

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: P320499

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 27082 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

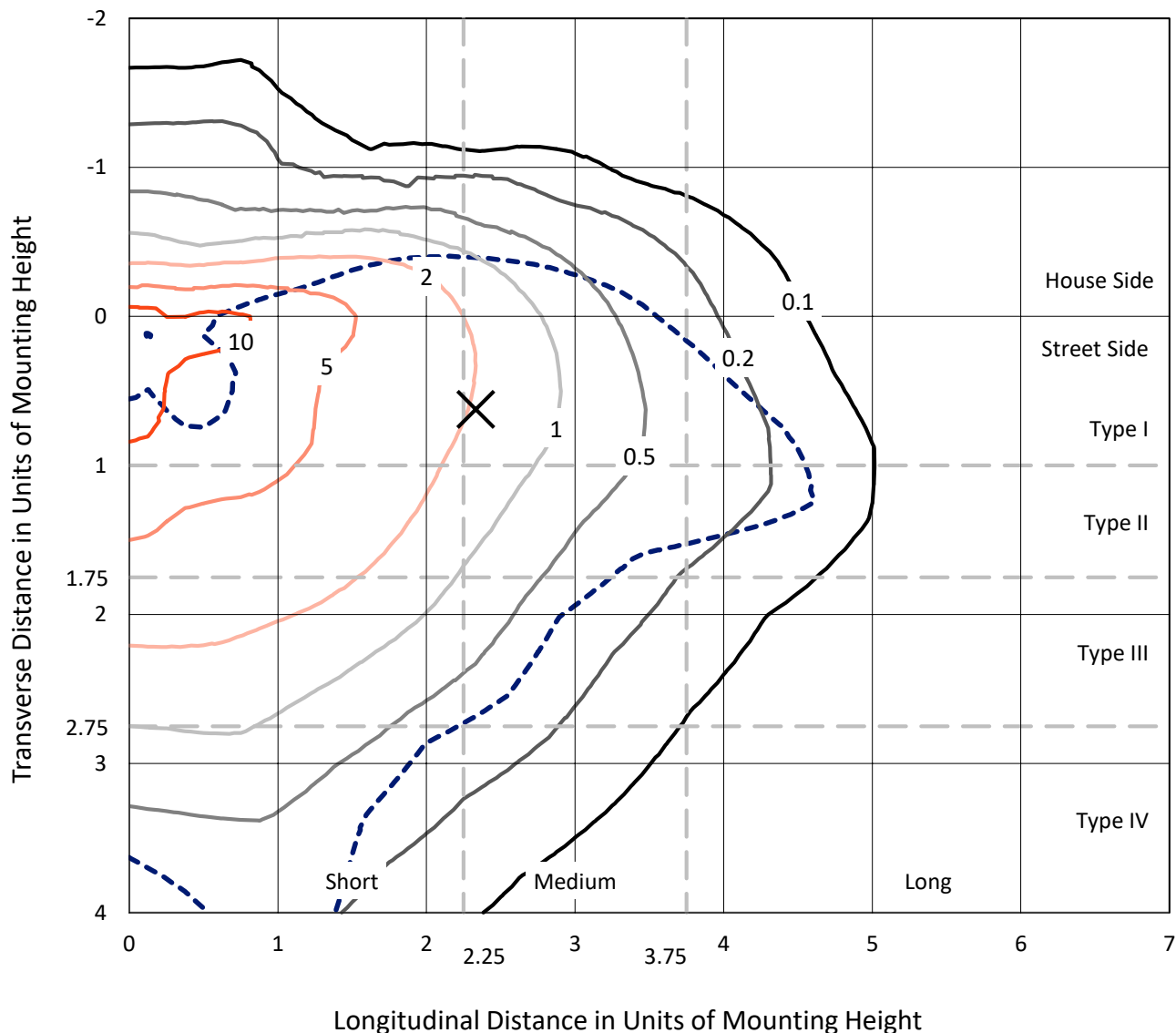
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

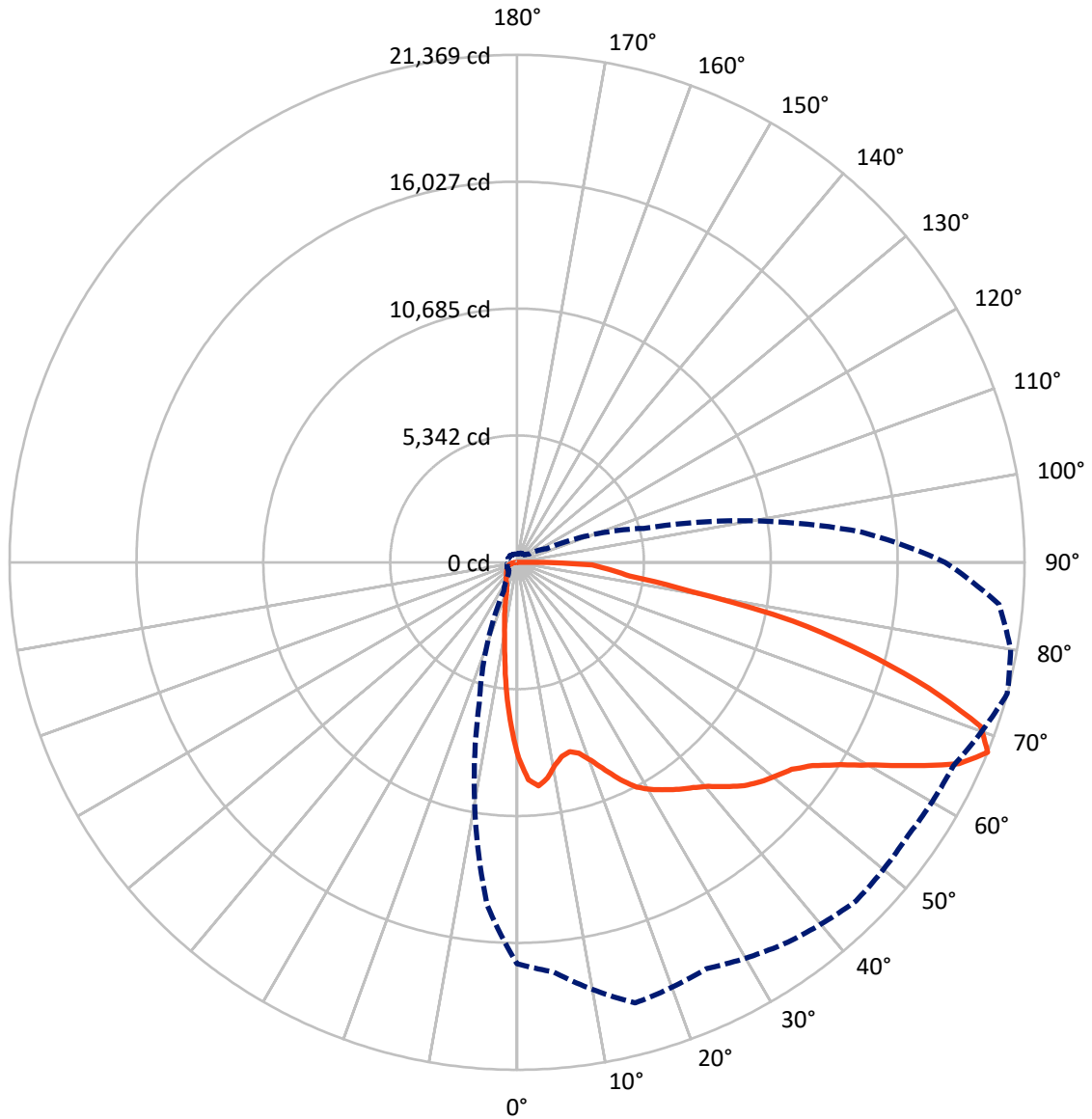
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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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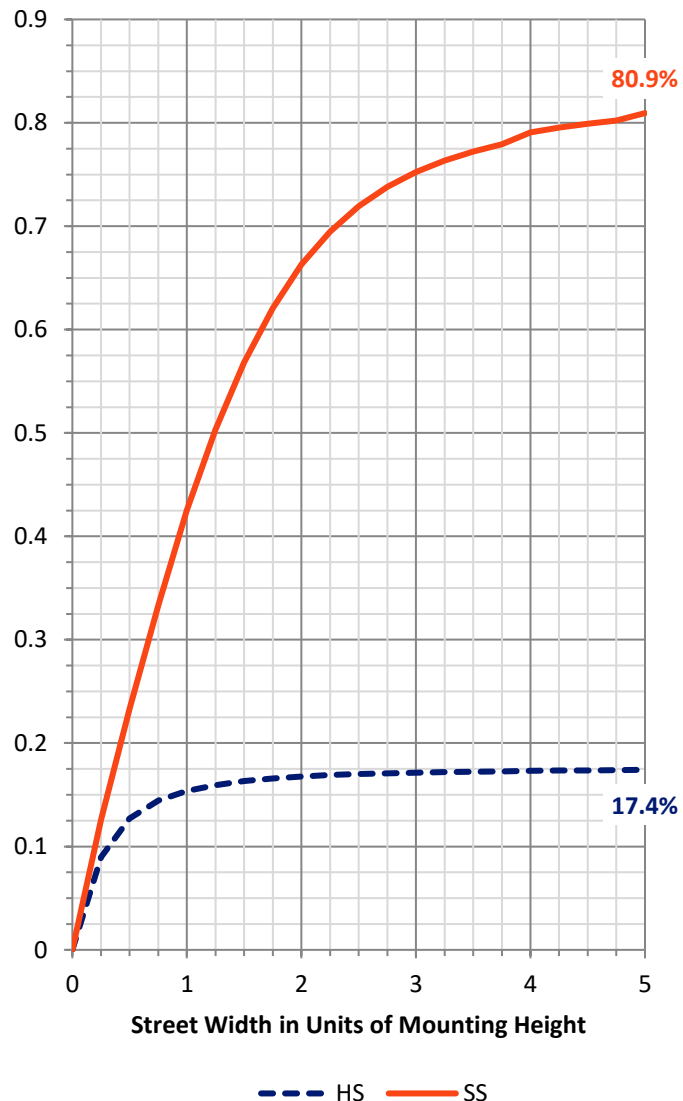
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4769.8	0.0	4769.8
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	22312.2	0.0	22312.2
	% Fixture	82.4	0.0	82.4
Total	Lumens	27082.0	0.0	27082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.8	2.4
10°-20°	1322.8	4.9
20°-30°	1881.3	6.9
30°-40°	2711.0	10.0
40°-50°	3820.6	14.1
50°-60°	5311.2	19.6
60°-70°	6422.9	23.7
70°-80°	3948.0	14.6
80°-90°	1027.3	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	27082.0	100.0
0°-180°	27082.0	100.0

