

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: P320817

Luminaire Tested: **GLEON-SA3D-830-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320817  
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-SA3D-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16542 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

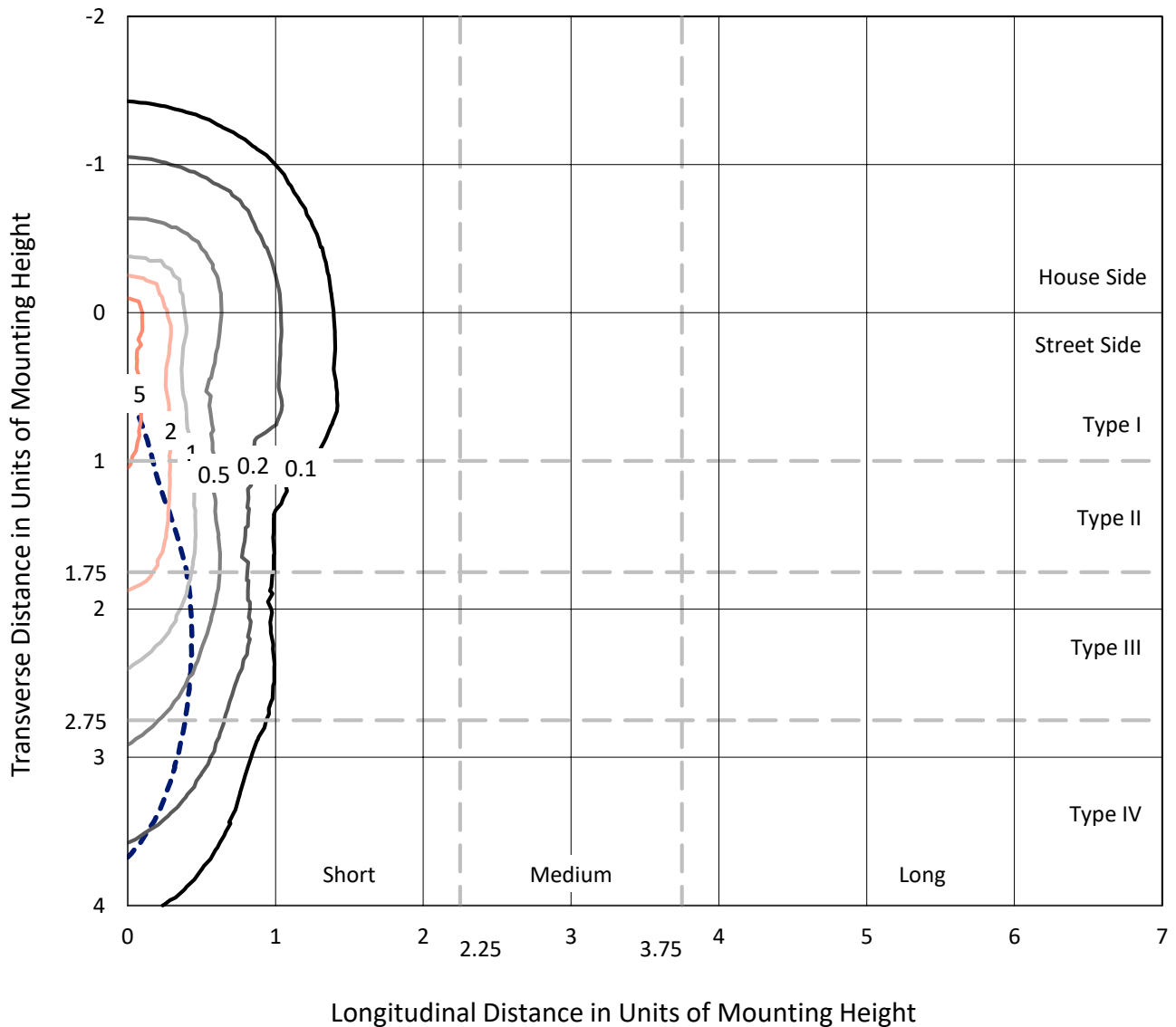
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

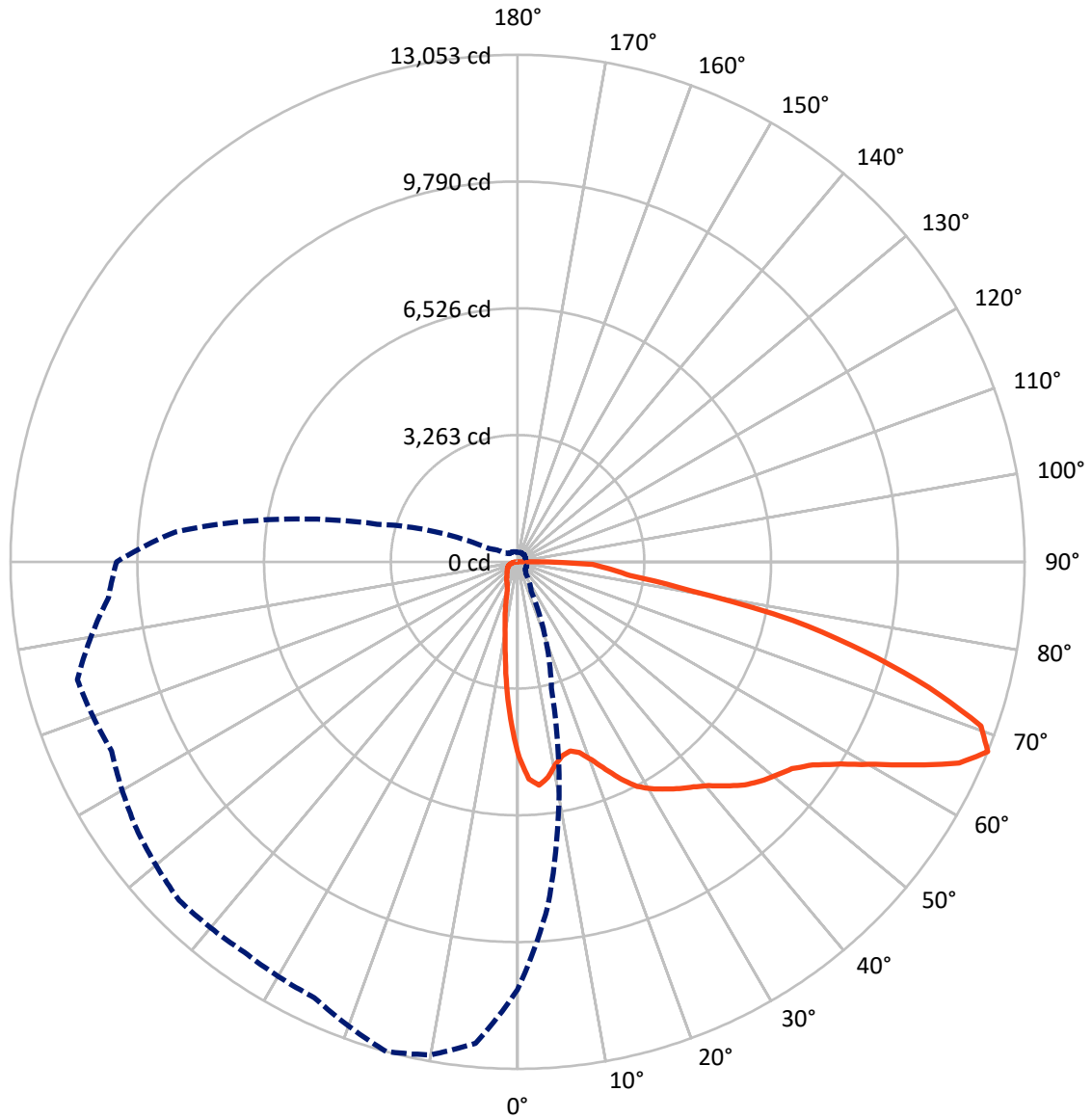
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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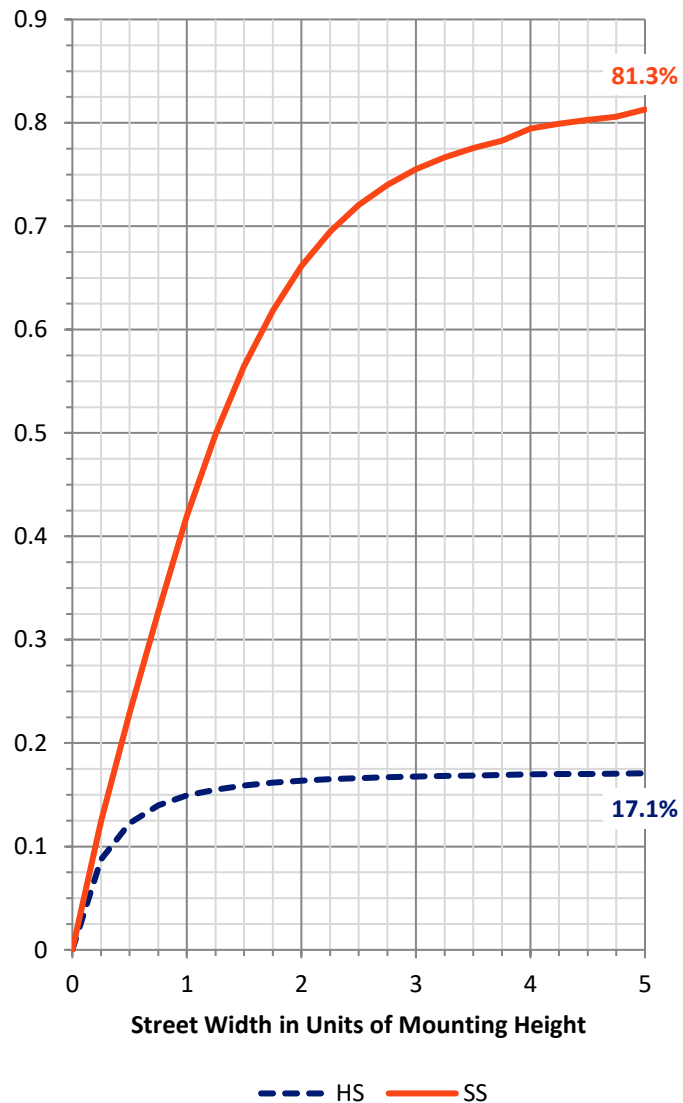
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2859.8	0.0	2859.8
	% Fixture	17.3	0.0	17.3
<b>Street Side</b>	Lumens	13682.2	0.0	13682.2
	% Fixture	82.7	0.0	82.7
<b>Total</b>	Lumens	16542.0	0.0	16542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.9	2.4
10°-20°	808.0	4.9
20°-30°	1149.1	6.9
30°-40°	1655.9	10.0
40°-50°	2333.7	14.1
50°-60°	3244.2	19.6
60°-70°	3923.2	23.7
70°-80°	2411.5	14.6
80°-90°	627.5	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°	16542.0	100.0
0°-180°	16542.0	100.0

