

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: P320789

Luminaire Tested: **GLEON-SA5A-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320789
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-SA5A-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16266 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

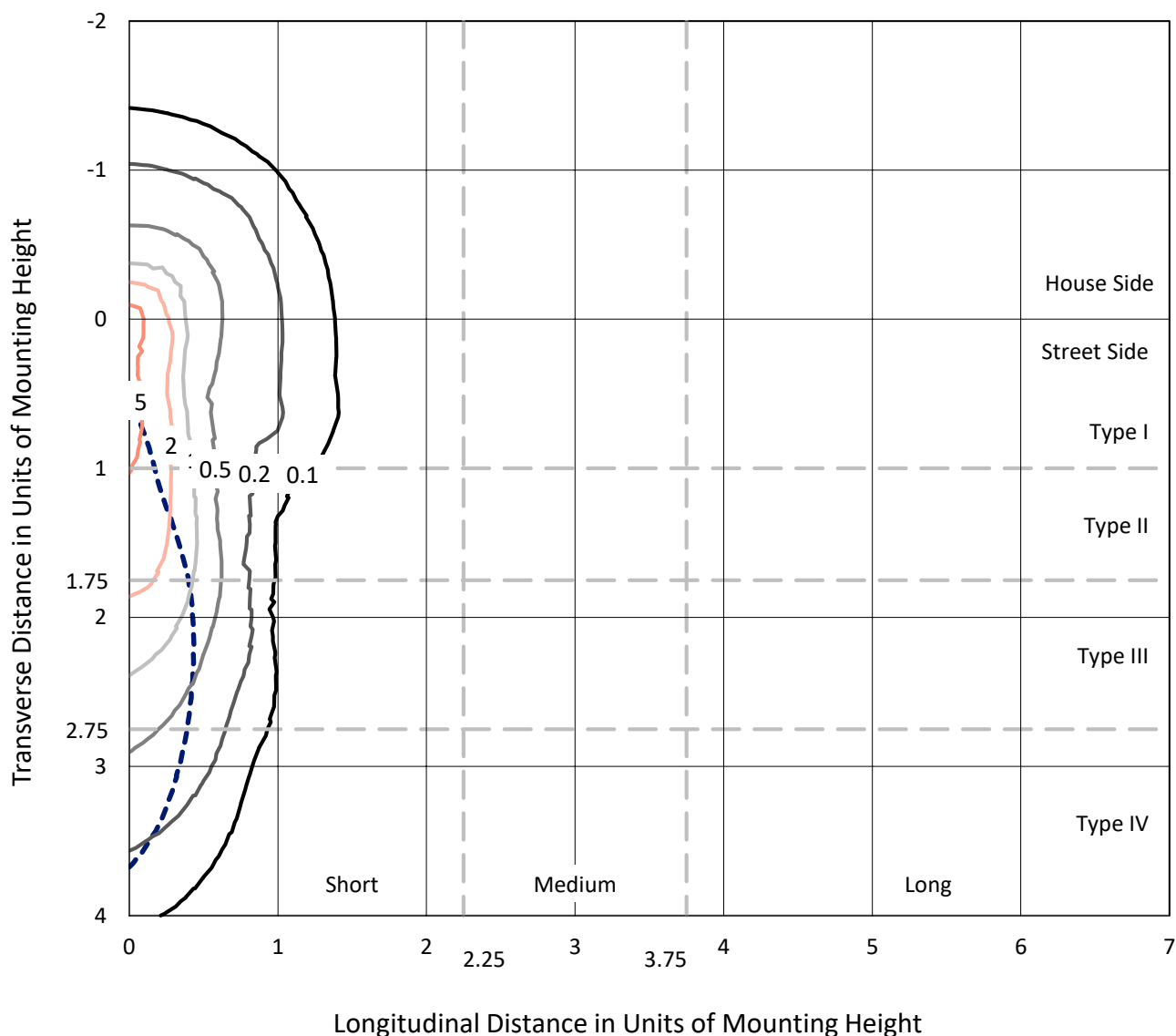
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

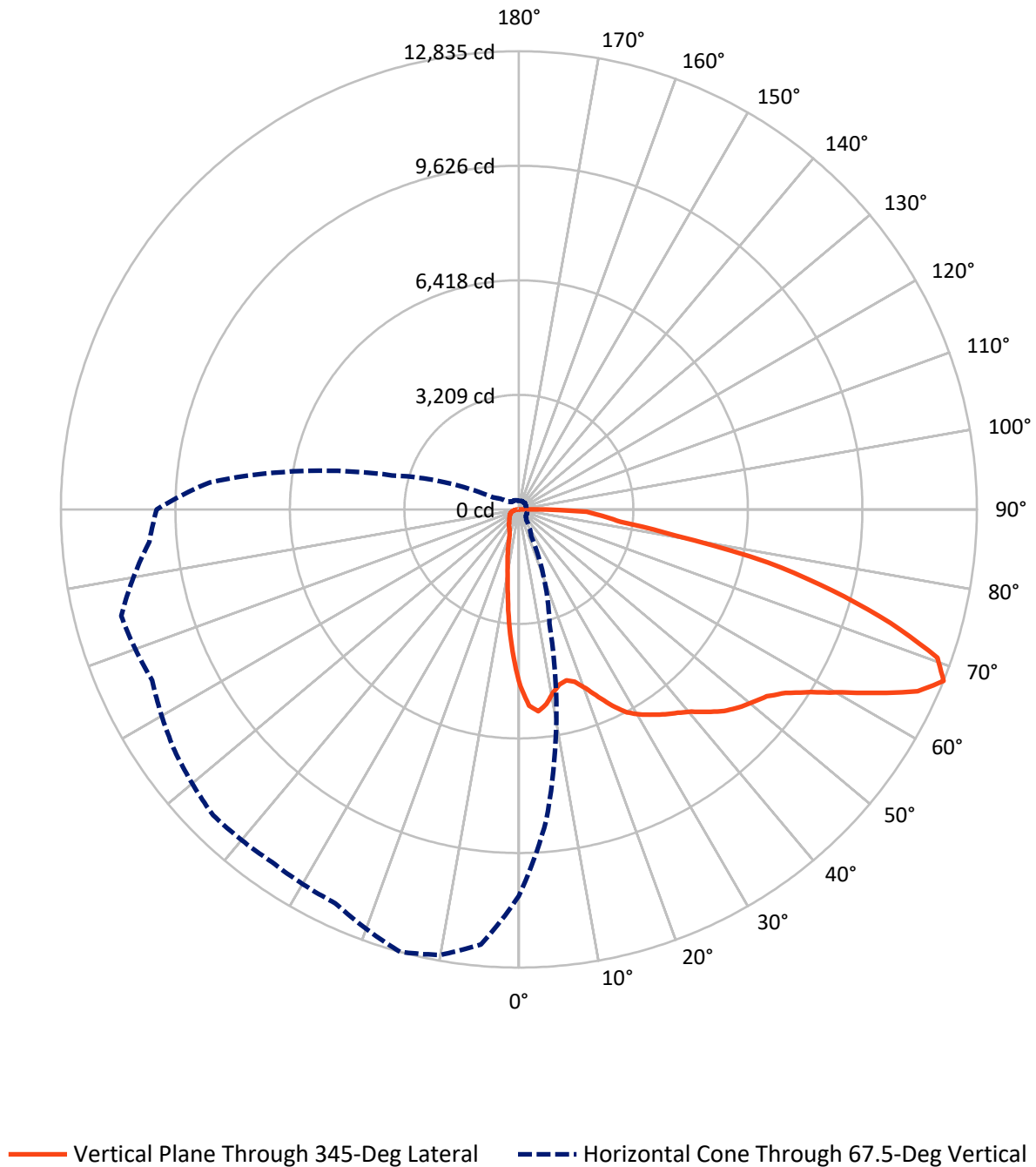
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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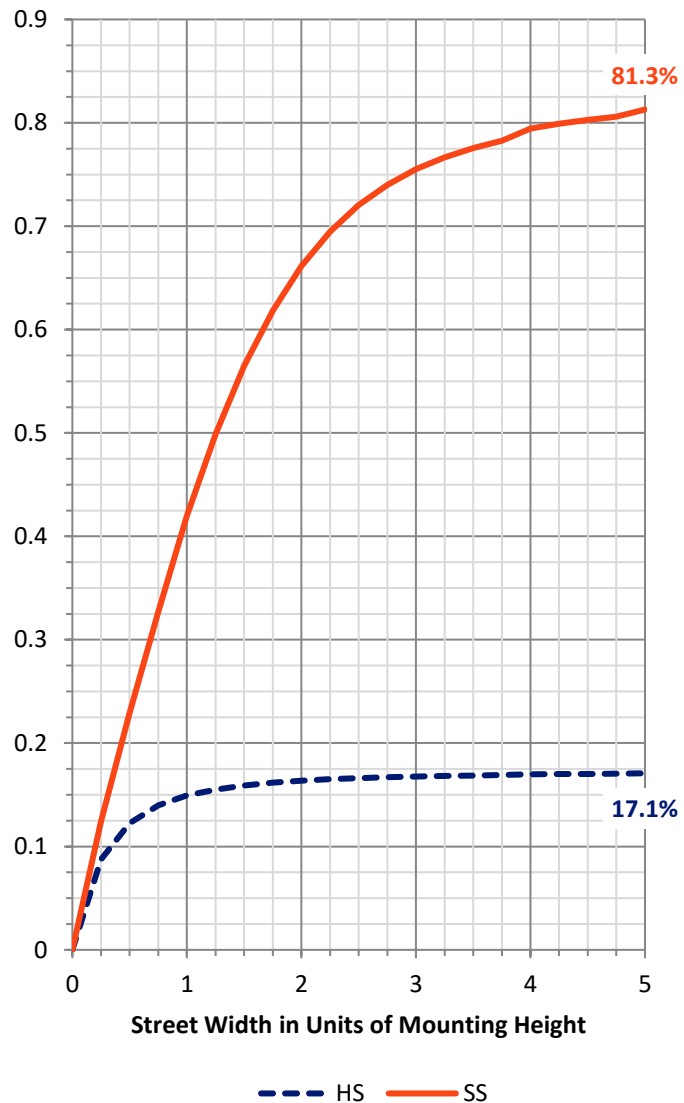
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2812.1	0.0	2812.1
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	13454.0	0.0	13454.0
	% Fixture	82.7	0.0	82.7
Total	Lumens	16266.0	0.0	16266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.5	2.4
10°-20°	794.5	4.9
20°-30°	1130.0	6.9
30°-40°	1628.3	10.0
40°-50°	2294.7	14.1
50°-60°	3190.1	19.6
60°-70°	3857.7	23.7
70°-80°	2371.3	14.6
80°-90°	617.0	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°	16266.0	100.0
0°-180°	16266.0	100.0

