

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: P320819

Luminaire Tested: **GLEON-SA5D-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320819
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-SA5D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 27082 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

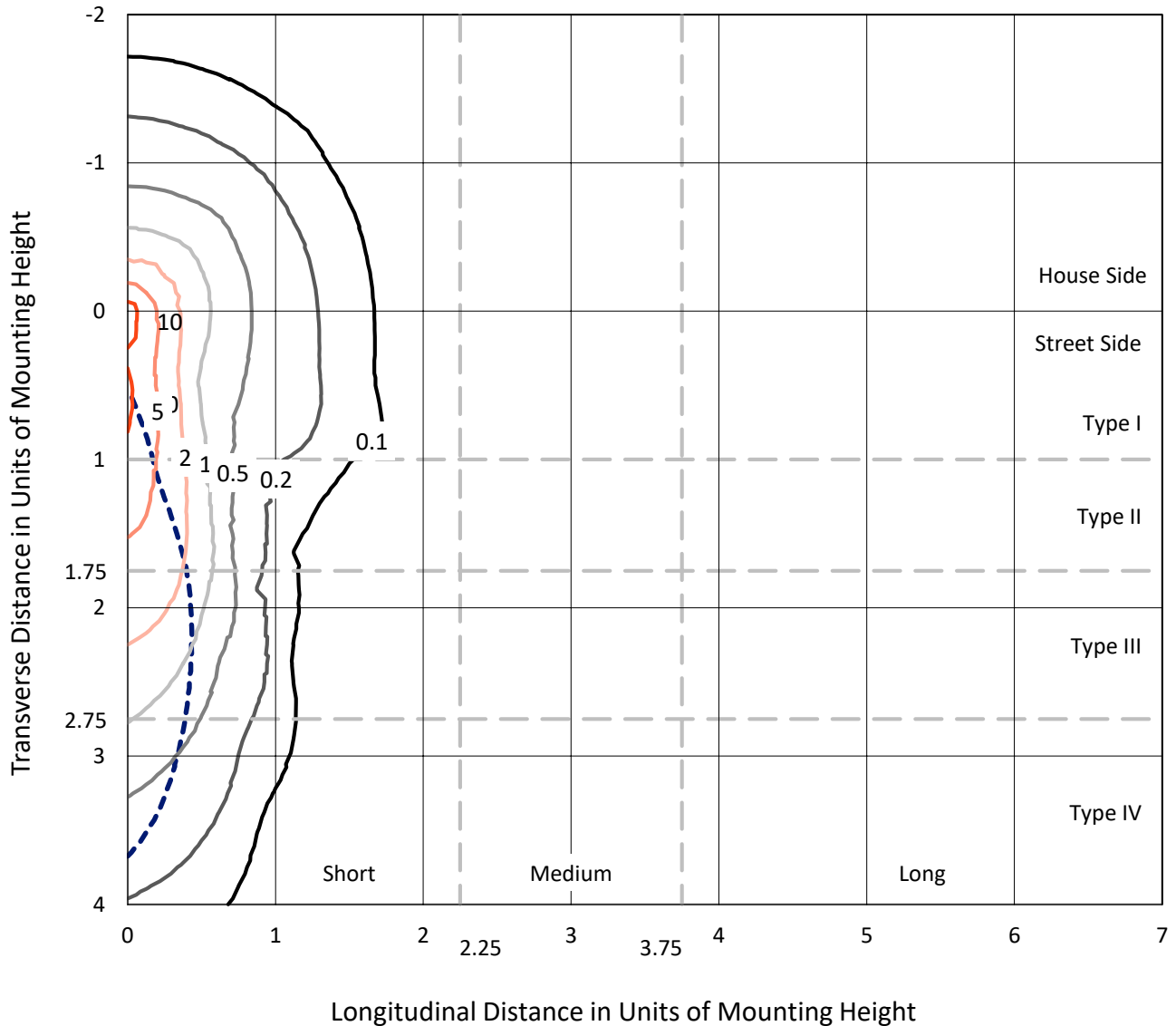
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

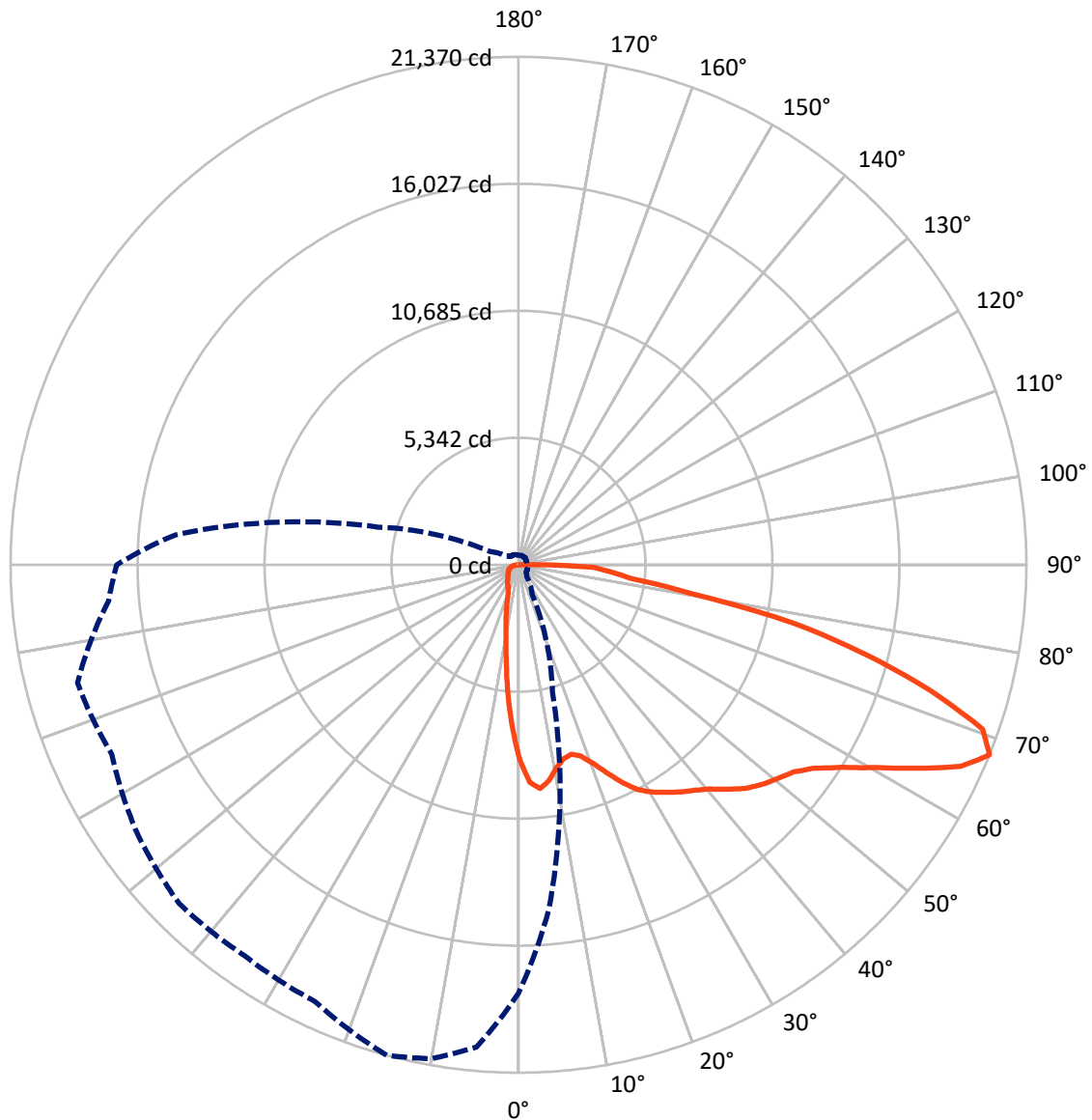
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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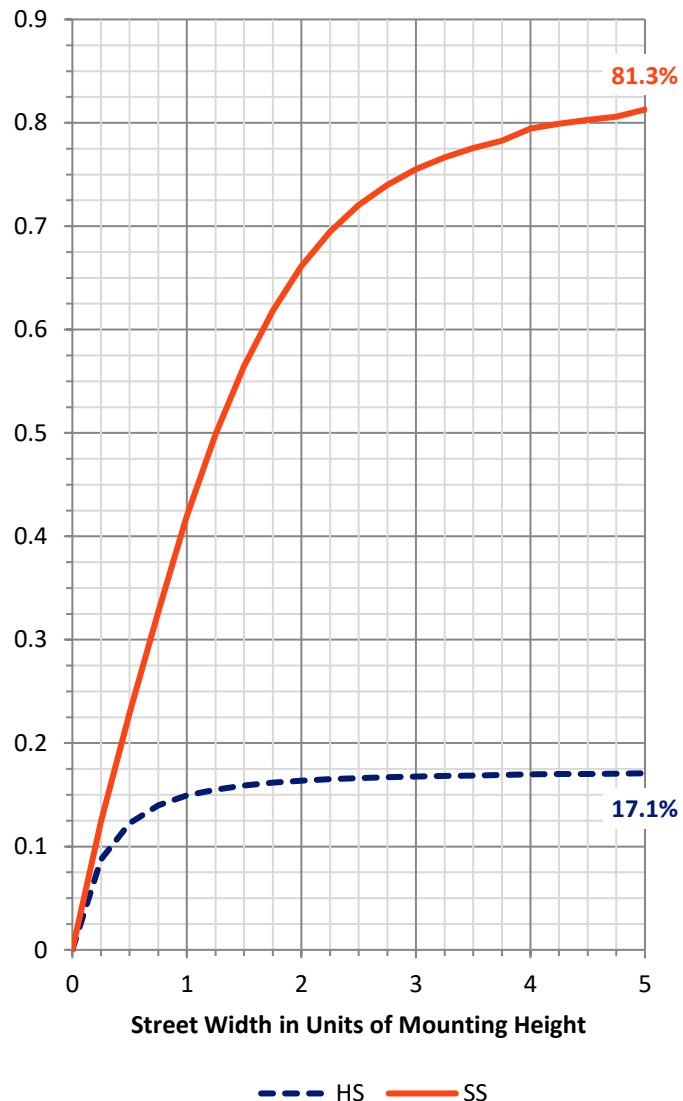
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4681.9	0.0	4681.9
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	22400.1	0.0	22400.1
	% Fixture	82.7	0.0	82.7
Total	Lumens	27082.0	0.0	27082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.8	2.4
10°-20°	1322.8	4.9
20°-30°	1881.3	6.9
30°-40°	2711.0	10.0
40°-50°	3820.6	14.1
50°-60°	5311.3	19.6
60°-70°	6422.9	23.7
70°-80°	3948.0	14.6
80°-90°	1027.3	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°	27082.0	100.0
0°-180°	27082.0	100.0

