

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: P320794

Luminaire Tested: **GLEON-SA0A-830-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320794  
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-SA0A-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 615mA 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: 32212 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

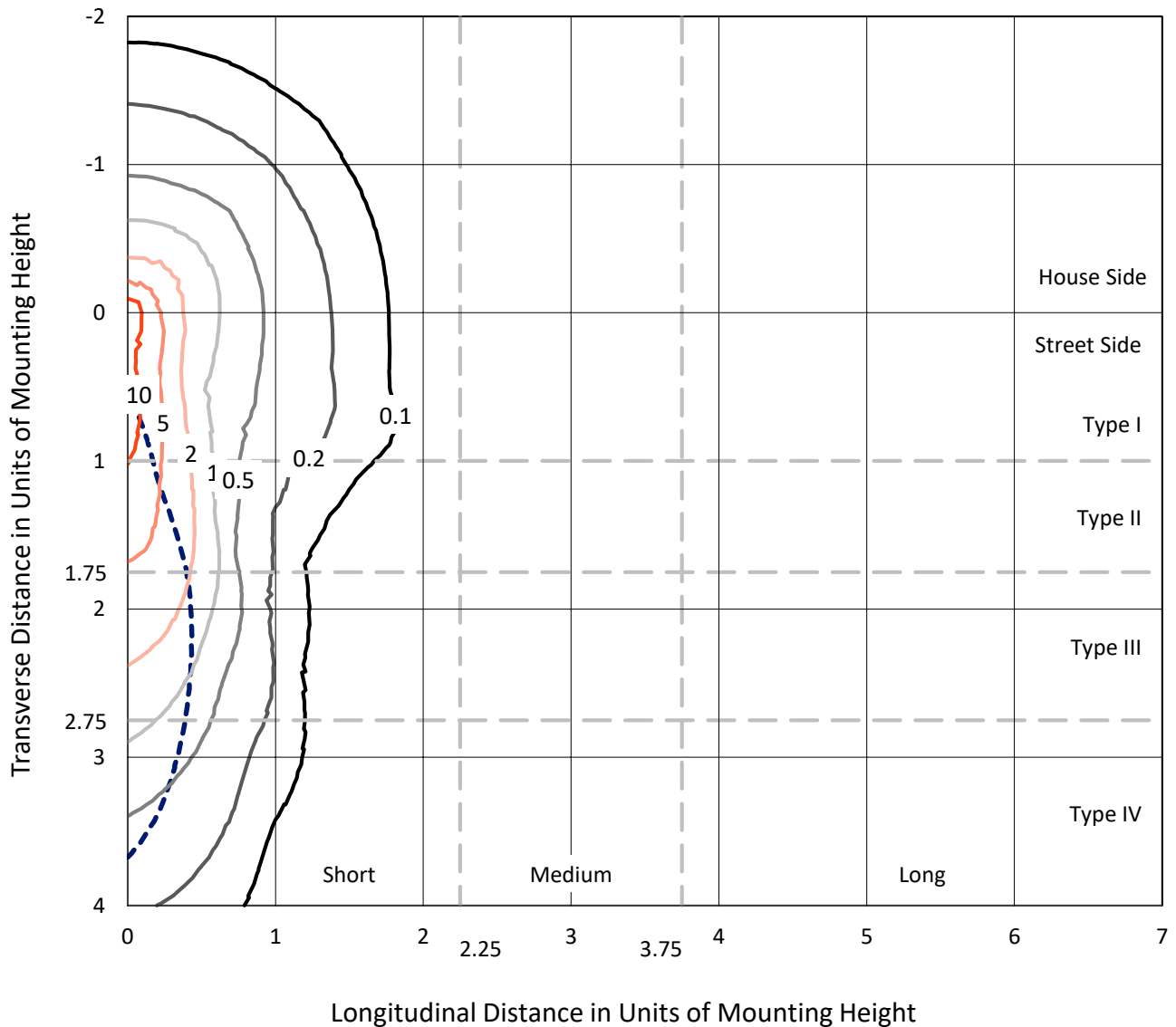
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

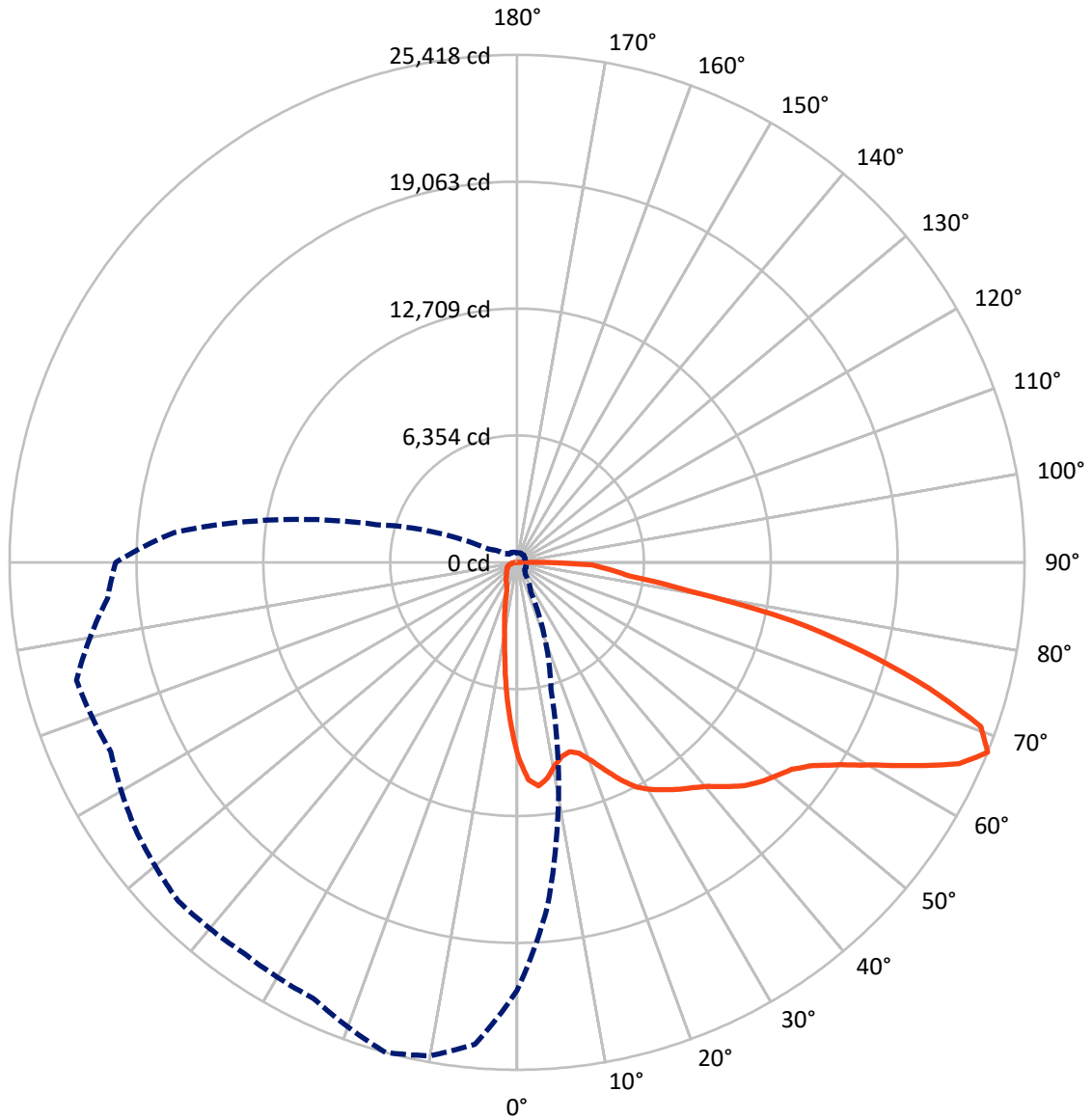
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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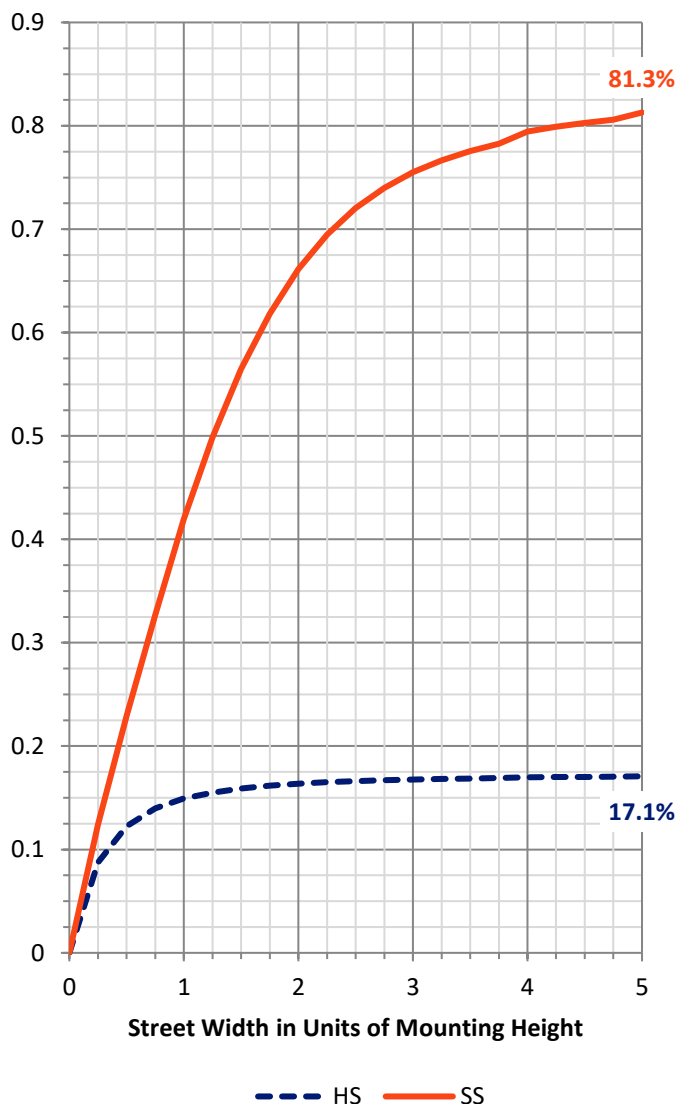
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5568.8	0.0	5568.8
	% Fixture	17.3	0.0	17.3
<b>Street Side</b>	Lumens	26643.2	0.0	26643.2
	% Fixture	82.7	0.0	82.7
<b>Total</b>	Lumens	32212.0	0.0	32212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	757.4	2.4
10°-20°	1573.4	4.9
20°-30°	2237.7	6.9
30°-40°	3224.5	10.0
40°-50°	4544.3	14.1
50°-60°	6317.3	19.6
60°-70°	7639.5	23.7
70°-80°	4695.9	14.6
80°-90°	1221.9	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°	32212.0	100.0
0°-180°	32212.0	100.0