Coefficient of Utilization



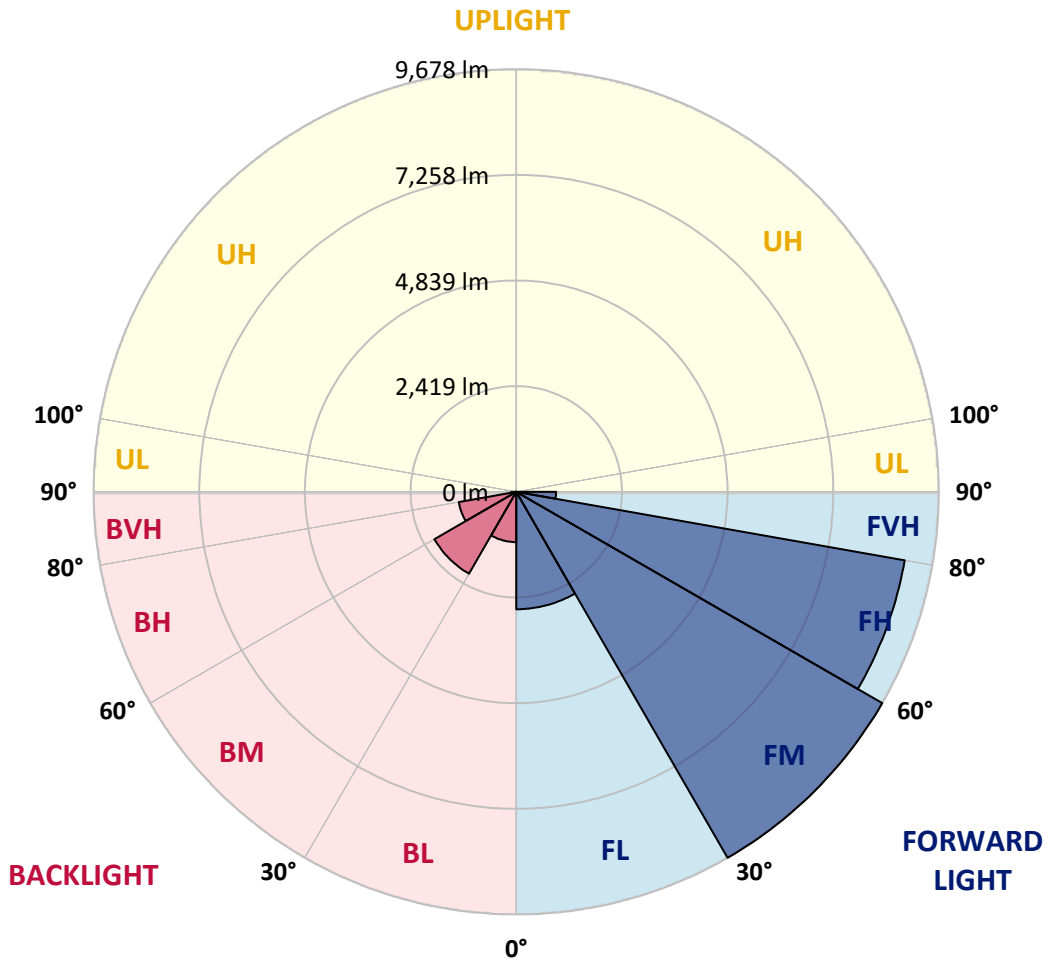
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.0	9.9			
FM (30°-60°)	9677.7	35.7			
FH (60°-80°)	9033.6	33.4			G4/12000
FVH (80°-90°)	911.9	3.4			G5
BL (0°-30°)	1152.0	4.3	B3/2500		
BM (30°-60°)	2165.1	8.0	B2/2500		
BH (60°-80°)	1337.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	115.4	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°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	8794.2	8910.1	8990.2	9069.2	9130.9	9191.6	9280.4	9369.2	9386.5	9402.7	9368.1
5°	8742.2	9024.8	9265.2	9504.5	9726.5	9948.4	10081.6	10214.8	10241.9	10268.9	10185.6
7.5°	8182.4	8599.3	9016.2	9433.0	9815.3	10197.5	10430.3	10662.0	10715.0	10767.0	10630.6
10°	7545.8	8030.9	8543.0	9055.2	9558.6	10062.1	10398.9	10735.6	10802.7	10869.9	10699.9
12.5°	7061.8	7591.3	8138.1	8684.8	9216.5	9747.0	10095.7	10444.3	10527.7	10611.1	10487.6
15°	6875.5	7455.9	7970.2	8484.5	8948.0	9410.3	9696.1	9980.9	10015.6	10049.1	10029.6
17.5°	7061.8	7701.7	8167.3	8631.8	8884.1	9135.3	9250.0	9363.7	9401.6	9438.4	9488.3
20°	7606.4	8297.2	8625.3	8952.3	8941.5	8929.6	8874.3	8818.0	8808.3	8798.5	8939.3
22.5°	8383.8	9186.2	9317.2	9447.1	9142.9	8838.6	8653.4	8467.2	8430.4	8392.5	8541.9
25°	9296.6	10150.9	10127.1	10102.2	9522.9	8942.5	8589.6	8236.6	8195.4	8154.3	8282.1
27.5°	10289.5	11105.9	10950.0	10794.1	10006.9	9219.7	8707.6	8195.4	8154.3	8113.1	8225.8
30°	11065.8	11806.5	11556.3	11306.2	10415.1	9524.0	8915.5	8307.0	8239.8	8171.6	8310.2
32.5°	11723.1	12353.2	12017.6	11681.9	10746.4	9810.9	9152.6	8494.3	8389.3	8284.2	8469.4
35°	12407.4	12899.0	12426.9	11953.7	11042.0	10129.3	9433.0	8735.7	8606.9	8478.0	8732.5
37.5°	13177.2	13585.4	12907.6	12228.7	11374.4	10520.1	9853.1	9185.1	9053.0	8920.9	9245.7
40°	13990.4	14330.4	13426.3	12522.2	11738.2	10954.3	10434.6	9913.8	9788.2	9661.5	10055.6
42.5°	14701.8	14949.7	13909.2	12868.6	12176.8	11483.8	11117.8	10750.8	10749.7	10747.5	11147.1
45°	15237.7	15453.2	14312.0	13169.7	12604.5	12038.2	11847.6	11657.0	11809.7	11962.4	12324.0
47.5°	15682.7	15828.9	14649.8	13469.6	13093.9	12718.1	12746.3	12774.4	13085.2	13396.0	13628.7
50°	16191.6	16073.6	14956.2	13837.7	13721.9	13606.0	13859.4	14111.7	14469.0	14825.2	14983.3
52.5°	16742.8	16429.9	15372.0	14313.1	14443.0	14572.9	15088.3	15603.7	15964.3	16324.8	16384.4
55°	17733.5	17253.8	16136.4	15017.9	15268.0	15517.1	16273.9	17029.7	17311.2	17592.7	17614.4
57.5°	18849.8	18424.3	17207.3	15990.3	16258.8	16527.3	17401.1	18273.8	18578.1	18881.2	18839.0
60°	19279.7	19300.3	18224.0	17146.6	17417.3	17688.0	18539.1	19390.1	19739.9	20088.5	19995.4
62.5°	18846.6	19354.4	18779.5	18203.4	18449.2	18693.9	19527.6	20361.4	20719.8	21078.2	20915.7
65°	17990.1	18493.6	18751.3	19009.0	19090.2	19171.4	19949.9	20727.3	21002.4	21276.3	21194.0
67.5°	16900.9	17308.0	18258.6	19208.2	19044.7	18881.2	19246.1	19611.0	19893.6	20176.2	20129.7
70°	15639.4	16124.5	17392.4	18660.3	17856.9	17052.4	16901.9	16751.4	17056.8	17361.0	17172.6
72.5°	13377.5	14109.5	15461.9	16813.2	15333.0	13852.9	13338.6	12824.3	13210.8	13597.3	13297.4
75°	10104.3	11075.6	12569.8	14062.9	12296.9	10531.0	9844.5	9158.0	9490.4	9822.8	9617.1
77.5°	7027.1	8245.2	9716.7	11188.2	9393.0	7596.7	7086.7	6575.6	6675.2	6773.8	6739.1
80°	4791.2	5592.5	6618.9	7644.3	6448.9	5253.6	5293.6	5332.6	5286.1	5238.4	5307.7
82.5°	3004.7	3568.8	4361.4	5152.9	4518.4	3883.9	4247.7	4611.5	4432.8	4253.1	4320.2
85°	1692.4	2036.7	2811.9	3586.1	3342.5	3097.8	3311.1	3523.3	3246.1	2968.9	3091.3
87.5°	322.7	537.1	1555.9	2573.7	2336.6	2099.5	1824.5	1549.4	1182.4	815.3	1191.0
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°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	9333.4	9315.0	9296.6	9230.6	9163.4	9063.8	8981.5	8838.6	8760.6	8642.6	8524.6
5°	10101.1	9984.2	9867.2	9665.8	9463.4	9238.1	8979.4	8692.4	8475.9	8194.4	7912.8
7.5°	10494.1	10221.3	9947.3	9560.8	9173.2	8824.5	8415.2	8034.1	7709.3	7343.3	6977.3
10°	10529.9	10120.6	9710.2	9207.8	8704.3	8281.0	7810.0	7386.6	6996.8	6576.7	6155.5
12.5°	10363.1	9927.9	9491.5	8938.2	8383.8	7903.1	7396.4	6922.1	6490.1	6027.7	5564.3
15°	10010.1	9662.6	9313.9	8795.3	8276.6	7791.6	7300.0	6738.0	6249.7	5776.5	5302.3
17.5°	9537.0	9372.4	9206.7	8832.1	8456.4	8036.3	7559.9	6900.5	6328.8	5814.4	5300.1
20°	9079.0	9139.6	9199.2	9049.7	8900.3	8563.6	8147.8	7407.2	6677.4	6005.0	5331.5
22.5°	8690.3	8981.5	9271.7	9387.6	9502.3	9299.9	8975.0	8118.6	7152.7	6274.6	5396.5
25°	8408.7	8891.7	9374.6	9760.0	10144.4	10054.5	9804.4	8982.6	7782.9	6663.3	5542.7
27.5°	8338.4	8930.6	9522.9	10120.6	10717.2	10800.6	10731.3	9893.2	8534.3	7146.2	5757.1
30°	8448.8	9048.7	9647.4	10375.0	11101.6	11434.0	11527.1	10652.2	9393.0	7709.3	6024.5
32.5°	8654.5	9242.5	9830.4	10623.0	11414.5	11916.9	12213.6	11346.3	9991.7	8133.7	6274.6
35°	8986.9	9537.0	10087.0	10912.1	11737.2	12386.8	12928.2	12063.1	10523.4	8430.4	6336.3
37.5°	9569.5	10042.6	10515.8	11278.1	12039.2	12881.6	13694.8	12852.4	11098.3	8716.2	6333.1
40°	10449.8	10784.3	11117.8	11762.1	12405.2	13465.2	14563.2	13732.7	11733.9	9025.9	6317.9
42.5°	11546.6	11718.7	11889.8	12399.8	12909.8	14074.8	15351.4	14593.5	12340.3	9313.9	6287.6
45°	12684.6	12730.1	12775.5	13097.1	13417.6	14557.8	15888.5	15239.9	12869.7	9564.1	6257.3
47.5°	13860.5	13704.5	13548.6	13676.4	13804.2	14928.1	16271.8	15730.4	13401.4	9841.2	6280.0
50°	15141.4	14707.2	14273.0	14205.9	14138.7	15298.4	16723.3	16354.1	14040.2	10245.1	6450.0
52.5°	16442.8	15727.1	15011.4	14746.2	14479.8	15740.1	17322.1	17130.4	14951.9	10870.9	6788.9
55°	17636.1	16725.4	15814.8	15457.5	15100.2	16415.8	18052.9	18270.6	16120.2	11671.1	7221.0
57.5°	18795.7	17763.8	16731.9	16400.6	16069.3	17408.7	18978.7	19293.8	17300.4	12438.8	7576.1
60°	19902.3	18881.2	17859.1	17593.8	17327.5	18643.0	19979.2	19749.6	17908.9	12798.3	7686.5
62.5°	20753.3	19941.3	19129.2	18989.5	18848.7	19891.4	20747.9	19572.0	17522.4	12444.2	7366.0
65°	21111.7	20649.4	20186.0	20317.0	20446.9	20835.6	20939.6	19052.3	16307.5	11452.4	6597.3
67.5°	20082.0	20176.2	20270.4	20820.5	21369.4	21102.0	20370.0	18028.0	14578.3	10047.0	5515.6
