

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: P320469

Luminaire Tested: **GLEON-SA5A-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320469
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-SA5A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16266 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

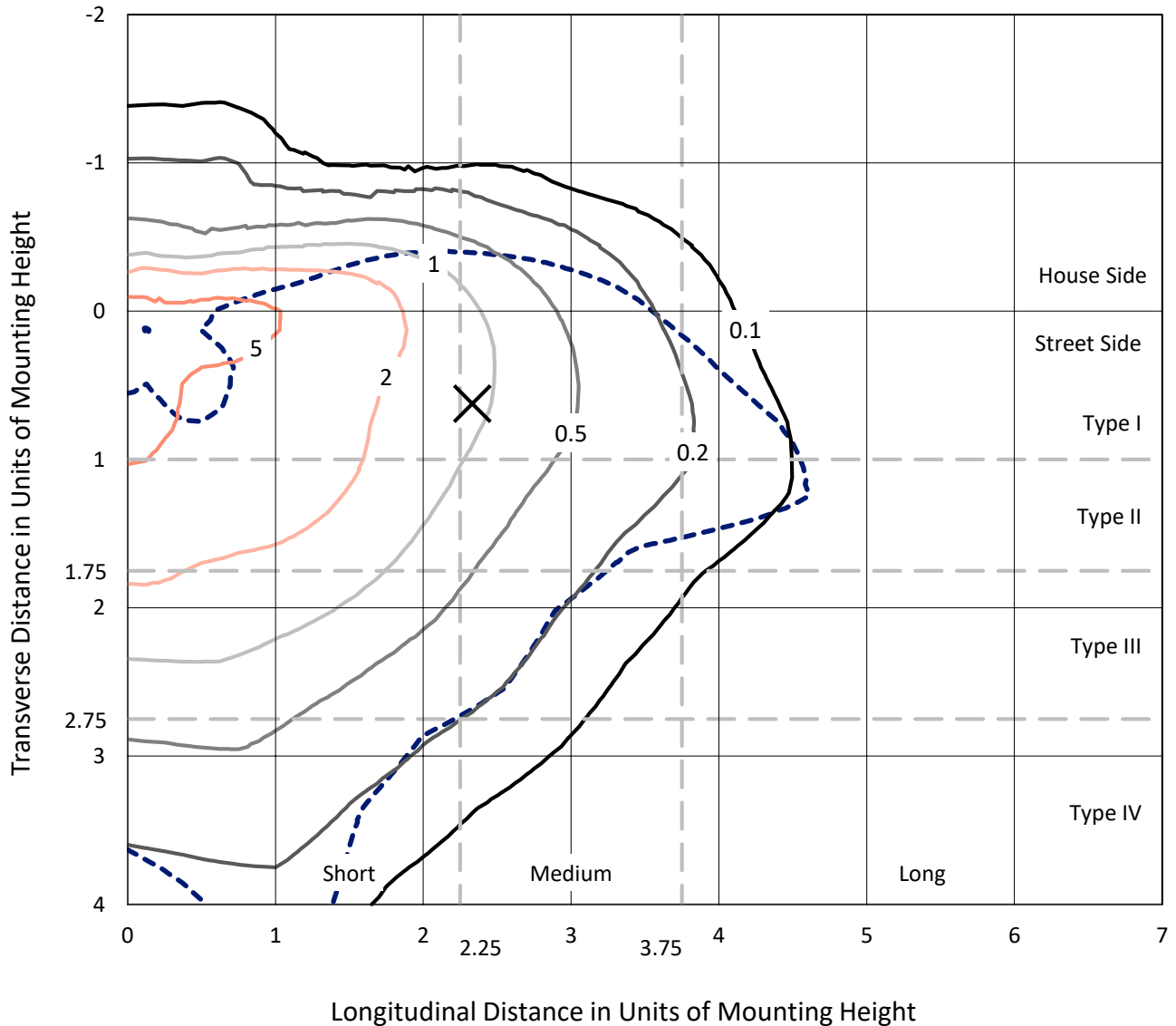
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

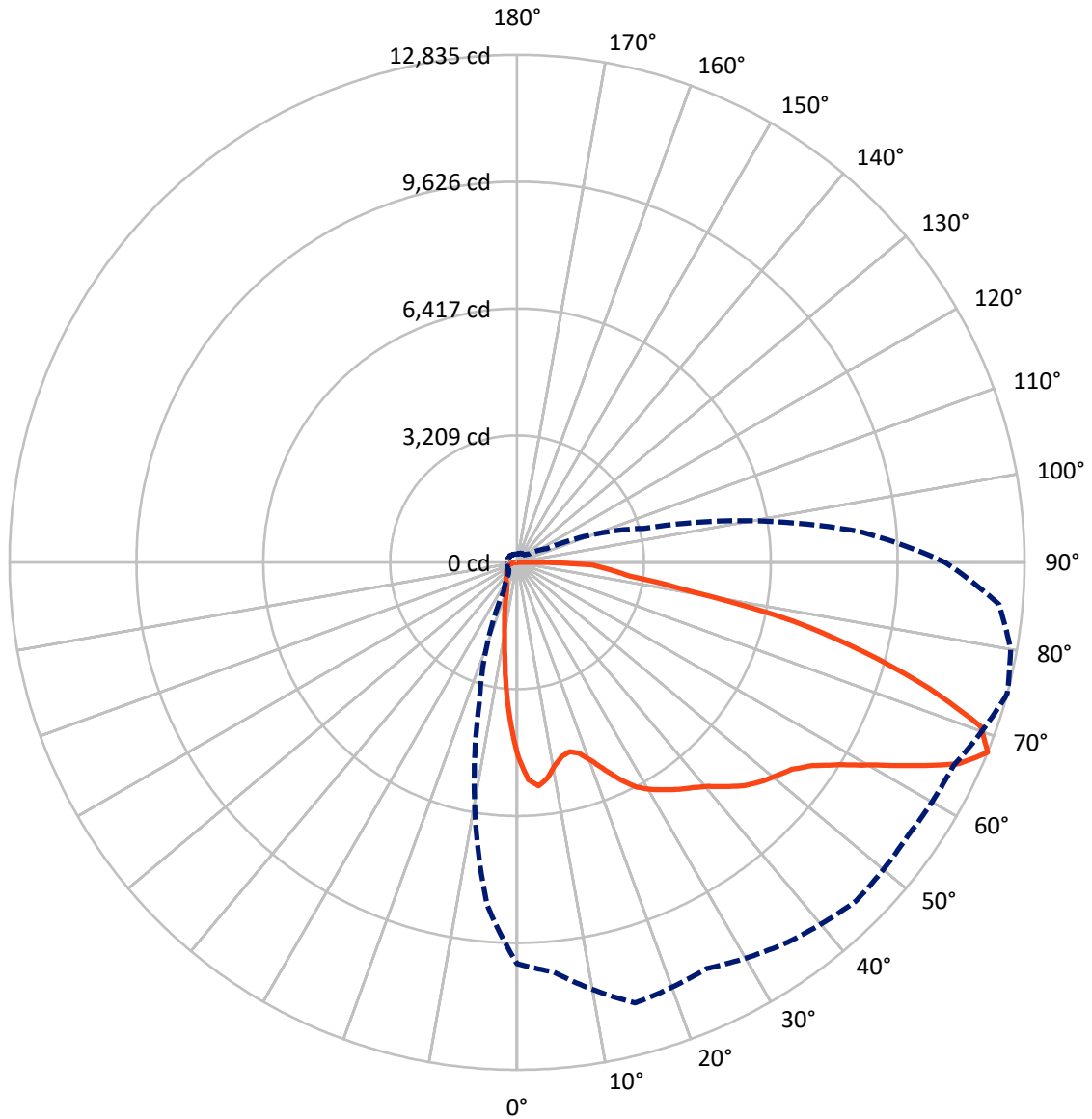
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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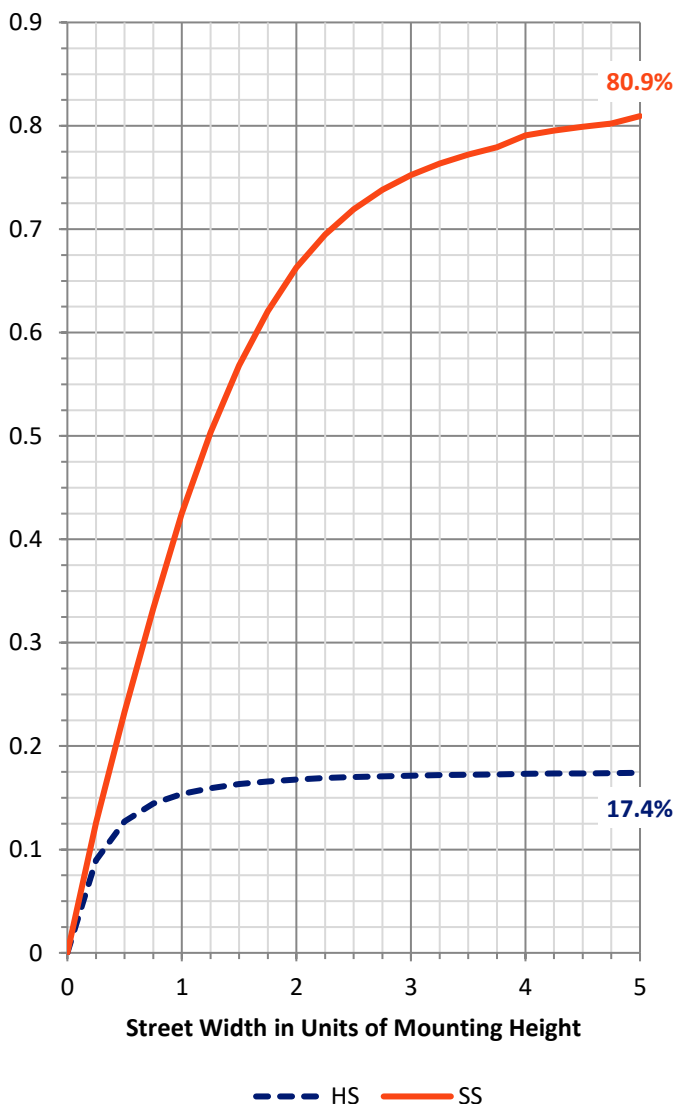
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2864.8	0.0	2864.8
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	13401.2	0.0	13401.2
	% Fixture	82.4	0.0	82.4
Total	Lumens	16266.0	0.0	16266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.5	2.4
10°-20°	794.5	4.9
20°-30°	1130.0	6.9
30°-40°	1628.3	10.0
40°-50°	2294.7	14.1
50°-60°	3190.0	19.6
60°-70°	3857.7	23.7
70°-80°	2371.3	14.6
80°-90°	617.0	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°	16266.0	100.0
0°-180°	16266.0	100.0

