

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: P320492

Luminaire Tested: **GLEON-SA8C-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320492
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-SA8C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 39587 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

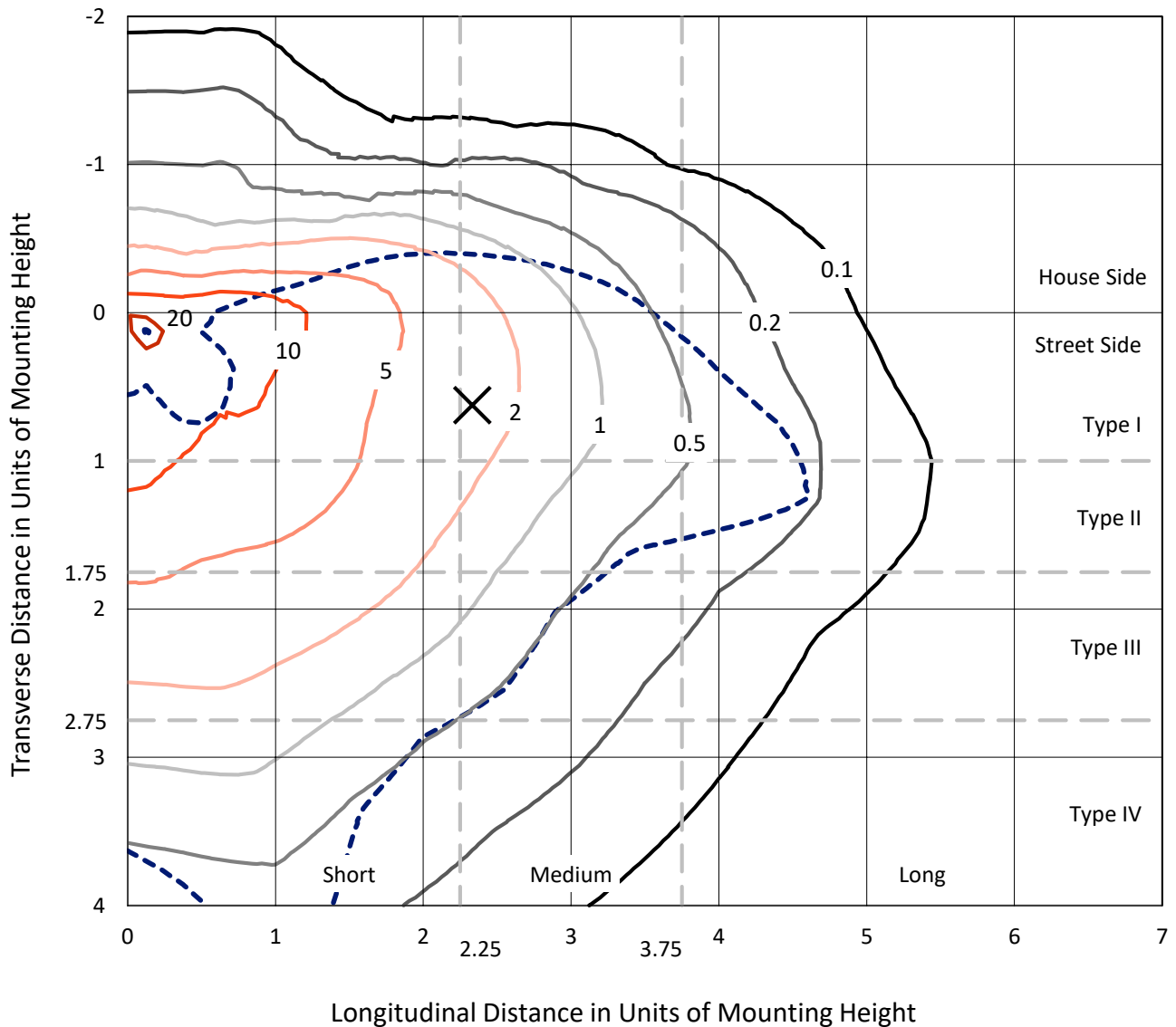
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

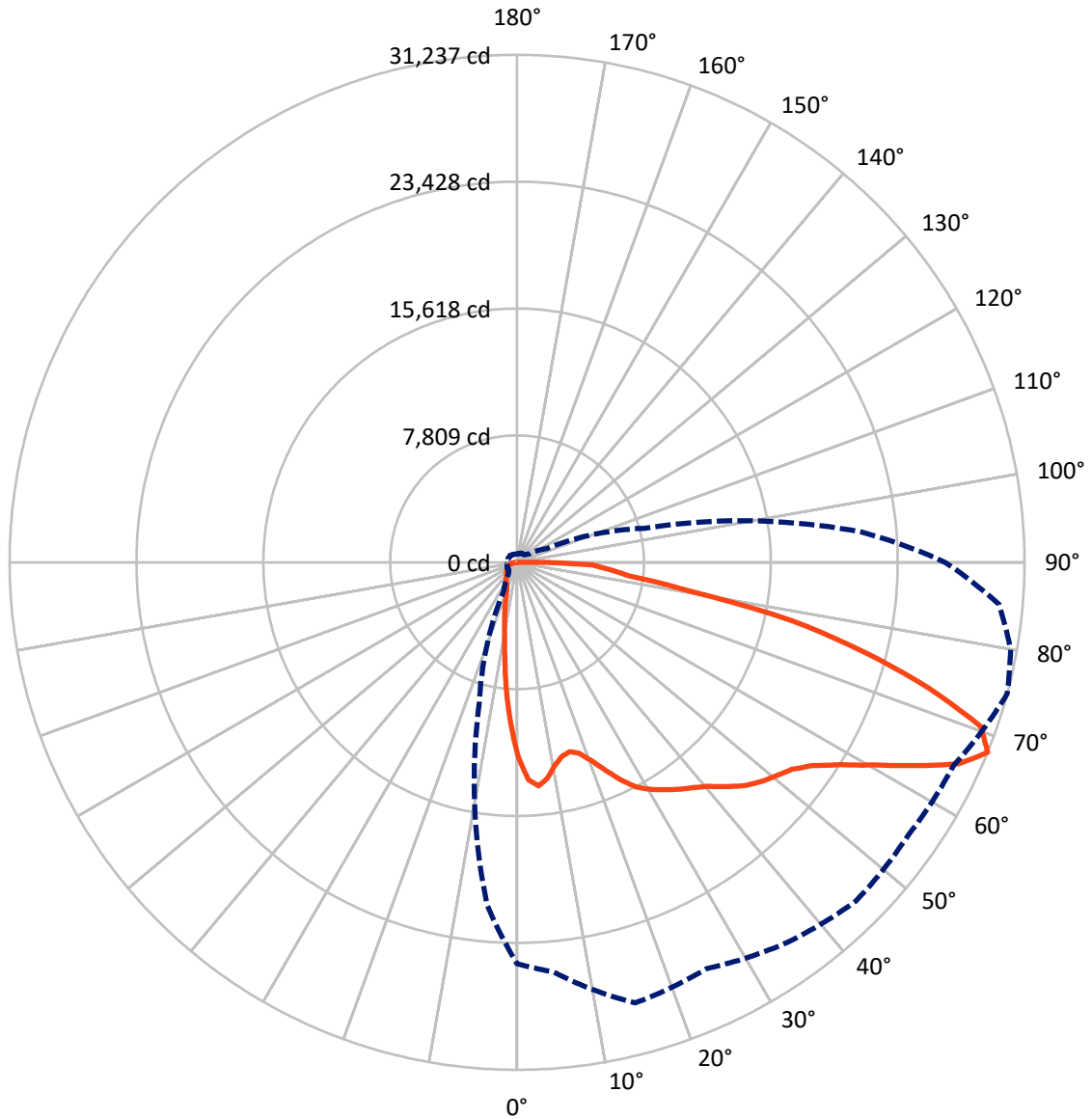
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 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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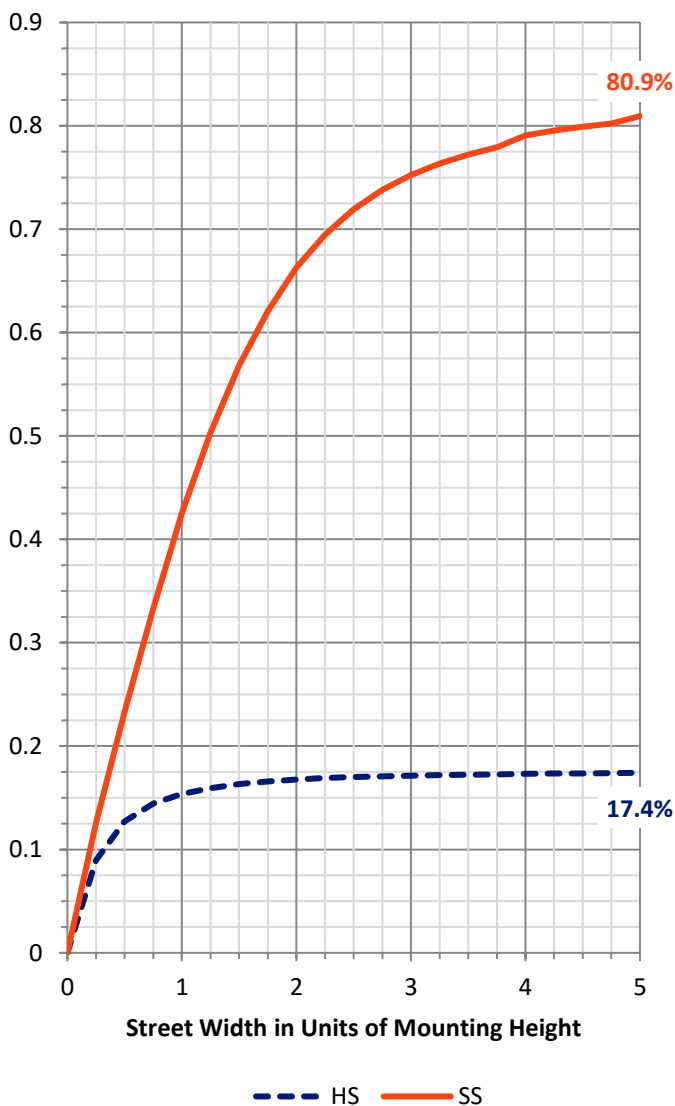
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6972.2	0.0	6972.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	32614.8	0.0	32614.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	39587.0	0.0	39587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.8	2.4
10°-20°	1933.6	4.9
20°-30°	2750.0	6.9
30°-40°	3962.8	10.0
40°-50°	5584.7	14.1
50°-60°	7763.7	19.6
60°-70°	9388.6	23.7
70°-80°	5771.0	14.6
80°-90°	1501.7	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°	39587.0	100.0
0°-180°	39587.0	100.0

