

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: P320470

Luminaire Tested: **GLEON-SA6A-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320470
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-SA6A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19464 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

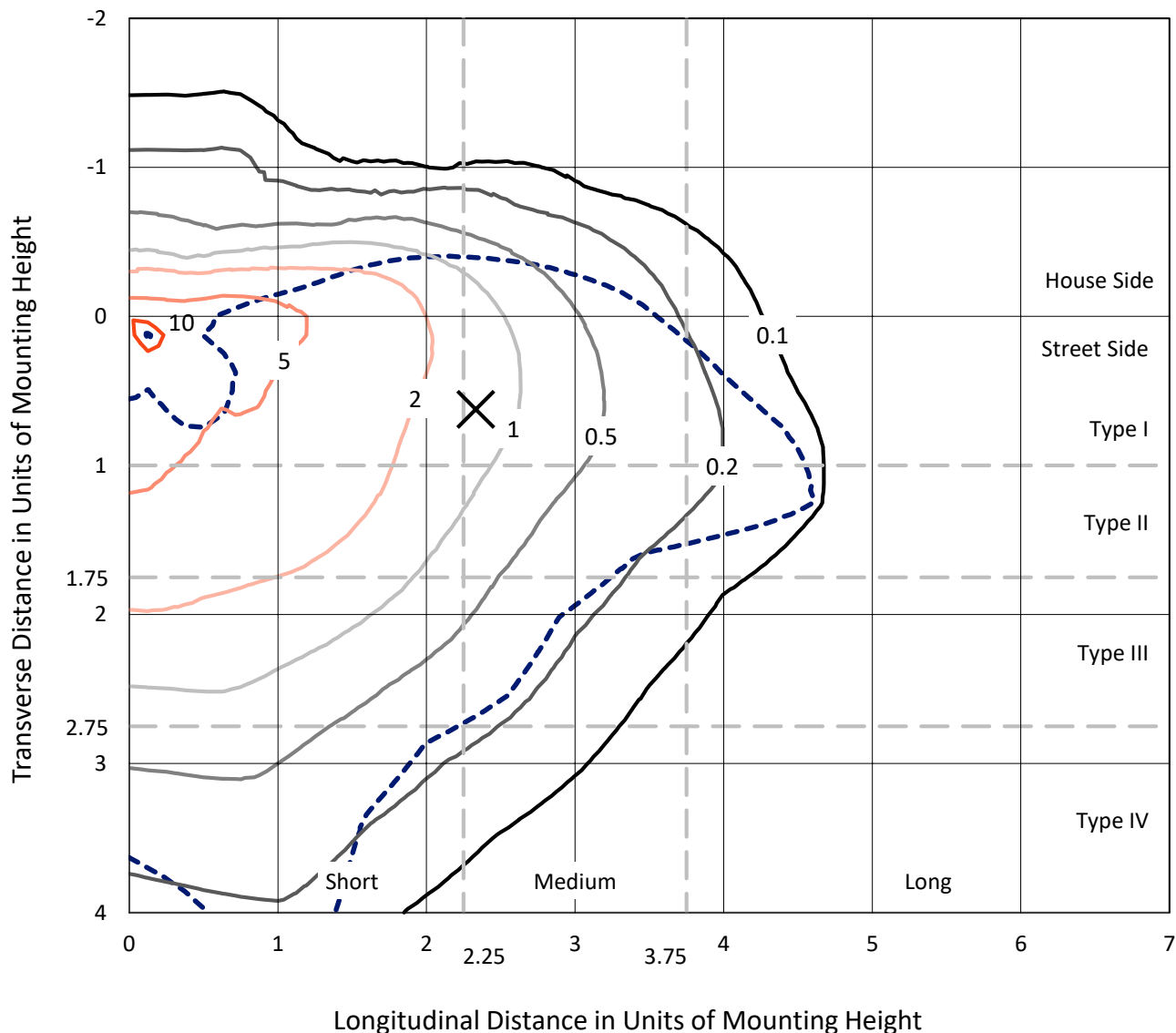
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

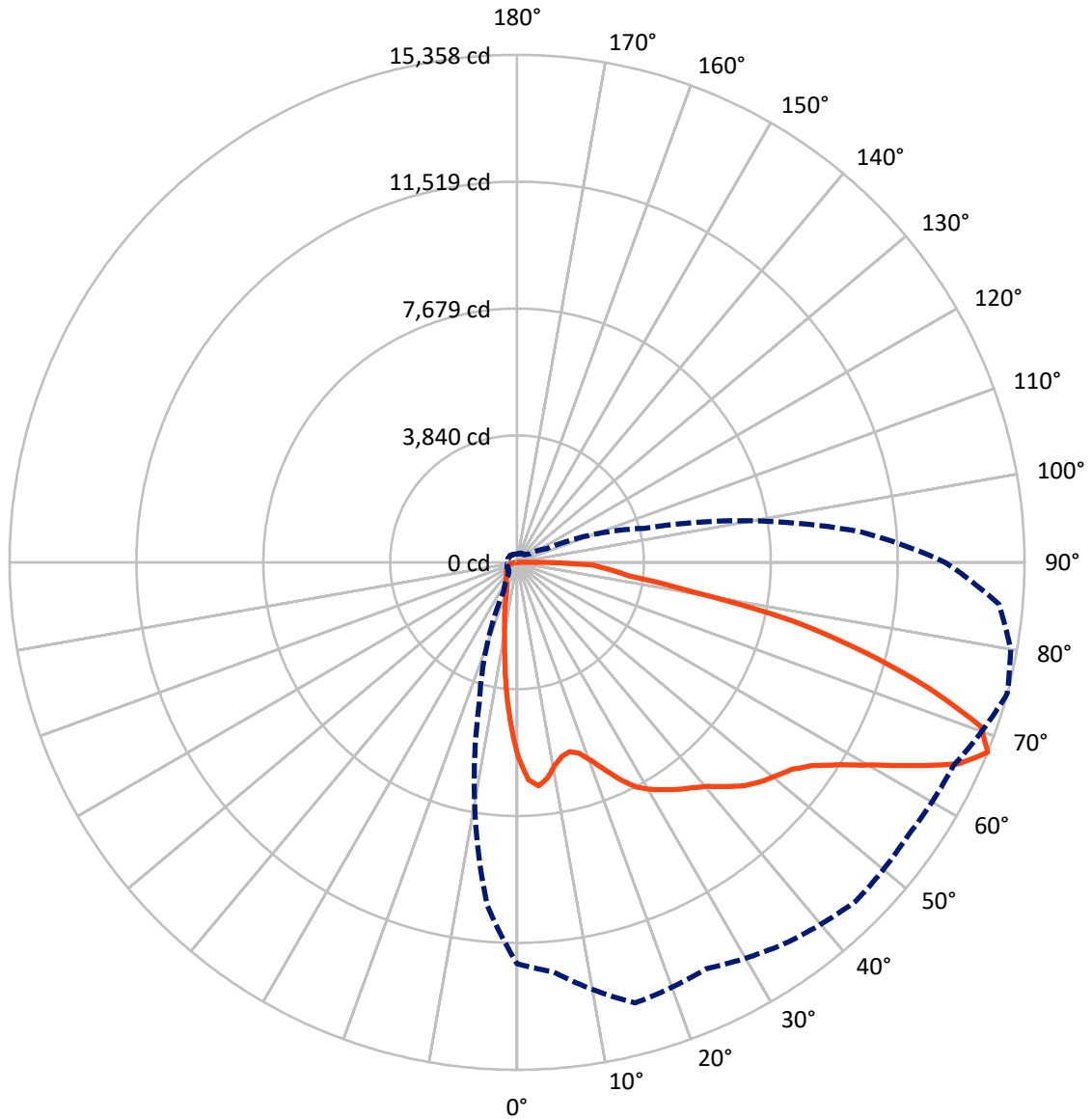
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	3428.1	0.0	3428.1
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	16035.9	0.0	16035.9
	% Fixture	82.4	0.0	82.4
Total	Lumens	19464.0	0.0	19464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.6	2.4
10°-20°	950.7	4.9
20°-30°	1352.1	6.9
30°-40°	1948.4	10.0
40°-50°	2745.9	14.1
50°-60°	3817.2	19.6
60°-70°	4616.2	23.7
70°-80°	2837.5	14.6
80°-90°	738.4	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°	19464.0	100.0
0°-180°	19464.0	100.0

