

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: P320476

Luminaire Tested: **GLEON-SA2B-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320476
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-SA2B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8166 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

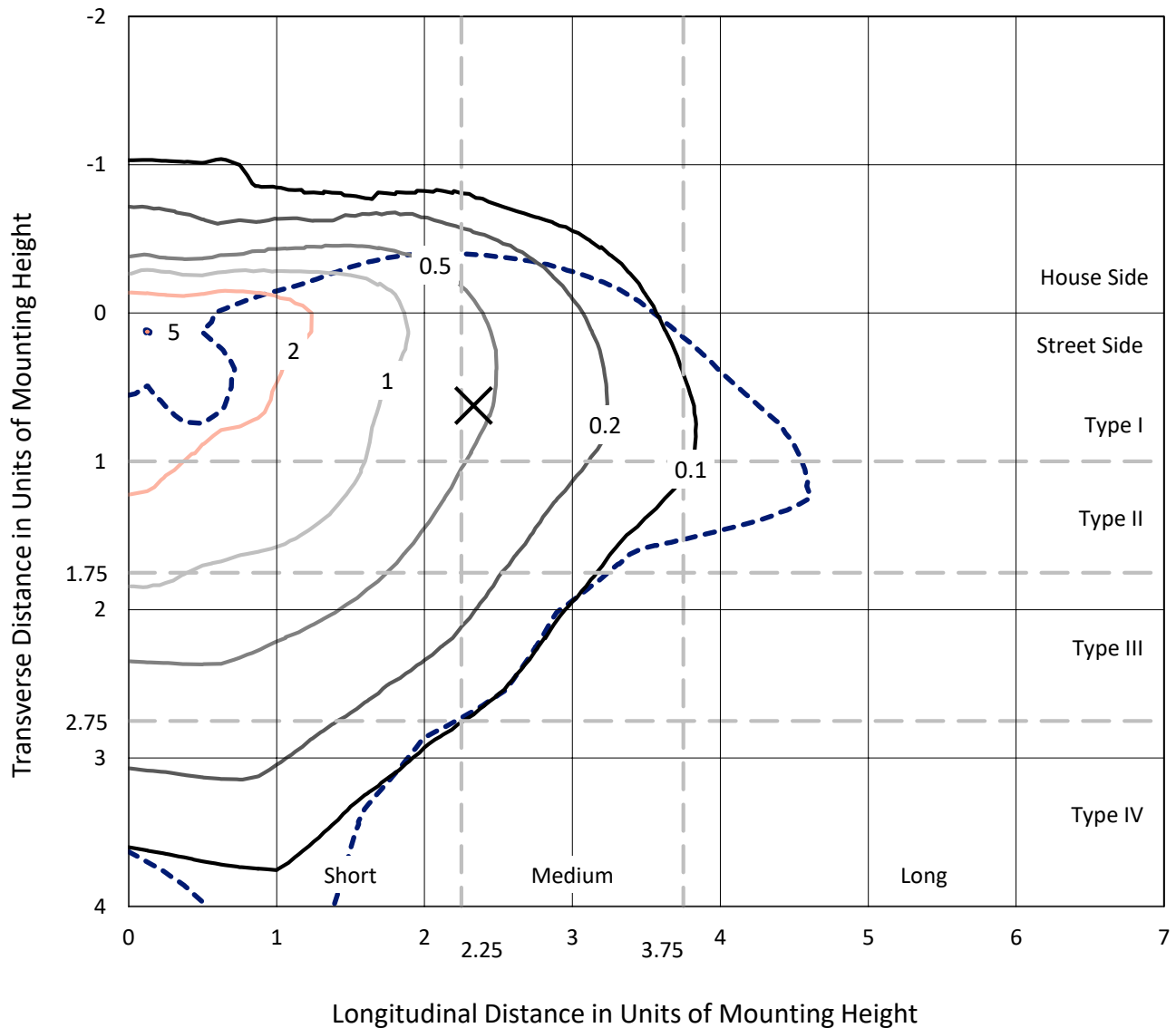
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

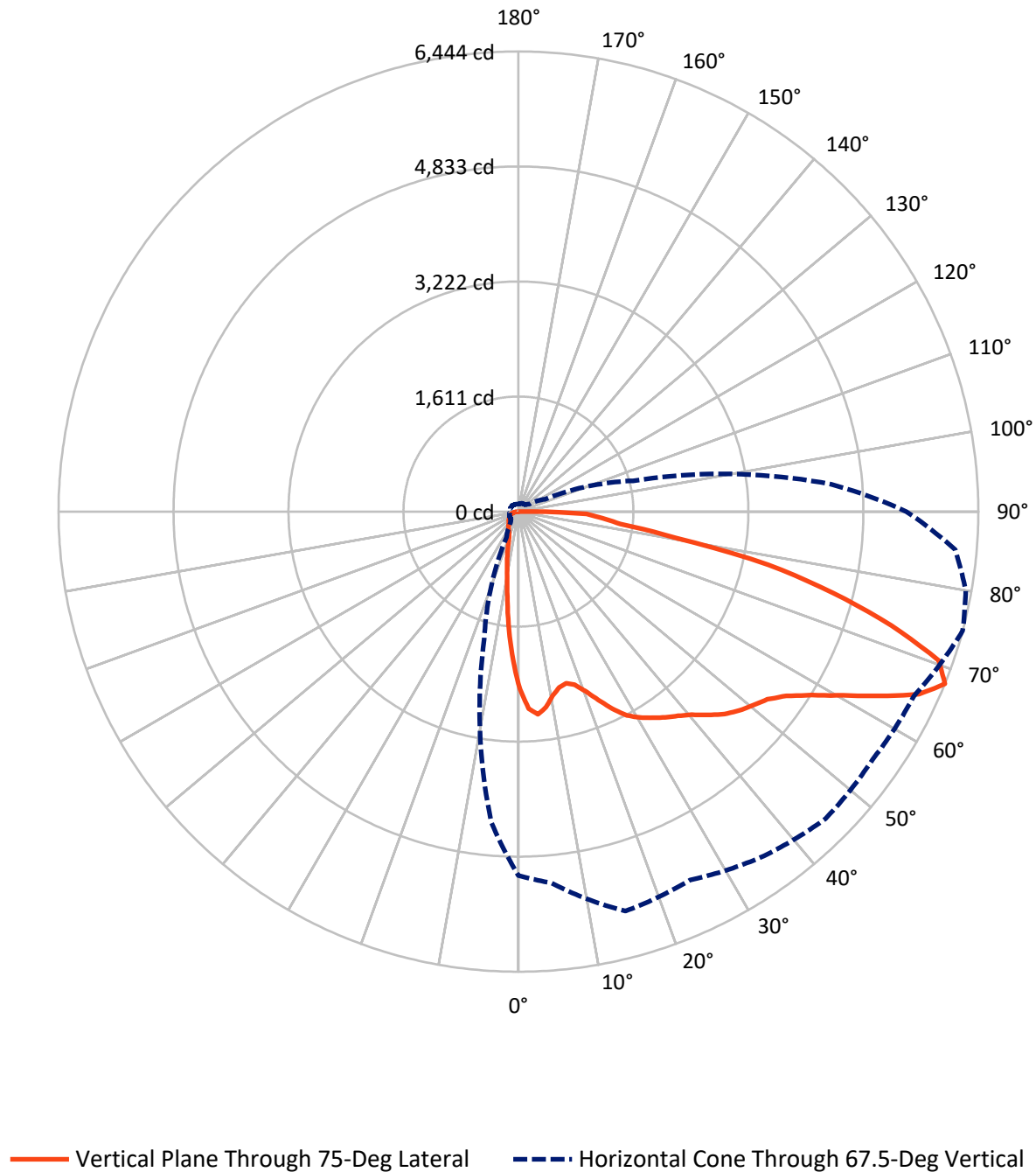
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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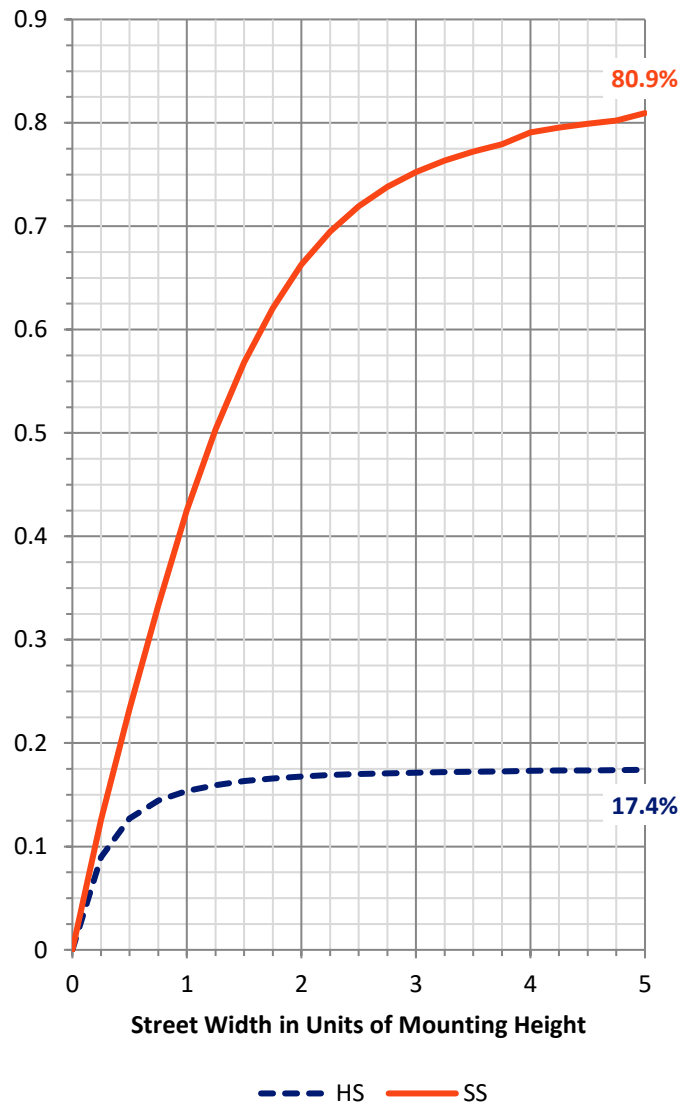
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1438.2	0.0	1438.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	6727.8	0.0	6727.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	8166.0	0.0	8166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	2.4
10°-20°	398.9	4.9
20°-30°	567.3	6.9
30°-40°	817.4	10.0
40°-50°	1152.0	14.1
50°-60°	1601.5	19.6
60°-70°	1936.7	23.7
70°-80°	1190.5	14.6
80°-90°	309.8	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°	8166.0	100.0
0°-180°	8166.0	100.0

