

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: P320824

Luminaire Tested: **GLEON-SA0D-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320824
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-SA0D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53632 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

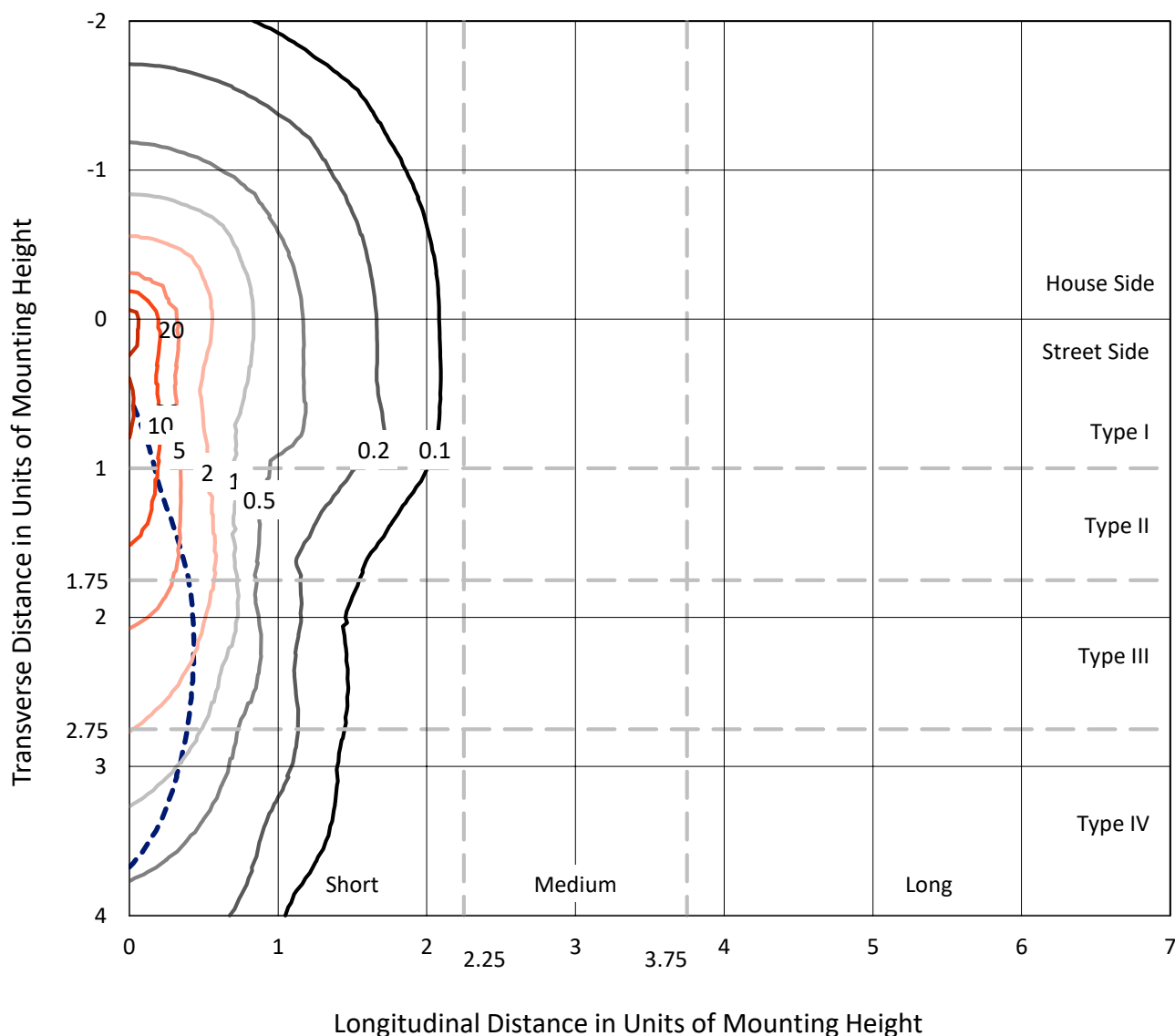


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

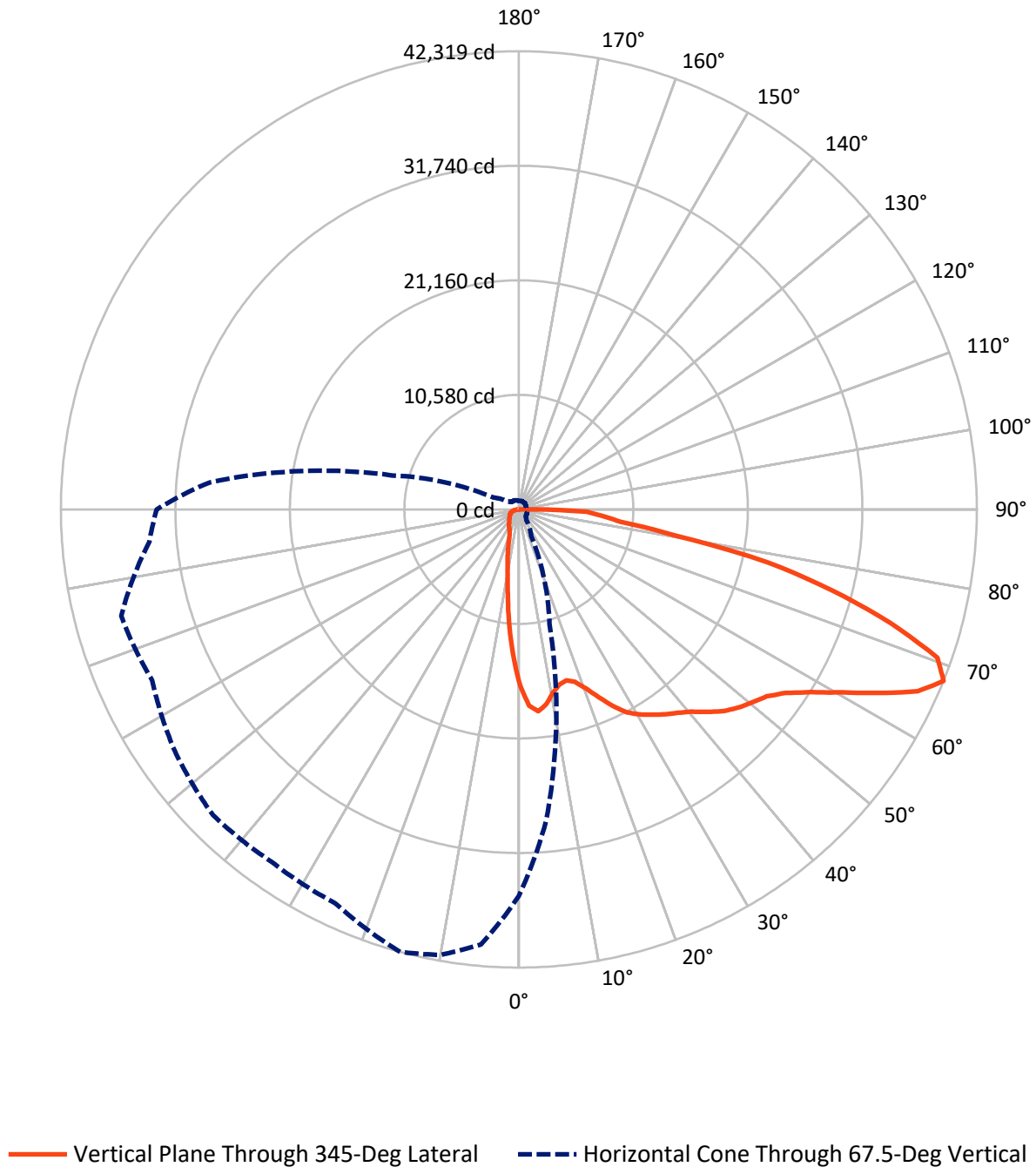
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9271.8	0.0	9271.8
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	44360.2	0.0	44360.2
	% Fixture	82.7	0.0	82.7
Total	Lumens	53632.0	0.0	53632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.0	2.4
10°-20°	2619.6	4.9
20°-30°	3725.7	6.9
30°-40°	5368.7	10.0
40°-50°	7566.1	14.1
50°-60°	10518.2	19.6
60°-70°	12719.6	23.7
70°-80°	7818.5	14.6
80°-90°	2034.4	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	53632.0	100.0
0°-180°	53632.0	100.0