Coefficient of Utilization

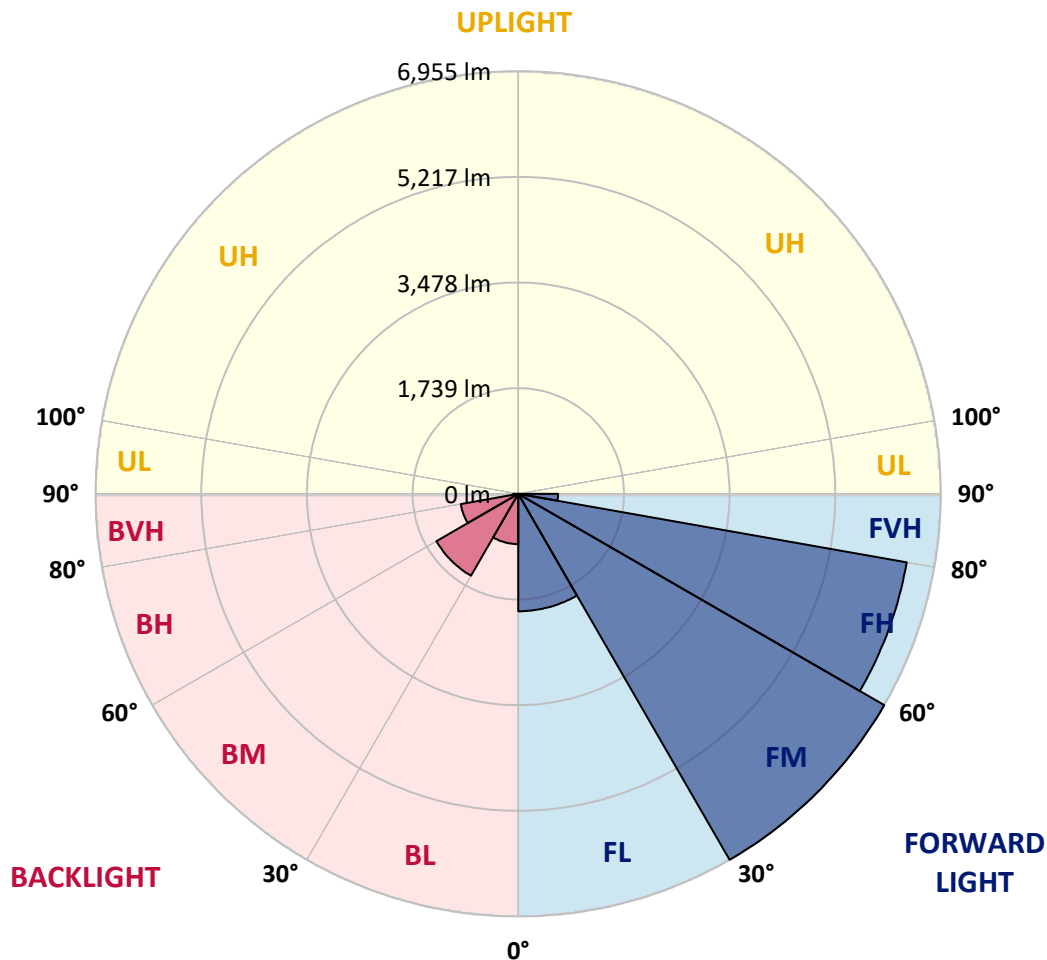


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.6	9.9			
FM (30°-60°)	6955.4	35.7			
FH (60°-80°)	6492.5	33.4			G3/7500
FVH (80°-90°)	655.4	3.4			G4/750
BL (0°-30°)	827.9	4.3	B2/1000		
BM (30°-60°)	1556.1	8.0	B2/2500		
BH (60°-80°)	961.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	83.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8
2.5°	6320.4	6403.7	6461.3	6518.1	6562.5	6606.0	6669.9	6733.7	6746.1	6757.8	6732.9
5°	6283.1	6486.2	6659.0	6830.9	6990.5	7150.0	7245.7	7341.4	7360.9	7380.3	7320.4
7.5°	5880.8	6180.4	6480.0	6779.6	7054.3	7329.0	7496.3	7662.8	7701.0	7738.3	7640.3
10°	5423.2	5771.8	6139.9	6508.0	6869.9	7231.7	7473.7	7715.7	7764.0	7812.2	7690.1
12.5°	5075.3	5455.9	5848.9	6241.9	6623.9	7005.3	7255.8	7506.4	7566.3	7626.3	7537.5
15°	4941.5	5358.6	5728.2	6097.9	6431.0	6763.2	6968.7	7173.3	7198.2	7222.4	7208.4
17.5°	5075.3	5535.3	5869.9	6203.7	6385.0	6565.6	6648.1	6729.8	6757.0	6783.5	6819.3
20°	5466.8	5963.3	6199.1	6434.1	6426.3	6417.7	6378.0	6337.6	6330.6	6323.6	6424.7
22.5°	6025.5	6602.2	6696.3	6789.7	6571.0	6352.4	6219.3	6085.4	6059.0	6031.7	6139.1
25°	6681.5	7295.5	7278.4	7260.5	6844.2	6427.1	6173.4	5919.7	5890.1	5860.5	5952.4
27.5°	7395.1	7981.9	7869.8	7757.8	7192.0	6626.3	6258.2	5890.1	5860.5	5831.0	5911.9
30°	7953.1	8485.4	8305.6	8125.8	7485.4	6844.9	6407.6	5970.3	5922.0	5873.0	5972.6
32.5°	8425.5	8878.4	8637.1	8395.9	7723.5	7051.2	6578.0	6104.9	6029.4	5953.9	6087.0
35°	8917.3	9270.6	8931.3	8591.2	7936.0	7280.0	6779.6	6278.4	6185.8	6093.2	6276.1
37.5°	9470.6	9763.9	9276.8	8788.9	8174.9	7560.9	7081.5	6601.4	6506.4	6411.5	6645.0
40°	10055.0	10299.3	9649.5	8999.8	8436.3	7872.9	7499.4	7125.1	7034.8	6943.8	7227.0
42.5°	10566.2	10744.5	9996.6	9248.8	8751.5	8253.5	7990.4	7726.6	7725.9	7724.3	8011.5
45°	10951.5	11106.3	10286.1	9465.1	9058.9	8651.9	8514.9	8378.0	8487.7	8597.4	8857.3
47.5°	11271.3	11376.3	10528.9	9680.7	9410.6	9140.6	9160.8	9181.1	9404.4	9627.8	9795.1
50°	11637.0	11552.2	10749.1	9945.3	9862.0	9778.7	9960.8	10142.1	10398.9	10655.0	10768.6
52.5°	12033.1	11808.2	11047.9	10286.9	10380.3	10473.6	10844.1	11214.5	11473.6	11732.8	11775.6
55°	12745.2	12400.4	11597.3	10793.5	10973.2	11152.2	11696.2	12239.4	12441.7	12644.0	12659.6
57.5°	13547.5	13241.7	12367.0	11492.3	11685.3	11878.3	12506.3	13133.5	13352.2	13570.1	13539.7
60°	13856.4	13871.2	13097.7	12323.4	12517.9	12712.5	13324.1	13935.8	14187.2	14437.7	14370.8
62.5°	13545.2	13910.1	13496.9	13082.9	13259.6	13435.4	14034.6	14633.8	14891.4	15149.0	15032.3
65°	12929.6	13291.5	13476.7	13661.9	13720.2	13778.6	14338.1	14896.9	15094.5	15291.4	15232.3
67.5°	12146.7	12439.3	13122.6	13805.1	13687.6	13570.1	13832.3	14094.6	14297.7	14500.8	14467.3
70°	11240.2	11588.8	12500.0	13411.3	12833.9	12255.7	12147.5	12039.4	12258.8	12477.5	12342.1
72.5°	9614.5	10140.6	11112.5	12083.7	11019.9	9956.1	9586.5	9216.9	9494.7	9772.5	9556.9
75°	7262.1	7960.1	9034.0	10107.1	8837.9	7568.7	7075.3	6581.9	6820.8	7059.7	6911.9
77.5°	5050.4	5925.9	6983.5	8041.0	6750.8	5459.8	5093.2	4725.9	4797.5	4868.3	4843.4
80°	3443.5	4019.3	4757.1	5494.0	4634.9	3775.8	3804.6	3832.6	3799.1	3764.9	3814.7
82.5°	2159.5	2564.9	3134.5	3703.4	3247.4	2791.4	3052.8	3314.3	3185.9	3056.7	3105.0
85°	1216.3	1463.8	2021.0	2577.4	2402.3	2226.4	2379.7	2532.2	2333.0	2133.8	2221.7
87.5°	231.9	386.0	1118.3	1849.8	1679.3	1508.9	1311.2	1113.6	849.8	586.0	856.0
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°	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8
2.5°	6708.0	6694.8	6681.5	6634.1	6585.8	6514.2	6455.1	6352.4	6296.3	6211.5	6126.7
5°	7259.7	7175.7	7091.6	6946.9	6801.4	6639.5	6453.5	6247.3	6091.7	5889.3	5687.0
7.5°	7542.2	7346.1	7149.2	6871.4	6592.8	6342.2	6048.1	5774.2	5540.7	5277.7	5014.6
10°	7567.9	7273.7	6978.8	6617.7	6255.9	5951.6	5613.1	5308.8	5028.7	4726.7	4424.0
12.5°	7448.0	7135.2	6821.6	6423.9	6025.5	5680.0	5315.8	4975.0	4664.5	4332.2	3999.1
15°	7194.4	6944.6	6694.0	6321.2	5948.5	5599.8	5246.5	4842.7	4491.7	4151.6	3810.8
17.5°	6854.3	6736.0	6616.9	6347.7	6077.7	5775.7	5433.3	4959.4	4548.5	4178.9	3809.2
20°	6525.1	6568.7	6611.5	6504.1	6396.7	6154.7	5855.9	5323.6	4799.1	4315.8	3831.8
22.5°	6245.7	6455.1	6663.6	6746.9	6829.4	6683.9	6450.4	5834.9	5140.7	4509.6	3878.5
25°	6043.4	6390.5	6737.6	7014.6	7290.9	7226.3	7046.5	6455.9	5593.6	4789.0	3983.5
27.5°	5992.8	6418.5	6844.2	7273.7	7702.5	7762.4	7712.6	7110.3	6133.7	5136.0	4137.6
30°	6072.2	6503.3	6933.7	7456.6	7978.8	8217.7	8284.6	7655.8	6750.8	5540.7	4329.8
32.5°	6220.1	6642.6	7065.2	7634.8	8203.7	8564.7	8778.0	8154.6	7181.1	5845.8	4509.6
35°	6459.0	6854.3	7249.6	7842.6	8435.6	8902.5	9291.6	8669.8	7563.2	6059.0	4554.0
37.5°	6877.6	7217.7	7557.8	8105.6	8652.7	9258.1	9842.5	9237.1	7976.4	6264.4	4551.6
40°	7510.3	7750.8	7990.4	8453.5	8915.7	9677.6	10466.6	9869.8	8433.2	6487.0	4540.7
42.5°	8298.6	8422.3	8545.3	8911.8	9278.3	10115.7	11033.2	10488.4	8869.0	6694.0	4518.9
45°	9116.5	9149.2	9181.8	9413.0	9643.3	10462.7	11419.1	10953.0	9249.6	6873.7	4497.2
47.5°	9961.6	9849.5	9737.5	9829.3	9921.1	10728.9	11694.6	11305.5	9631.6	7073.0	4513.5
50°	10882.2	10570.1	10258.1	10209.8	10161.6	10995.0	12019.1	11753.8	10090.8	7363.2	4635.7
52.5°	11817.6	11303.2	10788.8	10598.2	10406.7	11312.5	12449.5	12311.7	10746.0	7813.0	4879.2
55°	12675.1	12020.7	11366.2	11109.4	10852.6	11798.1	12974.7	13131.2	11585.7	8388.1	5189.7
57.5°	13508.6	12767.0	12025.4	11787.2	11549.1	12511.7	13640.1	13866.5	12433.9	8939.8	5445.0
60°	14303.9	13570.1	12835.4	12644.8	12453.4	13398.9	14359.1	14194.2	12871.2	9198.2	5524.4
62.5°	14915.5	14331.9	13748.3	13647.9	13546.7	14296.1	14911.7	14066.5	12593.4	8943.7	5294.0
65°	15173.1	14840.8	14507.8	14601.9	14695.3	14974.7	15049.4	13693.0	11720.3	8230.9	4741.5
67.5°	14433.1	14500.8	14568.5	14963.8	15358.3	15166.1	14640.1	12956.8	10477.5	7220.8	3964.1
70°	12205.9	12612.1	13017.5	13952.9	14887.5	14461.1	13543.6	11635.5	8981.9	6057.4	3132.2
72.5°	9340.6	9797.4	10253.4	11641.7	13029.2	12636.2	11512.5	9556.9	7201.4	4837.2	2472.3
75°	6763.2	7279.2	7794.3	9325.8	10857.3	10311.8	8611.4	6842.6	5469.9	3692.5	1914.3
77.5°	4817.8	5163.3	5508.8	7021.6	8533.6	7644.9	5732.1	4604.5	3785.9	2566.5	1346.3
80°	3864.5	3758.7	3652.8	4495.6	5338.4	5190.5	3791.3	2957.1	2620.2	1719.8	819.4
82.5°	3152.4	2894.1	2635.7	3032.6	3429.5	3407.7	2631.1	2169.6	1950.1	1195.3	440.5
85°	2308.9	2205.4	2101.9	2452.9	2803.8	2504.2	1782.1	1379.0	1520.6	880.1	239.7
87.5°	1126.0	1286.3	1445.9	1859.9	2273.1	1706.6	540.8	267.7	370.4	243.6	116.0
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: P320470
 CATALOG NUMBER: GLEON-SA6A-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: P320470

