.6	157.3	173.1	292.3	411.3	1086.0	1760.3	2952.0	4143.7	4634.1
65°	129.1	131.0	146.4	161.9	264.1	366.3	1037.0	1707.4	2802.7	3897.7	4423.5
67.5°	117.9	120.1	138.4	156.5	239.1	321.3	914.5	1507.4	2534.0	3560.4	4155.7
70°	107.3	110.0	129.9	149.9	221.0	291.8	756.6	1221.5	2197.8	3173.8	3845.5
72.5°	95.8	98.5	119.8	141.1	209.5	277.7	616.9	955.8	1783.5	2611.0	3289.3
75°	84.1	86.0	109.2	132.1	193.8	255.6	484.0	712.2	1365.0	2017.8	2484.5
77.5°	72.4	74.8	94.2	113.4	164.5	215.4	364.7	514.1	1001.6	1488.8	1727.9
80°	57.8	59.9	73.7	87.3	127.0	166.4	250.8	335.2	689.3	1043.4	1178.1
82.5°	44.2	46.6	55.9	65.0	90.5	116.1	152.0	188.0	457.9	727.6	738.8
85°	30.4	31.1	37.8	44.2	55.9	67.6	87.1	106.5	303.0	499.5	416.1
87.5°	15.2	15.2	19.7	24.2	30.1	35.9	46.1	55.9	96.9	137.9	79.3
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: P320786
 CATALOG NUMBER: GLEON-SA2A-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: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7
2.5°	2190.8	2210.3	2230.0	2244.9	2260.1	2281.9	2303.7	2307.7	2312.0	2303.5	2294.9
5°	2219.1	2277.9	2337.0	2391.6	2446.2	2478.9	2511.7	2518.3	2525.0	2504.5	2483.7
7.5°	2114.4	2216.9	2319.4	2413.4	2507.4	2564.4	2621.6	2634.4	2647.4	2613.9	2580.3
10°	1974.7	2100.6	2226.5	2350.3	2474.1	2556.9	2639.7	2656.2	2672.7	2630.9	2589.1
12.5°	1866.6	2001.0	2135.5	2265.9	2396.6	2482.4	2568.1	2588.6	2609.1	2578.8	2548.1
15°	1833.3	1959.8	2086.2	2199.9	2313.8	2383.9	2454.2	2462.4	2470.9	2466.1	2461.3
17.5°	1893.7	2007.9	2122.4	2184.2	2246.2	2274.2	2302.4	2311.5	2320.8	2332.8	2345.0
20°	2040.2	2120.6	2201.2	2198.6	2195.6	2182.1	2168.2	2165.8	2163.4	2197.8	2232.4
22.5°	2258.7	2290.7	2322.9	2248.1	2173.3	2127.7	2082.0	2072.9	2063.6	2100.1	2136.8
25°	2496.0	2490.1	2484.0	2341.5	2198.8	2112.0	2025.2	2015.1	2005.0	2036.2	2067.6
27.5°	2730.8	2692.4	2654.1	2460.5	2267.0	2141.1	2015.1	2005.0	1994.9	2022.6	2050.3
30°	2903.0	2841.5	2780.0	2560.9	2341.8	2192.2	2042.6	2026.0	2009.3	2043.4	2077.4
32.5°	3037.5	2954.9	2872.4	2642.4	2412.4	2250.5	2088.6	2062.8	2037.0	2082.5	2128.0
35°	3171.7	3055.6	2939.2	2715.1	2490.6	2319.4	2148.0	2116.3	2084.6	2147.2	2209.8
37.5°	3340.5	3173.8	3006.9	2796.8	2586.7	2422.7	2258.5	2226.0	2193.5	2273.1	2353.0
40°	3523.6	3301.3	3079.0	2886.3	2693.5	2565.7	2437.6	2406.8	2375.6	2472.5	2569.4
42.5°	3675.9	3420.1	3164.2	2994.1	2823.7	2733.7	2643.4	2643.2	2642.6	2740.9	2839.1
45°	3799.7	3519.1	3238.2	3099.2	2960.0	2913.1	2866.3	2903.8	2941.4	3030.0	3118.9
47.5°	3892.1	3602.2	3312.0	3219.6	3127.2	3134.1	3141.0	3217.4	3293.9	3350.8	3408.1
50°	3952.3	3677.5	3402.5	3374.0	3345.5	3407.5	3469.8	3557.4	3645.3	3684.2	3723.0
52.5°	4039.8	3779.7	3519.4	3551.3	3583.3	3710.0	3836.7	3925.4	4014.0	4028.4	4043.0
55°	4242.5	3967.7	3692.7	3753.9	3815.4	4001.2	4187.3	4256.6	4325.8	4331.1	4336.4
57.5°	4530.3	4231.0	3931.8	3997.8	4063.8	4278.4	4493.2	4567.8	4642.6	4632.2	4621.6
60°	4745.6	4481.0	4216.1	4282.7	4349.2	4558.5	4767.7	4853.5	4939.5	4916.6	4893.7
62.5°	4759.0	4617.6	4475.9	4536.1	4596.5	4801.5	5006.5	5094.7	5182.8	5142.9	5102.9
65°	4547.3	4610.7	4674.0	4694.0	4714.0	4905.1	5096.5	5163.9	5231.5	5211.3	5191.0
67.5°	4255.8	4489.3	4723.0	4682.8	4642.6	4732.3	4822.0	4891.5	4961.0	4949.6	4937.9
70°	3964.8	4276.5	4588.3	4390.7	4192.9	4155.9	4118.9	4193.7	4268.8	4222.5	4175.9
72.5°	3469.3	3801.6	4134.1	3770.2	3406.2	3279.7	3153.3	3248.3	3343.4	3269.6	3195.6
75°	2723.3	3090.5	3457.9	3023.6	2589.4	2420.6	2251.8	2333.5	2415.3	2364.7	2313.8
77.5°	2027.4	2389.2	2751.0	2309.6	1867.9	1742.5	1616.8	1641.1	1665.6	1657.0	1648.3
80°	1375.1	1627.2	1879.6	1585.7	1291.8	1301.4	1311.2	1299.8	1288.0	1305.1	1322.1
82.5°	877.5	1072.1	1267.0	1111.0	955.0	1044.4	1133.9	1090.0	1045.8	1062.0	1078.5
85°	500.8	691.1	881.8	821.9	761.7	813.9	866.3	798.2	730.0	759.8	789.9
87.5°	132.1	382.3	632.8	574.5	516.2	448.6	381.0	290.7	200.5	292.9	385.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320786
 CATALOG NUMBER: GLEON-SA2A-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: P320786

CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7	2028.7
2.5°	2290.4	2285.9	2269.7	2253.1	2228.7	2208.4	2173.3
5°	2455.0	2426.2	2376.7	2326.9	2271.5	2207.9	2137.3
7.5°	2513.3	2445.9	2350.9	2255.5	2169.8	2069.2	1975.5
10°	2488.5	2387.6	2264.1	2140.3	2036.2	1920.4	1816.3
12.5°	2441.1	2333.8	2197.8	2061.5	1943.0	1818.7	1702.0
15°	2375.9	2290.2	2162.6	2035.1	1915.8	1795.0	1656.8
17.5°	2304.5	2263.8	2171.7	2079.3	1976.0	1858.9	1696.7
20°	2247.0	2261.9	2225.2	2188.5	2105.7	2003.4	1821.3
22.5°	2208.2	2279.8	2308.0	2336.5	2286.7	2206.8	1996.2
25°	2186.3	2305.1	2399.6	2494.4	2472.3	2410.8	2208.7
27.5°	2195.9	2341.5	2488.2	2635.2	2655.7	2638.7	2432.6
30°	2224.7	2372.2	2550.8	2729.7	2811.4	2834.3	2619.2
32.5°	2272.6	2417.1	2611.8	2806.6	2930.2	3003.1	2789.9
35°	2345.0	2480.2	2683.1	2886.0	3045.7	3178.8	2966.1
37.5°	2469.3	2585.7	2772.8	2960.3	3167.4	3367.3	3160.2
40°	2651.4	2733.7	2891.8	3050.3	3310.9	3580.9	3376.7
42.5°	2881.2	2923.5	3048.9	3174.3	3460.8	3774.7	3588.3
45°	3130.1	3141.3	3220.1	3299.2	3579.5	3906.7	3747.3
47.5°	3369.7	3331.4	3362.8	3394.2	3670.6	4001.0	3867.9
50°	3616.3	3509.5	3493.0	3476.5	3761.6	4112.0	4021.2
52.5°	3867.1	3691.1	3625.9	3560.4	3870.3	4259.2	4212.1
55°	4112.5	3888.6	3800.8	3712.9	4036.4	4438.9	4492.4
57.5°	4367.9	4114.1	4032.7	3951.2	4280.5	4666.6	4744.0
60°	4642.6	4391.3	4326.1	4260.6	4584.0	4912.6	4856.1
62.5°	4903.2	4703.6	4669.2	4634.6	4891.0	5101.6	4812.5
65°	5077.4	4963.4	4995.4	5027.6	5123.2	5148.7	4684.7
67.5°	4961.0	4984.2	5119.2	5254.4	5188.7	5008.7	4432.8
70°	4314.6	4453.6	4773.3	5093.3	4947.4	4633.6	3980.7
72.5°	3351.6	3507.9	3982.6	4457.6	4323.1	3938.7	3269.6
75°	2490.1	2666.6	3190.6	3714.5	3527.9	2946.2	2341.0
77.5°	1766.5	1884.7	2402.0	2919.5	2615.2	1961.1	1575.3
80°	1285.9	1249.7	1538.0	1826.4	1775.8	1297.1	1011.7
82.5°	990.1	901.7	1037.5	1173.3	1165.8	900.1	742.3
85°	754.5	719.1	839.2	959.2	856.5	609.7	471.8
87.5°	439.8	494.7	636.0	777.7	583.6	185.0	91.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320786
 CATALOG NUMBER: GLEON-SA2A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

