

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: P320471

Luminaire Tested: **GLEON-SA7A-830-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320471  
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-SA7A-830-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 23018 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

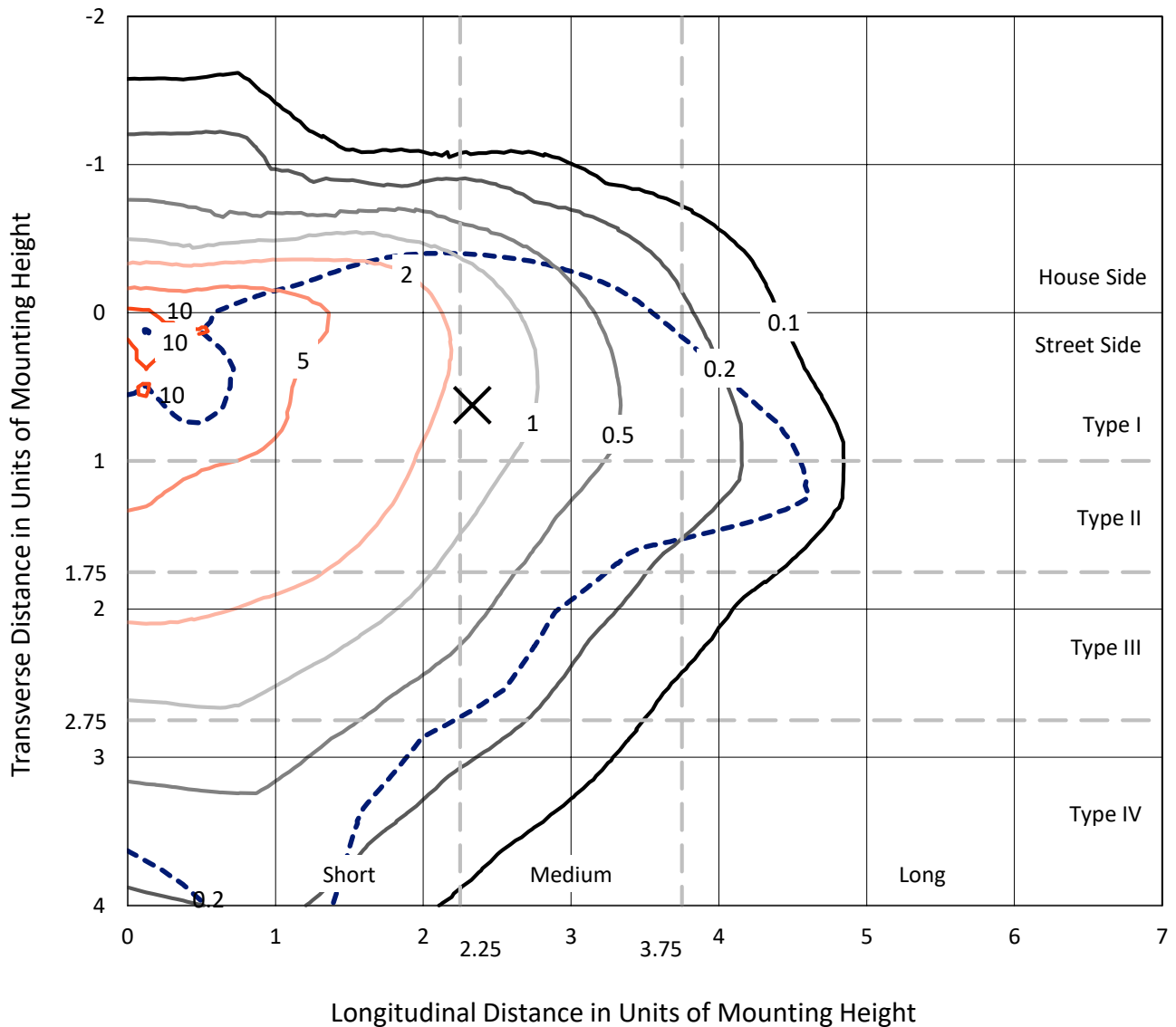
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

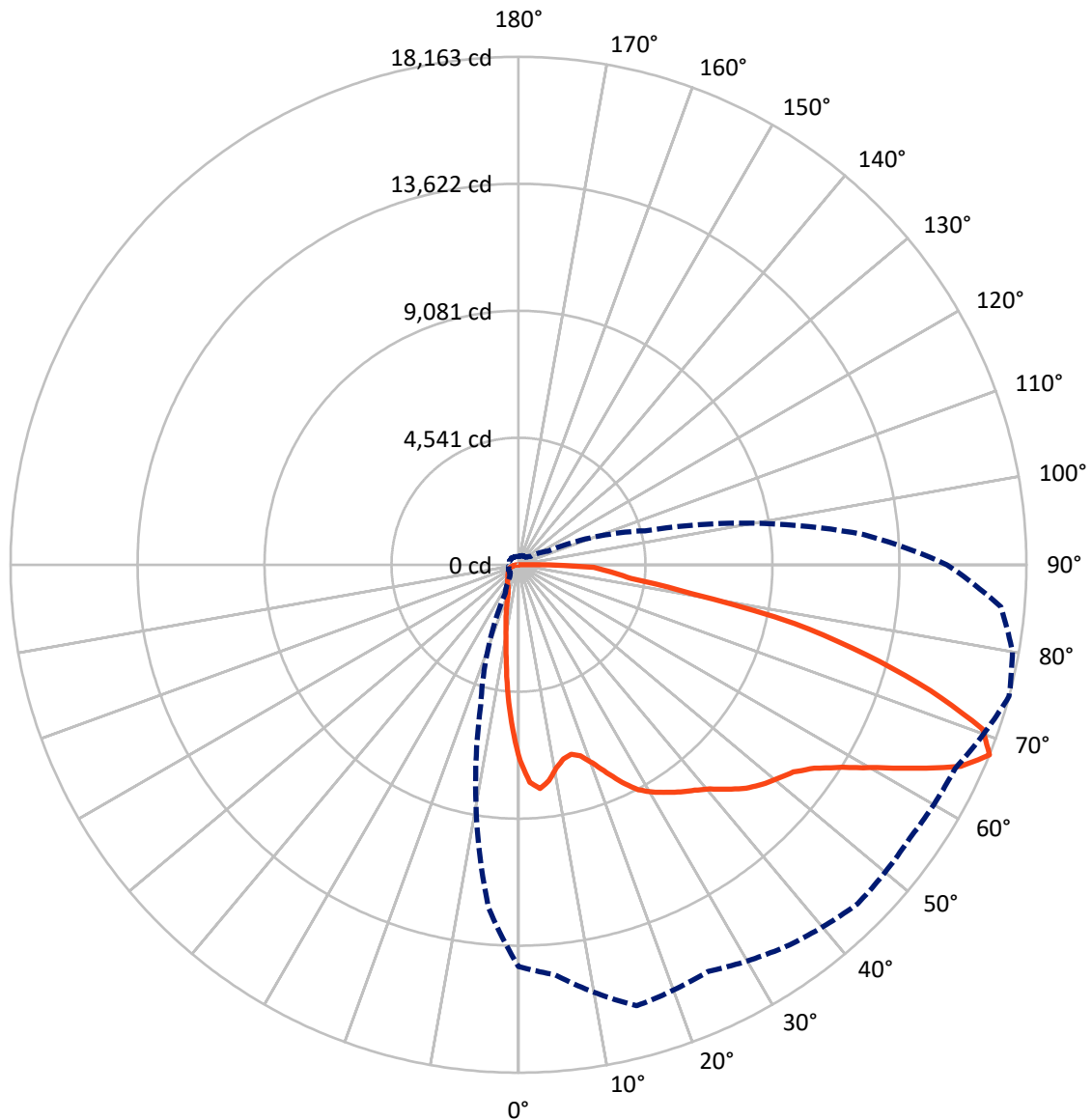
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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
<b>House Side</b>	Lumens	4054.0	0.0	4054.0
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	18964.0	0.0	18964.0
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	23018.0	0.0	23018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.2	2.4
10°-20°	1124.3	4.9
20°-30°	1599.0	6.9
30°-40°	2304.2	10.0
40°-50°	3247.2	14.1
50°-60°	4514.2	19.6
60°-70°	5459.0	23.7
70°-80°	3355.6	14.6
80°-90°	873.2	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°	23018.0	100.0
0°-180°	23018.0	100.0