Coefficient of Utilization



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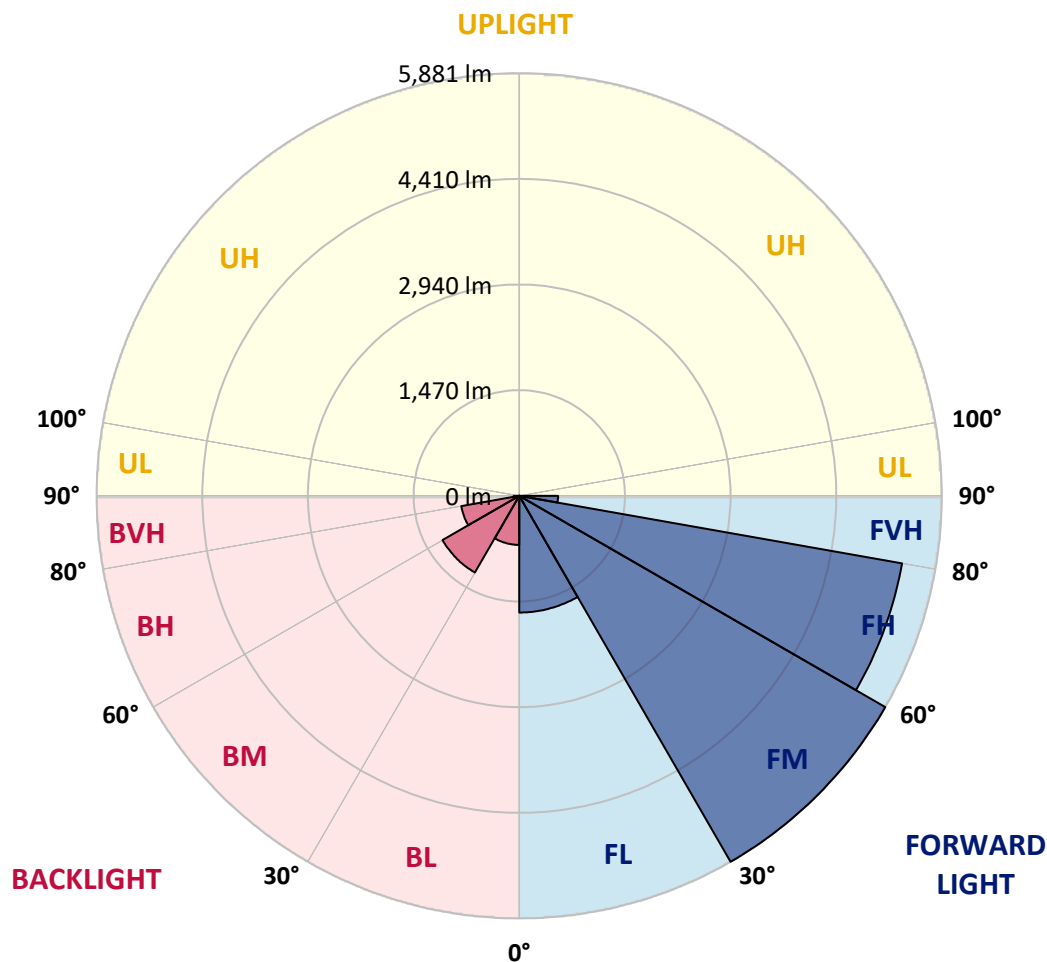
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.2	10.0			
FM	(30°-60°)	5880.6	36.2			
FH	(60°-80°)	5409.5	33.3			G3/7500
FVH	(80°-90°)	539.7	3.3			G4/750
BL	(0°-30°)	682.7	4.2	B2/1000		
BM	(30°-60°)	1232.5	7.6	B2/2500		
BH	(60°-80°)	819.5	5.0	B2/1000		G2/1000
BVH	(80°-90°)	77.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	5308.7	5261.9	5191.0	5120.1	5067.4	5014.1	4953.6	4893.1	4824.2	4754.6	4713.6
5°	5220.9	5090.8	4921.7	4752.6	4640.8	4528.9	4402.1	4275.3	4149.8	4024.3	3956.6
7.5°	4825.5	4630.4	4410.6	4190.8	4028.2	3864.9	3689.3	3513.1	3357.0	3200.3	3103.4
10°	4436.6	4202.5	3950.1	3697.2	3489.0	3280.9	3104.7	2927.8	2810.1	2692.4	2603.3
12.5°	4157.6	3898.1	3620.4	3342.1	3134.0	2925.9	2814.0	2702.1	2604.6	2507.0	2404.3
15°	4047.0	3753.7	3469.5	3184.7	2995.4	2806.2	2682.0	2557.1	2426.4	2295.0	2168.9
17.5°	4144.6	3801.2	3492.3	3183.4	2935.6	2687.8	2514.2	2339.9	2167.6	1995.2	1848.9
20°	4448.9	4010.6	3606.8	3202.2	2872.5	2542.8	2310.0	2076.5	1855.4	1634.3	1468.5
22.5°	4876.2	4296.1	3768.7	3241.3	2815.3	2388.7	2096.7	1804.0	1542.6	1281.2	1118.6
25°	5395.2	4674.6	4002.2	3329.1	2791.9	2254.1	1895.1	1536.1	1260.3	984.0	868.2
27.5°	5942.1	5125.9	4292.2	3457.8	2795.8	2133.7	1725.3	1316.3	1067.8	819.4	740.1
30°	6398.0	5641.7	4630.4	3618.5	2810.7	2003.0	1565.4	1127.7	922.8	718.0	666.6
32.5°	6814.9	6001.3	4885.3	3768.7	2827.7	1886.0	1441.8	997.0	829.8	662.0	619.8
35°	7245.4	6320.6	5063.5	3805.8	2798.4	1790.4	1357.2	924.1	770.0	615.2	579.4
37.5°	7719.5	6665.9	5235.2	3803.8	2749.0	1694.1	1291.6	888.4	731.0	572.9	546.9
40°	8248.2	7047.7	5421.2	3794.7	2704.1	1612.8	1242.8	872.1	709.5	546.3	524.2
42.5°	8765.2	7411.9	5594.2	3776.5	2667.7	1558.2	1194.7	831.1	690.0	548.2	517.0
45°	9153.5	7729.9	5744.4	3758.3	2640.4	1522.4	1156.9	791.5	671.8	552.1	512.5
47.5°	9448.1	8049.2	5910.9	3771.9	2637.8	1503.6	1130.3	757.0	637.3	517.0	500.8
50°	9822.7	8432.9	6153.5	3874.0	2673.5	1473.0	1099.1	724.5	604.2	483.8	506.0
52.5°	10288.9	8980.5	6529.4	4077.6	2748.3	1419.0	1049.6	680.2	563.8	446.8	481.2
55°	10973.7	9682.2	7010.0	4337.1	2838.7	1339.7	974.9	609.4	510.5	411.0	441.6
57.5°	11588.3	10391.0	7471.0	4550.4	2895.3	1239.5	880.6	521.6	450.7	379.8	397.4
60°	11862.1	10756.5	7687.0	4616.7	2861.5	1106.2	774.5	442.2	398.0	353.8	350.5
62.5°	11755.4	10524.4	7474.3	4424.2	2696.3	968.3	680.9	393.5	360.3	326.5	319.3
65°	11443.3	9794.7	6878.6	3962.5	2417.3	872.1	621.7	371.3	334.3	297.2	289.4
67.5°	10828.1	8756.1	6034.5	3312.8	2062.9	812.9	587.9	362.9	318.0	272.5	263.4
70°	9723.8	7506.2	5062.2	2617.6	1697.4	776.5	565.8	355.1	300.5	245.2	236.7
72.5°	7986.8	6018.2	4042.5	2066.1	1419.0	771.9	563.2	354.4	286.1	217.9	210.1
75°	5718.4	4571.2	3085.8	1599.8	1162.1	724.5	534.6	344.7	266.6	187.9	180.8
77.5°	3848.0	3163.9	2144.8	1125.1	862.3	599.6	449.4	299.2	228.3	157.4	150.2
80°	2471.3	2189.7	1437.2	684.8	559.3	433.8	321.3	208.8	166.5	123.6	117.7
82.5°	1813.1	1629.7	998.9	368.1	310.9	253.0	196.4	139.8	113.8	87.8	85.2
85°	1152.4	1270.8	735.5	200.3	163.9	127.5	105.4	83.2	65.7	48.1	48.1
87.5°	223.7	309.6	203.6	96.9	70.9	44.9	38.4	31.2	17.6	3.3	3.9
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°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4672.0	4627.1	4582.3	4531.5	4480.2	4432.7	4384.6	4331.9	4341.6	4301.3	4261.0
5°	3889.0	3817.5	3745.3	3682.8	3620.4	3566.4	3511.8	3463.0	3505.3	3476.7	3448.1
7.5°	3005.8	2917.4	2828.3	2753.5	2678.7	2620.8	2562.3	2522.0	2563.6	2558.4	2553.2
10°	2514.2	2428.3	2341.9	2259.3	2176.7	2106.4	2035.5	1975.7	1965.3	1935.4	1904.8
12.5°	2300.9	2183.2	2064.8	1978.3	1891.8	1807.9	1724.0	1653.8	1621.9	1572.5	1522.4
15°	2042.7	1903.5	1764.4	1666.2	1567.3	1486.0	1404.1	1343.6	1323.4	1285.1	1246.7
17.5°	1702.6	1550.4	1398.2	1298.7	1198.6	1133.5	1067.8	1027.5	1027.5	1016.5	1005.4
20°	1302.6	1166.7	1030.8	954.7	878.6	844.1	809.0	792.1	797.3	798.0	798.0
22.5°	955.3	872.1	788.9	758.3	727.1	714.7	702.4	695.2	697.8	698.5	699.1
25°	752.4	720.6	688.1	672.4	656.2	648.4	640.6	638.0	643.8	644.5	644.5
27.5°	660.7	641.2	621.1	611.3	600.9	597.7	594.4	589.9	595.7	595.7	595.1
30°	614.6	593.8	572.9	560.6	548.2	549.5	550.2	548.9	552.8	555.4	557.3
32.5°	576.8	556.7	536.5	524.2	511.2	509.2	507.3	506.0	514.4	519.0	523.5
35°	543.0	520.9	498.8	487.1	475.4	470.8	466.3	463.0	470.8	476.7	482.5
37.5°	520.3	497.5	474.1	463.0	451.3	445.5	439.6	435.7	439.0	441.6	444.2
40°	502.1	478.6	454.6	441.6	428.6	422.7	416.9	413.6	415.6	416.2	416.9
42.5°	485.1	462.4	439.6	425.3	410.4	403.2	396.1	392.2	393.5	394.8	395.4
45°	472.8	450.0	426.6	409.7	392.2	384.3	376.5	372.0	372.6	372.6	372.6
47.5°	484.5	451.3	417.5	398.0	377.8	368.7	359.6	355.1	353.8	352.5	351.2
50°	527.4	470.8	413.6	388.9	363.5	353.8	343.4	338.2	334.9	333.6	332.3
52.5°	515.1	466.3	416.9	385.0	352.5	340.8	329.1	320.6	317.4	315.4	313.5
55°	471.5	440.9	409.7	371.3	333.0	322.6	311.5	305.7	299.8	298.5	297.2
57.5°	414.3	401.9	389.6	350.5	311.5	301.8	291.3	287.4	282.2	282.2	281.6
60°	346.6	364.8	383.0	338.2	292.7	281.6	270.5	267.3	265.3	264.7	264.0
62.5°	311.5	341.4	370.7	323.2	275.1	263.4	251.7	247.8	247.1	247.8	247.8
65°	281.6	290.7	299.8	277.7	255.6	243.9	231.5	227.6	228.9	230.9	232.8
67.5°	254.3	252.3	250.4	242.6	234.1	224.4	214.0	210.1	210.7	213.3	215.9
70°	228.3	225.7	222.4	216.6	210.7	202.3	193.8	191.2	190.5	193.8	196.4
72.5°	202.3	199.0	195.1	190.5	185.3	178.2	171.0	169.1	169.7	171.7	173.6
75°	173.6	171.0	167.8	163.9	159.3	152.8	146.3	145.0	146.3	148.3	150.2
77.5°	142.4	141.8	140.5	137.2	134.0	126.8	119.0	118.4	120.3	122.3	123.6
80°	111.2	111.9	112.5	109.9	107.3	99.5	91.0	90.4	92.3	94.3	96.2
82.5°	81.9	83.9	85.2	81.9	78.7	69.6	60.5	59.2	65.7	67.6	69.6
85°	47.5	50.1	52.7	50.1	47.5	38.4	29.3	28.6	34.5	37.7	41.0
87.5°	3.9	5.2	6.5	5.9	5.2	2.6	0.0	0.0	0.7	3.3	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