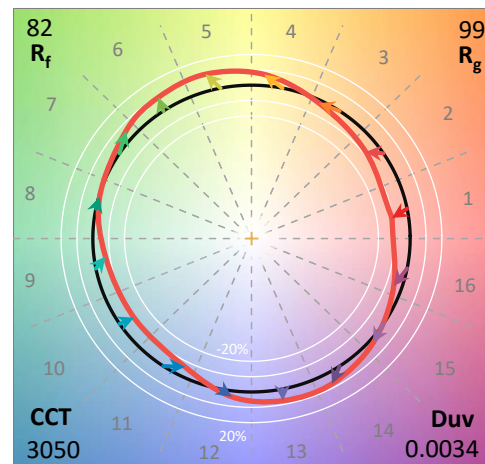
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

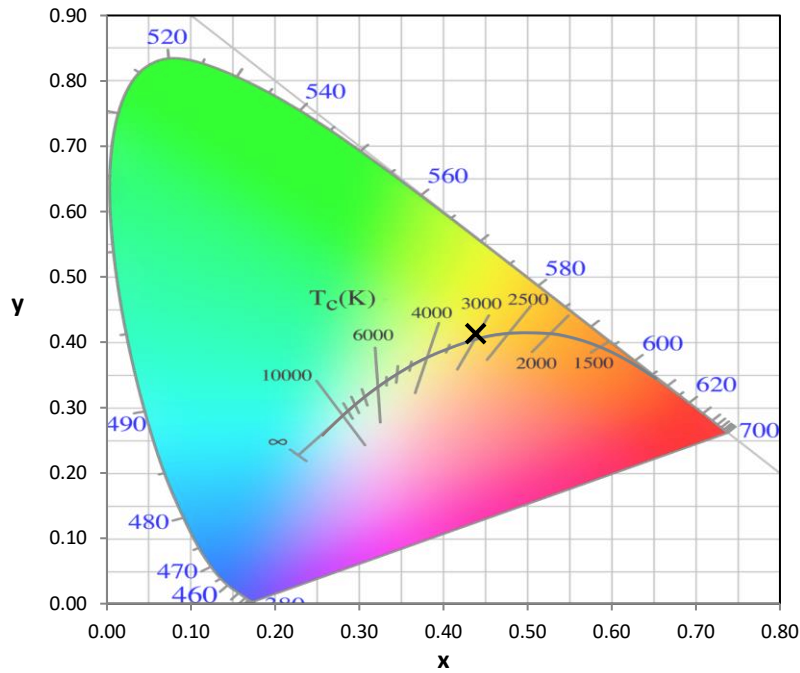
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