Coefficient of Utilization



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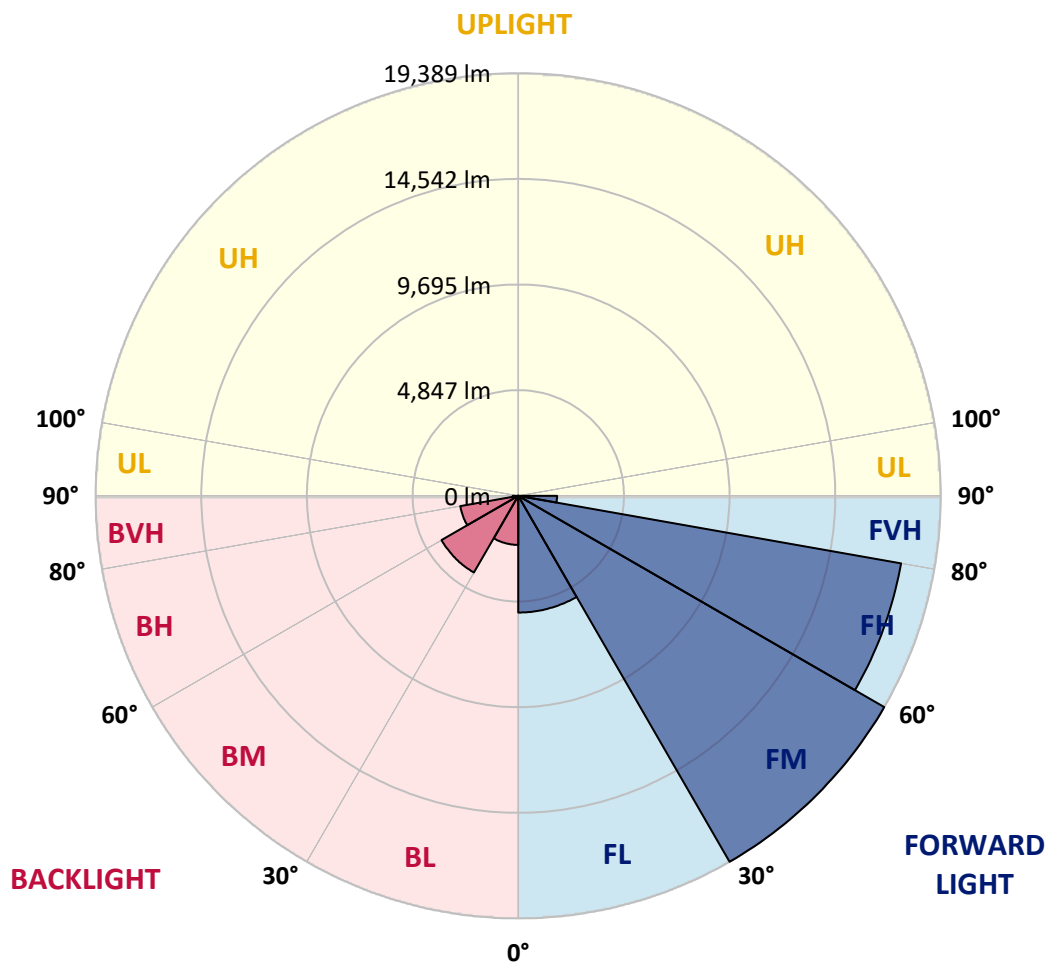
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5355.3	10.0			
FM	(30°-60°)	19389.3	36.2			
FH	(60°-80°)	17836.2	33.3			G5
FVH	(80°-90°)	1779.4	3.3			G5
BL	(0°-30°)	2251.1	4.2	B3/2500		
BM	(30°-60°)	4063.7	7.6	B3/5000		
BH	(60°-80°)	2702.0	5.0	B4/5000		G4/5000
BVH	(80°-90°)	255.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4
2.5°	17503.7	17349.3	17115.6	16881.9	16708.2	16532.3	16332.9	16133.5	15906.2	15676.8	15541.7
5°	17214.2	16785.4	16227.9	15670.3	15301.5	14932.7	14514.6	14096.5	13682.6	13268.8	13045.8
7.5°	15910.5	15267.2	14542.5	13817.7	13281.6	12743.4	12164.5	11583.4	11068.7	10552.0	10232.5
10°	14628.2	13856.3	13024.3	12190.2	11504.0	10817.9	10236.8	9653.5	9265.4	8877.3	8583.5
12.5°	13708.3	12852.8	11937.2	11019.4	10333.3	9647.1	9278.3	8909.5	8587.8	8266.2	7927.4
15°	13343.8	12376.7	11439.7	10500.5	9876.5	9252.5	8843.0	8431.3	8000.3	7567.1	7151.2
17.5°	13665.5	12533.3	11514.7	10496.2	9679.2	8862.3	8289.8	7715.1	7146.9	6578.6	6096.2
20°	14669.0	13223.7	11892.1	10558.4	9471.3	8384.1	7616.5	6846.7	6117.6	5388.6	4841.8
22.5°	16077.8	14165.1	12426.1	10687.1	9282.6	7875.9	6913.1	5948.2	5086.2	4224.2	3688.1
25°	17788.9	15413.0	13195.9	10976.5	9205.4	7432.1	6248.4	5064.8	4155.6	3244.3	2862.6
27.5°	19592.2	16901.2	14152.2	11401.1	9218.2	7035.4	5688.8	4340.0	3520.9	2701.8	2440.2
30°	21095.4	18601.6	15267.2	11930.7	9267.5	6604.4	5161.3	3718.2	3042.7	2367.3	2197.9
32.5°	22469.8	19787.4	16107.8	12426.1	9323.3	6218.4	4753.9	3287.2	2736.1	2182.9	2043.5
35°	23889.3	20840.2	16695.3	12548.3	9226.8	5903.2	4475.1	3047.0	2538.8	2028.5	1910.5
37.5°	25452.5	21978.8	17261.4	12541.9	9063.8	5585.8	4258.5	2929.1	2410.2	1889.1	1803.3
40°	27195.8	23237.5	17874.7	12511.8	8915.9	5317.8	4097.7	2875.5	2339.4	1801.2	1728.3
42.5°	28900.5	24438.3	18445.0	12451.8	8795.8	5137.7	3939.0	2740.4	2275.1	1807.6	1704.7
45°	30180.6	25486.8	18940.4	12391.8	8705.7	5019.7	3814.7	2609.6	2215.0	1820.5	1689.7
47.5°	31152.0	26539.7	19489.3	12436.8	8697.2	4957.6	3726.7	2495.9	2101.4	1704.7	1651.1
50°	32387.1	27804.8	20289.1	12773.4	8815.1	4856.8	3623.8	2388.7	1992.0	1595.3	1668.2
52.5°	33924.5	29610.3	21528.5	13444.6	9061.7	4678.8	3460.9	2242.9	1859.1	1473.1	1586.8
55°	36182.5	31923.9	23113.1	14300.2	9359.8	4417.2	3214.3	2009.2	1683.3	1355.2	1456.0
57.5°	38208.8	34261.2	24633.4	15003.5	9546.3	4087.0	2903.3	1719.7	1486.0	1252.3	1310.2
60°	39111.5	35466.3	25345.3	15222.2	9434.8	3647.4	2553.8	1458.1	1312.3	1166.5	1155.8
62.5°	38759.9	34700.8	24644.1	14587.5	8890.2	3192.8	2245.1	1297.3	1187.9	1076.4	1052.8
65°	37730.6	32294.9	22680.0	13065.1	7970.3	2875.5	2049.9	1224.4	1102.2	979.9	954.2
67.5°	35702.1	28870.5	19896.7	10922.9	6801.6	2680.3	1938.4	1196.5	1048.5	898.5	868.4
70°	32061.2	24749.2	16691.0	8630.7	5596.6	2560.3	1865.5	1170.8	990.7	808.4	780.5
72.5°	26333.8	19843.1	13328.8	6812.4	4678.8	2545.3	1856.9	1168.6	943.5	718.3	692.6
75°	18854.6	15072.1	10174.6	5274.9	3831.8	2388.7	1762.6	1136.5	879.2	619.7	596.1
77.5°	12687.7	10431.9	7071.8	3709.6	2843.3	1977.0	1481.7	986.4	752.6	518.9	495.3
80°	8148.2	7219.8	4738.8	2257.9	1844.1	1430.2	1059.3	688.3	548.9	407.4	388.1
