

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: P320809

Luminaire Tested: **GLEON-SA5C-830-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320809  
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-SA5C-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA 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: 24687 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

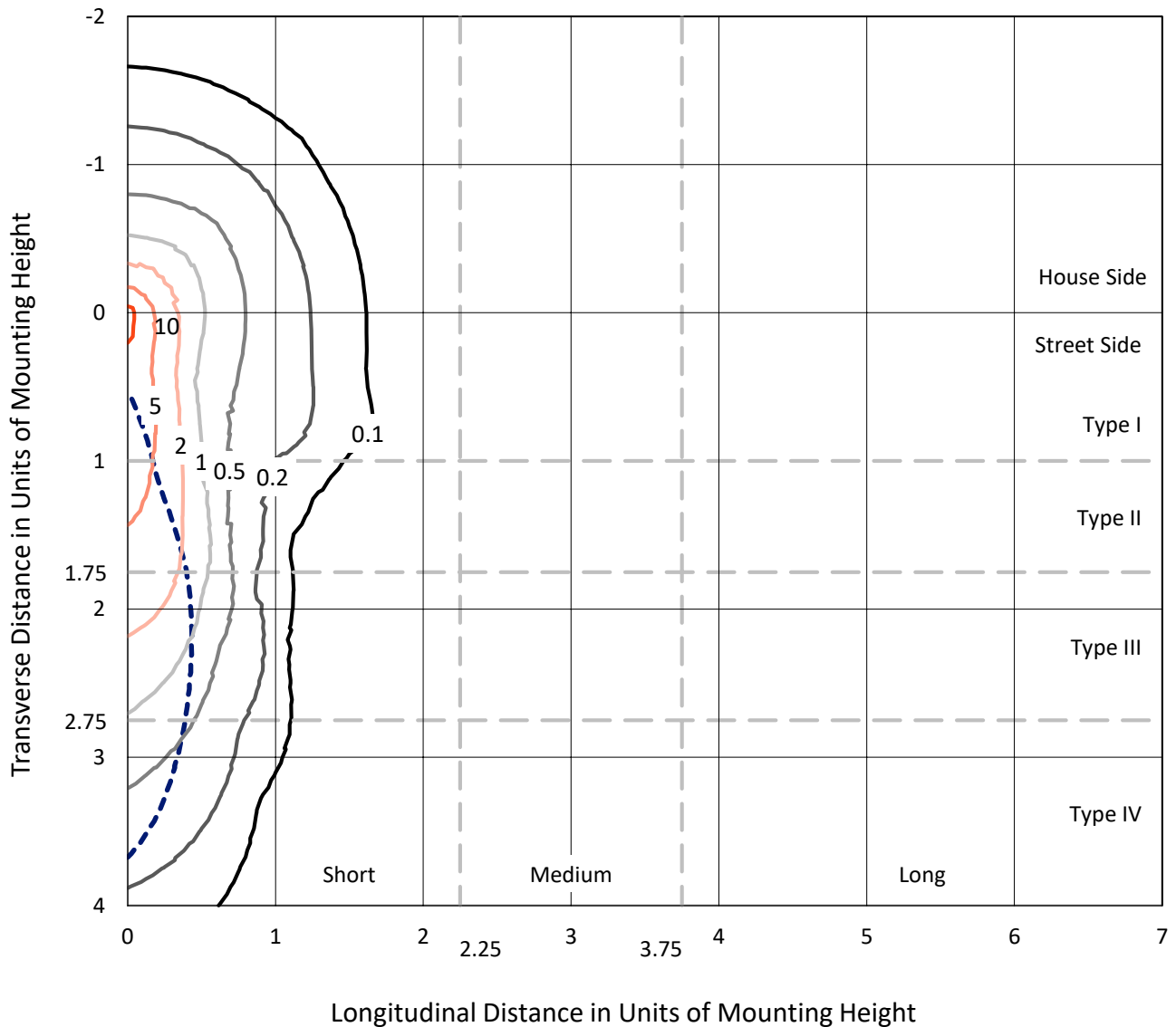
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

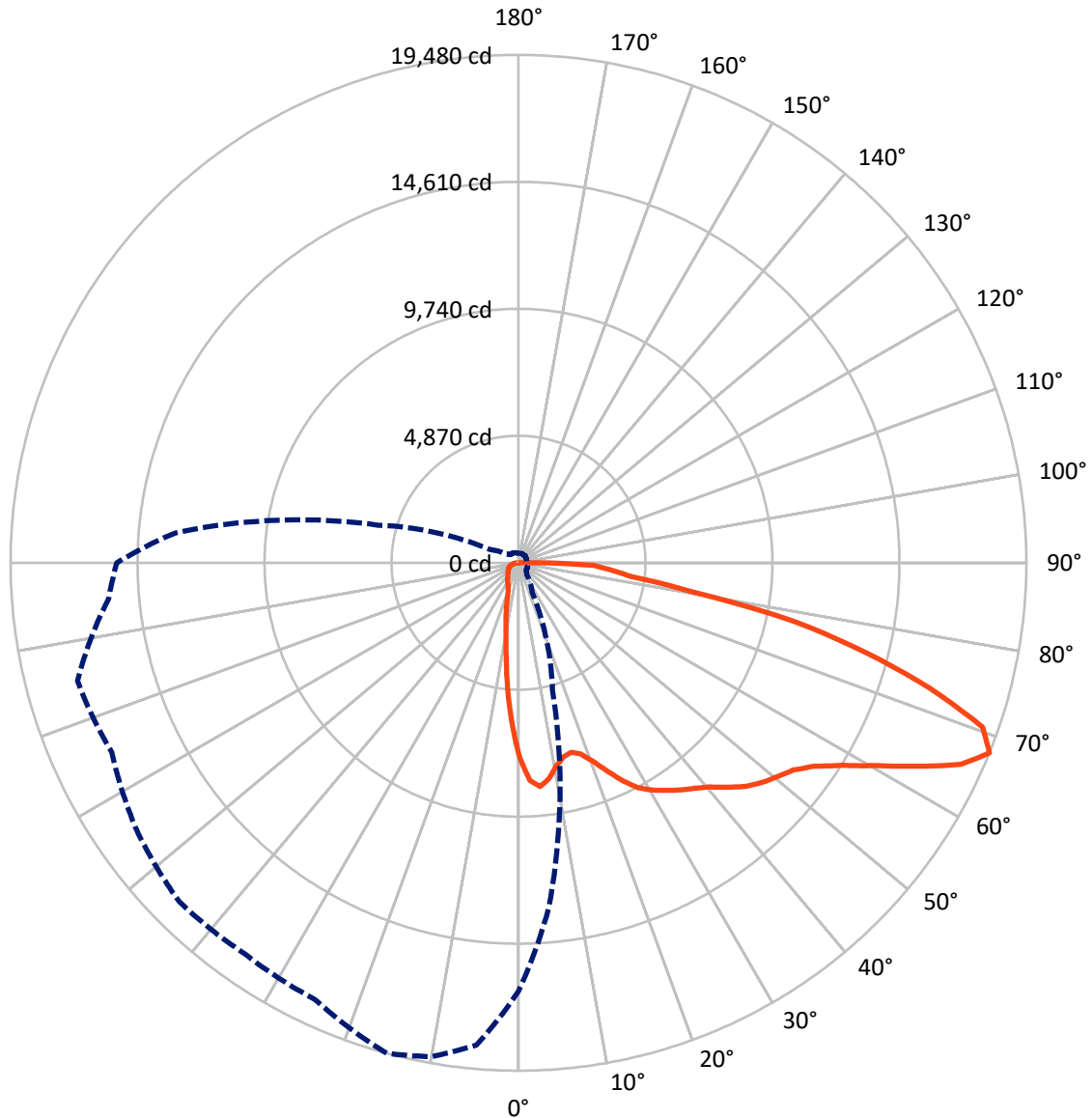
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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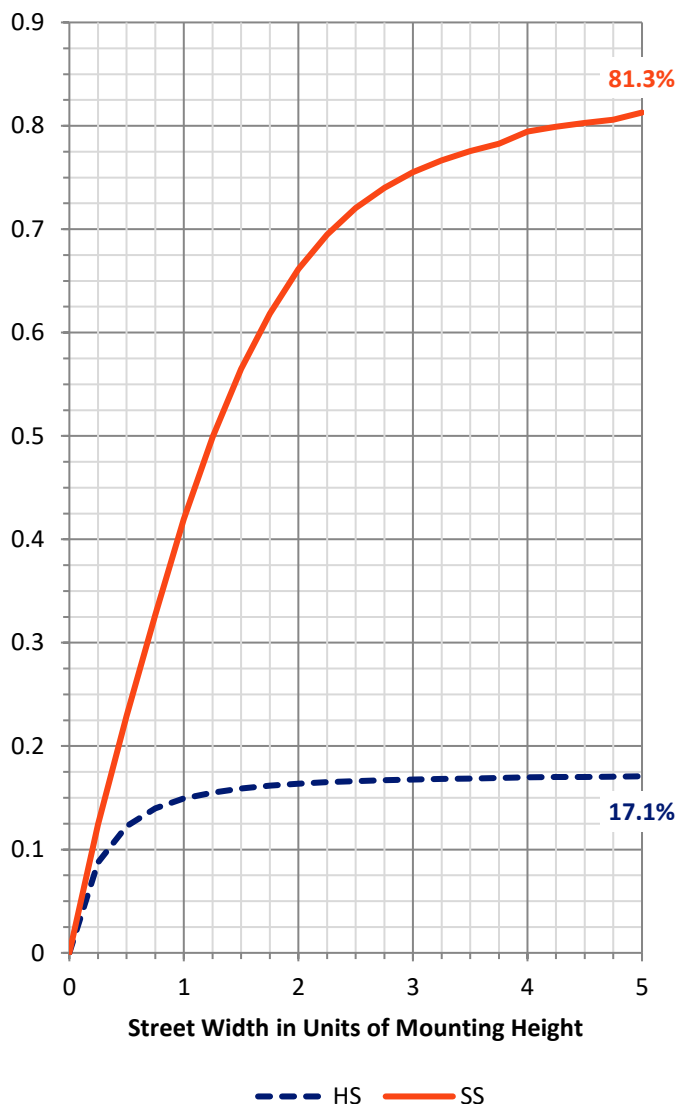
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4267.9	0.0	4267.9
	% Fixture	17.3	0.0	17.3
<b>Street Side</b>	Lumens	20419.1	0.0	20419.1
	% Fixture	82.7	0.0	82.7
<b>Total</b>	Lumens	24687.0	0.0	24687.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.5	2.4
10°-20°	1205.8	4.9
20°-30°	1715.0	6.9
30°-40°	2471.3	10.0
40°-50°	3482.7	14.1
50°-60°	4841.6	19.6
60°-70°	5854.9	23.7
70°-80°	3598.9	14.6
80°-90°	936.5	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°	24687.0	100.0
0°-180°	24687.0	100.0