Coefficient of Utilization

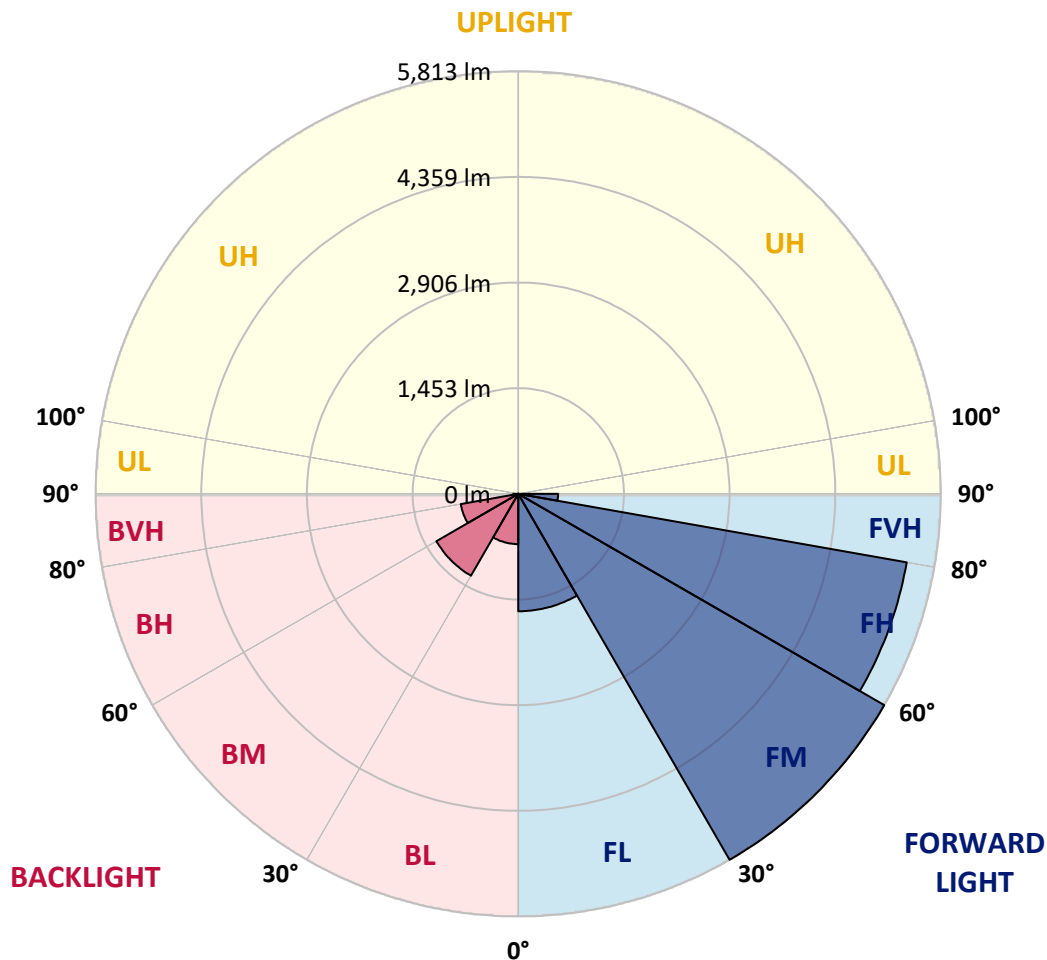


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.0	9.9			
FM (30°-60°)	5812.6	35.7			
FH (60°-80°)	5425.8	33.4			G3/7500
FVH (80°-90°)	547.7	3.4			G4/750
BL (0°-30°)	691.9	4.3	B2/1000		
BM (30°-60°)	1300.4	8.0	B2/2500		
BH (60°-80°)	803.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	69.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	5282.0	5351.6	5399.7	5447.2	5484.2	5520.6	5574.0	5627.3	5637.7	5647.5	5626.7
5°	5250.8	5420.5	5564.9	5708.6	5841.9	5975.2	6055.2	6135.2	6151.5	6167.7	6117.7
7.5°	4914.5	5164.9	5415.3	5665.7	5895.2	6124.8	6264.6	6403.8	6435.7	6466.9	6384.9
10°	4532.1	4823.5	5131.1	5438.7	5741.1	6043.5	6245.8	6448.0	6488.3	6528.7	6426.6
12.5°	4241.5	4559.5	4887.9	5216.3	5535.6	5854.3	6063.7	6273.1	6323.2	6373.2	6299.1
15°	4129.6	4478.2	4787.1	5096.0	5374.3	5652.0	5823.7	5994.7	6015.6	6035.7	6024.0
17.5°	4241.5	4625.8	4905.4	5184.4	5336.0	5486.8	5555.8	5624.1	5646.8	5668.9	5698.8
20°	4568.6	4983.5	5180.5	5376.9	5370.4	5363.3	5330.1	5296.3	5290.4	5284.6	5369.1
22.5°	5035.5	5517.4	5596.1	5674.1	5491.4	5308.6	5197.4	5085.6	5063.5	5040.7	5130.5
25°	5583.7	6096.8	6082.5	6067.6	5719.7	5371.1	5159.1	4947.1	4922.3	4897.6	4974.4
27.5°	6180.1	6670.4	6576.8	6483.1	6010.3	5537.6	5230.0	4922.3	4897.6	4872.9	4940.6
30°	6646.4	7091.2	6941.0	6790.7	6255.5	5720.3	5354.8	4989.3	4949.0	4908.0	4991.3
32.5°	7041.1	7419.6	7218.0	7016.4	6454.5	5892.6	5497.2	5101.8	5038.8	4975.7	5086.9
35°	7452.1	7747.4	7463.8	7179.6	6632.1	6083.8	5665.7	5246.9	5169.5	5092.1	5244.9
37.5°	7914.5	8159.7	7752.6	7344.8	6831.7	6318.6	5918.0	5516.7	5437.4	5358.1	5553.2
40°	8402.9	8607.1	8064.1	7521.1	7050.2	6579.4	6267.2	5954.4	5879.0	5802.9	6039.6
42.5°	8830.2	8979.1	8354.1	7729.2	7313.6	6897.4	6677.6	6457.1	6456.5	6455.2	6695.1
45°	9152.1	9281.5	8596.1	7910.0	7570.5	7230.4	7115.9	7001.5	7093.1	7184.8	7402.1
47.5°	9419.4	9507.2	8799.0	8090.1	7864.4	7638.8	7655.7	7672.6	7859.2	8045.9	8185.7
50°	9725.0	9654.1	8983.0	8311.2	8241.6	8172.0	8324.2	8475.7	8690.4	8904.3	8999.3
52.5°	10056.0	9868.1	9232.7	8596.7	8674.7	8752.8	9062.3	9371.9	9588.5	9805.0	9840.8
55°	10651.1	10363.0	9691.9	9020.1	9170.3	9319.9	9774.5	10228.4	10397.5	10566.6	10579.6
57.5°	11321.6	11066.0	10335.0	9604.1	9765.4	9926.6	10451.5	10975.6	11158.4	11340.5	11315.1
60°	11579.8	11592.1	10945.7	10298.6	10461.2	10623.8	11134.9	11646.1	11856.2	12065.6	12009.6
62.5°	11319.6	11624.6	11279.3	10933.3	11081.0	11227.9	11728.7	12229.5	12444.7	12660.0	12562.4
65°	10805.2	11107.6	11262.4	11417.2	11466.0	11514.7	11982.3	12449.3	12614.4	12779.0	12729.6
67.5°	10151.0	10395.5	10966.5	11536.9	11438.7	11340.5	11559.6	11778.8	11948.5	12118.2	12090.3
70°	9393.4	9684.7	10446.2	11207.8	10725.2	10242.0	10151.6	10061.3	10244.6	10427.4	10314.2
72.5°	8034.8	8474.4	9286.7	10098.3	9209.3	8320.3	8011.4	7702.5	7934.7	8166.8	7986.7
75°	6068.9	6652.2	7549.7	8446.5	7385.8	6325.1	5912.8	5500.5	5700.1	5899.8	5776.2
77.5°	4220.6	4952.3	5836.1	6719.9	5641.6	4562.7	4256.4	3949.5	4009.3	4068.5	4047.7
80°	2877.7	3359.0	3975.5	4591.3	3873.4	3155.4	3179.5	3202.9	3174.9	3146.3	3187.9
82.5°	1804.7	2143.5	2619.5	3094.9	2713.8	2332.7	2551.2	2769.8	2662.5	2554.5	2594.8
85°	1016.5	1223.3	1688.9	2153.9	2007.6	1860.6	1988.7	2116.2	1949.7	1783.2	1856.7
87.5°	193.8	322.6	934.5	1545.8	1403.4	1261.0	1095.8	930.6	710.2	489.7	715.4
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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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°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	5605.8	5594.8	5583.7	5544.1	5503.7	5443.9	5394.5	5308.6	5261.8	5190.9	5120.0
5°	6066.9	5996.7	5926.5	5805.5	5683.9	5548.6	5393.2	5220.8	5090.8	4921.7	4752.6
7.5°	6303.0	6139.1	5974.6	5742.4	5509.6	5300.2	5054.4	4825.4	4630.3	4410.5	4190.7
10°	6324.5	6078.6	5832.2	5530.4	5228.0	4973.7	4690.8	4436.5	4202.4	3950.1	3697.1
12.5°	6224.3	5962.9	5700.8	5368.5	5035.5	4746.8	4442.4	4157.6	3898.1	3620.4	3342.0
15°	6012.3	5803.5	5594.1	5282.6	4971.1	4679.8	4384.5	4047.0	3753.7	3469.5	3184.7
17.5°	5728.1	5629.3	5529.8	5304.7	5079.1	4826.7	4540.6	4144.6	3801.2	3492.3	3183.4
20°	5453.0	5489.4	5525.2	5435.5	5345.7	5143.5	4893.7	4448.9	4010.6	3606.7	3202.2
22.5°	5219.5	5394.5	5568.8	5638.4	5707.3	5585.7	5390.6	4876.2	4296.1	3768.7	3241.2
25°	5050.5	5340.5	5630.6	5862.1	6092.9	6039.0	5888.7	5395.1	4674.6	4002.1	3329.0
27.5°	5008.2	5363.9	5719.7	6078.6	6437.0	6487.0	6445.4	5942.1	5125.9	4292.2	3457.8
30°	5074.5	5434.8	5794.4	6231.5	6667.8	6867.5	6923.4	6397.9	5641.6	4630.3	3618.4
32.5°	5198.1	5551.2	5904.3	6380.4	6855.8	7157.5	7335.7	6814.8	6001.2	4885.3	3768.7
35°	5397.7	5728.1	6058.5	6554.0	7049.6	7439.8	7764.9	7245.3	6320.6	5063.5	3805.7
37.5°	5747.6	6031.8	6316.0	6773.8	7231.0	7737.0	8225.4	7719.4	6665.9	5235.2	3803.8
40°	6276.3	6477.3	6677.6	7064.5	7450.8	8087.5	8746.9	8248.1	7047.6	5421.1	3794.7
42.5°	6935.1	7038.5	7141.3	7447.6	7753.9	8453.6	9220.4	8765.1	7411.8	5594.1	3776.5
45°	7618.6	7645.9	7673.2	7866.4	8058.9	8743.7	9542.9	9153.4	7729.8	5744.4	3758.3
47.5°	8324.9	8231.2	8137.6	8214.3	8291.1	8966.1	9773.2	9448.0	8049.1	5910.8	3771.9
50°	9094.2	8833.4	8572.6	8532.3	8492.0	9188.5	10044.3	9822.6	8432.8	6153.4	3874.0
52.5°	9875.9	9446.0	9016.2	8856.8	8696.9	9453.8	10404.0	10288.9	8980.4	6529.3	4077.6
55°	10592.6	10045.6	9498.7	9284.1	9069.5	9859.7	10842.9	10973.7	9682.1	7009.9	4337.0
57.5°	11289.1	10669.3	10049.5	9850.5	9651.5	10456.0	11399.0	11588.2	10391.0	7471.0	4550.4
60°	11953.7	11340.5	10726.5	10567.2	10407.2	11197.4	11999.9	11862.0	10756.5	7686.9	4616.7
62.5°	12464.9	11977.1	11489.4	11405.5	11320.9	11947.2	12461.6	11755.4	10524.3	7474.2	4424.2
65°	12680.1	12402.4	12124.1	12202.8	12280.8	12514.3	12576.7	11443.2	9794.6	6878.5	3962.5