Coefficient of Utilization

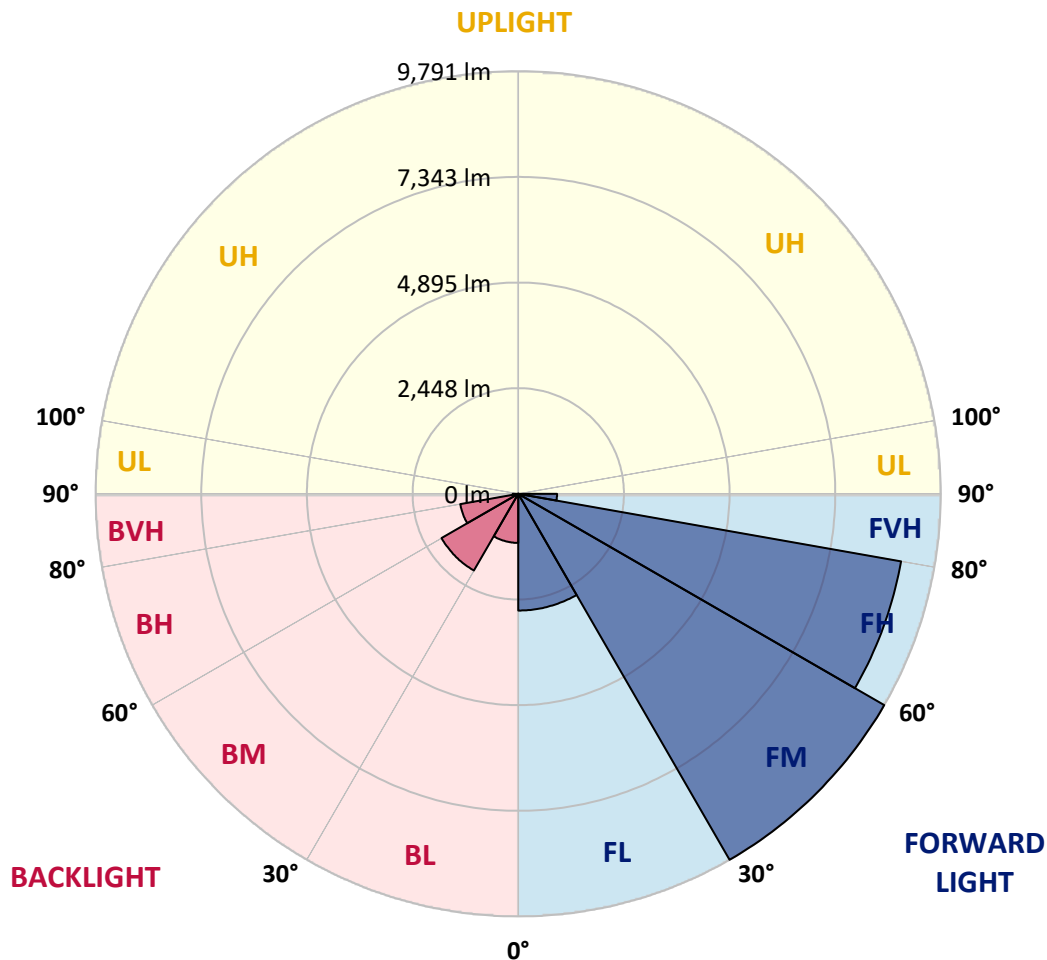


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2704.2	10.0			
FM (30°-60°)	9790.8	36.2			
FH (60°-80°)	9006.5	33.3			G4/12000
FVH (80°-90°)	898.5	3.3			G5
BL (0°-30°)	1136.7	4.2	B3/2500		
BM (30°-60°)	2052.0	7.6	B2/2500		
BH (60°-80°)	1364.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	128.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	8838.7	8760.7	8642.7	8524.7	8437.0	8348.2	8247.5	8146.8	8032.0	7916.1	7847.9
5°	8692.5	8475.9	8194.4	7912.9	7726.7	7540.4	7329.3	7118.1	6909.2	6700.2	6587.6
7.5°	8034.2	7709.3	7343.4	6977.4	6706.7	6434.9	6142.6	5849.1	5589.3	5328.3	5167.0
10°	7386.7	6996.9	6576.8	6155.6	5809.1	5462.6	5169.2	4874.6	4678.7	4482.7	4334.3
12.5°	6922.2	6490.1	6027.8	5564.4	5217.9	4871.4	4685.2	4498.9	4336.5	4174.1	4003.0
15°	6738.1	6249.8	5776.6	5302.3	4987.2	4672.2	4465.3	4257.5	4039.8	3821.1	3611.0
17.5°	6900.5	6328.8	5814.5	5300.2	4887.6	4475.1	4186.0	3895.8	3608.9	3321.9	3078.3
20°	7407.2	6677.5	6005.1	5331.6	4782.6	4233.6	3846.0	3457.3	3089.1	2721.0	2444.9
22.5°	8118.6	7152.8	6274.7	5396.5	4687.3	3977.0	3490.9	3003.6	2568.3	2133.1	1862.4
25°	8982.7	7783.0	6663.4	5542.7	4648.3	3752.9	3155.2	2557.5	2098.4	1638.2	1445.5
27.5°	9893.3	8534.4	7146.3	5757.1	4654.8	3552.6	2872.6	2191.5	1777.9	1364.3	1232.2
30°	10652.3	9393.0	7709.3	6024.5	4679.7	3334.9	2606.2	1877.5	1536.5	1195.4	1109.8
32.5°	11346.4	9991.8	8133.8	6274.7	4707.9	3140.0	2400.5	1659.9	1381.6	1102.3	1031.9
35°	12063.2	10523.5	8430.5	6336.4	4659.2	2980.9	2259.7	1538.6	1282.0	1024.3	964.7
37.5°	12852.5	11098.4	8716.3	6333.1	4576.9	2820.6	2150.4	1479.1	1217.0	953.9	910.6
40°	13732.8	11734.0	9026.0	6318.0	4502.2	2685.3	2069.2	1452.0	1181.3	909.5	872.7
42.5°	14593.6	12340.3	9314.0	6287.7	4441.5	2594.3	1989.1	1383.8	1148.8	912.8	860.8
45°	15240.0	12869.8	9564.1	6257.3	4396.1	2534.8	1926.3	1317.7	1118.5	919.3	853.2
47.5°	15730.5	13401.5	9841.3	6280.1	4391.7	2503.4	1881.9	1260.3	1061.1	860.8	833.7
50°	16354.2	14040.3	10245.2	6450.1	4451.3	2452.5	1829.9	1206.2	1005.9	805.6	842.4
52.5°	17130.5	14952.0	10871.0	6789.0	4575.8	2362.6	1747.6	1132.6	938.8	743.9	801.3
55°	18270.7	16120.3	11671.2	7221.0	4726.3	2230.5	1623.1	1014.6	850.0	684.3	735.2
57.5°	19293.9	17300.5	12438.9	7576.2	4820.5	2063.8	1466.1	868.4	750.4	632.3	661.6
60°	19749.8	17909.0	12798.4	7686.6	4764.2	1841.8	1289.6	736.3	662.7	589.0	583.6
62.5°	19572.2	17522.5	12444.3	7366.1	4489.2	1612.2	1133.7	655.1	599.9	543.6	531.6
65°	19052.4	16307.6	11452.5	6597.3	4024.7	1452.0	1035.1	618.3	556.5	494.8	481.8
67.5°	18028.1	14578.4	10047.0	5515.6	3434.6	1353.5	978.8	604.2	529.5	453.7	438.5
70°	16189.6	12497.3	8428.3	4358.2	2826.0	1292.8	942.0	591.2	500.2	408.2	394.1
72.5°	13297.5	10020.0	6730.5	3440.0	2362.6	1285.2	937.7	590.1	476.4	362.7	349.7
75°	9520.8	7610.8	5137.8	2663.6	1934.9	1206.2	890.0	573.9	443.9	312.9	301.0
77.5°	6406.8	5267.7	3571.0	1873.2	1435.8	998.3	748.2	498.1	380.1	262.0	250.1
80°	4114.5	3645.7	2392.9	1140.2	931.2	722.2	534.9	347.6	277.2	205.7	196.0
82.5°	3018.8	2713.4	1663.1	612.8	517.6	421.2	327.0	232.8	189.5	146.2	141.8
85°	1918.7	2115.7	1224.6	333.5	272.9	212.2	175.4	138.6	109.4	80.1	80.1
87.5°	372.5	515.4	338.9	161.3	118.0	74.7	63.9	52.0	29.2	5.4	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	7778.6	7703.9	7629.2	7544.8	7459.2	7380.2	7300.0	7212.3	7228.6	7161.5	7094.3
5°	6475.0	6355.9	6235.7	6131.7	6027.8	5937.9	5847.0	5765.8	5836.1	5788.5	5740.9
7.5°	5004.6	4857.3	4709.0	4584.5	4459.9	4363.6	4266.1	4199.0	4268.3	4259.6	4251.0
10°	4186.0	4043.1	3899.1	3761.5	3624.0	3507.1	3389.1	3289.5	3272.1	3222.3	3171.4
12.5°	3830.8	3634.9	3437.8	3293.8	3149.8	3010.1	2870.4	2753.5	2700.4	2618.1	2534.8
15°	3401.0	3169.3	2937.6	2774.1	2609.5	2474.1	2337.7	2237.0	2203.4	2139.6	2075.7
17.5°	2834.7	2581.3	2328.0	2162.3	1995.5	1887.3	1777.9	1710.8	1710.8	1692.4	1674.0
20°	2168.8	1942.5	1716.2	1589.5	1462.8	1405.4	1347.0	1318.8	1327.5	1328.6	1328.6
22.5°	1590.6	1452.0	1313.4	1262.5	1210.5	1190.0	1169.4	1157.5	1161.8	1162.9	1164.0
25°	1252.8	1199.7	1145.6	1119.6	1092.5	1079.5	1066.5	1062.2	1071.9	1073.0	1073.0
27.5°	1100.1	1067.6	1034.0	1017.8	1000.5	995.1	989.7	982.1	991.8	991.8	990.7
30°	1023.2	988.6	953.9	933.3	912.8	914.9	916.0	913.9	920.4	924.7	927.9
32.5°	960.4	926.9	893.3	872.7	851.1	847.8	844.6	842.4	856.5	864.1	871.6
35°	904.1	867.3	830.5	811.0	791.5	783.9	776.3	770.9	783.9	793.7	803.4