CATALOG NUMBER: GLEON-SA6A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8
2.5°	6063.6	5999.8	5927.5	5855.1	5772.6	5689.3	5640.3	5590.5	5536.8	5483.1	5422.4
5°	5553.2	5419.3	5267.6	5115.8	4965.6	4815.4	4734.5	4653.6	4568.0	4481.6	4406.9
7.5°	4820.1	4624.8	4414.7	4203.8	4017.0	3829.5	3713.5	3596.8	3491.0	3384.3	3294.9
10°	4175.0	3926.0	3715.1	3503.4	3362.6	3221.7	3115.1	3008.5	2905.8	2802.3	2703.4
12.5°	3750.1	3501.1	3367.2	3233.4	3116.6	2999.9	2877.0	2753.2	2612.4	2470.7	2367.3
15°	3584.3	3357.9	3209.3	3059.8	2903.4	2746.2	2595.3	2444.3	2277.8	2111.2	1993.7
17.5°	3512.7	3216.3	3008.5	2799.9	2593.7	2387.5	2212.4	2037.3	1855.2	1673.1	1554.0
20°	3437.3	3042.7	2764.1	2484.8	2220.2	1955.6	1757.2	1558.7	1396.1	1233.4	1142.4
22.5°	3368.8	2858.3	2508.9	2158.7	1845.9	1533.0	1338.5	1143.2	1043.6	943.9	907.4
25°	3340.8	2697.2	2267.6	1838.1	1508.1	1177.4	1038.9	900.4	862.2	823.3	804.6
27.5°	3345.4	2553.2	2064.5	1575.1	1277.8	980.5	885.6	790.6	767.3	743.2	731.5
30°	3363.3	2396.8	1873.1	1349.4	1104.2	859.1	797.6	735.4	710.5	685.6	670.8
32.5°	3383.6	2256.7	1725.2	1193.0	993.0	792.2	741.6	690.3	666.1	642.0	627.2
35°	3348.5	2142.4	1624.1	1105.8	921.4	736.2	693.4	649.8	623.3	596.9	582.9
37.5°	3289.4	2027.2	1545.5	1063.0	874.7	685.6	654.5	622.6	595.3	567.3	554.1
40°	3235.7	1929.9	1487.1	1043.6	849.0	653.7	627.2	600.8	572.7	544.0	528.4
42.5°	3192.1	1864.5	1429.5	994.5	825.7	656.0	618.7	580.5	553.3	526.1	508.9
45°	3159.4	1821.7	1384.4	947.1	803.9	660.7	613.2	565.7	538.5	510.5	490.3
47.5°	3156.3	1799.2	1352.5	905.8	762.6	618.7	599.2	579.8	540.1	499.6	476.3
50°	3199.1	1762.6	1315.1	866.9	722.9	579.0	605.4	631.1	563.4	494.9	465.4
52.5°	3288.6	1698.0	1256.0	814.0	674.7	534.6	575.9	616.3	558.0	498.8	460.7
55°	3396.8	1603.1	1166.5	729.2	610.9	491.8	528.4	564.2	527.6	490.3	444.3
57.5°	3464.5	1483.2	1053.7	624.1	539.3	454.5	475.5	495.7	480.9	466.1	419.4
60°	3424.0	1323.7	926.8	529.2	476.3	423.3	419.4	414.8	436.6	458.4	404.7
62.5°	3226.4	1158.7	814.8	470.8	431.1	390.7	382.1	372.8	408.5	443.6	386.8
65°	2892.5	1043.6	743.9	444.3	400.0	355.6	346.3	337.0	347.9	358.7	332.3
67.5°	2468.4	972.7	703.5	434.2	380.5	326.1	315.2	304.3	301.9	299.6	290.3
70°	2031.1	929.2	677.0	424.9	359.5	293.4	283.3	273.1	270.0	266.1	259.1
72.5°	1698.0	923.7	673.9	424.1	342.4	260.7	251.4	242.0	238.1	233.5	228.0
75°	1390.6	866.9	639.7	412.4	319.1	224.9	216.3	207.8	204.7	200.8	196.1
77.5°	1031.9	717.5	537.7	358.0	273.1	188.3	179.8	170.4	169.6	168.1	164.2
80°	669.2	519.1	384.4	249.8	199.2	147.9	140.9	133.1	133.8	134.6	131.5
82.5°	372.0	302.7	235.0	167.3	136.2	105.1	101.9	98.1	100.4	101.9	98.1
85°	196.1	152.5	126.1	99.6	78.6	57.6	57.6	56.8	59.9	63.0	59.9
87.5°	84.8	53.7	45.9	37.4	21.0	3.9	4.7	4.7	6.2	7.8	7.0
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: P320470
 CATALOG NUMBER: GLEON-SA6A-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: P320470
 CATALOG NUMBER: GLEON-SA6A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8
2.5°	5360.9	5304.1	5246.5	5183.5	5195.2	5146.9	5098.7	5068.3	5038.0	5028.7	5019.3
5°	4332.2	4267.6	4202.2	4143.9	4194.4	4160.2	4126.0	4121.3	4115.8	4115.8	4115.1
7.5°	3205.4	3136.1	3066.1	3017.8	3067.6	3061.4	3055.2	3088.6	3122.1	3149.3	3175.8
10°	2604.6	2520.6	2435.7	2364.1	2351.7	2315.9	2279.3	2287.1	2294.1	2323.7	2353.2
12.5°	2263.8	2163.4	2063.0	1978.9	1940.8	1881.7	1821.7	1784.4	1747.0	1750.9	1754.0
15°	1875.4	1778.2	1680.1	1607.7	1583.6	1537.7	1491.8	1445.1	1397.6	1378.2	1357.9
17.5°	1434.2	1356.4	1277.8	1229.5	1229.5	1216.3	1203.1	1179.7	1155.6	1136.2	1115.9
20°	1051.3	1010.1	968.1	947.8	954.1	954.8	954.8	966.5	978.2	972.0	965.7
22.5°	870.0	855.2	840.4	831.9	835.0	835.8	836.6	847.4	857.6	865.3	872.3
25°	785.2	775.9	766.5	763.4	770.4	771.2	771.2	778.2	785.2	793.0	800.8
27.5°	719.0	715.2	711.3	705.8	712.8	712.8	712.0	719.8	726.8	733.8	740.1
30°	656.0	657.6	658.3	656.8	661.5	664.6	666.9	672.4	677.0	682.5	687.9
32.5°	611.7	609.3	607.0	605.4	615.5	621.0	626.4	631.9	636.6	638.9	641.2
35°	568.9	563.4	558.0	554.1	563.4	570.4	577.4	587.5	596.9	598.4	600.0
37.5°	540.1	533.1	526.1	521.4	525.3	528.4	531.5	542.4	553.3	559.5	565.0
40°	512.8	505.8	498.8	494.9	497.3	498.0	498.8	504.3	508.9	520.6	531.5
42.5°	491.0	482.5	473.9	469.2	470.8	472.4	473.1	472.4	471.6	482.5	493.4
45°	469.2	459.9	450.6	445.1	445.9	445.9	445.9	444.3	442.0	447.5	452.9
47.5°	452.1	441.2	430.3	424.9	423.3	421.8	420.2	419.4	417.9	421.8	424.9
50°	435.0	423.3	410.9	404.7	400.8	399.2	397.7	396.9	395.3	399.2	402.3
52.5°	421.8	407.8	393.8	383.6	379.8	377.4	375.1	375.9	375.9	377.4	378.2
55°	398.4	386.0	372.8	365.7	358.7	357.2	355.6	358.0	359.5	359.5	359.5
57.5°	372.8	361.1	348.6	344.0	337.7	337.7	337.0	340.1	342.4	344.0	345.5
60°	350.2	337.0	323.7	319.8	317.5	316.7	315.9	319.8	322.9	326.1	329.2
62.5°	329.2	315.2	301.2	296.5	295.7	296.5	296.5	300.4	303.5	306.6	309.7
65°	305.8	291.8	277.0	272.4	273.9	276.3	278.6	281.7	284.0	287.2	290.3
67.5°	280.1	268.5	256.0	251.4	252.1	255.2	258.4	260.7	262.2	265.4	268.5
70°	252.1	242.0	231.9	228.8	228.0	231.9	235.0	236.6	238.1	242.0	245.1
72.5°	221.8	213.2	204.7	202.3	203.1	205.4	207.8	210.1	211.7	215.6	218.7
75°	190.7	182.9	175.1	173.5	175.1	177.4	179.8	181.3	182.9	187.5	191.4
77.5°	160.3	151.7	142.4	141.6	144.0	146.3	147.9	150.2	152.5	158.8	165.0
80°	128.4	119.1	108.9	108.2	110.5	112.8	115.2	117.5	119.8	127.6	134.6
82.5°	94.2	83.3	72.4	70.8	78.6	80.9	83.3	87.2	90.3	97.3	104.3
85°	56.8	45.9	35.0	34.2	41.2	45.1	49.0	53.7	57.6	63.8	70.0
87.5°	6.2	3.1	0.0	0.0	0.8	3.9	7.0	10.9	14.8	21.0	26.5
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: P320470
 CATALOG NUMBER: GLEON-SA6A-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: P320470
 CATALOG NUMBER: GLEON-SA6A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8
2.5°	4985.1	4950.1	4985.9	5020.9	5035.7	5050.4	5012.3	4973.4	5034.1	5094.0	5109.6
5°	4083.9	4052.0	4076.2	4099.5	4047.4	3995.2	3989.8	3983.5	4028.7	4073.8	4080.8
7.5°	3165.7	3155.6	3178.1	3200.7	3134.5	3067.6	3034.9	3002.3	3013.1	3024.0	3022.5
10°	2360.2	2366.5	2394.5	2421.7	2370.4	2319.0	2296.4	2273.9	2298.8	2322.9	2345.5
12.5°	1768.0	1781.3	1810.8	1839.6	1818.6	1796.8	1799.2	1801.5	1830.3	1858.3	1883.2
15°	1373.5	1389.1	1410.1	1430.3	1431.1	1431.1	1451.3	1470.8	1468.4	1466.1	1483.2
17.5°	1136.9	1157.2	1159.5	1161.8	1162.6	1163.4	1161.8	1160.3	1148.6	1136.9	1150.2
20°	973.5	980.5	986.7	992.2	985.2	977.4	958.0	938.5	930.7	922.9	935.4
22.5°	885.6	898.0	891.8	884.8	870.8	856.0	841.2	825.7	824.9	823.3	830.3
25°	811.7	821.8	810.9	800.0	789.9	779.7	769.6	759.5	758.7	758.0	761.1
27.5°	750.2	759.5	749.4	739.3	730.7	722.2	714.4	706.6	705.0	703.5	704.3
30°	697.3	705.8	697.3	687.9	681.7	674.7	669.2	663.8	663.0	662.2	662.2
32.5°	649.8	658.3	652.1	645.9	640.4	635.0	631.1	627.2	623.3	619.4	610.9
35°	608.5	617.1	613.2	608.5	602.3	596.1	589.1	581.3	571.2	560.3	555.6
37.5°	573.5	582.1	578.2	574.3	565.7	557.2	544.7	531.5	528.4	524.5	523.7
40°	545.5	558.7	551.0	542.4	529.2	515.9	509.7	503.5	501.9	500.4	498.8
42.5°	514.4	534.6	520.6	506.6	494.1	481.7	480.1	478.6	477.8	477.0	477.0
45°	475.5	497.3	483.3	468.5	461.5	454.5	454.5	454.5	455.2	455.2	456.8
47.5°	438.9	452.1	445.1	438.1	434.2	430.3	431.1	431.9	434.2	435.8	439.7
50°	407.8	412.4	414.0	414.8	412.4	410.1	411.7	412.4	414.8	416.3	419.4
52.5°	385.2	392.2	392.2	391.4	391.4	391.4	393.0	394.5	396.9	399.2	402.3
55°	370.4	380.5	377.4	374.3	375.1	375.1	376.6	378.2	380.5	382.1	386.8
57.5°	356.4	367.3	364.2	361.1	361.1	361.1	361.9	362.6	365.0	366.5	369.6
60°	340.1	351.0	347.9	344.0	344.7	345.5	346.3	346.3	347.9	348.6	348.6
62.5°	320.6	331.5	328.4	324.5	326.8	328.4	328.4	328.4	330.0	330.7	328.4
65°	300.4	310.5	307.4	304.3	307.4	309.7	311.3	312.1	311.3	310.5	308.2
67.5°	278.6	288.7	285.6	281.7	285.6	288.7	291.8	294.2	291.8	289.5	286.4
70°	255.2	265.4	261.5	257.6	261.5	265.4	268.5	271.6	268.5	265.4	264.6
72.5°	230.3	242.0	237.3	232.7	237.3	242.0	243.6	245.1	242.8	240.5	238.9
75°	203.1	214.8	210.9	206.2	210.1	214.0	214.8	215.6	215.6	214.8	210.1
77.5°	174.3	183.7	181.3	179.0	181.3	183.7	183.7	183.7	184.4	184.4	178.2
80°	140.1	145.5	146.3	147.1	147.9	148.6	147.9	147.1	145.5	144.0	140.1
82.5°	104.3	104.3	110.5	116.0	116.0	115.2	114.4	112.8	109.7	105.8	97.3
85°	66.1	62.3	72.4	81.7	81.7	80.9	79.4	77.0	70.8	63.8	56.8
87.5°	22.6	18.7	28.8	38.9	39.7	39.7	38.1	36.6	30.3	23.3	17.9
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: P320470
 CATALOG NUMBER: GLEON-SA6A-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: P320470