**Coefficient of Utilization**

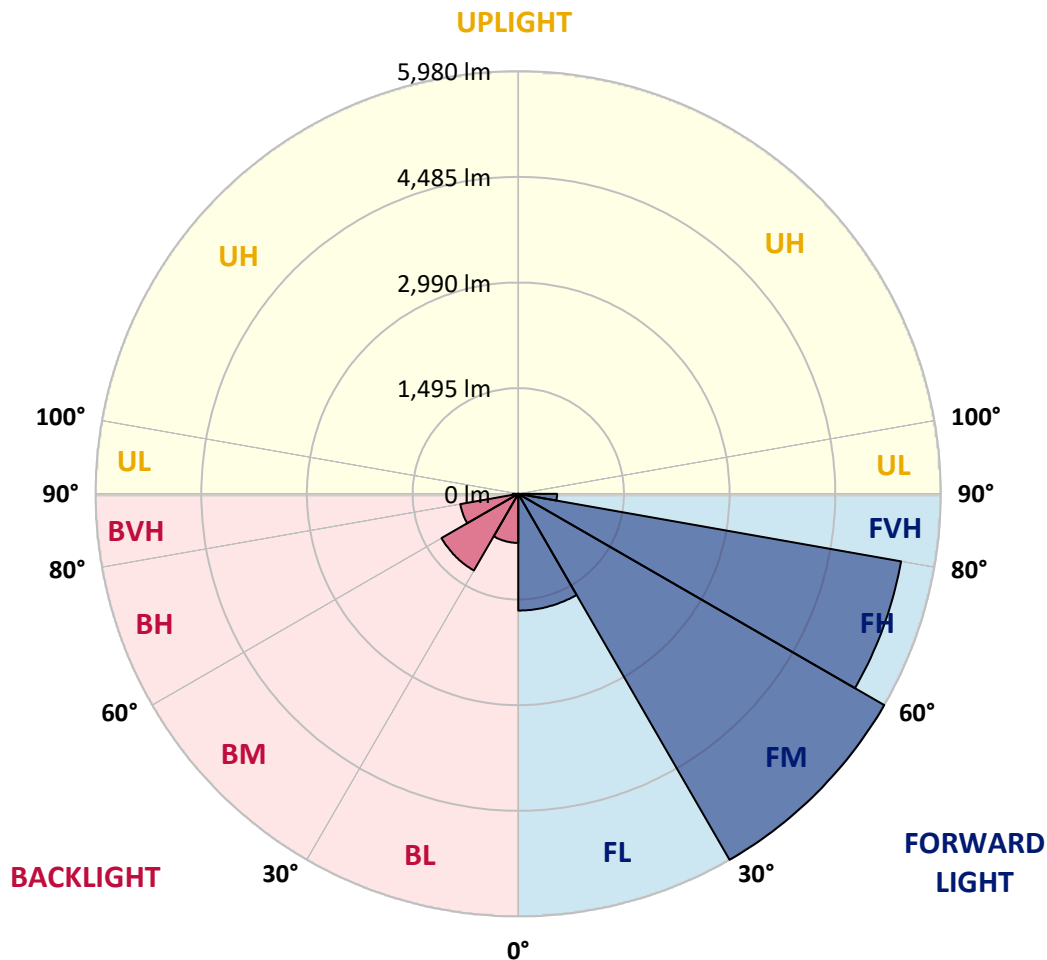


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.8	10.0			
FM (30°-60°)	5980.4	36.2			
FH (60°-80°)	5501.3	33.3			G3/7500
FVH (80°-90°)	548.8	3.3			G4/750
BL (0°-30°)	694.3	4.2	B2/1000		
BM (30°-60°)	1253.4	7.6	B2/2500		
BH (60°-80°)	833.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	78.7	0.5			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6
2.5°	5398.8	5351.1	5279.1	5207.0	5153.4	5099.2	5037.7	4976.1	4906.0	4835.3	4793.6
5°	5309.5	5177.2	5005.2	4833.3	4719.5	4605.8	4476.8	4347.8	4220.2	4092.6	4023.8
7.5°	4907.4	4709.0	4485.4	4261.9	4096.5	3930.5	3751.9	3572.7	3414.0	3254.6	3156.1
10°	4511.9	4273.8	4017.2	3759.9	3548.2	3336.6	3157.4	2977.5	2857.8	2738.1	2647.5
12.5°	4228.1	3964.2	3681.8	3398.8	3187.1	2975.5	2861.7	2748.0	2648.8	2549.6	2445.1
15°	4115.7	3817.4	3528.4	3238.7	3046.3	2853.8	2727.5	2600.5	2467.6	2334.0	2205.7
17.5°	4214.9	3865.7	3551.6	3237.4	2985.4	2733.4	2556.9	2379.6	2204.3	2029.1	1880.3
20°	4524.4	4078.7	3668.0	3256.6	2921.3	2586.0	2349.2	2111.8	1886.9	1662.0	1493.4
22.5°	4958.9	4369.0	3832.6	3296.3	2863.1	2429.2	2132.3	1834.6	1568.8	1302.9	1137.6
25°	5486.7	4753.9	4070.1	3385.6	2839.3	2292.3	1927.2	1562.2	1281.7	1000.7	882.9
27.5°	6042.9	5212.9	4365.0	3516.5	2843.2	2170.0	1754.6	1338.6	1086.0	833.3	752.6
30°	6506.6	5737.4	4709.0	3679.9	2858.4	2037.0	1591.9	1146.8	938.5	730.2	677.9
32.5°	6930.5	6103.1	4968.2	3832.6	2875.6	1918.0	1466.3	1013.9	843.9	673.3	630.3
35°	7368.3	6427.8	5149.4	3870.3	2845.9	1820.7	1380.3	939.8	783.1	625.7	589.3
37.5°	7850.5	6779.0	5324.0	3868.3	2795.6	1722.9	1313.5	903.4	743.4	582.7	556.2
40°	8388.1	7167.3	5513.2	3859.1	2750.0	1640.2	1263.9	886.9	721.6	555.6	533.1
42.5°	8913.9	7537.6	5689.1	3840.6	2712.9	1584.6	1214.9	845.2	701.7	557.5	525.8
45°	9308.8	7861.0	5841.9	3822.1	2685.2	1548.3	1176.6	804.9	683.2	561.5	521.2
47.5°	9608.4	8185.8	6011.2	3835.9	2682.5	1529.1	1149.5	769.8	648.1	525.8	509.3
50°	9989.3	8576.0	6257.9	3939.8	2718.9	1498.0	1117.7	736.8	614.4	492.1	514.5
52.5°	10463.5	9132.9	6640.1	4146.8	2794.9	1443.1	1067.5	691.8	573.4	454.4	489.4
55°	11159.9	9846.5	7128.9	4410.7	2886.9	1362.4	991.4	619.7	519.2	418.0	449.1
57.5°	11784.9	10567.4	7597.8	4627.6	2944.4	1260.6	895.5	530.4	458.3	386.2	404.1
60°	12063.4	10939.1	7817.4	4695.1	2910.0	1125.0	787.7	449.7	404.8	359.8	356.5
62.5°	11954.9	10702.9	7601.1	4499.3	2742.0	984.8	692.5	400.1	366.4	332.0	324.7
65°	11637.5	9960.9	6995.3	4029.7	2458.3	886.9	632.3	377.6	339.9	302.2	294.3
67.5°	11011.8	8904.7	6136.8	3369.0	2097.9	826.7	597.9	369.0	323.4	277.1	267.9
70°	9888.8	7633.5	5148.1	2662.0	1726.2	789.7	575.4	361.1	305.6	249.3	240.7
72.5°	8122.3	6120.3	4111.1	2101.2	1443.1	785.0	572.7	360.4	291.0	221.6	213.6
75°	5815.4	4648.8	3138.2	1627.0	1181.9	736.8	543.6	350.5	271.2	191.1	183.9
77.5°	3913.3	3217.6	2181.2	1144.2	877.0	609.8	457.0	304.2	232.1	160.1	152.8
80°	2513.2	2226.8	1461.6	696.4	568.8	441.1	326.7	212.3	169.3	125.7	119.7
82.5°	1843.9	1657.4	1015.9	374.3	316.1	257.3	199.7	142.2	115.7	89.3	86.6
85°	1171.9	1292.3	748.0	203.7	166.7	129.6	107.1	84.7	66.8	48.9	48.9
87.5°	227.5	314.8	207.0	98.5	72.1	45.6	39.0	31.7	17.9	3.3	4.0
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°	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6
2.5°	4751.3	4705.6	4660.0	4608.4	4556.2	4507.9	4459.0	4405.4	4415.3	4374.3	4333.3
5°	3955.0	3882.2	3808.8	3745.3	3681.8	3626.9	3571.4	3521.8	3564.8	3535.7	3506.6
7.5°	3056.8	2966.9	2876.3	2800.2	2724.2	2665.3	2605.8	2564.8	2607.1	2601.8	2596.5
10°	2556.9	2469.6	2381.6	2297.6	2213.6	2142.2	2070.1	2009.2	1998.7	1968.2	1937.2
12.5°	2339.9	2220.2	2099.8	2011.9	1923.9	1838.6	1753.3	1681.9	1649.5	1599.2	1548.3
15°	2077.4	1935.8	1794.3	1694.4	1593.9	1511.2	1427.9	1366.4	1345.9	1306.9	1267.8
17.5°	1731.5	1576.7	1421.9	1320.8	1218.9	1152.8	1086.0	1045.0	1045.0	1033.7	1022.5
20°	1324.7	1186.5	1048.3	970.9	893.5	858.5	822.7	805.5	810.8	811.5	811.5
22.5°	971.6	886.9	802.2	771.2	739.4	726.8	714.3	707.0	709.6	710.3	711.0
25°	765.2	732.8	699.7	683.9	667.3	659.4	651.4	648.8	654.8	655.4	655.4
27.5°	672.0	652.1	631.6	621.7	611.1	607.8	604.5	599.9	605.8	605.8	605.2
30°	625.0	603.8	582.7	570.1	557.5	558.9	559.5	558.2	562.2	564.8	566.8
32.5°	586.6	566.1	545.6	533.1	519.8	517.9	515.9	514.5	523.1	527.8	532.4
35°	552.2	529.8	507.3	495.4	483.5	478.8	474.2	470.9	478.8	484.8	490.7
37.5°	529.1	505.9	482.1	470.9	459.0	453.0	447.1	443.1	446.4	449.1	451.7
40°	510.6	486.8	462.3	449.1	435.8	429.9	423.9	420.6	422.6	423.3	423.9
42.5°	493.4	470.2	447.1	432.5	417.3	410.0	402.8	398.8	400.1	401.5	402.1
45°	480.8	457.7	433.9	416.7	398.8	390.9	382.9	378.3	379.0	379.0	379.0
47.5°	492.7	459.0	424.6	404.8	384.3	375.0	365.7	361.1	359.8	358.5	357.1