37.5°	866.2	828.3	789.3	770.9	751.4	741.7	732.0	725.5	730.9	735.2	739.5
40°	835.9	796.9	756.9	735.2	713.5	703.8	694.1	688.6	691.9	693.0	694.1
42.5°	807.7	769.9	732.0	708.1	683.2	671.3	659.4	652.9	655.1	657.2	658.3
45°	787.2	749.3	710.3	682.1	652.9	639.9	626.9	619.3	620.4	620.4	620.4
47.5°	806.7	751.4	695.1	662.7	629.1	613.9	598.8	591.2	589.0	586.9	584.7
50°	878.1	783.9	688.6	647.5	605.3	589.0	571.7	563.0	557.6	555.5	553.3
52.5°	857.6	776.3	694.1	641.0	586.9	567.4	547.9	533.8	528.4	525.1	521.9
55°	785.0	734.1	682.1	618.3	554.4	537.1	518.6	508.9	499.2	497.0	494.8
57.5°	689.7	669.2	648.6	583.6	518.6	502.4	485.1	478.6	469.9	469.9	468.8
60°	577.1	607.4	637.8	563.0	487.2	468.8	450.4	445.0	441.8	440.7	439.6
62.5°	518.6	568.5	617.2	538.1	458.0	438.5	419.0	412.5	411.5	412.5	412.5
65°	468.8	484.0	499.2	462.3	425.5	406.0	385.5	379.0	381.1	384.4	387.6
67.5°	423.4	420.1	416.9	403.9	389.8	373.6	356.2	349.7	350.8	355.1	359.5
70°	380.1	375.7	370.3	360.6	350.8	336.7	322.7	318.3	317.3	322.7	327.0
72.5°	336.7	331.3	324.8	317.3	308.6	296.7	284.8	281.5	282.6	285.9	289.1
75°	289.1	284.8	279.4	272.9	265.3	254.5	243.6	241.5	243.6	246.9	250.1
77.5°	237.1	236.0	233.9	228.5	223.1	211.1	198.1	197.1	200.3	203.6	205.7
80°	185.2	186.2	187.3	183.0	178.7	165.7	151.6	150.5	153.8	157.0	160.3
82.5°	136.4	139.7	141.8	136.4	131.0	115.9	100.7	98.5	109.4	112.6	115.9
85°	79.0	83.4	87.7	83.4	79.0	63.9	48.7	47.6	57.4	62.8	68.2
87.5°	6.5	8.7	10.8	9.7	8.7	4.3	0.0	0.0	1.1	5.4	9.7
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: P320819
 CATALOG NUMBER: GLEON-SA5D-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: P320819

CATALOG NUMBER: GLEON-SA5D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	7052.1	7009.9	6996.9	6983.9	6936.2	6887.5	6937.3	6986.0	7006.6	7027.2	6974.1
5°	5734.4	5726.8	5726.8	5725.7	5682.4	5638.0	5671.6	5704.0	5631.5	5558.9	5551.4
7.5°	4297.5	4344.1	4382.0	4418.8	4404.7	4390.6	4422.0	4453.4	4361.4	4268.3	4222.8
10°	3182.3	3192.0	3233.2	3274.3	3284.0	3292.7	3331.7	3369.6	3298.1	3226.7	3195.3
12.5°	2482.8	2430.8	2436.2	2440.6	2460.1	2478.5	2519.6	2559.7	2530.4	2500.1	2503.4
15°	2010.7	1944.7	1917.6	1889.4	1911.1	1932.7	1962.0	1990.1	1991.2	1991.2	2019.4
17.5°	1641.5	1607.9	1580.8	1552.7	1581.9	1610.1	1613.3	1616.6	1617.7	1618.7	1616.6
20°	1344.8	1361.0	1352.4	1343.7	1354.5	1364.3	1373.0	1380.5	1370.8	1360.0	1332.9
22.5°	1179.1	1193.2	1204.0	1213.8	1232.2	1249.5	1240.9	1231.1	1211.6	1191.0	1170.5
25°	1082.8	1092.5	1103.3	1114.2	1129.3	1143.4	1128.2	1113.1	1099.0	1084.9	1070.9
27.5°	1001.6	1011.3	1021.1	1029.7	1043.8	1056.8	1042.7	1028.6	1016.7	1004.8	994.0
30°	935.5	942.0	949.6	957.2	970.2	982.1	970.2	957.2	948.5	938.8	931.2
32.5°	879.2	885.7	889.0	892.2	904.1	916.0	907.4	898.7	891.1	883.5	878.1
35°	817.5	830.5	832.7	834.8	846.7	858.6	853.2	846.7	838.1	829.4	819.7
37.5°	754.7	769.9	778.5	786.1	798.0	809.9	804.5	799.1	787.2	775.3	757.9
40°	701.6	708.1	724.4	739.5	759.0	777.4	766.6	754.7	736.3	717.9	709.2
42.5°	657.2	656.2	671.3	686.5	715.7	743.9	724.4	704.9	687.6	670.2	668.1
45°	618.3	615.0	622.6	630.2	661.6	691.9	672.4	651.8	642.1	632.3	632.3
47.5°	583.6	581.4	586.9	591.2	610.7	629.1	619.3	609.6	604.2	598.8	599.9
50°	552.2	550.0	555.5	559.8	567.4	573.9	576.0	577.1	573.9	570.6	572.8
52.5°	523.0	523.0	525.1	526.2	536.0	545.7	545.7	544.6	544.6	544.6	546.8
55°	498.1	500.2	500.2	500.2	515.4	529.5	525.1	520.8	521.9	521.9	524.1
57.5°	473.2	476.4	478.6	480.8	495.9	511.1	506.7	502.4	502.4	502.4	503.5
60°	445.0	449.4	453.7	458.0	473.2	488.3	484.0	478.6	479.7	480.8	481.8
62.5°	417.9	422.3	426.6	430.9	446.1	461.3	456.9	451.5	454.8	456.9	456.9
65°	392.0	395.2	399.5	403.9	417.9	432.0	427.7	423.4	427.7	430.9	433.1
67.5°	362.7	364.9	369.2	373.6	387.6	401.7	397.4	392.0	397.4	401.7	406.0
70°	329.2	331.3	336.7	341.1	355.1	369.2	363.8	358.4	363.8	369.2	373.6
72.5°	292.3	294.5	299.9	304.3	320.5	336.7	330.2	323.7	330.2	336.7	338.9
75°	252.3	254.5	260.9	266.4	282.6	298.8	293.4	286.9	292.3	297.8	298.8
77.5°	209.0	212.2	220.9	229.5	242.5	255.5	252.3	249.0	252.3	255.5	255.5
80°	163.5	166.7	177.6	187.3	194.9	202.5	203.6	204.6	205.7	206.8	205.7
82.5°	121.3	125.6	135.3	145.1	145.1	145.1	153.8	161.3	161.3	160.3	159.2
85°	74.7	80.1	88.8	97.4	92.0	86.6	100.7	113.7	113.7	112.6	110.4
87.5°	15.2	20.6	29.2	36.8	31.4	26.0	40.1	54.1	55.2	55.2	53.1
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: P320819
 CATALOG NUMBER: GLEON-SA5D-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: P320819