70°	16983.1	17548.3	18112.5	19414.0	20714.3	20121.0	18844.4	16189.5	12497.3	8428.2	4358.1
72.5°	12996.4	13632.0	14266.5	16198.1	18128.7	17581.9	16018.4	13297.4	10019.9	6730.5	3439.9
75°	9410.3	10128.2	10845.0	12975.8	15106.7	14347.7	11981.9	9520.7	7610.7	5137.7	2663.6
77.5°	6703.4	7184.1	7664.9	9769.8	11873.6	10637.1	7975.6	6406.7	5267.6	3571.0	1873.2
80°	5377.0	5229.7	5082.5	6255.1	7427.8	7222.0	5275.2	4114.5	3645.7	2392.9	1140.2
82.5°	4386.3	4026.8	3667.3	4219.5	4771.7	4741.4	3660.8	3018.7	2713.4	1663.1	612.8
85°	3212.6	3068.6	2924.5	3412.9	3901.2	3484.3	2479.5	1918.7	2115.7	1224.6	333.5
87.5°	1566.8	1789.8	2011.8	2587.8	3162.8	2374.5	752.5	372.5	515.4	338.9	161.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320499
 CATALOG NUMBER: GLEON-SA5D-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: P320499
 CATALOG NUMBER: GLEON-SA5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	8436.9	8348.1	8247.4	8146.7	8031.9	7916.1	7847.9	7778.6	7703.9	7629.2	7544.7
5°	7726.6	7540.4	7329.2	7118.1	6909.1	6700.1	6587.5	6474.9	6355.8	6235.6	6131.7
7.5°	6706.6	6434.9	6142.5	5849.1	5589.2	5328.3	5166.9	5004.5	4857.3	4708.9	4584.4
10°	5809.0	5462.5	5169.1	4874.6	4678.6	4482.6	4334.3	4186.0	4043.0	3899.0	3761.5
12.5°	5217.8	4871.4	4685.1	4498.9	4336.5	4174.1	4003.0	3830.8	3634.8	3437.8	3293.8
15°	4987.2	4672.1	4465.3	4257.4	4039.8	3821.1	3611.0	3401.0	3169.2	2937.5	2774.0
17.5°	4887.6	4475.1	4186.0	3895.8	3608.9	3321.9	3078.3	2834.7	2581.3	2327.9	2162.3
20°	4782.6	4233.6	3846.0	3457.3	3089.1	2721.0	2444.9	2168.8	1942.5	1716.2	1589.5
22.5°	4687.3	3977.0	3490.8	3003.6	2568.3	2133.0	1862.4	1590.6	1452.0	1313.4	1262.5
25°	4648.3	3752.9	3155.2	2557.5	2098.4	1638.2	1445.5	1252.8	1199.7	1145.6	1119.6
27.5°	4654.8	3552.5	2872.6	2191.5	1777.9	1364.3	1232.2	1100.1	1067.6	1034.0	1017.8
30°	4679.7	3334.9	2606.2	1877.5	1536.4	1195.4	1109.8	1023.2	988.6	953.9	933.3
32.5°	4707.9	3140.0	2400.5	1659.9	1381.6	1102.3	1031.9	960.4	926.8	893.3	872.7
35°	4659.1	2980.8	2259.7	1538.6	1282.0	1024.3	964.7	904.1	867.3	830.5	811.0
37.5°	4576.8	2820.6	2150.4	1479.1	1217.0	953.9	910.6	866.2	828.3	789.3	770.9
40°	4502.1	2685.3	2069.2	1452.0	1181.3	909.5	872.7	835.9	796.9	756.9	735.2
42.5°	4441.5	2594.3	1989.0	1383.8	1148.8	912.8	860.8	807.7	769.8	731.9	708.1
45°	4396.0	2534.7	1926.2	1317.7	1118.5	919.3	853.2	787.2	749.3	710.3	682.1
47.5°	4391.7	2503.3	1881.8	1260.3	1061.1	860.8	833.7	806.7	751.4	695.1	662.7
50°	4451.2	2452.5	1829.9	1206.2	1005.9	805.6	842.4	878.1	783.9	688.6	647.5
52.5°	4575.8	2362.6	1747.6	1132.6	938.8	743.9	801.2	857.5	776.3	694.1	641.0
55°	4726.3	2230.5	1623.1	1014.5	850.0	684.3	735.2	785.0	734.1	682.1	618.3
57.5°	4820.5	2063.7	1466.1	868.4	750.4	632.3	661.6	689.7	669.1	648.6	583.6
60°	4764.2	1841.8	1289.6	736.3	662.7	589.0	583.6	577.1	607.4	637.7	563.0
62.5°	4489.1	1612.2	1133.7	655.1	599.9	543.5	531.6	518.6	568.5	617.2	538.1
65°	4024.6	1452.0	1035.1	618.3	556.5	494.8	481.8	468.8	484.0	499.2	462.3
67.5°	3434.5	1353.5	978.8	604.2	529.5	453.7	438.5	423.4	420.1	416.9	403.9
70°	2826.0	1292.8	942.0	591.2	500.2	408.2	394.1	380.1	375.7	370.3	360.6
72.5°	2362.6	1285.2	937.7	590.1	476.4	362.7	349.7	336.7	331.3	324.8	317.2
75°	1934.9	1206.2	890.0	573.9	443.9	312.9	301.0	289.1	284.8	279.4	272.9
77.5°	1435.7	998.3	748.2	498.1	380.1	262.0	250.1	237.1	236.0	233.9	228.5
80°	931.2	722.2	534.9	347.6	277.2	205.7	196.0	185.2	186.2	187.3	183.0
82.5°	517.6	421.2	327.0	232.8	189.5	146.2	141.8	136.4	139.7	141.8	136.4
85°	272.9	212.2	175.4	138.6	109.4	80.1	80.1	79.0	83.4	87.7	83.4
87.5°	118.0	74.7	63.9	52.0	29.2	5.4	6.5	6.5	8.7	10.8	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320499
 CATALOG NUMBER: GLEON-SA5D-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: P320499
 CATALOG NUMBER: GLEON-SA5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	7459.2	7380.1	7300.0	7212.3	7228.5	7161.4	7094.3	7052.0	7009.8	6996.8	6983.8
5°	6027.7	5937.9	5846.9	5765.7	5836.1	5788.5	5740.8	5734.3	5726.7	5726.7	5725.7
7.5°	4459.9	4363.5	4266.1	4199.0	4268.3	4259.6	4250.9	4297.5	4344.0	4381.9	4418.8
10°	3624.0	3507.1	3389.0	3289.4	3272.1	3222.3	3171.4	3182.2	3192.0	3233.1	3274.3
12.5°	3149.8	3010.1	2870.4	2753.5	2700.4	2618.1	2534.7	2482.8	2430.8	2436.2	2440.5
15°	2609.5	2474.1	2337.7	2237.0	2203.4	2139.5	2075.7	2010.7	1944.6	1917.6	1889.4
17.5°	1995.5	1887.3	1777.9	1710.8	1710.8	1692.4	1674.0	1641.5	1607.9	1580.8	1552.7
20°	1462.8	1405.4	1347.0	1318.8	1327.5	1328.6	1328.6	1344.8	1361.0	1352.4	1343.7
22.5°	1210.5	1190.0	1169.4	1157.5	1161.8	1162.9	1164.0	1179.1	1193.2	1204.0	1213.8
25°	1092.5	1079.5	1066.5	1062.2	1071.9	1073.0	1073.0	1082.8	1092.5	1103.3	1114.2
27.5°	1000.5	995.1	989.6	982.1	991.8	991.8	990.7	1001.6	1011.3	1021.0	1029.7
30°	912.8	914.9	916.0	913.9	920.3	924.7	927.9	935.5	942.0	949.6	957.2
32.5°	851.1	847.8	844.6	842.4	856.5	864.0	871.6	879.2	885.7	888.9	892.2
35°	791.5	783.9	776.3	770.9	783.9	793.7	803.4	817.5	830.5	832.6	834.8
37.5°	751.4	741.7	731.9	725.5	730.9	735.2	739.5	754.7	769.8	778.5	786.1
40°	713.5	703.8	694.1	688.6	691.9	693.0	694.1	701.6	708.1	724.4	739.5
42.5°	683.2	671.3	659.4	652.9	655.1	657.2	658.3	657.2	656.2	671.3	686.5
45°	652.9	639.9	626.9	619.3	620.4	620.4	620.4	618.3	615.0	622.6	630.2
47.5°	629.1	613.9	598.8	591.2	589.0	586.9	584.7	583.6	581.4	586.9	591.2
50°	605.3	589.0	571.7	563.0	557.6	555.5	553.3	552.2	550.0	555.5	559.8
52.5°	586.9	567.4	547.9	533.8	528.4	525.1	521.9	523.0	523.0	525.1	526.2
55°	554.4	537.1	518.6	508.9	499.2	497.0	494.8	498.1	500.2	500.2	500.2
57.5°	518.6	502.4	485.1	478.6	469.9	469.9	468.8	473.2	476.4	478.6	480.7
60°	487.2	468.8	450.4	445.0	441.8	440.7	439.6	445.0	449.3	453.7	458.0
62.5°	458.0	438.5	419.0	412.5	411.5	412.5	412.5	417.9	422.3	426.6	430.9
65°	425.5	406.0	385.5	379.0	381.1	384.4	387.6	392.0	395.2	399.5	403.9
67.5°	389.8	373.6	356.2	349.7	350.8	355.1	359.5	362.7	364.9	369.2	373.6
70°	350.8	336.7	322.7	318.3	317.2	322.7	327.0	329.2	331.3	336.7	341.1
72.5°	308.6	296.7	284.8	281.5	282.6	285.8	289.1	292.3	294.5	299.9	304.3
75°	265.3	254.4	243.6	241.5	243.6	246.9	250.1	252.3	254.4	260.9	266.4
77.5°	223.0	211.1	198.1	197.1	200.3	203.6	205.7	209.0	212.2	220.9	229.5