Coefficient of Utilization

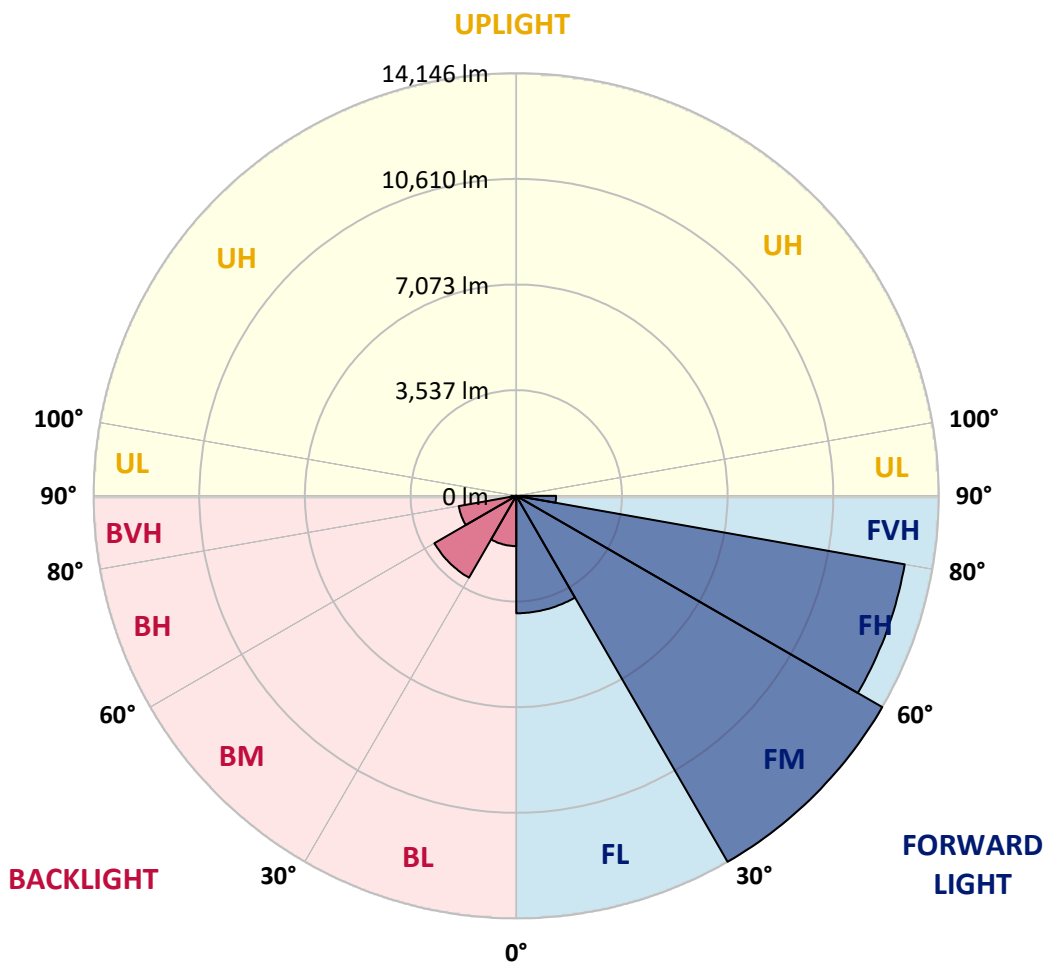


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3930.6	9.9			
FM (30°-60°)	14146.3	35.7			
FH (60°-80°)	13204.9	33.4			G5
FVH (80°-90°)	1333.0	3.4			G5
BL (0°-30°)	1683.9	4.3	B3/2500		
BM (30°-60°)	3164.9	8.0	B3/5000		
BH (60°-80°)	1954.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	168.7	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4
2.5°	12854.9	13024.2	13141.4	13256.9	13347.1	13435.8	13565.5	13695.3	13720.6	13744.4	13693.7
5°	12778.9	13192.0	13543.4	13893.2	14217.6	14542.1	14736.8	14931.4	14971.0	15010.6	14888.7
7.5°	11960.7	12570.0	13179.4	13788.7	14347.4	14906.1	15246.4	15585.1	15662.6	15738.6	15539.2
10°	11030.0	11739.1	12487.7	13236.3	13972.3	14708.3	15200.5	15692.7	15790.8	15889.0	15640.5
12.5°	10322.5	11096.5	11895.8	12695.0	13472.2	14247.7	14757.3	15267.0	15388.8	15510.7	15330.3
15°	10050.3	10898.6	11650.4	12402.2	13079.6	13755.5	14173.3	14589.6	14640.2	14689.3	14660.8
17.5°	10322.5	11257.9	11938.5	12617.5	12986.3	13353.5	13521.2	13687.4	13742.8	13796.6	13869.4
20°	11118.6	12128.4	12608.0	13086.0	13070.1	13052.7	12972.0	12889.7	12875.5	12861.2	13067.0
22.5°	12255.0	13427.8	13619.3	13809.3	13364.5	12919.8	12649.1	12376.9	12323.1	12267.7	12486.1
25°	13589.3	14838.0	14803.2	14766.8	13920.1	13071.7	12555.8	12039.8	11979.6	11919.5	12106.3
27.5°	15040.6	16234.0	16006.1	15778.2	14627.5	13476.9	12728.3	11979.6	11919.5	11859.4	12024.0
30°	16175.5	17258.0	16892.4	16526.8	15224.2	13921.6	13032.2	12142.7	12044.5	11944.8	12147.4
32.5°	17136.2	18057.3	17566.7	17076.0	15708.5	14341.1	13378.8	12416.5	12263.0	12109.4	12380.1
35°	18136.4	18855.0	18164.9	17473.3	16140.6	14806.4	13788.7	12769.4	12581.1	12392.7	12764.7
37.5°	19261.8	19858.5	18867.7	17875.3	16626.5	15377.8	14402.8	13426.3	13233.2	13040.1	13514.9
40°	20450.4	20947.4	19625.8	18304.2	17158.3	16012.4	15252.7	14491.4	14307.8	14122.7	14698.8
42.5°	21490.2	21852.7	20331.7	18810.7	17799.3	16786.4	16251.4	15714.9	15713.3	15710.1	16294.2
45°	22273.7	22588.7	20920.5	19250.7	18424.5	17596.7	17318.2	17039.6	17262.8	17485.9	18014.6
47.5°	22924.2	23137.9	21414.3	19689.1	19139.9	18590.7	18631.8	18673.0	19127.2	19581.5	19921.8
50°	23668.1	23495.6	21862.2	20227.2	20057.9	19888.5	20258.9	20627.7	21150.0	21670.7	21901.7
52.5°	24473.7	24016.3	22469.9	20922.0	21112.0	21301.9	22055.3	22808.7	23335.7	23862.7	23949.8
55°	25921.9	25220.7	23587.4	21952.4	22318.0	22682.0	23788.4	24893.1	25304.6	25716.1	25747.8
57.5°	27553.7	26931.6	25152.7	23373.7	23766.2	24158.7	25436.0	26711.7	27156.4	27599.6	27537.8
60°	28182.0	28212.1	26638.8	25064.0	25459.7	25855.4	27099.4	28343.4	28854.7	29364.3	29228.2
62.5°	27548.9	28291.2	27450.8	26608.8	26968.1	27325.7	28544.4	29763.1	30287.0	30810.9	30573.5
65°	26297.0	27032.9	27409.6	27786.3	27905.0	28023.7	29161.7	30298.1	30700.1	31100.5	30980.3
67.5°	24704.8	25299.9	26689.5	28077.5	27838.6	27599.6	28132.9	28666.3	29079.4	29492.5	29424.4
70°	22860.9	23569.9	25423.3	27276.7	26102.3	24926.3	24706.3	24486.3	24932.7	25377.4	25102.0
72.5°	19554.6	20624.5	22601.3	24576.6	22413.0	20249.4	19497.6	18745.8	19310.8	19875.9	19437.4
75°	14770.0	16189.7	18373.9	20556.4	17975.0	15393.6	14390.1	13386.7	13872.6	14358.5	14057.8
77.5°	10271.9	12052.5	14203.4	16354.3	13730.1	11104.4	10358.9	9611.9	9757.5	9901.5	9850.9
80°	7003.6	8174.8	9675.2	11174.0	9426.7	7679.4	7737.9	7794.9	7726.9	7657.2	7758.5
82.5°	4392.1	5216.7	6375.2	7532.2	6604.7	5677.2	6209.0	6740.8	6479.7	6216.9	6315.1
85°	2473.8	2977.1	4110.3	5242.0	4885.9	4528.2	4840.0	5150.2	4745.0	4339.8	4518.7
87.5°	471.7	785.0	2274.4	3762.1	3415.5	3068.9	2666.9	2264.9	1728.3	1191.8	1741.0
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