Coefficient of Utilization



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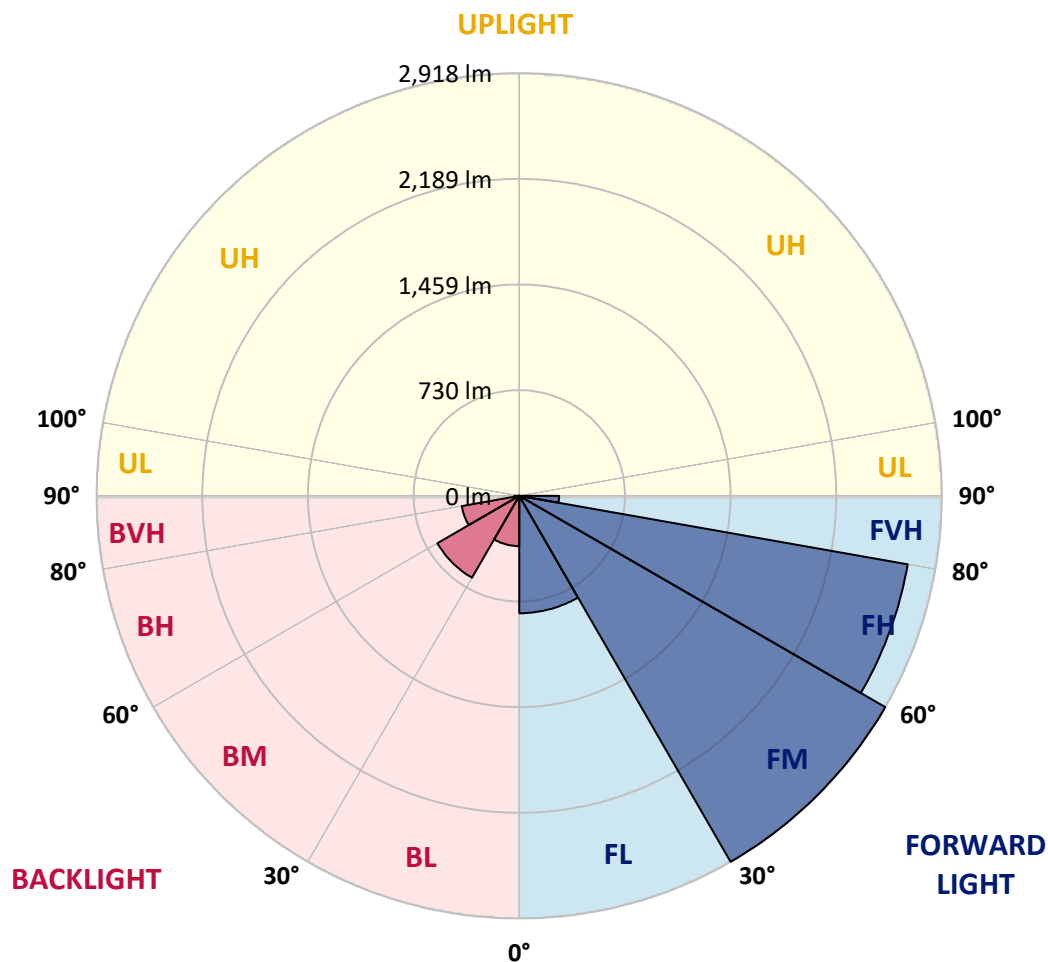
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	810.8	9.9			
FM	(30°-60°)	2918.1	35.7			
FH	(60°-80°)	2723.9	33.4			G2/5000
FVH	(80°-90°)	275.0	3.4			G3/500
BL	(0°-30°)	347.3	4.3	B1/500		
BM	(30°-60°)	652.9	8.0	B1/1000		
BH	(60°-80°)	403.2	4.9	B1/500		G1/500
BVH	(80°-90°)	34.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2651.7	2686.6	2710.8	2734.6	2753.2	2771.5	2798.3	2825.1	2830.3	2835.2	2824.7
5°	2636.0	2721.2	2793.7	2865.9	2932.8	2999.7	3039.9	3080.1	3088.2	3096.4	3071.2
7.5°	2467.2	2592.9	2718.6	2844.3	2959.6	3074.8	3145.0	3214.9	3230.9	3246.6	3205.4
10°	2275.3	2421.5	2576.0	2730.4	2882.2	3034.0	3135.6	3237.1	3257.3	3277.6	3226.3
12.5°	2129.3	2289.0	2453.9	2618.7	2779.0	2939.0	3044.1	3149.3	3174.4	3199.5	3162.3
15°	2073.2	2248.2	2403.3	2558.3	2698.1	2837.5	2923.7	3009.5	3020.0	3030.1	3024.2
17.5°	2129.3	2322.3	2462.7	2602.7	2678.8	2754.5	2789.2	2823.4	2834.9	2846.0	2861.0
20°	2293.6	2501.8	2600.8	2699.4	2696.1	2692.5	2675.9	2658.9	2655.9	2653.0	2695.5