82.5°	5978.2	5373.5	3293.6	1213.7	1025.0	834.1	647.6	461.0	375.2	289.5	280.9
85°	3799.7	4189.9	2425.2	660.4	540.4	420.3	347.4	274.5	216.6	158.7	158.7
87.5°	737.6	1020.7	671.2	319.5	233.7	148.0	126.5	102.9	57.9	10.7	12.9
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°	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4
2.5°	15404.5	15256.5	15108.5	14941.3	14771.9	14615.4	14456.7	14283.0	14315.2	14182.2	14049.3
5°	12822.8	12586.9	12348.9	12143.0	11937.2	11759.2	11579.1	11418.3	11557.6	11463.3	11368.9
7.5°	9910.8	9619.2	9325.4	9078.9	8832.3	8641.4	8448.4	8315.5	8452.7	8435.6	8418.4
10°	8289.8	8006.7	7721.5	7449.2	7176.9	6945.3	6711.6	6514.3	6480.0	6381.4	6280.6
12.5°	7586.4	7198.3	6808.1	6522.9	6237.7	5961.1	5684.5	5452.9	5347.8	5184.9	5019.7
15°	6735.2	6276.3	5817.4	5493.6	5167.7	4899.7	4629.5	4430.1	4363.6	4237.1	4110.6
17.5°	5613.7	5111.9	4610.2	4282.1	3951.9	3737.5	3520.9	3388.0	3388.0	3351.5	3315.0
20°	4295.0	3846.8	3398.7	3147.8	2896.9	2783.3	2667.5	2611.7	2628.9	2631.0	2631.0
22.5°	3149.9	2875.5	2601.0	2500.2	2397.3	2356.6	2315.8	2292.2	2300.8	2302.9	2305.1
25°	2480.9	2375.9	2268.6	2217.2	2163.6	2137.8	2112.1	2103.5	2122.8	2125.0	2125.0
27.5°	2178.6	2114.3	2047.8	2015.6	1981.3	1970.6	1959.9	1944.9	1964.2	1964.2	1962.0
30°	2026.3	1957.7	1889.1	1848.4	1807.6	1811.9	1814.1	1809.8	1822.6	1831.2	1837.6
32.5°	1902.0	1835.5	1769.0	1728.3	1685.4	1679.0	1672.5	1668.2	1696.1	1711.1	1726.1
35°	1790.5	1717.6	1644.7	1606.1	1567.5	1552.5	1537.4	1526.7	1552.5	1571.8	1591.1
37.5°	1715.4	1640.4	1563.2	1526.7	1488.1	1468.8	1449.5	1436.7	1447.4	1456.0	1464.5
40°	1655.4	1578.2	1498.8	1456.0	1413.1	1393.8	1374.5	1363.8	1370.2	1372.3	1374.5
42.5°	1599.6	1524.6	1449.5	1402.4	1353.0	1329.4	1305.9	1293.0	1297.3	1301.6	1303.7
45°	1558.9	1483.8	1406.6	1350.9	1293.0	1267.3	1241.5	1226.5	1228.7	1228.7	1228.7
47.5°	1597.5	1488.1	1376.6	1312.3	1245.8	1215.8	1185.8	1170.8	1166.5	1162.2	1157.9
50°	1739.0	1552.5	1363.8	1282.3	1198.6	1166.5	1132.2	1115.0	1104.3	1100.0	1095.7
52.5°	1698.3	1537.4	1374.5	1269.4	1162.2	1123.6	1085.0	1057.1	1046.4	1040.0	1033.5
55°	1554.6	1453.8	1350.9	1224.4	1097.9	1063.6	1027.1	1007.8	988.5	984.2	979.9
57.5°	1365.9	1325.2	1284.4	1155.8	1027.1	994.9	960.6	947.8	930.6	930.6	928.5
60°	1142.9	1202.9	1263.0	1115.0	964.9	928.5	892.0	881.3	874.9	872.7	870.6
62.5°	1027.1	1125.7	1222.2	1065.7	907.0	868.4	829.8	817.0	814.8	817.0	817.0
65°	928.5	958.5	988.5	915.6	842.7	804.1	763.4	750.5	754.8	761.2	767.6
67.5°	838.4	832.0	825.5	799.8	771.9	739.8	705.5	692.6	694.7	703.3	711.9
70°	752.6	744.1	733.3	714.0	694.7	666.9	639.0	630.4	628.3	639.0	647.6
72.5°	666.9	656.1	643.3	628.3	611.1	587.5	563.9	557.5	559.7	566.1	572.5
75°	572.5	563.9	553.2	540.4	525.3	503.9	482.5	478.2	482.5	488.9	495.3
77.5°	469.6	467.5	463.2	452.4	441.7	418.1	392.4	390.3	396.7	403.1	407.4
80°	366.7	368.8	371.0	362.4	353.8	328.1	300.2	298.1	304.5	310.9	317.4
82.5°	270.2	276.6	280.9	270.2	259.5	229.4	199.4	195.1	216.6	223.0	229.4
85°	156.5	165.1	173.7	165.1	156.5	126.5	96.5	94.3	113.6	124.4	135.1
87.5°	12.9	17.2	21.4	19.3	17.2	8.6	0.0	0.0	2.1	10.7	19.3
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: P320824
 CATALOG NUMBER: GLEON-SA0D-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: P320824