50°	536.4	478.8	420.6	395.5	369.7	359.8	349.2	343.9	340.6	339.3	338.0
52.5°	523.8	474.2	423.9	391.5	358.5	346.6	334.7	326.1	322.7	320.8	318.8
55°	479.5	448.4	416.7	377.6	338.6	328.0	316.8	310.8	304.9	303.6	302.2
57.5°	421.3	408.7	396.2	356.5	316.8	306.9	296.3	292.3	287.0	287.0	286.4
60°	352.5	371.0	389.5	343.9	297.6	286.4	275.1	271.8	269.8	269.2	268.5
62.5°	316.8	347.2	377.0	328.7	279.8	267.9	255.9	252.0	251.3	252.0	252.0
65°	286.4	295.6	304.9	282.4	259.9	248.0	235.4	231.5	232.8	234.8	236.8
67.5°	258.6	256.6	254.6	246.7	238.1	228.2	217.6	213.6	214.3	216.9	219.6
70°	232.1	229.5	226.2	220.2	214.3	205.7	197.1	194.4	193.8	197.1	199.7
72.5°	205.7	202.4	198.4	193.8	188.5	181.2	173.9	172.0	172.6	174.6	176.6
75°	176.6	173.9	170.6	166.7	162.0	155.4	148.8	147.5	148.8	150.8	152.8
77.5°	144.8	144.2	142.9	139.5	136.2	129.0	121.0	120.4	122.4	124.3	125.7
80°	113.1	113.8	114.4	111.8	109.1	101.2	92.6	91.9	93.9	95.9	97.9
82.5°	83.3	85.3	86.6	83.3	80.0	70.8	61.5	60.2	66.8	68.8	70.8
85°	48.3	50.9	53.6	50.9	48.3	39.0	29.8	29.1	35.1	38.4	41.7
87.5°	4.0	5.3	6.6	6.0	5.3	2.6	0.0	0.0	0.7	3.3	6.0
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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6
2.5°	4307.5	4281.7	4273.8	4265.8	4236.7	4207.0	4237.4	4267.2	4279.7	4292.3	4259.9
5°	3502.6	3498.0	3498.0	3497.3	3470.9	3443.8	3464.3	3484.1	3439.8	3395.5	3390.8
7.5°	2625.0	2653.4	2676.6	2699.0	2690.5	2681.9	2701.0	2720.2	2664.0	2607.1	2579.3
10°	1943.8	1949.7	1974.8	2000.0	2005.9	2011.2	2035.0	2058.2	2014.5	1970.9	1951.7
12.5°	1516.5	1484.8	1488.1	1490.7	1502.6	1513.9	1539.0	1563.5	1545.6	1527.1	1529.1
15°	1228.2	1187.8	1171.3	1154.1	1167.3	1180.5	1198.4	1215.6	1216.3	1216.3	1233.5
17.5°	1002.6	982.1	965.6	948.4	966.3	983.5	985.4	987.4	988.1	988.7	987.4
20°	821.4	831.3	826.1	820.8	827.4	833.3	838.6	843.2	837.3	830.7	814.1
22.5°	720.2	728.8	735.4	741.4	752.6	763.2	757.9	752.0	740.1	727.5	714.9
25°	661.4	667.3	673.9	680.5	689.8	698.4	689.1	679.9	671.3	662.7	654.1
27.5°	611.8	617.7	623.7	629.0	637.6	645.5	636.9	628.3	621.0	613.8	607.1
30°	571.4	575.4	580.0	584.7	592.6	599.9	592.6	584.7	579.4	573.4	568.8
32.5°	537.0	541.0	543.0	545.0	552.2	559.5	554.2	548.9	544.3	539.7	536.4
35°	499.3	507.3	508.6	509.9	517.2	524.5	521.2	517.2	511.9	506.6	500.7
37.5°	461.0	470.2	475.5	480.2	487.4	494.7	491.4	488.1	480.8	473.5	463.0
40°	428.6	432.5	442.5	451.7	463.6	474.9	468.2	461.0	449.7	438.5	433.2
42.5°	401.5	400.8	410.0	419.3	437.2	454.4	442.5	430.6	420.0	409.4	408.1
45°	377.6	375.7	380.3	384.9	404.1	422.6	410.7	398.1	392.2	386.2	386.2
47.5°	356.5	355.2	358.5	361.1	373.0	384.3	378.3	372.4	369.0	365.7	366.4
50°	337.3	336.0	339.3	341.9	346.6	350.5	351.8	352.5	350.5	348.5	349.9
52.5°	319.4	319.4	320.8	321.4	327.4	333.3	333.3	332.7	332.7	332.7	334.0
55°	304.2	305.6	305.6	305.6	314.8	323.4	320.8	318.1	318.8	318.8	320.1
57.5°	289.0	291.0	292.3	293.6	302.9	312.2	309.5	306.9	306.9	306.9	307.5
60°	271.8	274.5	277.1	279.8	289.0	298.3	295.6	292.3	293.0	293.6	294.3
62.5°	255.3	257.9	260.6	263.2	272.5	281.7	279.1	275.8	277.8	279.1	279.1
65°	239.4	241.4	244.0	246.7	255.3	263.9	261.2	258.6	261.2	263.2	264.5
67.5°	221.6	222.9	225.5	228.2	236.8	245.4	242.7	239.4	242.7	245.4	248.0
70°	201.1	202.4	205.7	208.3	216.9	225.5	222.2	218.9	222.2	225.5	228.2
72.5°	178.6	179.9	183.2	185.8	195.8	205.7	201.7	197.7	201.7	205.7	207.0
75°	154.1	155.4	159.4	162.7	172.6	182.5	179.2	175.3	178.6	181.9	182.5
77.5°	127.6	129.6	134.9	140.2	148.1	156.1	154.1	152.1	154.1	156.1	156.1
80°	99.9	101.9	108.5	114.4	119.0	123.7	124.3	125.0	125.7	126.3	125.7
82.5°	74.1	76.7	82.7	88.6	88.6	88.6	93.9	98.5	98.5	97.9	97.2
85°	45.6	48.9	54.2	59.5	56.2	52.9	61.5	69.4	69.4	68.8	67.5
87.5°	9.3	12.6	17.9	22.5	19.2	15.9	24.5	33.1	33.7	33.7	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6
2.5°	4226.8	4278.4	4329.3	4342.6	4362.4	4371.0	4378.9	4443.7	4507.9	4583.3	4658.7
5°	3385.6	3423.9	3462.3	3468.2	3488.7	3499.3	3509.9	3588.6	3666.6	3771.8	3876.9
7.5°	2551.6	2560.8	2570.1	2568.8	2586.0	2609.1	2631.6	2715.6	2798.9	2912.0	3024.4
10°	1932.5	1953.7	1974.2	1993.4	2031.1	2074.7	2117.7	2203.7	2289.7	2401.4	2512.5
12.5°	1531.1	1555.5	1579.4	1600.5	1644.2	1702.4	1759.9	1863.1	1966.3	2099.8	2232.8
15°	1250.0	1248.0	1246.0	1260.6	1298.9	1362.4	1425.3	1534.4	1643.5	1790.3	1936.5
17.5°	986.1	976.2	966.3	977.5	1013.2	1065.5	1117.1	1209.6	1301.6	1443.8	1586.0
20°	797.6	791.0	784.4	795.0	817.5	839.3	861.1	927.9	994.0	1109.8	1224.9
22.5°	701.7	701.1	699.7	705.7	716.3	727.5	738.1	770.5	802.2	877.0	951.0
25°	645.5	644.8	644.2	646.8	655.4	664.0	672.6	693.8	714.9	750.7	786.4
27.5°	600.5	599.2	597.9	598.5	600.5	613.8	626.3	636.2	645.5	670.0	693.8