CATALOG NUMBER: GLEON-SA5D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	6920.0	7004.4	7087.8	7109.5	7142.0	7156.0	7169.0	7275.1	7380.2	7503.6	7627.0
5°	5542.7	5605.5	5668.3	5678.1	5711.6	5728.9	5746.3	5875.1	6002.9	6175.0	6347.2
7.5°	4177.3	4192.5	4207.7	4205.5	4233.6	4271.5	4308.3	4445.9	4582.3	4767.4	4951.5
10°	3163.9	3198.5	3232.1	3263.5	3325.2	3396.7	3467.0	3607.8	3748.6	3931.5	4113.4
12.5°	2506.6	2546.7	2585.7	2620.3	2691.8	2787.1	2881.3	3050.2	3219.1	3437.8	3655.4
15°	2046.4	2043.2	2039.9	2063.8	2126.6	2230.5	2333.4	2512.0	2690.7	2931.1	3170.4
17.5°	1614.4	1598.2	1581.9	1600.3	1658.8	1744.3	1828.8	1980.4	2130.9	2363.7	2596.5
20°	1305.8	1295.0	1284.2	1301.5	1338.3	1374.0	1409.8	1519.1	1627.4	1816.9	2005.3
22.5°	1148.8	1147.7	1145.6	1155.3	1172.6	1191.0	1208.4	1261.4	1313.4	1435.8	1557.0
25°	1056.8	1055.7	1054.6	1059.0	1073.0	1087.1	1101.2	1135.8	1170.5	1228.9	1287.4
27.5°	983.2	981.0	978.8	979.9	983.2	1004.8	1025.4	1041.6	1056.8	1096.8	1135.8
30°	923.6	922.5	921.4	921.4	918.2	925.8	933.3	958.3	982.1	1023.2	1064.4
32.5°	872.7	867.3	861.9	850.0	842.4	853.2	864.1	890.0	916.0	953.9	991.8
35°	808.8	794.8	779.6	773.1	774.2	785.0	795.8	821.8	846.7	887.9	927.9
37.5°	739.5	735.2	729.8	728.7	732.0	742.8	753.6	776.3	798.0	839.1	879.2
40°	700.6	698.4	696.2	694.1	696.2	707.0	717.9	739.5	760.1	800.2	839.1
42.5°	665.9	664.8	663.7	663.7	664.8	676.7	688.6	710.3	730.9	766.6	802.3
45°	632.3	633.4	633.4	635.6	638.8	650.7	661.6	685.4	709.2	743.9	778.5
47.5°	600.9	604.2	606.4	611.8	615.0	628.0	639.9	665.9	691.9	735.2	777.4
50°	573.9	577.1	579.3	583.6	592.3	607.4	622.6	654.0	684.3	756.9	828.3
52.5°	549.0	552.2	555.5	559.8	570.6	587.9	605.3	644.2	682.1	766.6	851.1
55°	526.2	529.5	531.6	538.1	549.0	564.1	578.2	625.8	673.5	735.2	796.9
57.5°	504.6	507.8	510.0	514.3	519.7	536.0	551.1	602.0	652.9	696.2	738.5
60°	481.8	484.0	485.1	485.1	489.4	507.8	526.2	591.2	655.1	647.5	638.8
62.5°	456.9	459.1	460.2	456.9	462.3	481.8	501.3	585.8	670.2	618.3	566.3
65°	434.2	433.1	432.0	428.8	435.3	454.8	473.2	515.4	557.6	537.1	516.5
67.5°	409.3	406.0	402.8	398.5	405.0	422.3	438.5	452.6	466.7	468.8	471.0
70°	377.9	373.6	369.2	368.1	371.4	385.5	399.5	409.3	417.9	422.3	425.5
72.5°	341.1	337.8	334.6	332.4	333.5	345.4	356.2	364.9	373.6	376.8	379.0
75°	299.9	299.9	298.8	292.3	292.3	302.1	310.8	318.3	325.9	330.2	334.6
77.5°	255.5	256.6	256.6	248.0	246.9	256.6	265.3	271.8	277.2	281.5	284.8
80°	204.6	202.5	200.3	194.9	192.7	204.6	215.5	220.9	225.2	226.3	226.3
82.5°	157.0	152.7	147.3	135.3	136.4	149.4	161.3	165.7	170.0	170.0	170.0
85°	107.2	98.5	88.8	79.0	80.1	94.2	107.2	111.5	115.9	118.0	119.1
87.5°	50.9	42.2	32.5	24.9	24.9	36.8	47.6	49.8	52.0	56.3	60.6
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: P320819
 CATALOG NUMBER: GLEON-SA5D-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



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	7721.2	7814.4	7910.7	8007.1	8117.5	8228.0	8356.8	8484.6	8594.0	8703.3	8794.3
5°	6495.5	6643.9	6818.2	6992.5	7214.5	7436.5	7708.3	7978.9	8220.4	8461.9	8742.3
7.5°	5145.3	5338.1	5565.4	5792.8	6079.8	6366.7	6718.6	7070.5	7411.6	7751.6	8182.5
10°	4315.9	4518.4	4742.5	4965.6	5257.9	5549.2	5921.7	6293.1	6676.4	7058.6	7545.8
12.5°	3880.7	4104.8	4301.9	4498.9	4736.0	4972.1	5332.6	5693.2	6143.6	6593.0	7061.8
15°	3416.1	3660.9	3896.9	4132.9	4391.7	4649.4	5000.2	5351.1	5843.7	6336.4	6875.6
17.5°	2854.2	3111.9	3399.9	3686.8	4024.7	4361.4	4810.8	5260.1	5843.7	6426.2	7061.8
20°	2268.4	2531.5	2875.8	3220.2	3640.3	4059.3	4641.8	5224.4	6010.5	6795.5	7606.5
22.5°	1789.8	2021.5	2397.3	2771.9	3257.0	3742.1	4489.2	5235.2	6262.8	7289.2	8383.9
25°	1450.9	1614.4	1983.6	2351.8	2911.6	3471.4	4396.1	5319.7	6629.8	7938.9	9296.7
27.5°	1243.0	1350.2	1694.5	2037.8	2649.5	3260.2	4358.2	5455.0	7095.4	8735.8	10289.6
30°	1139.1	1213.8	1505.1	1795.2	2416.7	3038.3	4312.7	5587.1	7543.7	9499.2	11065.9
32.5°	1052.5	1112.0	1361.0	1609.0	2215.4	2821.7	4225.0	5627.2	7856.6	10086.0	11723.2
35°	978.8	1028.6	1245.2	1461.7	2057.3	2652.8	4077.7	5502.6	8052.6	10602.5	12407.5
37.5°	919.3	958.3	1158.6	1358.9	1920.8	2482.8	3909.9	5337.0	8226.9	11116.8	13177.3
40°	872.7	906.3	1093.6	1280.9	1790.9	2300.9	3765.9	5229.8	8467.3	11704.8	13990.5
42.5°	846.7	890.0	1037.3	1183.5	1667.5	2151.5	3650.0	5148.6	8690.3	12231.0	14701.9
45°	840.2	901.9	1008.1	1114.2	1575.4	2036.7	3547.2	5056.5	8834.3	12612.1	15237.8
47.5°	829.4	880.3	985.3	1090.4	1530.0	1968.5	3491.9	5014.3	8978.3	12941.3	15682.9
50°	835.9	842.4	966.9	1090.4	1523.5	1956.6	3554.7	5152.9	9290.2	13426.4	16191.8
52.5°	824.0	795.8	932.3	1068.7	1522.4	1976.1	3735.6	5495.1	9869.5	14242.8	16742.9
55°	761.2	724.4	867.3	1010.2	1499.6	1988.0	3951.0	5913.0	10646.9	15379.7	17733.6
57.5°	706.0	672.4	793.7	913.9	1430.3	1946.8	4173.0	6398.1	11468.7	16538.3	18850.0
60°	632.3	624.8	711.4	798.0	1323.1	1847.2	4356.0	6863.7	12020.9	17177.1	19279.8
62.5°	571.7	576.0	639.9	703.8	1188.9	1672.9	4416.6	7159.3	12005.8	16852.3	18846.7
65°	525.1	532.7	595.5	658.3	1074.1	1489.9	4217.4	6943.8	11398.3	15851.8	17990.2
67.5°	479.7	488.3	563.0	636.7	972.3	1306.9	3719.3	6130.7	10305.8	14479.9	16901.0
70°	436.4	447.2	528.4	609.6	898.7	1186.7	3077.2	4967.8	8938.3	12907.7	15639.6
72.5°	389.8	400.6	487.2	573.9	852.1	1129.3	2508.8	3887.1	7253.5	10618.7	13377.6
75°	342.2	349.7	443.9	537.1	788.3	1039.5	1968.5	2896.4	5551.4	8206.3	10104.4
77.5°	294.5	304.3	383.3	461.3	669.2	876.0	1483.4	2090.8	4073.4	6054.9	7027.2
80°	235.0	243.6	299.9	355.1	516.5	676.7	1020.0	1363.2	2803.3	4243.4	4791.3
82.5°	179.7	189.5	227.4	264.2	368.1	472.1	618.3	764.4	1862.4	2959.2	3004.7
85°	123.4	126.7	153.8	179.7	227.4	275.0	354.1	433.1	1232.2	2031.3	1692.4
87.5°	61.7	61.7	80.1	98.5	122.4	146.2	187.3	227.4	394.1	560.9	322.7
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: P320819
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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