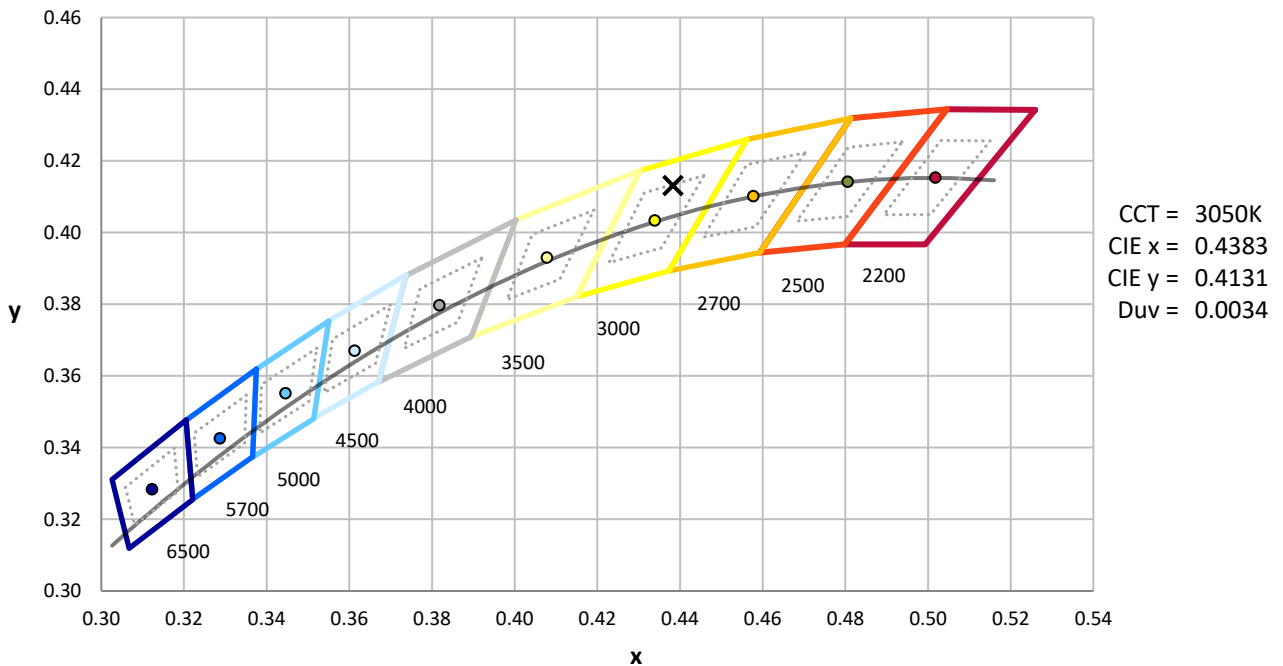
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram

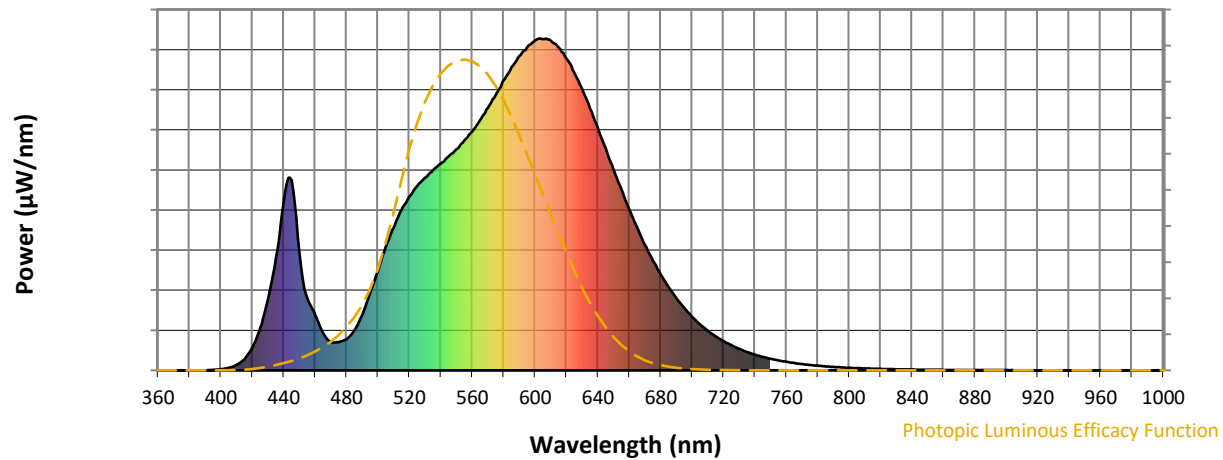


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

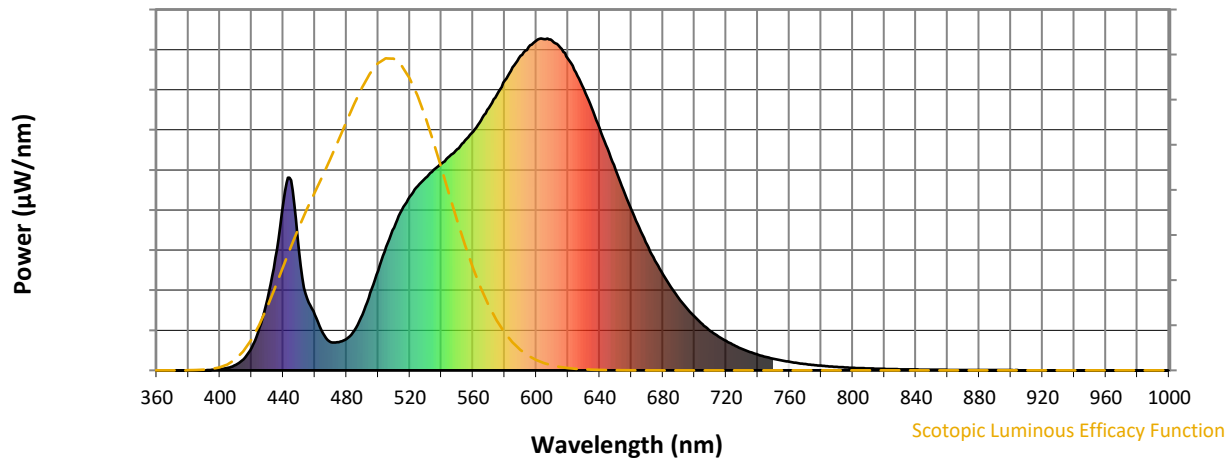


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



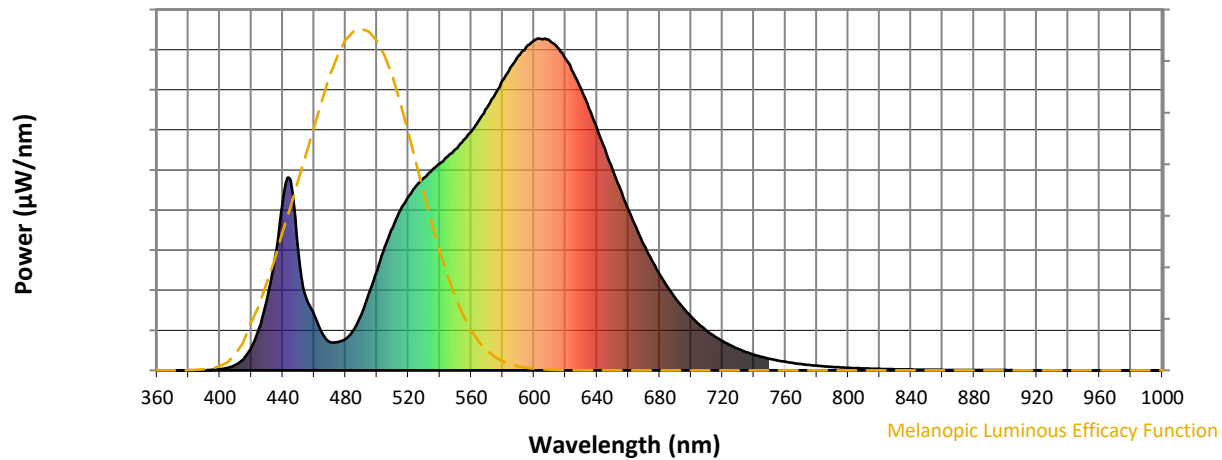
Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

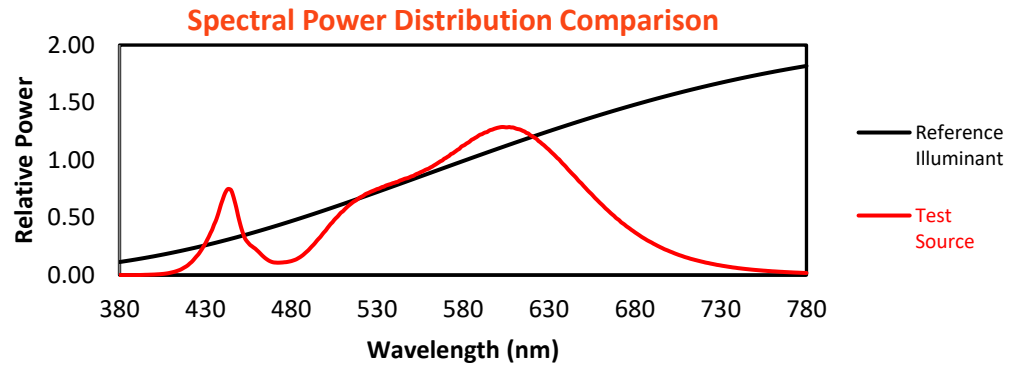
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168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