CATALOG NUMBER: GLEON-SA6A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8
2.5°	5132.9	5143.0	5152.4	5228.7	5304.1	5392.8	5481.6	5549.3	5616.2	5685.4	5754.7
5°	4104.9	4117.4	4129.8	4222.5	4314.3	4438.0	4561.7	4668.4	4775.0	4900.3	5025.5
7.5°	3042.7	3070.0	3096.4	3195.2	3293.3	3426.4	3558.7	3698.0	3836.5	3999.9	4163.3
10°	2389.8	2441.2	2491.8	2592.9	2694.1	2825.6	2956.3	3101.9	3247.4	3408.5	3568.8
12.5°	1934.6	2003.1	2070.8	2192.2	2313.6	2470.7	2627.2	2789.0	2950.1	3091.7	3233.4
15°	1528.4	1603.1	1677.0	1805.4	1933.8	2106.6	2278.5	2455.2	2631.1	2800.7	2970.3
17.5°	1192.2	1253.7	1314.4	1423.3	1531.5	1698.8	1866.1	2051.3	2236.5	2443.5	2649.7
20°	961.8	987.5	1013.2	1091.8	1169.6	1305.8	1441.2	1630.3	1819.4	2066.9	2314.3
22.5°	842.8	856.0	868.5	906.6	943.9	1031.9	1119.0	1286.3	1452.9	1722.9	1992.2
25°	771.2	781.3	791.4	816.3	841.2	883.2	925.3	1042.8	1160.3	1425.6	1690.2
27.5°	706.6	722.2	736.9	748.6	759.5	788.3	816.3	893.4	970.4	1217.9	1464.6
30°	659.9	665.4	670.8	688.7	705.8	735.4	765.0	818.7	872.3	1081.7	1290.2
32.5°	605.4	613.2	621.0	639.7	658.3	685.6	712.8	756.4	799.2	978.2	1156.4
35°	556.4	564.2	572.0	590.6	608.5	638.1	666.9	703.5	739.3	894.9	1050.6
37.5°	526.1	533.8	541.6	558.0	573.5	603.1	631.9	660.7	688.7	832.7	976.6
40°	500.4	508.2	515.9	531.5	546.3	575.1	603.1	627.2	651.3	786.0	920.6
42.5°	477.8	486.4	494.9	510.5	525.3	551.0	576.6	608.5	639.7	745.5	850.6
45°	459.1	467.7	475.5	492.6	509.7	534.6	559.5	603.9	648.2	724.5	800.8
47.5°	442.0	451.3	459.9	478.6	497.3	528.4	558.7	596.1	632.7	708.2	783.6
50°	425.7	436.6	447.5	470.0	491.8	544.0	595.3	600.8	605.4	694.9	783.6
52.5°	410.1	422.6	435.0	463.0	490.3	551.0	611.7	592.2	572.0	670.0	768.1
55°	394.5	405.4	415.6	449.8	484.0	528.4	572.7	547.1	520.6	623.3	726.1
57.5°	373.5	385.2	396.1	432.7	469.2	500.4	530.7	507.4	483.3	570.4	656.8
60°	351.7	365.0	378.2	424.9	470.8	465.4	459.1	454.5	449.0	511.3	573.5
62.5°	332.3	346.3	360.3	421.0	481.7	444.3	407.0	410.9	414.0	459.9	505.8
65°	312.8	326.8	340.1	370.4	400.8	386.0	371.2	377.4	382.9	428.0	473.1
67.5°	291.0	303.5	315.2	325.3	335.4	337.0	338.5	344.7	351.0	404.7	457.6
70°	266.9	277.0	287.2	294.2	300.4	303.5	305.8	313.6	321.4	379.8	438.1
72.5°	239.7	248.2	256.0	262.2	268.5	270.8	272.4	280.1	287.9	350.2	412.4
75°	210.1	217.1	223.3	228.8	234.2	237.3	240.5	245.9	251.4	319.1	386.0
77.5°	177.4	184.4	190.7	195.3	199.2	202.3	204.7	211.7	218.7	275.5	331.5
80°	138.5	147.1	154.9	158.8	161.9	162.6	162.6	168.9	175.1	215.6	255.2
82.5°	98.1	107.4	116.0	119.1	122.2	122.2	122.2	129.2	136.2	163.4	189.9
85°	57.6	67.7	77.0	80.2	83.3	84.8	85.6	88.7	91.0	110.5	129.2
87.5°	17.9	26.5	34.2	35.8	37.4	40.5	43.6	44.4	44.4	57.6	70.8
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: P320470
 CATALOG NUMBER: GLEON-SA6A-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: P320470