CATALOG NUMBER: GLEON-SA0D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4
2.5°	13965.7	13882.0	13856.3	13830.6	13736.2	13639.7	13738.4	13834.8	13875.6	13916.3	13811.3
5°	11356.1	11341.1	11341.1	11338.9	11253.1	11165.2	11231.7	11296.0	11152.4	11008.7	10993.7
7.5°	8510.6	8602.8	8677.9	8750.8	8722.9	8695.0	8757.2	8819.4	8637.1	8452.7	8362.7
10°	6302.0	6321.3	6402.8	6484.3	6503.6	6520.7	6597.9	6673.0	6531.5	6389.9	6327.7
12.5°	4916.8	4813.9	4824.6	4833.2	4871.8	4908.2	4989.7	5069.1	5011.2	4951.1	4957.6
15°	3981.9	3851.1	3797.5	3741.8	3784.6	3827.5	3885.4	3941.2	3943.3	3943.3	3999.1
17.5°	3250.7	3184.2	3130.6	3074.9	3132.8	3188.5	3195.0	3201.4	3203.5	3205.7	3201.4
20°	2663.2	2695.4	2678.2	2661.0	2682.5	2701.8	2718.9	2733.9	2714.6	2693.2	2639.6
22.5°	2335.1	2363.0	2384.4	2403.7	2440.2	2474.5	2457.3	2438.0	2399.4	2358.7	2318.0
25°	2144.3	2163.6	2185.0	2206.5	2236.5	2264.4	2234.3	2204.3	2176.4	2148.6	2120.7
27.5°	1983.5	2002.8	2022.0	2039.2	2067.1	2092.8	2064.9	2037.1	2013.5	1989.9	1968.4
30°	1852.7	1865.5	1880.5	1895.5	1921.3	1944.9	1921.3	1895.5	1878.4	1859.1	1844.1
32.5°	1741.1	1754.0	1760.4	1766.9	1790.5	1814.1	1796.9	1779.7	1764.7	1749.7	1739.0
35°	1618.9	1644.7	1648.9	1653.2	1676.8	1700.4	1689.7	1676.8	1659.7	1642.5	1623.2
37.5°	1494.6	1524.6	1541.7	1556.7	1580.3	1603.9	1593.2	1582.5	1558.9	1535.3	1501.0
40°	1389.5	1402.4	1434.5	1464.5	1503.1	1539.6	1518.1	1494.6	1458.1	1421.7	1404.5
42.5°	1301.6	1299.4	1329.4	1359.5	1417.4	1473.1	1434.5	1395.9	1361.6	1327.3	1323.0
45°	1224.4	1217.9	1233.0	1248.0	1310.2	1370.2	1331.6	1290.9	1271.6	1252.3	1252.3
47.5°	1155.8	1151.5	1162.2	1170.8	1209.4	1245.8	1226.5	1207.2	1196.5	1185.8	1187.9
50°	1093.6	1089.3	1100.0	1108.6	1123.6	1136.5	1140.8	1142.9	1136.5	1130.0	1134.3
52.5°	1035.7	1035.7	1040.0	1042.1	1061.4	1080.7	1080.7	1078.6	1078.6	1078.6	1082.9
55°	986.4	990.7	990.7	990.7	1020.7	1048.5	1040.0	1031.4	1033.5	1033.5	1037.8
57.5°	937.0	943.5	947.8	952.1	982.1	1012.1	1003.5	994.9	994.9	994.9	997.1
60°	881.3	889.9	898.5	907.0	937.0	967.1	958.5	947.8	949.9	952.1	954.2
62.5°	827.7	836.3	844.8	853.4	883.4	913.5	904.9	894.2	900.6	904.9	904.9
65°	776.2	782.7	791.2	799.8	827.7	855.6	847.0	838.4	847.0	853.4	857.7
67.5°	718.3	722.6	731.2	739.8	767.6	795.5	786.9	776.2	786.9	795.5	804.1
70°	651.9	656.1	666.9	675.4	703.3	731.2	720.5	709.8	720.5	731.2	739.8
72.5°	579.0	583.2	594.0	602.5	634.7	666.9	654.0	641.1	654.0	666.9	671.2
75°	499.6	503.9	516.8	527.5	559.7	591.8	581.1	568.2	579.0	589.7	591.8
77.5°	413.8	420.3	437.4	454.6	480.3	506.0	499.6	493.2	499.6	506.0	506.0
80°	323.8	330.2	351.7	371.0	386.0	401.0	403.1	405.3	407.4	409.6	407.4
82.5°	240.2	248.7	268.0	287.3	287.3	287.3	304.5	319.5	319.5	317.4	315.2
85°	148.0	158.7	175.8	193.0	182.3	171.5	199.4	225.1	225.1	223.0	218.7
87.5°	30.0	40.7	57.9	72.9	62.2	51.5	79.3	107.2	109.4	109.4	105.1
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: P320824
 CATALOG NUMBER: GLEON-SA0D-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: P320824

CATALOG NUMBER: GLEON-SA0D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4
2.5°	13704.0	13871.3	14036.4	14079.3	14143.6	14171.5	14197.2	14407.4	14615.4	14859.8	15104.3
5°	10976.5	11100.9	11225.3	11244.6	11311.0	11345.3	11379.7	11634.8	11887.8	12228.8	12569.7
7.5°	8272.6	8302.6	8332.6	8328.4	8384.1	8459.2	8532.1	8804.4	9074.6	9441.2	9805.8
10°	6265.6	6334.2	6400.7	6462.8	6585.1	6726.6	6866.0	7144.7	7423.5	7785.9	8146.1
12.5°	4964.0	5043.3	5120.5	5189.1	5330.7	5519.4	5705.9	6040.4	6374.9	6808.1	7239.1
15°	4052.7	4046.2	4039.8	4087.0	4211.4	4417.2	4620.9	4974.7	5328.5	5804.5	6278.4
17.5°	3197.1	3164.9	3132.8	3169.2	3285.0	3454.4	3621.7	3921.9	4219.9	4680.9	5142.0
20°	2586.0	2564.6	2543.1	2577.4	2650.3	2721.1	2791.8	3008.4	3222.8	3598.1	3971.2
22.5°	2275.1	2272.9	2268.6	2287.9	2322.2	2358.7	2393.0	2498.1	2601.0	2843.3	3083.5
25°	2092.8	2090.7	2088.5	2097.1	2125.0	2152.9	2180.7	2249.3	2318.0	2433.7	2549.5
27.5°	1947.0	1942.7	1938.4	1940.6	1947.0	1989.9	2030.6	2062.8	2092.8	2172.1	2249.3
30°	1829.1	1826.9	1824.8	1824.8	1818.3	1833.4	1848.4	1897.7	1944.9	2026.3	2107.8
32.5°	1728.3	1717.6	1706.8	1683.3	1668.2	1689.7	1711.1	1762.6	1814.1	1889.1	1964.2
35°	1601.8	1573.9	1543.9	1531.0	1533.2	1554.6	1576.0	1627.5	1676.8	1758.3	1837.6
37.5°	1464.5	1456.0	1445.2	1443.1	1449.5	1471.0	1492.4	1537.4	1580.3	1661.8	1741.1
40°	1387.3	1383.1	1378.8	1374.5	1378.8	1400.2	1421.7	1464.5	1505.3	1584.6	1661.8
42.5°	1318.7	1316.6	1314.4	1314.4	1316.6	1340.2	1363.8	1406.6	1447.4	1518.1	1588.9
45°	1252.3	1254.4	1254.4	1258.7	1265.1	1288.7	1310.2	1357.3	1404.5	1473.1	1541.7
47.5°	1190.1	1196.5	1200.8	1211.5	1217.9	1243.7	1267.3	1318.7	1370.2	1456.0	1539.6
50°	1136.5	1142.9	1147.2	1155.8	1172.9	1202.9	1233.0	1295.1	1355.2	1498.8	1640.4
52.5°	1087.1	1093.6	1100.0	1108.6	1130.0	1164.3	1198.6	1275.8	1350.9	1518.1	1685.4
55°	1042.1	1048.5	1052.8	1065.7	1087.1	1117.2	1145.0	1239.4	1333.7	1456.0	1578.2
57.5°	999.2	1005.7	1010.0	1018.5	1029.3	1061.4	1091.4	1192.2	1293.0	1378.8	1462.4
60°	954.2	958.5	960.6	960.6	969.2	1005.7	1042.1	1170.8	1297.3	1282.3	1265.1
62.5°	904.9	909.2	911.3	904.9	915.6	954.2	992.8	1160.1	1327.3	1224.4	1121.5
65°	859.9	857.7	855.6	849.1	862.0	900.6	937.0	1020.7	1104.3	1063.6	1022.8
67.5°	810.5	804.1	797.7	789.1	802.0	836.3	868.4	896.3	924.2	928.5	932.8
70°	748.4	739.8	731.2	729.1	735.5	763.4	791.2	810.5	827.7	836.3	842.7
72.5°	675.4	669.0	662.6	658.3	660.4	684.0	705.5	722.6	739.8	746.2	750.5
75°	594.0	594.0	591.8	579.0	579.0	598.3	615.4	630.4	645.4	654.0	662.6
77.5°	506.0	508.2	508.2	491.0	488.9	508.2	525.3	538.2	548.9	557.5	563.9
80°	405.3	401.0	396.7	386.0	381.7	405.3	426.7	437.4	446.0	448.2	448.2
82.5°	310.9	302.3	291.6	268.0	270.2	295.9	319.5	328.1	336.7	336.7	336.7
85°	212.3	195.1	175.8	156.5	158.7	186.6	212.3	220.9	229.4	233.7	235.9
87.5°	100.8	83.6	64.3	49.3	49.3	72.9	94.3	98.6	102.9	111.5	120.1
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: P320824
 CATALOG NUMBER: GLEON-SA0D-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: P320824