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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°	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4
2.5°	13643.1	13616.2	13589.3	13492.7	13394.6	13249.0	13128.7	12919.8	12805.8	12633.3	12460.8
5°	14765.2	14594.3	14423.4	14129.0	13833.0	13503.8	13125.5	12706.1	12389.6	11978.1	11566.6
7.5°	15339.8	14940.9	14540.5	13975.5	13408.8	12899.2	12300.9	11743.8	11269.0	10734.0	10199.1
10°	15392.0	14793.7	14193.9	13459.5	12723.5	12104.7	11416.2	10797.4	10227.6	9613.5	8997.8
12.5°	15148.3	14512.0	13874.2	13065.4	12255.0	11552.3	10811.6	10118.4	9486.9	8811.0	8133.6
15°	14632.3	14124.2	13614.6	12856.5	12098.4	11389.3	10670.7	9849.3	9135.5	8443.8	7750.6
17.5°	13940.6	13700.1	13457.9	12910.3	12361.1	11747.0	11050.6	10086.7	9251.0	8499.2	7747.4
20°	13271.1	13359.8	13446.8	13228.4	13010.0	12517.8	11910.0	10827.4	9760.7	8777.8	7793.3
22.5°	12703.0	13128.7	13552.9	13722.2	13890.0	13594.0	13119.2	11867.3	10455.5	9171.9	7888.3
25°	12291.4	12997.3	13703.2	14266.7	14828.6	14697.2	14331.6	13130.3	11376.6	9740.1	8102.0
27.5°	12188.6	13054.3	13920.1	14793.7	15665.8	15787.7	15686.4	14461.4	12475.0	10446.0	8415.3
30°	12350.0	13226.8	14102.1	15165.7	16227.7	16713.6	16849.7	15570.8	13730.1	11269.0	8806.3
32.5°	12650.7	13510.1	14369.6	15528.1	16685.1	17419.5	17853.1	16585.4	14605.4	11889.4	9171.9
35°	13136.6	13940.6	14744.7	15950.7	17156.7	18106.4	18897.7	17633.1	15382.5	12323.1	9262.1
37.5°	13988.1	14679.8	15371.4	16485.7	17598.3	18829.7	20018.3	18786.9	16222.9	12740.9	9257.4
40°	15274.9	15763.9	16251.4	17193.1	18133.3	19682.8	21287.7	20073.7	17152.0	13193.6	9235.2
42.5°	16878.2	17129.8	17379.9	18125.4	18870.8	20573.8	22439.9	21332.0	18038.3	13614.6	9190.9
45°	18541.6	18608.1	18674.6	19144.6	19613.1	21279.7	23224.9	22276.9	18812.3	13980.2	9146.6
47.5°	20260.5	20032.6	19804.6	19991.4	20178.2	21821.0	23785.2	22993.8	19589.4	14385.4	9179.8
50°	22132.8	21498.2	20863.5	20765.4	20667.2	22362.3	24445.2	23905.5	20523.2	14975.7	9428.3
52.5°	24035.3	22989.1	21942.9	21555.1	21165.8	23008.1	25320.4	25040.3	21855.9	15890.6	9923.7
55°	25779.4	24448.4	23117.3	22595.0	22072.7	23995.7	26388.8	26706.9	23563.6	17060.2	10555.2
57.5°	27474.5	25966.2	24457.9	23973.5	23489.2	25447.1	27742.0	28202.6	25288.8	18182.3	11074.3
60°	29092.1	27599.6	26105.5	25717.7	25328.3	27251.4	29204.4	28868.9	26178.3	18707.8	11235.8
62.5°	30336.1	29149.0	27962.0	27757.8	27552.1	29076.2	30328.2	28609.3	25613.2	18190.3	10767.3
65°	30860.0	30184.1	29506.7	29698.3	29888.2	30456.4	30608.3	27849.6	23837.4	16740.5	9643.5
67.5°	29354.8	29492.5	29630.2	30434.2	31236.7	30845.7	29775.8	26352.4	21309.8	14686.1	8062.4
70°	24825.0	25651.2	26475.8	28378.3	30279.1	29411.8	27545.7	23664.9	18267.8	12319.9	6370.5
72.5°	18997.4	19926.5	20854.0	23677.6	26499.6	25700.3	23414.8	19437.4	14646.5	9838.2	5028.3
75°	13755.5	14804.8	15852.6	18967.4	22082.2	20972.7	17514.4	13916.9	11125.0	7510.0	3893.5
77.5°	9798.7	10501.4	11204.1	14280.9	17356.2	15548.7	11658.4	9365.0	7700.0	5219.8	2738.1
80°	7859.8	7644.6	7429.3	9143.4	10857.5	10556.8	7711.0	6014.4	5329.0	3497.8	1666.6
82.5°	6411.6	5886.2	5360.7	6167.9	6975.1	6930.8	5351.2	4412.6	3966.3	2431.1	895.8
85°	4695.9	4485.4	4274.9	4988.7	5702.6	5093.2	3624.4	2804.6	3092.6	1790.1	487.5
87.5°	2290.2	2616.2	2940.7	3782.7	4623.1	3470.9	1100.0	544.5	753.4	495.4	235.8
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: P320492
 CATALOG NUMBER: GLEON-SA8C-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: P320492
 CATALOG NUMBER: GLEON-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4
2.5°	12332.6	12202.8	12055.6	11908.4	11740.7	11571.3	11471.6	11370.3	11261.1	11151.9	11028.4
5°	11294.3	11022.1	10713.5	10404.8	10099.4	9793.9	9629.3	9464.7	9290.6	9114.9	8963.0
7.5°	9803.4	9406.1	8978.8	8549.9	8170.0	7788.6	7552.8	7315.4	7100.1	6883.3	6701.3
10°	8491.3	7984.8	7555.9	7125.4	6839.0	6552.5	6335.6	6118.8	5909.9	5699.4	5498.4
12.5°	7627.2	7120.7	6848.5	6576.2	6338.8	6101.4	5851.3	5599.7	5313.2	5025.2	4814.6
15°	7290.0	6829.5	6527.2	6223.3	5905.1	5585.4	5278.4	4971.3	4632.6	4293.9	4054.9
17.5°	7144.4	6541.4	6118.8	5694.6	5275.2	4855.8	4499.7	4143.6	3773.2	3402.9	3160.7
20°	6990.9	6188.5	5621.8	5053.6	4515.5	3977.4	3573.8	3170.2	2839.4	2508.6	2323.4
22.5°	6851.6	5813.3	5102.7	4390.5	3754.2	3118.0	2722.3	2325.0	2122.4	1919.8	1845.5
25°	6794.6	5485.7	4612.1	3738.4	3067.3	2394.7	2112.9	1831.2	1753.7	1674.5	1636.5
27.5°	6804.1	5192.9	4199.0	3203.4	2598.8	1994.2	1801.1	1608.0	1560.6	1511.5	1487.8
30°	6840.5	4874.8	3809.6	2744.4	2245.9	1747.3	1622.3	1495.7	1445.0	1394.4	1364.3
32.5°	6881.7	4589.9	3508.9	2426.3	2019.6	1611.2	1508.3	1403.9	1354.8	1305.7	1275.7
35°	6810.5	4357.2	3303.1	2249.1	1873.9	1497.3	1410.2	1321.6	1267.8	1214.0	1185.5
37.5°	6690.2	4123.0	3143.3	2162.0	1779.0	1394.4	1331.1	1266.2	1210.8	1153.8	1126.9
40°	6581.0	3925.2	3024.6	2122.4	1726.8	1329.5	1275.7	1221.9	1164.9	1106.3	1074.7
42.5°	6492.3	3792.2	2907.5	2022.7	1679.3	1334.2	1258.3	1180.7	1125.3	1069.9	1035.1
45°	6425.9	3705.2	2815.7	1926.2	1635.0	1343.7	1247.2	1150.6	1095.2	1038.3	997.1
47.5°	6419.5	3659.3	2750.8	1842.3	1551.1	1258.3	1218.7	1179.1	1098.4	1016.1	968.6
50°	6506.6	3584.9	2674.8	1763.2	1470.4	1177.5	1231.4	1283.6	1145.9	1006.6	946.5
52.5°	6688.6	3453.5	2554.5	1655.5	1372.2	1087.3	1171.2	1253.5	1134.8	1014.5	937.0
55°	6908.6	3260.4	2372.5	1483.0	1242.4	1000.3	1074.7	1147.5	1073.1	997.1	903.7
57.5°	7046.3	3016.7	2143.0	1269.3	1096.8	924.3	967.0	1008.2	978.1	948.1	853.1
60°	6964.0	2692.2	1885.0	1076.3	968.6	861.0	853.1	843.6	887.9	932.2	823.0
62.5°	6562.0	2356.7	1657.1	957.5	876.8	794.5	777.1	758.1	830.9	902.2	786.6
65°	5883.0	2122.4	1513.1	903.7	813.5	723.3	704.3	685.3	707.5	729.6	675.8
67.5°	5020.4	1978.4	1430.8	883.2	774.0	663.2	641.0	618.8	614.1	609.3	590.4
70°	4130.9	1889.8	1377.0	864.2	731.2	596.7	576.1	555.5	549.2	541.3	527.0
72.5°	3453.5	1878.7	1370.6	862.6	696.4	530.2	511.2	492.2	484.3	474.8	463.7
75°	2828.3	1763.2	1301.0	838.8	648.9	457.4	440.0	422.6	416.3	408.3	398.8
77.5°	2098.7	1459.3	1093.7	728.1	555.5	383.0	365.6	346.6	345.0	341.9	334.0
80°	1361.1	1055.7	781.9	508.1	405.2	300.7	286.5	270.6	272.2	273.8	267.5
82.5°	756.5	615.7	478.0	340.3	277.0	213.7	207.3	199.4	204.2	207.3	199.4
85°	398.8	310.2	256.4	202.6	159.9	117.1	117.1	115.5	121.9	128.2	121.9
87.5°	172.5	109.2	93.4	76.0	42.7	7.9	9.5	9.5	12.7	15.8	14.2
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: P320492
 CATALOG NUMBER: GLEON-SA8C-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: P320492