REPORT NUMBER: SP1-2408-195-9

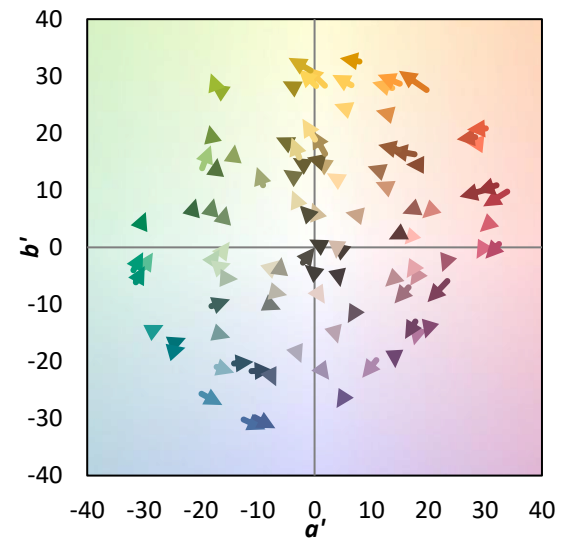
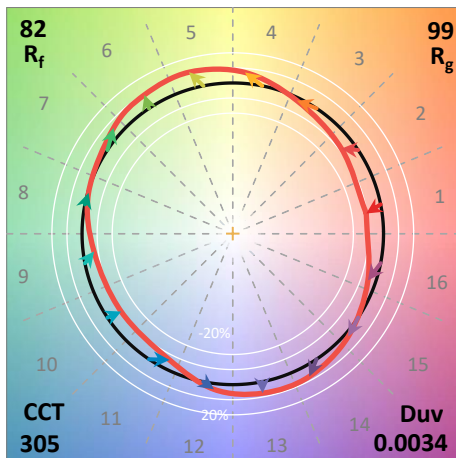
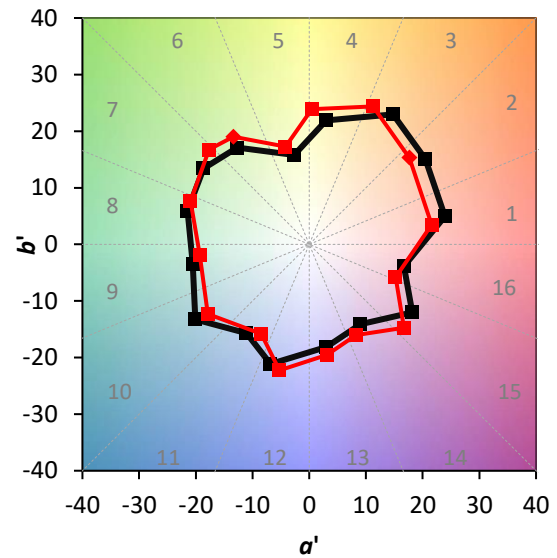
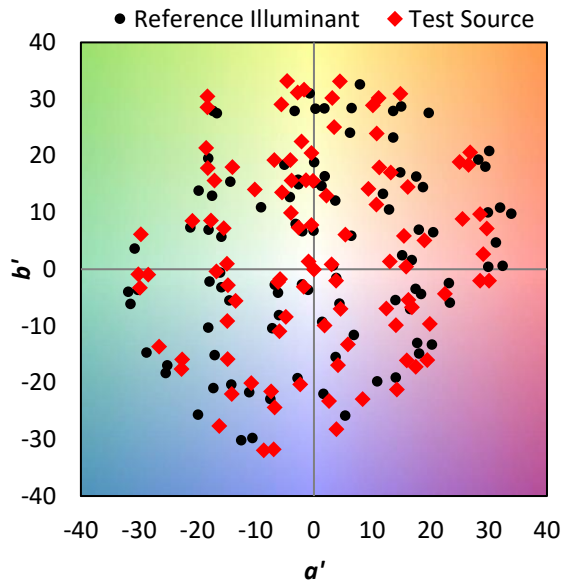
TM-30-18