CATALOG NUMBER: GLEON-SA6A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8	5929.8
2.5°	5834.1	5913.5	6006.1	6097.9	6176.5	6255.1	6320.4
5°	5185.1	5344.6	5539.9	5734.5	5908.0	6081.5	6283.1
7.5°	4369.5	4575.8	4828.7	5081.6	5326.7	5571.1	5880.8
10°	3778.9	3988.2	4255.9	4522.8	4798.3	5073.0	5423.2
12.5°	3403.8	3573.4	3832.6	4091.7	4415.4	4738.4	5075.3
15°	3156.3	3341.5	3593.7	3845.8	4199.9	4554.0	4941.5
17.5°	2892.5	3134.5	3457.5	3780.4	4199.9	4618.6	5075.3
20°	2616.3	2917.4	3336.1	3754.8	4319.7	4883.9	5466.8
22.5°	2340.8	2689.4	3226.4	3762.5	4501.0	5238.8	6025.5
25°	2092.5	2494.9	3159.4	3823.2	4764.9	5705.7	6681.5
27.5°	1904.2	2343.1	3132.2	3920.5	5099.5	6278.4	7395.1
30°	1736.9	2183.6	3099.5	4015.5	5421.6	6827.1	7953.1
32.5°	1592.2	2028.0	3036.5	4044.2	5646.5	7248.8	8425.5
35°	1478.6	1906.6	2930.7	3954.8	5787.4	7620.0	8917.3
37.5°	1380.5	1784.4	2810.0	3835.7	5912.7	7989.7	9470.6
40°	1287.1	1653.7	2706.5	3758.7	6085.4	8412.2	10055.0
42.5°	1198.4	1546.3	2623.3	3700.3	6245.7	8790.4	10566.2
45°	1132.3	1463.8	2549.3	3634.1	6349.2	9064.3	10951.5
47.5°	1099.6	1414.7	2509.7	3603.8	6452.7	9300.9	11271.3
50°	1094.9	1406.2	2554.8	3703.4	6676.9	9649.5	11637.0
52.5°	1094.1	1420.2	2684.8	3949.3	7093.2	10236.3	12033.1
55°	1077.8	1428.8	2839.6	4249.7	7651.9	11053.4	12745.2
57.5°	1028.0	1399.2	2999.1	4598.3	8242.6	11886.1	13547.5
60°	950.9	1327.6	3130.7	4932.9	8639.5	12345.2	13856.4
62.5°	854.5	1202.3	3174.2	5145.4	8628.6	12111.7	13545.2
65°	772.0	1070.8	3031.0	4990.5	8192.0	11392.7	12929.6
67.5°	698.8	939.3	2673.1	4406.1	7406.8	10406.7	12146.7
70°	645.9	852.9	2211.6	3570.3	6423.9	9276.8	11240.2
72.5°	612.4	811.7	1803.1	2793.7	5213.1	7631.7	9614.5
75°	566.5	747.1	1414.7	2081.7	3989.8	5897.9	7262.1
77.5°	480.9	629.6	1066.1	1502.7	2927.5	4351.6	5050.4
80°	371.2	486.4	733.1	979.7	2014.7	3049.7	3443.5
82.5°	264.6	339.3	444.3	549.4	1338.5	2126.8	2159.5
85°	163.4	197.7	254.5	311.3	885.6	1459.9	1216.3
87.5°	87.9	105.1	134.6	163.4	283.3	403.1	231.9
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: P320470
 CATALOG NUMBER: GLEON-SA6A-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.