CATALOG NUMBER: GLEON-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4
2.5°	10903.4	10787.9	10670.7	10542.5	10566.3	10468.1	10370.0	10308.3	10246.6	10227.6	10208.6
5°	8811.0	8679.7	8546.7	8428.0	8530.9	8461.2	8391.6	8382.1	8371.0	8371.0	8369.5
7.5°	6519.2	6378.4	6235.9	6137.8	6239.1	6226.4	6213.8	6281.8	6349.9	6405.3	6459.1
10°	5297.4	5126.4	4953.9	4808.3	4783.0	4710.2	4635.8	4651.6	4665.9	4726.0	4786.2
12.5°	4604.1	4400.0	4195.8	4024.9	3947.3	3827.0	3705.2	3629.2	3553.2	3561.1	3567.5
15°	3814.4	3616.5	3417.1	3269.9	3220.8	3127.5	3034.1	2939.1	2842.6	2803.0	2761.9
17.5°	2917.0	2758.7	2598.8	2500.7	2500.7	2473.8	2446.9	2399.4	2350.3	2310.8	2269.6
20°	2138.3	2054.4	1968.9	1927.8	1940.4	1942.0	1942.0	1965.7	1989.5	1976.8	1964.2
22.5°	1769.5	1739.4	1709.3	1691.9	1698.3	1699.8	1701.4	1723.6	1744.2	1760.0	1774.2
25°	1597.0	1578.0	1559.0	1552.7	1566.9	1568.5	1568.5	1582.7	1597.0	1612.8	1628.6
27.5°	1462.4	1454.5	1446.6	1435.5	1449.8	1449.8	1448.2	1464.0	1478.3	1492.5	1505.2
30°	1334.2	1337.4	1339.0	1335.8	1345.3	1351.6	1356.4	1367.5	1377.0	1388.0	1399.1
32.5°	1244.0	1239.3	1234.5	1231.4	1251.9	1263.0	1274.1	1285.2	1294.7	1299.4	1304.2
35°	1157.0	1145.9	1134.8	1126.9	1145.9	1160.1	1174.4	1195.0	1214.0	1217.1	1220.3
37.5°	1098.4	1084.2	1069.9	1060.4	1068.3	1074.7	1081.0	1103.2	1125.3	1138.0	1149.1
40°	1043.0	1028.8	1014.5	1006.6	1011.4	1012.9	1014.5	1025.6	1035.1	1058.8	1081.0
42.5°	998.7	981.3	963.9	954.4	957.5	960.7	962.3	960.7	959.1	981.3	1003.4
45°	954.4	935.4	916.4	905.3	906.9	906.9	906.9	903.7	899.0	910.1	921.1
47.5°	919.6	897.4	875.2	864.2	861.0	857.8	854.7	853.1	849.9	857.8	864.2
50°	884.7	861.0	835.7	823.0	815.1	811.9	808.8	807.2	804.0	811.9	818.3
52.5°	857.8	829.3	800.9	780.3	772.4	767.6	762.9	764.5	764.5	767.6	769.2
55°	810.4	785.0	758.1	743.9	729.6	726.5	723.3	728.1	731.2	731.2	731.2
57.5°	758.1	734.4	709.1	699.6	686.9	686.9	685.3	691.7	696.4	699.6	702.7
60°	712.2	685.3	658.4	650.5	645.8	644.2	642.6	650.5	656.8	663.2	669.5
62.5°	669.5	641.0	612.5	603.0	601.4	603.0	603.0	610.9	617.3	623.6	629.9
65°	622.0	593.5	563.5	554.0	557.1	561.9	566.6	572.9	577.7	584.0	590.4
67.5°	569.8	546.0	520.7	511.2	512.8	519.1	525.5	530.2	533.4	539.7	546.0
70°	512.8	492.2	471.7	465.3	463.7	471.7	478.0	481.1	484.3	492.2	498.6
72.5°	451.1	433.7	416.3	411.5	413.1	417.8	422.6	427.3	430.5	438.4	444.7
75°	387.8	371.9	356.1	352.9	356.1	360.9	365.6	368.8	371.9	381.4	389.4
77.5°	326.0	308.6	289.6	288.1	292.8	297.6	300.7	305.5	310.2	322.9	335.5
80°	261.1	242.2	221.6	220.0	224.7	229.5	234.2	239.0	243.7	259.6	273.8
82.5°	191.5	169.4	147.2	144.0	159.9	164.6	169.4	177.3	183.6	197.8	212.1
85°	115.5	93.4	71.2	69.6	83.9	91.8	99.7	109.2	117.1	129.8	142.4
87.5°	12.7	6.3	0.0	0.0	1.6	7.9	14.2	22.2	30.1	42.7	53.8
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: P320492
 CATALOG NUMBER: GLEON-SA8C-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: P320492