CATALOG NUMBER: GLEON-SA0D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4
2.5°	15290.8	15475.2	15666.1	15856.9	16075.6	16294.3	16549.5	16802.5	17019.1	17235.7	17415.8
5°	12863.5	13157.3	13502.5	13847.7	14287.3	14726.9	15265.1	15801.1	16279.3	16757.5	17312.9
7.5°	10189.6	10571.3	11021.6	11471.9	12040.1	12608.3	13305.2	14002.1	14677.5	15350.9	16204.3
10°	8547.1	8948.1	9391.9	9833.6	10412.6	10989.4	11727.0	12462.5	13221.6	13978.5	14943.4
12.5°	7685.1	8128.9	8519.2	8909.5	9379.1	9846.5	10560.5	11274.6	12166.6	13056.5	13984.9
15°	6765.2	7249.8	7717.2	8184.7	8697.2	9207.5	9902.3	10597.0	11572.6	12548.3	13616.1
17.5°	5652.3	6162.6	6733.0	7301.2	7970.3	8637.1	9527.0	10416.9	11572.6	12726.3	13984.9
20°	4492.3	5013.3	5695.2	6377.1	7209.0	8038.9	9192.5	10346.1	11902.9	13457.5	15063.5
22.5°	3544.5	4003.4	4747.4	5489.3	6450.0	7410.6	8890.2	10367.6	12402.5	14435.2	16603.1
25°	2873.3	3197.1	3928.3	4657.4	5766.0	6874.5	8705.7	10534.8	13129.4	15721.8	18410.7
27.5°	2461.6	2673.9	3355.8	4035.5	5247.0	6456.4	8630.7	10802.8	14051.4	17300.0	20377.0
30°	2255.8	2403.7	2980.5	3555.2	4786.0	6016.8	8540.6	11064.4	14939.2	18811.7	21914.5
32.5°	2084.2	2202.2	2695.4	3186.4	4387.2	5588.0	8367.0	11143.8	15558.8	19973.9	23216.0
35°	1938.4	2037.1	2465.9	2894.8	4074.1	5253.5	8075.3	10897.2	15947.0	20996.7	24571.2
37.5°	1820.5	1897.7	2294.4	2691.1	3803.9	4916.8	7743.0	10569.1	16292.2	22015.3	26095.8
40°	1728.3	1794.8	2165.7	2536.7	3546.6	4556.6	7457.8	10356.8	16768.2	23179.6	27706.2
42.5°	1676.8	1762.6	2054.2	2343.7	3302.2	4260.7	7228.3	10196.0	17209.9	24221.7	29114.9
45°	1664.0	1786.2	1996.3	2206.5	3119.9	4033.4	7024.6	10013.8	17495.1	24976.5	30176.4
47.5°	1642.5	1743.3	1951.3	2159.3	3029.9	3898.3	6915.3	9930.1	17780.3	25628.4	31057.7
50°	1655.4	1668.2	1914.8	2159.3	3017.0	3874.7	7039.6	10204.6	18397.9	26589.0	32065.5
52.5°	1631.8	1576.0	1846.2	2116.4	3014.8	3913.3	7397.7	10882.2	19545.0	28205.8	33156.9
55°	1507.4	1434.5	1717.6	2000.6	2969.8	3936.9	7824.5	11709.9	21084.6	30457.3	35118.9
57.5°	1398.1	1331.6	1571.8	1809.8	2832.6	3855.4	8264.0	12670.5	22712.1	32751.6	37329.6
60°	1252.3	1237.2	1408.8	1580.3	2620.3	3658.1	8626.4	13592.5	23805.7	34016.7	38180.9
62.5°	1132.2	1140.8	1267.3	1393.8	2354.4	3312.9	8746.5	14177.9	23775.7	33373.5	37323.2
65°	1040.0	1055.0	1179.4	1303.7	2127.1	2950.5	8351.9	13751.2	22572.8	31392.2	35627.1
67.5°	949.9	967.1	1115.0	1260.8	1925.6	2588.1	7365.6	12140.9	20409.2	28675.4	33470.0
70°	864.1	885.6	1046.4	1207.2	1779.7	2350.1	6094.0	9837.9	17701.0	25561.9	30971.9
72.5°	771.9	793.4	964.9	1136.5	1687.5	2236.5	4968.3	7697.9	14364.5	21028.9	26492.5
75°	677.6	692.6	879.2	1063.6	1561.0	2058.5	3898.3	5735.9	10993.7	16251.4	20010.4
77.5°	583.2	602.5	759.1	913.5	1325.2	1734.7	2937.7	4140.6	8066.8	11990.8	13916.3
80°	465.3	482.5	594.0	703.3	1022.8	1340.2	2019.9	2699.6	5551.5	8403.4	9488.4
82.5°	355.9	375.2	450.3	523.2	729.1	934.9	1224.4	1513.9	3688.1	5860.3	5950.4
85°	244.4	250.9	304.5	355.9	450.3	544.6	701.2	857.7	2440.2	4022.7	3351.5
87.5°	122.2	122.2	158.7	195.1	242.3	289.5	371.0	450.3	780.5	1110.7	639.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320824
 CATALOG NUMBER: GLEON-SA0D-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: P320824