80°	178.7	165.7	151.6	150.5	153.8	157.0	160.2	163.5	166.7	177.6	187.3
82.5°	131.0	115.9	100.7	98.5	109.4	112.6	115.9	121.3	125.6	135.3	145.1
85°	79.0	63.9	48.7	47.6	57.4	62.8	68.2	74.7	80.1	88.8	97.4
87.5°	8.7	4.3	0.0	0.0	1.1	5.4	9.7	15.2	20.6	29.2	36.8
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: P320499
 CATALOG NUMBER: GLEON-SA5D-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: P320499
 CATALOG NUMBER: GLEON-SA5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	6936.2	6887.5	6937.3	6986.0	7006.6	7027.1	6974.1	6919.9	7004.4	7087.8	7109.4
5°	5682.3	5637.9	5671.5	5704.0	5631.5	5558.9	5551.3	5542.7	5605.5	5668.3	5678.0
7.5°	4404.7	4390.6	4422.0	4453.4	4361.4	4268.3	4222.8	4177.3	4192.5	4207.6	4205.5
10°	3284.0	3292.7	3331.7	3369.6	3298.1	3226.6	3195.2	3163.8	3198.5	3232.0	3263.4
12.5°	2460.0	2478.4	2519.6	2559.7	2530.4	2500.1	2503.3	2506.6	2546.7	2585.6	2620.3
15°	1911.1	1932.7	1962.0	1990.1	1991.2	1991.2	2019.4	2046.4	2043.2	2039.9	2063.7
17.5°	1581.9	1610.1	1613.3	1616.6	1617.6	1618.7	1616.6	1614.4	1598.2	1581.9	1600.3
20°	1354.5	1364.3	1372.9	1380.5	1370.8	1360.0	1332.9	1305.8	1295.0	1284.2	1301.5
22.5°	1232.2	1249.5	1240.8	1231.1	1211.6	1191.0	1170.5	1148.8	1147.7	1145.6	1155.3
25°	1129.3	1143.4	1128.2	1113.1	1099.0	1084.9	1070.9	1056.8	1055.7	1054.6	1058.9
27.5°	1043.8	1056.8	1042.7	1028.6	1016.7	1004.8	994.0	983.1	981.0	978.8	979.9
30°	970.2	982.1	970.2	957.2	948.5	938.8	931.2	923.6	922.5	921.4	921.4
32.5°	904.1	916.0	907.4	898.7	891.1	883.5	878.1	872.7	867.3	861.9	850.0
35°	846.7	858.6	853.2	846.7	838.1	829.4	819.7	808.8	794.7	779.6	773.1
37.5°	798.0	809.9	804.5	799.1	787.2	775.3	757.9	739.5	735.2	729.8	728.7
40°	759.0	777.4	766.6	754.7	736.3	717.9	709.2	700.5	698.4	696.2	694.1
42.5°	715.7	743.9	724.4	704.9	687.6	670.2	668.1	665.9	664.8	663.7	663.7
45°	661.6	691.9	672.4	651.8	642.1	632.3	632.3	632.3	633.4	633.4	635.6
47.5°	610.7	629.1	619.3	609.6	604.2	598.8	599.9	600.9	604.2	606.3	611.8
50°	567.4	573.9	576.0	577.1	573.9	570.6	572.8	573.9	577.1	579.3	583.6
52.5°	536.0	545.7	545.7	544.6	544.6	544.6	546.8	549.0	552.2	555.5	559.8
55°	515.4	529.5	525.1	520.8	521.9	521.9	524.1	526.2	529.5	531.6	538.1
57.5°	495.9	511.1	506.7	502.4	502.4	502.4	503.5	504.6	507.8	510.0	514.3
60°	473.2	488.3	484.0	478.6	479.7	480.7	481.8	481.8	484.0	485.1	485.1
62.5°	446.1	461.3	456.9	451.5	454.8	456.9	456.9	456.9	459.1	460.2	456.9
65°	417.9	432.0	427.7	423.4	427.7	430.9	433.1	434.2	433.1	432.0	428.8
67.5°	387.6	401.7	397.4	392.0	397.4	401.7	406.0	409.3	406.0	402.8	398.5
70°	355.1	369.2	363.8	358.4	363.8	369.2	373.6	377.9	373.6	369.2	368.1
72.5°	320.5	336.7	330.2	323.7	330.2	336.7	338.9	341.1	337.8	334.6	332.4
75°	282.6	298.8	293.4	286.9	292.3	297.8	298.8	299.9	299.9	298.8	292.3
77.5°	242.5	255.5	252.3	249.0	252.3	255.5	255.5	255.5	256.6	256.6	248.0
80°	194.9	202.5	203.6	204.6	205.7	206.8	205.7	204.6	202.5	200.3	194.9
82.5°	145.1	145.1	153.8	161.3	161.3	160.2	159.2	157.0	152.7	147.3	135.3
85°	92.0	86.6	100.7	113.7	113.7	112.6	110.4	107.2	98.5	88.8	79.0
87.5°	31.4	26.0	40.1	54.1	55.2	55.2	53.1	50.9	42.2	32.5	24.9
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: P320499
 CATALOG NUMBER: GLEON-SA5D-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: P320499
 CATALOG NUMBER: GLEON-SA5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	7141.9	7156.0	7169.0	7275.1	7380.1	7503.6	7627.0	7721.2	7814.3	7910.7	8007.0
5°	5711.6	5728.9	5746.2	5875.1	6002.8	6175.0	6347.2	6495.5	6643.8	6818.2	6992.5
7.5°	4233.6	4271.5	4308.3	4445.8	4582.3	4767.4	4951.5	5145.3	5338.0	5565.4	5792.8
10°	3325.2	3396.6	3467.0	3607.8	3748.5	3931.5	4113.4	4315.9	4518.4	4742.5	4965.6
12.5°	2691.8	2787.0	2881.2	3050.1	3219.1	3437.8	3655.4	3880.6	4104.8	4301.8	4498.9
15°	2126.5	2230.5	2333.4	2512.0	2690.7	2931.0	3170.3	3416.1	3660.8	3896.9	4132.9
17.5°	1658.8	1744.3	1828.8	1980.4	2130.9	2363.7	2596.5	2854.2	3111.9	3399.9	3686.8
20°	1338.3	1374.0	1409.8	1519.1	1627.4	1816.9	2005.3	2268.4	2531.5	2875.8	3220.1
22.5°	1172.6	1191.0	1208.4	1261.4	1313.4	1435.7	1557.0	1789.8	2021.5	2397.2	2771.9
25°	1073.0	1087.1	1101.2	1135.8	1170.5	1228.9	1287.4	1450.9	1614.4	1983.6	2351.8
27.5°	983.1	1004.8	1025.4	1041.6	1056.8	1096.8	1135.8	1243.0	1350.2	1694.5	2037.8
30°	918.2	925.8	933.3	958.2	982.1	1023.2	1064.4	1139.1	1213.8	1505.0	1795.2
32.5°	842.4	853.2	864.0	890.0	916.0	953.9	991.8	1052.4	1112.0	1361.0	1609.0
35°	774.2	785.0	795.8	821.8	846.7	887.9	927.9	978.8	1028.6	1245.2	1461.7
37.5°	731.9	742.8	753.6	776.3	798.0	839.1	879.2	919.3	958.2	1158.6	1358.9
40°	696.2	707.0	717.9	739.5	760.1	800.2	839.1	872.7	906.3	1093.6	1280.9
42.5°	664.8	676.7	688.6	710.3	730.9	766.6	802.3	846.7	890.0	1037.3	1183.5
45°	638.8	650.7	661.6	685.4	709.2	743.9	778.5	840.2	901.9	1008.1	1114.2
47.5°	615.0	628.0	639.9	665.9	691.9	735.2	777.4	829.4	880.3	985.3	1090.3
50°	592.3	607.4	622.6	654.0	684.3	756.9	828.3	835.9	842.4	966.9	1090.3
52.5°	570.6	587.9	605.3	644.2	682.1	766.6	851.1	824.0	795.8	932.3	1068.7
55°	549.0	564.1	578.2	625.8	673.5	735.2	796.9	761.2	724.4	867.3	1010.2
57.5°	519.7	536.0	551.1	602.0	652.9	696.2	738.4	706.0	672.4	793.7	913.9
60°	489.4	507.8	526.2	591.2	655.1	647.5	638.8	632.3	624.8	711.4	798.0
62.5°	462.3	481.8	501.3	585.8	670.2	618.3	566.3	571.7	576.0	639.9	703.8
65°	435.3	454.8	473.2	515.4	557.6	537.1	516.5	525.1	532.7	595.5	658.3
67.5°	405.0	422.3	438.5	452.6	466.7	468.8	471.0	479.7	488.3	563.0	636.7
70°	371.4	385.5	399.5	409.3	417.9	422.3	425.5	436.4	447.2	528.4	609.6
72.5°	333.5	345.4	356.2	364.9	373.6	376.8	379.0	389.8	400.6	487.2	573.9
75°	292.3	302.1	310.8	318.3	325.9	330.2	334.6	342.2	349.7	443.9	537.1
77.5°	246.9	256.6	265.3	271.8	277.2	281.5	284.8	294.5	304.3	383.3	461.3
80°	192.7	204.6	215.5	220.9	225.2	226.3	226.3	235.0	243.6	299.9	355.1
82.5°	136.4	149.4	161.3	165.7	170.0	170.0	170.0	179.7	189.5	227.4	264.2
85°	80.1	94.2	107.2	111.5	115.9	118.0	119.1	123.4	126.7	153.8	179.7
87.5°	24.9	36.8	47.6	49.8	52.0	56.3	60.6	61.7	61.7	80.1	98.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320499
 CATALOG NUMBER: GLEON-SA5D-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: P320499