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CATALOG NUMBER: GLEON-SA5D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	8910.1	8989.2	9069.3	9129.9	9191.6	9280.4	9369.2	9385.5	9402.8	9368.1	9333.5
5°	9024.9	9264.2	9504.6	9726.5	9948.5	10081.7	10214.9	10241.9	10269.0	10185.6	10101.2
7.5°	8599.4	9016.2	9433.1	9815.3	10197.5	10429.3	10662.1	10714.0	10767.1	10630.7	10494.2
10°	8030.9	8543.1	9055.2	9558.7	10062.2	10398.9	10735.7	10802.8	10869.9	10699.9	10530.0
12.5°	7591.3	8138.1	8684.9	9215.5	9747.1	10095.8	10444.4	10527.8	10611.2	10487.7	10363.2
15°	7456.0	7970.3	8484.6	8946.9	9410.4	9695.1	9981.0	10014.6	10049.2	10029.7	10010.2
17.5°	7701.8	8166.3	8631.9	8883.1	9135.3	9249.0	9363.8	9400.6	9438.5	9487.2	9537.1
20°	8297.3	8624.3	8952.4	8941.5	8929.6	8874.4	8818.1	8808.3	8798.6	8938.3	9079.0
22.5°	9186.2	9316.2	9447.2	9142.9	8838.7	8653.5	8467.3	8430.5	8392.6	8540.9	8690.3
25°	10151.0	10127.2	10102.3	9523.0	8942.6	8589.6	8236.6	8195.5	8154.4	8281.0	8408.8
27.5°	11106.0	10950.1	10794.1	10007.0	9219.8	8707.6	8195.5	8154.4	8113.2	8225.8	8338.4
30°	11806.5	11556.4	11306.3	10415.2	9524.1	8915.5	8307.0	8239.9	8171.7	8310.3	8448.9
32.5°	12353.3	12017.7	11682.0	10746.5	9811.0	9152.7	8494.3	8389.3	8284.3	8469.4	8654.6
35°	12899.1	12427.0	11953.8	11042.1	10129.3	9433.1	8735.8	8607.0	8478.1	8732.6	8987.0
37.5°	13585.5	12907.7	12228.8	11374.5	10520.2	9853.2	9185.2	9053.1	8921.0	9244.7	9569.5
40°	14330.5	13426.4	12522.3	11738.3	10954.4	10434.7	9913.9	9788.3	9661.6	10055.7	10449.8
42.5°	14949.8	13909.3	12868.7	12176.8	11483.9	11117.9	10750.8	10749.8	10747.6	11147.1	11546.7
45°	15453.3	14312.1	13169.7	12604.5	12038.3	11847.7	11657.1	11809.8	11962.5	12323.0	12684.7
47.5°	15829.0	14649.9	13469.7	13094.0	12718.2	12746.4	12774.5	13085.3	13396.0	13627.8	13860.6
50°	16073.7	14956.3	13837.8	13722.0	13606.1	13858.4	14111.8	14468.0	14825.3	14983.4	15141.5
52.5°	16430.0	15372.1	14313.2	14443.1	14573.0	15088.4	15603.8	15964.4	16324.9	16383.4	16443.0
55°	17254.0	16136.5	15018.0	15267.1	15517.2	16273.0	17029.8	17311.4	17592.9	17614.5	17636.2
57.5°	18424.4	17207.4	15990.4	16258.9	16527.4	17400.1	18273.9	18577.1	18881.4	18839.1	18795.8
60°	19300.4	18224.1	17146.8	17417.5	17688.2	18539.2	19390.3	19738.9	20088.7	19995.5	19902.4
62.5°	19354.5	18779.6	18203.6	18448.3	18694.1	19527.8	20361.5	20719.9	21078.3	20915.9	20753.5
65°	18493.7	18751.4	19009.1	19090.3	19171.6	19949.0	20727.5	21001.4	21276.5	21194.2	21111.9
67.5°	17308.1	18257.7	19208.4	19044.9	18881.4	19246.3	19611.2	19893.8	20176.4	20129.8	20082.2
70°	16124.6	17392.6	18660.5	17857.1	17052.6	16902.1	16751.6	17055.8	17361.2	17172.8	16983.3
72.5°	14109.6	15460.9	16813.3	15333.1	13853.0	13338.7	12824.3	13210.9	13597.4	13297.5	12996.5
75°	11075.7	12568.8	14063.0	12297.0	10531.0	9844.6	9158.1	9490.5	9822.9	9617.2	9410.4
77.5°	8245.3	9716.8	11188.3	9393.0	7596.7	7086.7	6575.7	6674.2	6773.8	6739.2	6703.4
80°	5592.5	6617.9	7644.4	6449.0	5253.6	5292.6	5332.6	5286.1	5238.4	5307.7	5377.0
82.5°	3568.8	4360.3	5152.9	4518.4	3883.9	4247.7	4611.5	4432.9	4253.1	4319.2	4386.3
85°	2036.7	2810.9	3586.1	3342.5	3097.8	3310.0	3523.3	3246.1	2969.0	3090.2	3212.6
87.5°	537.1	1554.9	2573.7	2336.6	2099.5	1824.5	1549.4	1182.4	815.3	1191.0	1566.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320819
 CATALOG NUMBER: GLEON-SA5D-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: P320819

CATALOG NUMBER: GLEON-SA5D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	9315.1	9296.7	9230.6	9163.5	9063.9	8981.6	8838.7
5°	9984.2	9867.3	9665.9	9463.4	9238.2	8979.4	8692.5
7.5°	10221.4	9947.4	9560.9	9173.2	8824.6	8415.3	8034.2
10°	10120.7	9710.3	9207.9	8704.4	8281.0	7810.0	7386.7
12.5°	9927.9	9491.6	8938.3	8383.9	7902.1	7396.4	6922.2
15°	9662.7	9314.0	8795.4	8276.7	7791.6	7300.0	6738.1
17.5°	9372.5	9206.8	8832.2	8456.4	8036.3	7559.9	6900.5
20°	9138.6	9199.2	9049.8	8900.4	8563.6	8147.9	7407.2
22.5°	8980.5	9271.8	9386.5	9502.4	9299.9	8975.1	8118.6
25°	8891.7	9374.6	9759.0	10144.5	10054.6	9804.5	8982.7
27.5°	8930.7	9523.0	10119.6	10717.3	10800.6	10731.3	9893.3
30°	9047.6	9647.5	10374.0	11101.7	11434.1	11527.2	10652.3
32.5°	9242.5	9830.5	10622.0	11414.6	11917.0	12213.7	11346.4
35°	9537.1	10087.1	10912.2	11737.2	12386.9	12928.3	12063.2
37.5°	10042.7	10515.9	11277.1	12039.3	12881.7	13694.9	12852.5
40°	10783.3	11117.9	11761.1	12405.3	13465.3	14563.3	13732.8
42.5°	11717.8	11889.9	12399.9	12909.9	14074.9	15351.5	14593.6
45°	12730.1	12775.6	13096.1	13417.7	14557.9	15888.6	15240.0
47.5°	13704.6	13548.7	13676.5	13804.3	14928.2	16271.9	15730.5
50°	14707.3	14273.1	14206.0	14138.8	15298.5	16723.4	16354.2
52.5°	15727.3	15011.5	14746.3	14479.9	15740.2	17322.2	17130.5
55°	16725.6	15815.0	15457.6	15100.3	16415.9	18053.0	18270.7
57.5°	17763.9	16732.1	16400.7	16069.4	17408.8	18978.8	19293.9
60°	18881.4	17859.2	17594.0	17327.6	18643.2	19979.3	19749.8
62.5°	19941.4	19129.3	18989.6	18848.9	19891.6	20748.1	19572.2
65°	20649.5	20186.1	20316.0	20447.1	20835.8	20939.7	19052.4
67.5°	20176.4	20270.6	20819.5	21369.6	21102.1	20370.2	18028.1
70°	17547.4	18112.6	19413.0	20714.5	20121.1	18844.6	16189.6
72.5°	13631.0	14266.6	16197.2	18128.8	17582.0	16018.5	13297.5
75°	10127.2	10845.0	12975.9	15106.8	14347.8	11981.9	9520.8
77.5°	7184.2	7664.9	9768.8	11873.7	10636.1	7975.7	6406.8
80°	5229.8	5082.5	6255.2	7427.8	7222.1	5275.3	4114.5
82.5°	4026.8	3667.3	4219.6	4771.8	4741.5	3660.9	3018.8
85°	3068.6	2924.6	3412.9	3901.2	3483.3	2479.5	1918.7
87.5°	1788.7	2011.8	2586.7	3162.8	2373.4	752.5	372.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320819
 CATALOG NUMBER: GLEON-SA5D-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.