REPORT NUMBER: P320789
 CATALOG NUMBER: GLEON-SA5A-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: P320789

CATALOG NUMBER: GLEON-SA5A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4235.6	4210.3	4202.5	4194.7	4166.0	4136.8	4166.7	4196.0	4208.3	4220.7	4188.8
5°	3444.2	3439.6	3439.6	3439.0	3413.0	3386.3	3406.5	3426.0	3382.4	3338.8	3334.3
7.5°	2581.2	2609.1	2631.9	2654.0	2645.6	2637.1	2656.0	2674.8	2619.5	2563.6	2536.3
10°	1911.3	1917.2	1941.9	1966.6	1972.5	1977.7	2001.1	2023.8	1980.9	1938.0	1919.1
12.5°	1491.2	1460.0	1463.3	1465.9	1477.6	1488.6	1513.3	1537.4	1519.8	1501.6	1503.6
15°	1207.7	1168.0	1151.7	1134.8	1147.8	1160.8	1178.4	1195.3	1196.0	1196.0	1212.9
17.5°	985.9	965.7	949.5	932.6	950.1	967.0	969.0	970.9	971.6	972.3	970.9
20°	807.7	817.5	812.3	807.1	813.6	819.4	824.6	829.2	823.3	816.8	800.6
22.5°	708.2	716.7	723.2	729.0	740.1	750.5	745.3	739.4	727.7	715.4	703.0
25°	650.3	656.2	662.7	669.2	678.3	686.8	677.6	668.5	660.1	651.6	643.2
27.5°	601.6	607.4	613.3	618.5	626.9	634.7	626.3	617.8	610.7	603.5	597.0
30°	561.9	565.8	570.3	574.9	582.7	589.9	582.7	574.9	569.7	563.8	559.3
32.5°	528.1	532.0	533.9	535.9	543.0	550.2	545.0	539.8	535.2	530.7	527.4
35°	491.0	498.8	500.1	501.4	508.6	515.7	512.5	508.6	503.4	498.2	492.3
37.5°	453.3	462.4	467.6	472.1	479.3	486.5	483.2	479.9	472.8	465.6	455.2
40°	421.4	425.3	435.1	444.2	455.9	466.9	460.4	453.3	442.2	431.2	426.0
42.5°	394.8	394.1	403.2	412.3	429.9	446.8	435.1	423.4	413.0	402.6	401.3
45°	371.3	369.4	373.9	378.5	397.4	415.6	403.9	391.5	385.6	379.8	379.8
47.5°	350.5	349.2	352.5	355.1	366.8	377.8	372.0	366.1	362.9	359.6	360.3
50°	331.7	330.4	333.6	336.2	340.8	344.7	346.0	346.6	344.7	342.7	344.0
52.5°	314.1	314.1	315.4	316.1	321.9	327.8	327.8	327.1	327.1	327.1	328.4
55°	299.2	300.5	300.5	300.5	309.6	318.0	315.4	312.8	313.5	313.5	314.8
57.5°	284.2	286.1	287.4	288.7	297.9	307.0	304.4	301.8	301.8	301.8	302.4
60°	267.3	269.9	272.5	275.1	284.2	293.3	290.7	287.4	288.1	288.7	289.4
62.5°	251.0	253.6	256.2	258.8	267.9	277.0	274.4	271.2	273.1	274.4	274.4
65°	235.4	237.4	240.0	242.6	251.0	259.5	256.9	254.3	256.9	258.8	260.1
67.5°	217.9	219.2	221.8	224.4	232.8	241.3	238.7	235.4	238.7	241.3	243.9
70°	197.7	199.0	202.3	204.9	213.3	221.8	218.5	215.3	218.5	221.8	224.4
72.5°	175.6	176.9	180.1	182.7	192.5	202.3	198.4	194.5	198.4	202.3	203.6
75°	151.5	152.8	156.7	160.0	169.7	179.5	176.2	172.3	175.6	178.8	179.5
77.5°	125.5	127.5	132.7	137.9	145.7	153.5	151.5	149.6	151.5	153.5	153.5
80°	98.2	100.2	106.7	112.5	117.1	121.6	122.3	122.9	123.6	124.2	123.6
82.5°	72.8	75.4	81.3	87.1	87.1	87.1	92.3	96.9	96.9	96.2	95.6
85°	44.9	48.1	53.3	58.5	55.3	52.0	60.5	68.3	68.3	67.6	66.3
87.5°	9.1	12.4	17.6	22.1	18.9	15.6	24.1	32.5	33.2	33.2	31.9
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: P320789
 CATALOG NUMBER: GLEON-SA5A-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: P320789