**Coefficient of Utilization**

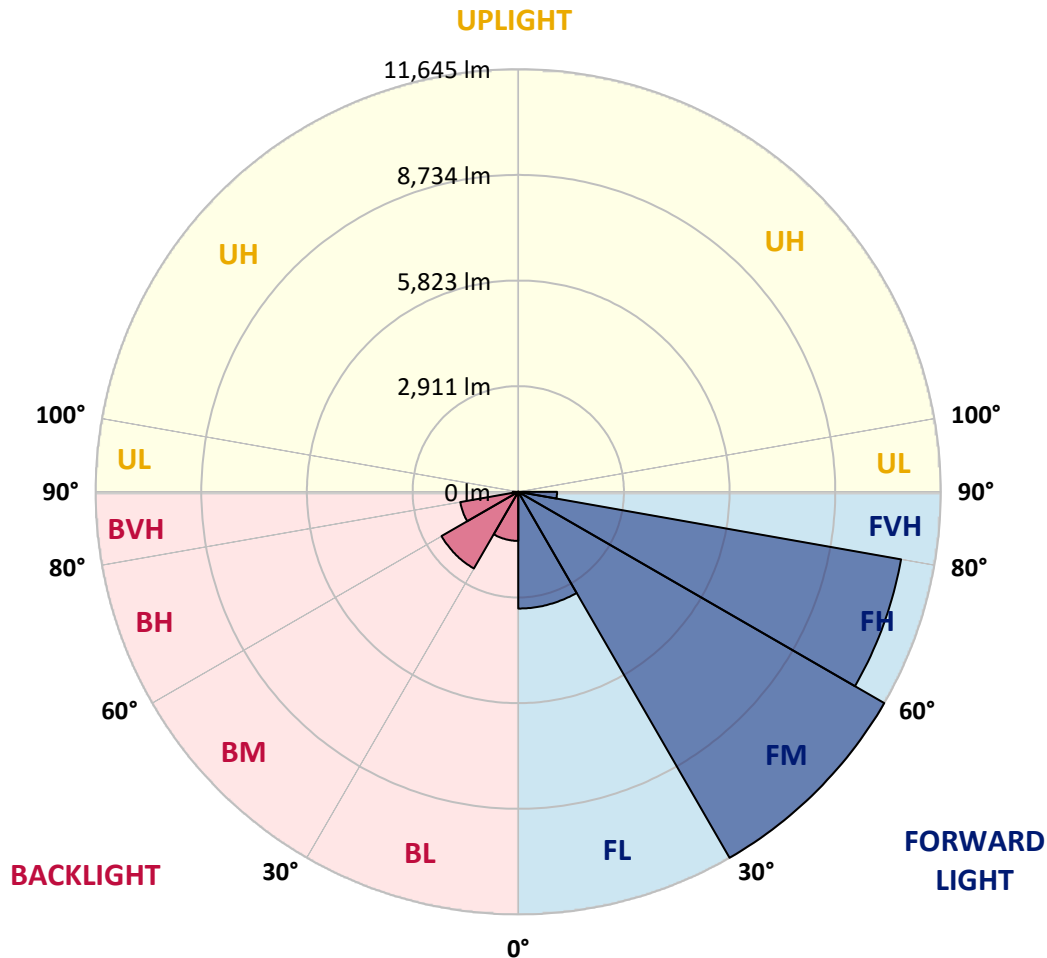


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3216.4	10.0			
FM (30°-60°)	11645.4	36.2			
FH (60°-80°)	10712.6	33.3			G4/12000
FVH (80°-90°)	1068.7	3.3			G5
BL (0°-30°)	1352.0	4.2	B3/2500		
BM (30°-60°)	2440.7	7.6	B2/2500		
BH (60°-80°)	1622.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	153.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6
2.5°	10512.9	10420.2	10279.8	10139.4	10035.1	9929.5	9809.7	9690.0	9553.5	9415.7	9334.5
5°	10339.1	10081.5	9746.6	9411.8	9190.3	8968.8	8717.6	8466.5	8217.9	7969.4	7835.4
7.5°	9556.0	9169.7	8734.4	8299.1	7977.1	7653.8	7306.1	6957.1	6648.0	6337.6	6145.7
10°	8785.9	8322.2	7822.6	7321.6	6909.5	6497.3	6148.3	5798.0	5564.9	5331.8	5155.4
12.5°	8233.4	7719.5	7169.6	6618.4	6206.3	5794.2	5572.6	5351.1	5157.9	4964.8	4761.3
15°	8014.4	7433.6	6870.8	6306.7	5932.0	5557.2	5311.2	5063.9	4805.1	4544.9	4295.1
17.5°	8207.6	7527.6	6915.9	6304.1	5813.5	5322.8	4978.9	4633.8	4292.5	3951.2	3661.4
20°	8810.4	7942.3	7142.6	6341.5	5688.5	5035.6	4574.5	4112.2	3674.3	3236.4	2908.0
22.5°	9656.5	8507.7	7463.2	6418.8	5575.2	4730.4	4152.1	3572.6	3054.8	2537.1	2215.1
25°	10684.2	9257.2	7925.6	6592.6	5528.8	4463.8	3752.9	3042.0	2495.9	1948.6	1719.3
27.5°	11767.3	10151.0	8500.0	6847.6	5536.6	4225.5	3416.7	2606.7	2114.7	1622.7	1465.6
30°	12670.1	11172.3	9169.7	7165.7	5566.2	3966.7	3099.9	2233.2	1827.5	1421.8	1320.1
32.5°	13495.6	11884.5	9674.5	7463.2	5599.7	3734.8	2855.2	1974.3	1643.3	1311.1	1227.3
35°	14348.2	12516.9	10027.4	7536.6	5541.7	3545.5	2687.8	1830.1	1524.8	1218.3	1147.5
37.5°	15287.1	13200.7	10367.4	7532.8	5443.8	3354.9	2557.7	1759.2	1447.6	1134.6	1083.1
40°	16334.1	13956.7	10735.7	7514.8	5355.0	3193.9	2461.1	1727.0	1405.1	1081.8	1038.0
42.5°	17358.0	14677.9	11078.3	7478.7	5282.9	3085.7	2365.8	1645.9	1366.4	1085.7	1023.9
45°	18126.8	15307.7	11375.8	7442.6	5228.8	3014.9	2291.1	1567.3	1330.4	1093.4	1014.8
47.5°	18710.3	15940.0	11705.5	7469.7	5223.6	2977.6	2238.3	1499.1	1262.1	1023.9	991.7
50°	19452.1	16699.9	12185.9	7671.9	5294.5	2917.0	2176.5	1434.7	1196.4	958.2	1002.0
52.5°	20375.5	17784.3	12930.3	8075.0	5442.6	2810.1	2078.6	1347.1	1116.6	884.8	953.0
55°	21731.6	19173.9	13882.0	8588.8	5621.6	2653.0	1930.5	1206.7	1011.0	813.9	874.5
57.5°	22948.6	20577.7	14795.1	9011.3	5733.6	2454.7	1743.8	1032.9	892.5	752.1	786.9
60°	23490.8	21301.5	15222.7	9142.6	5666.7	2190.7	1533.9	875.8	788.2	700.6	694.2
62.5°	23279.6	20841.7	14801.5	8761.4	5339.5	1917.6	1348.4	779.2	713.5	646.5	632.3
65°	22661.5	19396.7	13621.9	7847.0	4787.0	1727.0	1231.2	735.4	662.0	588.6	573.1
67.5°	21443.1	17340.0	11950.2	6560.4	4085.1	1609.8	1164.2	718.6	629.8	539.6	521.6
70°	19256.3	14864.7	10024.8	5183.7	3361.4	1537.7	1120.5	703.2	595.0	485.5	468.8
72.5°	15816.4	11918.0	8005.4	4091.6	2810.1	1528.7	1115.3	701.9	566.7	431.4	416.0
75°	11324.3	9052.5	6111.0	3168.2	2301.4	1434.7	1058.6	682.6	528.0	372.2	358.0
77.5°	7620.4	6265.5	4247.4	2228.0	1707.7	1187.4	889.9	592.4	452.0	311.7	297.5
80°	4893.9	4336.3	2846.2	1356.1	1107.6	859.0	636.2	413.4	329.7	244.7	233.1
82.5°	3590.6	3227.4	1978.2	728.9	615.6	501.0	388.9	276.9	225.4	173.9	168.7
85°	2282.1	2516.5	1456.6	396.7	324.5	252.4	208.6	164.8	130.1	95.3	95.3
87.5°	443.0	613.0	403.1	191.9	140.4	88.9	76.0	61.8	34.8	6.4	7.7
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