**Coefficient of Utilization**

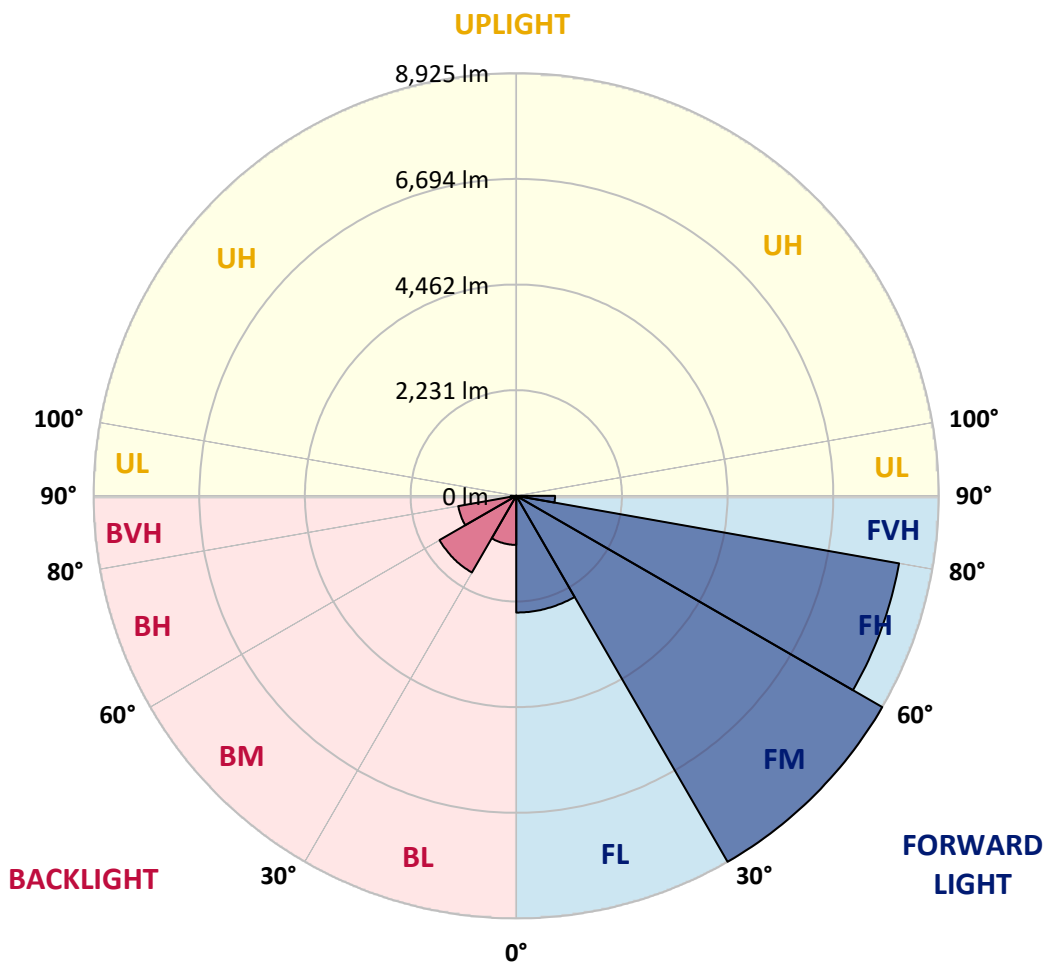


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2465.1	10.0			
FM (30°-60°)	8925.0	36.2			
FH (60°-80°)	8210.1	33.3			G4/12000
FVH (80°-90°)	819.1	3.3			G5
BL (0°-30°)	1036.2	4.2	B3/2500		
BM (30°-60°)	1870.5	7.6	B2/2500		
BH (60°-80°)	1243.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	117.4	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°	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1
2.5°	8057.0	7986.0	7878.4	7770.8	7690.8	7609.9	7518.1	7426.3	7321.7	7216.1	7153.9
5°	7923.8	7726.4	7469.7	7213.1	7043.3	6873.6	6681.1	6488.6	6298.2	6107.7	6005.0
7.5°	7323.7	7027.6	6693.9	6360.3	6113.6	5865.8	5599.3	5331.9	5095.0	4857.1	4710.0
10°	6733.4	6378.1	5995.1	5611.2	5295.3	4979.5	4712.0	4443.5	4264.9	4086.2	3951.0
12.5°	6310.0	5916.2	5494.7	5072.3	4756.4	4440.6	4270.8	4101.1	3953.0	3804.9	3649.0
15°	6142.2	5697.1	5265.7	4833.4	4546.2	4259.0	4070.5	3880.9	3682.6	3483.2	3291.7
17.5°	6290.3	5769.1	5300.3	4831.4	4455.4	4079.3	3815.8	3551.3	3289.7	3028.2	2806.1
20°	6752.2	6086.9	5474.0	4860.1	4359.7	3859.2	3505.9	3151.5	2816.0	2480.4	2228.7
22.5°	7400.6	6520.2	5719.8	4919.3	4272.8	3625.3	3182.1	2738.0	2341.2	1944.4	1697.7
25°	8188.3	7094.7	6074.1	5052.5	4237.3	3421.0	2876.2	2331.3	1912.8	1493.4	1317.7
27.5°	9018.4	7779.7	6514.3	5248.0	4243.2	3238.4	2618.6	1997.7	1620.7	1243.6	1123.2
30°	9710.3	8562.4	7027.6	5491.8	4265.9	3040.0	2375.7	1711.5	1400.6	1089.7	1011.7
32.5°	10342.9	9108.2	7414.5	5719.8	4291.5	2862.3	2188.2	1513.1	1259.4	1004.8	940.6
35°	10996.4	9592.8	7684.9	5776.0	4247.1	2717.3	2059.9	1402.6	1168.6	933.7	879.4
37.5°	11715.9	10116.9	7945.5	5773.1	4172.1	2571.2	1960.2	1348.3	1109.4	869.6	830.1
40°	12518.3	10696.3	8227.8	5759.2	4104.0	2447.8	1886.2	1323.6	1076.8	829.1	795.5
42.5°	13303.0	11249.0	8490.3	5731.6	4048.7	2364.9	1813.1	1261.4	1047.2	832.1	784.7
45°	13892.3	11731.7	8718.3	5704.0	4007.3	2310.6	1755.9	1201.2	1019.6	838.0	777.8
47.5°	14339.4	12216.3	8971.0	5724.7	4003.3	2282.0	1715.4	1148.9	967.3	784.7	760.0
50°	14907.9	12798.6	9339.1	5879.7	4057.6	2235.6	1668.1	1099.5	916.9	734.3	767.9
52.5°	15615.6	13629.7	9909.6	6188.6	4171.1	2153.7	1593.0	1032.4	855.7	678.1	730.4
55°	16654.9	14694.7	10639.1	6582.4	4308.3	2033.3	1479.5	924.8	774.8	623.8	670.2
57.5°	17587.6	15770.5	11338.8	6906.2	4394.2	1881.3	1336.4	791.6	684.0	576.4	603.1
60°	18003.2	16325.3	11666.5	7006.8	4342.9	1678.9	1175.5	671.2	604.1	536.9	532.0
62.5°	17841.3	15972.9	11343.8	6714.7	4092.2	1469.7	1033.4	597.1	546.8	495.5	484.6
65°	17367.5	14865.5	10439.7	6013.9	3668.7	1323.6	943.6	563.6	507.3	451.1	439.2
67.5°	16433.8	13289.2	9158.5	5027.9	3130.8	1233.8	892.3	550.8	482.7	413.6	399.7
70°	14757.9	11392.1	7682.9	3972.7	2576.1	1178.5	858.7	538.9	456.0	372.1	359.3
72.5°	12121.5	9133.9	6135.3	3135.8	2153.7	1171.6	854.8	537.9	434.3	330.7	318.8
75°	8678.8	6937.7	4683.4	2428.1	1763.8	1099.5	811.3	523.1	404.7	285.2	274.4
77.5°	5840.2	4801.8	3255.2	1707.5	1308.8	910.0	682.0	454.0	346.4	238.9	228.0
80°	3750.7	3323.3	2181.3	1039.3	848.8	658.3	487.6	316.8	252.7	187.5	178.6
82.5°	2751.8	2473.5	1516.1	558.7	471.8	383.9	298.1	212.2	172.7	133.2	129.3
85°	1749.0	1928.6	1116.3	304.0	248.7	193.5	159.9	126.3	99.7	73.0	73.0
87.5°	339.5	469.8	308.9	147.1	107.6	68.1	58.2	47.4	26.6	4.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1
2.5°	7090.7	7022.6	6954.5	6877.5	6799.6	6727.5	6654.5	6574.5	6589.3	6528.1	6466.9
5°	5902.4	5793.8	5684.2	5589.5	5494.7	5412.8	5329.9	5255.9	5320.0	5276.6	5233.2
7.5°	4562.0	4427.8	4292.5	4179.0	4065.5	3977.7	3888.8	3827.6	3890.8	3882.9	3875.0
10°	3815.8	3685.5	3554.2	3428.9	3303.5	3196.9	3089.4	2998.6	2982.8	2937.4	2891.0
12.5°	3492.1	3313.4	3133.8	3002.5	2871.2	2743.9	2616.6	2510.0	2461.6	2386.6	2310.6
15°	3100.2	2889.0	2677.8	2528.7	2378.7	2255.3	2131.0	2039.2	2008.6	1950.3	1892.1
17.5°	2584.0	2353.0	2122.1	1971.1	1819.1	1720.4	1620.7	1559.5	1559.5	1542.7	1525.9
20°	1977.0	1770.7	1564.4	1448.9	1333.5	1281.1	1227.8	1202.2	1210.1	1211.1	1211.1
22.5°	1449.9	1323.6	1197.3	1150.9	1103.5	1084.7	1066.0	1055.1	1059.1	1060.1	1061.0
25°	1142.0	1093.6	1044.3	1020.6	995.9	984.1	972.2	968.3	977.1	978.1	978.1
27.5°	1002.8	973.2	942.6	927.8	912.0	907.1	902.1	895.2	904.1	904.1	903.1
30°	932.7	901.1	869.6	850.8	832.1	834.0	835.0	833.0	839.0	842.9	845.9
32.5°	875.5	844.9	814.3	795.5	775.8	772.8	769.9	767.9	780.7	787.6	794.5
35°	824.2	790.6	757.0	739.3	721.5	714.6	707.7	702.8	714.6	723.5	732.4
37.5°	789.6	755.1	719.5	702.8	685.0	676.1	667.2	661.3	666.2	670.2	674.1
40°	762.0	726.4	689.9	670.2	650.4	641.6	632.7	627.7	630.7	631.7	632.7
42.5°	736.3	701.8	667.2	645.5	622.8	612.0	601.1	595.2	597.1	599.1	600.1
45°	717.6	683.0	647.5	621.8	595.2	583.3	571.5	564.6	565.6	565.6	565.6
47.5°	735.3	685.0	633.7	604.1	573.5	559.6	545.8	538.9	536.9	535.0	533.0
50°	800.5	714.6	627.7	590.2	551.7	536.9	521.1	513.2	508.3	506.3	504.4
52.5°	781.7	707.7	632.7	584.3	535.0	517.2	499.4	486.6	481.7	478.7	475.7
55°	715.6	669.2	621.8	563.6	505.4	489.6	472.8	463.9	455.0	453.0	451.1
57.5°	628.7	610.0	591.2	532.0	472.8	458.0	442.2	436.3	428.4	428.4	427.4
60°	526.1	553.7	581.4	513.2	444.2	427.4	410.6	405.7	402.7	401.7	400.7
62.5°	472.8	518.2	562.6	490.5	417.5	399.7	382.0	376.1	375.1	376.1	376.1
65°	427.4	441.2	455.0	421.5	387.9	370.1	351.4	345.5	347.4	350.4	353.4
67.5°	385.9	383.0	380.0	368.2	355.3	340.5	324.7	318.8	319.8	323.7	327.7
70°	346.4	342.5	337.6	328.7	319.8	307.0	294.1	290.2	289.2	294.1	298.1
72.5°	307.0	302.0	296.1	289.2	281.3	270.4	259.6	256.6	257.6	260.6	263.5
75°	263.5	259.6	254.7	248.7	241.8	231.9	222.1	220.1	222.1	225.0	228.0
77.5°	216.2	215.2	213.2	208.3	203.3	192.5	180.6	179.6	182.6	185.6	187.5
80°	168.8	169.8	170.8	166.8	162.9	151.0	138.2	137.2	140.2	143.1	146.1
82.5°	124.4	127.3	129.3	124.4	119.4	105.6	91.8	89.8	99.7	102.6	105.6
85°	72.1	76.0	79.9	76.0	72.1	58.2	44.4	43.4	52.3	57.2	62.2
87.5°	5.9	7.9	9.9	8.9	7.9	3.9	0.0	0.0	1.0	4.9	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320809  
 CATALOG NUMBER: GLEON-SA5C-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: P320809