30°	564.1	563.5	562.8	562.8	560.8	565.5	570.1	585.3	599.9	625.0	650.1
32.5°	533.1	529.8	526.5	519.2	514.5	521.2	527.8	543.6	559.5	582.7	605.8
35°	494.0	485.4	476.2	472.2	472.9	479.5	486.1	502.0	517.2	542.3	566.8
37.5°	451.7	449.1	445.8	445.1	447.1	453.7	460.3	474.2	487.4	512.6	537.0
40°	427.9	426.6	425.3	423.9	425.3	431.9	438.5	451.7	464.3	488.8	512.6
42.5°	406.7	406.1	405.4	405.4	406.1	413.4	420.6	433.9	446.4	468.2	490.1
45°	386.2	386.9	386.9	388.2	390.2	397.5	404.1	418.6	433.2	454.4	475.5
47.5°	367.1	369.0	370.4	373.7	375.7	383.6	390.9	406.7	422.6	449.1	474.9
50°	350.5	352.5	353.8	356.5	361.8	371.0	380.3	399.5	418.0	462.3	505.9
52.5°	335.3	337.3	339.3	341.9	348.5	359.1	369.7	393.5	416.7	468.2	519.8
55°	321.4	323.4	324.7	328.7	335.3	344.6	353.2	382.3	411.4	449.1	486.8
57.5°	308.2	310.2	311.5	314.2	317.5	327.4	336.6	367.7	398.8	425.3	451.1
60°	294.3	295.6	296.3	296.3	298.9	310.2	321.4	361.1	400.1	395.5	390.2
62.5°	279.1	280.4	281.1	279.1	282.4	294.3	306.2	357.8	409.4	377.6	345.9
65°	265.2	264.5	263.9	261.9	265.9	277.8	289.0	314.8	340.6	328.0	315.5
67.5°	250.0	248.0	246.0	243.4	247.4	257.9	267.9	276.5	285.1	286.4	287.7
70°	230.8	228.2	225.5	224.9	226.8	235.4	244.0	250.0	255.3	257.9	259.9
72.5°	208.3	206.3	204.4	203.0	203.7	211.0	217.6	222.9	228.2	230.2	231.5
75°	183.2	183.2	182.5	178.6	178.6	184.5	189.8	194.4	199.1	201.7	204.4
77.5°	156.1	156.7	156.7	151.5	150.8	156.7	162.0	166.0	169.3	172.0	173.9
80°	125.0	123.7	122.4	119.0	117.7	125.0	131.6	134.9	137.6	138.2	138.2
82.5°	95.9	93.3	89.9	82.7	83.3	91.3	98.5	101.2	103.8	103.8	103.8
85°	65.5	60.2	54.2	48.3	48.9	57.5	65.5	68.1	70.8	72.1	72.8
87.5°	31.1	25.8	19.8	15.2	15.2	22.5	29.1	30.4	31.7	34.4	37.0
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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6
2.5°	4716.2	4773.1	4832.0	4890.8	4958.3	5025.7	5104.4	5182.5	5249.3	5316.1	5371.6
5°	3967.6	4058.2	4164.6	4271.1	4406.7	4542.3	4708.3	4873.6	5021.1	5168.6	5339.9
7.5°	3142.8	3260.6	3399.4	3538.3	3713.6	3888.9	4103.8	4318.7	4527.1	4734.7	4998.0
10°	2636.2	2759.9	2896.8	3033.0	3211.6	3389.5	3617.0	3843.9	4078.0	4311.5	4609.1
12.5°	2370.3	2507.3	2627.6	2748.0	2892.8	3037.0	3257.2	3477.5	3752.6	4027.1	4313.5
15°	2086.6	2236.1	2380.3	2524.4	2682.5	2839.9	3054.2	3268.5	3569.4	3870.3	4199.7
17.5°	1743.4	1900.8	2076.7	2252.0	2458.3	2664.0	2938.5	3212.9	3569.4	3925.2	4313.5
20°	1385.6	1546.3	1756.6	1966.9	2223.5	2479.5	2835.3	3191.1	3671.3	4150.8	4646.1
22.5°	1093.2	1234.8	1464.3	1693.1	1989.4	2285.7	2742.0	3197.7	3825.4	4452.3	5121.0
25°	886.2	986.1	1211.6	1436.5	1778.4	2120.4	2685.2	3249.3	4049.6	4849.2	5678.5
27.5°	759.3	824.7	1035.0	1244.7	1618.4	1991.4	2662.0	3332.0	4334.0	5335.9	6285.0
30°	695.8	741.4	919.3	1096.6	1476.2	1855.8	2634.2	3412.7	4607.8	5802.2	6759.2
32.5°	642.9	679.2	831.3	982.8	1353.2	1723.5	2580.7	3437.1	4798.9	6160.7	7160.6
35°	597.9	628.3	760.6	892.8	1256.6	1620.4	2490.7	3361.1	4918.6	6476.1	7578.6
37.5°	561.5	585.3	707.7	830.0	1173.3	1516.5	2388.2	3259.9	5025.1	6790.3	8048.9
40°	533.1	553.6	668.0	782.4	1093.9	1405.4	2300.2	3194.4	5171.9	7149.4	8545.6
42.5°	517.2	543.6	633.6	722.9	1018.5	1314.1	2229.5	3144.8	5308.2	7470.8	8980.1
45°	513.2	550.9	615.7	680.5	962.3	1244.0	2166.6	3088.6	5396.1	7703.6	9307.5
47.5°	506.6	537.7	601.8	666.0	934.5	1202.4	2132.9	3062.8	5484.1	7904.7	9579.3
50°	510.6	514.5	590.6	666.0	930.5	1195.1	2171.3	3147.5	5674.5	8201.0	9890.1
52.5°	503.3	486.1	569.4	652.8	929.9	1207.0	2281.7	3356.4	6028.4	8699.7	10226.8
55°	464.9	442.5	529.8	617.1	916.0	1214.3	2413.3	3611.7	6503.2	9394.1	10831.9
57.5°	431.2	410.7	484.8	558.2	873.7	1189.1	2548.9	3908.0	7005.2	10101.8	11513.8
60°	386.2	381.6	434.5	487.4	808.2	1128.3	2660.7	4192.4	7342.5	10492.0	11776.3
62.5°	349.2	351.8	390.9	429.9	726.2	1021.8	2697.7	4373.0	7333.3	10293.6	11511.8
65°	320.8	325.4	363.8	402.1	656.1	910.0	2576.0	4241.4	6962.2	9682.4	10988.7
67.5°	293.0	298.3	343.9	388.9	593.9	798.3	2271.8	3744.7	6294.9	8844.5	10323.3
70°	266.5	273.1	322.7	372.4	548.9	724.9	1879.6	3034.4	5459.6	7884.2	9552.8
72.5°	238.1	244.7	297.6	350.5	520.5	689.8	1532.4	2374.3	4430.5	6486.0	8171.2
75°	209.0	213.6	271.2	328.0	481.5	634.9	1202.4	1769.2	3390.8	5012.5	6171.9
77.5°	179.9	185.8	234.1	281.7	408.7	535.0	906.1	1277.1	2488.1	3698.4	4292.3
80°	143.5	148.8	183.2	216.9	315.5	413.4	623.0	832.7	1712.3	2591.9	2926.6
82.5°	109.8	115.7	138.9	161.4	224.9	288.4	377.6	466.9	1137.6	1807.5	1835.3
85°	75.4	77.4	93.9	109.8	138.9	168.0	216.3	264.5	752.6	1240.7	1033.7
87.5°	37.7	37.7	48.9	60.2	74.7	89.3	114.4	138.9	240.7	342.6	197.1
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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**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: P320817

CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6
2.5°	5442.4	5490.7	5539.6	5576.7	5614.4	5668.6	5722.8	5732.8	5743.3	5722.2	5701.0
5°	5512.5	5658.7	5805.5	5941.1	6076.7	6158.0	6239.4	6255.9	6272.4	6221.5	6169.9
7.5°	5252.6	5507.2	5761.9	5995.3	6228.8	6370.3	6512.5	6544.3	6576.7	6493.3	6410.0
10°	4905.4	5218.2	5531.0	5838.6	6146.1	6351.8	6557.5	6598.5	6639.5	6535.7	6431.8
12.5°	4636.9	4970.9	5304.8	5628.9	5953.6	6166.6	6379.6	6430.5	6481.4	6406.0	6330.0
15°	4554.2	4868.3	5182.5	5464.9	5748.0	5921.9	6096.5	6117.0	6138.2	6126.3	6114.4
17.5°	4704.3	4988.0	5272.4	5425.9	5580.0	5649.4	5719.5	5742.0	5765.2	5794.9	5825.3
20°	5068.1	5267.8	5468.2	5461.6	5454.3	5420.6	5386.2	5380.2	5374.3	5459.6	5545.6
22.5°	5611.1	5690.4	5770.4	5584.6	5398.8	5285.7	5171.9	5149.4	5126.3	5216.9	5308.2
25°	6200.3	6185.8	6170.6	5816.7	5462.2	5246.6	5031.0	5005.9	4980.8	5058.2	5136.2
27.5°	6783.7	6688.4	6593.2	6112.4	5631.6	5318.7	5005.9	4980.8	4955.6	5024.4	5093.2
30°	7211.6	7058.8	6906.0	6361.7	5817.4	5445.7	5074.0	5033.0	4991.4	5076.0	5160.7
32.5°	7545.6	7340.5	7135.5	6564.1	5992.7	5590.6	5188.4	5124.3	5060.1	5173.2	5286.3
35°	7878.9	7590.5	7301.5	6744.6	6187.1	5761.9	5335.9	5257.2	5178.5	5333.9	5489.4
37.5°	8298.2	7884.2	7469.5	6947.7	6425.9	6018.5	5610.4	5529.7	5449.0	5646.8	5845.2
40°	8753.2	8201.0	7648.7	7169.9	6691.1	6373.6	6055.5	5978.8	5901.4	6142.1	6382.9
42.5°	9131.5	8496.0	7860.4	7437.8	7014.5	6790.9	6566.7	6566.1	6564.8	6808.8	7052.8
45°	9439.1	8742.0	8044.2	7699.0	7353.1	7236.7	7120.3	7213.6	7306.8	7527.0	7747.9
47.5°	9668.6	8948.3	8227.4	7997.9	7768.4	7785.6	7802.8	7992.6	8182.5	8324.0	8466.2
50°	9818.0	9135.5	8452.3	8381.5	8310.8	8464.9	8619.6	8837.2	9055.5	9152.0	9248.6
52.5°	10035.6	9389.5	8742.6	8822.0	8901.4	9216.2	9531.0	9751.2	9971.5	10007.2	10043.6
55°	10538.9	9856.4	9173.2	9325.3	9478.1	9939.7	10402.0	10574.0	10745.9	10759.2	10772.4
57.5°	11253.9	10510.5	9767.1	9931.1	10095.1	10628.2	11161.9	11347.1	11533.0	11507.2	11480.7
60°	11788.9	11131.5	10473.4	10638.8	10804.1	11324.0	11843.8	12056.8	12270.4	12213.5	12156.6
62.5°	11822.0	11470.8	11118.9	11268.4	11418.5	11927.8	12437.1	12656.0	12874.9	12775.7	12676.5
65°	11296.2	11453.6	11611.0	11660.6	11710.2	12185.1	12660.6	12827.9	12995.9	12945.6	12895.4
67.5°	10572.0	11152.0	11732.7	11632.8	11533.0	11755.8	11978.7	12151.3	12324.0	12295.5	12266.4
70°	9849.1	10623.6	11398.0	10907.3	10415.9	10324.0	10232.0	10417.9	10604.4	10489.3	10373.6
72.5°	8618.3	9443.7	10269.7	9365.7	8461.6	8147.4	7833.3	8069.4	8305.5	8122.3	7938.4
75°	6765.1	7677.2	8589.9	7511.2	6432.5	6013.2	5593.9	5796.9	5999.9	5874.3	5748.0
77.5°	5036.3	5935.1	6833.9	5737.4	4640.2	4328.7	4016.5	4076.7	4137.5	4116.4	4094.5
80°	3416.0	4042.3	4669.3	3939.1	3209.0	3232.8	3257.2	3228.8	3199.7	3242.0	3284.4
82.5°	2179.9	2663.3	3147.5	2759.9	2372.3	2594.6	2816.8	2707.6	2597.9	2638.2	2679.2
85°	1244.0	1716.9	2190.5	2041.6	1892.2	2021.8	2152.1	1982.8	1813.5	1887.5	1962.3
87.5°	328.0	949.7	1572.1	1427.2	1282.4	1114.4	946.4	722.2	498.0	727.5	957.0
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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6	5039.6
2.5°	5689.8	5678.5	5638.2	5597.2	5536.3	5486.1	5398.8
5°	6098.5	6027.1	5904.0	5780.4	5642.8	5484.7	5309.5
7.5°	6243.3	6076.0	5839.9	5603.1	5390.2	5140.2	4907.4
10°	6181.8	5931.2	5624.3	5316.7	5058.2	4770.5	4511.9
12.5°	6064.1	5797.6	5459.6	5121.0	4826.7	4517.8	4228.1
15°	5902.1	5689.1	5372.3	5055.5	4759.2	4459.0	4115.7
17.5°	5724.8	5623.6	5394.8	5165.3	4908.7	4617.7	4214.9
20°	5582.0	5619.0	5527.7	5436.5	5230.8	4976.8	4524.4
22.5°	5485.4	5663.3	5733.4	5804.2	5680.5	5482.1	4958.9
25°	5431.2	5726.1	5960.9	6196.4	6141.5	5988.7	5486.7
27.5°	5455.0	5816.7	6181.2	6546.2	6597.2	6554.8	6042.9
30°	5526.4	5892.8	6336.6	6781.0	6984.1	7040.9	6506.6
32.5°	5645.4	6004.6	6488.0	6972.2	7279.0	7460.2	6930.5
35°	5825.3	6161.3	6665.3	7169.2	7566.1	7896.8	7368.3
37.5°	6134.2	6423.2	6888.2	7353.8	7868.3	8365.0	7850.5
40°	6586.6	6790.9	7183.8	7577.3	8224.8	8895.4	8388.1
42.5°	7157.3	7262.5	7574.0	7885.5	8597.1	9376.9	8913.9
45°	7775.7	7803.5	7999.3	8195.7	8892.1	9704.9	9308.8
47.5°	8371.0	8275.7	8353.8	8431.8	9118.3	9939.1	9608.4
50°	8983.4	8718.2	8677.2	8636.2	9344.5	10214.9	9989.3
52.5°	9606.4	9169.2	9007.2	8844.5	9614.3	10580.6	10463.5
55°	10216.2	9660.0	9441.7	9223.5	10027.0	11027.0	11159.9
57.5°	10850.4	10220.1	10017.8	9815.4	10633.5	11592.5	11784.9
60°	11533.0	10908.6	10746.6	10583.9	11387.5	12203.6	12063.4
62.5°	12180.4	11684.4	11599.1	11513.1	12150.0	12673.2	11954.9
65°	12613.0	12329.9	12409.3	12489.3	12726.7	12790.2	11637.5
67.5°	12324.0	12381.5	12716.8	13052.8	12889.4	12442.3	11011.8
70°	10718.2	11063.4	11857.7	12652.7	12290.2	11510.5	9888.8
72.5°	8326.0	8714.2	9893.4	11073.3	10739.3	9784.3	8122.3
75°	6185.8	6624.3	7925.9	9227.4	8763.8	7318.7	5815.4
77.5°	4388.2	4681.8	5966.9	7252.6	6496.6	4871.6	3913.3
80°	3194.4	3104.5	3820.7	4537.0	4411.3	3222.2	2513.2
82.5°	2459.6	2240.1	2577.4	2914.7	2896.1	2236.1	1843.9
85°	1874.3	1786.4	2084.6	2382.9	2127.6	1514.5	1171.9
87.5°	1092.6	1228.8	1580.0	1931.9	1449.7	459.7	227.5
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: P320817  
 CATALOG NUMBER: GLEON-SA3D-830-U-SLR