22.5°	2528.0	2769.9	2809.4	2848.6	2756.8	2665.1	2609.3	2553.1	2542.0	2530.6	2575.6
25°	2803.2	3060.8	3053.6	3046.1	2871.4	2696.4	2590.0	2483.6	2471.2	2458.8	2497.3
27.5°	3102.6	3348.7	3301.7	3254.7	3017.4	2780.0	2625.6	2471.2	2458.8	2446.3	2480.3
30°	3336.7	3560.0	3484.6	3409.1	3140.5	2871.8	2688.3	2504.8	2484.5	2464.0	2505.8
32.5°	3534.8	3724.9	3623.6	3522.4	3240.4	2958.3	2759.8	2561.3	2529.6	2497.9	2553.8
35°	3741.2	3889.4	3747.1	3604.4	3329.5	3054.3	2844.3	2634.1	2595.2	2556.4	2633.1
37.5°	3973.3	4096.4	3892.0	3687.3	3429.7	3172.1	2971.0	2769.6	2729.7	2689.9	2787.8
40°	4218.5	4321.0	4048.4	3775.8	3539.4	3303.0	3146.3	2989.3	2951.4	2913.2	3032.1
42.5°	4433.0	4507.8	4194.0	3880.3	3671.6	3462.7	3352.3	3241.7	3241.3	3240.7	3361.2
45°	4594.6	4659.6	4315.5	3971.0	3800.6	3629.9	3572.4	3514.9	3561.0	3607.0	3716.0
47.5°	4728.8	4772.9	4417.3	4061.5	3948.2	3834.9	3843.4	3851.9	3945.6	4039.3	4109.5
50°	4882.2	4846.7	4509.7	4172.5	4137.5	4102.6	4179.0	4255.1	4362.8	4470.2	4517.9
52.5°	5048.4	4954.1	4635.1	4315.8	4355.0	4394.2	4549.6	4705.0	4813.7	4922.4	4940.4
55°	5347.2	5202.5	4865.6	4528.3	4603.8	4678.8	4907.1	5134.9	5219.8	5304.7	5311.2