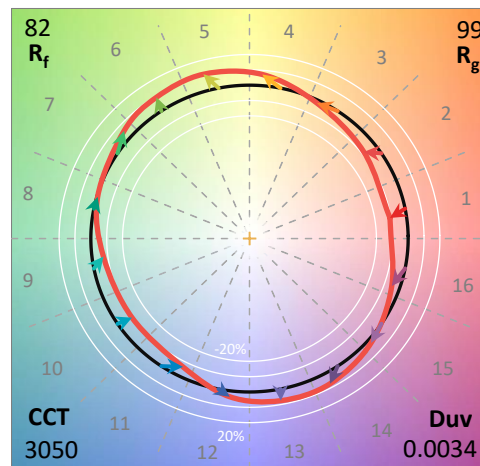
Test Information

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

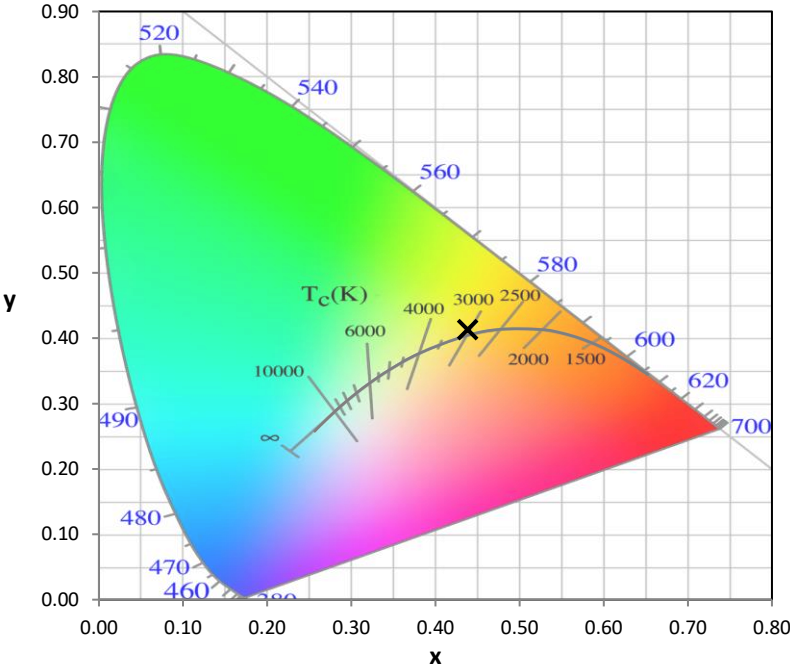
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

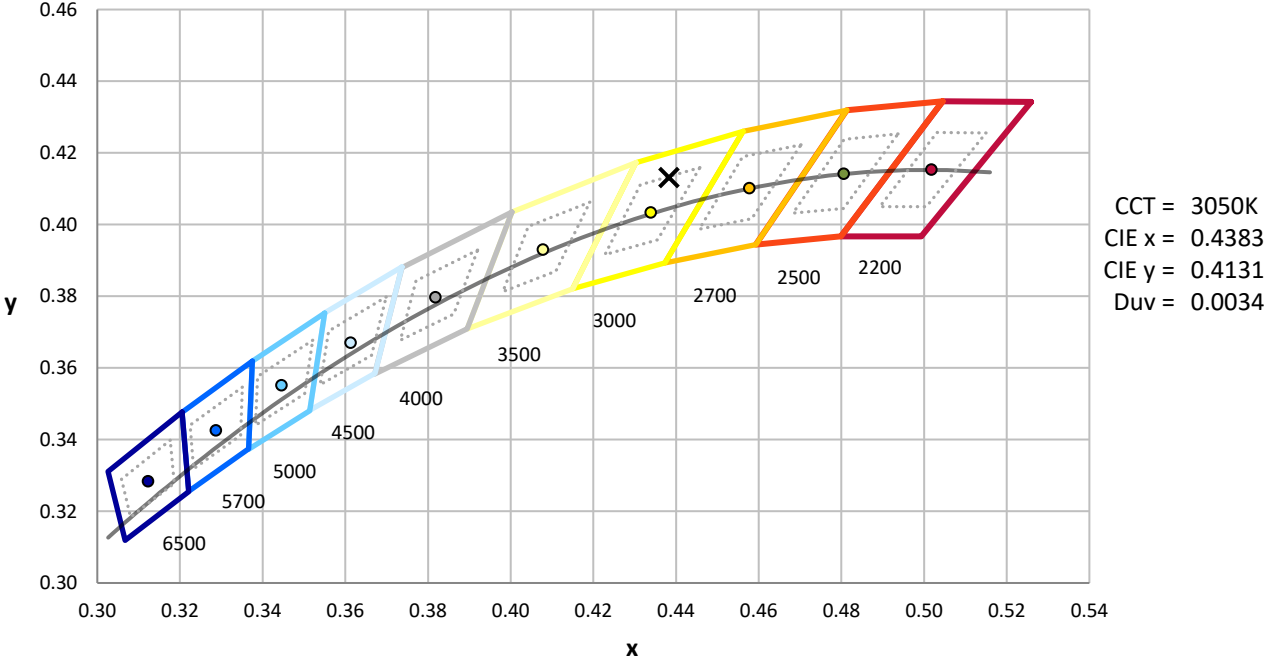
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



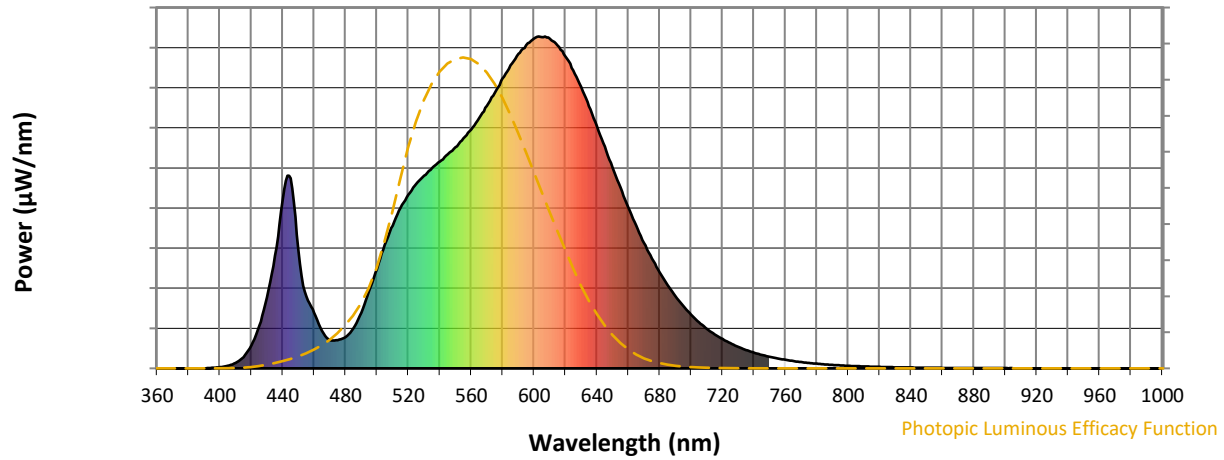
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