CATALOG NUMBER: GLEON-SA5A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4156.3	4207.0	4257.1	4270.1	4289.6	4298.1	4305.9	4369.6	4432.7	4506.8	4581.0
5°	3329.1	3366.8	3404.5	3410.4	3430.5	3440.9	3451.3	3528.7	3605.5	3708.9	3812.3
7.5°	2509.0	2518.1	2527.2	2525.9	2542.8	2565.6	2587.7	2670.3	2752.2	2863.4	2974.0
10°	1900.3	1921.1	1941.2	1960.1	1997.2	2040.1	2082.4	2166.9	2251.5	2361.4	2470.6
12.5°	1505.5	1529.6	1553.0	1573.8	1616.7	1674.0	1730.5	1832.0	1933.4	2064.8	2195.5
15°	1229.1	1227.2	1225.2	1239.5	1277.3	1339.7	1401.5	1508.8	1616.1	1760.5	1904.2
17.5°	969.6	959.9	950.1	961.2	996.3	1047.7	1098.4	1189.5	1279.9	1419.7	1559.5
20°	784.3	777.8	771.3	781.7	803.8	825.3	846.7	912.4	977.5	1091.3	1204.4
22.5°	690.0	689.4	688.1	693.9	704.3	715.4	725.8	757.6	788.9	862.3	935.2
25°	634.7	634.1	633.4	636.0	644.5	652.9	661.4	682.2	703.0	738.1	773.2
27.5°	590.5	589.2	587.9	588.6	590.5	603.5	615.9	625.6	634.7	658.8	682.2
30°	554.7	554.1	553.4	553.4	551.5	556.0	560.6	575.5	589.9	614.6	639.3
32.5°	524.2	520.9	517.7	510.5	506.0	512.5	519.0	534.6	550.2	572.9	595.7
35°	485.8	477.3	468.2	464.3	465.0	471.5	478.0	493.6	508.6	533.3	557.3
37.5°	444.2	441.6	438.3	437.7	439.6	446.1	452.6	466.3	479.3	504.0	528.1
40°	420.8	419.5	418.2	416.9	418.2	424.7	431.2	444.2	456.5	480.6	504.0
42.5°	400.0	399.3	398.7	398.7	399.3	406.5	413.6	426.6	439.0	460.4	481.9
45°	379.8	380.4	380.4	381.7	383.7	390.9	397.4	411.7	426.0	446.8	467.6
47.5°	360.9	362.9	364.2	367.4	369.4	377.2	384.3	400.0	415.6	441.6	466.9
50°	344.7	346.6	347.9	350.5	355.7	364.8	373.9	392.8	411.0	454.6	497.5
52.5°	329.7	331.7	333.6	336.2	342.7	353.1	363.5	386.9	409.7	460.4	511.2
55°	316.1	318.0	319.3	323.2	329.7	338.8	347.3	375.9	404.5	441.6	478.6
57.5°	303.1	305.0	306.3	308.9	312.2	321.9	331.0	361.6	392.2	418.2	443.5
60°	289.4	290.7	291.3	291.3	294.0	305.0	316.1	355.1	393.5	388.9	383.7
62.5°	274.4	275.7	276.4	274.4	277.7	289.4	301.1	351.8	402.6	371.3	340.1
65°	260.8	260.1	259.5	257.5	261.4	273.1	284.2	309.6	334.9	322.6	310.2
67.5°	245.8	243.9	241.9	239.3	243.2	253.6	263.4	271.8	280.3	281.6	282.9
70°	227.0	224.4	221.8	221.1	223.1	231.5	240.0	245.8	251.0	253.6	255.6
72.5°	204.9	202.9	201.0	199.7	200.3	207.5	214.0	219.2	224.4	226.3	227.6
75°	180.1	180.1	179.5	175.6	175.6	181.4	186.6	191.2	195.8	198.4	201.0
77.5°	153.5	154.1	154.1	148.9	148.3	154.1	159.3	163.2	166.5	169.1	171.0
80°	122.9	121.6	120.3	117.1	115.8	122.9	129.4	132.7	135.3	135.9	135.9
82.5°	94.3	91.7	88.4	81.3	81.9	89.7	96.9	99.5	102.1	102.1	102.1
85°	64.4	59.2	53.3	47.5	48.1	56.6	64.4	67.0	69.6	70.9	71.5
87.5°	30.6	25.4	19.5	15.0	15.0	22.1	28.6	29.9	31.2	33.8	36.4
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: P320789
 CATALOG NUMBER: GLEON-SA5A-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: P320789

CATALOG NUMBER: GLEON-SA5A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4637.5	4693.5	4751.3	4809.2	4875.6	4941.9	5019.3	5096.0	5161.7	5227.4	5282.0
5°	3901.4	3990.5	4095.2	4199.9	4333.2	4466.5	4629.7	4792.3	4937.3	5082.4	5250.8
7.5°	3090.4	3206.1	3342.7	3479.3	3651.6	3824.0	4035.3	4246.7	4451.5	4655.7	4914.6
10°	2592.2	2713.8	2848.5	2982.4	3158.0	3333.0	3556.7	3779.7	4010.0	4239.5	4532.2
12.5°	2330.8	2465.4	2583.8	2702.1	2844.6	2986.3	3202.9	3419.5	3690.0	3959.9	4241.5
15°	2051.8	2198.8	2340.6	2482.3	2637.8	2792.5	3003.2	3214.0	3509.9	3805.8	4129.6
17.5°	1714.3	1869.1	2042.1	2214.4	2417.3	2619.5	2889.4	3159.3	3509.9	3859.7	4241.5
20°	1362.5	1520.5	1727.3	1934.1	2186.4	2438.1	2788.0	3137.9	3610.0	4081.5	4568.6
22.5°	1075.0	1214.2	1439.8	1664.9	1956.2	2247.6	2696.3	3144.4	3761.5	4378.1	5035.5
25°	871.4	969.6	1191.4	1412.5	1748.7	2085.0	2640.4	3195.1	3982.0	4768.3	5583.8
27.5°	746.6	811.0	1017.8	1223.9	1591.4	1958.2	2617.6	3276.4	4261.6	5246.9	6180.1
30°	684.2	729.0	904.0	1078.3	1451.5	1824.8	2590.3	3355.7	4530.9	5705.4	6646.4
32.5°	632.1	667.9	817.5	966.4	1330.6	1694.8	2537.6	3379.8	4718.8	6057.9	7041.2
35°	587.9	617.8	747.9	878.0	1235.6	1593.3	2449.2	3305.0	4836.5	6368.1	7452.2
37.5°	552.1	575.5	695.9	816.2	1153.7	1491.2	2348.4	3205.5	4941.2	6677.0	7914.6
40°	524.2	544.3	656.8	769.3	1075.7	1382.0	2261.9	3141.1	5085.6	7030.1	8403.0
42.5°	508.6	534.6	623.0	710.8	1001.5	1292.2	2192.3	3092.3	5219.6	7346.2	8830.2
45°	504.7	541.7	605.5	669.2	946.2	1223.3	2130.5	3037.1	5306.1	7575.1	9152.2
47.5°	498.2	528.7	591.8	654.9	918.9	1182.3	2097.3	3011.7	5392.6	7772.8	9419.4
50°	502.1	506.0	580.7	654.9	915.0	1175.2	2135.0	3094.9	5579.9	8064.1	9725.1
52.5°	494.9	478.0	559.9	641.9	914.4	1186.9	2243.7	3300.4	5927.8	8554.5	10056.1
55°	457.2	435.1	520.9	606.8	900.7	1194.0	2373.1	3551.5	6394.7	9237.4	10651.2
57.5°	424.0	403.9	476.7	548.9	859.1	1169.3	2506.4	3842.8	6888.3	9933.2	11321.7
60°	379.8	375.2	427.3	479.3	794.7	1109.5	2616.3	4122.5	7220.0	10316.9	11579.9
62.5°	343.4	346.0	384.3	422.7	714.1	1004.8	2652.7	4300.0	7210.9	10121.8	11319.7
65°	315.4	320.0	357.7	395.4	645.1	894.9	2533.1	4170.6	6846.1	9520.9	10805.3
67.5°	288.1	293.3	338.2	382.4	584.0	785.0	2233.9	3682.2	6189.9	8696.9	10151.1
70°	262.1	268.6	317.4	366.1	539.8	712.8	1848.3	2983.7	5368.5	7752.6	9393.4
72.5°	234.1	240.6	292.7	344.7	511.8	678.3	1506.8	2334.7	4356.6	6377.8	8034.9
75°	205.5	210.1	266.6	322.6	473.4	624.3	1182.3	1739.6	3334.3	4928.9	6068.9
77.5°	176.9	182.7	230.2	277.0	401.9	526.1	891.0	1255.8	2446.6	3636.7	4220.7
80°	141.1	146.3	180.1	213.3	310.2	406.5	612.6	818.8	1683.7	2548.7	2877.7
82.5°	108.0	113.8	136.6	158.7	221.1	283.5	371.3	459.1	1118.6	1777.4	1804.7
85°	74.1	76.1	92.3	108.0	136.6	165.2	212.7	260.1	740.1	1220.0	1016.5
87.5°	37.1	37.1	48.1	59.2	73.5	87.8	112.5	136.6	236.7	336.9	193.8
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: P320789
 CATALOG NUMBER: GLEON-SA5A-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: P320789