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7	8250.7
2.5°	8117.5	8227.9	8356.8	8484.5	8593.9	8703.3	8794.2
5°	7214.5	7436.4	7708.2	7978.9	8220.3	8461.8	8742.2
7.5°	6079.7	6366.6	6718.5	7070.4	7411.5	7751.5	8182.4
10°	5257.9	5549.2	5921.6	6293.0	6676.3	7058.5	7545.8
12.5°	4736.0	4972.1	5332.6	5693.2	6143.6	6592.9	7061.8
15°	4391.7	4649.4	5000.2	5351.0	5843.7	6336.3	6875.5
17.5°	4024.6	4361.4	4810.7	5260.1	5843.7	6426.2	7061.8
20°	3640.3	4059.3	4641.8	5224.3	6010.4	6795.4	7606.4
22.5°	3257.0	3742.0	4489.1	5235.2	6262.7	7289.2	8383.8
25°	2911.6	3471.3	4396.0	5319.6	6629.8	7938.8	9296.6
27.5°	2649.5	3260.2	4358.1	5455.0	7095.3	8735.7	10289.5
30°	2416.7	3038.2	4312.6	5587.1	7543.6	9499.1	11065.8
32.5°	2215.3	2821.7	4224.9	5627.1	7856.5	10085.9	11723.1
35°	2057.3	2652.8	4077.7	5502.6	8052.5	10602.4	12407.4
37.5°	1920.8	2482.8	3909.9	5336.9	8226.8	11116.7	13177.2
40°	1790.9	2300.9	3765.9	5229.7	8467.2	11704.7	13990.4
42.5°	1667.5	2151.5	3650.0	5148.5	8690.3	12230.9	14701.8
45°	1575.4	2036.7	3547.1	5056.5	8834.3	12612.0	15237.7
47.5°	1529.9	1968.5	3491.9	5014.3	8978.3	12941.2	15682.7
50°	1523.4	1956.6	3554.7	5152.9	9290.1	13426.3	16191.6
52.5°	1522.4	1976.0	3735.5	5495.0	9869.4	14242.7	16742.8
55°	1499.6	1988.0	3951.0	5913.0	10646.8	15379.6	17733.5
57.5°	1430.3	1946.8	4173.0	6398.0	11468.6	16538.1	18849.8
60°	1323.1	1847.2	4356.0	6863.6	12020.8	17177.0	19279.7
62.5°	1188.9	1672.9	4416.6	7159.2	12005.7	16852.1	18846.6
65°	1074.1	1489.9	4217.4	6943.8	11398.3	15851.7	17990.1
67.5°	972.3	1306.9	3719.3	6130.6	10305.7	14479.8	16900.9
70°	898.7	1186.7	3077.2	4967.7	8938.2	12907.6	15639.4
72.5°	852.1	1129.3	2508.8	3887.1	7253.4	10618.7	13377.5
75°	788.3	1039.5	1968.5	2896.4	5551.3	8206.3	10104.3
77.5°	669.1	876.0	1483.4	2090.8	4073.4	6054.8	7027.1
80°	516.5	676.7	1020.0	1363.2	2803.3	4243.4	4791.2
82.5°	368.1	472.1	618.3	764.4	1862.4	2959.2	3004.7
85°	227.4	275.0	354.1	433.1	1232.2	2031.3	1692.4
87.5°	122.4	146.2	187.3	227.4	394.1	560.9	322.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P320499
 CATALOG NUMBER: GLEON-SA5D-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.