CATALOG NUMBER: GLEON-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4
2.5°	10138.9	10067.7	10140.5	10211.7	10241.8	10271.9	10194.3	10115.2	10238.6	10360.5	10392.2
5°	8306.1	8241.2	8290.3	8337.8	8231.8	8125.7	8114.6	8102.0	8193.8	8285.6	8299.8
7.5°	6438.5	6418.0	6463.8	6509.7	6375.2	6239.1	6172.6	6106.2	6128.3	6150.5	6147.3
10°	4800.4	4813.1	4870.0	4925.4	4821.0	4716.5	4670.6	4624.7	4675.4	4724.4	4770.3
12.5°	3596.0	3622.9	3683.0	3741.6	3698.8	3654.5	3659.3	3664.0	3722.6	3779.5	3830.2
15°	2793.5	2825.2	2867.9	2909.0	2910.6	2910.6	2951.8	2991.4	2986.6	2981.9	3016.7
17.5°	2312.4	2353.5	2358.3	2363.0	2364.6	2366.2	2363.0	2359.8	2336.1	2312.4	2339.3
20°	1980.0	1994.2	2006.9	2018.0	2003.7	1987.9	1948.3	1908.8	1892.9	1877.1	1902.4
22.5°	1801.1	1826.5	1813.8	1799.6	1771.1	1741.0	1710.9	1679.3	1677.7	1674.5	1688.8
25°	1650.8	1671.4	1649.2	1627.0	1606.5	1585.9	1565.3	1544.7	1543.2	1541.6	1547.9
27.5°	1525.7	1544.7	1524.2	1503.6	1486.2	1468.8	1452.9	1437.1	1433.9	1430.8	1432.4
30°	1418.1	1435.5	1418.1	1399.1	1386.5	1372.2	1361.1	1350.1	1348.5	1346.9	1346.9
32.5°	1321.6	1339.0	1326.3	1313.7	1302.6	1291.5	1283.6	1275.7	1267.8	1259.8	1242.4
35°	1237.7	1255.1	1247.2	1237.7	1225.0	1212.4	1198.1	1182.3	1161.7	1139.6	1130.1
37.5°	1166.5	1183.9	1176.0	1168.1	1150.6	1133.2	1107.9	1081.0	1074.7	1066.8	1065.2
40°	1109.5	1136.4	1120.6	1103.2	1076.3	1049.3	1036.7	1024.0	1020.9	1017.7	1014.5
42.5°	1046.2	1087.3	1058.8	1030.4	1005.0	979.7	976.5	973.4	971.8	970.2	970.2
45°	967.0	1011.4	982.9	952.8	938.6	924.3	924.3	924.3	925.9	925.9	929.1
47.5°	892.7	919.6	905.3	891.1	883.2	875.2	876.8	878.4	883.2	886.3	894.2
50°	829.3	838.8	842.0	843.6	838.8	834.1	837.3	838.8	843.6	846.8	853.1
52.5°	783.4	797.7	797.7	796.1	796.1	796.1	799.3	802.4	807.2	811.9	818.3
55°	753.4	774.0	767.6	761.3	762.9	762.9	766.0	769.2	774.0	777.1	786.6
57.5°	724.9	747.0	740.7	734.4	734.4	734.4	736.0	737.5	742.3	745.5	751.8
60°	691.7	713.8	707.5	699.6	701.1	702.7	704.3	704.3	707.5	709.1	709.1
62.5°	652.1	674.2	667.9	660.0	664.7	667.9	667.9	667.9	671.1	672.7	667.9
65°	610.9	631.5	625.2	618.8	625.2	629.9	633.1	634.7	633.1	631.5	626.8
67.5°	566.6	587.2	580.9	572.9	580.9	587.2	593.5	598.3	593.5	588.8	582.4
70°	519.1	539.7	531.8	523.9	531.8	539.7	546.0	552.4	546.0	539.7	538.1
72.5°	468.5	492.2	482.7	473.2	482.7	492.2	495.4	498.6	493.8	489.1	485.9
75°	413.1	436.8	428.9	419.4	427.3	435.2	436.8	438.4	438.4	436.8	427.3
77.5°	354.5	373.5	368.8	364.0	368.8	373.5	373.5	373.5	375.1	375.1	362.4
80°	284.9	296.0	297.6	299.1	300.7	302.3	300.7	299.1	296.0	292.8	284.9
82.5°	212.1	212.1	224.7	235.8	235.8	234.2	232.7	229.5	223.2	215.3	197.8
85°	134.5	126.6	147.2	166.2	166.2	164.6	161.4	156.7	144.0	129.8	115.5
87.5°	45.9	38.0	58.6	79.1	80.7	80.7	77.6	74.4	61.7	47.5	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320492
 CATALOG NUMBER: GLEON-SA8C-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: P320492
 CATALOG NUMBER: GLEON-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4
2.5°	10439.7	10460.2	10479.2	10634.3	10787.9	10968.3	11148.7	11286.4	11422.5	11563.4	11704.3
5°	8348.9	8374.2	8399.5	8587.9	8774.6	9026.3	9277.9	9494.8	9711.6	9966.4	10221.2
7.5°	6188.5	6243.9	6297.7	6498.7	6698.1	6968.7	7237.8	7521.1	7802.8	8135.2	8467.6
10°	4860.5	4965.0	5067.9	5273.6	5479.4	5746.9	6012.8	6308.7	6604.7	6932.3	7258.4
12.5°	3934.7	4073.9	4211.6	4458.5	4705.4	5025.2	5343.3	5672.5	6000.1	6288.2	6576.2
15°	3108.5	3260.4	3410.8	3671.9	3933.1	4284.4	4634.2	4993.5	5351.2	5696.2	6041.3
17.5°	2424.7	2549.8	2673.2	2894.8	3114.8	3455.1	3795.4	4172.1	4548.8	4969.8	5389.2
20°	1956.2	2008.5	2060.7	2220.6	2378.8	2655.8	2931.2	3315.8	3700.4	4203.7	4707.0
22.5°	1714.1	1741.0	1766.3	1843.9	1919.8	2098.7	2276.0	2616.2	2954.9	3504.2	4051.8
25°	1568.5	1589.1	1609.6	1660.3	1710.9	1796.4	1881.9	2120.9	2359.8	2899.6	3437.7
27.5°	1437.1	1468.8	1498.8	1522.6	1544.7	1603.3	1660.3	1817.0	1973.7	2477.0	2978.7
30°	1342.2	1353.2	1364.3	1400.7	1435.5	1495.7	1555.8	1665.0	1774.2	2200.0	2624.2
32.5°	1231.4	1247.2	1263.0	1301.0	1339.0	1394.4	1449.8	1538.4	1625.5	1989.5	2351.9
35°	1131.6	1147.5	1163.3	1201.3	1237.7	1297.8	1356.4	1430.8	1503.6	1820.1	2136.7
37.5°	1069.9	1085.7	1101.6	1134.8	1166.5	1226.6	1285.2	1343.7	1400.7	1693.5	1986.3
40°	1017.7	1033.5	1049.3	1081.0	1111.1	1169.6	1226.6	1275.7	1324.7	1598.6	1872.4
42.5°	971.8	989.2	1006.6	1038.3	1068.3	1120.6	1172.8	1237.7	1301.0	1516.3	1729.9
45°	933.8	951.2	967.0	1001.9	1036.7	1087.3	1138.0	1228.2	1318.4	1473.5	1628.6
47.5°	899.0	918.0	935.4	973.4	1011.4	1074.7	1136.4	1212.4	1286.8	1440.3	1593.8
50°	865.8	887.9	910.1	956.0	1000.3	1106.3	1210.8	1221.9	1231.4	1413.4	1593.8
52.5°	834.1	859.4	884.7	941.7	997.1	1120.6	1244.0	1204.5	1163.3	1362.7	1562.1
55°	802.4	824.6	845.2	914.8	984.5	1074.7	1164.9	1112.7	1058.8	1267.8	1476.7
57.5°	759.7	783.4	805.6	880.0	954.4	1017.7	1079.4	1031.9	982.9	1160.1	1335.8
60°	715.4	742.3	769.2	864.2	957.5	946.5	933.8	924.3	913.2	1039.9	1166.5
62.5°	675.8	704.3	732.8	856.3	979.7	903.7	827.8	835.7	842.0	935.4	1028.8
65°	636.3	664.7	691.7	753.4	815.1	785.0	755.0	767.6	778.7	870.5	962.3
67.5°	591.9	617.3	641.0	661.6	682.2	685.3	688.5	701.1	713.8	823.0	930.6
70°	542.9	563.5	584.0	598.3	610.9	617.3	622.0	637.8	653.7	772.4	891.1
72.5°	487.5	504.9	520.7	533.4	546.0	550.8	554.0	569.8	585.6	712.2	838.8
75°	427.3	441.6	454.2	465.3	476.4	482.7	489.1	500.1	511.2	648.9	785.0
77.5°	360.9	375.1	387.8	397.3	405.2	411.5	416.3	430.5	444.7	560.3	674.2
80°	281.7	299.1	315.0	322.9	329.2	330.8	330.8	343.5	356.1	438.4	519.1
82.5°	199.4	218.4	235.8	242.2	248.5	248.5	248.5	262.7	277.0	332.4	386.2
85°	117.1	137.7	156.7	163.0	169.4	172.5	174.1	180.4	185.2	224.7	262.7
87.5°	36.4	53.8	69.6	72.8	76.0	82.3	88.6	90.2	90.2	117.1	144.0
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: P320492
 CATALOG NUMBER: GLEON-SA8C-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: P320492
 CATALOG NUMBER: GLEON-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4	12060.4
2.5°	11865.7	12027.1	12215.5	12402.2	12562.1	12721.9	12854.9
5°	10545.7	10870.2	11267.4	11663.1	12016.0	12369.0	12778.9
7.5°	8887.0	9306.4	9820.8	10335.2	10833.8	11330.7	11960.7
10°	7685.7	8111.5	8655.9	9198.8	9759.1	10317.8	11030.0
12.5°	6922.8	7267.9	7794.9	8322.0	8980.4	9637.2	10322.5
15°	6419.5	6796.2	7309.0	7821.8	8542.0	9262.1	10050.3
17.5°	5883.0	6375.2	7032.0	7688.9	8542.0	9393.5	10322.5
20°	5321.1	5933.6	6785.1	7636.6	8785.7	9933.2	11118.6
22.5°	4760.8	5469.9	6562.0	7652.5	9154.5	10654.9	12255.0
25°	4255.9	5074.2	6425.9	7775.9	9691.0	11604.5	13589.3
27.5°	3872.9	4765.6	6370.5	7973.8	10371.6	12769.4	15040.6
30°	3532.6	4441.1	6304.0	8166.9	11026.8	13885.2	16175.5
32.5°	3238.3	4124.6	6175.8	8225.4	11484.3	14743.1	17136.2
35°	3007.2	3877.7	5960.5	8043.4	11770.7	15498.0	18136.4
37.5°	2807.8	3629.2	5715.2	7801.3	12025.5	16249.8	19261.8
40°	2617.8	3363.3	5504.7	7644.6	12376.9	17109.3	20450.4
42.5°	2437.4	3144.9	5335.4	7525.9	12703.0	17878.5	21490.2
45°	2302.9	2977.1	5185.0	7391.3	12913.5	18435.6	22273.7
47.5°	2236.4	2877.4	5104.3	7329.6	13124.0	18916.7	22924.2
50°	2226.9	2860.0	5196.1	7532.2	13579.8	19625.8	23668.1
52.5°	2225.3	2888.5	5460.4	8032.3	14426.5	20819.2	24473.7
55°	2192.1	2905.9	5775.4	8643.3	15562.9	22481.0	25921.9
57.5°	2090.8	2845.7	6099.8	9352.3	16764.2	24174.5	27553.7
60°	1934.1	2700.1	6367.3	10032.9	17571.4	25108.4	28182.0
62.5°	1737.8	2445.3	6455.9	10465.0	17549.3	24633.5	27548.9
65°	1570.1	2177.8	6164.7	10150.0	16661.3	23171.1	26297.0
67.5°	1421.3	1910.3	5436.7	8961.4	15064.4	21165.8	24704.8
70°	1313.7	1734.7	4498.1	7261.5	13065.4	18867.7	22860.9
72.5°	1245.6	1650.8	3667.2	5682.0	10602.7	15521.8	19554.6
75°	1152.2	1519.4	2877.4	4233.8	8114.6	11995.5	14770.0
77.5°	978.1	1280.4	2168.3	3056.2	5954.2	8850.6	10271.9
80°	755.0	989.2	1490.9	1992.7	4097.7	6202.7	7003.6
82.5°	538.1	690.1	903.7	1117.4	2722.3	4325.6	4392.1
85°	332.4	402.0	517.6	633.1	1801.1	2969.2	2473.8
87.5°	178.8	213.7	273.8	332.4	576.1	819.9	471.7
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: P320492
 CATALOG NUMBER: GLEON-SA8C-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.