CATALOG NUMBER: GLEON-SA5C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1
2.5°	6428.4	6389.9	6378.1	6366.3	6322.8	6278.4	6323.8	6368.2	6387.0	6405.7	6357.4
5°	5227.2	5220.3	5220.3	5219.3	5179.9	5139.4	5170.0	5199.6	5133.5	5067.3	5060.4
7.5°	3917.5	3959.9	3994.5	4028.0	4015.2	4002.4	4031.0	4059.6	3975.7	3890.8	3849.4
10°	2900.8	2909.7	2947.2	2984.7	2993.6	3001.5	3037.0	3071.6	3006.5	2941.3	2912.7
12.5°	2263.2	2215.9	2220.8	2224.7	2242.5	2259.3	2296.8	2333.3	2306.7	2279.0	2282.0
15°	1832.9	1772.7	1748.0	1722.3	1742.1	1761.8	1788.5	1814.1	1815.1	1815.1	1840.8
17.5°	1496.3	1465.7	1441.0	1415.4	1442.0	1467.7	1470.7	1473.6	1474.6	1475.6	1473.6
20°	1225.9	1240.7	1232.8	1224.9	1234.8	1243.6	1251.5	1258.4	1249.6	1239.7	1215.0
22.5°	1074.9	1087.7	1097.6	1106.4	1123.2	1139.0	1131.1	1122.2	1104.5	1085.7	1067.0
25°	987.0	995.9	1005.8	1015.6	1029.5	1042.3	1028.5	1014.7	1001.8	989.0	976.2
27.5°	913.0	921.9	930.8	938.7	951.5	963.3	950.5	937.7	926.8	916.0	906.1
30°	852.8	858.7	865.6	872.5	884.4	895.2	884.4	872.5	864.6	855.7	848.8
32.5°	801.5	807.4	810.3	813.3	824.2	835.0	827.1	819.2	812.3	805.4	800.5
35°	745.2	757.0	759.0	761.0	771.8	782.7	777.8	771.8	764.0	756.1	747.2
37.5°	688.0	701.8	709.7	716.6	727.4	738.3	733.4	728.4	717.6	706.7	690.9
40°	639.6	645.5	660.3	674.1	691.9	708.7	698.8	688.0	671.2	654.4	646.5
42.5°	599.1	598.1	612.0	625.8	652.4	678.1	660.3	642.5	626.8	611.0	609.0
45°	563.6	560.6	567.5	574.4	603.1	630.7	612.9	594.2	585.3	576.4	576.4
47.5°	532.0	530.0	535.0	538.9	556.7	573.5	564.6	555.7	550.8	545.8	546.8
50°	503.4	501.4	506.3	510.3	517.2	523.1	525.1	526.1	523.1	520.2	522.1
52.5°	476.7	476.7	478.7	479.7	488.6	497.5	497.5	496.5	496.5	496.5	498.4
55°	454.0	456.0	456.0	456.0	469.8	482.7	478.7	474.8	475.7	475.7	477.7
57.5°	431.3	434.3	436.3	438.2	452.1	465.9	461.9	458.0	458.0	458.0	459.0
60°	405.7	409.6	413.6	417.5	431.3	445.1	441.2	436.3	437.2	438.2	439.2
62.5°	381.0	384.9	388.9	392.8	406.7	420.5	416.5	411.6	414.5	416.5	416.5
65°	357.3	360.3	364.2	368.2	381.0	393.8	389.9	385.9	389.9	392.8	394.8
67.5°	330.7	332.6	336.6	340.5	353.4	366.2	362.2	357.3	362.2	366.2	370.1
70°	300.1	302.0	307.0	310.9	323.7	336.6	331.6	326.7	331.6	336.6	340.5
72.5°	266.5	268.5	273.4	277.4	292.2	307.0	301.0	295.1	301.0	307.0	308.9
75°	230.0	231.9	237.9	242.8	257.6	272.4	267.5	261.6	266.5	271.4	272.4
77.5°	190.5	193.5	201.4	209.2	221.1	232.9	230.0	227.0	230.0	232.9	232.9
80°	149.0	152.0	161.9	170.8	177.7	184.6	185.6	186.5	187.5	188.5	187.5
82.5°	110.5	114.5	123.4	132.3	132.3	132.3	140.2	147.1	147.1	146.1	145.1
85°	68.1	73.0	80.9	88.8	83.9	79.0	91.8	103.6	103.6	102.6	100.7
87.5°	13.8	18.8	26.6	33.6	28.6	23.7	36.5	49.4	50.3	50.3	48.4
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: P320809  
 CATALOG NUMBER: GLEON-SA5C-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: P320809  
 CATALOG NUMBER: GLEON-SA5C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1
2.5°	6308.0	6385.0	6461.0	6480.8	6510.4	6523.2	6535.0	6631.8	6727.5	6840.0	6952.5
5°	5052.5	5109.8	5167.0	5175.9	5206.5	5222.3	5238.1	5355.6	5472.0	5629.0	5785.9
7.5°	3807.9	3821.7	3835.5	3833.6	3859.2	3893.8	3927.3	4052.7	4177.1	4345.8	4513.6
10°	2884.1	2915.6	2946.2	2974.9	3031.1	3096.3	3160.4	3288.7	3417.1	3583.9	3749.7
12.5°	2284.9	2321.5	2357.0	2388.6	2453.7	2540.6	2626.5	2780.4	2934.4	3133.8	3332.2
15°	1865.5	1862.5	1859.5	1881.3	1938.5	2033.3	2127.0	2289.9	2452.7	2671.9	2890.0
17.5°	1471.6	1456.8	1442.0	1458.8	1512.1	1590.1	1667.1	1805.3	1942.4	2154.7	2366.9
20°	1190.3	1180.5	1170.6	1186.4	1220.0	1252.5	1285.1	1384.8	1483.5	1656.2	1828.0
22.5°	1047.2	1046.2	1044.3	1053.1	1068.9	1085.7	1101.5	1149.9	1197.3	1308.8	1419.3
25°	963.3	962.3	961.4	965.3	978.1	991.0	1003.8	1035.4	1067.0	1120.3	1173.6
27.5°	896.2	894.2	892.3	893.2	896.2	916.0	934.7	949.5	963.3	999.8	1035.4
30°	841.9	840.9	840.0	840.0	837.0	843.9	850.8	873.5	895.2	932.7	970.2
32.5°	795.5	790.6	785.7	774.8	767.9	777.8	787.6	811.3	835.0	869.6	904.1
35°	737.3	724.5	710.7	704.7	705.7	715.6	725.5	749.1	771.8	809.4	845.9
37.5°	674.1	670.2	665.2	664.3	667.2	677.1	687.0	707.7	727.4	764.9	801.5
40°	638.6	636.6	634.7	632.7	634.7	644.5	654.4	674.1	692.9	729.4	764.9
42.5°	607.0	606.0	605.0	605.0	606.0	616.9	627.7	647.5	666.2	698.8	731.4
45°	576.4	577.4	577.4	579.4	582.3	593.2	603.1	624.8	646.5	678.1	709.7
47.5°	547.8	550.8	552.7	557.7	560.6	572.5	583.3	607.0	630.7	670.2	708.7