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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°	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6
2.5°	9252.1	9163.2	9074.4	8973.9	8872.2	8778.2	8682.9	8578.5	8597.9	8518.0	8438.2
5°	7701.5	7559.8	7416.9	7293.2	7169.6	7062.7	6954.5	6857.9	6941.6	6885.0	6828.3
7.5°	5952.6	5777.4	5601.0	5452.9	5304.8	5190.1	5074.2	4994.4	5076.8	5066.5	5056.2
10°	4978.9	4808.9	4637.6	4474.1	4310.5	4171.4	4031.0	3912.6	3892.0	3832.7	3772.2
12.5°	4556.5	4323.4	4089.0	3917.7	3746.4	3580.3	3414.2	3275.1	3212.0	3114.1	3014.9
15°	4045.2	3769.6	3494.0	3299.5	3103.8	2942.8	2780.5	2660.8	2620.8	2544.8	2468.9
17.5°	3371.7	3070.3	2768.9	2571.9	2373.6	2244.8	2114.7	2034.8	2034.8	2012.9	1991.1
20°	2579.6	2310.4	2041.3	1890.6	1739.9	1671.7	1602.1	1568.6	1578.9	1580.2	1580.2
22.5°	1891.9	1727.0	1562.2	1501.7	1439.8	1415.4	1390.9	1376.7	1381.9	1383.2	1384.5
25°	1490.1	1427.0	1362.6	1331.7	1299.5	1284.0	1268.6	1263.4	1275.0	1276.3	1276.3
27.5°	1308.5	1269.8	1229.9	1210.6	1190.0	1183.6	1177.1	1168.1	1179.7	1179.7	1178.4
30°	1217.0	1175.8	1134.6	1110.1	1085.7	1088.3	1089.5	1087.0	1094.7	1099.8	1103.7
32.5°	1142.3	1102.4	1062.5	1038.0	1012.3	1008.4	1004.5	1002.0	1018.7	1027.7	1036.7
35°	1075.4	1031.6	987.8	964.6	941.4	932.4	923.4	917.0	932.4	944.0	955.6
37.5°	1030.3	985.2	938.9	917.0	893.8	882.2	870.6	862.9	869.3	874.5	879.6
40°	994.2	947.9	900.2	874.5	848.7	837.1	825.5	819.1	823.0	824.2	825.5
42.5°	960.8	915.7	870.6	842.3	812.6	798.5	784.3	776.6	779.2	781.7	783.0
45°	936.3	891.2	844.8	811.4	776.6	761.1	745.7	736.7	738.0	738.0	738.0
47.5°	959.5	893.8	826.8	788.2	748.3	730.2	712.2	703.2	700.6	698.0	695.5
50°	1044.5	932.4	819.1	770.1	719.9	700.6	680.0	669.7	663.3	660.7	658.1
52.5°	1020.0	923.4	825.5	762.4	698.0	674.8	651.7	634.9	628.5	624.6	620.8
55°	933.7	873.2	811.4	735.4	659.4	638.8	616.9	605.3	593.7	591.1	588.6
57.5°	820.4	795.9	771.4	694.2	616.9	597.6	577.0	569.2	558.9	558.9	557.6
60°	686.4	722.5	758.6	669.7	579.5	557.6	535.8	529.3	525.5	524.2	522.9
62.5°	616.9	676.1	734.1	640.1	544.8	521.6	498.4	490.7	489.4	490.7	490.7
65°	557.6	575.7	593.7	549.9	506.1	483.0	458.5	450.8	453.3	457.2	461.1
67.5°	503.6	499.7	495.8	480.4	463.6	444.3	423.7	416.0	417.3	422.4	427.6
70°	452.0	446.9	440.5	428.9	417.3	400.5	383.8	378.6	377.3	383.8	388.9
72.5°	400.5	394.1	386.4	377.3	367.0	352.9	338.7	334.8	336.1	340.0	343.9
75°	343.9	338.7	332.3	324.5	315.5	302.7	289.8	287.2	289.8	293.6	297.5
77.5°	282.0	280.8	278.2	271.7	265.3	251.1	235.7	234.4	238.3	242.1	244.7
80°	220.2	221.5	222.8	217.7	212.5	197.0	180.3	179.0	182.9	186.7	190.6
82.5°	162.3	166.1	168.7	162.3	155.8	137.8	119.8	117.2	130.1	133.9	137.8
85°	94.0	99.2	104.3	99.2	94.0	76.0	58.0	56.7	68.3	74.7	81.1
87.5°	7.7	10.3	12.9	11.6	10.3	5.2	0.0	0.0	1.3	6.4	11.6
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: P320794  
 CATALOG NUMBER: GLEON-SA0A-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: P320794