67.5°	12061.7	12118.2	12174.8	12505.2	12834.9	12674.3	12234.7	10828.0	8756.0	6034.4	3312.8
70°	10200.4	10539.9	10878.7	11660.4	12441.5	12085.1	11318.3	9723.7	7506.1	5062.2	2617.6
72.5°	7805.9	8187.7	8568.7	9728.9	10888.5	10560.1	9621.0	7986.7	6018.2	4042.5	2066.1
75°	5652.0	6083.2	6513.7	7793.6	9073.4	8617.5	7196.5	5718.3	4571.2	3085.8	1599.8
77.5°	4026.2	4314.9	4603.7	5867.9	7131.5	6388.8	4790.3	3848.0	3163.9	2144.8	1125.1
80°	3229.5	3141.1	3052.6	3757.0	4461.3	4337.7	3168.4	2471.3	2189.7	1437.2	684.8
82.5°	2634.5	2418.6	2202.7	2534.3	2866.0	2847.8	2198.8	1813.1	1629.7	998.9	368.1
85°	1929.5	1843.0	1756.5	2049.8	2343.1	2092.8	1489.3	1152.4	1270.7	735.5	200.3
87.5°	941.0	1075.0	1208.3	1554.3	1899.6	1426.2	452.0	223.7	309.6	203.6	96.9
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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	5067.4	5014.0	4953.6	4893.1	4824.1	4754.6	4713.6	4672.0	4627.1	4582.2	4531.5
5°	4640.8	4528.9	4402.1	4275.3	4149.8	4024.2	3956.6	3889.0	3817.4	3745.2	3682.8
7.5°	4028.1	3864.9	3689.3	3513.1	3357.0	3200.3	3103.4	3005.8	2917.4	2828.3	2753.5
10°	3489.0	3280.9	3104.7	2927.8	2810.1	2692.4	2603.3	2514.2	2428.3	2341.8	2259.2
12.5°	3133.9	2925.8	2814.0	2702.1	2604.6	2507.0	2404.3	2300.9	2183.2	2064.8	1978.3
15°	2995.4	2806.2	2682.0	2557.1	2426.4	2295.0	2168.8	2042.7	1903.5	1764.3	1666.1
17.5°	2935.6	2687.8	2514.2	2339.9	2167.5	1995.2	1848.9	1702.6	1550.4	1398.2	1298.7
20°	2872.5	2542.8	2310.0	2076.5	1855.4	1634.3	1468.4	1302.6	1166.7	1030.8	954.7
22.5°	2815.3	2388.7	2096.7	1804.0	1542.6	1281.1	1118.6	955.3	872.1	788.9	758.3
25°	2791.9	2254.0	1895.1	1536.1	1260.3	983.9	868.2	752.4	720.6	688.0	672.4
27.5°	2795.8	2133.7	1725.3	1316.3	1067.8	819.4	740.1	660.7	641.2	621.1	611.3
30°	2810.7	2003.0	1565.3	1127.7	922.8	718.0	666.6	614.6	593.8	572.9	560.6
32.5°	2827.6	1886.0	1441.8	997.0	829.8	662.0	619.8	576.8	556.7	536.5	524.2
35°	2798.4	1790.4	1357.2	924.1	770.0	615.2	579.4	543.0	520.9	498.8	487.1
37.5°	2748.9	1694.1	1291.6	888.4	731.0	572.9	546.9	520.3	497.5	474.1	463.0
40°	2704.1	1612.8	1242.8	872.1	709.5	546.3	524.2	502.1	478.6	454.6	441.6
42.5°	2667.7	1558.2	1194.7	831.1	690.0	548.2	517.0	485.1	462.4	439.6	425.3
45°	2640.3	1522.4	1156.9	791.5	671.8	552.1	512.5	472.8	450.0	426.6	409.7
47.5°	2637.7	1503.6	1130.3	757.0	637.3	517.0	500.8	484.5	451.3	417.5	398.0
50°	2673.5	1473.0	1099.1	724.5	604.2	483.8	506.0	527.4	470.8	413.6	388.9
52.5°	2748.3	1419.0	1049.6	680.2	563.8	446.8	481.2	515.1	466.3	416.9	385.0
55°	2838.7	1339.7	974.8	609.4	510.5	411.0	441.6	471.5	440.9	409.7	371.3
57.5°	2895.3	1239.5	880.5	521.6	450.7	379.8	397.4	414.3	401.9	389.5	350.5
60°	2861.5	1106.2	774.5	442.2	398.0	353.8	350.5	346.6	364.8	383.0	338.2
62.5°	2696.3	968.3	680.9	393.4	360.3	326.5	319.3	311.5	341.4	370.7	323.2
65°	2417.3	872.1	621.7	371.3	334.3	297.2	289.4	281.6	290.7	299.8	277.7
67.5°	2062.8	812.9	587.9	362.9	318.0	272.5	263.4	254.3	252.3	250.4	242.6
70°	1697.4	776.5	565.8	355.1	300.5	245.2	236.7	228.3	225.7	222.4	216.6
72.5°	1419.0	771.9	563.2	354.4	286.1	217.9	210.1	202.3	199.0	195.1	190.5
75°	1162.1	724.5	534.6	344.7	266.6	187.9	180.8	173.6	171.0	167.8	163.9
77.5°	862.3	599.6	449.4	299.2	228.3	157.4	150.2	142.4	141.8	140.5	137.2
80°	559.3	433.8	321.3	208.8	166.5	123.6	117.7	111.2	111.9	112.5	109.9
82.5°	310.9	253.0	196.4	139.8	113.8	87.8	85.2	81.9	83.9	85.2	81.9
85°	163.9	127.5	105.4	83.2	65.7	48.1	48.1	47.5	50.1	52.7	50.1
87.5°	70.9	44.9	38.4	31.2	17.6	3.3	3.9	3.9	5.2	6.5	5.9
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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4480.1	4432.6	4384.5	4331.8	4341.6	4301.3	4261.0	4235.6	4210.2	4202.4	4194.6
5°	3620.4	3566.4	3511.8	3463.0	3505.3	3476.7	3448.0	3444.1	3439.6	3439.6	3438.9
7.5°	2678.7	2620.8	2562.3	2522.0	2563.6	2558.4	2553.2	2581.2	2609.1	2631.9	2654.0
10°	2176.7	2106.4	2035.5	1975.7	1965.3	1935.4	1904.8	1911.3	1917.2	1941.9	1966.6
12.5°	1891.8	1807.9	1724.0	1653.8	1621.9	1572.5	1522.4	1491.2	1460.0	1463.2	1465.8
15°	1567.3	1486.0	1404.1	1343.6	1323.4	1285.1	1246.7	1207.7	1168.0	1151.7	1134.8
17.5°	1198.6	1133.5	1067.8	1027.5	1027.5	1016.5	1005.4	985.9	965.7	949.5	932.6
20°	878.6	844.1	809.0	792.1	797.3	798.0	798.0	807.7	817.5	812.3	807.1
22.5°	727.1	714.7	702.4	695.2	697.8	698.5	699.1	708.2	716.7	723.2	729.0
25°	656.2	648.4	640.6	638.0	643.8	644.5	644.5	650.3	656.2	662.7	669.2
27.5°	600.9	597.7	594.4	589.8	595.7	595.7	595.1	601.6	607.4	613.3	618.5
30°	548.2	549.5	550.2	548.9	552.8	555.4	557.3	561.9	565.8	570.3	574.9
32.5°	511.2	509.2	507.3	506.0	514.4	519.0	523.5	528.1	532.0	533.9	535.9
35°	475.4	470.8	466.3	463.0	470.8	476.7	482.5	491.0	498.8	500.1	501.4
37.5°	451.3	445.5	439.6	435.7	439.0	441.6	444.2	453.3	462.4	467.6	472.1
40°	428.6	422.7	416.9	413.6	415.6	416.2	416.9	421.4	425.3	435.1	444.2
42.5°	410.4	403.2	396.1	392.1	393.4	394.8	395.4	394.8	394.1	403.2	412.3
45°	392.1	384.3	376.5	372.0	372.6	372.6	372.6	371.3	369.4	373.9	378.5
47.5°	377.8	368.7	359.6	355.1	353.8	352.5	351.2	350.5	349.2	352.5	355.1
50°	363.5	353.8	343.4	338.2	334.9	333.6	332.3	331.7	330.4	333.6	336.2
52.5°	352.5	340.8	329.1	320.6	317.4	315.4	313.5	314.1	314.1	315.4	316.1
55°	333.0	322.6	311.5	305.7	299.8	298.5	297.2	299.2	300.5	300.5	300.5
57.5°	311.5	301.8	291.3	287.4	282.2	282.2	281.6	284.2	286.1	287.4	288.7
60°	292.6	281.6	270.5	267.3	265.3	264.7	264.0	267.3	269.9	272.5	275.1
62.5°	275.1	263.4	251.7	247.8	247.1	247.8	247.8	251.0	253.6	256.2	258.8
65°	255.6	243.9	231.5	227.6	228.9	230.9	232.8	235.4	237.4	240.0	242.6
67.5°	234.1	224.4	214.0	210.1	210.7	213.3	215.9	217.9	219.2	221.8	224.4
70°	210.7	202.3	193.8	191.2	190.5	193.8	196.4	197.7	199.0	202.3	204.9
72.5°	185.3	178.2	171.0	169.1	169.7	171.7	173.6	175.6	176.9	180.1	182.7