**Coefficient of Utilization**

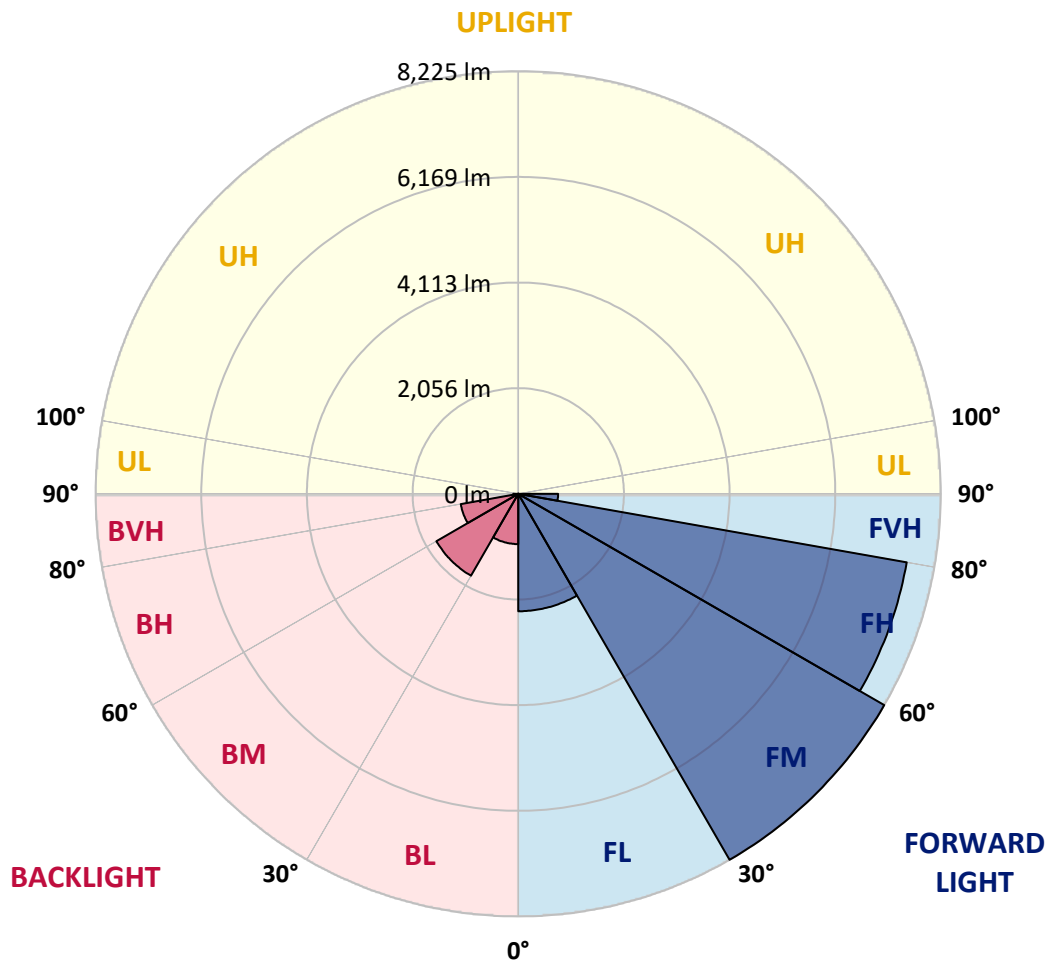


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2285.5	9.9			
FM (30°-60°)	8225.4	35.7			
FH (60°-80°)	7678.0	33.4			G4/12000
FVH (80°-90°)	775.1	3.4			G5
BL (0°-30°)	979.1	4.3	B2/1000		
BM (30°-60°)	1840.2	8.0	B2/2500		
BH (60°-80°)	1136.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	98.1	0.4			G1/100
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°	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5
2.5°	7474.5	7573.0	7641.1	7708.3	7760.7	7812.3	7887.7	7963.2	7977.9	7991.7	7962.3
5°	7430.3	7670.5	7874.8	8078.2	8266.9	8455.5	8568.7	8681.9	8704.9	8727.9	8657.1
7.5°	6954.6	7308.9	7663.2	8017.5	8342.3	8667.2	8865.1	9062.0	9107.1	9151.3	9035.3
10°	6413.4	6825.7	7261.0	7696.3	8124.2	8552.2	8838.4	9124.6	9181.6	9238.7	9094.2
12.5°	6002.1	6452.1	6916.8	7381.6	7833.4	8284.4	8580.7	8877.0	8947.9	9018.8	8913.8
15°	5843.8	6337.1	6774.2	7211.3	7605.2	7998.2	8241.1	8483.2	8512.6	8541.1	8524.6
17.5°	6002.1	6546.0	6941.7	7336.5	7550.9	7764.4	7862.0	7958.6	7990.8	8022.1	8064.4
20°	6465.0	7052.1	7331.0	7608.9	7599.7	7589.6	7542.6	7494.8	7486.5	7478.2	7597.8
22.5°	7125.7	7807.7	7919.0	8029.5	7770.9	7512.3	7354.9	7196.6	7165.3	7133.1	7260.1
25°	7901.5	8627.6	8607.4	8586.2	8093.9	7600.6	7300.6	7000.6	6965.6	6930.6	7039.2
27.5°	8745.4	9439.3	9306.8	9174.3	8505.2	7836.2	7400.9	6965.6	6930.6	6895.7	6991.4
30°	9405.3	10034.7	9822.2	9609.6	8852.2	8094.8	7577.6	7060.4	7003.3	6945.4	7063.2
32.5°	9963.9	10499.5	10214.2	9928.9	9133.8	8338.7	7779.1	7219.6	7130.3	7041.1	7198.4
35°	10545.5	10963.3	10562.1	10159.9	9385.0	8609.2	8017.5	7424.8	7315.3	7205.8	7422.1
37.5°	11199.8	11546.8	10970.7	10393.7	9667.6	8941.5	8374.6	7806.7	7694.5	7582.2	7858.3
40°	11891.0	12179.9	11411.5	10643.1	9976.8	9310.5	8868.7	8426.1	8319.3	8211.7	8546.7
42.5°	12495.6	12706.3	11821.9	10937.5	10349.5	9760.5	9449.4	9137.5	9136.6	9134.7	9474.3
45°	12951.1	13134.3	12164.3	11193.4	10713.0	10231.7	10069.7	9907.7	10037.5	10167.3	10474.6
47.5°	13329.4	13453.6	12451.4	11448.3	11129.0	10809.6	10833.5	10857.5	11121.6	11385.7	11583.6
50°	13761.9	13661.6	12711.8	11761.2	11662.7	11564.3	11779.6	11994.0	12297.7	12600.5	12734.8
52.5°	14230.3	13964.3	13065.2	12165.2	12275.6	12386.1	12824.1	13262.2	13568.6	13875.1	13925.7
55°	15072.4	14664.7	13714.9	12764.3	12976.9	13188.5	13831.8	14474.2	14713.5	14952.7	14971.1
57.5°	16021.2	15659.5	14625.1	13590.7	13818.9	14047.2	14789.8	15531.6	15790.2	16047.9	16012.0
60°	16386.5	16404.0	15489.3	14573.6	14803.6	15033.7	15757.1	16480.4	16777.6	17074.0	16994.8
62.5°	16018.4	16450.0	15961.4	15471.8	15680.7	15888.7	16597.3	17305.9	17610.5	17915.1	17777.1
65°	15290.5	15718.4	15937.4	16156.5	16225.5	16294.5	16956.2	17616.9	17850.7	18083.5	18013.6
67.5°	14364.7	14710.7	15518.7	16325.8	16186.8	16047.9	16358.0	16668.1	16908.3	17148.5	17108.9
70°	13292.5	13704.8	14782.5	15860.1	15177.3	14493.5	14365.6	14237.7	14497.2	14755.8	14595.7
72.5°	11370.1	11992.2	13141.6	14290.1	13032.1	11774.1	11336.9	10899.8	11228.3	11556.9	11302.0
75°	8588.1	9413.6	10683.5	11952.6	10451.6	8950.7	8367.2	7783.7	8066.3	8348.8	8173.9
77.5°	5972.6	7007.9	8258.6	9509.3	7983.4	6456.7	6023.2	5588.9	5673.5	5757.3	5727.8
80°	4072.2	4753.3	5625.7	6497.2	5481.2	4465.2	4499.3	4532.4	4492.8	4452.3	4511.2
82.5°	2553.8	3033.2	3706.9	4379.6	3840.3	3301.0	3610.3	3919.5	3767.6	3614.9	3671.9
85°	1438.4	1731.0	2390.0	3048.0	2840.9	2632.9	2814.2	2994.6	2759.0	2523.4	2627.4
87.5°	274.2	456.5	1322.4	2187.5	1986.0	1784.4	1550.7	1316.9	1004.9	693.0	1012.3
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