CATALOG NUMBER: GLEON-SA0A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6
2.5°	8387.9	8337.7	8322.2	8306.8	8250.1	8192.2	8251.4	8309.4	8333.8	8358.3	8295.2
5°	6820.6	6811.6	6811.6	6810.3	6758.8	6706.0	6745.9	6784.5	6698.2	6612.0	6602.9
7.5°	5111.6	5167.0	5212.0	5255.8	5239.1	5222.3	5259.7	5297.0	5187.6	5076.8	5022.7
10°	3785.1	3796.7	3845.6	3894.5	3906.1	3916.4	3962.8	4007.9	3922.9	3837.9	3800.5
12.5°	2953.1	2891.3	2897.7	2902.9	2926.1	2947.9	2996.9	3044.5	3009.8	2973.7	2977.6
15°	2391.6	2313.0	2280.8	2247.3	2273.1	2298.9	2333.6	2367.1	2368.4	2368.4	2401.9
17.5°	1952.4	1912.5	1880.3	1846.8	1881.6	1915.1	1918.9	1922.8	1924.1	1925.4	1922.8
20°	1599.5	1618.9	1608.6	1598.3	1611.1	1622.7	1633.0	1642.0	1630.4	1617.6	1585.4
22.5°	1402.5	1419.2	1432.1	1443.7	1465.6	1486.2	1475.9	1464.3	1441.1	1416.7	1392.2
25°	1287.9	1299.5	1312.3	1325.2	1343.3	1360.0	1342.0	1323.9	1307.2	1290.5	1273.7
27.5°	1191.3	1202.9	1214.5	1224.8	1241.5	1257.0	1240.2	1223.5	1209.3	1195.1	1182.3
30°	1112.7	1120.5	1129.5	1138.5	1153.9	1168.1	1153.9	1138.5	1128.2	1116.6	1107.6
32.5°	1045.8	1053.5	1057.3	1061.2	1075.4	1089.5	1079.2	1068.9	1059.9	1050.9	1044.5
35°	972.3	987.8	990.4	993.0	1007.1	1021.3	1014.8	1007.1	996.8	986.5	974.9
37.5°	897.6	915.7	926.0	935.0	949.2	963.3	956.9	950.5	936.3	922.1	901.5
40°	834.5	842.3	861.6	879.6	902.8	924.7	911.8	897.6	875.8	853.9	843.6
42.5°	781.7	780.5	798.5	816.5	851.3	884.8	861.6	838.4	817.8	797.2	794.6
45°	735.4	731.5	740.5	749.5	786.9	823.0	799.8	775.3	763.7	752.1	752.1
47.5°	694.2	691.6	698.0	703.2	726.4	748.3	736.7	725.1	718.6	712.2	713.5
50°	656.8	654.2	660.7	665.8	674.8	682.6	685.1	686.4	682.6	678.7	681.3
52.5°	622.0	622.0	624.6	625.9	637.5	649.1	649.1	647.8	647.8	647.8	650.4
55°	592.4	595.0	595.0	595.0	613.0	629.8	624.6	619.5	620.8	620.8	623.3
57.5°	562.8	566.7	569.2	571.8	589.8	607.9	602.7	597.6	597.6	597.6	598.9
60°	529.3	534.5	539.6	544.8	562.8	580.8	575.7	569.2	570.5	571.8	573.1
62.5°	497.1	502.3	507.4	512.6	530.6	548.6	543.5	537.0	540.9	543.5	543.5
65°	466.2	470.1	475.2	480.4	497.1	513.9	508.7	503.6	508.7	512.6	515.2
67.5°	431.4	434.0	439.2	444.3	461.1	477.8	472.7	466.2	472.7	477.8	483.0
70°	391.5	394.1	400.5	405.7	422.4	439.2	432.7	426.3	432.7	439.2	444.3
72.5°	347.7	350.3	356.7	361.9	381.2	400.5	392.8	385.1	392.8	400.5	403.1
75°	300.1	302.7	310.4	316.8	336.1	355.5	349.0	341.3	347.7	354.2	355.5
77.5°	248.6	252.4	262.7	273.0	288.5	303.9	300.1	296.2	300.1	303.9	303.9
80°	194.5	198.3	211.2	222.8	231.8	240.8	242.1	243.4	244.7	246.0	244.7
82.5°	144.2	149.4	161.0	172.6	172.6	172.6	182.9	191.9	191.9	190.6	189.3
85°	88.9	95.3	105.6	115.9	109.5	103.0	119.8	135.2	135.2	133.9	131.4
87.5°	18.0	24.5	34.8	43.8	37.3	30.9	47.7	64.4	65.7	65.7	63.1
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: P320794  
 CATALOG NUMBER: GLEON-SA0A-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: P320794  
 CATALOG NUMBER: GLEON-SA0A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6
2.5°	8230.8	8331.3	8430.4	8456.2	8494.8	8511.6	8527.0	8653.2	8778.2	8925.0	9071.8
5°	6592.6	6667.3	6742.0	6753.6	6793.5	6814.1	6834.8	6988.0	7140.0	7344.8	7549.5
7.5°	4968.6	4986.7	5004.7	5002.1	5035.6	5080.7	5124.5	5288.0	5450.3	5670.5	5889.5
10°	3763.2	3804.4	3844.3	3881.7	3955.1	4040.1	4123.8	4291.2	4458.6	4676.3	4892.6
12.5°	2981.4	3029.1	3075.4	3116.7	3201.7	3315.0	3427.0	3627.9	3828.9	4089.0	4347.9
15°	2434.1	2430.2	2426.4	2454.7	2529.4	2653.0	2775.4	2987.9	3200.4	3486.3	3770.9
17.5°	1920.2	1900.9	1881.6	1903.5	1973.0	2074.8	2175.2	2355.5	2534.5	2811.4	3088.3
20°	1553.2	1540.3	1527.4	1548.0	1591.8	1634.3	1676.8	1806.9	1935.7	2161.1	2385.1
22.5°	1366.4	1365.1	1362.6	1374.2	1394.8	1416.7	1437.3	1500.4	1562.2	1707.7	1852.0
25°	1257.0	1255.7	1254.4	1259.5	1276.3	1293.0	1309.8	1351.0	1392.2	1461.7	1531.3
27.5°	1169.4	1166.8	1164.2	1165.5	1169.4	1195.1	1219.6	1238.9	1257.0	1304.6	1351.0
30°	1098.6	1097.3	1096.0	1096.0	1092.1	1101.1	1110.1	1139.8	1168.1	1217.0	1266.0
32.5°	1038.0	1031.6	1025.1	1011.0	1002.0	1014.8	1027.7	1058.6	1089.5	1134.6	1179.7
35°	962.0	945.3	927.3	919.5	920.8	933.7	946.6	977.5	1007.1	1056.1	1103.7
37.5°	879.6	874.5	868.0	866.7	870.6	883.5	896.4	923.4	949.2	998.1	1045.8
40°	833.3	830.7	828.1	825.5	828.1	841.0	853.9	879.6	904.1	951.7	998.1
42.5°	792.0	790.8	789.5	789.5	790.8	804.9	819.1	844.8	869.3	911.8	954.3
45°	752.1	753.4	753.4	756.0	759.8	774.0	786.9	815.2	843.6	884.8	926.0
47.5°	714.8	718.6	721.2	727.6	731.5	747.0	761.1	792.0	823.0	874.5	924.7
50°	682.6	686.4	689.0	694.2	704.5	722.5	740.5	777.9	813.9	900.2	985.2
52.5°	653.0	656.8	660.7	665.8	678.7	699.3	719.9	766.3	811.4	911.8	1012.3
55°	625.9	629.8	632.3	640.1	653.0	671.0	687.7	744.4	801.1	874.5	947.9
57.5°	600.1	604.0	606.6	611.7	618.2	637.5	655.5	716.1	776.6	828.1	878.3
60°	573.1	575.7	577.0	577.0	582.1	604.0	625.9	703.2	779.2	770.1	759.8
62.5°	543.5	546.1	547.3	543.5	549.9	573.1	596.3	696.7	797.2	735.4	673.6
65°	516.4	515.2	513.9	510.0	517.7	540.9	562.8	613.0	663.3	638.8	614.3
67.5°	486.8	483.0	479.1	473.9	481.7	502.3	521.6	538.3	555.1	557.6	560.2
70°	449.5	444.3	439.2	437.9	441.7	458.5	475.2	486.8	497.1	502.3	506.1
72.5°	405.7	401.8	398.0	395.4	396.7	410.8	423.7	434.0	444.3	448.2	450.8
75°	356.7	356.7	355.5	347.7	347.7	359.3	369.6	378.6	387.7	392.8	398.0
77.5°	303.9	305.2	305.2	294.9	293.6	305.2	315.5	323.3	329.7	334.8	338.7
80°	243.4	240.8	238.3	231.8	229.2	243.4	256.3	262.7	267.9	269.2	269.2
82.5°	186.7	181.6	175.2	161.0	162.3	177.7	191.9	197.0	202.2	202.2	202.2
85°	127.5	117.2	105.6	94.0	95.3	112.0	127.5	132.7	137.8	140.4	141.7
87.5°	60.5	50.2	38.6	29.6	29.6	43.8	56.7	59.2	61.8	67.0	72.1
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: P320794  
 CATALOG NUMBER: GLEON-SA0A-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: P320794

CATALOG NUMBER: GLEON-SA0A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6
2.5°	9183.8	9294.6	9409.2	9523.8	9655.2	9786.6	9939.8	10091.8	10221.9	10351.9	10460.1
5°	7726.0	7902.4	8109.8	8317.1	8581.1	8845.1	9168.4	9490.4	9777.5	10064.7	10398.3
7.5°	6120.0	6349.2	6619.7	6890.1	7231.4	7572.7	7991.3	8409.8	8815.5	9219.9	9732.5
10°	5133.5	5374.3	5640.9	5906.2	6253.9	6600.4	7043.4	7485.1	7941.0	8395.7	8975.2
12.5°	4615.7	4882.3	5116.7	5351.1	5633.2	5913.9	6342.8	6771.6	7307.4	7841.9	8399.5
15°	4063.2	4354.3	4635.1	4915.8	5223.6	5530.1	5947.4	6364.7	6950.7	7536.6	8178.0
17.5°	3394.8	3701.4	4043.9	4385.2	4787.0	5187.6	5722.0	6256.5	6950.7	7643.5	8399.5
20°	2698.1	3011.1	3420.6	3830.1	4329.8	4828.2	5521.1	6214.0	7149.0	8082.7	9047.3
22.5°	2128.9	2404.5	2851.4	3297.0	3873.9	4450.9	5339.5	6226.9	7449.1	8670.0	9972.0
25°	1725.8	1920.2	2359.4	2797.3	3463.1	4128.9	5228.8	6327.3	7885.7	9442.7	11057.7
27.5°	1478.5	1606.0	2015.5	2423.8	3151.4	3877.8	5183.7	6488.3	8439.4	10390.6	12238.7
30°	1354.8	1443.7	1790.1	2135.3	2874.5	3613.8	5129.6	6645.4	8972.6	11298.5	13162.1
32.5°	1251.8	1322.6	1618.9	1913.8	2635.0	3356.2	5025.3	6693.1	9344.8	11996.6	13943.8
35°	1164.2	1223.5	1481.1	1738.6	2447.0	3155.3	4850.1	6545.0	9577.9	12610.9	14757.8
37.5°	1093.4	1139.8	1378.0	1616.3	2284.7	2953.1	4650.5	6347.9	9785.3	13222.6	15673.4
40°	1038.0	1078.0	1300.8	1523.6	2130.1	2736.7	4479.2	6220.4	10071.2	13921.9	16640.6
42.5°	1007.1	1058.6	1233.8	1407.6	1983.3	2559.0	4341.4	6123.8	10336.5	14547.8	17486.8
45°	999.4	1072.8	1199.0	1325.2	1873.9	2422.5	4219.1	6014.4	10507.8	15001.2	18124.3
47.5°	986.5	1047.0	1172.0	1296.9	1819.8	2341.4	4153.4	5964.2	10679.1	15392.7	18653.6
50°	994.2	1002.0	1150.1	1296.9	1812.0	2327.2	4228.1	6129.0	11050.0	15969.7	19258.9
52.5°	980.1	946.6	1108.9	1271.1	1810.8	2350.4	4443.2	6536.0	11739.0	16940.7	19914.4
55°	905.4	861.6	1031.6	1201.6	1783.7	2364.5	4699.5	7033.1	12663.7	18293.0	21092.8
57.5°	839.7	799.8	944.0	1087.0	1701.3	2315.6	4963.5	7610.1	13641.2	19671.0	22420.6
60°	752.1	743.1	846.1	949.2	1573.8	2197.1	5181.1	8163.8	14298.0	20430.9	22931.9
62.5°	680.0	685.1	761.1	837.1	1414.1	1989.8	5253.2	8515.4	14280.0	20044.5	22416.8
65°	624.6	633.6	708.3	783.0	1277.6	1772.1	5016.3	8259.1	13557.5	18854.5	21398.0
67.5°	570.5	580.8	669.7	757.3	1156.5	1554.5	4423.9	7291.9	12258.0	17222.8	20102.4
70°	519.0	531.9	628.5	725.1	1068.9	1411.5	3660.1	5908.8	10631.4	15352.8	18602.1
72.5°	463.6	476.5	579.5	682.6	1013.6	1343.3	2984.0	4623.5	8627.5	12630.2	15911.7
75°	407.0	416.0	528.0	638.8	937.6	1236.4	2341.4	3445.1	6602.9	9760.8	12018.5
77.5°	350.3	361.9	455.9	548.6	795.9	1041.9	1764.4	2486.9	4845.0	7201.8	8358.3
80°	279.5	289.8	356.7	422.4	614.3	804.9	1213.2	1621.4	3334.3	5047.2	5698.8
82.5°	213.8	225.4	270.5	314.2	437.9	561.5	735.4	909.2	2215.1	3519.8	3573.9
85°	146.8	150.7	182.9	213.8	270.5	327.1	421.1	515.2	1465.6	2416.1	2012.9
87.5°	73.4	73.4	95.3	117.2	145.5	173.9	222.8	270.5	468.8	667.1	383.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320794  
 CATALOG NUMBER: GLEON-SA0A-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: P320794