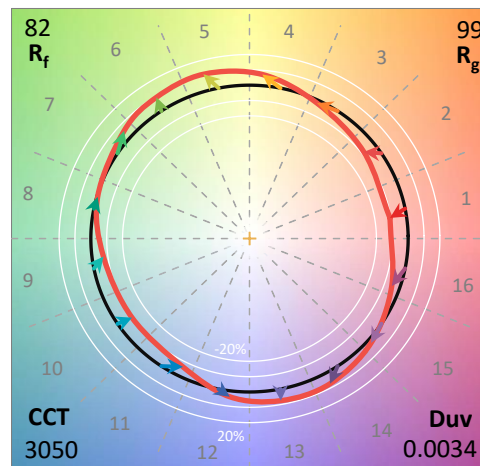
Test Information

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

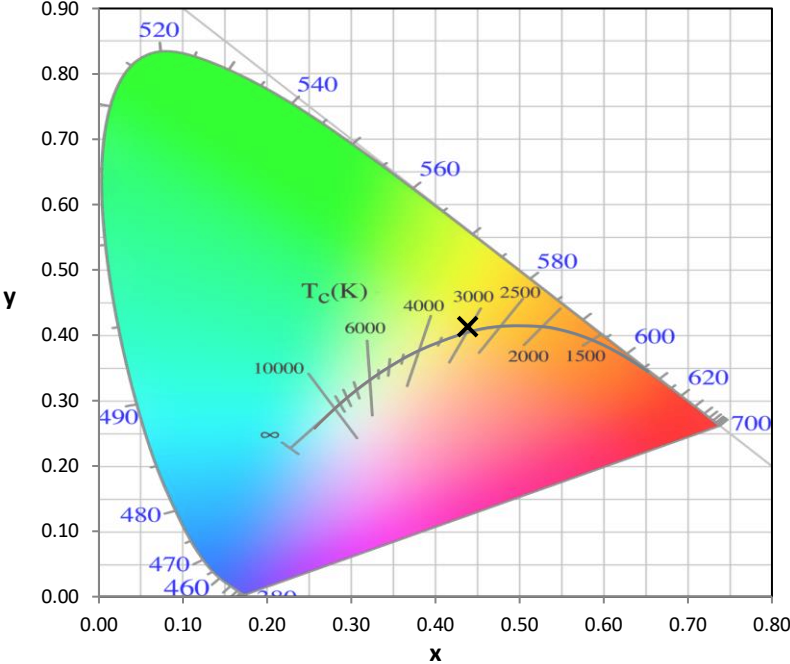
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

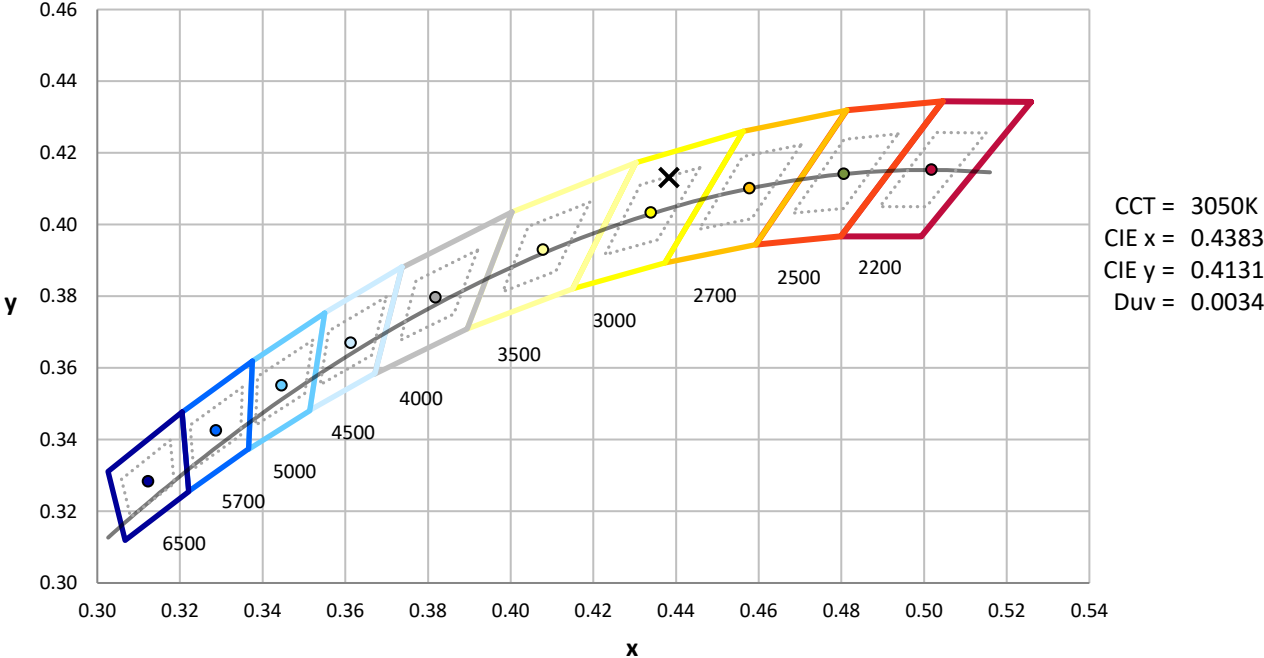
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



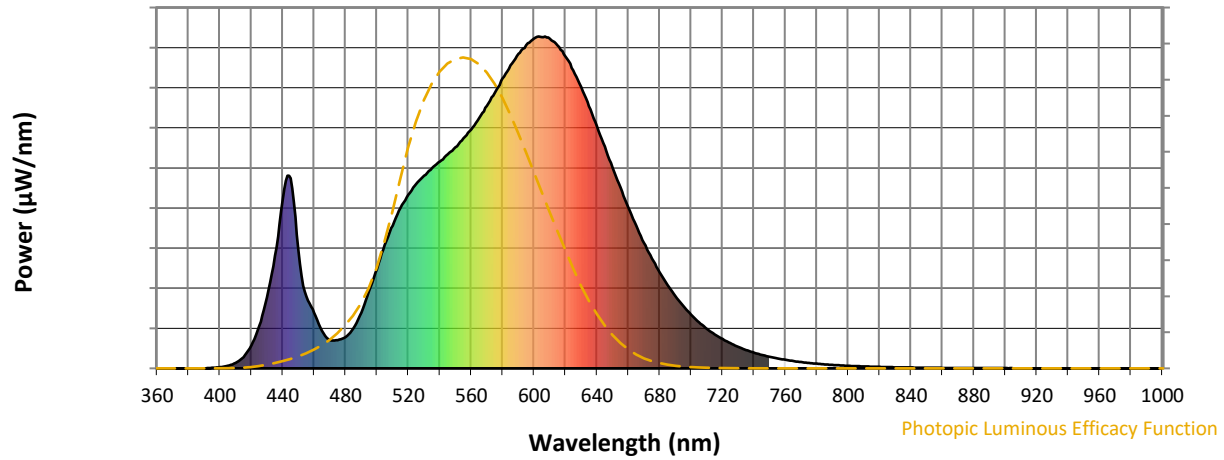
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