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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°	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5
2.5°	7932.8	7917.2	7901.5	7845.4	7788.3	7703.7	7633.7	7512.3	7446.0	7345.7	7245.4
5°	8585.3	8485.9	8386.5	8215.3	8043.3	7851.8	7631.9	7388.0	7204.0	6964.7	6725.4
7.5°	8919.4	8687.5	8454.6	8126.1	7796.6	7500.3	7152.4	6828.5	6552.4	6241.3	5930.3
10°	8949.7	8601.9	8253.1	7826.1	7398.1	7038.3	6638.0	6278.2	5946.9	5589.8	5231.8
12.5°	8808.0	8438.1	8067.2	7596.9	7125.7	6717.1	6286.4	5883.4	5516.2	5123.2	4729.3
15°	8508.0	8212.6	7916.3	7475.4	7034.6	6622.3	6204.5	5726.9	5311.9	4909.7	4506.6
17.5°	8105.8	7966.0	7825.1	7506.7	7187.4	6830.3	6425.4	5865.0	5379.0	4941.9	4504.8
20°	7716.6	7768.1	7818.7	7691.7	7564.7	7278.5	6925.1	6295.6	5675.4	5103.9	4531.5
22.5°	7386.2	7633.7	7880.4	7978.8	8076.4	7904.3	7628.2	6900.3	6079.4	5333.0	4586.7
25°	7146.9	7557.3	7967.8	8295.4	8622.1	8545.7	8333.1	7634.7	6615.0	5663.4	4710.9
27.5°	7087.1	7590.5	8093.9	8601.9	9108.9	9179.8	9120.9	8408.6	7253.7	6073.9	4893.1
30°	7181.0	7690.8	8199.7	8818.1	9435.6	9718.2	9797.3	9053.7	7983.4	6552.4	5120.4
32.5°	7355.8	7855.5	8355.2	9028.9	9701.6	10128.6	10380.8	9643.6	8492.4	6913.2	5333.0
35°	7638.3	8105.8	8573.3	9274.6	9975.8	10528.0	10988.2	10252.9	8944.2	7165.3	5385.5
37.5°	8133.4	8535.6	8937.8	9585.6	10232.6	10948.6	11639.7	10923.7	9432.9	7408.3	5382.7
40°	8881.6	9166.0	9449.4	9997.0	10543.7	11444.6	12377.8	11671.9	9973.1	7671.5	5369.8
42.5°	9813.9	9960.2	10105.6	10539.1	10972.5	11962.7	13047.7	12403.5	10488.4	7916.3	5344.1
45°	10781.1	10819.7	10858.4	11131.7	11404.1	12373.2	13504.2	12953.0	10938.5	8128.8	5318.3
47.5°	11780.5	11648.0	11515.5	11624.1	11732.7	12687.9	13830.0	13369.8	11390.3	8364.4	5337.6
50°	12869.2	12500.2	12131.1	12074.1	12017.0	13002.7	14213.7	13899.9	11933.3	8707.7	5482.1
52.5°	13975.4	13367.1	12758.8	12533.3	12306.9	13378.1	14722.7	14559.8	12708.2	9239.6	5770.2
55°	14989.5	14215.6	13441.6	13137.9	12834.2	13952.4	15343.8	15528.8	13701.1	9919.7	6137.4
57.5°	15975.2	15098.1	14221.1	13939.5	13657.9	14796.3	16130.7	16398.5	14704.3	10572.2	6439.2
60°	16915.7	16047.9	15179.1	14953.6	14727.3	15845.4	16981.0	16785.9	15221.4	10877.7	6533.1
62.5°	17639.0	16948.8	16258.6	16139.9	16020.3	16906.5	17634.4	16635.0	14892.9	10576.8	6260.7
65°	17943.6	17550.7	17156.8	17268.2	17378.6	17709.0	17797.3	16193.3	13860.4	9733.8	5607.3
67.5°	17068.5	17148.5	17228.6	17696.1	18162.7	17935.4	17313.2	15322.7	12390.7	8539.3	4687.9
70°	14434.6	14915.0	15394.5	16500.6	17605.9	17101.6	16016.6	13760.0	10621.9	7163.5	3704.1
72.5°	11046.1	11586.3	12125.6	13767.4	15408.3	14943.5	13614.6	11302.0	8516.3	5720.5	2923.7
75°	7998.2	8608.3	9217.5	11028.6	12839.8	12194.6	10183.8	8092.0	6468.7	4366.7	2263.9
77.5°	5697.5	6106.1	6514.7	8303.7	10091.8	9040.8	6778.8	5445.3	4477.2	3035.1	1592.1
80°	4570.1	4445.0	4319.8	5316.5	6313.1	6138.3	4483.6	3497.1	3098.6	2033.8	969.1
82.5°	3728.1	3422.5	3117.0	3586.3	4055.7	4029.9	3111.5	2565.7	2306.2	1413.6	520.9
85°	2730.5	2608.1	2485.7	2900.7	3315.8	2961.5	2107.4	1630.7	1798.2	1040.8	283.4
87.5°	1331.6	1521.2	1709.9	2199.5	2688.1	2018.2	639.6	316.6	438.1	288.0	137.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320471  
 CATALOG NUMBER: GLEON-SA7A-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: P320471  
 CATALOG NUMBER: GLEON-SA7A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5
2.5°	7170.8	7095.4	7009.8	6924.2	6826.6	6728.2	6670.2	6611.3	6547.8	6484.3	6412.5
5°	6567.1	6408.8	6229.4	6049.9	5872.3	5694.7	5599.0	5503.3	5402.0	5299.9	5211.6
7.5°	5700.2	5469.2	5220.8	4971.4	4750.5	4528.7	4391.6	4253.5	4128.4	4002.3	3896.5
10°	4937.3	4642.8	4393.4	4143.1	3976.5	3810.0	3683.9	3557.8	3436.3	3313.9	3197.1
12.5°	4434.8	4140.3	3982.1	3823.8	3685.7	3547.7	3402.3	3256.0	3089.4	2921.9	2799.5
15°	4238.8	3971.0	3795.2	3618.5	3433.6	3247.7	3069.1	2890.6	2693.7	2496.7	2357.8
17.5°	4154.1	3803.5	3557.8	3311.2	3067.3	2823.4	2616.4	2409.3	2194.0	1978.6	1837.8
20°	4064.9	3598.3	3268.8	2938.5	2625.6	2312.7	2078.0	1843.3	1651.0	1458.6	1351.0
22.5°	3983.9	3380.2	2967.0	2552.9	2182.9	1813.0	1582.9	1351.9	1234.1	1116.3	1073.0
25°	3950.8	3189.7	2681.7	2173.7	1783.5	1392.4	1228.6	1064.8	1019.7	973.7	951.6
27.5°	3956.3	3019.4	2441.5	1862.6	1511.1	1159.6	1047.3	935.0	907.4	878.9	865.1
30°	3977.5	2834.5	2215.1	1595.8	1305.9	1016.0	943.3	869.7	840.2	810.8	793.3
32.5°	4001.4	2668.8	2040.3	1410.8	1174.3	936.8	877.0	816.3	787.8	759.2	741.7
35°	3960.0	2533.5	1920.6	1307.7	1089.6	870.6	820.0	768.4	737.1	705.9	689.3
37.5°	3890.0	2397.3	1827.7	1257.1	1034.4	810.8	774.0	736.2	704.0	670.9	655.2
40°	3826.5	2282.3	1758.7	1234.1	1004.0	773.0	741.7	710.5	677.3	643.3	624.9
42.5°	3775.0	2205.0	1690.6	1176.1	976.4	775.8	731.6	686.5	654.3	622.1	601.9
45°	3736.3	2154.4	1637.2	1120.0	950.7	781.3	725.2	669.0	636.8	603.7	579.8
47.5°	3732.7	2127.7	1599.4	1071.2	901.9	731.6	708.6	685.6	638.7	590.8	563.2
50°	3783.3	2084.4	1555.3	1025.2	854.9	684.7	716.0	746.3	666.3	585.3	550.3
52.5°	3889.1	2008.1	1485.3	962.6	797.9	632.2	681.0	728.9	659.8	589.9	544.8
55°	4017.0	1895.8	1379.5	862.3	722.4	581.6	624.9	667.2	624.0	579.8	525.5
57.5°	4097.1	1754.1	1246.1	738.1	637.8	537.4	562.3	586.2	568.7	551.2	496.0
60°	4049.2	1565.4	1096.1	625.8	563.2	500.6	496.0	490.5	516.3	542.0	478.5
62.5°	3815.5	1370.3	963.5	556.8	509.8	462.0	451.9	440.8	483.1	524.6	457.4
65°	3420.7	1234.1	879.8	525.5	473.0	420.6	409.5	398.5	411.4	424.2	393.0
67.5°	2919.1	1150.4	831.9	513.5	450.0	385.6	372.7	359.8	357.1	354.3	343.3
70°	2401.9	1098.8	800.6	502.5	425.2	346.9	335.0	323.0	319.3	314.7	306.5
72.5°	2008.1	1092.4	797.0	501.6	404.9	308.3	297.3	286.2	281.6	276.1	269.6
75°	1644.5	1025.2	756.5	487.7	377.3	266.0	255.8	245.7	242.0	237.4	231.9
77.5°	1220.3	848.5	635.9	423.3	323.0	222.7	212.6	201.5	200.6	198.8	194.2
80°	791.4	613.8	454.6	295.4	235.6	174.9	166.6	157.4	158.3	159.2	155.5
82.5°	439.9	358.0	277.9	197.9	161.0	124.2	120.6	116.0	118.7	120.6	116.0
85°	231.9	180.4	149.1	117.8	92.9	68.1	68.1	67.2	70.9	74.5	70.9
87.5°	100.3	63.5	54.3	44.2	24.8	4.6	5.5	5.5	7.4	9.2	8.3
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: P320471  
 CATALOG NUMBER: GLEON-SA7A-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: P320471  
 CATALOG NUMBER: GLEON-SA7A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5
2.5°	6339.8	6272.6	6204.5	6130.0	6143.8	6086.7	6029.7	5993.8	5957.9	5946.9	5935.8
5°	5123.2	5046.8	4969.5	4900.5	4960.3	4919.8	4879.3	4873.8	4867.4	4867.4	4866.4
7.5°	3790.6	3708.7	3625.9	3568.8	3627.7	3620.4	3613.0	3652.6	3692.2	3724.4	3755.7
10°	3080.2	2980.8	2880.5	2795.8	2781.1	2738.8	2695.5	2704.7	2713.0	2748.0	2782.9
12.5°	2677.1	2558.4	2439.7	2340.3	2295.2	2225.2	2154.4	2110.2	2066.0	2070.6	2074.3
15°	2217.9	2102.8	1986.9	1901.3	1872.8	1818.5	1764.2	1709.0	1652.8	1629.8	1605.9
17.5°	1696.1	1604.0	1511.1	1454.0	1454.0	1438.4	1422.8	1395.1	1366.6	1343.6	1319.7
20°	1243.3	1194.5	1144.8	1120.9	1128.3	1129.2	1129.2	1143.0	1156.8	1149.4	1142.1
22.5°	1028.9	1011.4	993.9	983.8	987.5	988.4	989.3	1002.2	1014.1	1023.4	1031.6
25°	928.6	917.5	906.5	902.8	911.1	912.0	912.0	920.3	928.6	937.8	947.0
27.5°	850.3	845.7	841.1	834.7	843.0	843.0	842.1	851.3	859.5	867.8	875.2
30°	775.8	777.6	778.6	776.7	782.2	785.9	788.7	795.1	800.6	807.1	813.5
32.5°	723.3	720.6	717.8	716.0	727.9	734.4	740.8	747.3	752.8	755.6	758.3
35°	672.7	666.3	659.8	655.2	666.3	674.6	682.8	694.8	705.9	707.7	709.5
37.5°	638.7	630.4	622.1	616.6	621.2	624.9	628.6	641.4	654.3	661.7	668.1
40°	606.5	598.2	589.9	585.3	588.1	589.0	589.9	596.3	601.9	615.7	628.6
42.5°	580.7	570.6	560.5	554.9	556.8	558.6	559.5	558.6	557.7	570.6	583.5
45°	554.9	543.9	532.8	526.4	527.3	527.3	527.3	525.5	522.7	529.2	535.6
47.5°	534.7	521.8	508.9	502.5	500.6	498.8	497.0	496.0	494.2	498.8	502.5
50°	514.4	500.6	485.9	478.5	473.9	472.1	470.3	469.3	467.5	472.1	475.8
52.5°	498.8	482.2	465.7	453.7	449.1	446.3	443.6	444.5	444.5	446.3	447.3
55°	471.2	456.5	440.8	432.5	424.2	422.4	420.6	423.3	425.2	425.2	425.2
57.5°	440.8	427.0	412.3	406.8	399.4	399.4	398.5	402.2	404.9	406.8	408.6
60°	414.1	398.5	382.8	378.2	375.5	374.6	373.6	378.2	381.9	385.6	389.3
62.5°	389.3	372.7	356.1	350.6	349.7	350.6	350.6	355.2	358.9	362.6	366.3
65°	361.7	345.1	327.6	322.1	323.9	326.7	329.5	333.1	335.9	339.6	343.3
67.5°	331.3	317.5	302.8	297.3	298.2	301.9	305.5	308.3	310.1	313.8	317.5
70°	298.2	286.2	274.2	270.6	269.6	274.2	277.9	279.8	281.6	286.2	289.9
72.5°	262.3	252.2	242.0	239.3	240.2	243.0	245.7	248.5	250.3	254.9	258.6
75°	225.5	216.3	207.1	205.2	207.1	209.8	212.6	214.4	216.3	221.8	226.4
77.5°	189.6	179.5	168.4	167.5	170.3	173.0	174.9	177.6	180.4	187.7	195.1
80°	151.8	140.8	128.8	127.9	130.7	133.4	136.2	139.0	141.7	150.9	159.2
82.5°	111.4	98.5	85.6	83.7	92.9	95.7	98.5	103.1	106.8	115.0	123.3
85°	67.2	54.3	41.4	40.5	48.8	53.4	58.0	63.5	68.1	75.5	82.8
87.5°	7.4	3.7	0.0	0.0	0.9	4.6	8.3	12.9	17.5	24.8	31.3
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: P320471  
 CATALOG NUMBER: GLEON-SA7A-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: P320471  
 CATALOG NUMBER: GLEON-SA7A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5
2.5°	5895.3	5853.9	5896.2	5937.7	5955.1	5972.6	5927.5	5881.5	5953.3	6024.2	6042.6
5°	4829.6	4791.9	4820.4	4848.0	4786.4	4724.7	4718.3	4710.9	4764.3	4817.7	4826.0
7.5°	3743.7	3731.7	3758.4	3785.1	3706.9	3627.7	3589.1	3550.4	3563.3	3576.2	3574.4
10°	2791.2	2798.6	2831.7	2863.9	2803.2	2742.4	2715.7	2689.1	2718.5	2747.0	2773.7
12.5°	2090.9	2106.5	2141.5	2175.5	2150.7	2124.9	2127.7	2130.5	2164.5	2197.6	2227.1
15°	1624.3	1642.7	1667.5	1691.5	1692.4	1692.4	1716.3	1739.3	1736.6	1733.8	1754.1
17.5°	1344.5	1368.5	1371.2	1374.0	1374.9	1375.8	1374.0	1372.1	1358.3	1344.5	1360.2
20°	1151.3	1159.6	1166.9	1173.4	1165.1	1155.9	1132.9	1109.9	1100.7	1091.5	1106.2
22.5°	1047.3	1062.0	1054.6	1046.4	1029.8	1012.3	994.8	976.4	975.5	973.7	981.9
25°	959.9	971.8	958.9	946.0	934.1	922.1	910.2	898.2	897.3	896.4	900.0
27.5°	887.2	898.2	886.2	874.3	864.1	854.0	844.8	835.6	833.8	831.9	832.9
30°	824.6	834.7	824.6	813.5	806.2	797.9	791.4	785.0	784.1	783.2	783.2
32.5°	768.4	778.6	771.2	763.8	757.4	750.9	746.3	741.7	737.1	732.5	722.4
35°	719.7	729.8	725.2	719.7	712.3	704.9	696.7	687.4	675.5	662.6	657.1
37.5°	678.2	688.4	683.8	679.2	669.0	658.9	644.2	628.6	624.9	620.3	619.3
40°	645.1	660.8	651.6	641.4	625.8	610.1	602.8	595.4	593.6	591.7	589.9
42.5°	608.3	632.2	615.7	599.1	584.4	569.7	567.8	566.0	565.1	564.1	564.1
45°	562.3	588.1	571.5	554.0	545.7	537.4	537.4	537.4	538.4	538.4	540.2
47.5°	519.0	534.7	526.4	518.1	513.5	508.9	509.8	510.8	513.5	515.4	520.0
50°	482.2	487.7	489.6	490.5	487.7	485.0	486.8	487.7	490.5	492.4	496.0
52.5°	455.5	463.8	463.8	462.9	462.9	462.9	464.7	466.6	469.3	472.1	475.8
55°	438.1	450.0	446.3	442.7	443.6	443.6	445.4	447.3	450.0	451.9	457.4
57.5°	421.5	434.4	430.7	427.0	427.0	427.0	427.9	428.9	431.6	433.5	437.1
60°	402.2	415.0	411.4	406.8	407.7	408.6	409.5	409.5	411.4	412.3	412.3
62.5°	379.2	392.0	388.4	383.8	386.5	388.4	388.4	388.4	390.2	391.1	388.4
65°	355.2	367.2	363.5	359.8	363.5	366.3	368.1	369.0	368.1	367.2	364.4
67.5°	329.5	341.4	337.7	333.1	337.7	341.4	345.1	347.9	345.1	342.3	338.7
70°	301.9	313.8	309.2	304.6	309.2	313.8	317.5	321.2	317.5	313.8	312.9
72.5°	272.4	286.2	280.7	275.2	280.7	286.2	288.0	289.9	287.1	284.4	282.5
75°	240.2	254.0	249.4	243.9	248.5	253.1	254.0	254.9	254.9	254.0	248.5
77.5°	206.1	217.2	214.4	211.7	214.4	217.2	217.2	217.2	218.1	218.1	210.7
80°	165.7	172.1	173.0	173.9	174.9	175.8	174.9	173.9	172.1	170.3	165.7
82.5°	123.3	123.3	130.7	137.1	137.1	136.2	135.3	133.4	129.8	125.2	115.0
85°	78.2	73.6	85.6	96.6	96.6	95.7	93.9	91.1	83.7	75.5	67.2
87.5°	26.7	22.1	34.1	46.0	46.9	46.9	45.1	43.3	35.9	27.6	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320471  
 CATALOG NUMBER: GLEON-SA7A-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: P320471