Summary

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

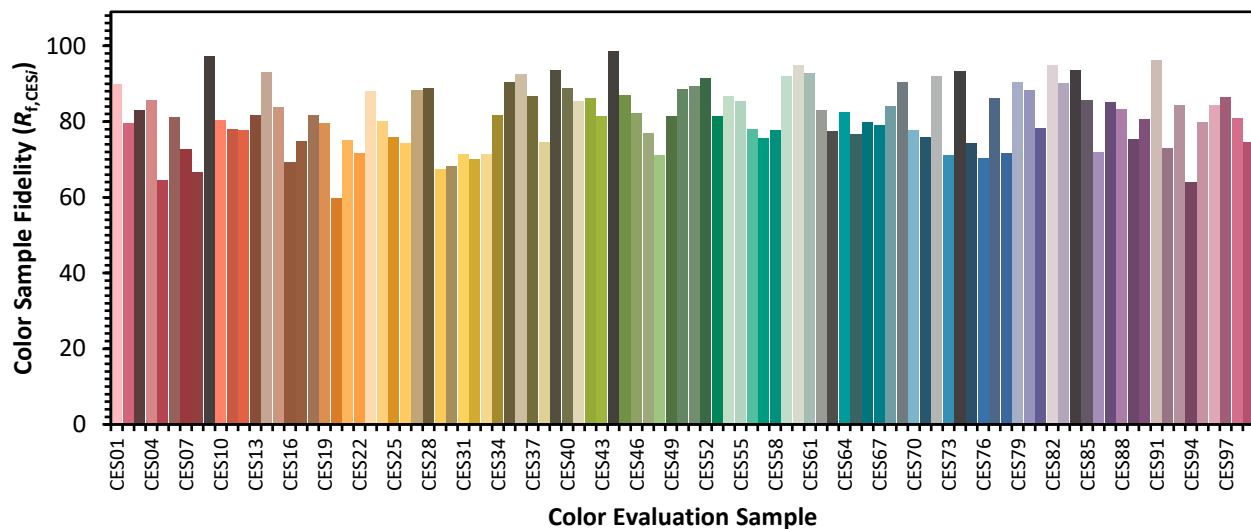


Color Vector Graphics

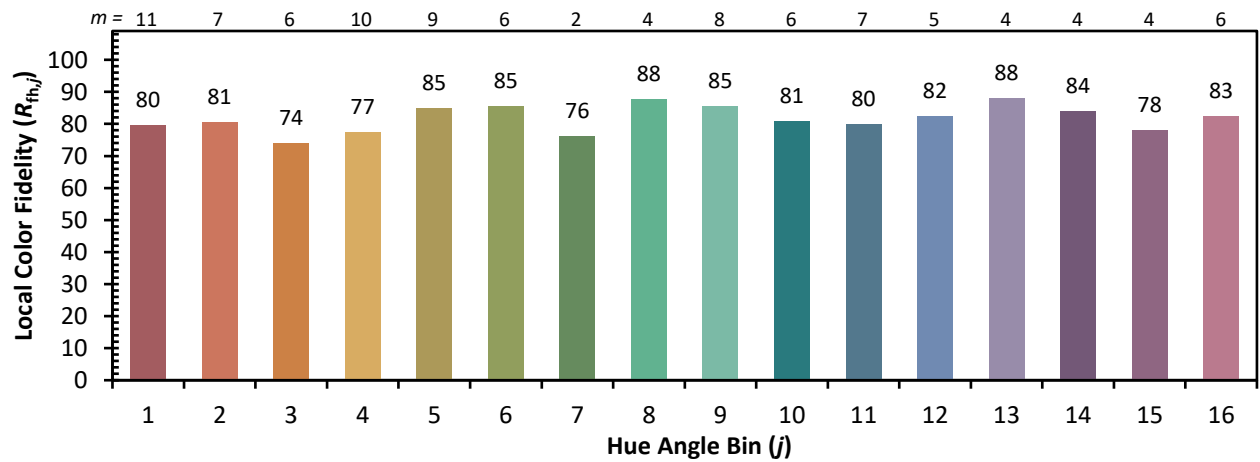
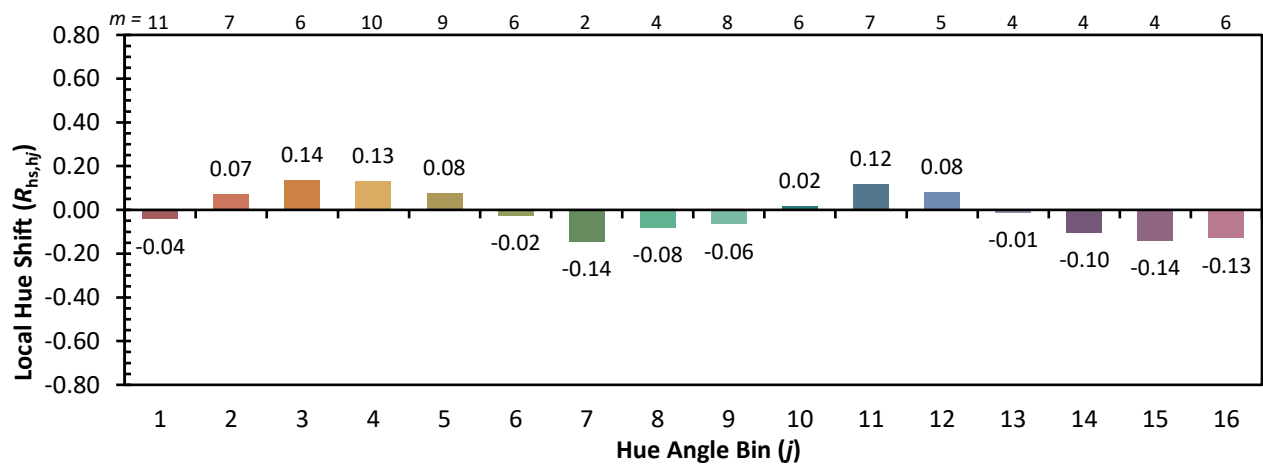
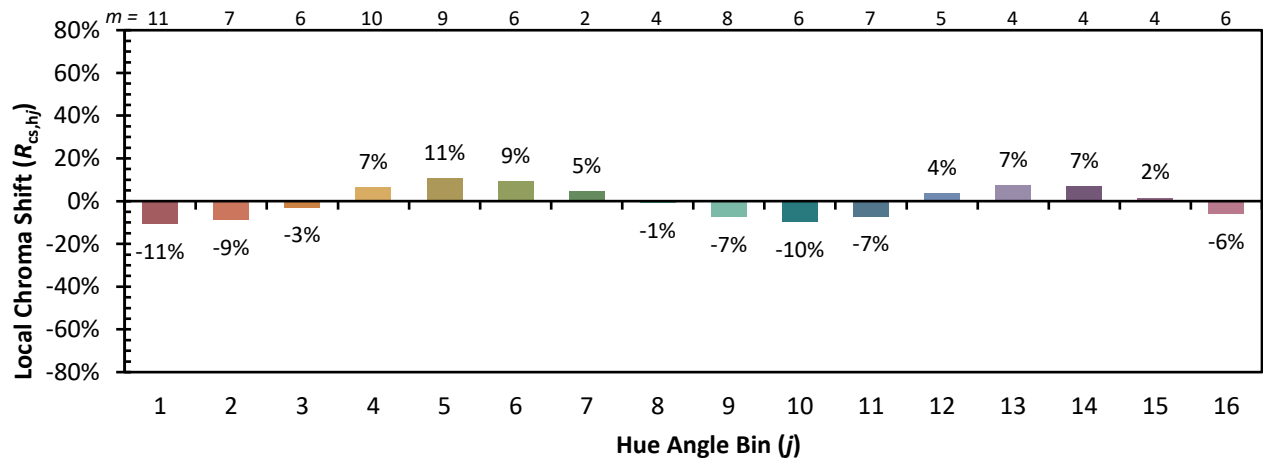