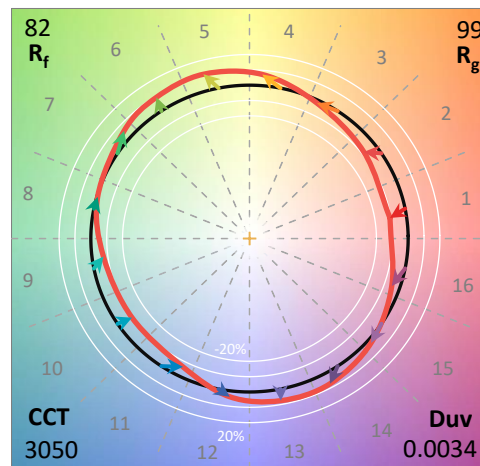
Test Information

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

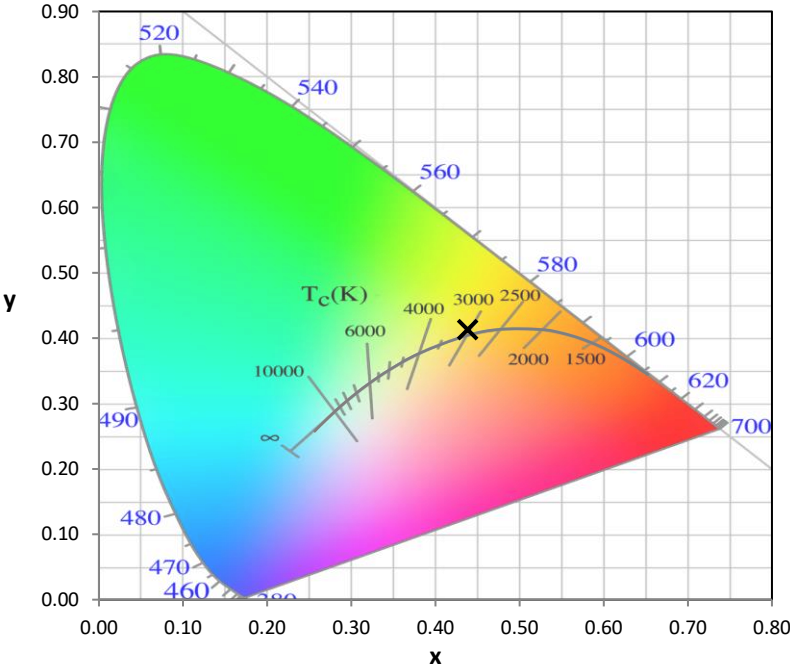
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

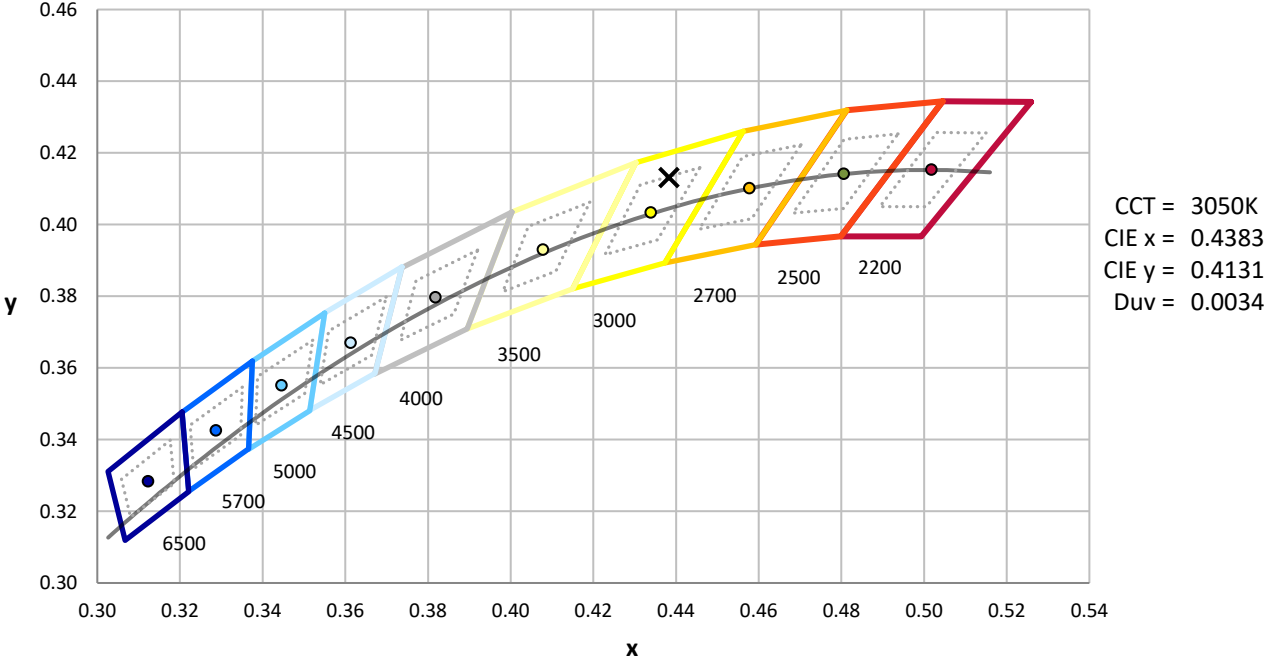
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



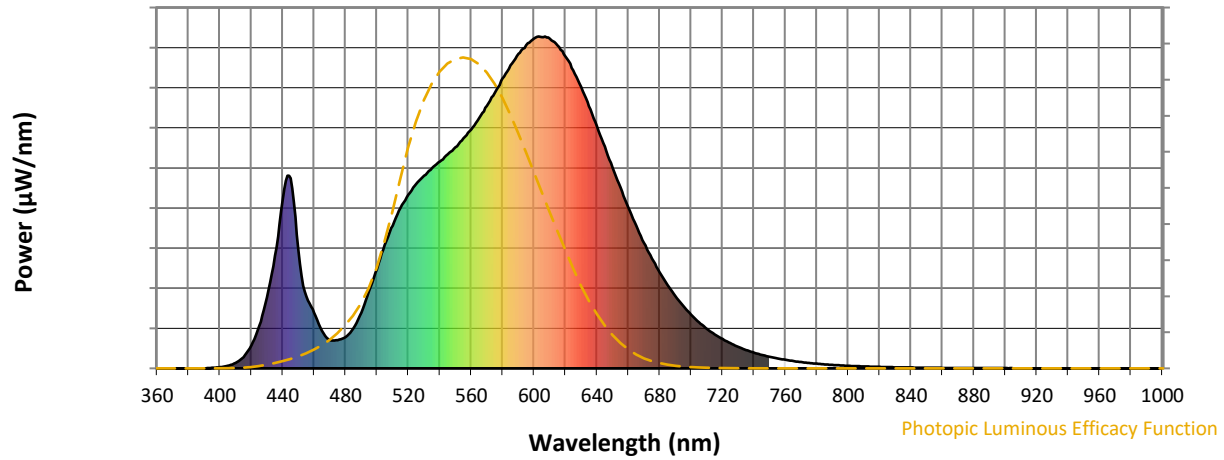
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