57.5°	5683.8	5555.5	5188.5	4821.5	4902.5	4983.5	5246.9	5510.1	5601.8	5693.2	5680.5
60°	5813.4	5819.6	5495.1	5170.2	5251.8	5333.4	5590.1	5846.7	5952.1	6057.3	6029.2
62.5°	5682.8	5835.9	5662.5	5488.9	5563.0	5636.8	5888.1	6139.5	6247.6	6355.7	6306.7
65°	5424.5	5576.4	5654.1	5731.8	5756.2	5780.7	6015.5	6249.9	6332.8	6415.4	6390.6
67.5°	5096.1	5218.9	5505.5	5791.8	5742.5	5693.2	5803.3	5913.3	5998.5	6083.7	6069.7
70°	4715.7	4862.0	5244.3	5626.6	5384.4	5141.8	5096.4	5051.0	5143.1	5234.8	5178.0
72.5°	4033.7	4254.4	4662.2	5069.6	4623.3	4177.0	4022.0	3866.9	3983.4	4100.0	4009.6
75°	3046.8	3339.6	3790.2	4240.4	3707.9	3175.4	2968.4	2761.4	2861.6	2961.9	2899.8
77.5°	2118.9	2486.2	2929.9	3373.6	2832.3	2290.6	2136.8	1982.7	2012.8	2042.5	2032.0
80°	1444.7	1686.3	1995.8	2305.0	1944.5	1584.1	1596.2	1607.9	1593.9	1579.5	1600.4
82.5°	906.0	1076.1	1315.1	1553.7	1362.4	1171.1	1280.8	1390.5	1336.6	1282.4	1302.7
85°	510.3	614.1	847.9	1081.3	1007.9	934.1	998.4	1062.4	978.8	895.2	932.1
87.5°	97.3	161.9	469.2	776.1	704.6	633.1	550.1	467.2	356.5	245.8	359.1
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