CATALOG NUMBER: GLEON-SA0D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4
2.5°	17645.2	17801.8	17960.4	18080.5	18202.7	18378.6	18554.4	18586.6	18620.9	18552.3	18483.6
5°	17872.5	18346.4	18822.4	19262.0	19701.6	19965.3	20229.1	20282.7	20336.3	20171.2	20003.9
7.5°	17029.8	17855.4	18680.9	19437.8	20194.8	20653.6	21114.7	21217.6	21322.7	21052.5	20782.3
10°	15904.1	16918.3	17932.6	18929.6	19926.7	20593.6	21260.5	21393.4	21526.4	21189.7	20853.1
12.5°	15033.5	16116.4	17199.2	18249.9	19302.7	19993.2	20683.7	20848.8	21013.9	20769.4	20522.8
15°	14765.5	15784.0	16802.5	17718.1	18635.9	19199.8	19765.9	19832.4	19901.0	19862.4	19823.8
17.5°	15252.2	16172.1	17094.1	17591.6	18091.2	18316.4	18543.7	18616.6	18691.6	18788.1	18886.8
20°	16431.6	17079.1	17728.8	17707.4	17683.8	17574.5	17463.0	17443.7	17424.4	17701.0	17979.7
22.5°	18192.0	18449.3	18708.8	18106.2	17503.7	17137.0	16768.2	16695.3	16620.3	16914.0	17209.9
25°	20102.6	20055.4	20006.1	18858.9	17709.6	17010.5	16311.5	16230.0	16148.5	16399.4	16652.4
27.5°	21993.8	21685.0	21376.3	19817.4	18258.5	17244.2	16230.0	16148.5	16067.0	16290.0	16513.0
30°	23381.2	22885.8	22390.5	20625.8	18861.0	17655.9	16450.9	16317.9	16182.8	16457.3	16731.8
32.5°	24464.0	23799.3	23134.6	21281.9	19429.3	18125.5	16821.8	16613.8	16405.8	16772.5	17139.2
35°	25544.7	24609.8	23672.8	21867.3	20059.7	18680.9	17300.0	17044.8	16789.7	17293.6	17797.5
37.5°	26904.2	25561.9	24217.4	22525.6	20833.8	19512.9	18189.9	17928.3	17666.7	18307.8	18951.1
40°	28379.5	26589.0	24798.5	23246.1	21693.6	20664.4	19633.0	19384.2	19133.3	19913.9	20694.4
42.5°	29606.0	27545.3	25484.7	24114.5	22742.2	22017.4	21290.5	21288.3	21284.1	22075.3	22866.5
45°	30603.1	28343.0	26080.8	24961.5	23840.0	23462.6	23085.2	23387.6	23689.9	24404.0	25120.2
47.5°	31347.1	29012.0	26674.8	25930.7	25186.6	25242.4	25298.1	25913.5	26528.9	26987.8	27448.8
50°	31831.7	29618.8	27403.8	27174.4	26944.9	27444.6	27946.3	28651.8	29359.4	29672.4	29985.5
52.5°	32537.2	30442.2	28345.1	28602.5	28859.8	29880.4	30901.1	31615.2	32329.2	32445.0	32562.9
55°	34169.0	31956.1	29741.1	30234.2	30729.6	32226.3	33725.1	34282.6	34840.1	34883.0	34925.9
57.5°	36486.9	34076.8	31666.6	32198.4	32730.2	34458.5	36188.9	36789.3	37391.8	37308.2	37222.4
60°	38221.7	36090.3	33956.7	34492.8	35028.8	36714.2	38399.6	39090.1	39782.7	39598.3	39413.9
62.5°	38328.9	37190.3	36049.5	36534.1	37020.9	38672.0	40323.1	41032.8	41742.6	41420.9	41099.3
65°	36624.2	37134.5	37644.9	37805.7	37966.5	39506.1	41047.8	41590.3	42135.0	41972.0	41809.0
67.5°	34276.2	36156.7	38039.4	37715.6	37391.8	38114.5	38837.1	39396.7	39956.4	39864.2	39769.8
70°	31932.5	34443.5	36954.4	35363.4	33770.2	33472.1	33174.0	33776.6	34381.3	34008.2	33632.9
72.5°	27942.0	30618.1	33296.3	30365.1	27433.8	26415.3	25396.8	26162.3	26927.8	26333.8	25737.7
75°	21933.8	24890.7	27849.8	24352.5	20855.2	19495.7	18136.3	18794.6	19452.8	19045.4	18635.9
77.5°	16328.6	19242.7	22156.8	18601.6	15044.2	14034.3	13022.2	13217.3	13414.6	13346.0	13275.2
80°	11075.2	13105.8	15138.6	12771.3	10404.0	10481.2	10560.5	10468.3	10374.0	10511.2	10648.5
82.5°	7067.5	8635.0	10204.6	8948.1	7691.5	8412.0	9132.5	8778.7	8422.7	8553.5	8686.4
85°	4033.4	5566.5	7101.8	6619.4	6134.8	6555.0	6977.5	6428.5	5879.6	6119.8	6362.1
87.5°	1063.6	3079.2	5096.9	4627.3	4157.7	3613.1	3068.5	2341.5	1614.6	2358.7	3102.8
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: P320824
 CATALOG NUMBER: GLEON-SA0D-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: P320824

CATALOG NUMBER: GLEON-SA0D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4	16339.4
2.5°	18447.2	18410.7	18279.9	18147.0	17949.7	17786.7	17503.7
5°	19772.3	19540.8	19141.9	18740.9	18294.9	17782.5	17214.2
7.5°	20241.9	19699.4	18933.9	18166.3	17475.8	16665.3	15910.5
10°	20042.5	19229.8	18234.9	17237.8	16399.4	15466.6	14628.2
12.5°	19660.8	18796.7	17701.0	16603.1	15648.9	14647.5	13708.3
15°	19135.5	18445.0	17417.9	16390.8	15430.2	14456.7	13343.8
17.5°	18560.8	18232.8	17490.8	16746.8	15914.8	14971.3	13665.5
20°	18097.7	18217.7	17921.8	17625.9	16959.1	16135.7	14669.0
22.5°	17784.6	18361.4	18588.7	18818.1	18417.2	17773.9	16077.8
25°	17608.8	18565.1	19326.3	20089.7	19911.7	19416.4	17788.9
27.5°	17686.0	18858.9	20040.4	21224.0	21389.1	21251.9	19592.2
30°	17917.5	19105.5	20544.3	21985.2	22643.5	22827.9	21095.4
32.5°	18303.5	19467.9	21035.3	22604.9	23599.9	24187.4	22469.8
35°	18886.8	19976.0	21610.0	23243.9	24530.5	25602.6	23889.3
37.5°	19888.1	20825.2	22332.6	23842.2	25510.4	27120.8	25452.5
40°	21354.8	22017.4	23291.1	24566.9	26666.2	28840.5	27195.8
42.5°	23205.3	23546.3	24556.2	25566.2	27873.4	30401.5	28900.5
45°	25210.2	25300.3	25935.0	26571.8	28829.8	31465.1	30180.6
47.5°	27140.1	26831.3	27084.3	27337.3	29563.1	32224.1	31152.0
50°	29125.7	28265.8	28132.9	27999.9	30296.4	33118.3	32387.1
52.5°	31145.6	29728.2	29202.9	28675.4	31171.3	34304.1	33924.5
55°	33122.6	31319.3	30611.6	29904.0	32509.3	35751.5	36182.5
57.5°	35178.9	33135.5	32479.3	31823.2	34475.6	37584.8	38208.8
60°	37391.8	35367.6	34842.3	34314.8	36920.1	39566.1	39111.5
62.5°	39491.1	37882.9	37606.3	37327.5	39392.4	41088.6	38759.9
65°	40893.4	39975.7	40233.0	40492.5	41262.2	41468.1	37730.6
67.5°	39956.4	40142.9	41230.1	42319.4	41789.7	40340.2	35702.1
70°	34750.1	35869.4	38444.7	41022.1	39847.0	37318.9	32061.2
72.5°	26994.3	28252.9	32076.2	35901.6	34818.7	31722.4	26333.8
75°	20055.4	21477.0	25697.0	29916.9	28413.8	23728.5	18854.6
77.5°	14227.3	15179.3	19345.6	23514.1	21063.2	15794.7	12687.7
80°	10356.8	10065.2	12387.5	14709.7	14302.3	10446.9	8148.2
82.5°	7974.6	7262.7	8356.2	9449.8	9389.8	7249.8	5978.2
85°	6076.9	5791.7	6758.7	7725.8	6898.1	4910.4	3799.7
87.5°	3542.3	3984.1	5122.7	6263.4	4700.2	1490.3	737.6
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: P320824
 CATALOG NUMBER: GLEON-SA0D-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