CATALOG NUMBER: GLEON-SA7A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5
2.5°	6070.2	6082.1	6093.2	6183.4	6272.6	6377.5	6482.5	6562.5	6641.7	6723.6	6805.5
5°	4854.5	4869.2	4883.9	4993.4	5102.0	5248.4	5394.7	5520.8	5646.8	5795.0	5943.2
7.5°	3598.3	3630.5	3661.8	3778.7	3894.6	4052.0	4208.4	4373.2	4537.0	4730.2	4923.5
10°	2826.2	2886.9	2946.7	3066.4	3186.0	3341.5	3496.1	3668.2	3840.3	4030.8	4220.4
12.5°	2287.8	2368.8	2448.9	2592.4	2736.0	2921.9	3106.9	3298.3	3488.8	3656.3	3823.8
15°	1807.4	1895.8	1983.2	2135.1	2286.9	2491.2	2694.6	2903.5	3111.5	3312.1	3512.7
17.5°	1409.9	1482.6	1554.4	1683.2	1811.1	2009.0	2206.8	2425.9	2644.9	2889.7	3133.6
20°	1137.5	1167.8	1198.2	1291.2	1383.2	1544.2	1704.4	1928.0	2151.6	2444.3	2736.9
22.5°	996.7	1012.3	1027.0	1072.1	1116.3	1220.3	1323.4	1521.2	1718.2	2037.5	2355.9
25°	912.0	924.0	935.9	965.4	994.8	1044.5	1094.2	1233.2	1372.1	1686.0	1998.9
27.5°	835.6	854.0	871.5	885.3	898.2	932.2	965.4	1056.5	1147.6	1440.2	1732.0
30°	780.4	786.8	793.3	814.4	834.7	869.7	904.6	968.1	1031.6	1279.2	1525.8
32.5°	716.0	725.2	734.4	756.5	778.6	810.8	843.0	894.5	945.1	1156.8	1367.5
35°	658.0	667.2	676.4	698.5	719.7	754.6	788.7	831.9	874.3	1058.3	1242.4
37.5°	622.1	631.3	640.5	659.8	678.2	713.2	747.3	781.3	814.4	984.7	1155.0
40°	591.7	600.9	610.1	628.6	646.0	680.1	713.2	741.7	770.3	929.5	1088.7
42.5°	565.1	575.2	585.3	603.7	621.2	651.6	681.9	719.7	756.5	881.6	1005.9
45°	543.0	553.1	562.3	582.5	602.8	632.2	661.7	714.1	766.6	856.8	947.0
47.5°	522.7	533.8	543.9	566.0	588.1	624.9	660.8	704.9	748.2	837.5	926.7
50°	503.4	516.3	529.2	555.8	581.6	643.3	704.0	710.5	716.0	821.8	926.7
52.5°	485.0	499.7	514.4	547.6	579.8	651.6	723.3	700.3	676.4	792.4	908.3
55°	466.6	479.5	491.4	531.9	572.4	624.9	677.3	647.0	615.7	737.1	858.6
57.5°	441.7	455.5	468.4	511.7	554.9	591.7	627.6	600.0	571.5	674.6	776.7
60°	416.0	431.6	447.3	502.5	556.8	550.3	543.0	537.4	531.0	604.6	678.2
62.5°	393.0	409.5	426.1	497.9	569.7	525.5	481.3	485.9	489.6	543.9	598.2
65°	370.0	386.5	402.2	438.1	473.9	456.5	439.0	446.3	452.8	506.2	559.5
67.5°	344.2	358.9	372.7	384.7	396.6	398.5	400.3	407.7	415.0	478.5	541.1
70°	315.7	327.6	339.6	347.9	355.2	358.9	361.7	370.9	380.1	449.1	518.1
72.5°	283.4	293.6	302.8	310.1	317.5	320.3	322.1	331.3	340.5	414.1	487.7
75°	248.5	256.8	264.1	270.6	277.0	280.7	284.4	290.8	297.3	377.3	456.5
77.5°	209.8	218.1	225.5	231.0	235.6	239.3	242.0	250.3	258.6	325.8	392.0
80°	163.8	173.9	183.1	187.7	191.4	192.3	192.3	199.7	207.1	254.9	301.9
82.5°	116.0	127.0	137.1	140.8	144.5	144.5	144.5	152.8	161.0	193.3	224.5
85°	68.1	80.1	91.1	94.8	98.5	100.3	101.2	104.9	107.7	130.7	152.8
87.5°	21.2	31.3	40.5	42.3	44.2	47.9	51.5	52.5	52.5	68.1	83.7
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: P320471  
 CATALOG NUMBER: GLEON-SA7A-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: P320471