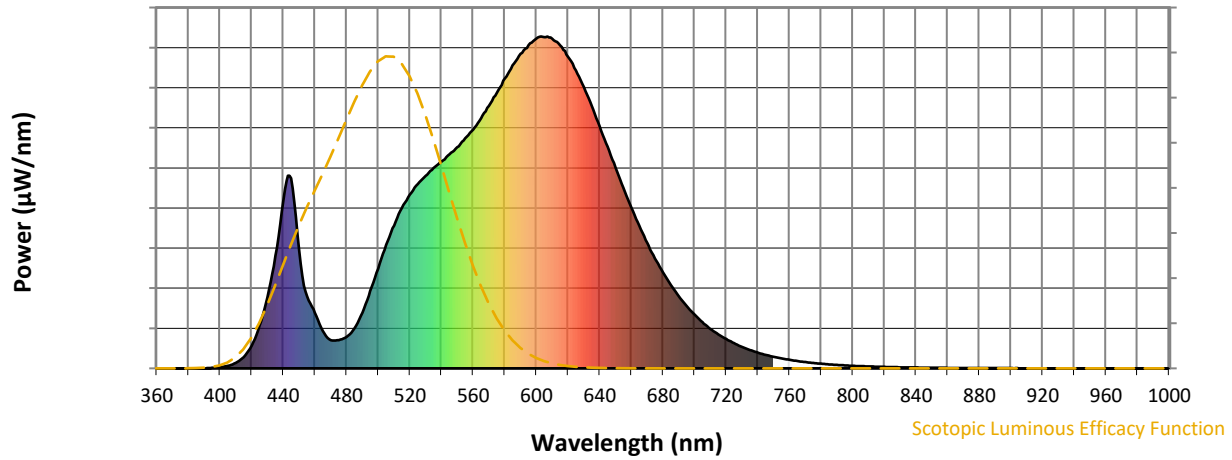


Photopic Lumens: NR

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



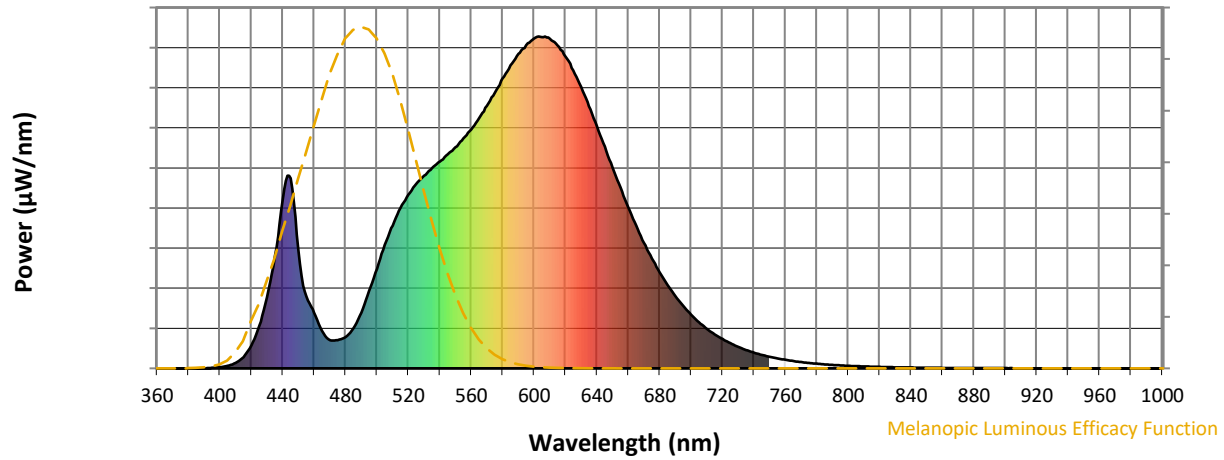
Scotopic Lumens: NR

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



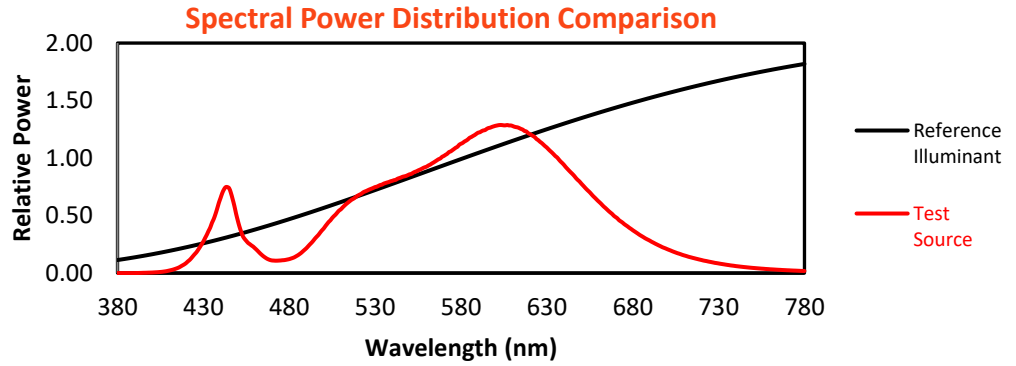
Melanopic Lumens: NR

M/P: 2.32

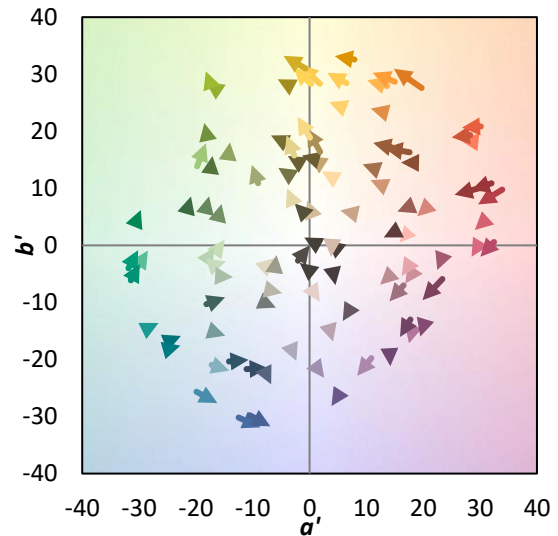
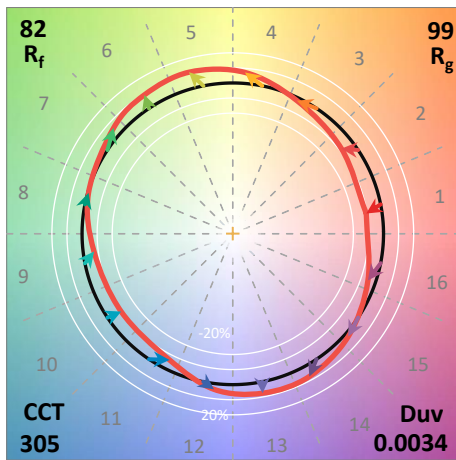
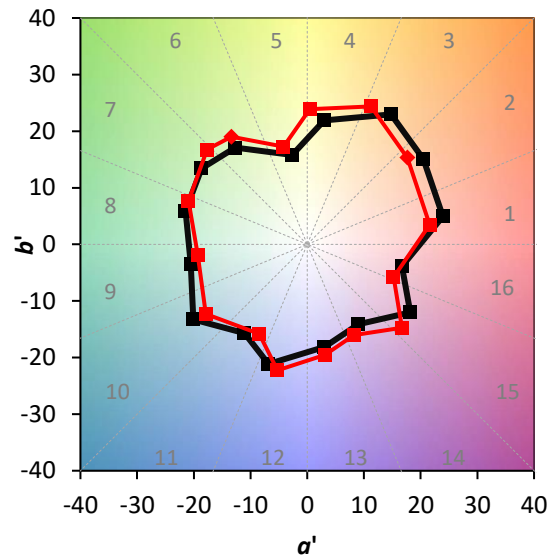
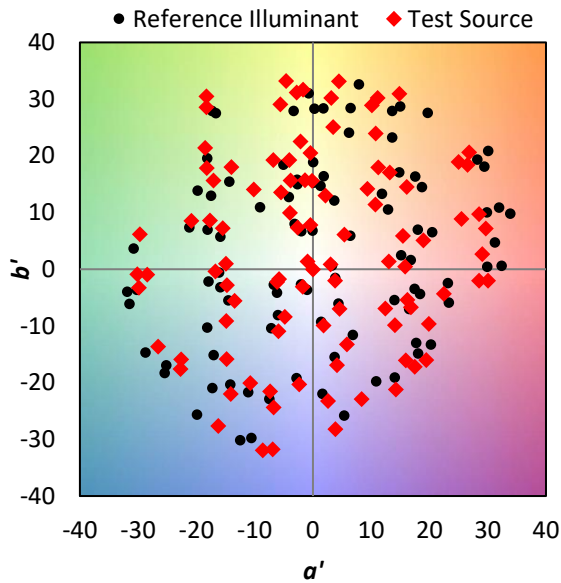
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