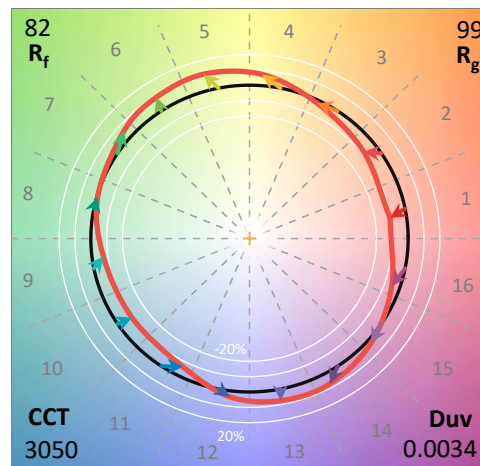
Test Information

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

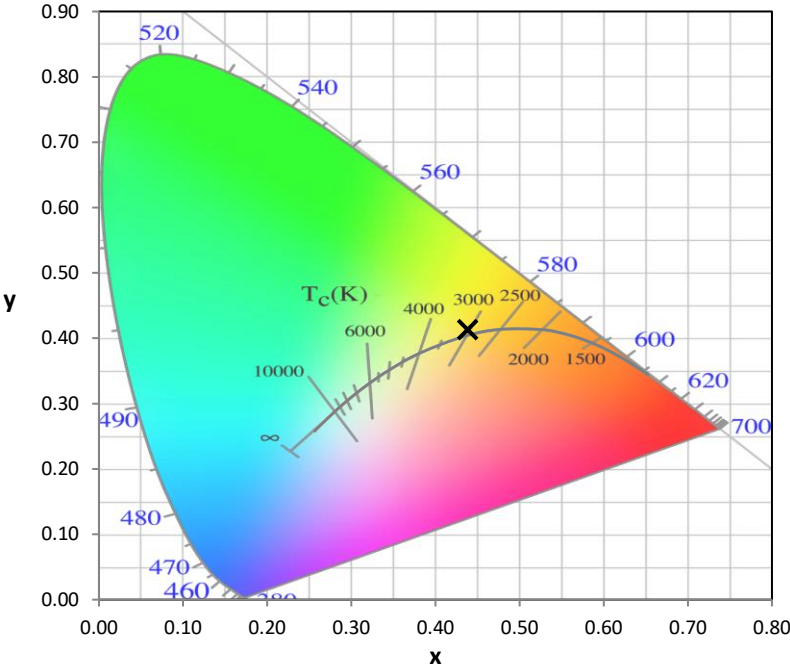
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

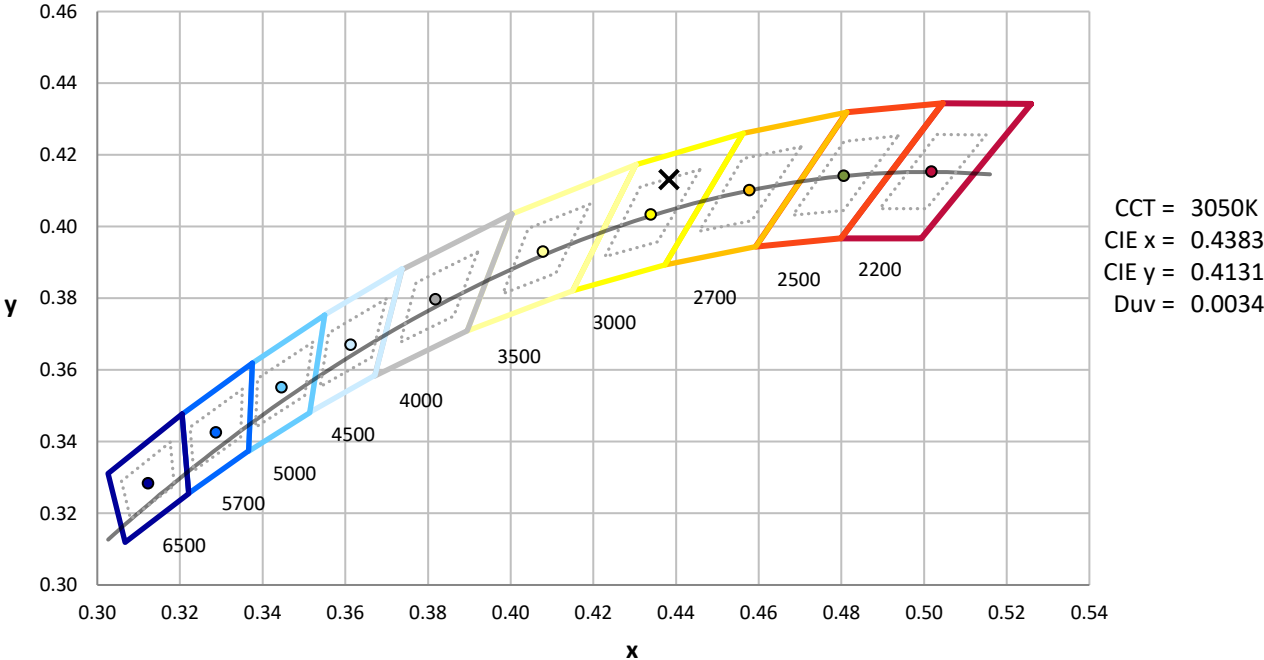
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



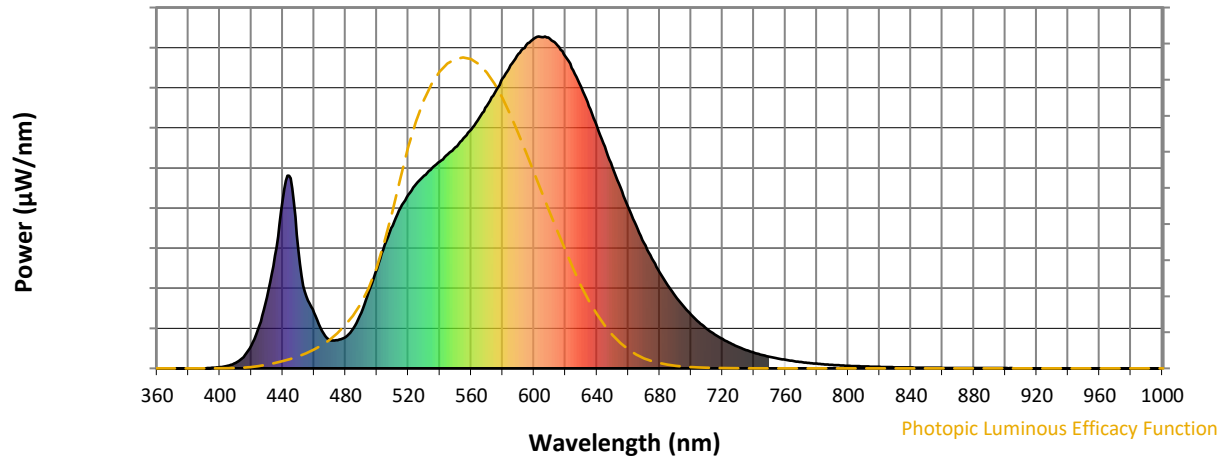
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