CATALOG NUMBER: GLEON-SA5A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	5351.6	5399.1	5447.2	5483.6	5520.7	5574.0	5627.3	5637.1	5647.5	5626.7	5605.9
5°	5420.5	5564.3	5708.6	5842.0	5975.3	6055.3	6135.3	6151.5	6167.8	6117.7	6067.0
7.5°	5165.0	5415.3	5665.7	5895.3	6124.9	6264.0	6403.8	6435.1	6466.9	6385.0	6303.0
10°	4823.5	5131.1	5438.7	5741.2	6043.6	6245.8	6448.1	6488.4	6528.7	6426.6	6324.5
12.5°	4559.5	4887.9	5216.3	5535.0	5854.3	6063.7	6273.1	6323.2	6373.3	6299.1	6224.4
15°	4478.2	4787.1	5096.0	5373.7	5652.1	5823.1	5994.8	6014.9	6035.8	6024.0	6012.3
17.5°	4625.8	4904.8	5184.5	5335.3	5486.9	5555.2	5624.1	5646.2	5669.0	5698.2	5728.1
20°	4983.5	5179.9	5377.0	5370.5	5363.3	5330.1	5296.3	5290.5	5284.6	5368.5	5453.1
22.5°	5517.4	5595.5	5674.2	5491.4	5308.7	5197.5	5085.6	5063.5	5040.7	5129.8	5219.6
25°	6096.9	6082.6	6067.6	5719.7	5371.1	5159.1	4947.1	4922.4	4897.7	4973.8	5050.5
27.5°	6670.5	6576.8	6483.2	6010.4	5537.6	5230.0	4922.4	4897.7	4873.0	4940.6	5008.2
30°	7091.2	6941.0	6790.8	6255.6	5720.3	5354.9	4989.4	4949.0	4908.1	4991.3	5074.6
32.5°	7419.7	7218.1	7016.5	6454.6	5892.7	5497.3	5101.9	5038.8	4975.7	5086.9	5198.1
35°	7747.4	7463.9	7179.7	6632.1	6083.9	5665.7	5246.9	5169.5	5092.1	5244.9	5397.8
37.5°	8159.7	7752.6	7344.9	6831.8	6318.7	5918.0	5516.8	5437.4	5358.1	5552.6	5747.7
40°	8607.2	8064.1	7521.1	7050.3	6579.4	6267.3	5954.5	5879.0	5802.9	6039.7	6276.4
42.5°	8979.2	8354.2	7729.2	7313.7	6897.4	6677.6	6457.2	6456.5	6455.2	6695.2	6935.2
45°	9281.6	8596.1	7910.0	7570.5	7230.4	7116.0	7001.5	7093.2	7184.9	7401.5	7618.7
47.5°	9507.2	8799.0	8090.2	7864.5	7638.8	7655.7	7672.6	7859.3	8045.9	8185.1	8324.9
50°	9654.2	8983.1	8311.3	8241.7	8172.1	8323.6	8475.8	8689.8	8904.4	8999.3	9094.3
52.5°	9868.2	9232.8	8596.8	8674.8	8752.9	9062.4	9372.0	9588.5	9805.1	9840.2	9876.0
55°	10363.1	9691.9	9020.1	9169.7	9319.9	9773.9	10228.5	10397.5	10566.6	10579.6	10592.6
57.5°	11066.1	10335.1	9604.1	9765.4	9926.7	10450.9	10975.7	11157.8	11340.5	11315.2	11289.2
60°	11592.2	10945.8	10298.7	10461.3	10623.9	11135.0	11646.2	11855.6	12065.7	12009.7	11953.8
62.5°	11624.7	11279.4	10933.4	11080.4	11228.0	11728.8	12229.5	12444.8	12660.1	12562.5	12465.0
65°	11107.7	11262.5	11417.3	11466.0	11514.8	11981.8	12449.4	12613.9	12779.1	12729.6	12680.2
67.5°	10395.6	10965.9	11536.9	11438.7	11340.5	11559.7	11778.9	11948.6	12118.3	12090.4	12061.8
70°	9684.8	10446.3	11207.9	10725.3	10242.1	10151.7	10061.3	10244.1	10427.5	10314.3	10200.5
72.5°	8474.5	9286.1	10098.4	9209.4	8320.4	8011.5	7702.6	7934.7	8166.9	7986.8	7806.0
75°	6652.3	7549.1	8446.5	7385.8	6325.2	5912.8	5500.5	5700.2	5899.8	5776.3	5652.1
77.5°	4952.3	5836.1	6719.9	5641.7	4562.7	4256.4	3949.5	4008.7	4068.5	4047.7	4026.2
80°	3359.0	3974.8	4591.4	3873.4	3155.4	3178.8	3202.9	3174.9	3146.3	3187.9	3229.6
82.5°	2143.5	2618.9	3094.9	2713.8	2332.8	2551.3	2769.8	2662.5	2554.5	2594.2	2634.5
85°	1223.3	1688.3	2153.9	2007.6	1860.6	1988.1	2116.2	1949.7	1783.2	1856.1	1929.5
87.5°	322.6	933.9	1545.8	1403.4	1261.0	1095.8	930.6	710.2	489.7	715.4	941.0
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: P320789
 CATALOG NUMBER: GLEON-SA5A-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: P320789

CATALOG NUMBER: GLEON-SA5A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	5594.8	5583.8	5544.1	5503.8	5444.0	5394.5	5308.7
5°	5996.7	5926.5	5805.5	5683.9	5548.7	5393.2	5220.9
7.5°	6139.2	5974.6	5742.5	5509.6	5300.2	5054.4	4825.5
10°	6078.7	5832.2	5530.4	5228.0	4973.8	4690.9	4436.6
12.5°	5962.9	5700.8	5368.5	5035.5	4746.1	4442.4	4157.6
15°	5803.6	5594.2	5282.7	4971.2	4679.8	4384.6	4047.0
17.5°	5629.3	5529.8	5304.8	5079.1	4826.8	4540.6	4144.6
20°	5488.8	5525.2	5435.5	5345.8	5143.5	4893.8	4448.9
22.5°	5393.9	5568.8	5637.8	5707.3	5585.7	5390.6	4876.2
25°	5340.5	5630.6	5861.5	6093.0	6039.0	5888.8	5395.2
27.5°	5364.0	5719.7	6078.0	6437.0	6487.1	6445.5	5942.1
30°	5434.2	5794.5	6230.9	6667.9	6867.5	6923.5	6398.0
32.5°	5551.3	5904.4	6379.8	6855.8	7157.6	7335.8	6814.9
35°	5728.1	6058.5	6554.1	7049.6	7439.8	7765.0	7245.4
37.5°	6031.9	6316.0	6773.2	7231.1	7737.0	8225.4	7719.5
40°	6476.7	6677.6	7063.9	7450.9	8087.6	8747.0	8248.2
42.5°	7037.9	7141.3	7447.6	7753.9	8453.7	9220.4	8765.2
45°	7646.0	7673.3	7865.8	8058.9	8743.7	9543.0	9153.5
47.5°	8231.3	8137.6	8214.4	8291.1	8966.2	9773.2	9448.1
50°	8833.5	8572.7	8532.4	8492.1	9188.6	10044.4	9822.7
52.5°	9446.1	9016.2	8856.9	8696.9	9453.9	10404.1	10288.9
55°	10045.7	9498.8	9284.2	9069.6	9859.7	10843.0	10973.7
57.5°	10669.4	10049.6	9850.6	9651.6	10456.1	11399.1	11588.3
60°	11340.5	10726.6	10567.3	10407.3	11197.5	12000.0	11862.1
62.5°	11977.2	11489.5	11405.6	11321.0	11947.3	12461.7	11755.4
65°	12402.5	12124.2	12202.2	12280.9	12514.4	12576.8	11443.3
67.5°	12118.3	12174.9	12504.6	12835.0	12674.4	12234.7	10828.1
70°	10539.3	10878.8	11659.8	12441.6	12085.2	11318.4	9723.8
72.5°	8187.1	8568.8	9728.4	10888.6	10560.1	9621.0	7986.8
75°	6082.6	6513.8	7793.6	9073.5	8617.6	7196.6	5718.4
77.5°	4315.0	4603.7	5867.3	7131.6	6388.2	4790.4	3848.0
80°	3141.1	3052.7	3757.0	4461.3	4337.7	3168.4	2471.3
82.5°	2418.6	2202.7	2534.4	2866.0	2847.8	2198.8	1813.1
85°	1843.0	1756.6	2049.9	2343.2	2092.1	1489.3	1152.4
87.5°	1074.4	1208.3	1553.6	1899.6	1425.5	452.0	223.7
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: P320789
 CATALOG NUMBER: GLEON-SA5A-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.