**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.

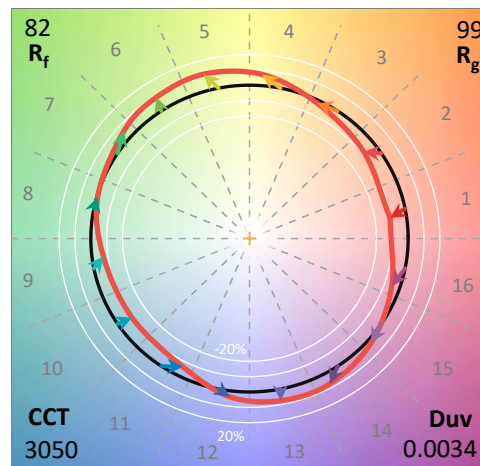
**Test Information**

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**

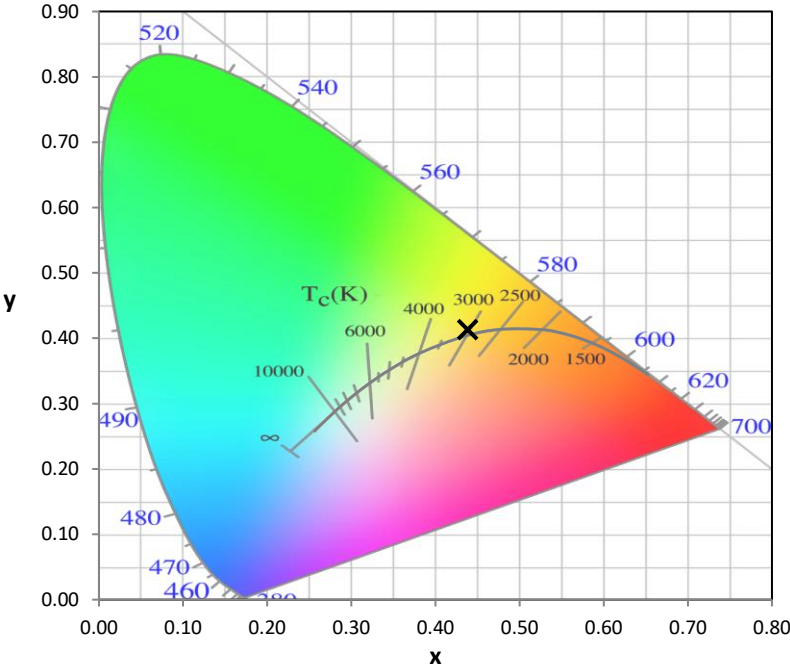
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

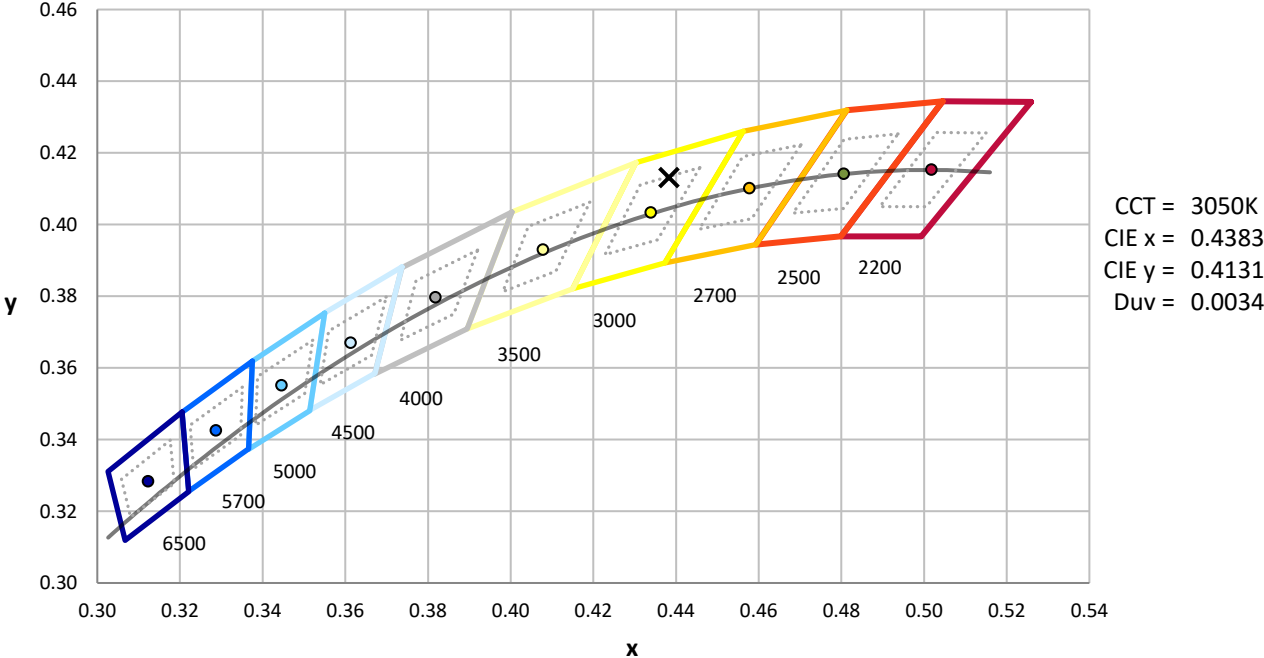
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