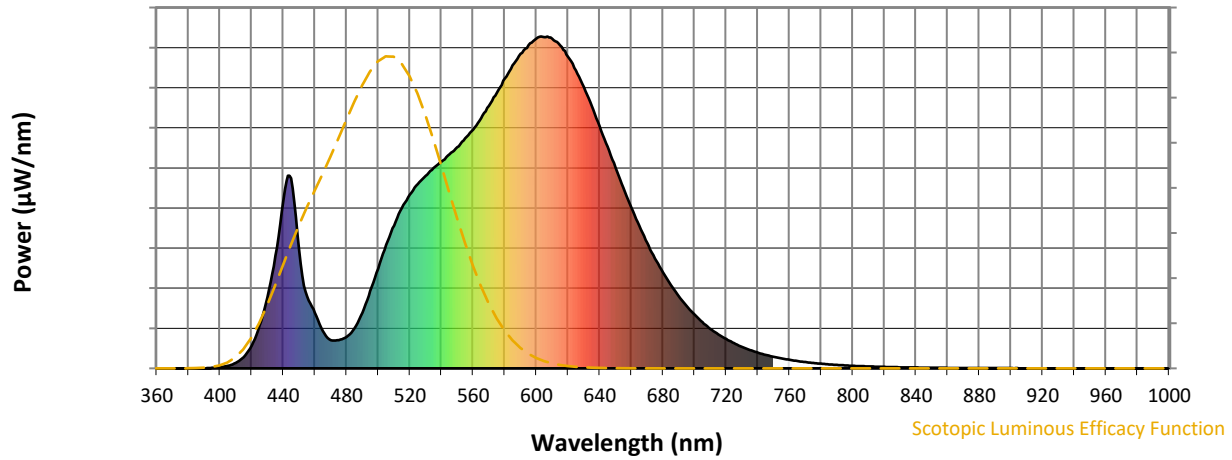


Photopic Lumens: NR

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



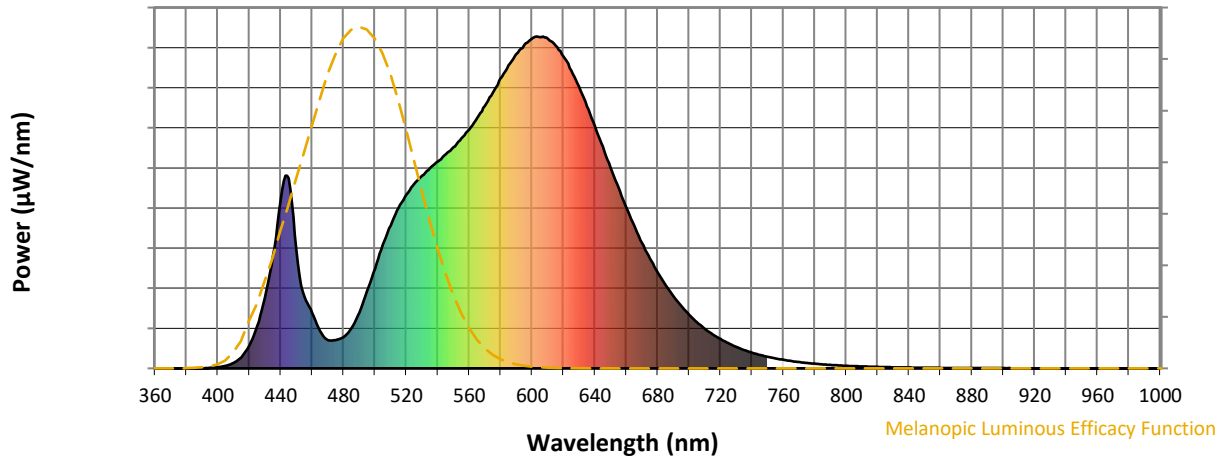
Scotopic Lumens: NR

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



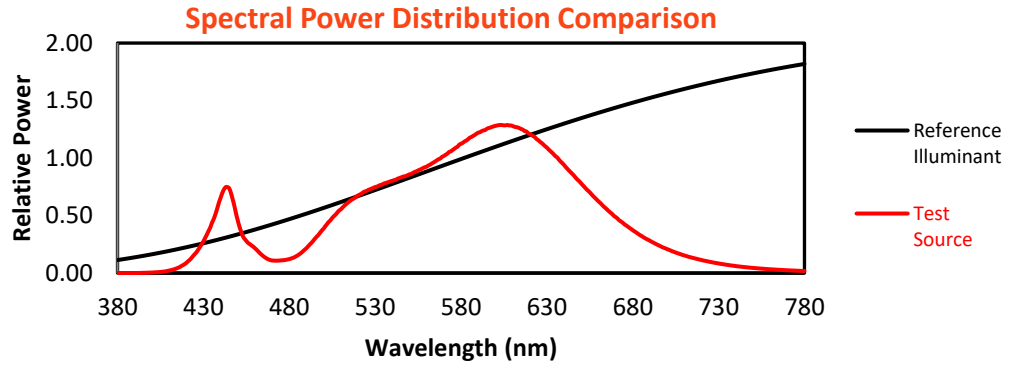
Melanopic Lumens: NR

M/P: 2.32

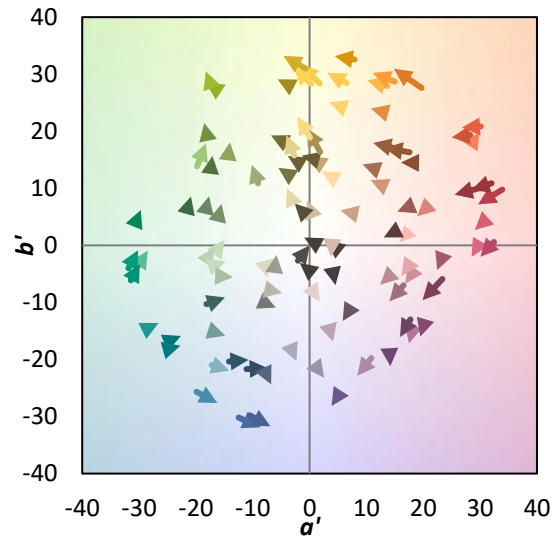
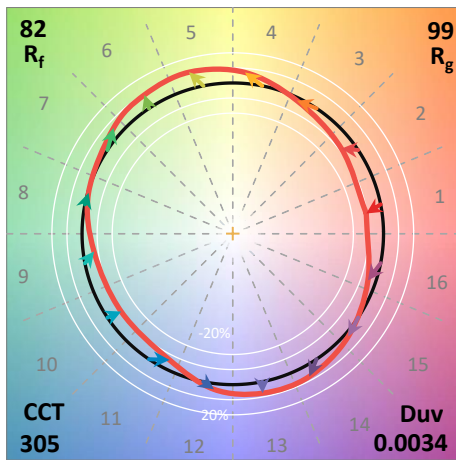
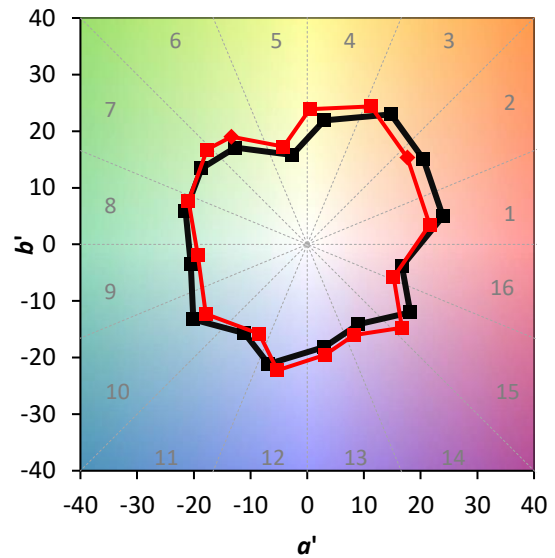
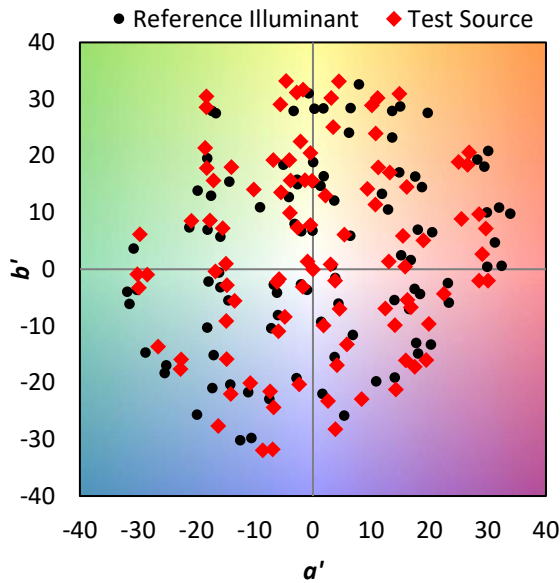
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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