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.

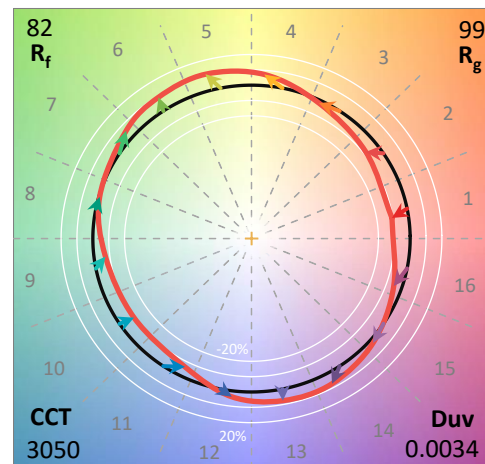
Test Information

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
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

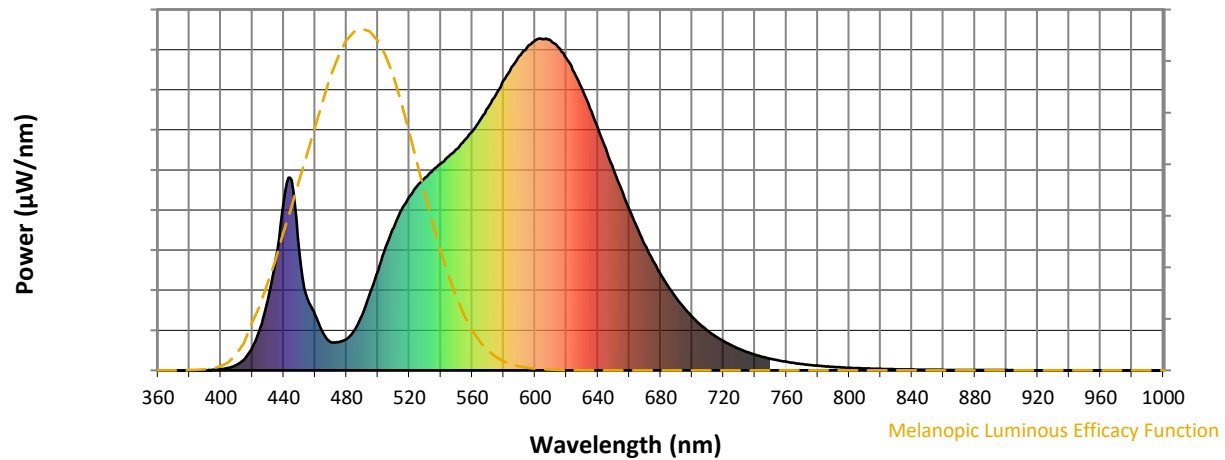


Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.32

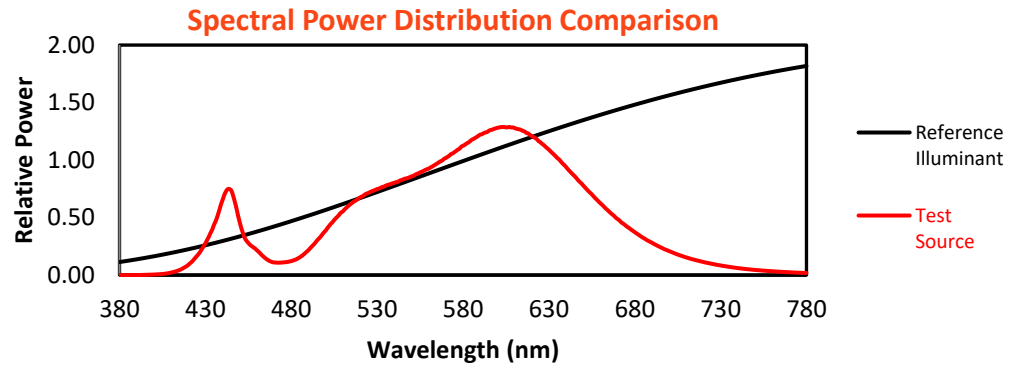
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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			

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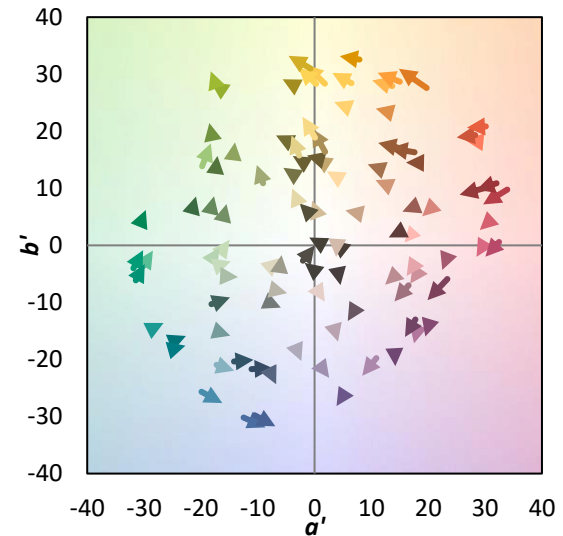
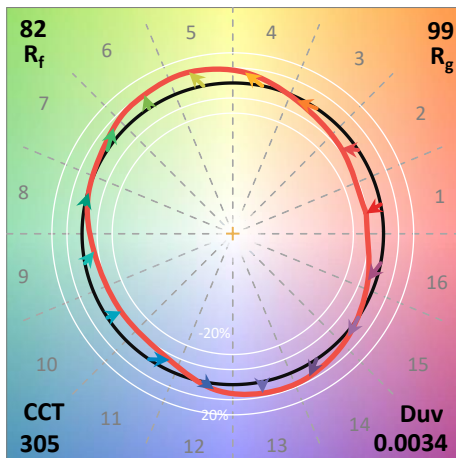
TM-30-18