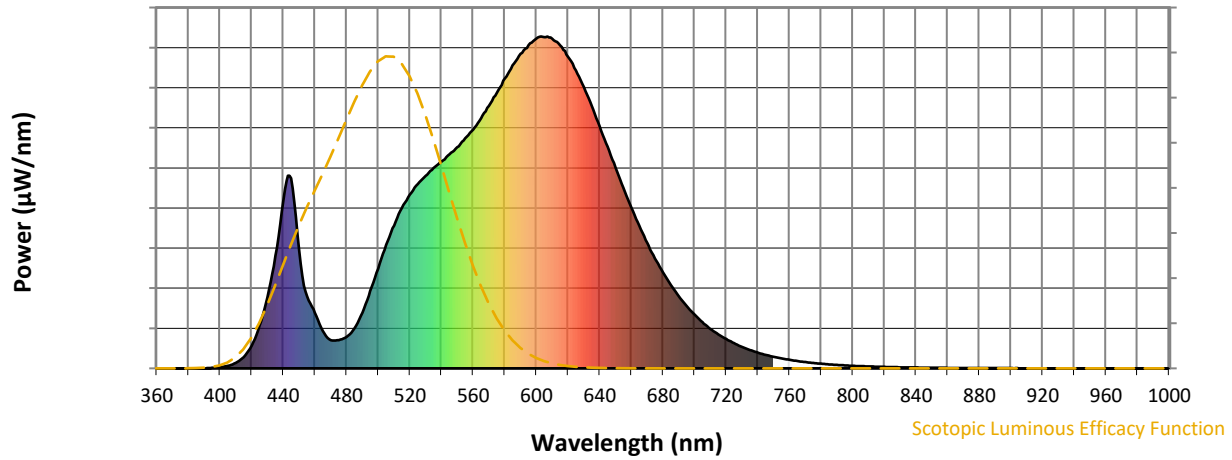


Photopic Lumens: NR

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



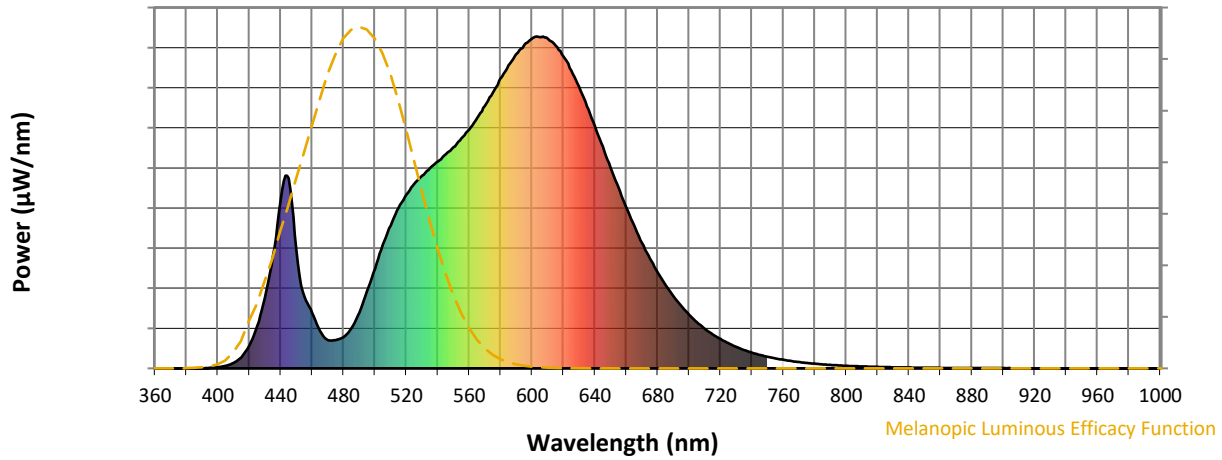
Scotopic Lumens: NR

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



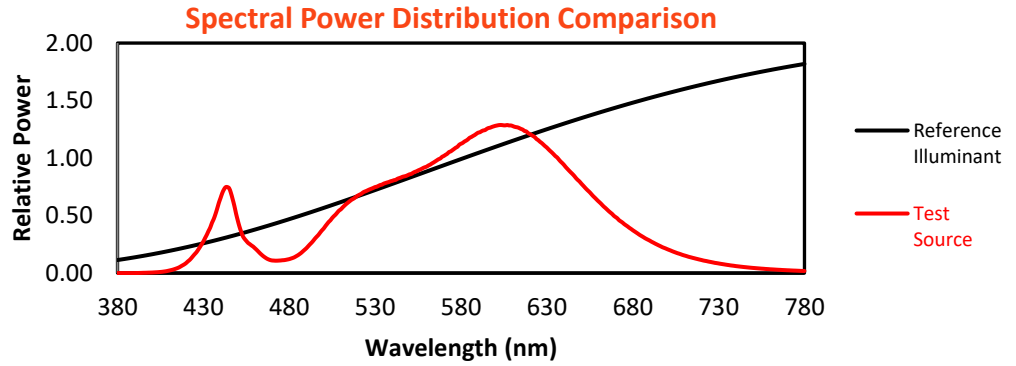
Melanopic Lumens: NR

M/P: 2.32

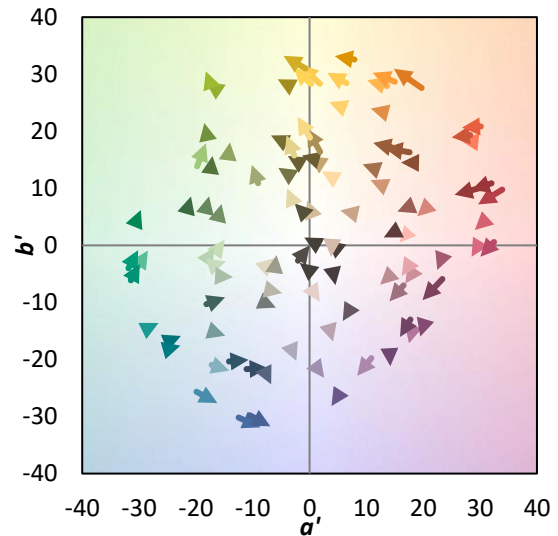
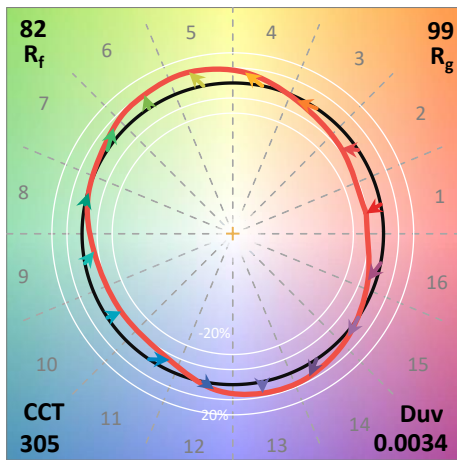
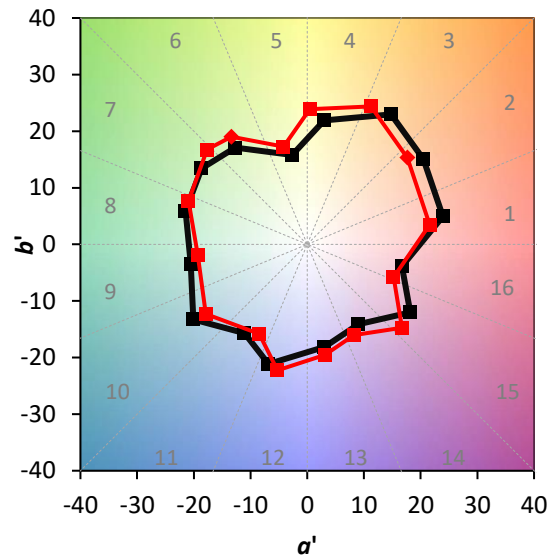
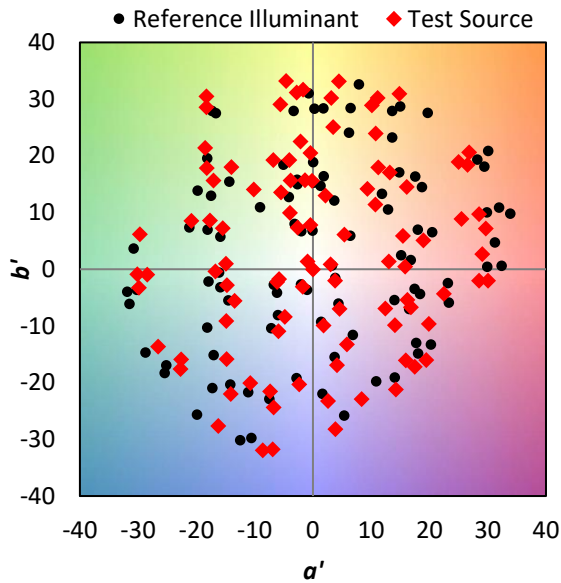
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