50°	523.1	526.1	528.1	532.0	539.9	553.7	567.5	596.2	623.8	689.9	755.1
52.5°	500.4	503.4	506.3	510.3	520.2	535.9	551.7	587.3	621.8	698.8	775.8
55°	479.7	482.7	484.6	490.5	500.4	514.2	527.1	570.5	613.9	670.2	726.4
57.5°	459.9	462.9	464.9	468.8	473.8	488.6	502.4	548.8	595.2	634.7	673.1
60°	439.2	441.2	442.2	442.2	446.1	462.9	479.7	538.9	597.1	590.2	582.3
62.5°	416.5	418.5	419.5	416.5	421.5	439.2	457.0	534.0	611.0	563.6	516.2
65°	395.8	394.8	393.8	390.9	396.8	414.5	431.3	469.8	508.3	489.6	470.8
67.5°	373.1	370.1	367.2	363.2	369.1	384.9	399.7	412.6	425.4	427.4	429.4
70°	344.5	340.5	336.6	335.6	338.5	351.4	364.2	373.1	381.0	384.9	387.9
72.5°	310.9	307.9	305.0	303.0	304.0	314.9	324.7	332.6	340.5	343.5	345.5
75°	273.4	273.4	272.4	266.5	266.5	275.4	283.3	290.2	297.1	301.0	305.0
77.5°	232.9	233.9	233.9	226.0	225.0	233.9	241.8	247.7	252.7	256.6	259.6
80°	186.5	184.6	182.6	177.7	175.7	186.5	196.4	201.4	205.3	206.3	206.3
82.5°	143.1	139.2	134.2	123.4	124.4	136.2	147.1	151.0	155.0	155.0	155.0
85°	97.7	89.8	80.9	72.1	73.0	85.9	97.7	101.7	105.6	107.6	108.6
87.5°	46.4	38.5	29.6	22.7	22.7	33.6	43.4	45.4	47.4	51.3	55.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320809  
 CATALOG NUMBER: GLEON-SA5C-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: P320809  
 CATALOG NUMBER: GLEON-SA5C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1
2.5°	7038.4	7123.3	7211.1	7299.0	7399.7	7500.3	7617.8	7734.3	7833.9	7933.6	8016.5
5°	5921.1	6056.3	6215.2	6374.2	6576.5	6778.8	7026.6	7273.3	7493.4	7713.5	7969.2
7.5°	4690.3	4866.0	5073.3	5280.5	5542.1	5803.7	6124.4	6445.2	6756.1	7066.1	7458.9
10°	3934.2	4118.8	4323.1	4526.5	4793.0	5058.5	5398.0	5736.5	6085.9	6434.4	6878.5
12.5°	3537.5	3741.8	3921.4	4101.1	4317.2	4532.4	4861.1	5189.7	5600.3	6009.9	6437.3
15°	3114.0	3337.1	3552.3	3767.4	4003.3	4238.2	4558.0	4877.8	5326.9	5776.0	6267.6
17.5°	2601.8	2836.7	3099.2	3360.8	3668.7	3975.7	4385.3	4794.9	5326.9	5857.9	6437.3
20°	2067.8	2307.6	2621.5	2935.4	3318.3	3700.3	4231.3	4762.4	5478.9	6194.5	6933.8
22.5°	1631.5	1842.8	2185.3	2526.8	2968.9	3411.1	4092.2	4772.2	5708.9	6644.6	7642.5
25°	1322.6	1471.6	1808.2	2143.8	2654.1	3164.4	4007.3	4849.2	6043.5	7236.8	8474.5
27.5°	1133.1	1230.8	1544.7	1857.6	2415.2	2971.9	3972.7	4972.6	6467.9	7963.2	9379.6
30°	1038.3	1106.4	1372.0	1636.5	2203.0	2769.6	3931.3	5093.0	6876.5	8659.1	10087.3
32.5°	959.4	1013.7	1240.7	1466.7	2019.4	2572.2	3851.3	5129.5	7161.8	9194.1	10686.4
35°	892.3	937.7	1135.1	1332.5	1875.3	2418.2	3717.1	5016.0	7340.4	9664.9	11310.2
37.5°	838.0	873.5	1056.1	1238.7	1751.0	2263.2	3564.1	4865.0	7499.4	10133.7	12012.0
40°	795.5	826.1	996.9	1167.6	1632.5	2097.4	3432.8	4767.3	7718.5	10669.6	12753.2
42.5°	771.8	811.3	945.6	1078.8	1520.0	1961.2	3327.2	4693.3	7921.8	11149.3	13401.7
45°	765.9	822.2	918.9	1015.6	1436.1	1856.6	3233.5	4609.4	8053.1	11496.8	13890.3
47.5°	756.1	802.4	898.2	993.9	1394.7	1794.4	3183.1	4570.9	8184.3	11796.8	14295.9
50°	762.0	767.9	881.4	993.9	1388.7	1783.5	3240.4	4697.2	8468.6	12239.0	14759.8
52.5°	751.1	725.5	849.8	974.2	1387.7	1801.3	3405.2	5009.1	8996.7	12983.2	15262.2
55°	693.9	660.3	790.6	920.9	1367.0	1812.2	3601.6	5390.1	9705.3	14019.6	16165.4
57.5°	643.5	612.9	723.5	833.0	1303.8	1774.7	3804.0	5832.3	10454.5	15075.7	17183.0
60°	576.4	569.5	648.5	727.4	1206.1	1683.9	3970.8	6256.7	10957.9	15658.0	17574.8
62.5°	521.1	525.1	583.3	641.6	1083.7	1524.9	4026.0	6526.2	10944.0	15361.9	17180.0
65°	478.7	485.6	542.9	600.1	979.1	1358.1	3844.4	6329.7	10390.3	14449.9	16399.3
67.5°	437.2	445.1	513.2	580.4	886.3	1191.3	3390.4	5588.5	9394.4	13199.4	15406.3
70°	397.8	407.6	481.7	555.7	819.2	1081.8	2805.1	4528.4	8147.8	11766.2	14256.5
72.5°	355.3	365.2	444.2	523.1	776.8	1029.5	2286.9	3543.4	6612.0	9679.7	12194.6
75°	311.9	318.8	404.7	489.6	718.5	947.5	1794.4	2640.3	5060.4	7480.6	9210.8
77.5°	268.5	277.4	349.4	420.5	610.0	798.5	1352.2	1905.9	3713.2	5519.4	6405.7
80°	214.2	222.1	273.4	323.7	470.8	616.9	929.8	1242.7	2555.4	3868.1	4367.5
82.5°	163.8	172.7	207.3	240.8	335.6	430.3	563.6	696.8	1697.7	2697.5	2739.0
85°	112.5	115.5	140.2	163.8	207.3	250.7	322.8	394.8	1123.2	1851.6	1542.7
87.5°	56.3	56.3	73.0	89.8	111.5	133.2	170.8	207.3	359.3	511.3	294.1
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: P320809  
 CATALOG NUMBER: GLEON-SA5C-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: P320809