75°	159.3	152.8	146.3	145.0	146.3	148.3	150.2	151.5	152.8	156.7	160.0
77.5°	134.0	126.8	119.0	118.4	120.3	122.3	123.6	125.5	127.5	132.7	137.9
80°	107.3	99.5	91.0	90.4	92.3	94.3	96.2	98.2	100.2	106.7	112.5
82.5°	78.7	69.6	60.5	59.2	65.7	67.6	69.6	72.8	75.4	81.3	87.1
85°	47.5	38.4	29.3	28.6	34.5	37.7	41.0	44.9	48.1	53.3	58.5
87.5°	5.2	2.6	0.0	0.0	0.7	3.3	5.9	9.1	12.4	17.6	22.1
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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4166.0	4136.7	4166.7	4195.9	4208.3	4220.6	4188.8	4156.3	4207.0	4257.1	4270.1
5°	3412.9	3386.3	3406.4	3425.9	3382.4	3338.8	3334.2	3329.0	3366.8	3404.5	3410.3
7.5°	2645.5	2637.1	2655.9	2674.8	2619.5	2563.6	2536.3	2509.0	2518.1	2527.2	2525.9
10°	1972.5	1977.7	2001.1	2023.8	1980.9	1938.0	1919.1	1900.3	1921.1	1941.2	1960.1
12.5°	1477.5	1488.6	1513.3	1537.4	1519.8	1501.6	1503.6	1505.5	1529.6	1553.0	1573.8
15°	1147.8	1160.8	1178.4	1195.3	1196.0	1196.0	1212.9	1229.1	1227.2	1225.2	1239.5
17.5°	950.1	967.0	969.0	970.9	971.6	972.2	970.9	969.6	959.9	950.1	961.2
20°	813.6	819.4	824.6	829.2	823.3	816.8	800.6	784.3	777.8	771.3	781.7
22.5°	740.1	750.5	745.3	739.4	727.7	715.4	703.0	690.0	689.3	688.0	693.9
25°	678.3	686.7	677.6	668.5	660.1	651.6	643.2	634.7	634.1	633.4	636.0
27.5°	626.9	634.7	626.3	617.8	610.7	603.5	597.0	590.5	589.2	587.9	588.5
30°	582.7	589.8	582.7	574.9	569.7	563.8	559.3	554.7	554.1	553.4	553.4
32.5°	543.0	550.2	545.0	539.8	535.2	530.7	527.4	524.2	520.9	517.7	510.5
35°	508.6	515.7	512.5	508.6	503.4	498.2	492.3	485.8	477.3	468.2	464.3
37.5°	479.3	486.4	483.2	479.9	472.8	465.6	455.2	444.2	441.6	438.3	437.7
40°	455.9	466.9	460.4	453.3	442.2	431.2	426.0	420.8	419.5	418.2	416.9
42.5°	429.9	446.8	435.1	423.4	413.0	402.6	401.3	400.0	399.3	398.7	398.7
45°	397.4	415.6	403.9	391.5	385.6	379.8	379.8	379.8	380.4	380.4	381.7
47.5°	366.8	377.8	372.0	366.1	362.9	359.6	360.3	360.9	362.9	364.2	367.4
50°	340.8	344.7	346.0	346.6	344.7	342.7	344.0	344.7	346.6	347.9	350.5
52.5°	321.9	327.8	327.8	327.1	327.1	327.1	328.4	329.7	331.7	333.6	336.2
55°	309.6	318.0	315.4	312.8	313.5	313.5	314.8	316.1	318.0	319.3	323.2
57.5°	297.9	307.0	304.4	301.8	301.8	301.8	302.4	303.1	305.0	306.3	308.9
60°	284.2	293.3	290.7	287.4	288.1	288.7	289.4	289.4	290.7	291.3	291.3
62.5°	267.9	277.0	274.4	271.2	273.1	274.4	274.4	274.4	275.7	276.4	274.4
65°	251.0	259.5	256.9	254.3	256.9	258.8	260.1	260.8	260.1	259.5	257.5
67.5°	232.8	241.3	238.7	235.4	238.7	241.3	243.9	245.8	243.9	241.9	239.3
70°	213.3	221.8	218.5	215.3	218.5	221.8	224.4	227.0	224.4	221.8	221.1
72.5°	192.5	202.3	198.4	194.4	198.4	202.3	203.6	204.9	202.9	201.0	199.7
75°	169.7	179.5	176.2	172.3	175.6	178.8	179.5	180.1	180.1	179.5	175.6
77.5°	145.7	153.5	151.5	149.6	151.5	153.5	153.5	153.5	154.1	154.1	148.9
80°	117.1	121.6	122.3	122.9	123.6	124.2	123.6	122.9	121.6	120.3	117.1
82.5°	87.1	87.1	92.3	96.9	96.9	96.2	95.6	94.3	91.7	88.4	81.3
85°	55.3	52.0	60.5	68.3	68.3	67.6	66.3	64.4	59.2	53.3	47.5
87.5°	18.9	15.6	24.1	32.5	33.2	33.2	31.9	30.6	25.4	19.5	15.0
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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4289.6	4298.0	4305.8	4369.6	4432.6	4506.8	4580.9	4637.5	4693.4	4751.3	4809.2
5°	3430.5	3440.9	3451.3	3528.7	3605.4	3708.8	3812.2	3901.3	3990.4	4095.1	4199.8
7.5°	2542.8	2565.6	2587.7	2670.3	2752.2	2863.4	2974.0	3090.4	3206.1	3342.7	3479.3
10°	1997.2	2040.1	2082.4	2166.9	2251.4	2361.3	2470.6	2592.2	2713.8	2848.4	2982.4
12.5°	1616.7	1673.9	1730.5	1832.0	1933.4	2064.8	2195.5	2330.8	2465.4	2583.8	2702.1
15°	1277.2	1339.7	1401.5	1508.8	1616.1	1760.4	1904.2	2051.8	2198.8	2340.5	2482.3
17.5°	996.3	1047.7	1098.4	1189.5	1279.8	1419.7	1559.5	1714.3	1869.0	2042.0	2214.4
20°	803.8	825.3	846.7	912.4	977.4	1091.3	1204.4	1362.4	1520.5	1727.3	1934.1
22.5°	704.3	715.4	725.8	757.6	788.9	862.3	935.2	1075.0	1214.2	1439.8	1664.8
25°	644.5	652.9	661.4	682.2	703.0	738.1	773.2	871.4	969.6	1191.4	1412.5
27.5°	590.5	603.5	615.9	625.6	634.7	658.8	682.2	746.6	811.0	1017.8	1223.9
30°	551.5	556.0	560.6	575.5	589.8	614.6	639.3	684.1	729.0	904.0	1078.2
32.5°	506.0	512.5	519.0	534.6	550.2	572.9	595.7	632.1	667.9	817.5	966.4
35°	465.0	471.5	478.0	493.6	508.6	533.3	557.3	587.9	617.8	747.9	877.9
37.5°	439.6	446.1	452.6	466.3	479.3	504.0	528.1	552.1	575.5	695.9	816.2
40°	418.2	424.7	431.2	444.2	456.5	480.6	504.0	524.2	544.3	656.8	769.3
42.5°	399.3	406.5	413.6	426.6	439.0	460.4	481.9	508.6	534.6	623.0	710.8
45°	383.7	390.8	397.4	411.7	426.0	446.8	467.6	504.7	541.7	605.5	669.2
47.5°	369.4	377.2	384.3	400.0	415.6	441.6	466.9	498.2	528.7	591.8	654.9
50°	355.7	364.8	373.9	392.8	411.0	454.6	497.5	502.1	506.0	580.7	654.9
52.5°	342.7	353.1	363.5	386.9	409.7	460.4	511.2	494.9	478.0	559.9	641.9
55°	329.7	338.8	347.3	375.9	404.5	441.6	478.6	457.2	435.1	520.9	606.8
57.5°	312.2	321.9	331.0	361.6	392.1	418.2	443.5	424.0	403.9	476.7	548.9
60°	293.9	305.0	316.1	355.1	393.4	388.9	383.7	379.8	375.2	427.3	479.3
62.5°	277.7	289.4	301.1	351.8	402.6	371.3	340.1	343.4	346.0	384.3	422.7
65°	261.4	273.1	284.2	309.6	334.9	322.6	310.2	315.4	320.0	357.7	395.4
67.5°	243.2	253.6	263.4	271.8	280.3	281.6	282.9	288.1	293.3	338.2	382.4
70°	223.1	231.5	240.0	245.8	251.0	253.6	255.6	262.1	268.6	317.4	366.1
72.5°	200.3	207.5	214.0	219.2	224.4	226.3	227.6	234.1	240.6	292.6	344.7
75°	175.6	181.4	186.6	191.2	195.7	198.4	201.0	205.5	210.1	266.6	322.6
77.5°	148.3	154.1	159.3	163.2	166.5	169.1	171.0	176.9	182.7	230.2	277.0
80°	115.8	122.9	129.4	132.7	135.3	135.9	135.9	141.1	146.3	180.1	213.3
82.5°	81.9	89.7	96.9	99.5	102.1	102.1	102.1	108.0	113.8	136.6	158.7
85°	48.1	56.6	64.4	67.0	69.6	70.9	71.5	74.1	76.1	92.3	108.0
87.5°	15.0	22.1	28.6	29.9	31.2	33.8	36.4	37.1	37.1	48.1	59.2
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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