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

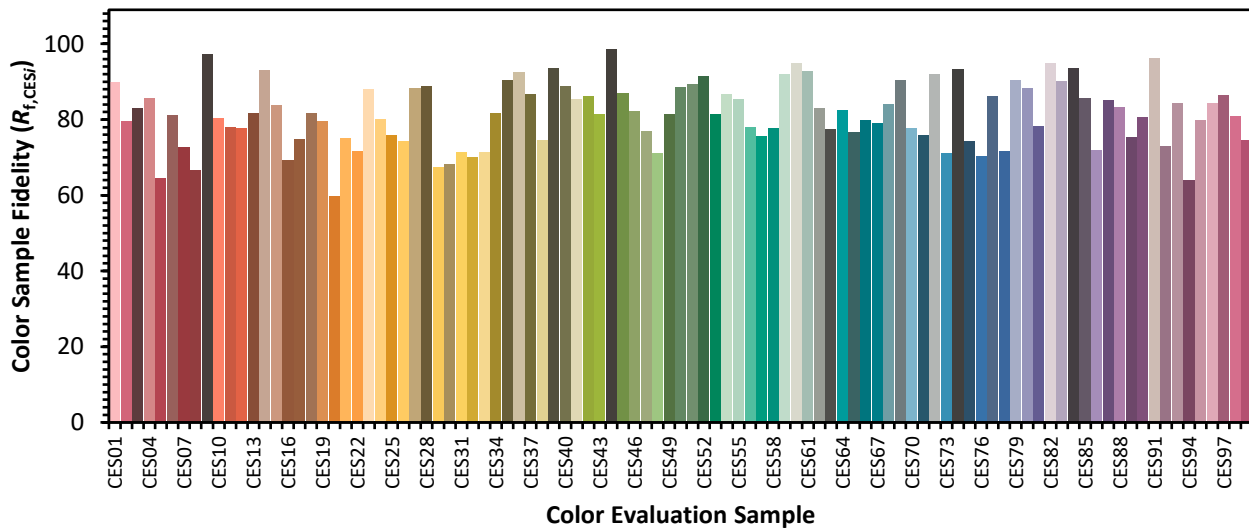


Color Vector Graphics

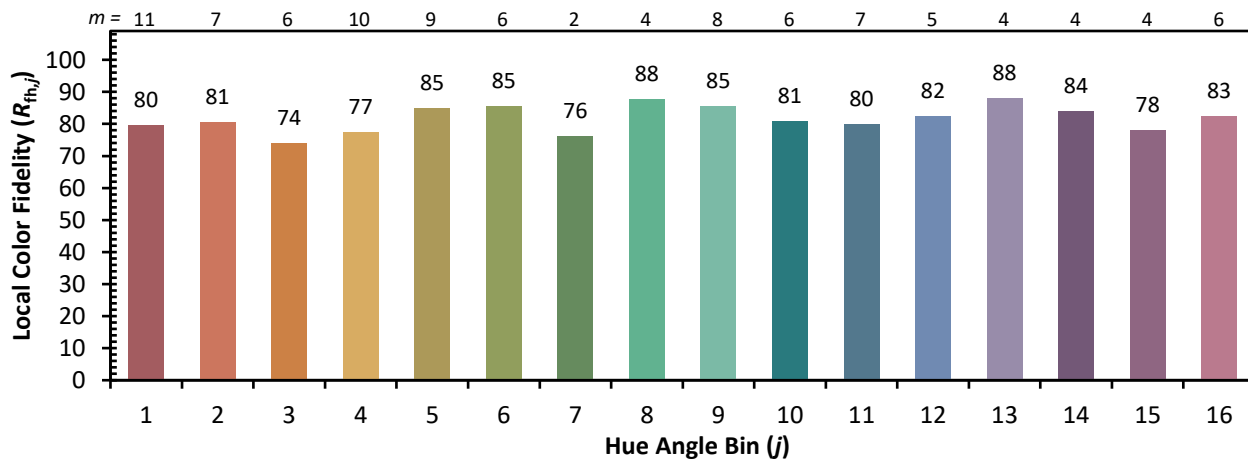
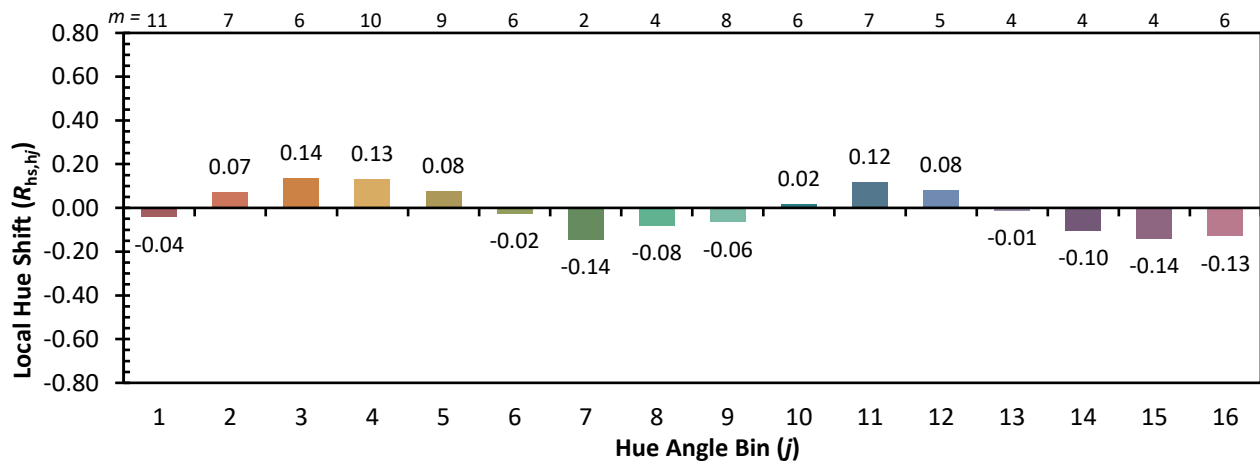
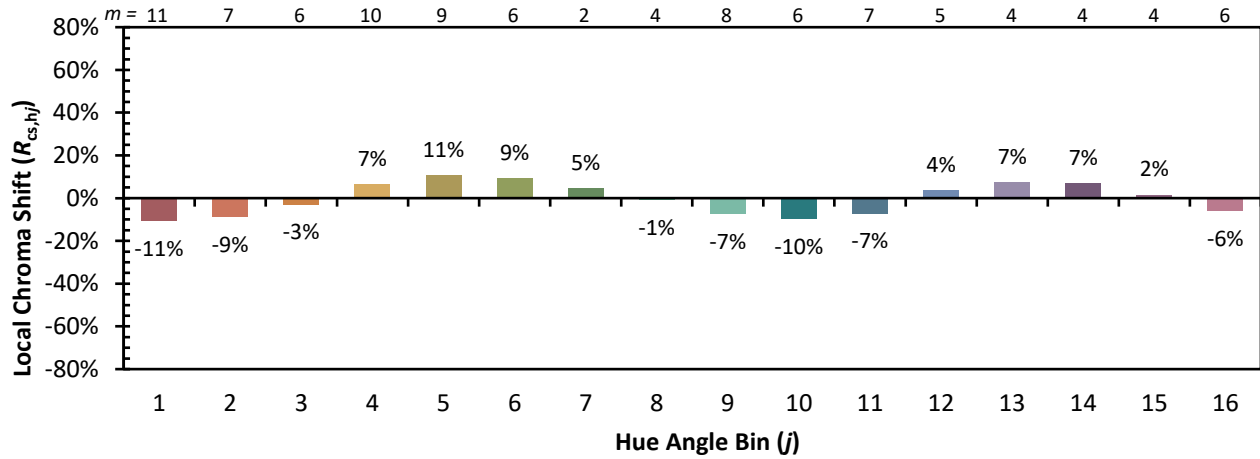


Individual Sample Fidelity Index ($R_{f,i}$)

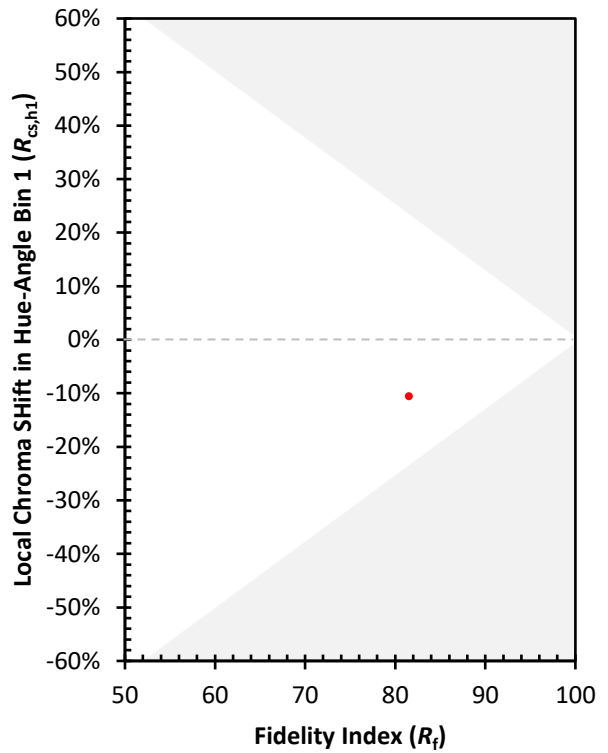
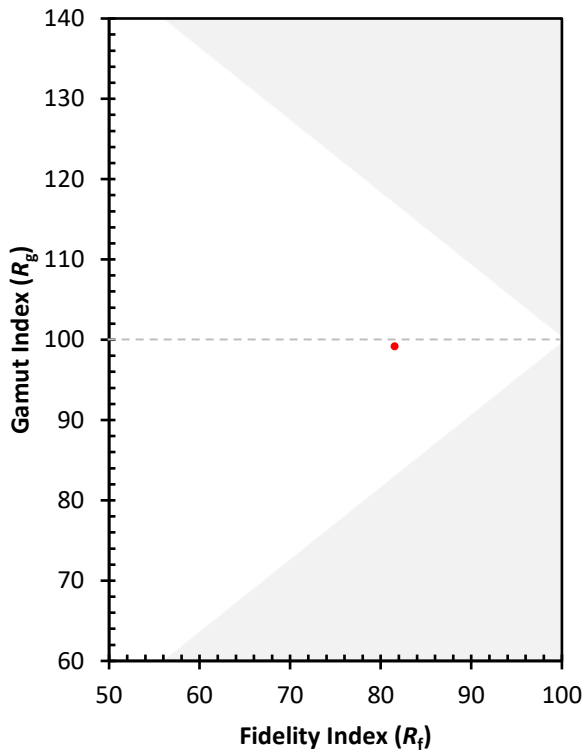
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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