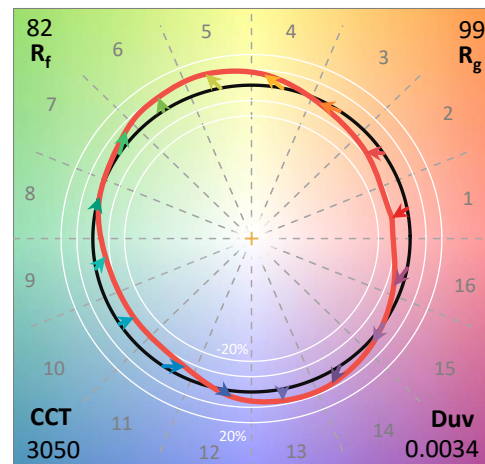
Test Information

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

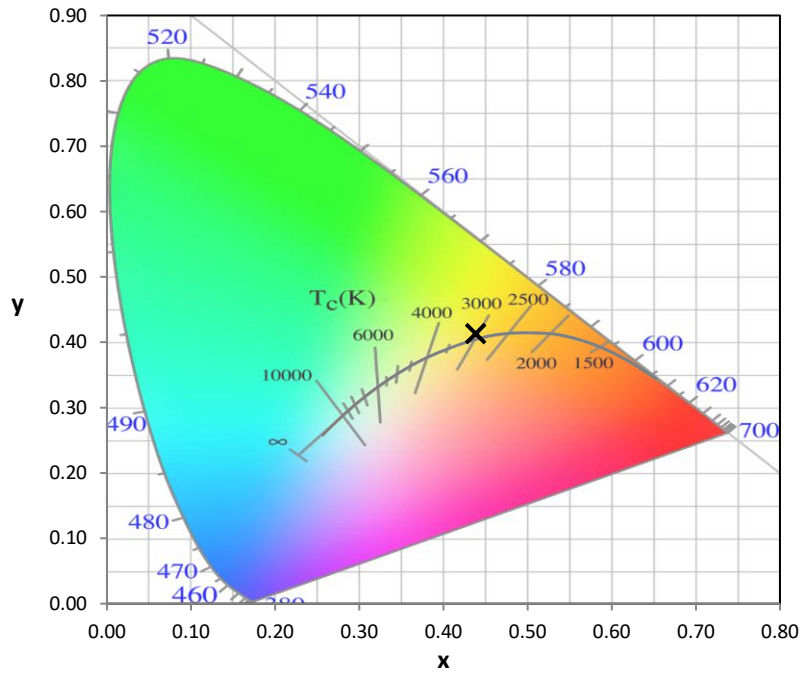
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

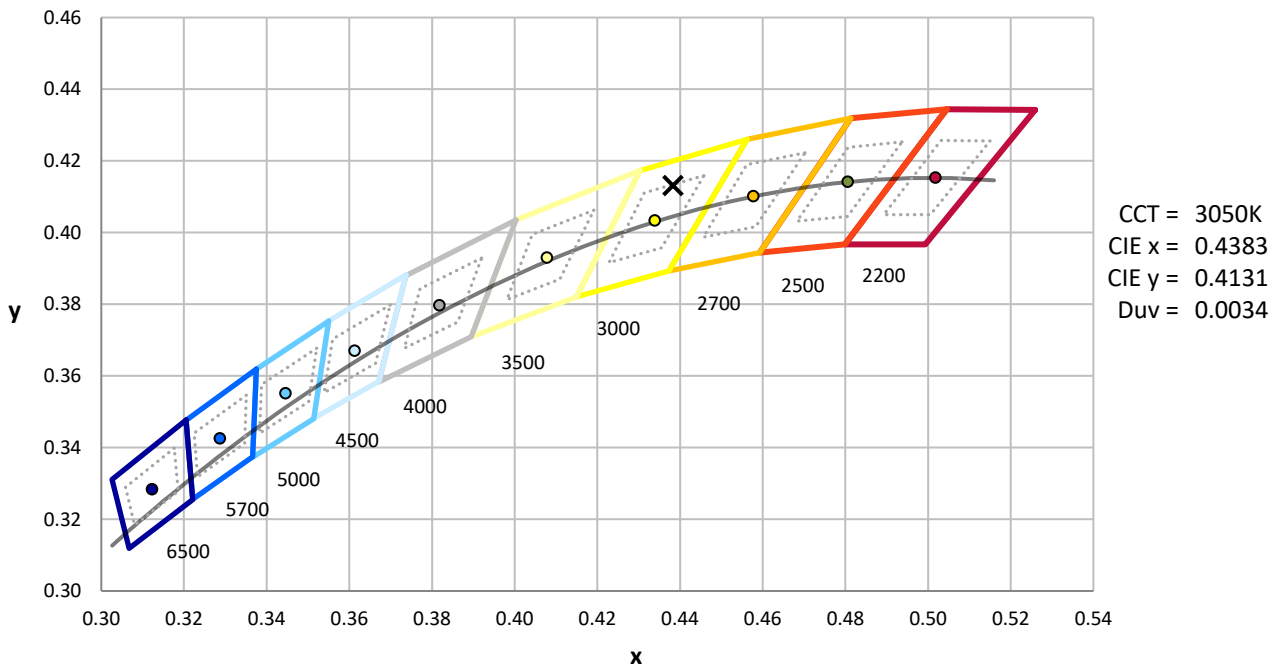
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