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: P320469

CATALOG NUMBER: GLEON-SA5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4875.5	4941.9	5019.2	5096.0	5161.7	5227.4	5282.0
5°	4333.1	4466.5	4629.7	4792.3	4937.3	5082.3	5250.8
7.5°	3651.6	3823.9	4035.3	4246.7	4451.5	4655.7	4914.5
10°	3158.0	3332.9	3556.7	3779.7	4009.9	4239.5	4532.1
12.5°	2844.5	2986.3	3202.9	3419.4	3690.0	3959.9	4241.5
15°	2637.7	2792.5	3003.2	3213.9	3509.8	3805.7	4129.6
17.5°	2417.3	2619.5	2889.4	3159.3	3509.8	3859.7	4241.5
20°	2186.4	2438.1	2788.0	3137.8	3610.0	4081.5	4568.6
22.5°	1956.2	2247.5	2696.3	3144.3	3761.5	4378.0	5035.5
25°	1748.7	2085.0	2640.3	3195.1	3982.0	4768.2	5583.7
27.5°	1591.4	1958.1	2617.6	3276.4	4261.6	5246.9	6180.1
30°	1451.5	1824.8	2590.3	3355.7	4530.8	5705.3	6646.4
32.5°	1330.6	1694.8	2537.6	3379.8	4718.8	6057.8	7041.1
35°	1235.6	1593.3	2449.1	3305.0	4836.5	6368.0	7452.1
37.5°	1153.7	1491.2	2348.3	3205.5	4941.2	6676.9	7914.5
40°	1075.6	1382.0	2261.8	3141.1	5085.6	7030.1	8402.9
42.5°	1001.5	1292.2	2192.3	3092.3	5219.5	7346.1	8830.2
45°	946.2	1223.3	2130.5	3037.0	5306.0	7575.0	9152.1
47.5°	918.9	1182.3	2097.3	3011.7	5392.5	7772.7	9419.4
50°	915.0	1175.1	2135.0	3094.9	5579.8	8064.1	9725.0
52.5°	914.4	1186.9	2243.6	3300.4	5927.8	8554.4	10056.0
55°	900.7	1194.0	2373.1	3551.5	6394.7	9237.3	10651.1
57.5°	859.1	1169.3	2506.4	3842.8	6888.3	9933.1	11321.6
60°	794.7	1109.5	2616.3	4122.4	7220.0	10316.8	11579.8
62.5°	714.1	1004.8	2652.7	4300.0	7210.9	10121.7	11319.6
65°	645.1	894.9	2533.0	4170.6	6846.0	9520.8	10805.2
67.5°	584.0	784.9	2233.9	3682.2	6189.8	8696.9	10151.0
70°	539.8	712.8	1848.2	2983.7	5368.5	7752.6	9393.4
72.5°	511.8	678.3	1506.8	2334.7	4356.6	6377.8	8034.8
75°	473.4	624.3	1182.3	1739.6	3334.2	4928.8	6068.9
77.5°	401.9	526.1	891.0	1255.8	2446.5	3636.6	4220.6
80°	310.2	406.5	612.6	818.8	1683.7	2548.6	2877.7
82.5°	221.1	283.5	371.3	459.1	1118.6	1777.4	1804.7
85°	136.6	165.2	212.7	260.1	740.1	1220.0	1016.5
87.5°	73.5	87.8	112.5	136.6	236.7	336.9	193.8
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: P320469
 CATALOG NUMBER: GLEON-SA5A-830-U-SLL

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.