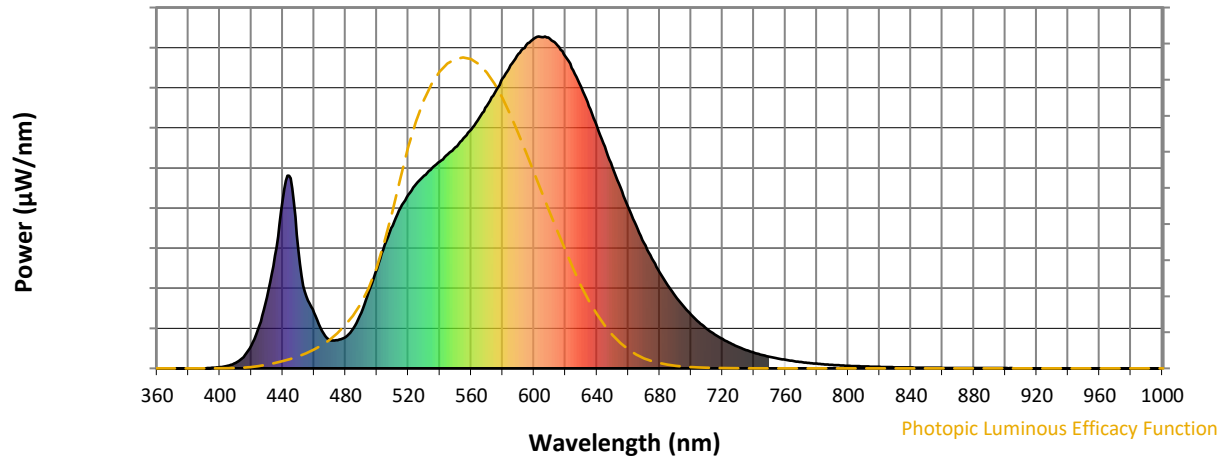


Point lies inside the ANSI 3000K 4-step quadrangle



REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**

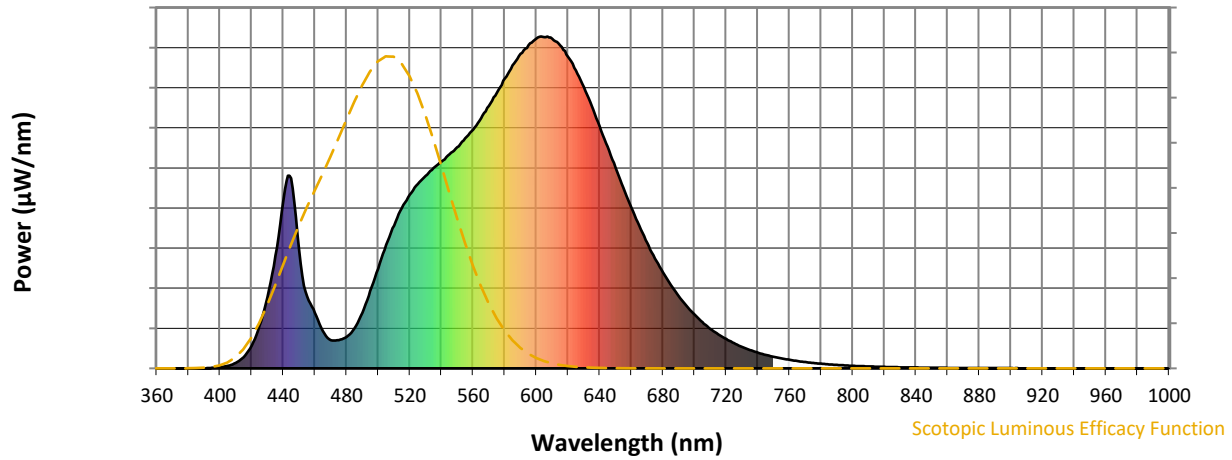


**Photopic Lumens: NR**

$\lambda$ (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**



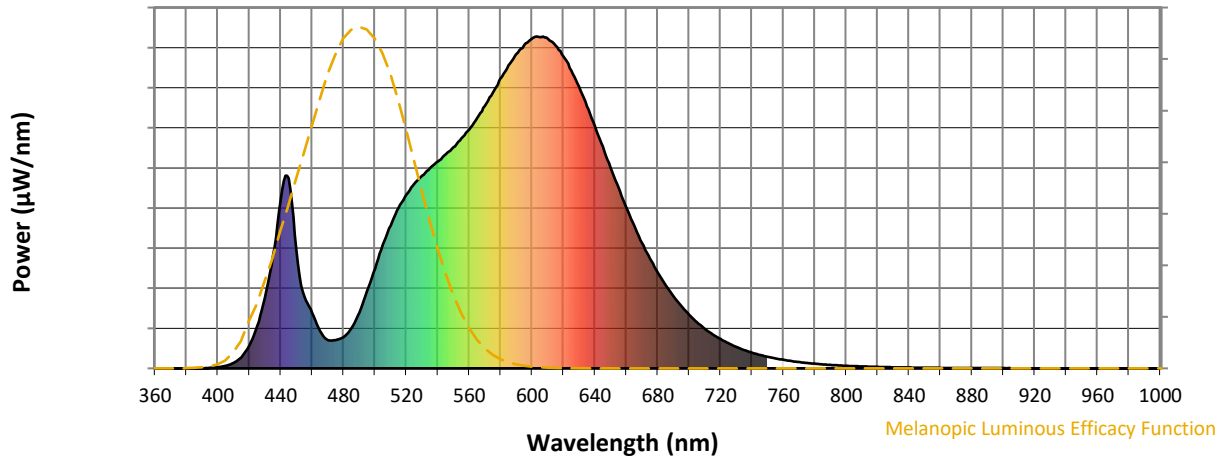
**Scotopic Lumens: NR**

**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**



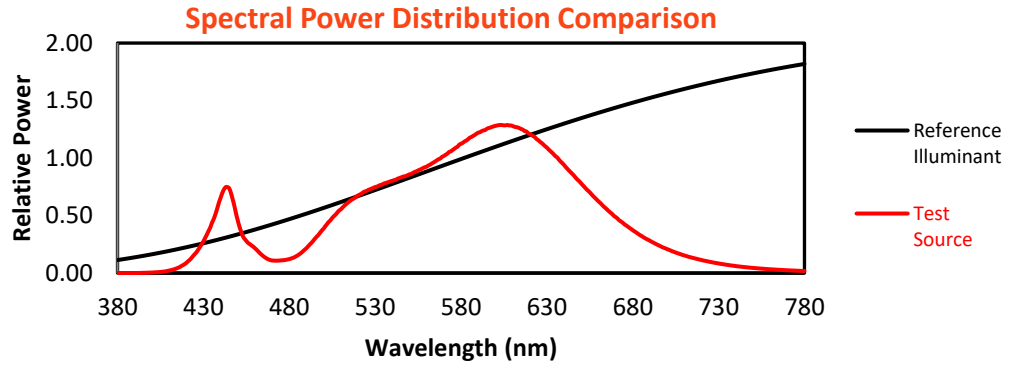
**Melanopic Lumens: NR**

**M/P: 2.32**

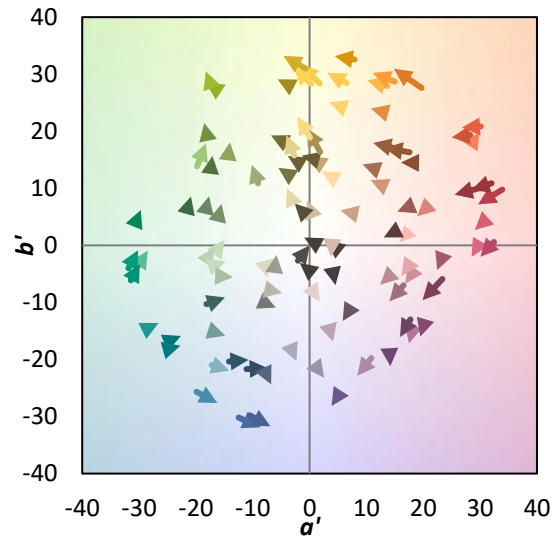
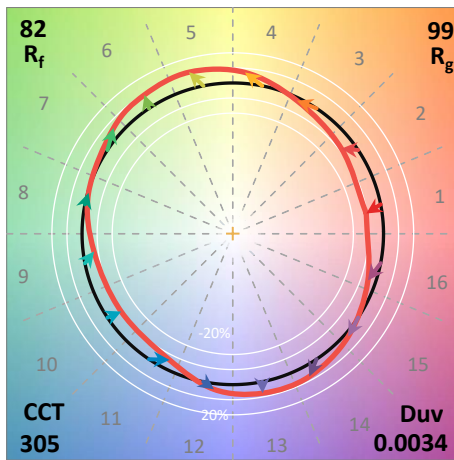
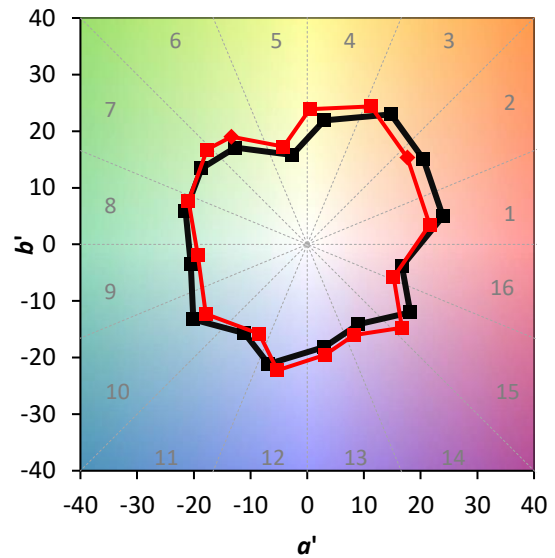
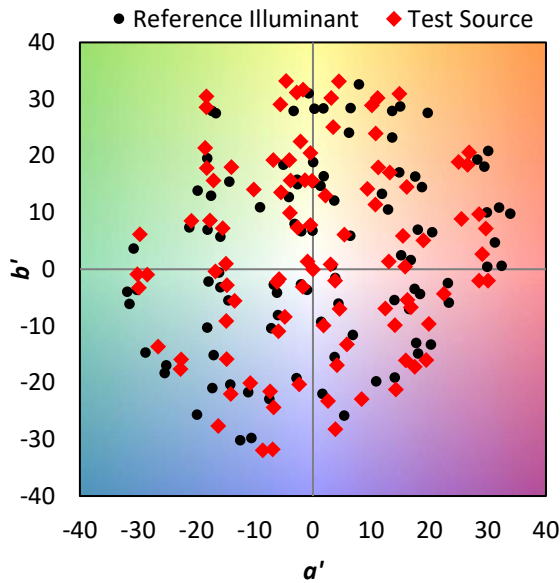
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625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