Summary

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

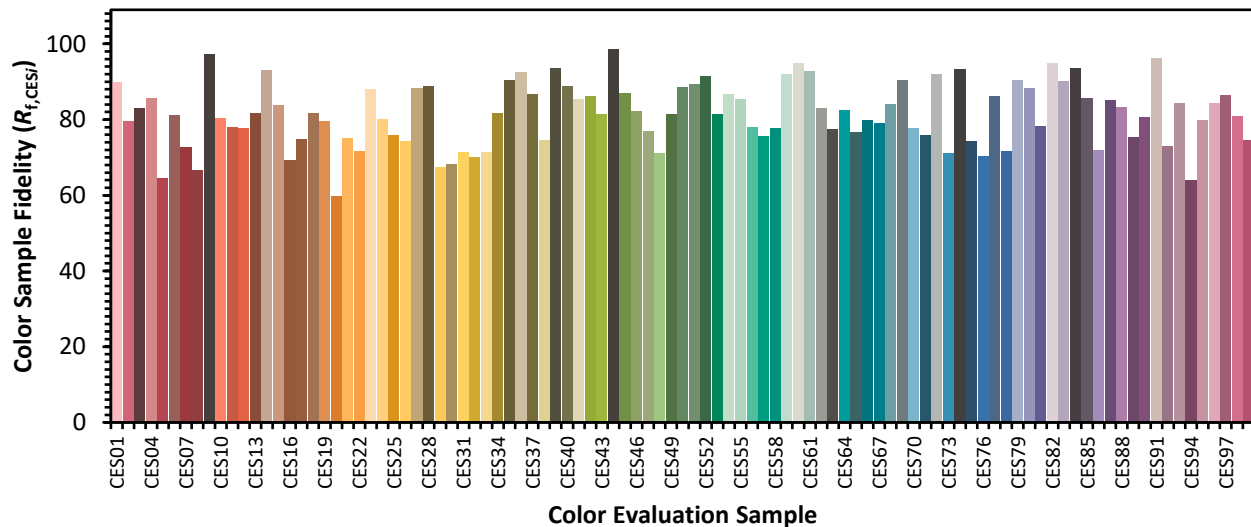


Color Vector Graphics

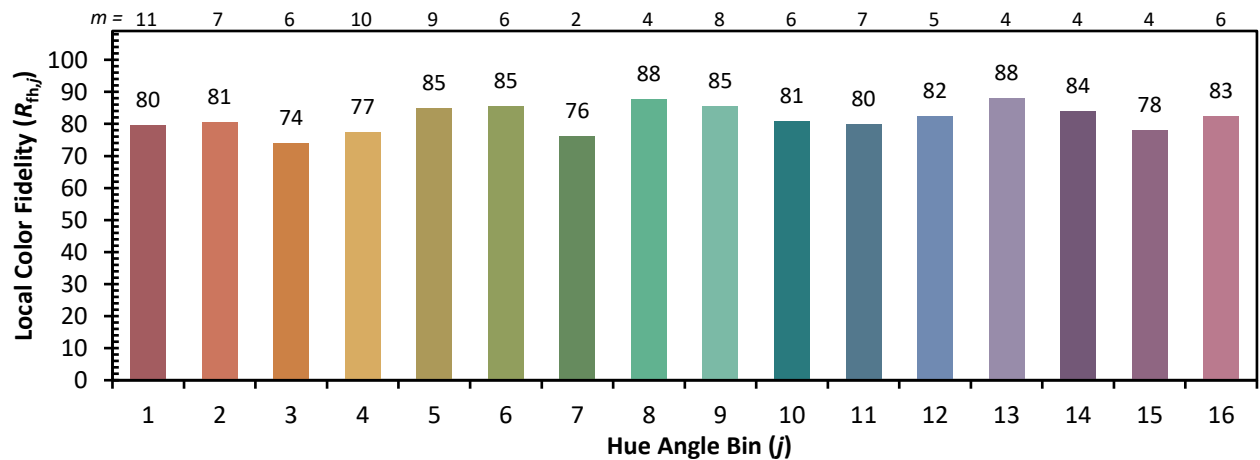
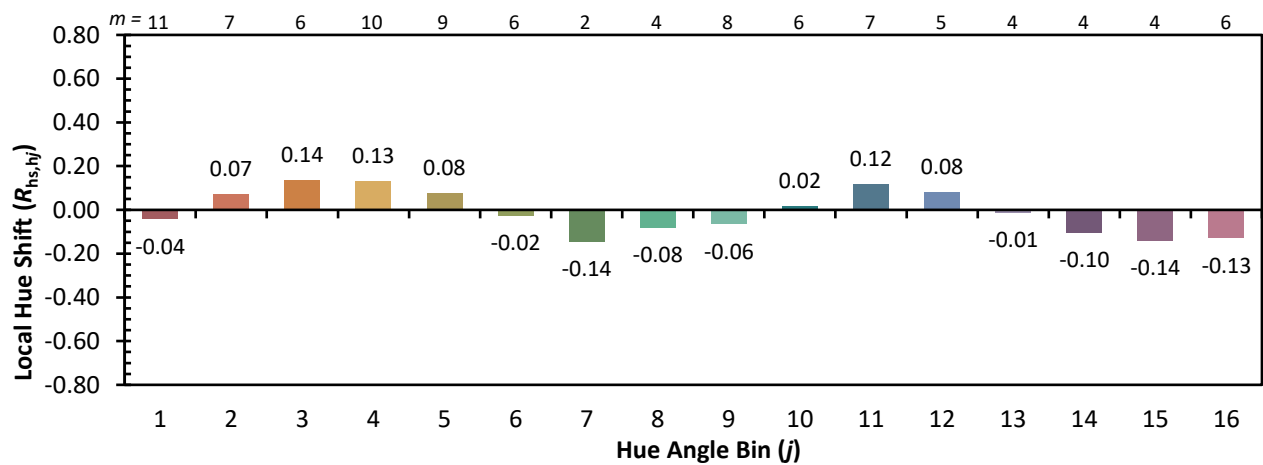
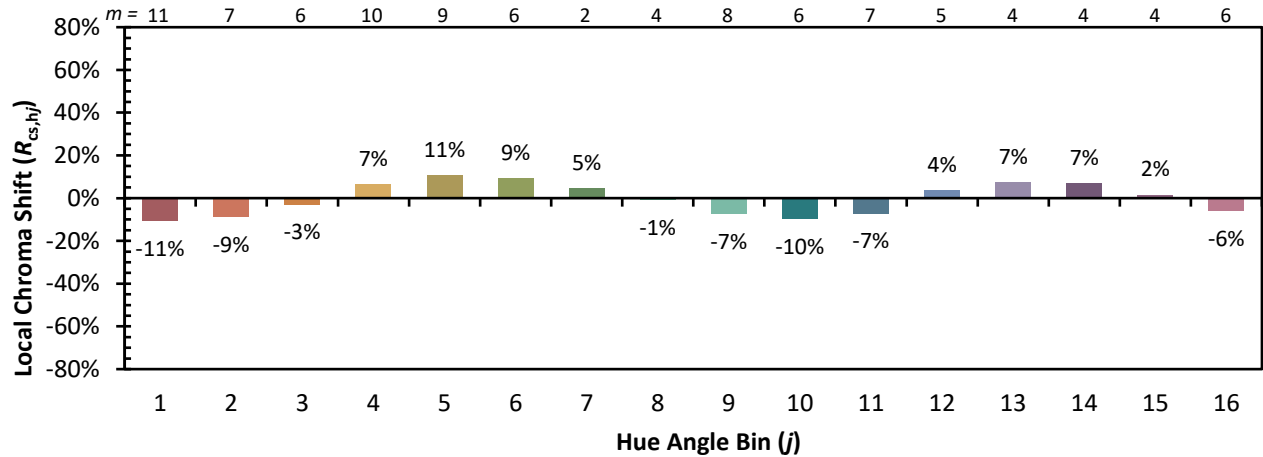


Individual Sample Fidelity Index ($R_{f,i}$)

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)