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

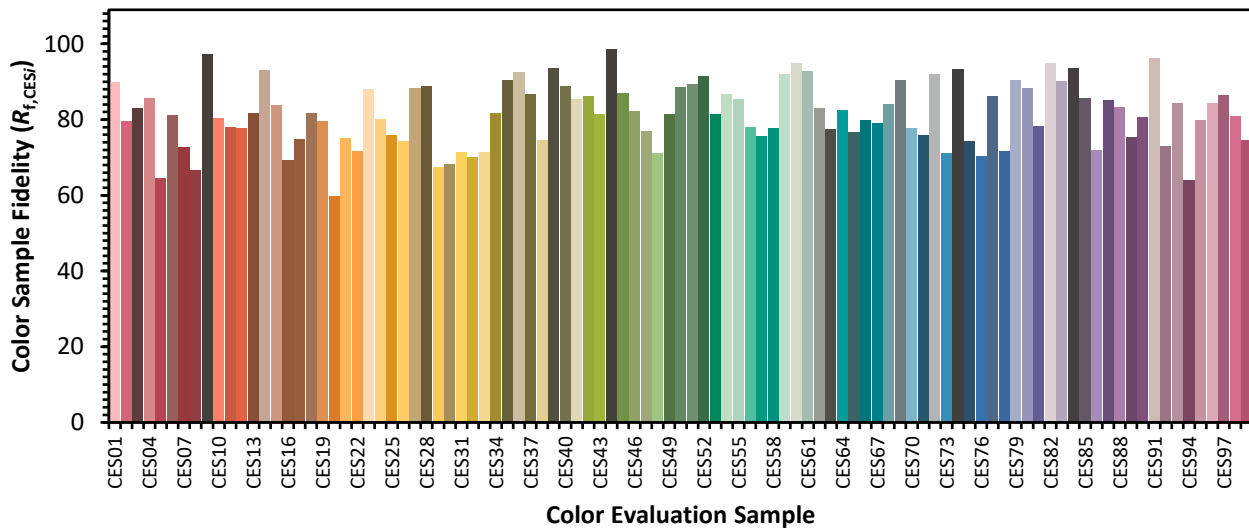


Color Vector Graphics

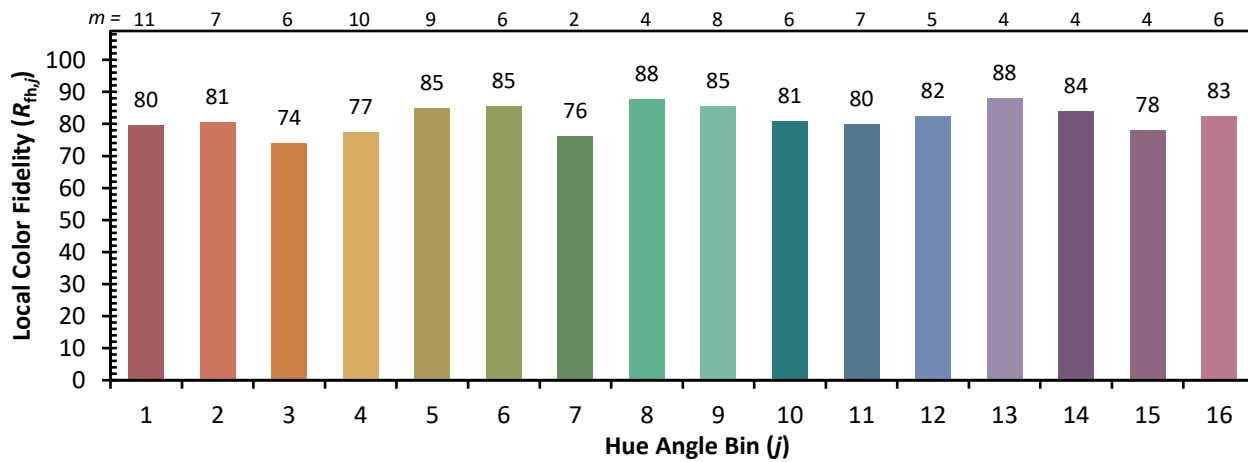
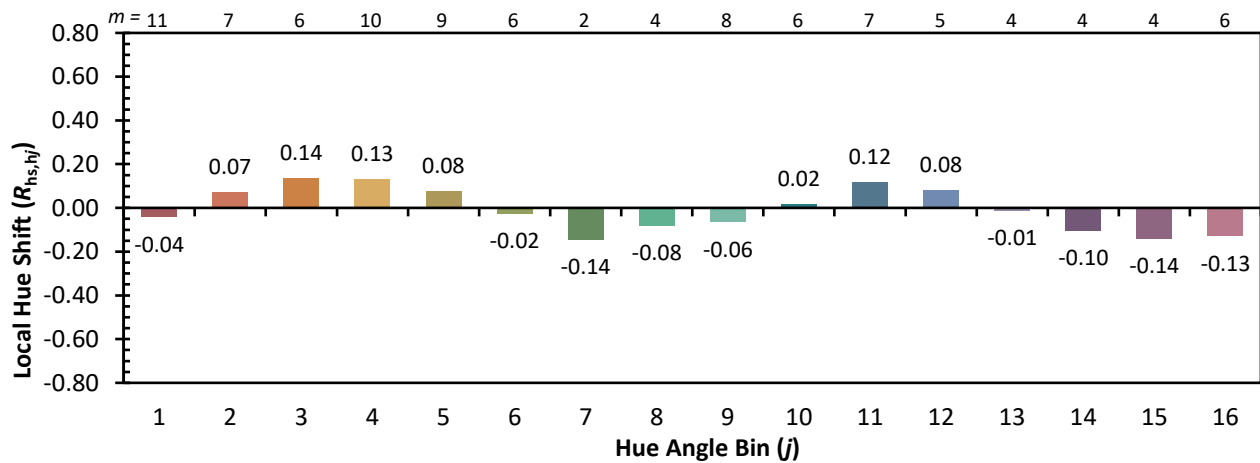
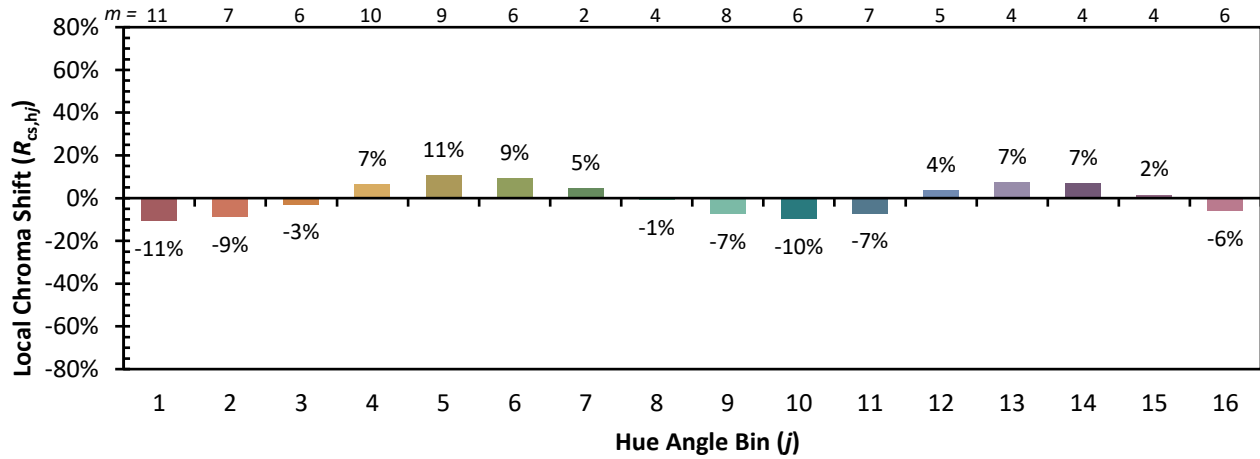


Individual Sample Fidelity Index ($R_{f,i}$)

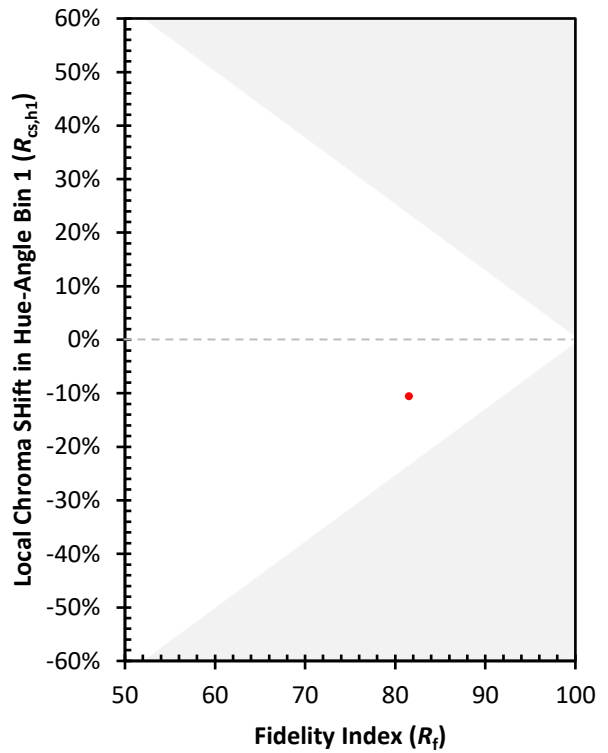
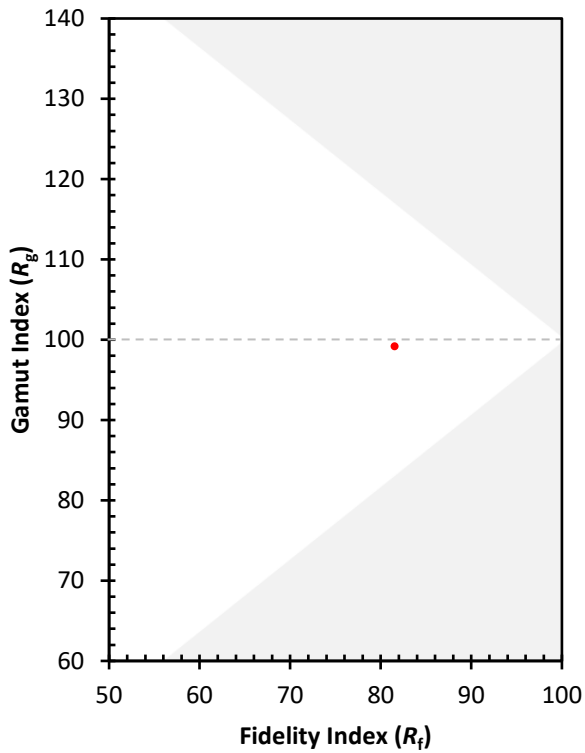
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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