CATALOG NUMBER: GLEON-SA7A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5	7012.5
2.5°	6899.3	6993.2	7102.7	7211.3	7304.3	7397.2	7474.5
5°	6131.8	6320.5	6551.5	6781.6	6986.8	7192.0	7430.3
7.5°	5167.4	5411.3	5710.3	6009.4	6299.3	6588.3	6954.6
10°	4468.9	4716.4	5033.0	5348.7	5674.5	5999.3	6413.4
12.5°	4025.3	4225.9	4532.4	4838.8	5221.7	5603.6	6002.1
15°	3732.7	3951.7	4249.9	4548.0	4966.8	5385.5	5843.8
17.5°	3420.7	3706.9	4088.8	4470.7	4966.8	5461.9	6002.1
20°	3094.0	3450.1	3945.2	4440.4	5108.5	5775.7	6465.0
22.5°	2768.2	3180.5	3815.5	4449.6	5322.9	6195.3	7125.7
25°	2474.6	2950.4	3736.3	4521.3	5634.9	6747.5	7901.5
27.5°	2251.9	2771.0	3704.1	4636.4	6030.6	7424.8	8745.4
30°	2054.1	2582.3	3665.5	4748.7	6411.6	8073.6	9405.3
32.5°	1882.9	2398.3	3590.9	4782.7	6677.6	8572.4	9963.9
35°	1748.5	2254.7	3465.8	4676.9	6844.1	9011.4	10545.5
37.5°	1632.6	2110.2	3323.1	4536.1	6992.3	9448.5	11199.8
40°	1522.1	1955.6	3200.7	4445.0	7196.6	9948.2	11891.0
42.5°	1417.2	1828.6	3102.3	4375.9	7386.2	10395.5	12495.6
45°	1339.0	1731.0	3014.8	4297.7	7508.6	10719.4	12951.1
47.5°	1300.4	1673.1	2967.9	4261.8	7631.0	10999.2	13329.4
50°	1294.8	1662.9	3021.3	4379.6	7896.0	11411.5	13761.9
52.5°	1293.9	1679.5	3175.0	4670.4	8388.4	12105.4	14230.3
55°	1274.6	1689.6	3358.1	5025.7	9049.1	13071.7	15072.4
57.5°	1215.7	1654.7	3546.8	5437.9	9747.6	14056.4	16021.2
60°	1124.6	1570.0	3702.3	5833.7	10217.0	14599.3	16386.5
62.5°	1010.5	1421.8	3753.8	6084.9	10204.1	14323.3	16018.4
65°	912.9	1266.3	3584.5	5901.8	9687.8	13472.9	15290.5
67.5°	826.4	1110.8	3161.2	5210.6	8759.2	12306.9	14364.7
70°	763.8	1008.6	2615.4	4222.2	7596.9	10970.7	13292.5
72.5°	724.3	959.9	2132.3	3303.8	6165.0	9025.2	11370.1
75°	670.0	883.5	1673.1	2461.8	4718.3	6974.8	8588.1
77.5°	568.7	744.5	1260.8	1777.1	3462.1	5146.2	5972.6
80°	439.0	575.2	866.9	1158.6	2382.6	3606.6	4072.2
82.5°	312.9	401.2	525.5	649.7	1582.9	2515.1	2553.8
85°	193.3	233.8	300.9	368.1	1047.3	1726.4	1438.4
87.5°	104.0	124.2	159.2	193.3	335.0	476.7	274.2
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: P320471  
 CATALOG NUMBER: GLEON-SA7A-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.