CATALOG NUMBER: GLEON-SA5C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1
2.5°	8122.2	8194.2	8267.3	8322.5	8378.8	8459.7	8540.7	8555.5	8571.3	8539.7	8508.1
5°	8226.8	8444.9	8664.0	8866.4	9068.7	9190.1	9311.5	9336.2	9360.9	9284.9	9207.9
7.5°	7838.9	8218.9	8598.9	8947.3	9295.7	9506.9	9719.2	9766.5	9814.9	9690.5	9566.2
10°	7320.7	7787.6	8254.4	8713.4	9172.3	9479.3	9786.3	9847.5	9908.7	9753.7	9598.7
12.5°	6920.0	7418.4	7916.9	8400.5	8885.1	9202.9	9520.8	9596.8	9672.8	9560.2	9446.7
15°	6796.6	7265.4	7734.3	8155.7	8578.2	8837.7	9098.3	9128.9	9160.5	9142.7	9125.0
17.5°	7020.6	7444.1	7868.5	8097.5	8327.5	8431.1	8535.7	8569.3	8603.8	8648.2	8693.6
20°	7563.5	7861.6	8160.7	8150.8	8139.9	8089.6	8038.3	8029.4	8020.5	8147.8	8276.1
22.5°	8373.8	8492.3	8611.7	8334.4	8057.0	7888.2	7718.5	7684.9	7650.4	7785.6	7921.8
25°	9253.3	9231.6	9208.9	8680.8	8151.8	7830.0	7508.2	7470.7	7433.2	7548.7	7665.2
27.5°	10123.8	9981.7	9839.6	9122.0	8404.4	7937.6	7470.7	7433.2	7395.7	7498.4	7601.0
30°	10762.4	10534.4	10306.4	9494.1	8681.8	8127.1	7572.4	7511.2	7449.0	7575.4	7701.7
32.5°	11260.9	10954.9	10648.9	9796.1	8943.4	8343.3	7743.1	7647.4	7551.7	7720.4	7889.2
35°	11758.3	11328.0	10896.7	10065.6	9233.5	8598.9	7963.2	7845.8	7728.3	7960.3	8192.2
37.5°	12384.1	11766.2	11147.4	10368.6	9589.9	8981.8	8372.9	8252.4	8132.0	8427.1	8723.3
40°	13063.2	12239.0	11414.8	10700.2	9985.6	9511.9	9037.1	8922.6	8807.1	9166.4	9525.7
42.5°	13627.7	12679.2	11730.7	11100.0	10468.3	10134.7	9800.1	9799.1	9797.1	10161.3	10525.5
45°	14086.7	13046.4	12005.1	11489.9	10973.6	10799.9	10626.2	10765.4	10904.6	11233.2	11562.9
47.5°	14429.2	13354.3	12278.5	11936.0	11593.5	11619.2	11644.8	11928.1	12211.4	12422.6	12634.8
50°	14652.3	13633.7	12614.1	12508.5	12402.8	12632.8	12863.8	13188.5	13514.2	13658.3	13802.4
52.5°	14977.0	14012.7	13047.4	13165.8	13284.3	13754.1	14223.9	14552.6	14881.2	14934.5	14988.8
55°	15728.1	14709.5	13689.9	13916.9	14144.9	14833.9	15523.8	15780.4	16037.0	16056.8	16076.5
57.5°	16795.1	15685.7	14576.3	14821.0	15065.8	15861.4	16657.9	16934.2	17211.6	17173.1	17133.6
60°	17593.6	16612.5	15630.4	15877.1	16123.9	16899.7	17675.5	17993.3	18312.1	18227.2	18142.3
62.5°	17642.9	17118.8	16593.7	16816.8	17040.8	17800.8	18560.8	18887.5	19214.2	19066.2	18918.1
65°	16858.2	17093.2	17328.1	17402.1	17476.1	18184.8	18894.5	19144.2	19394.9	19319.9	19244.8
67.5°	15777.5	16643.1	17509.7	17360.6	17211.6	17544.2	17876.8	18134.5	18392.1	18349.6	18306.2
70°	14698.6	15854.4	17010.2	16277.9	15544.5	15407.3	15270.1	15547.5	15825.8	15654.1	15481.4
72.5°	12861.8	14093.6	15326.4	13977.1	12627.9	12159.1	11690.2	12042.6	12395.0	12121.5	11847.2
75°	10096.2	11457.3	12819.4	11209.5	9599.7	8974.0	8348.2	8651.2	8954.2	8766.7	8578.2
77.5°	7516.1	8857.5	10198.8	8562.4	6924.9	6460.0	5994.2	6084.0	6174.8	6143.2	6110.6
80°	5097.9	6032.6	6968.3	5878.7	4789.0	4824.5	4861.1	4818.6	4775.2	4838.4	4901.5
82.5°	3253.2	3974.7	4697.2	4118.8	3540.4	3872.1	4203.7	4040.8	3877.0	3937.2	3998.4
85°	1856.6	2562.3	3269.0	3046.9	2823.9	3017.3	3211.8	2959.1	2706.4	2816.9	2928.5
87.5°	489.6	1417.4	2346.1	2130.0	1913.8	1663.1	1412.4	1077.8	743.2	1085.7	1428.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320809  
 CATALOG NUMBER: GLEON-SA5C-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: P320809

CATALOG NUMBER: GLEON-SA5C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1	7521.1
2.5°	8491.3	8474.5	8414.3	8353.1	8262.3	8187.3	8057.0
5°	9101.3	8994.7	8811.1	8626.5	8421.2	8185.3	7923.8
7.5°	9317.4	9067.7	8715.4	8362.0	8044.2	7671.1	7323.7
10°	9225.6	8851.6	8393.6	7934.6	7548.7	7119.3	6733.4
12.5°	9050.0	8652.2	8147.8	7642.5	7203.2	6742.3	6310.0
15°	8808.1	8490.3	8017.5	7544.8	7102.6	6654.5	6142.2
17.5°	8543.6	8392.6	8051.1	7708.6	7325.6	6891.3	6290.3
20°	8330.4	8385.7	8249.5	8113.3	7806.3	7427.3	6752.2
22.5°	8186.3	8451.8	8556.4	8662.1	8477.5	8181.4	7400.6
25°	8105.4	8545.6	8896.0	9247.4	9165.4	8937.4	8188.3
27.5°	8140.9	8680.8	9224.7	9769.5	9845.5	9782.3	9018.4
30°	8247.5	8794.3	9456.6	10119.9	10422.9	10507.8	9710.3
32.5°	8425.2	8961.1	9682.6	10405.1	10863.1	11133.5	10342.9
35°	8693.6	9195.0	9947.2	10699.3	11291.5	11785.0	10996.4
37.5°	9154.6	9585.9	10279.8	10974.6	11742.5	12483.8	11715.9
40°	9829.7	10134.7	10721.0	11308.2	12274.5	13275.4	12518.3
42.5°	10681.5	10838.4	11303.3	11768.2	12830.2	13993.9	13303.0
45°	11604.4	11645.8	11938.0	12231.1	13270.4	14483.5	13892.3
47.5°	12492.7	12350.5	12467.0	12583.5	13608.0	14832.9	14339.4
50°	13406.6	13010.9	12949.7	12888.5	13945.6	15244.5	14907.9
52.5°	14336.4	13684.0	13442.2	13199.4	14348.3	15790.3	15615.6
55°	15246.4	14416.4	14090.6	13764.9	14964.2	16456.5	16654.9
57.5°	16193.0	15252.4	14950.3	14648.3	15869.3	17300.4	17587.6
60°	17211.6	16279.8	16038.0	15795.2	16994.4	18212.4	18003.2
62.5°	18177.9	17437.6	17310.3	17182.0	18132.5	18913.2	17841.3
65°	18823.4	18400.9	18519.4	18638.8	18993.2	19087.9	17367.5
67.5°	18392.1	18477.9	18978.4	19479.8	19236.0	18568.7	16433.8
70°	15995.6	16510.8	17696.2	18882.6	18341.7	17178.0	14757.9
72.5°	12425.6	13004.9	14764.8	16525.6	16027.2	14601.9	12121.5
75°	9231.6	9886.0	11828.4	13770.9	13079.0	10922.3	8678.8
77.5°	6548.9	6987.1	8904.9	10823.6	9695.5	7270.4	5840.2
80°	4767.3	4633.1	5702.0	6770.9	6583.4	4808.7	3750.7
82.5°	3670.7	3343.0	3846.4	4349.8	4322.1	3337.1	2751.8
85°	2797.2	2665.9	3111.1	3556.2	3175.2	2260.3	1749.0
87.5°	1630.6	1833.9	2358.0	2883.1	2163.5	686.0	339.5
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: P320809  
 CATALOG NUMBER: GLEON-SA5C-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.