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

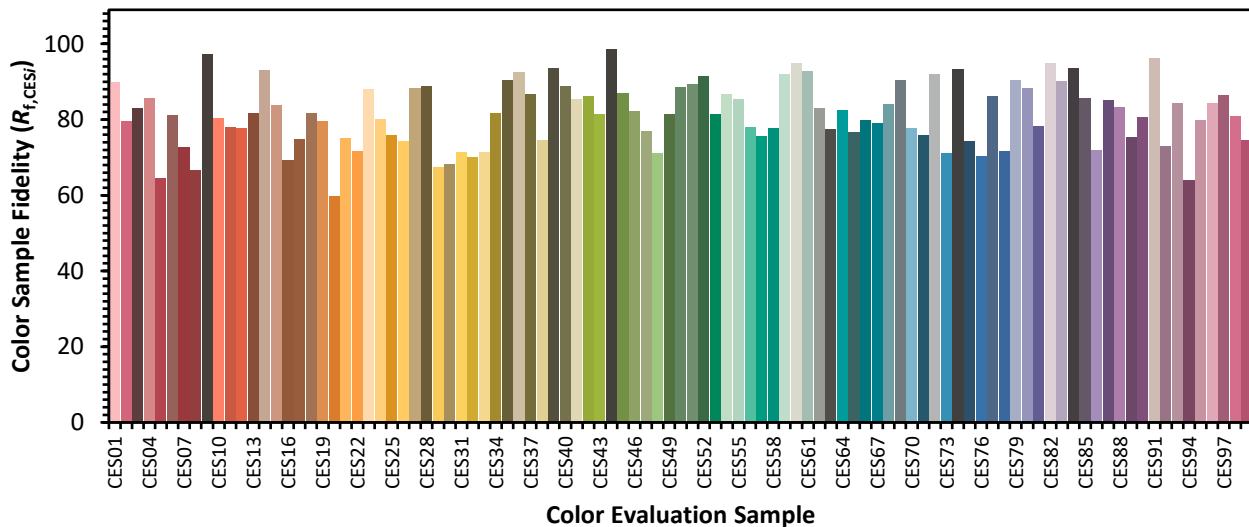


Color Vector Graphics

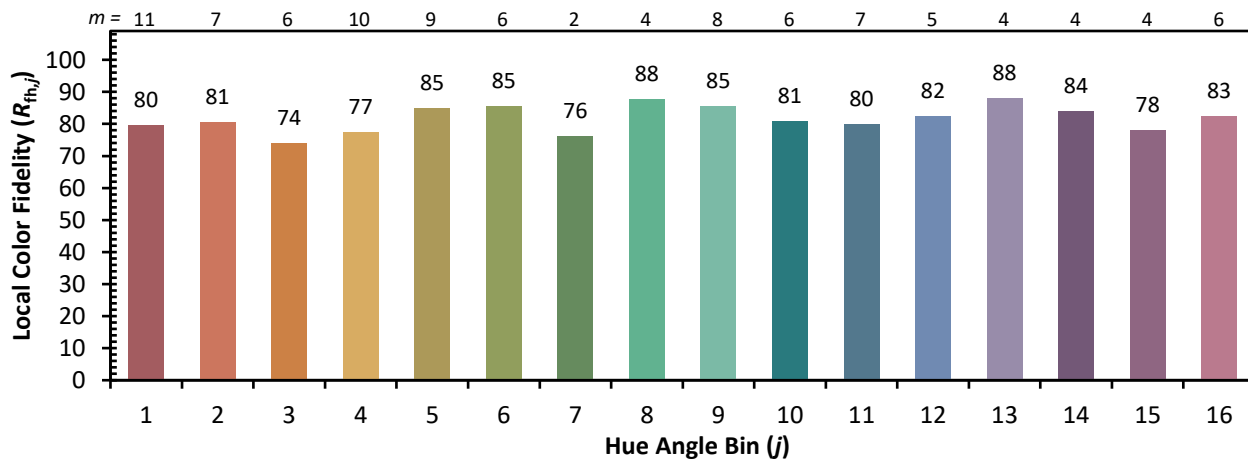
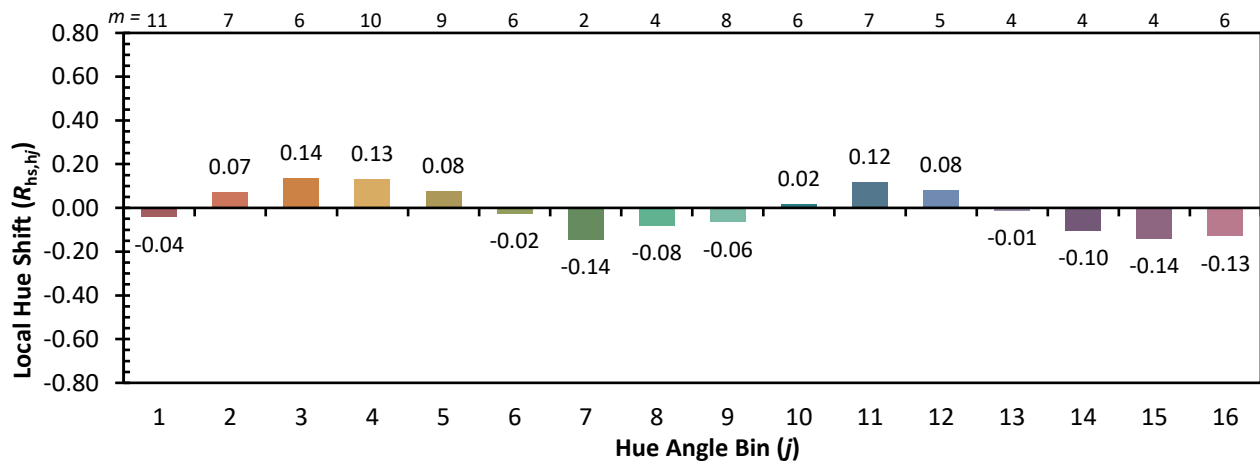
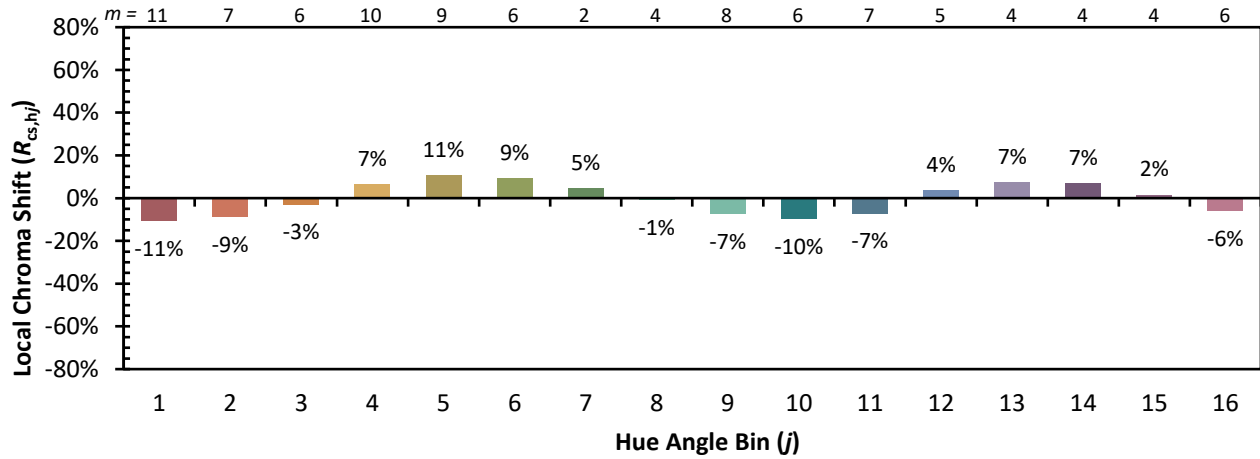


Individual Sample Fidelity Index ($R_{f,i}$)

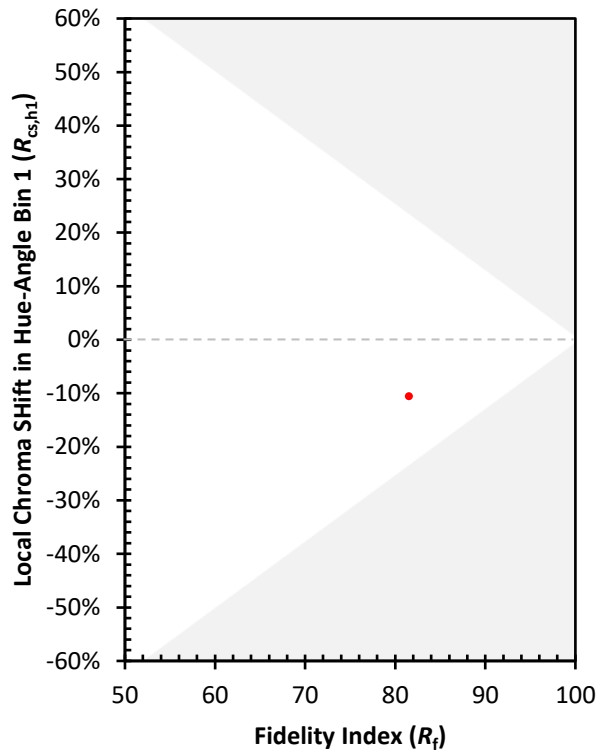
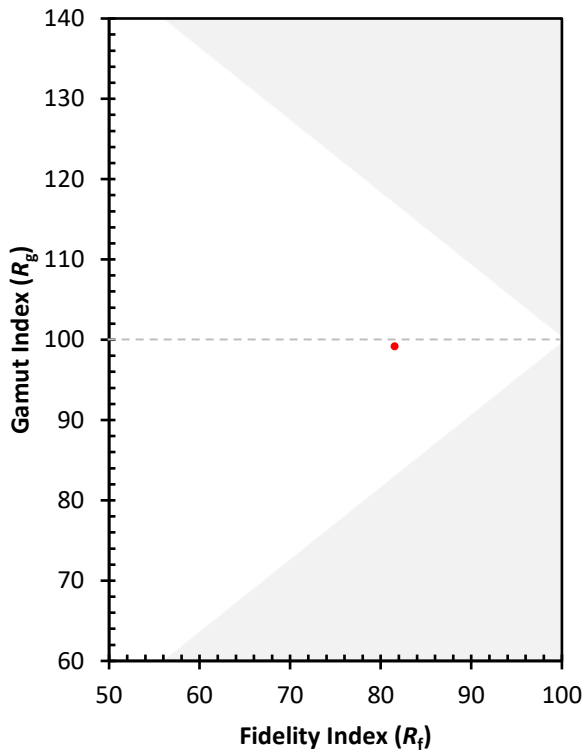
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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