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

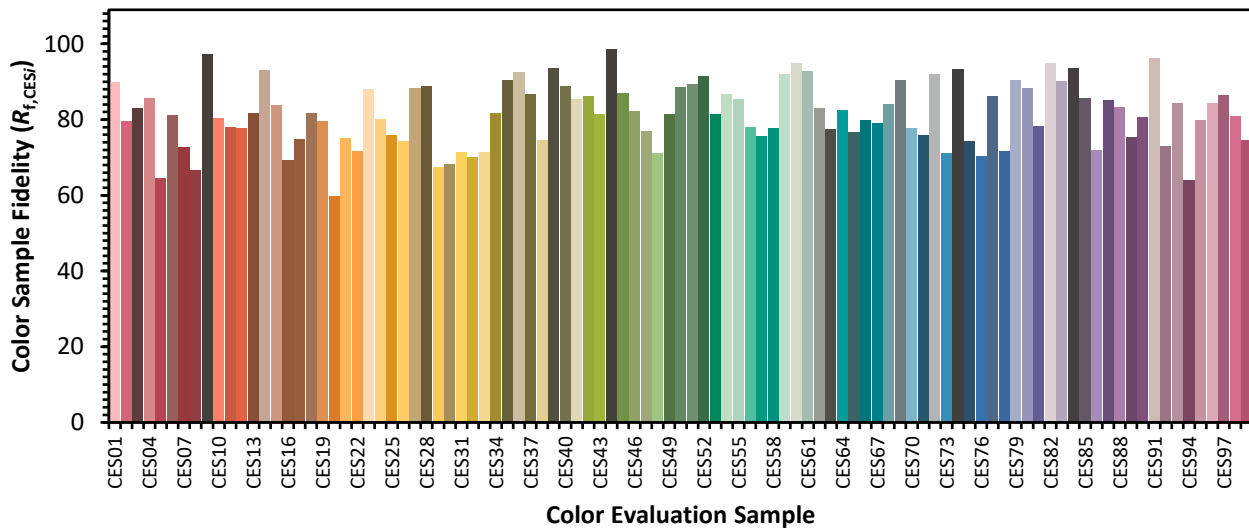


**Color Vector Graphics**

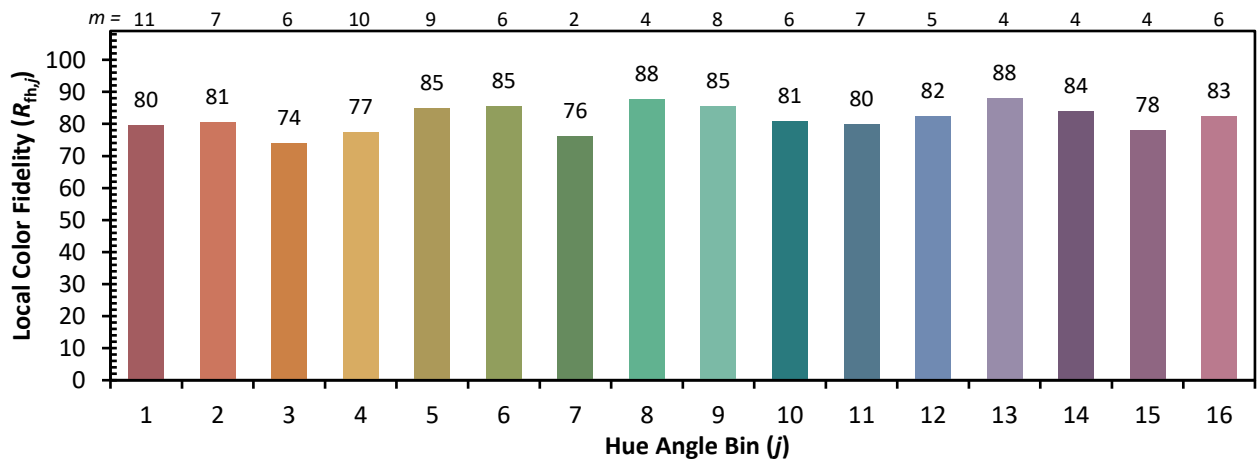
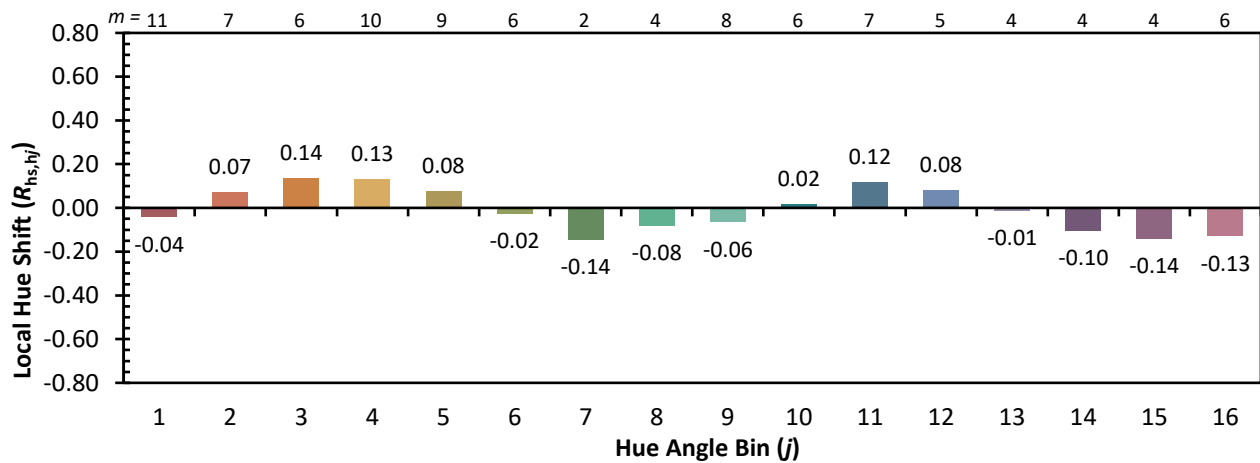
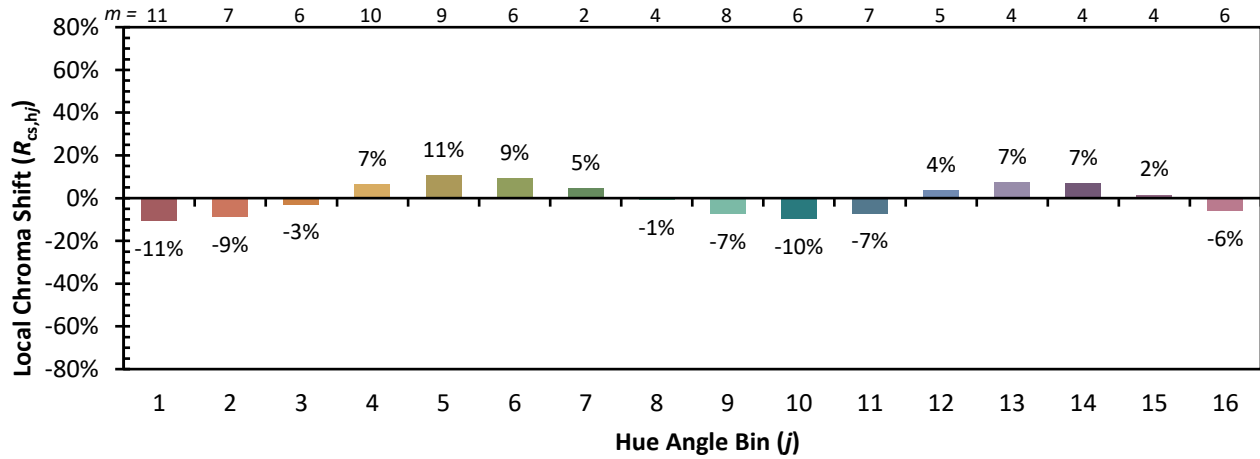


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

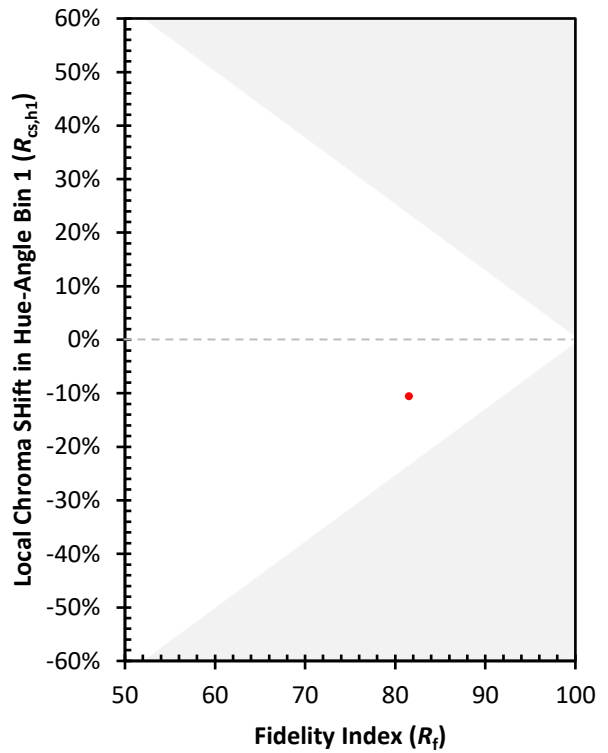
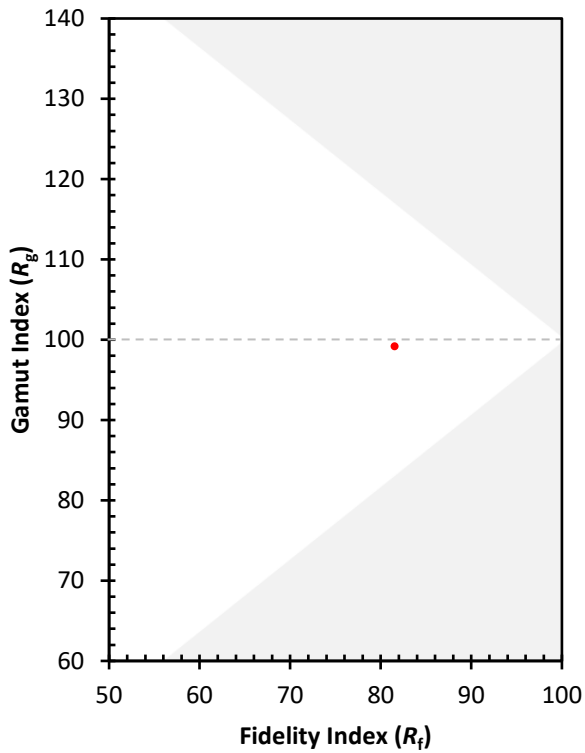
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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