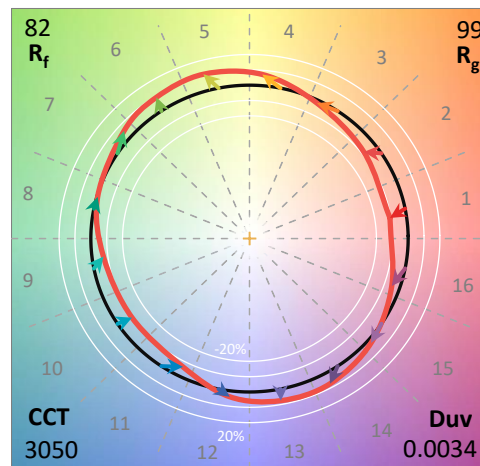
Test Information

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

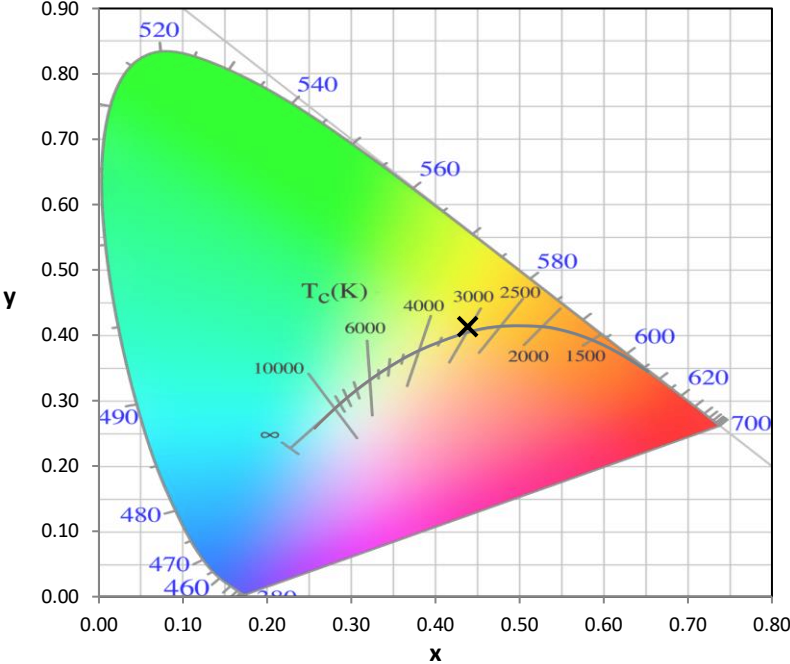
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

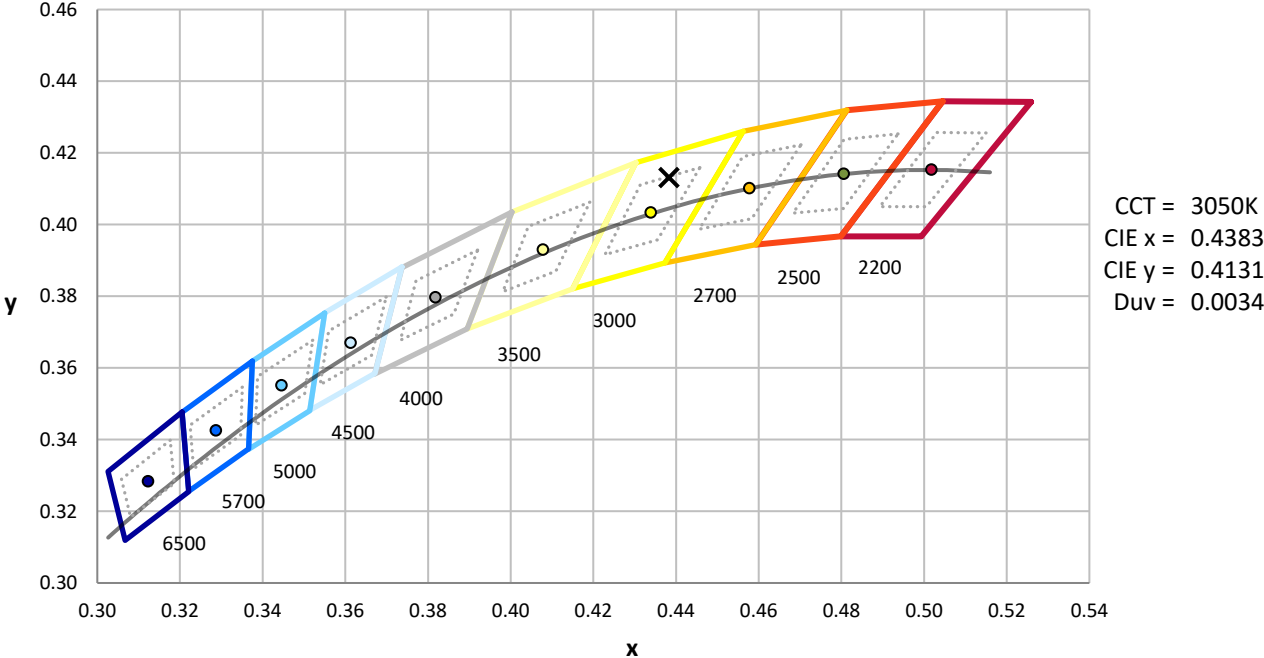
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



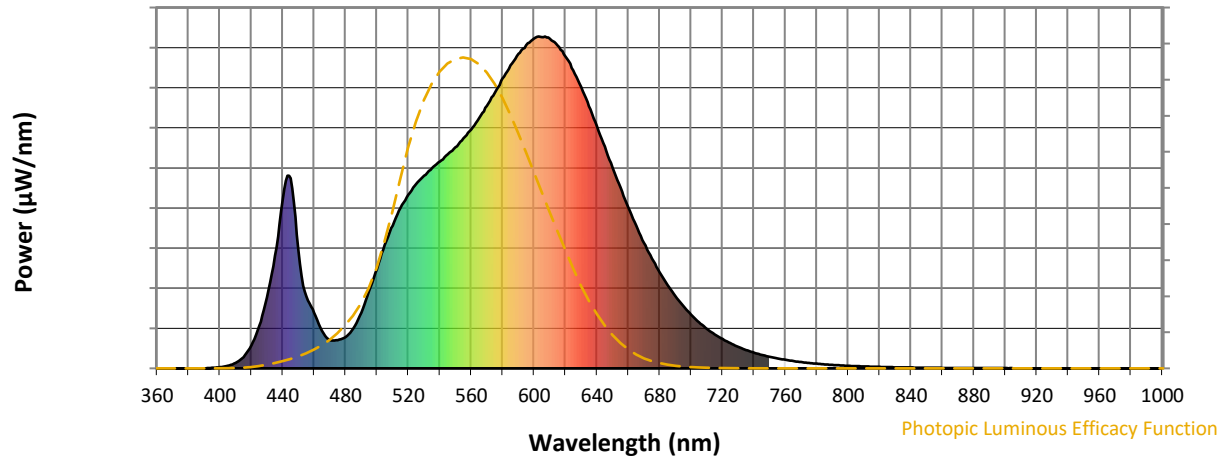
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