CATALOG NUMBER: GLEON-SA0A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6
2.5°	10597.9	10691.9	10787.2	10859.4	10932.8	11038.4	11144.0	11163.3	11183.9	11142.7	11101.5
5°	10734.4	11019.1	11305.0	11569.0	11833.0	11991.4	12149.8	12182.0	12214.2	12115.0	12014.6
7.5°	10228.3	10724.1	11220.0	11674.6	12129.2	12404.8	12681.7	12743.5	12806.6	12644.4	12482.1
10°	9552.2	10161.3	10770.5	11369.4	11968.2	12368.8	12769.3	12849.1	12929.0	12726.8	12524.6
12.5°	9029.3	9679.7	10330.0	10961.1	11593.5	12008.1	12422.8	12522.0	12621.2	12474.4	12326.3
15°	8868.3	9480.0	10091.8	10641.7	11192.9	11531.6	11871.6	11911.6	11952.8	11929.6	11906.4
17.5°	9160.7	9713.2	10266.9	10565.7	10865.8	11001.0	11137.5	11181.3	11226.4	11284.4	11343.6
20°	9869.0	10257.9	10648.2	10635.3	10621.1	10555.4	10488.5	10476.9	10465.3	10631.4	10798.8
22.5°	10926.3	11080.9	11236.7	10874.8	10512.9	10292.7	10071.2	10027.4	9982.3	10158.8	10336.5
25°	12073.8	12045.5	12015.9	11326.9	10636.6	10216.7	9796.9	9747.9	9699.0	9849.7	10001.6
27.5°	13209.7	13024.3	12838.8	11902.5	10966.3	10357.1	9747.9	9699.0	9650.0	9784.0	9917.9
30°	14043.0	13745.5	13448.0	12388.1	11328.2	10604.4	9880.6	9800.7	9719.6	9884.4	10049.3
32.5°	14693.4	14294.1	13894.9	12782.2	11669.4	10886.4	10103.4	9978.5	9853.5	10073.8	10294.0
35°	15342.5	14780.9	14218.1	13133.8	12048.1	11220.0	10390.6	10237.3	10084.1	10386.7	10689.4
37.5°	16159.0	15352.8	14545.3	13529.1	12513.0	11719.7	10925.0	10767.9	10610.8	10995.9	11382.2
40°	17045.0	15969.7	14894.3	13961.9	13029.4	12411.3	11791.8	11642.4	11491.7	11960.5	12429.3
42.5°	17781.7	16544.0	15306.4	14483.4	13659.2	13223.9	12787.3	12786.0	12783.4	13258.7	13733.9
45°	18380.6	17023.1	15664.4	14992.2	14318.6	14091.9	13865.3	14046.9	14228.4	14657.3	15087.5
47.5°	18827.4	17425.0	16021.2	15574.3	15127.4	15160.9	15194.4	15564.0	15933.6	16209.2	16486.1
50°	19118.5	17789.4	16459.0	16321.2	16183.4	16483.5	16784.9	17208.6	17633.6	17821.6	18009.6
52.5°	19542.2	18284.0	17024.4	17179.0	17333.5	17946.5	18559.6	18988.4	19417.3	19486.8	19557.7
55°	20522.3	19193.2	17862.8	18159.0	18456.5	19355.5	20255.7	20590.5	20925.4	20951.2	20976.9
57.5°	21914.5	20466.9	19019.3	19338.7	19658.1	20696.2	21735.5	22096.1	22458.0	22407.7	22356.2
60°	22956.4	21676.2	20394.8	20716.8	21038.7	22051.0	23063.3	23478.0	23893.9	23783.2	23672.4
62.5°	23020.8	22336.9	21651.8	21942.8	22235.2	23226.8	24218.5	24644.8	25071.1	24877.9	24684.7
65°	21996.9	22303.4	22609.9	22706.5	22803.1	23727.8	24653.8	24979.6	25306.7	25208.9	25111.0
67.5°	20586.7	21716.2	22846.9	22652.4	22458.0	22892.0	23326.0	23662.1	23998.3	23942.9	23886.2
70°	19179.0	20687.1	22195.2	21239.6	20282.7	20103.7	19924.7	20286.6	20649.8	20425.7	20200.3
72.5°	16782.3	18389.6	19998.1	18237.6	16477.1	15865.3	15253.6	15713.4	16173.1	15816.4	15458.4
75°	13173.7	14949.7	16726.9	14626.4	12525.9	11709.4	10892.8	11288.2	11683.6	11438.9	11192.9
77.5°	9807.2	11557.4	13307.6	11172.3	9035.7	8429.1	7821.3	7938.5	8056.9	8015.7	7973.2
80°	6651.9	7871.5	9092.4	7670.6	6248.8	6295.1	6342.8	6287.4	6230.7	6313.2	6395.6
82.5°	4244.8	5186.3	6129.0	5374.3	4619.6	5052.3	5485.1	5272.6	5058.8	5137.3	5217.2
85°	2422.5	3343.3	4265.4	3975.7	3684.6	3937.0	4190.7	3861.0	3531.4	3675.6	3821.1
87.5°	638.8	1849.4	3061.3	2779.2	2497.2	2170.1	1842.9	1406.4	969.8	1416.7	1863.6
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: P320794  
 CATALOG NUMBER: GLEON-SA0A-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: P320794

CATALOG NUMBER: GLEON-SA0A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6	9813.6
2.5°	11079.6	11057.7	10979.1	10899.3	10780.8	10682.9	10512.9
5°	11875.5	11736.4	11496.9	11256.0	10988.2	10680.3	10339.1
7.5°	12157.5	11831.7	11371.9	10910.9	10496.2	10009.4	9556.0
10°	12037.8	11549.7	10952.1	10353.2	9849.7	9289.4	8785.9
12.5°	11808.5	11289.5	10631.4	9972.0	9398.9	8797.5	8233.4
15°	11493.0	11078.3	10461.4	9844.5	9267.5	8682.9	8014.4
17.5°	11147.8	10950.8	10505.2	10058.3	9558.6	8991.9	8207.6
20°	10869.7	10941.8	10764.1	10586.3	10185.8	9691.3	8810.4
22.5°	10681.6	11028.1	11164.6	11302.4	11061.6	10675.2	9656.5
25°	10576.0	11150.4	11607.6	12066.1	11959.2	11661.7	10684.2
27.5°	10622.4	11326.9	12036.5	12747.4	12846.6	12764.1	11767.3
30°	10761.5	11475.0	12339.1	13204.6	13600.0	13710.7	12670.1
32.5°	10993.3	11692.6	12634.1	13576.8	14174.4	14527.2	13495.6
35°	11343.6	11997.8	12979.2	13960.6	14733.3	15377.2	14348.2
37.5°	11945.0	12507.8	13413.2	14319.9	15321.9	16289.0	15287.1
40°	12825.9	13223.9	13988.9	14755.2	16016.0	17321.9	16334.1
42.5°	13937.4	14142.2	14748.7	15355.3	16741.1	18259.5	17358.0
45°	15141.5	15195.6	15576.9	15959.3	17315.5	18898.3	18126.8
47.5°	16300.6	16115.2	16267.2	16419.1	17755.9	19354.2	18710.3
50°	17493.2	16976.8	16896.9	16817.1	18196.4	19891.2	19452.1
52.5°	18706.4	17855.1	17539.6	17222.8	18721.8	20603.4	20375.5
55°	19893.8	18810.7	18385.7	17960.7	19525.5	21472.7	21731.6
57.5°	21128.9	19901.5	19507.4	19113.4	20706.5	22573.9	22948.6
60°	22458.0	21242.2	20926.7	20609.9	22174.6	23763.9	23490.8
62.5°	23718.8	22752.9	22586.8	22419.3	23659.6	24678.3	23279.6
65°	24561.1	24009.9	24164.4	24320.2	24782.6	24906.2	22661.5
67.5°	23998.3	24110.3	24763.3	25417.5	25099.4	24228.8	21443.1
70°	20871.3	21543.6	23090.3	24638.3	23932.6	22414.2	19256.3
72.5°	16213.1	16969.0	19265.3	21562.9	20912.5	19052.8	15816.4
75°	12045.5	12899.4	15433.9	17968.4	17065.6	14251.6	11324.3
77.5°	8545.1	9116.9	11619.2	14122.8	12650.8	9486.5	7620.4
80°	6220.4	6045.3	7440.1	8834.8	8590.1	6274.5	4893.9
82.5°	4789.6	4362.0	5018.8	5675.7	5639.6	4354.3	3590.6
85°	3649.8	3478.6	4059.4	4640.2	4143.1	2949.2	2282.1
87.5°	2127.6	2392.9	3076.7	3761.9	2823.0	895.1	443.0
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: P320794  
 CATALOG NUMBER: GLEON-SA0A-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.