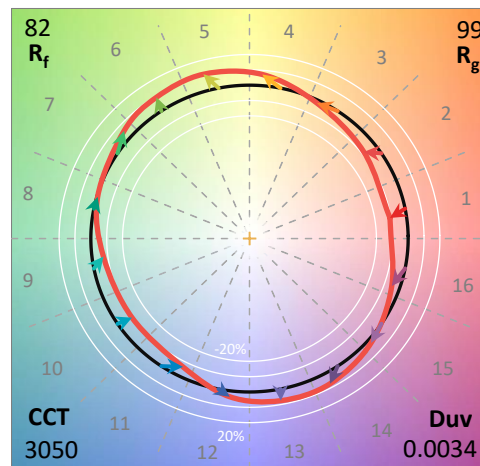
**Test Information**

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**

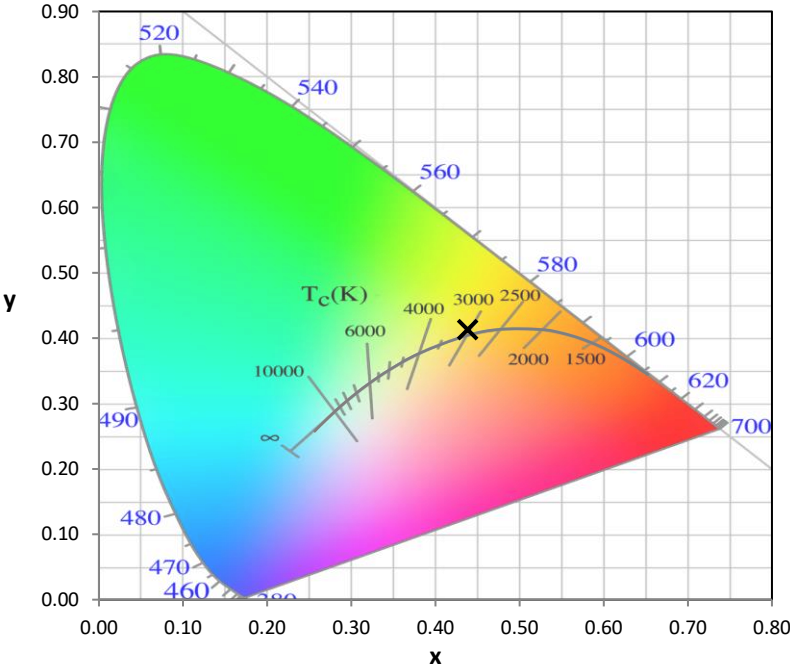
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

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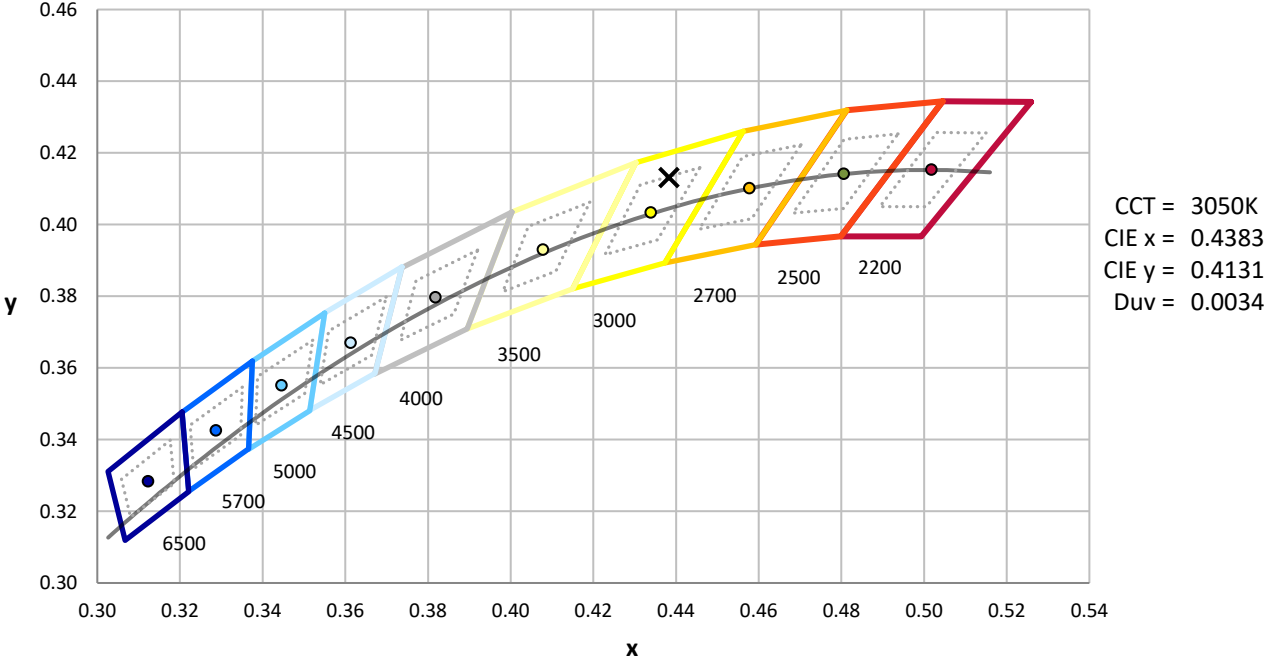
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



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



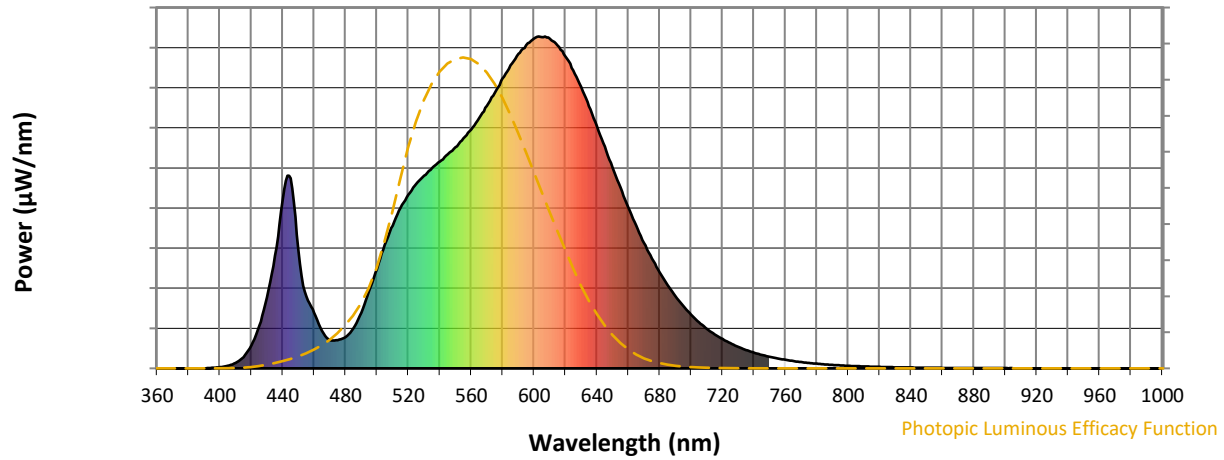
CCT = 3050K  
 CIE x = 0.4383  
 CIE y = 0.4131  
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle



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**Photopic Flux vs. Wavelength**