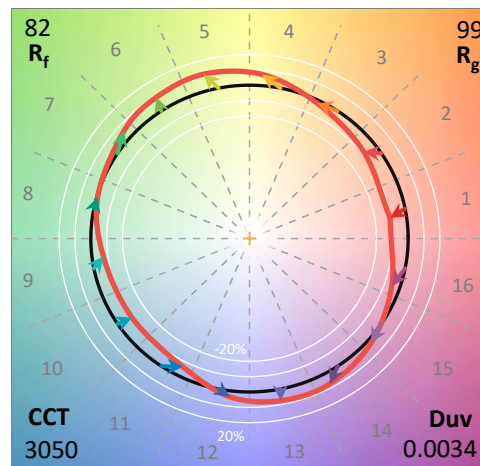
**Test Information**

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		



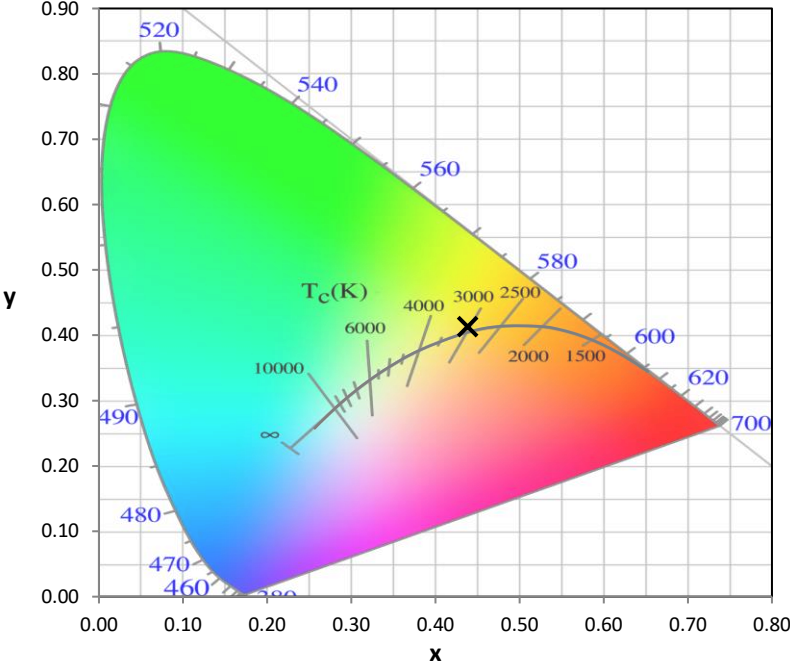
**Test Conditions**  
 Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

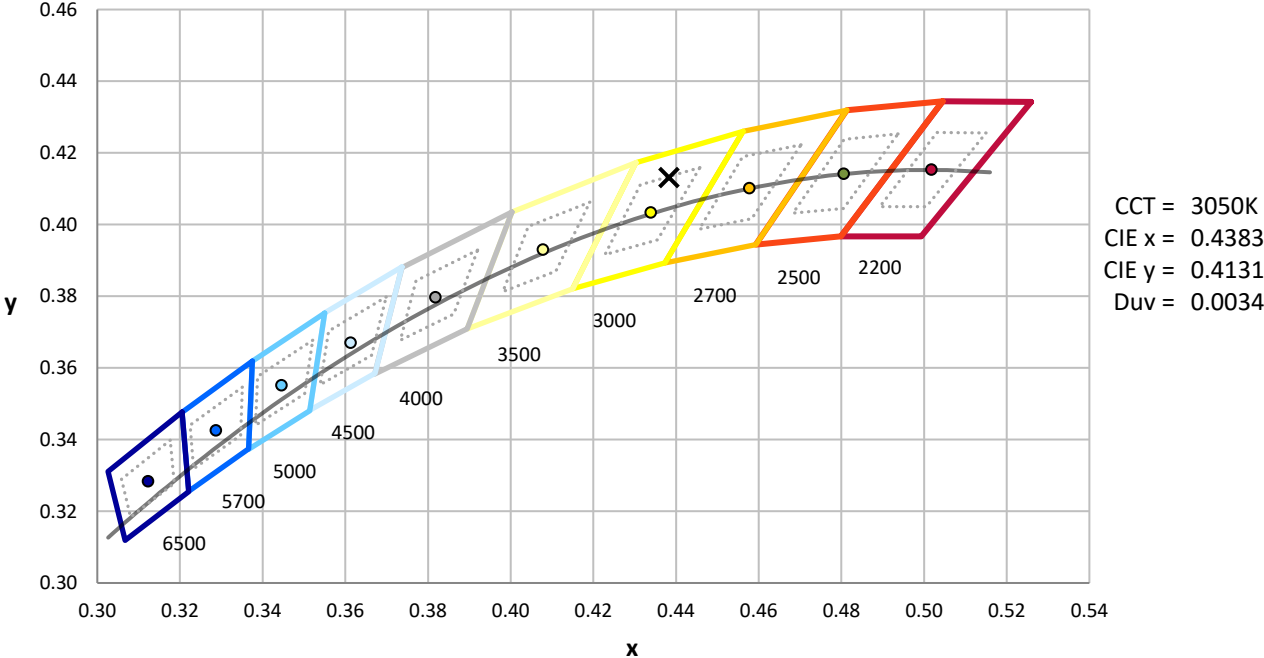
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