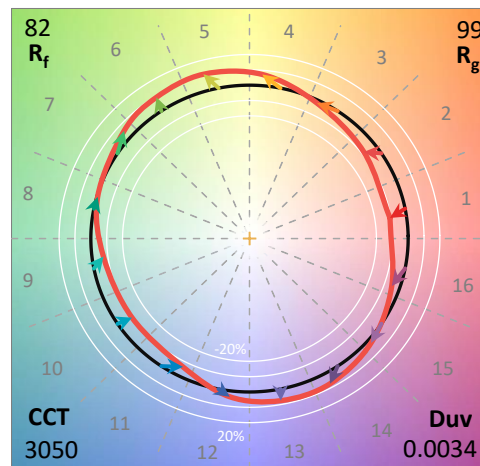
**Test Information**

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**

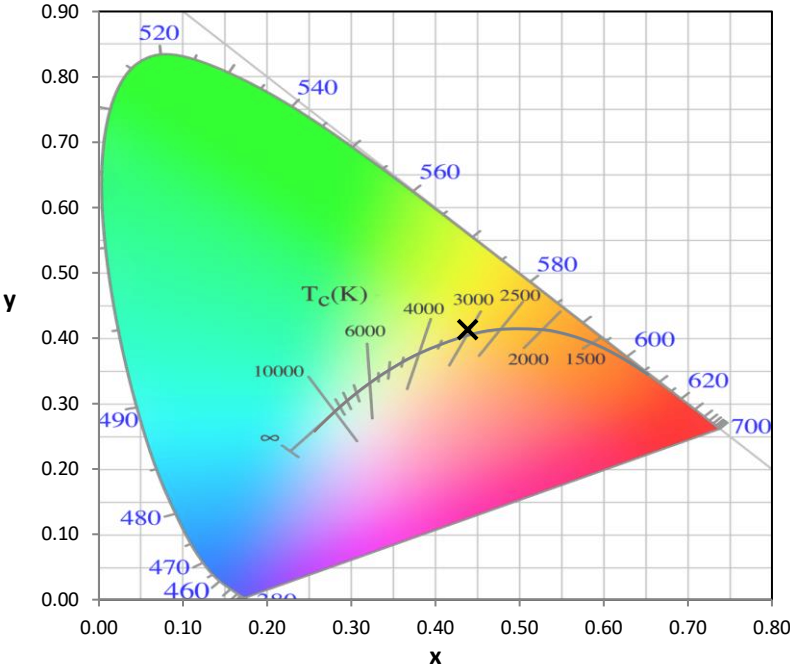
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

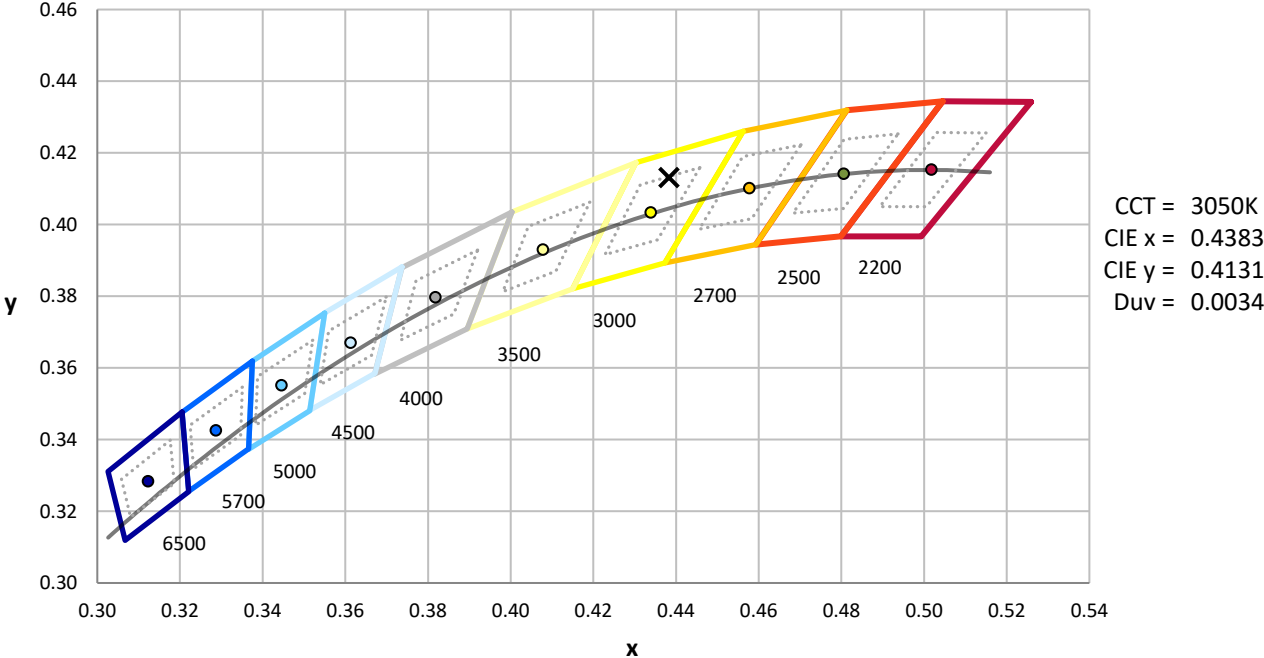
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