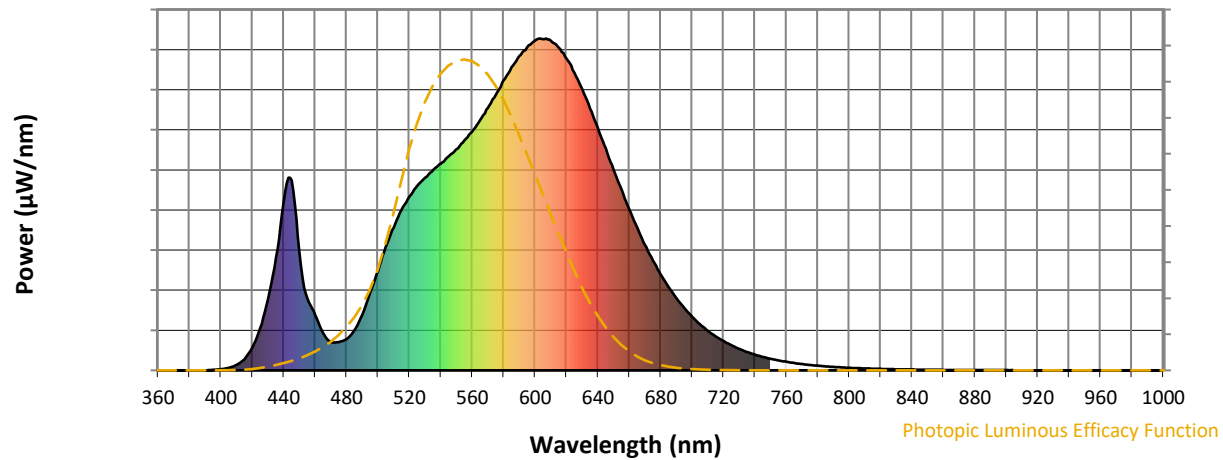


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

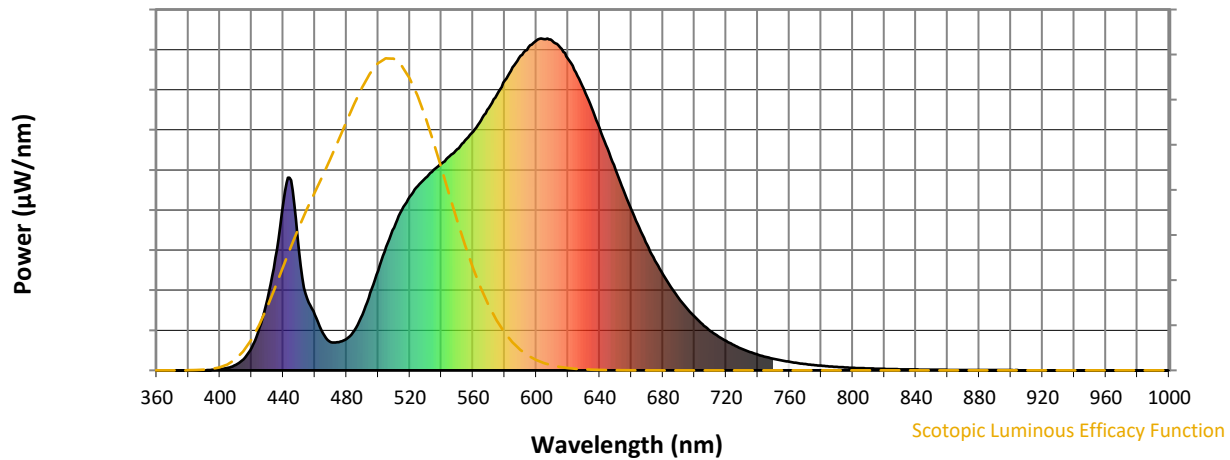


Photopic Lumens: NR

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



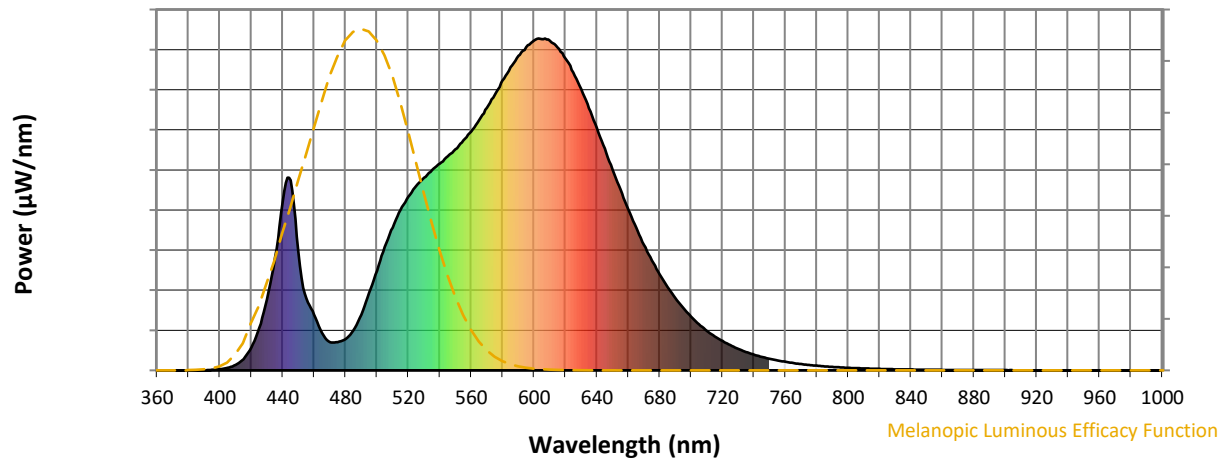
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

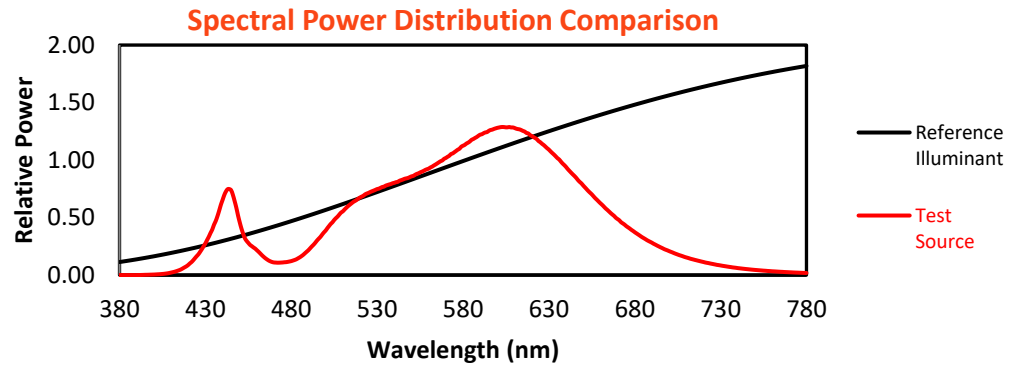
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	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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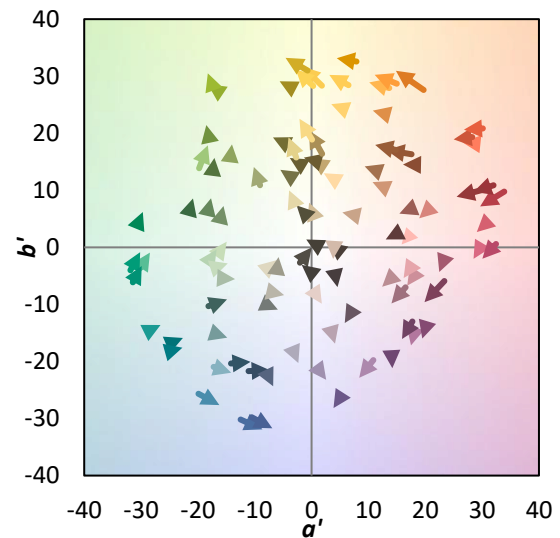
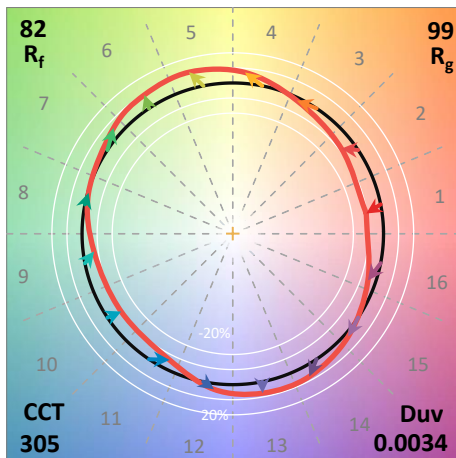
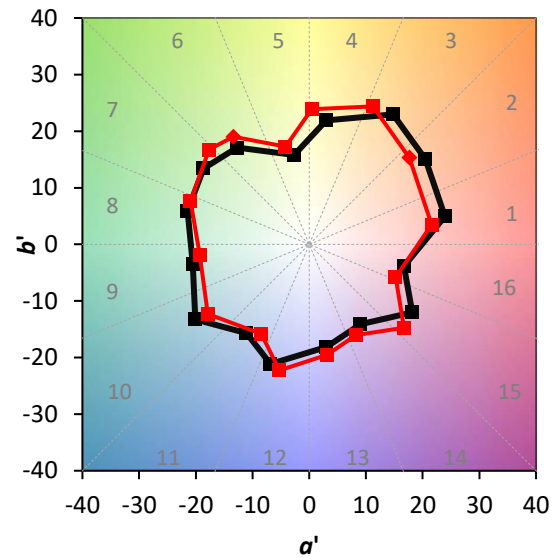
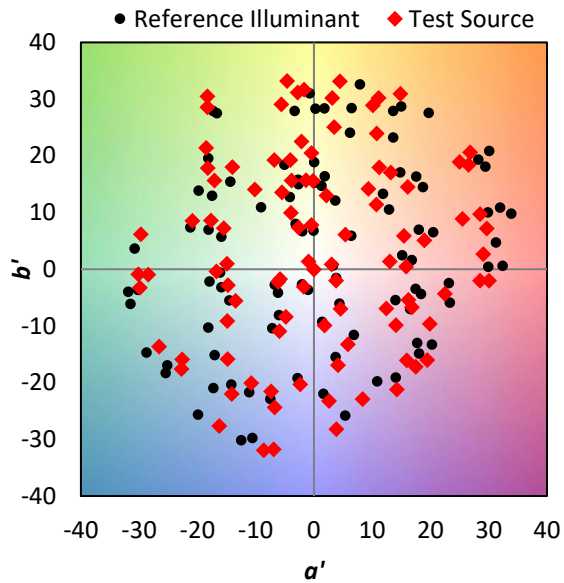
TM-30-18