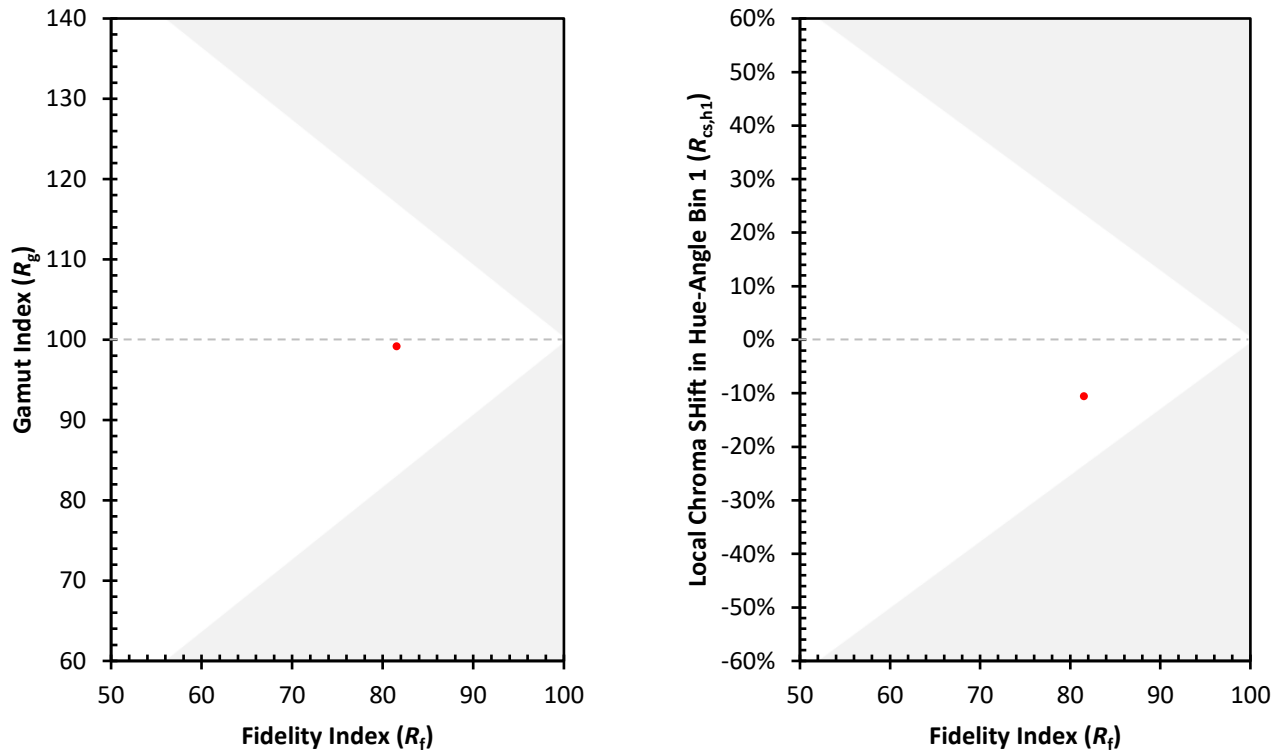
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)