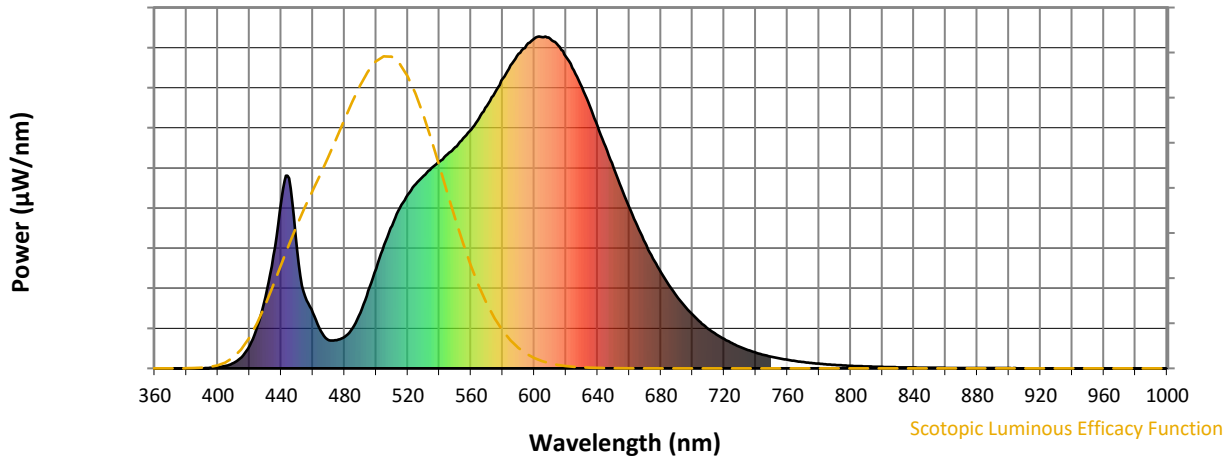


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



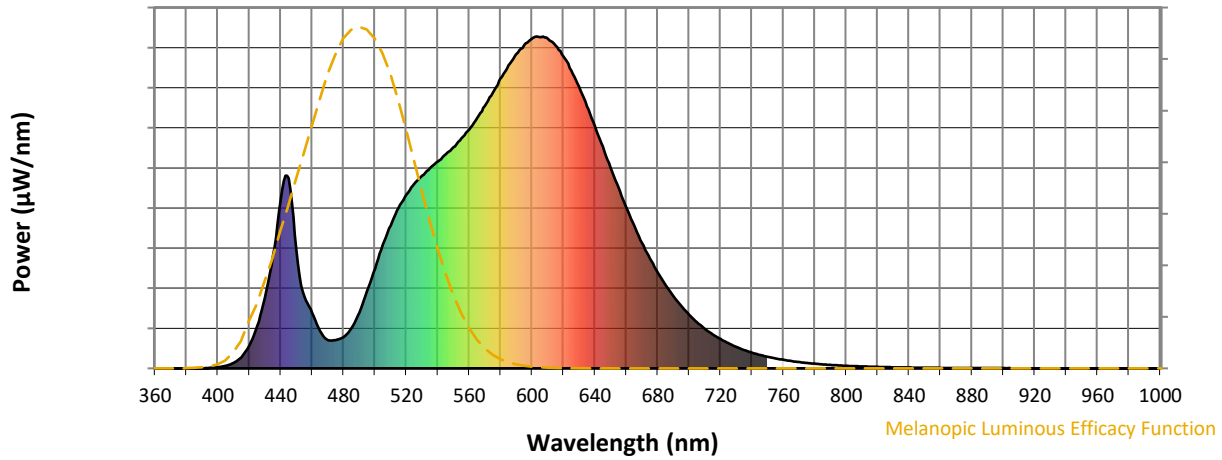
**Scotopic Lumens: NR**

**S/P: 1.27**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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



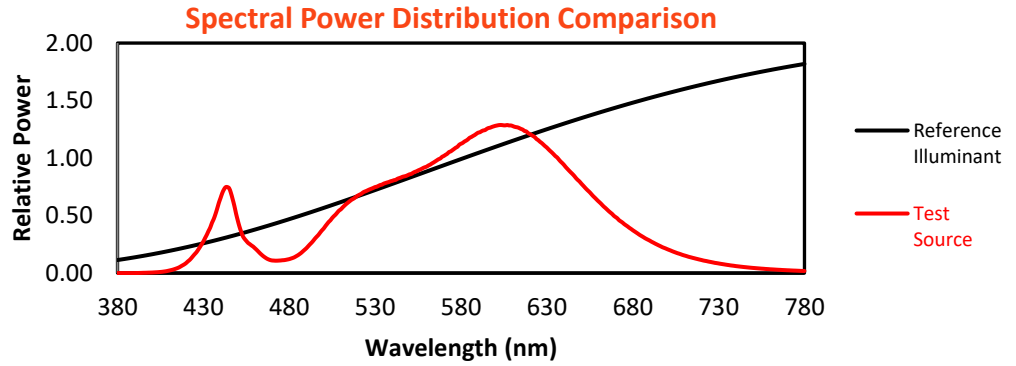
Melanopic Lumens: NR

M/P: 2.32

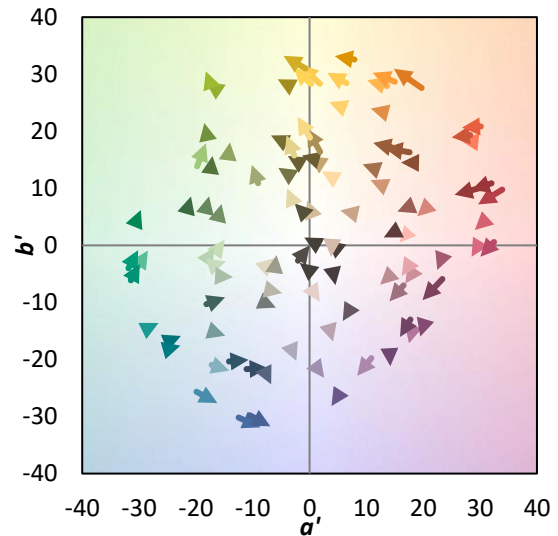
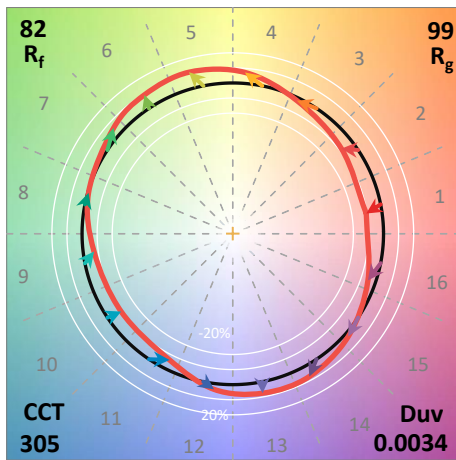
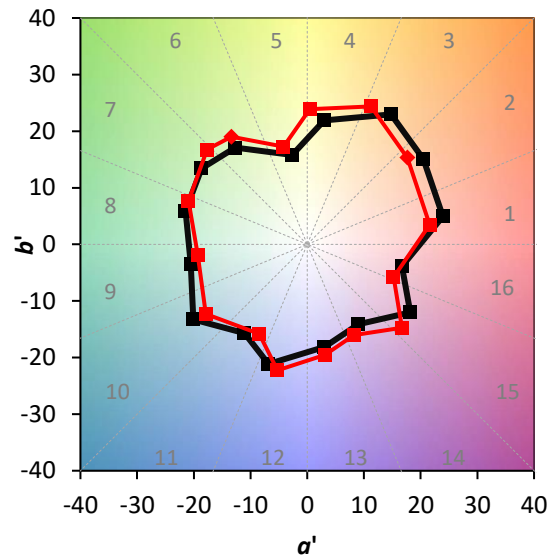
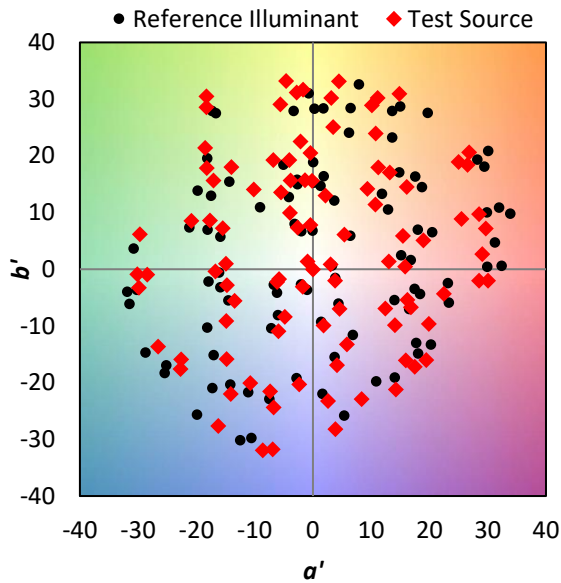
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	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**