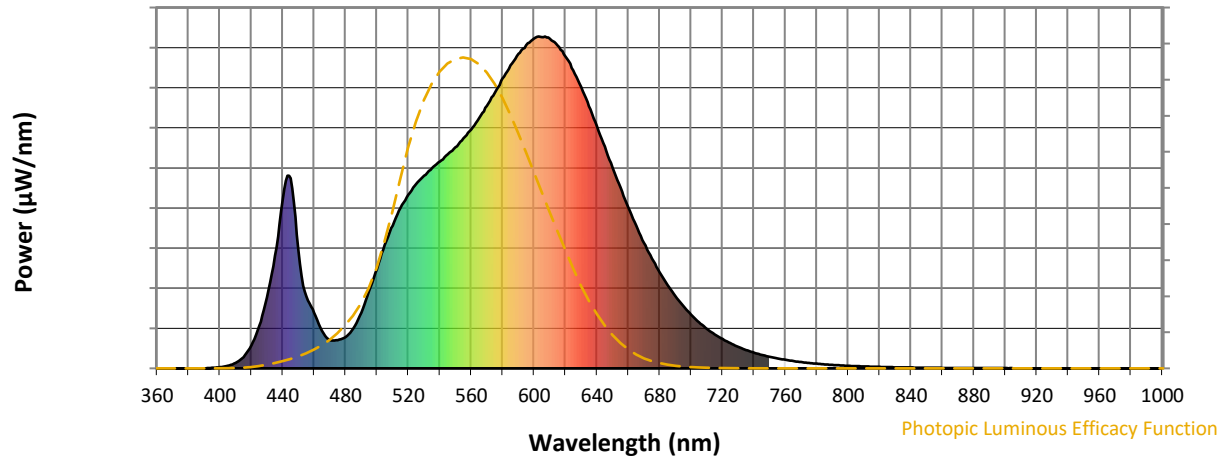


Point lies inside the ANSI 3000K 4-step quadrangle



REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**

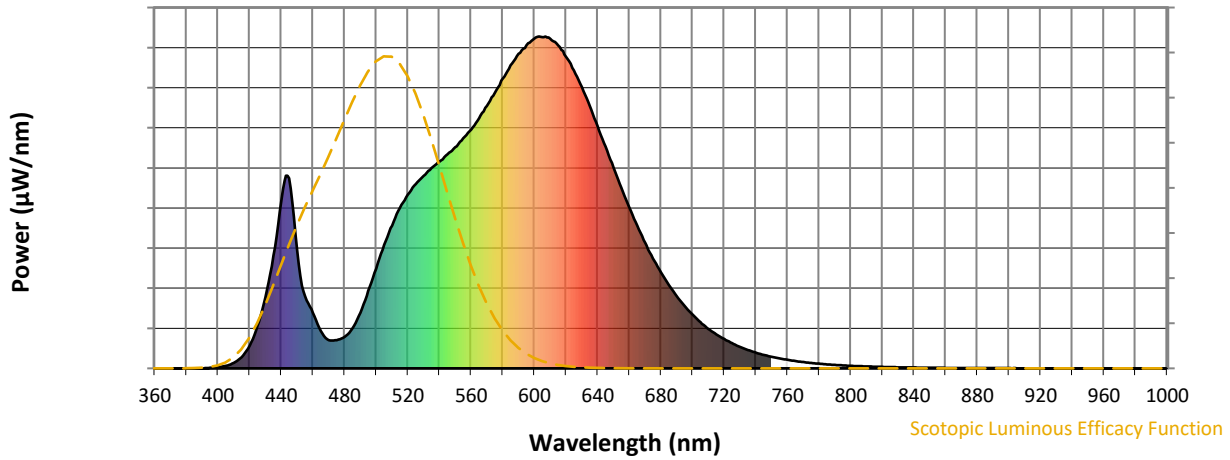


**Photopic Lumens: NR**

$\lambda$ (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**



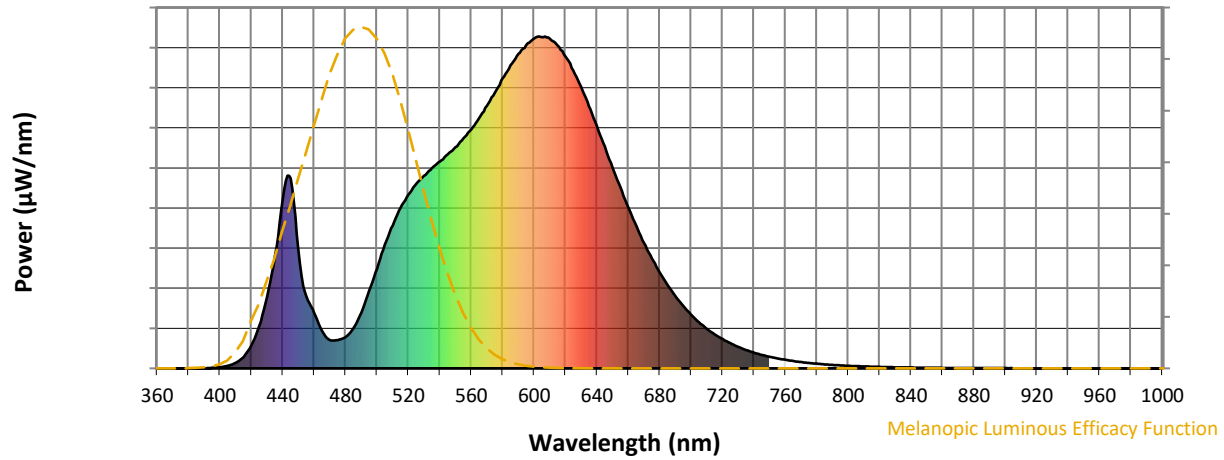
**Scotopic Lumens: NR**

**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**



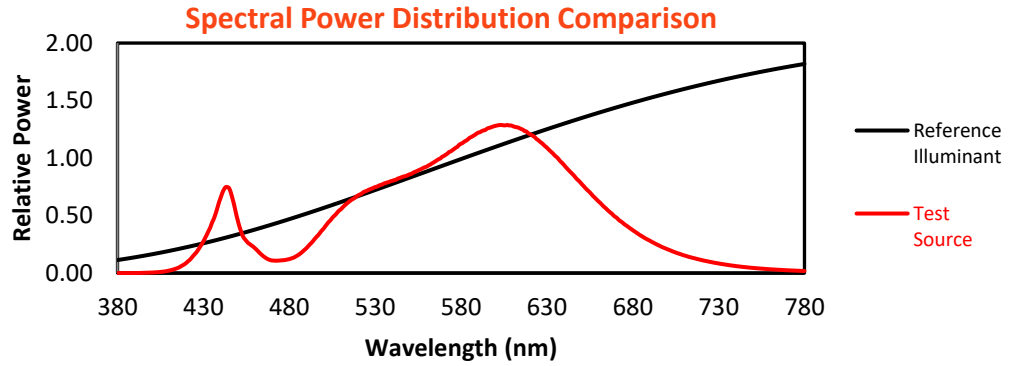
**Melanopic Lumens: NR**

**M/P: 2.32**

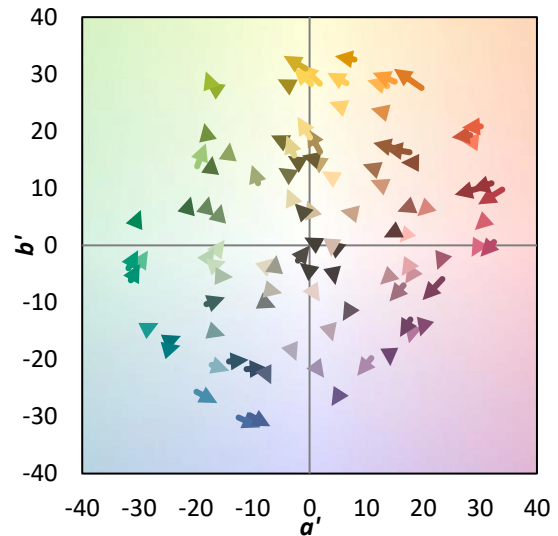
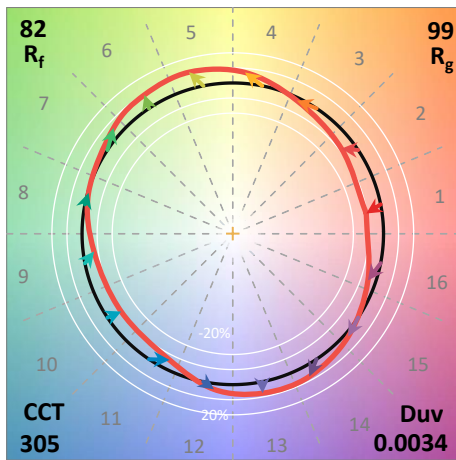
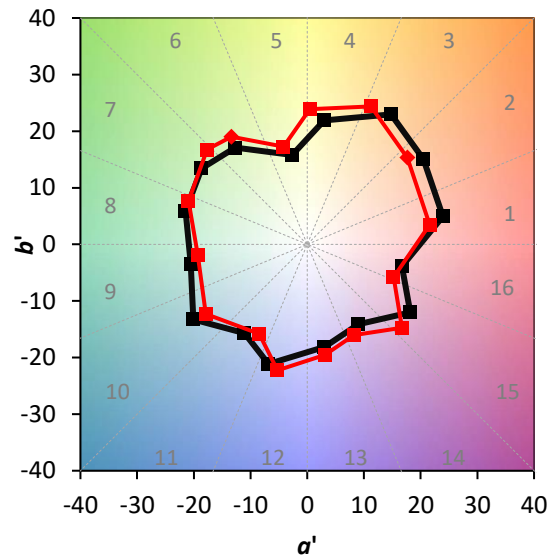
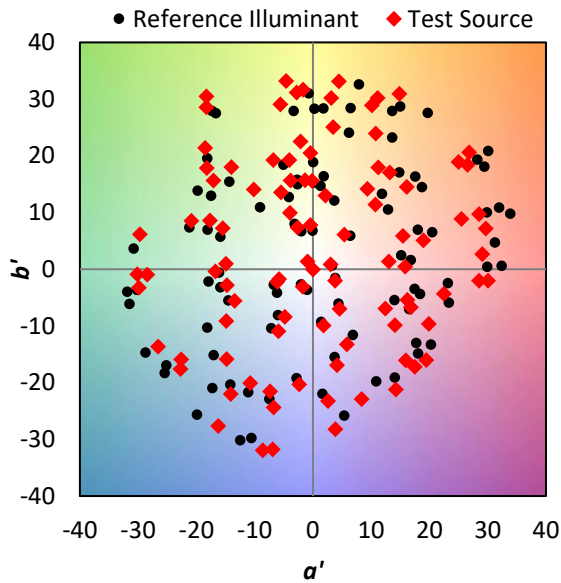
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625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