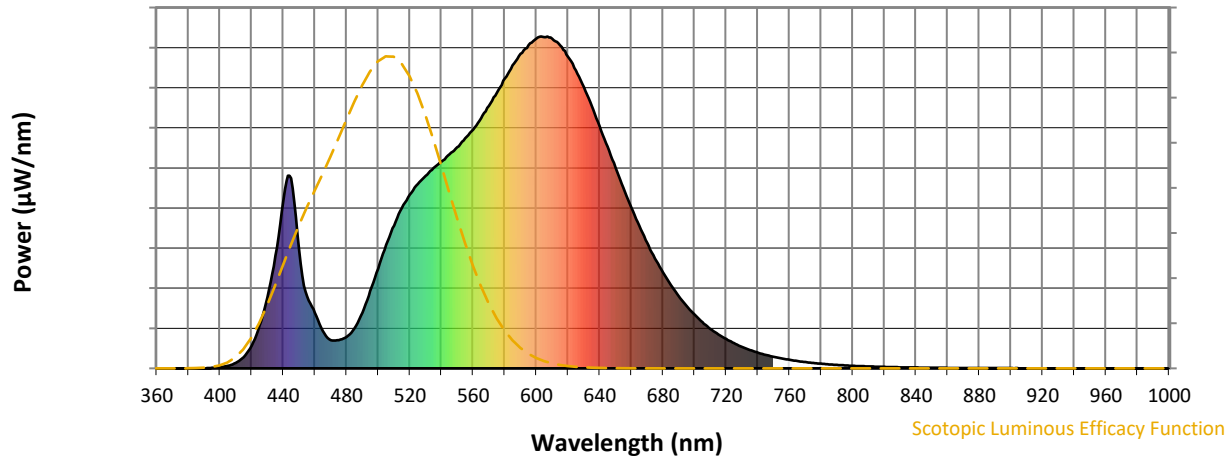


Photopic Lumens: NR

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



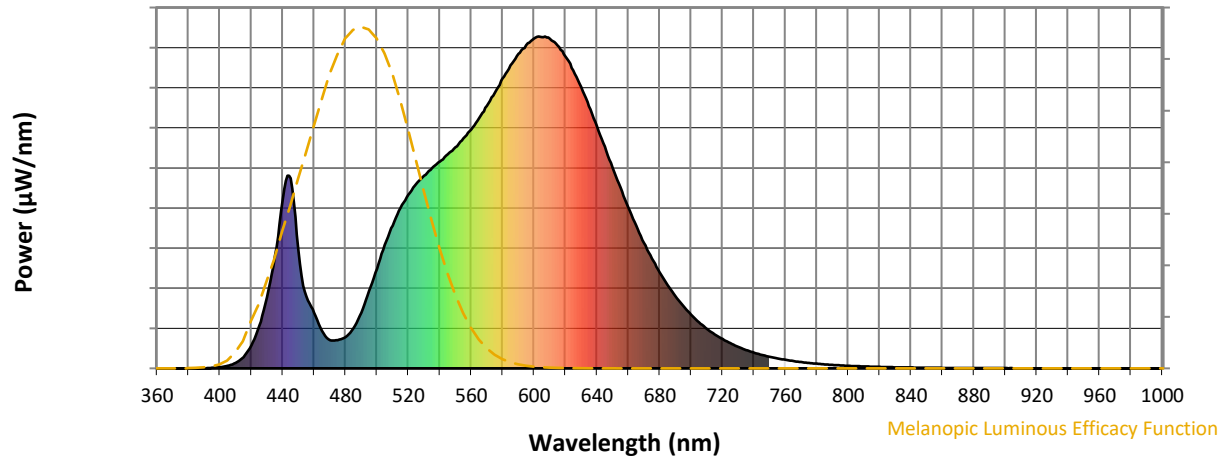
Scotopic Lumens: NR

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



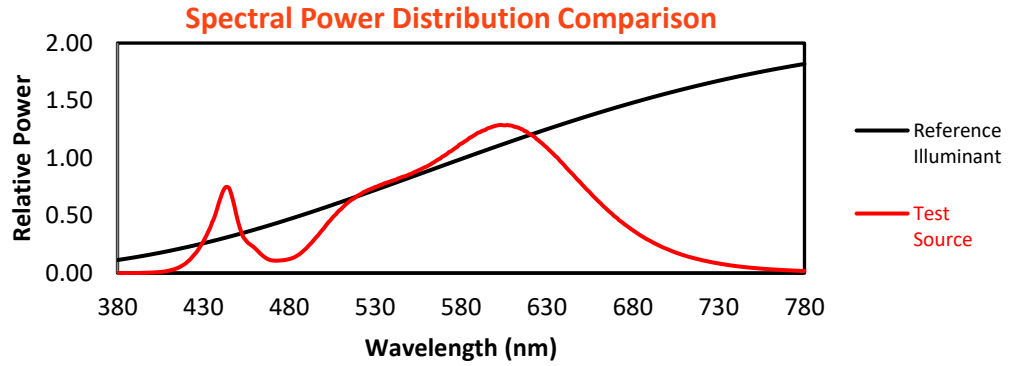
Melanopic Lumens: NR

M/P: 2.32

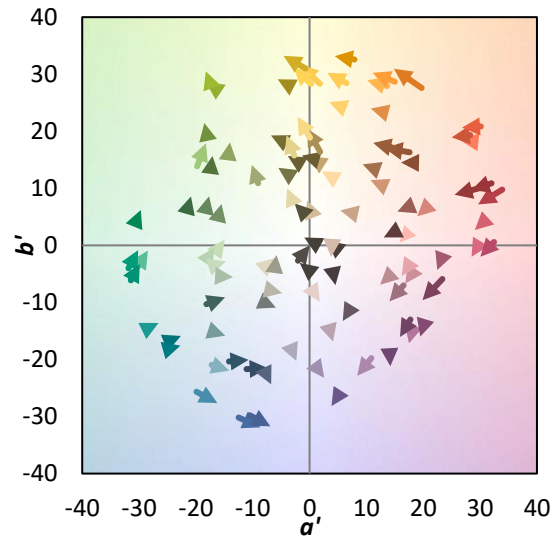
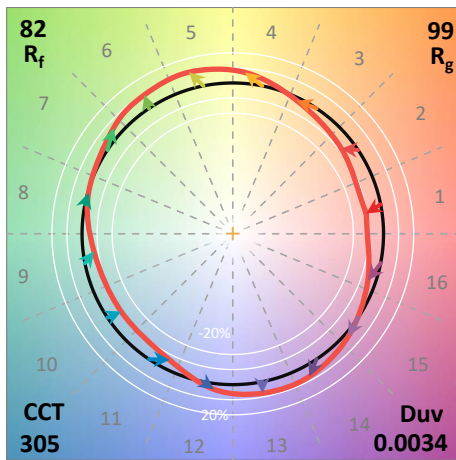
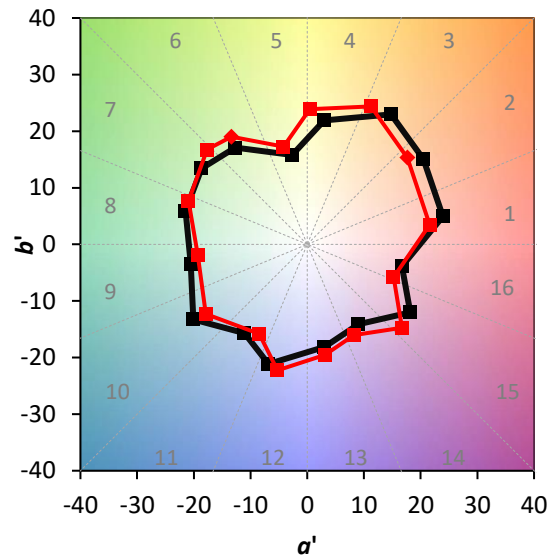
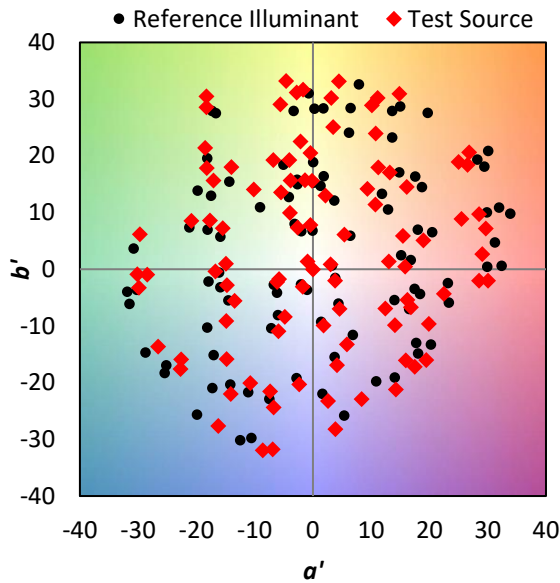
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