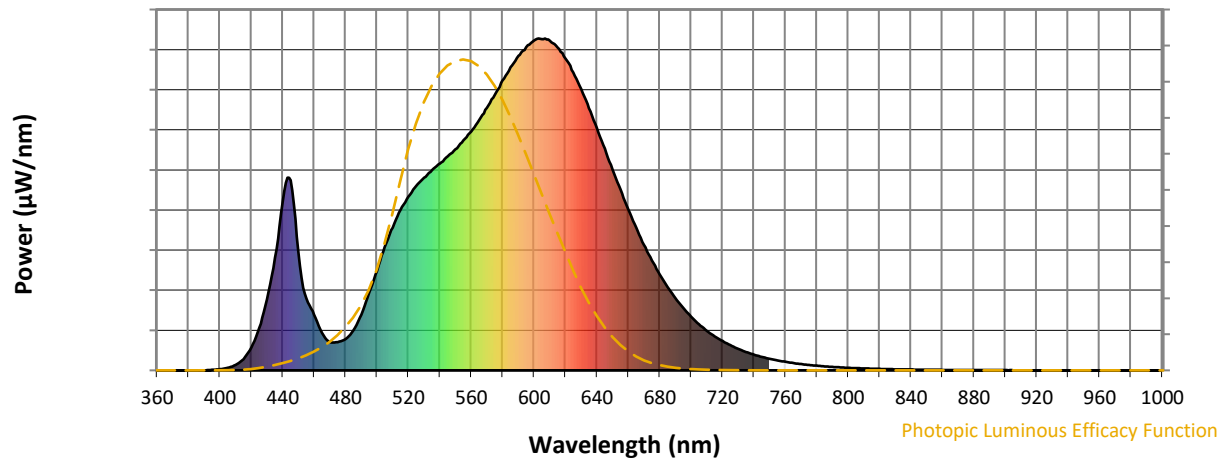


Point lies inside the ANSI 3000K 4-step quadrangle



REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**

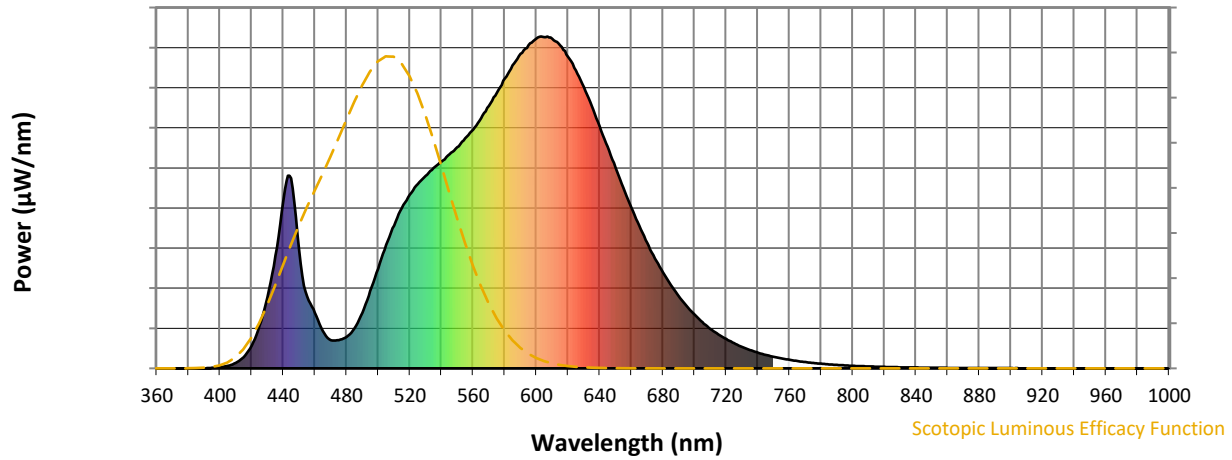


**Photopic Lumens: NR**

$\lambda$ (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**



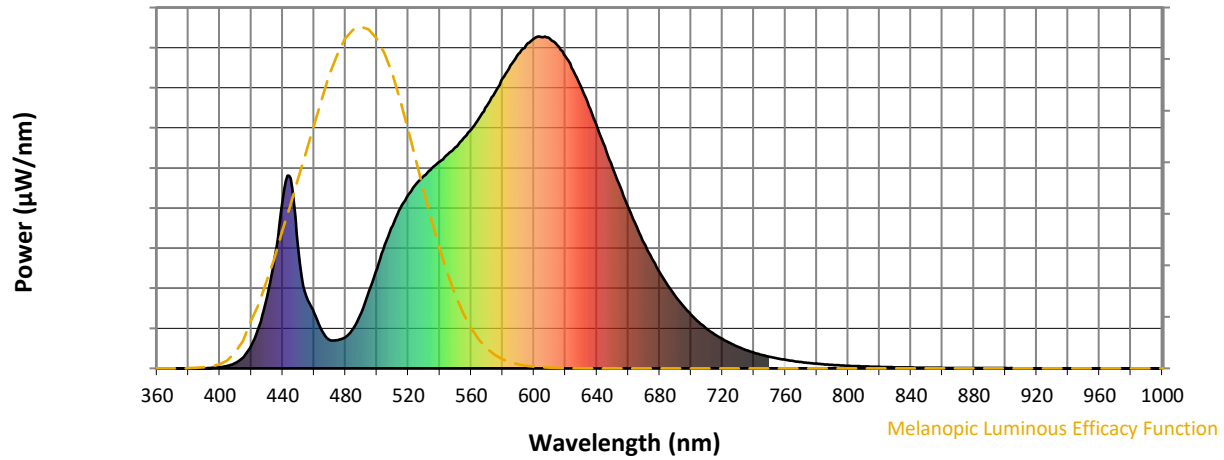
**Scotopic Lumens: NR**

**S/P: 1.27**

$\lambda$ (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

Melanopic Flux vs. Wavelength



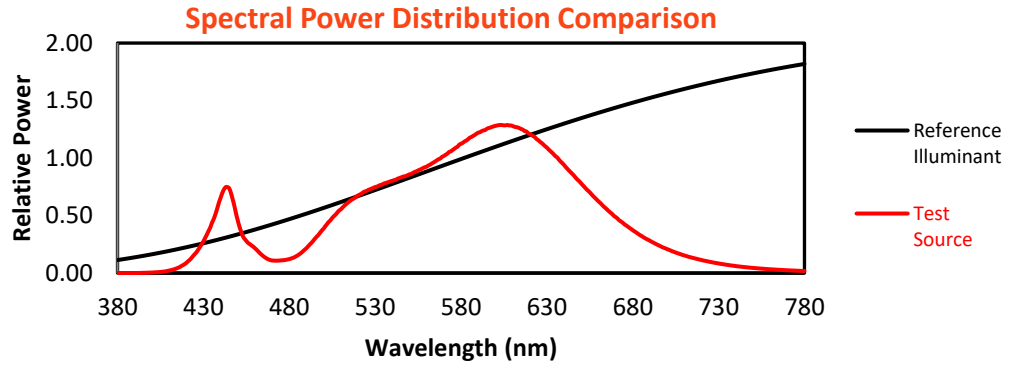
Melanopic Lumens: NR

M/P: 2.32

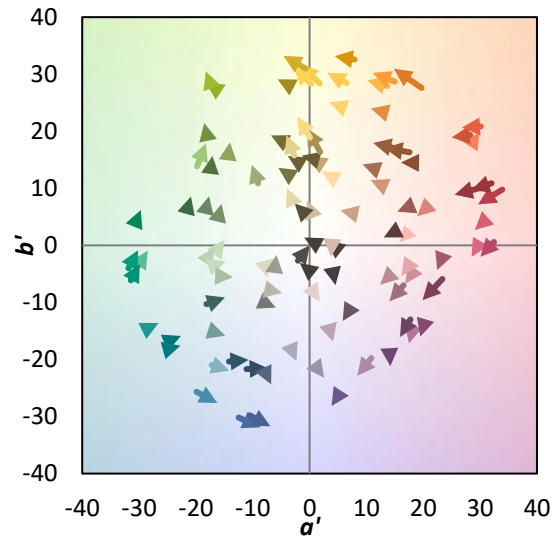
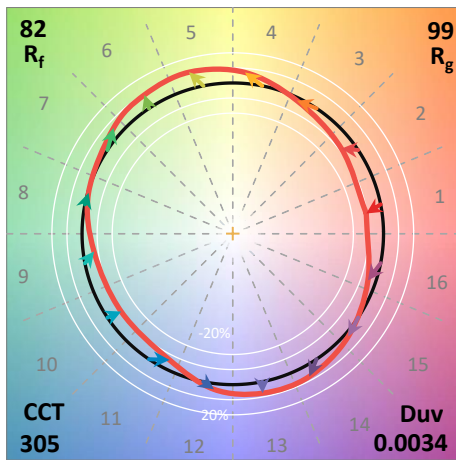
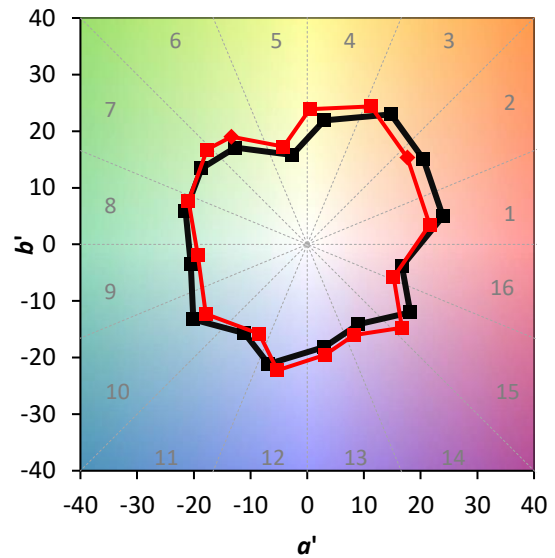
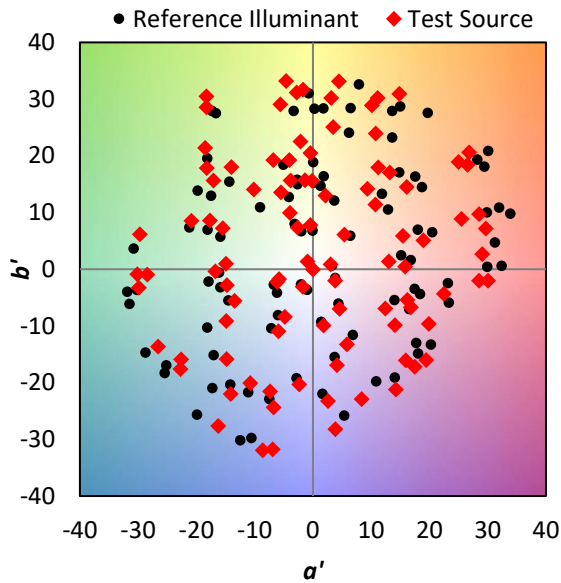
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625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