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

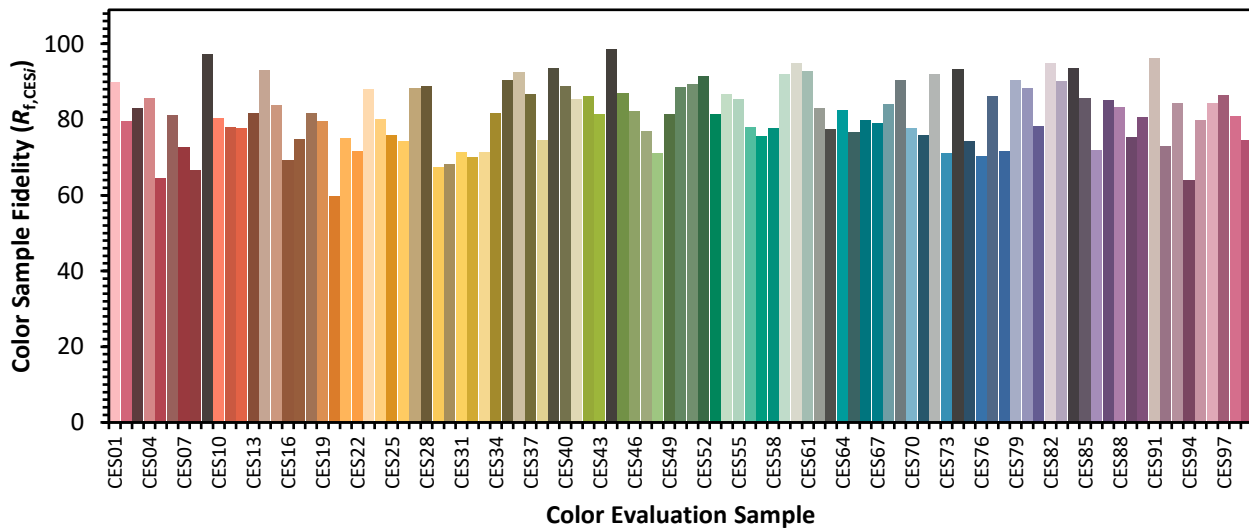


**Color Vector Graphics**

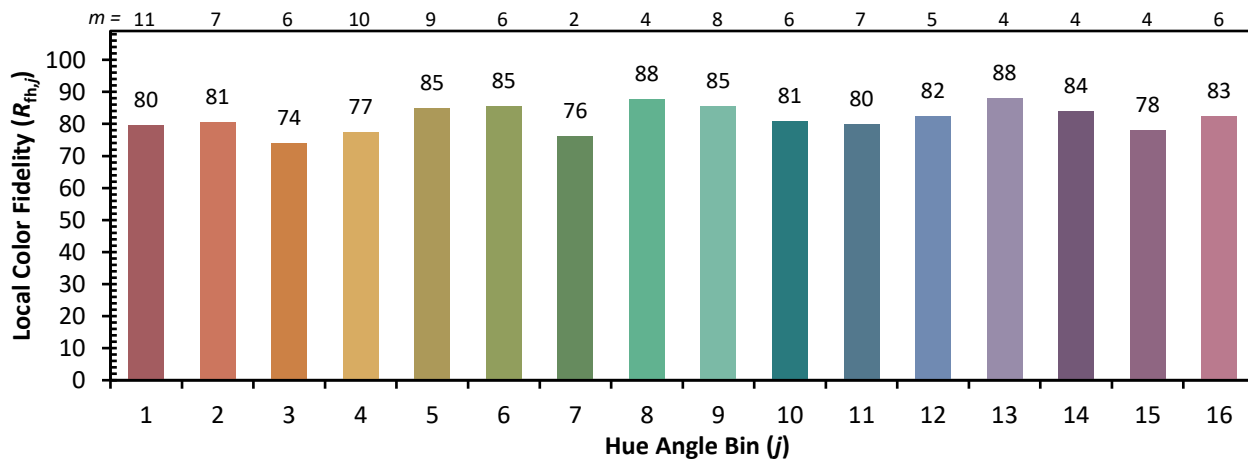
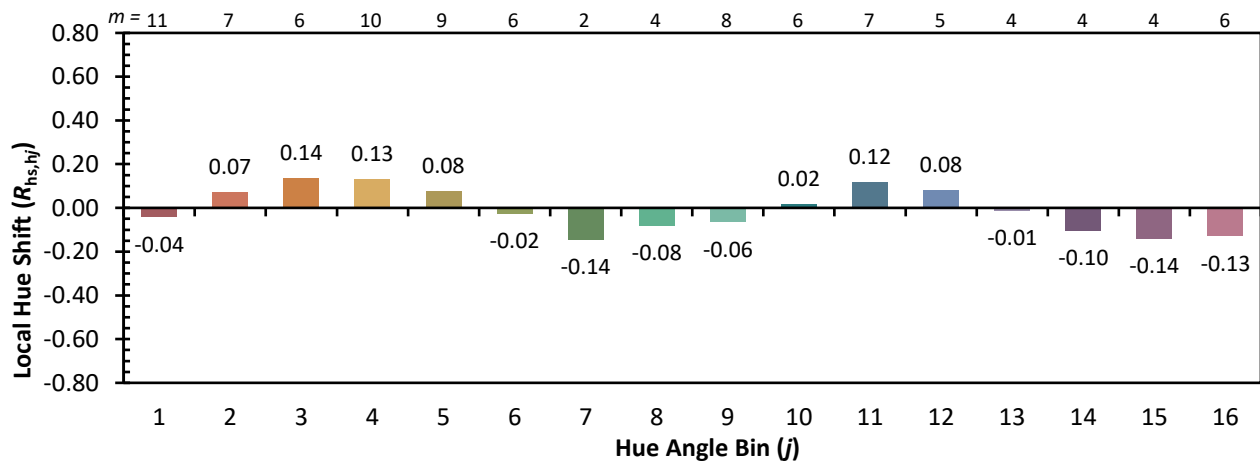
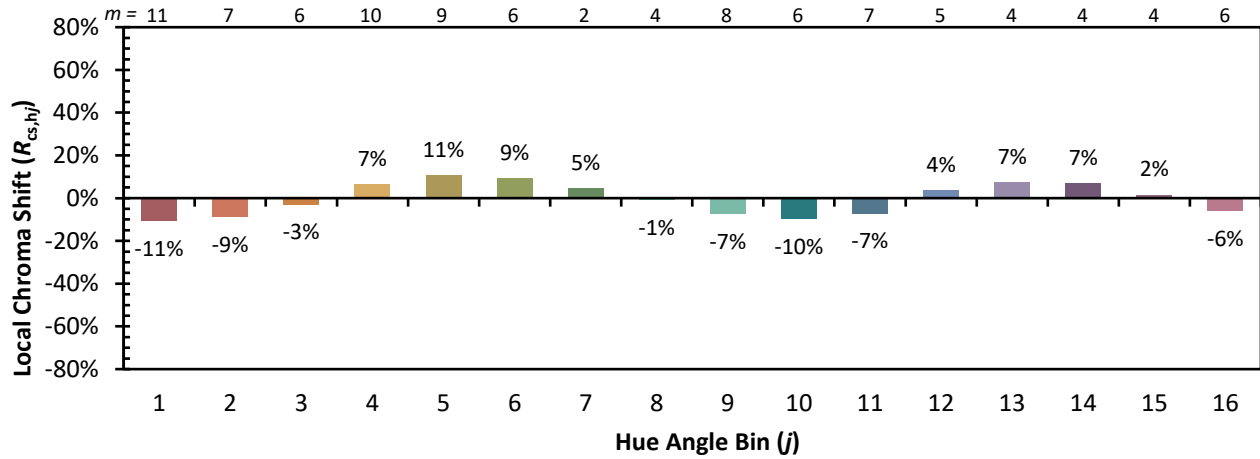


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

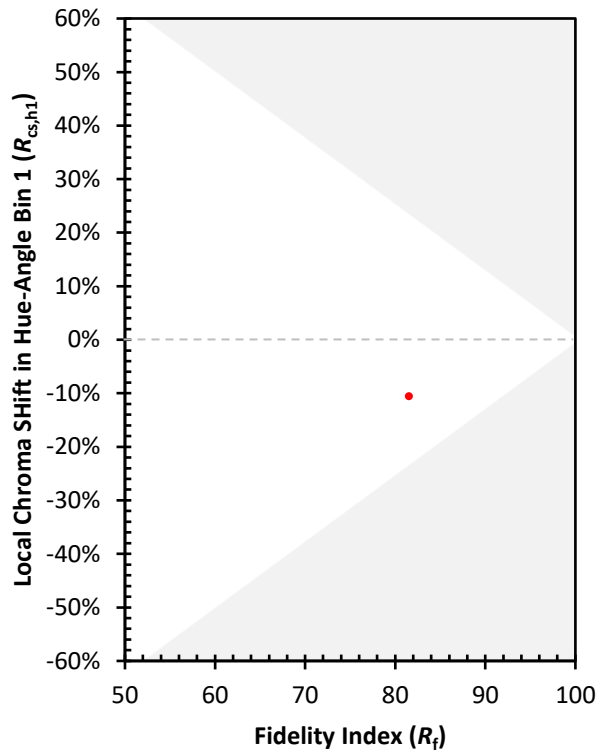
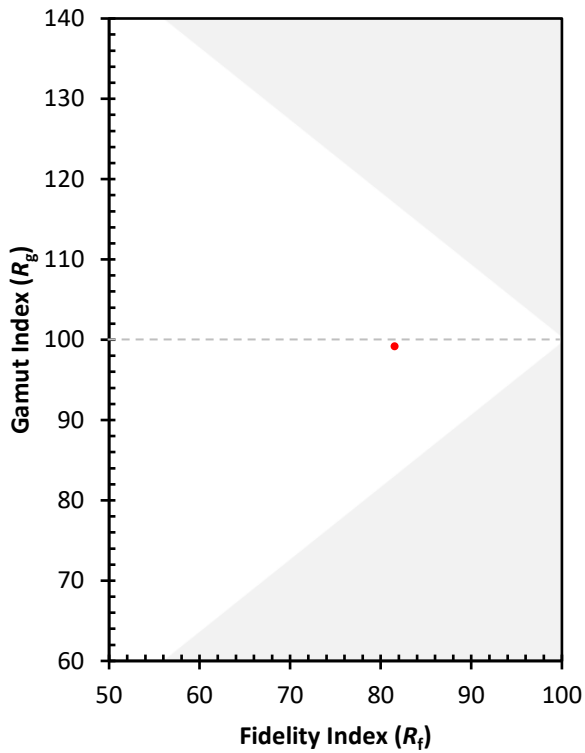
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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