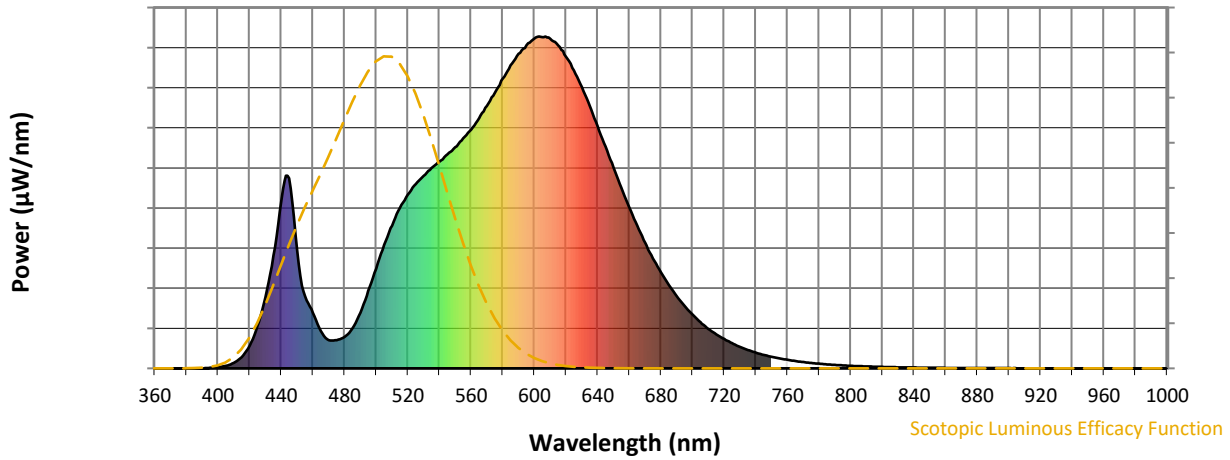


Photopic Lumens: NR

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



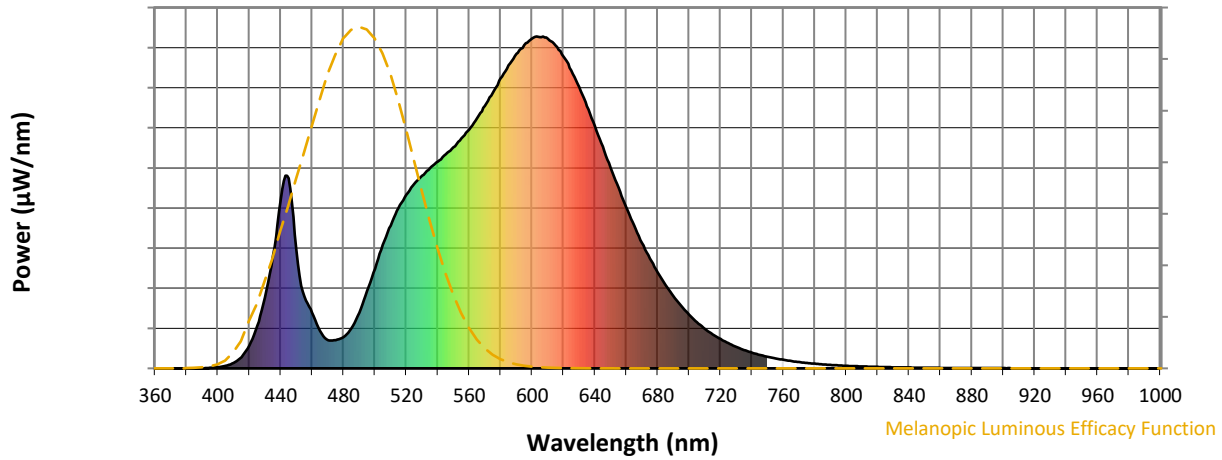
Scotopic Lumens: NR

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



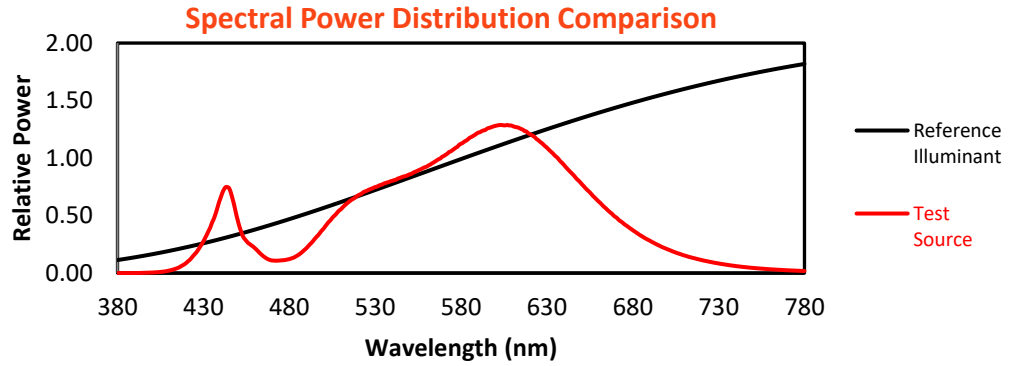
Melanopic Lumens: NR

M/P: 2.32

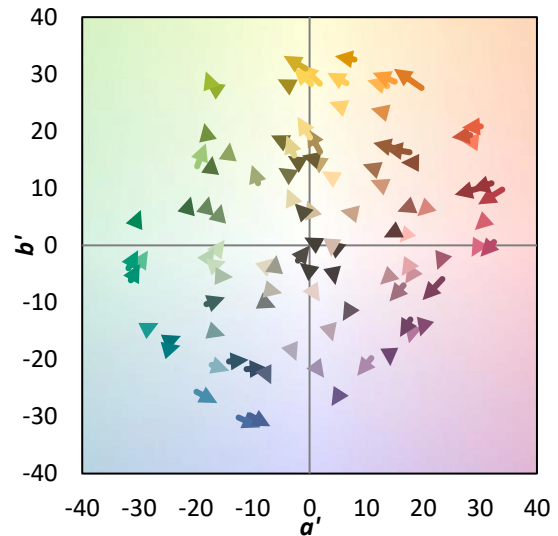
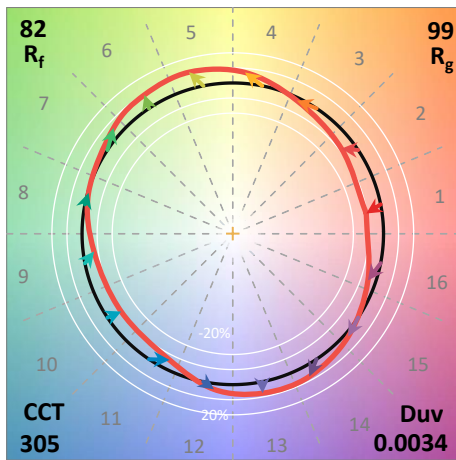
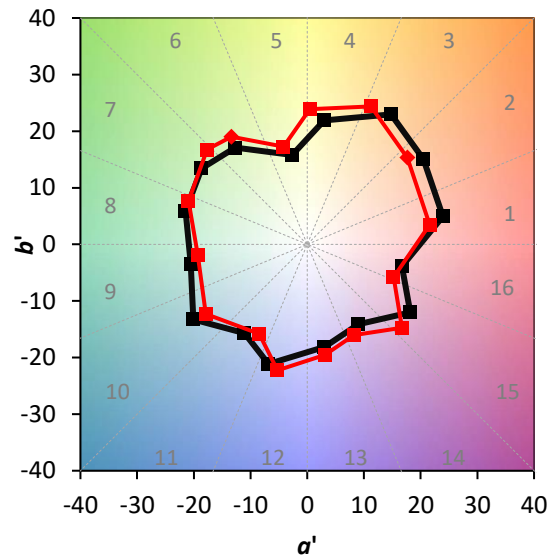
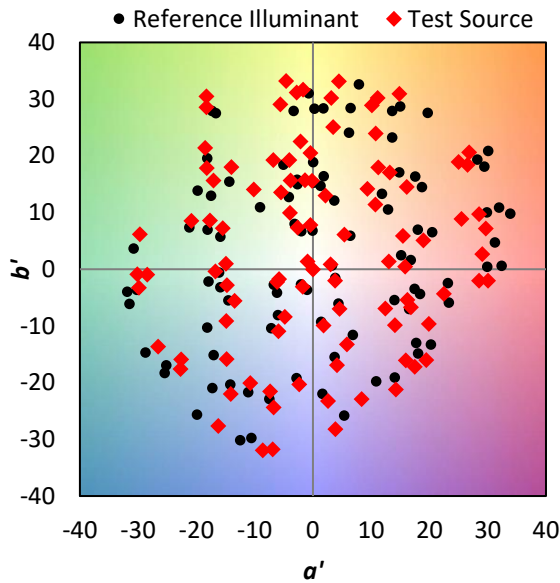
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