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

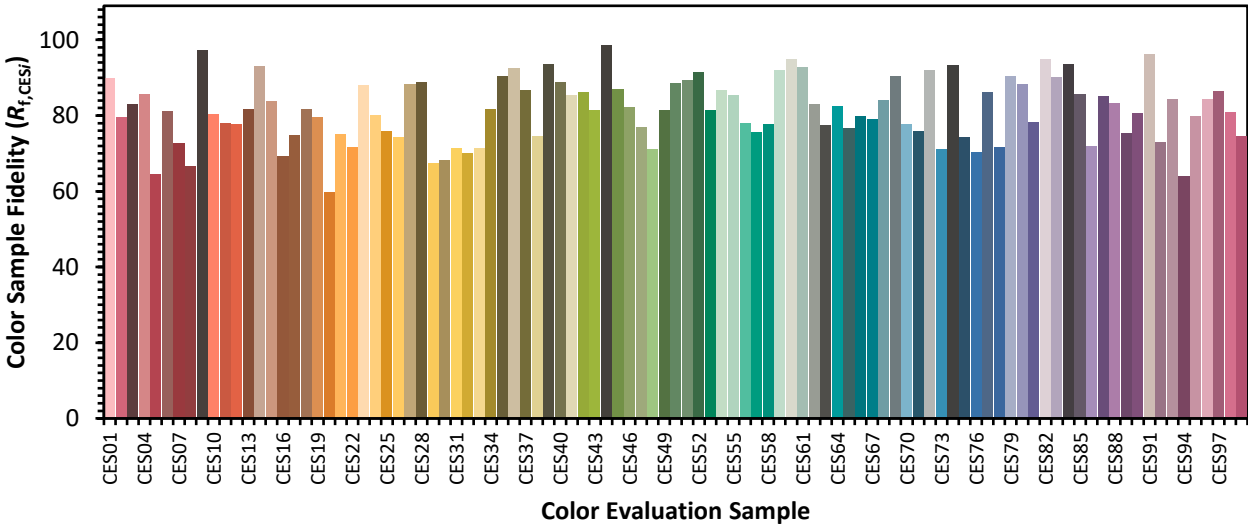


**Color Vector Graphics**

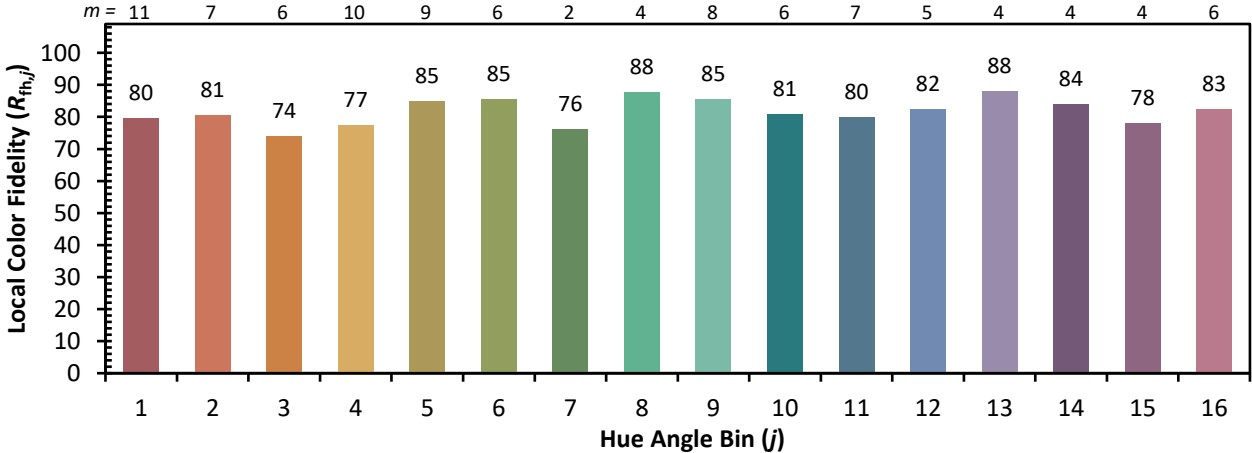
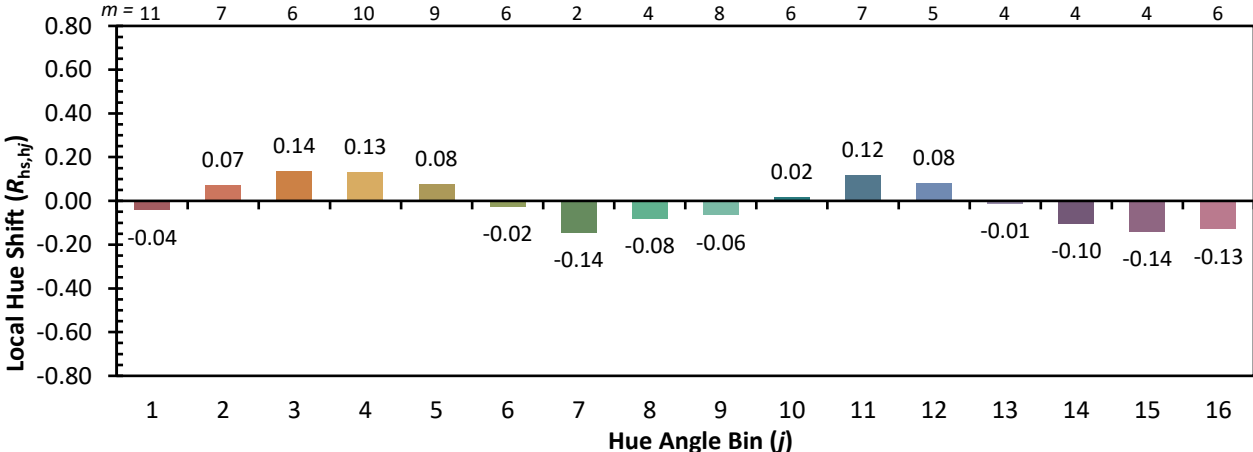
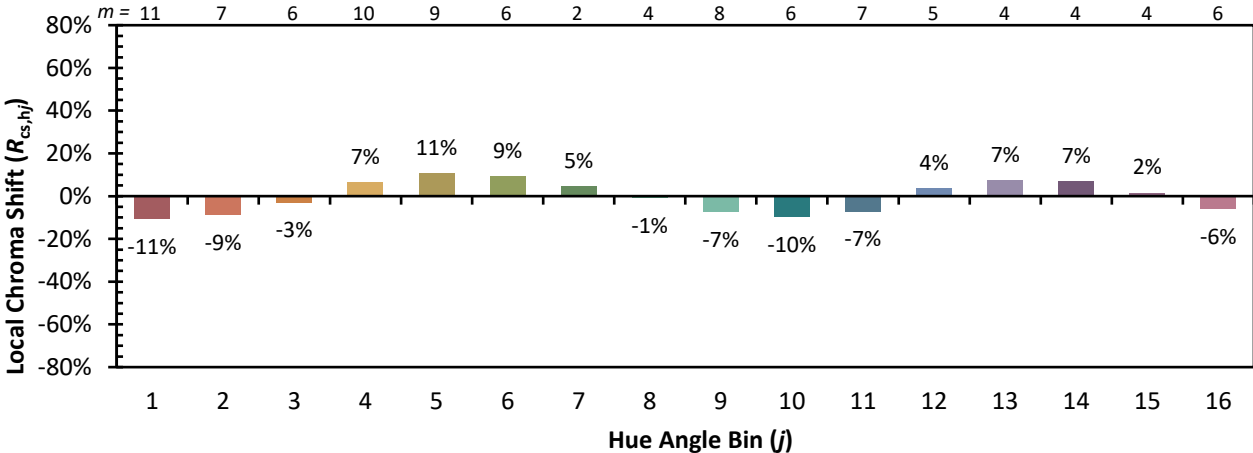


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

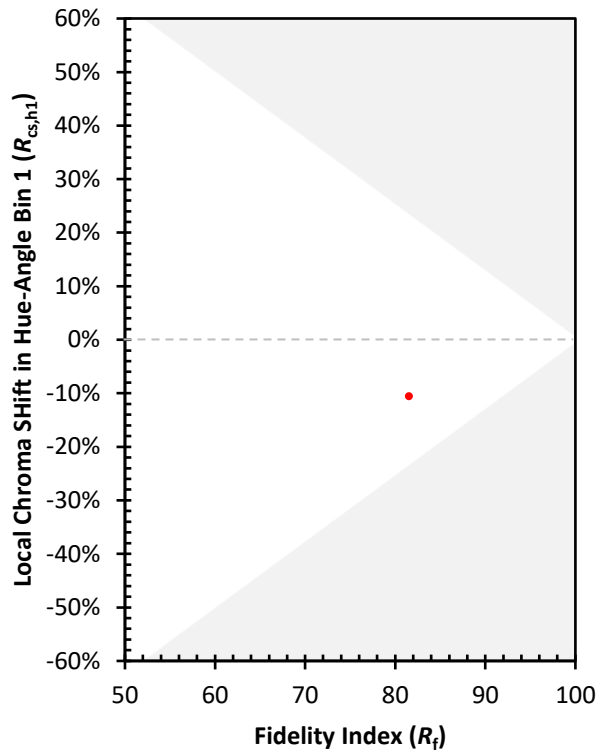
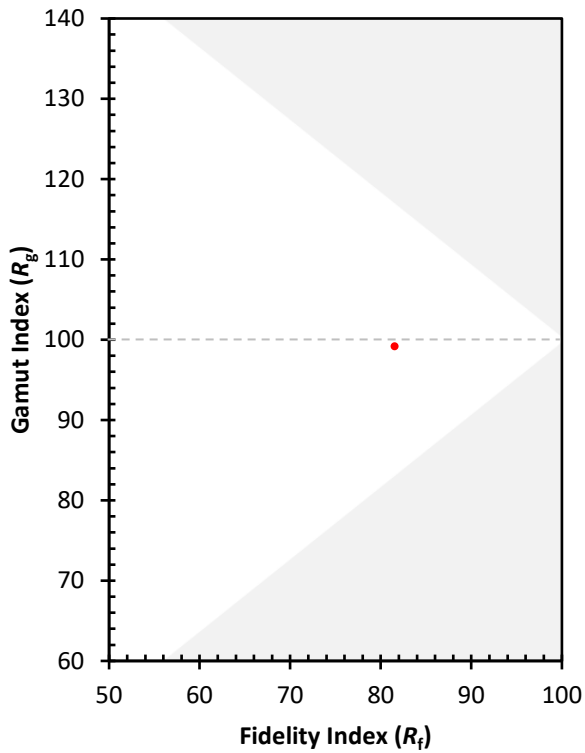
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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