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

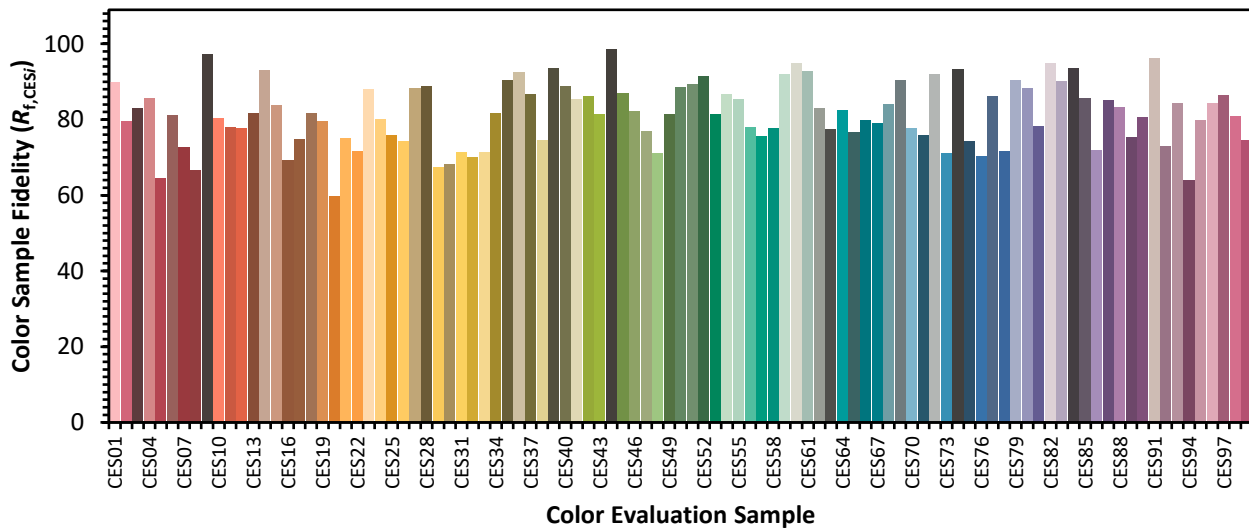


**Color Vector Graphics**

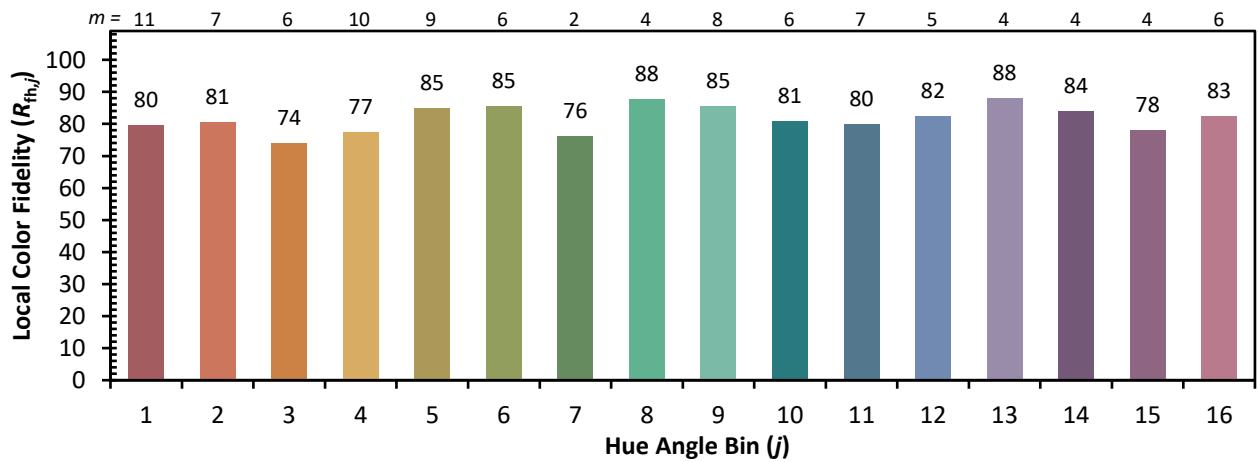
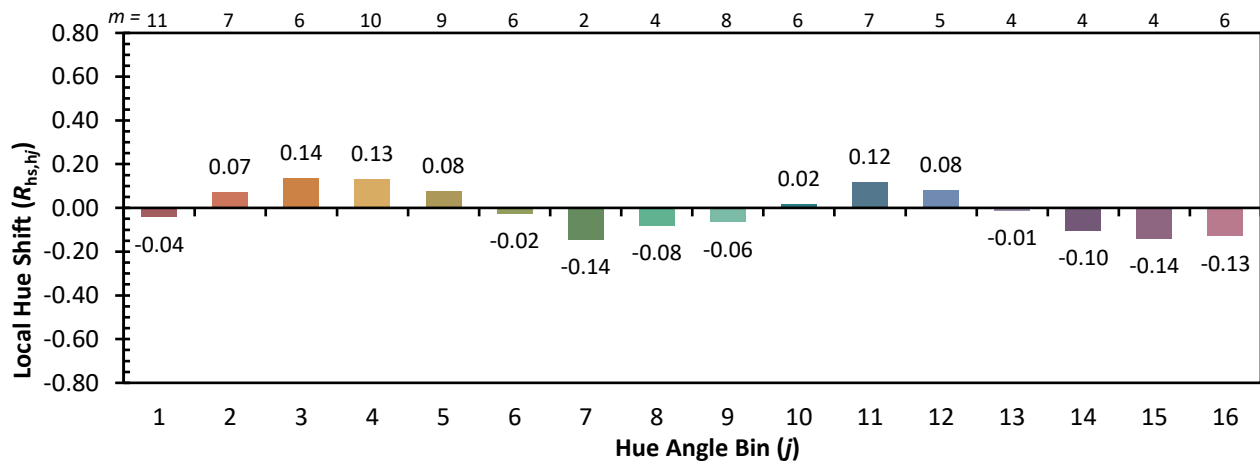
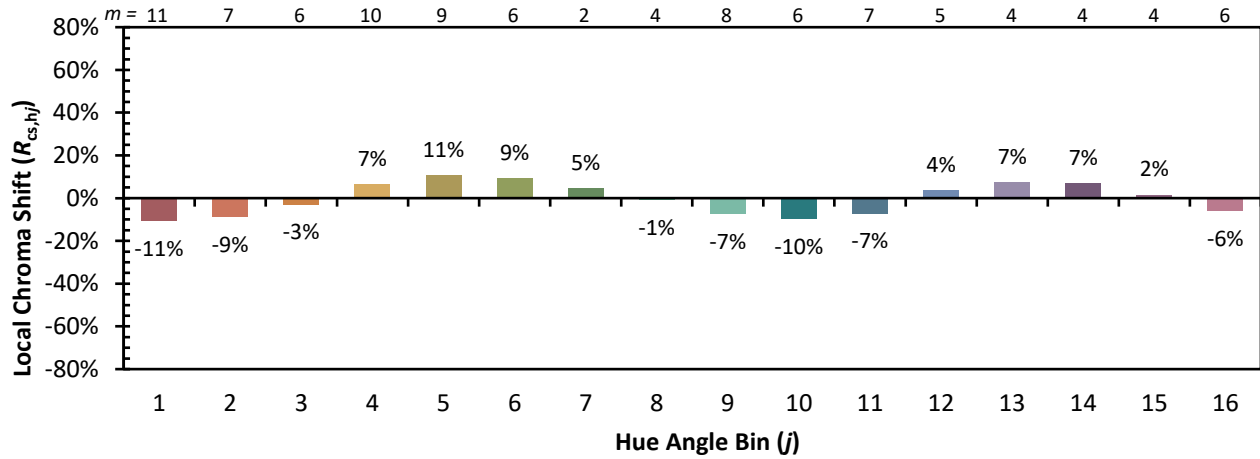


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

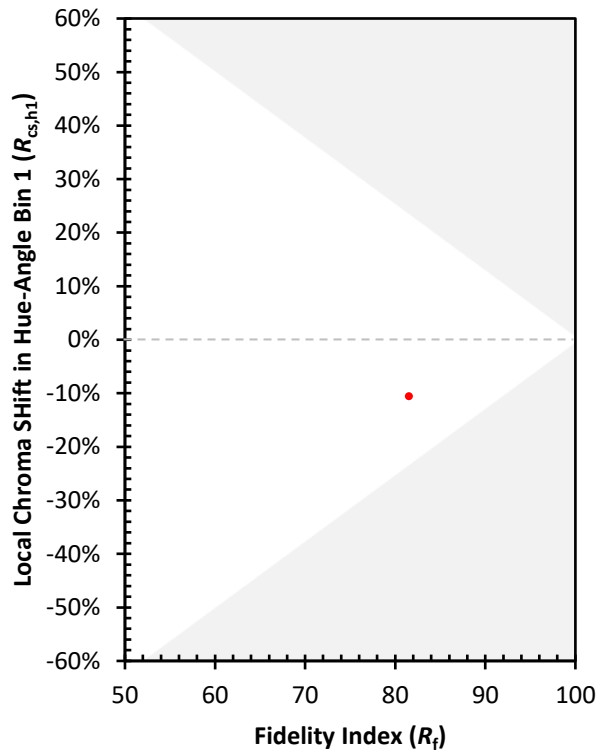
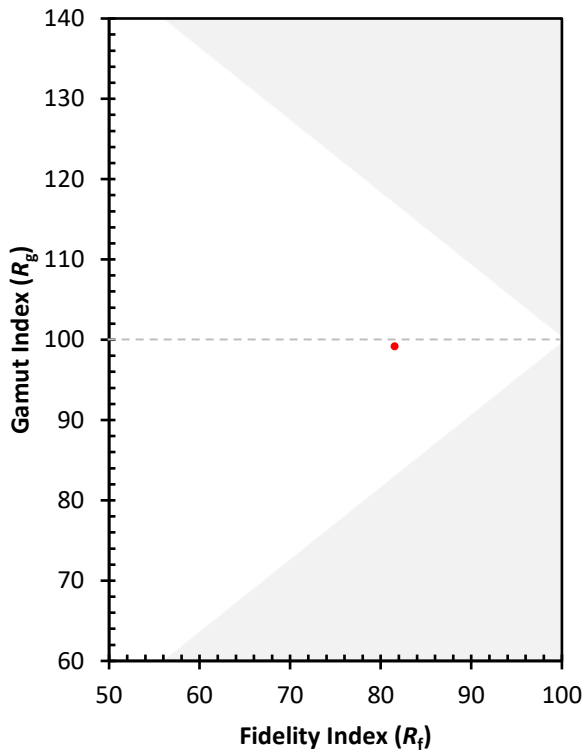
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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