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

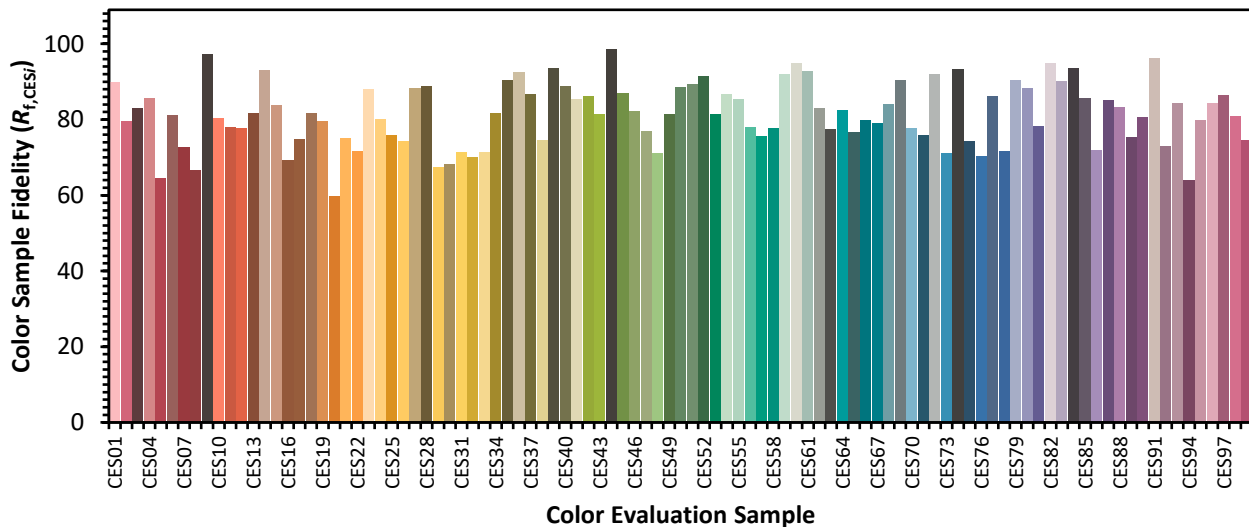


Color Vector Graphics

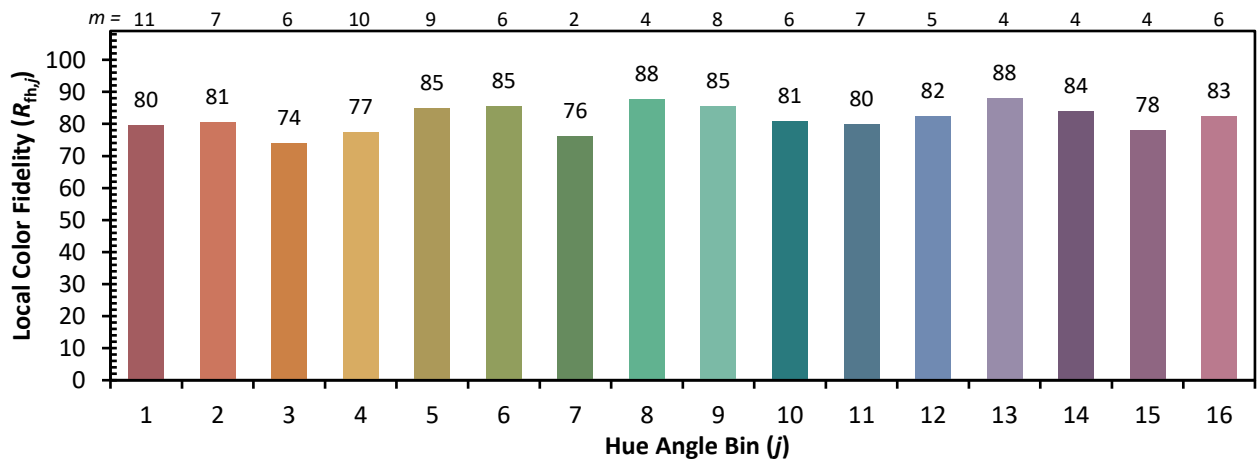
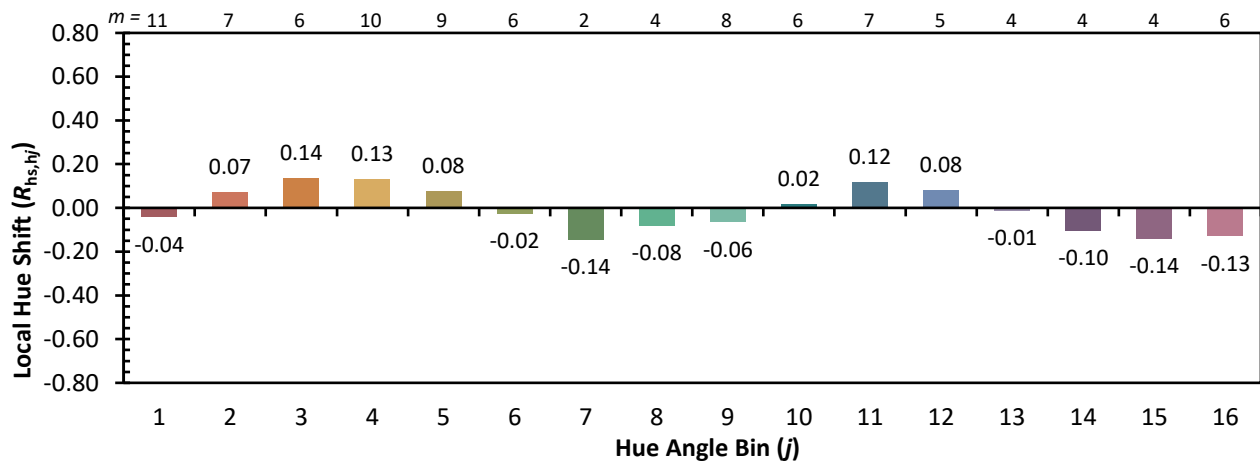
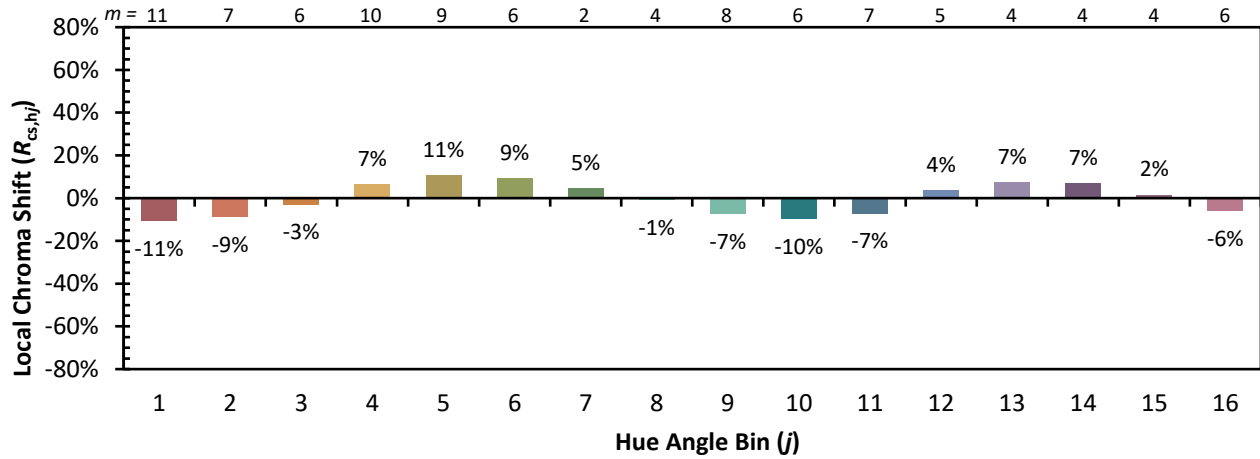


Individual Sample Fidelity Index ($R_{f,i}$)

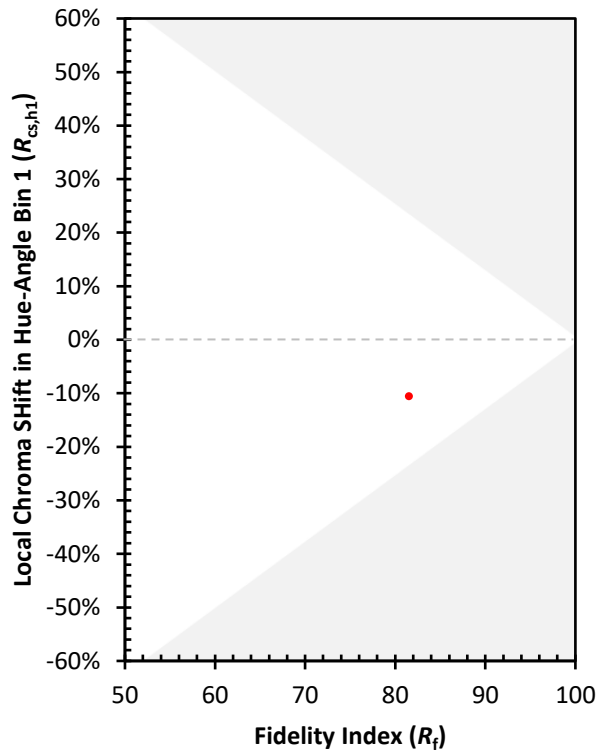
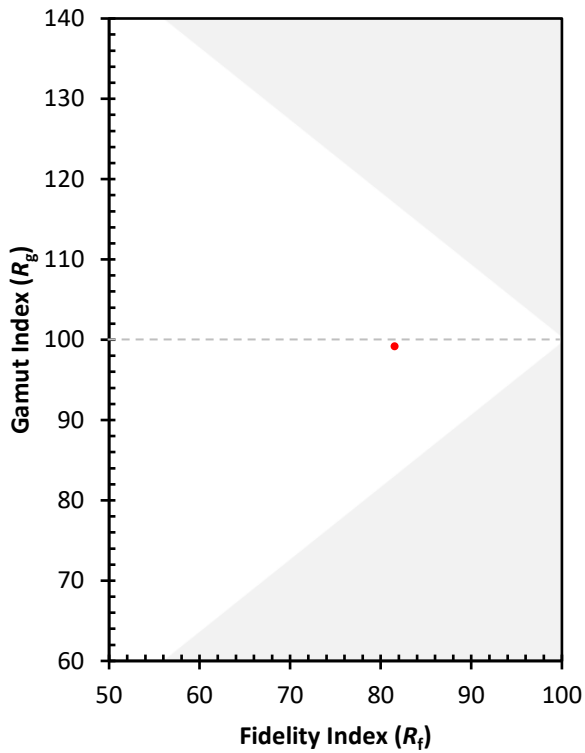
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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