Summary

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

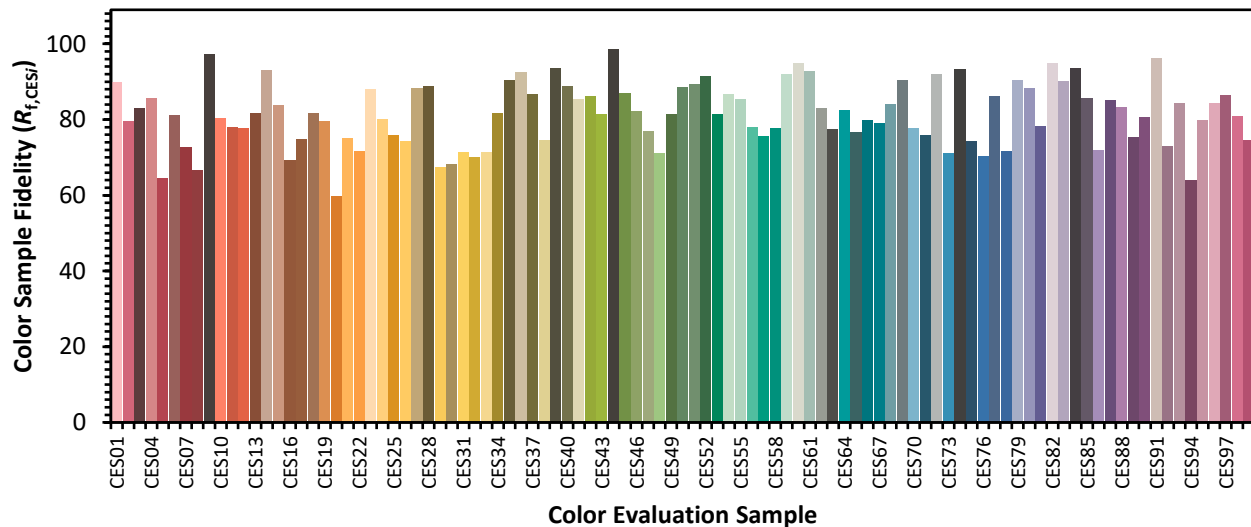


Color Vector Graphics

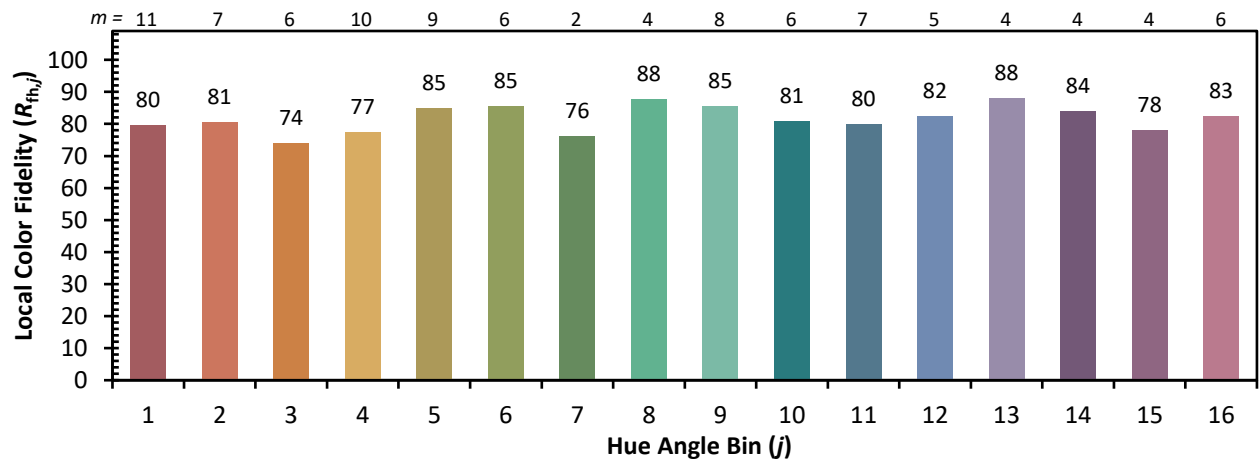
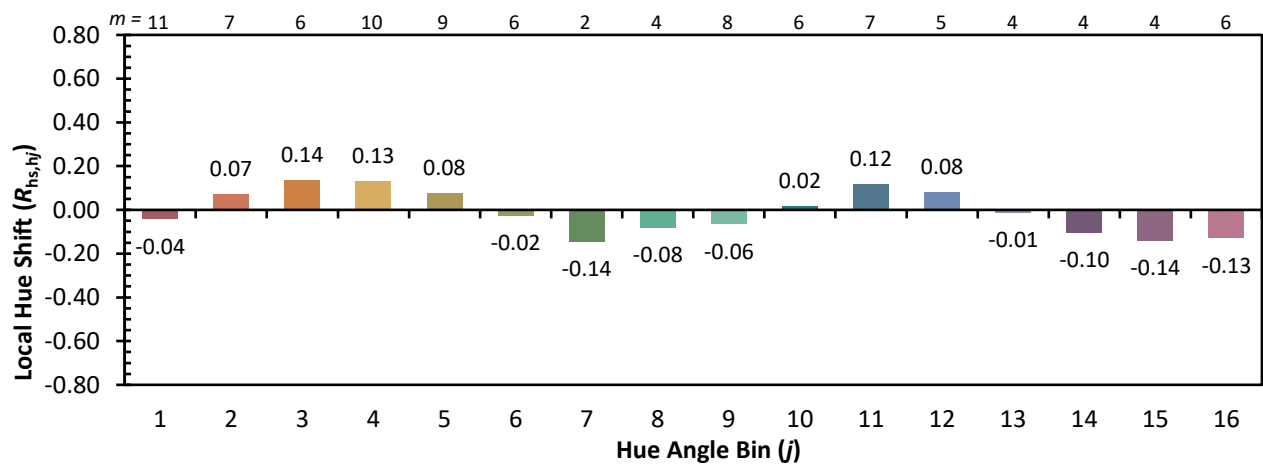
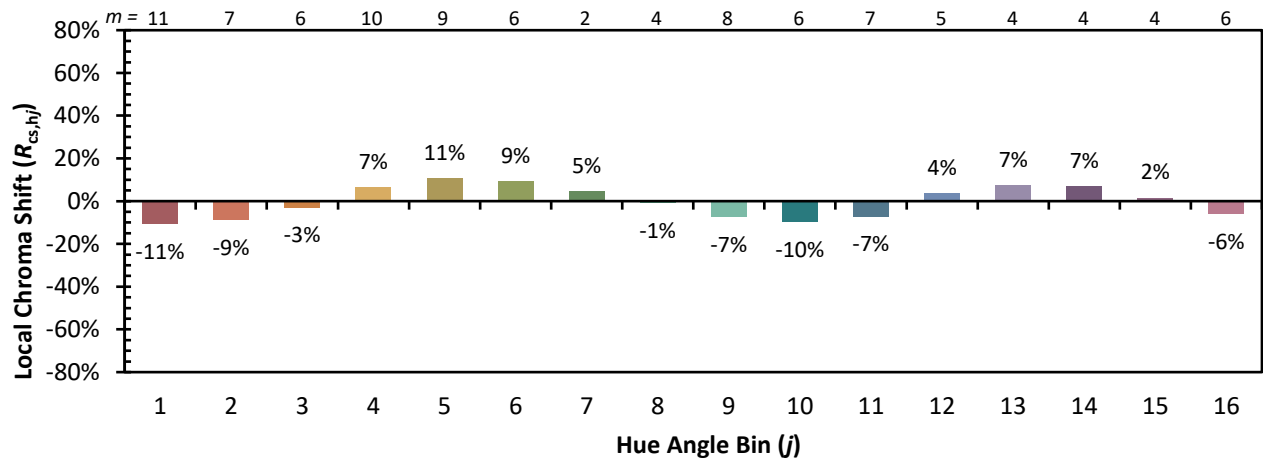


Individual Sample Fidelity Index ($R_{f,i}$)

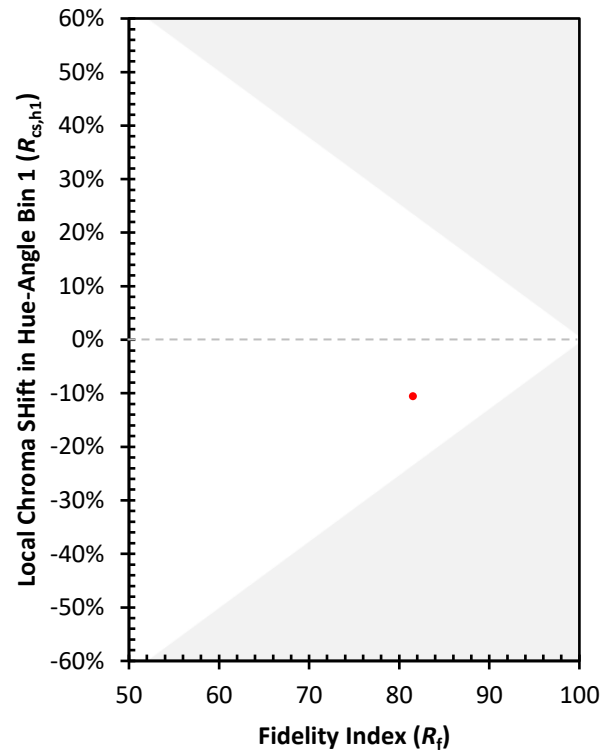
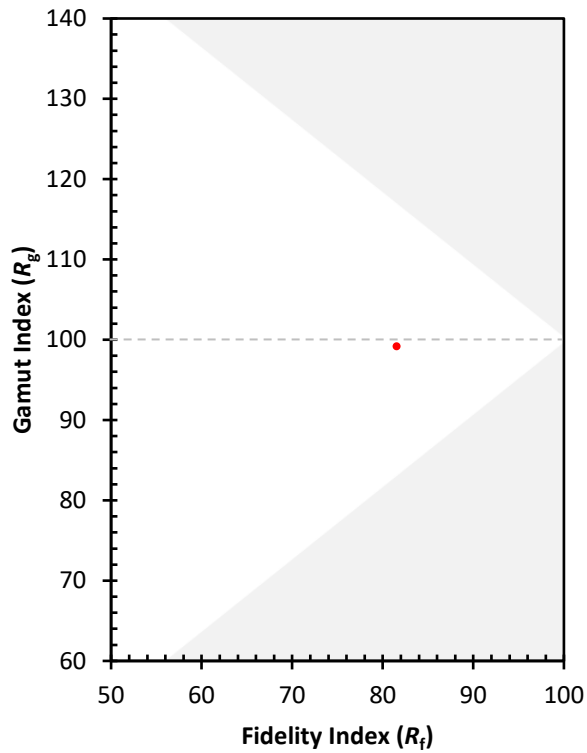
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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