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

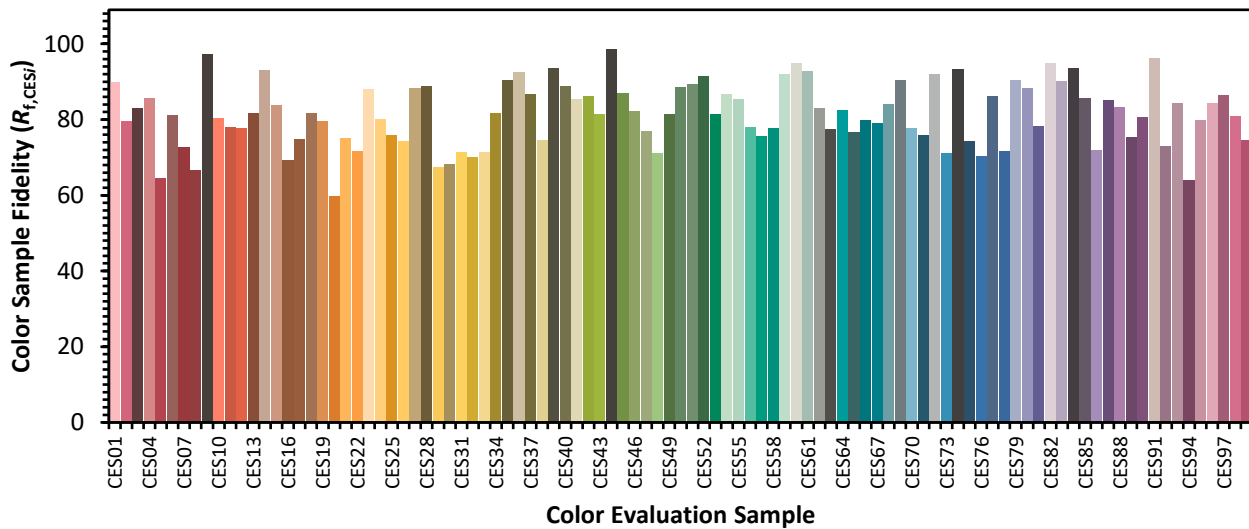


Color Vector Graphics

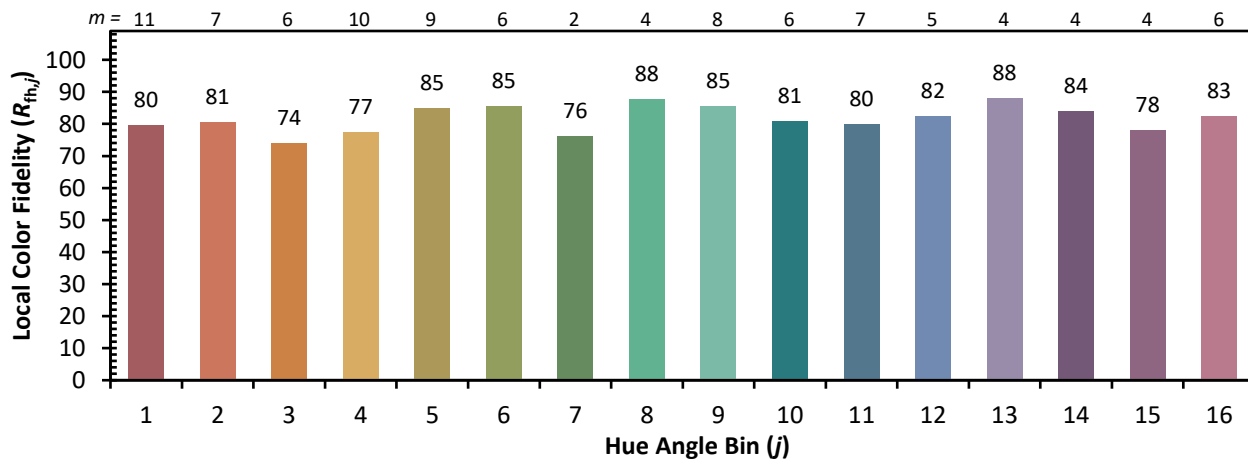
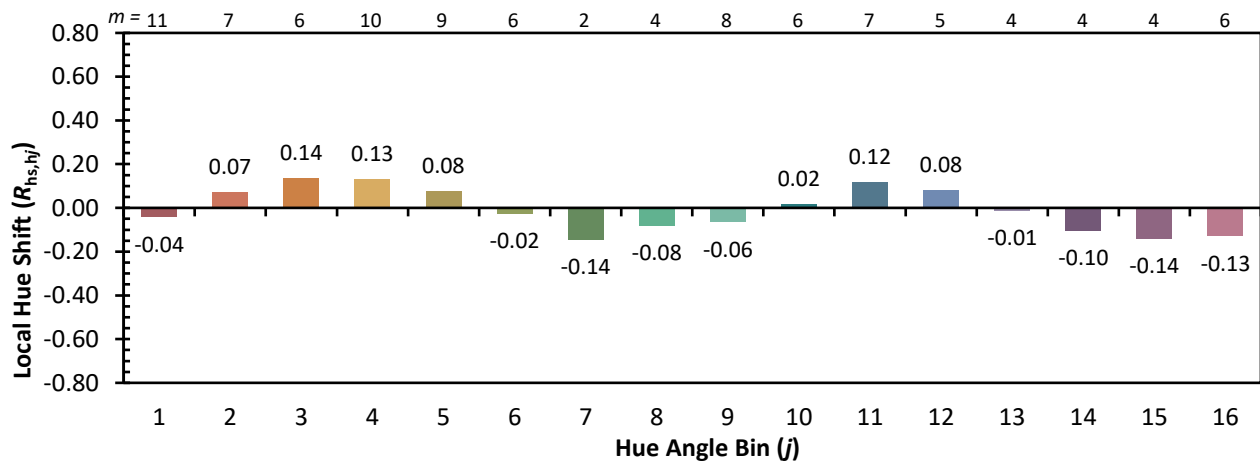
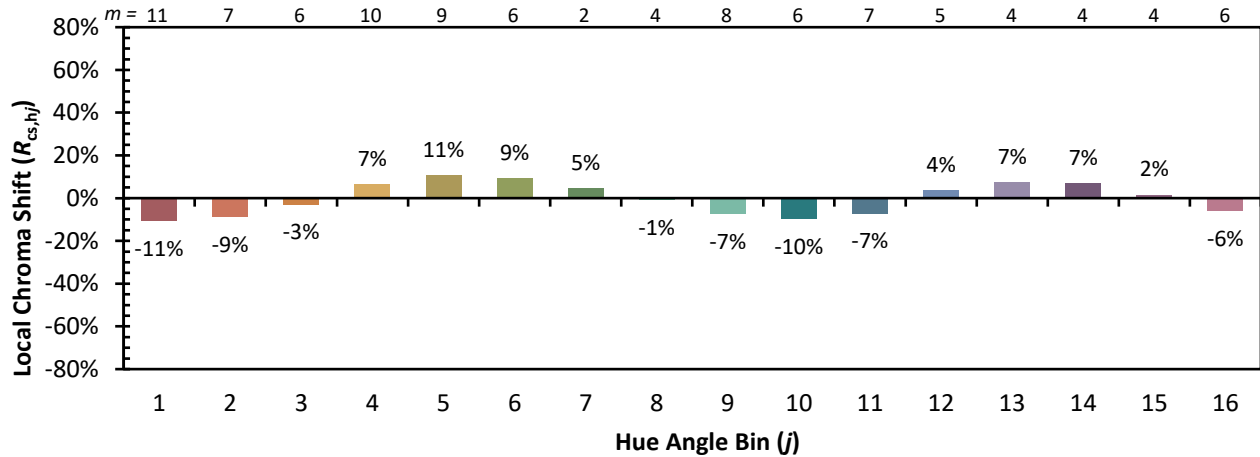


Individual Sample Fidelity Index ($R_{f,i}$)

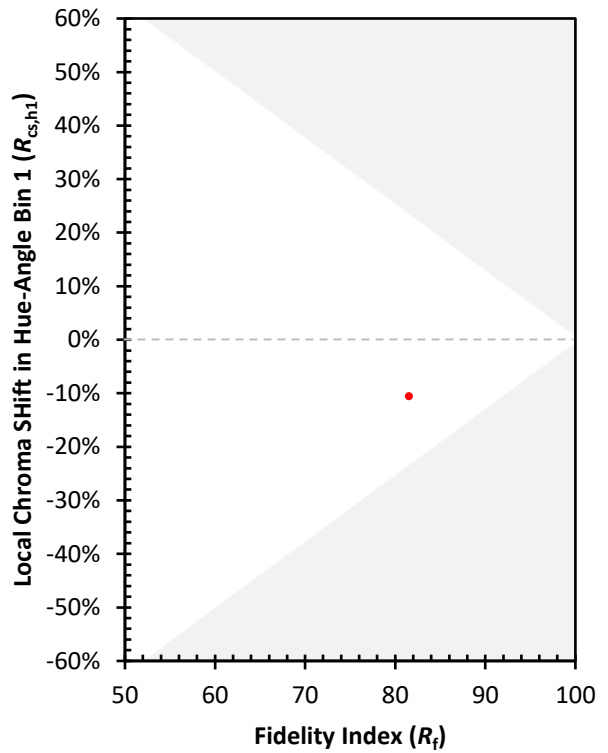
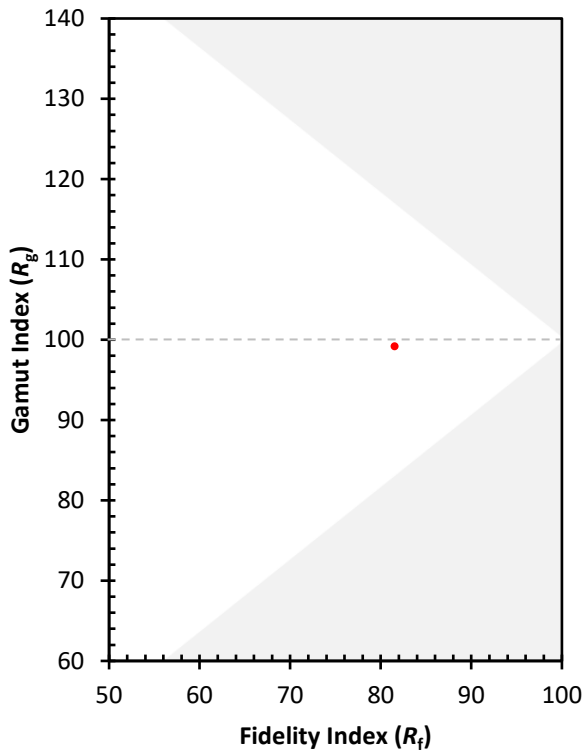
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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