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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°	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2814.3	2808.7	2803.2	2783.3	2763.0	2733.0	2708.2	2665.1	2641.6	2606.0	2570.4
5°	3045.8	3010.5	2975.3	2914.5	2853.5	2785.6	2707.5	2621.0	2555.7	2470.8	2385.9
7.5°	3164.3	3082.0	2999.4	2882.9	2766.0	2660.8	2537.4	2422.5	2324.6	2214.2	2103.9
10°	3175.1	3051.6	2927.9	2776.4	2624.6	2497.0	2354.9	2227.3	2109.7	1983.1	1856.1
12.5°	3124.8	2993.5	2862.0	2695.1	2528.0	2383.0	2230.2	2087.2	1956.9	1817.5	1677.8
15°	3018.3	2913.5	2808.4	2652.0	2495.6	2349.4	2201.2	2031.7	1884.5	1741.8	1598.8
17.5°	2875.7	2826.0	2776.1	2663.1	2549.8	2423.2	2279.5	2080.7	1908.3	1753.2	1598.1
20°	2737.6	2755.9	2773.8	2728.8	2683.7	2582.2	2456.8	2233.5	2013.4	1810.7	1607.6
22.5°	2620.4	2708.2	2795.7	2830.6	2865.2	2804.2	2706.2	2448.0	2156.8	1892.0	1627.2
25°	2535.5	2681.1	2826.7	2942.9	3058.8	3031.7	2956.3	2708.5	2346.8	2009.2	1671.3
27.5°	2514.3	2692.8	2871.4	3051.6	3231.5	3256.7	3235.8	2983.1	2573.3	2154.8	1735.9
30°	2547.6	2728.4	2909.0	3128.4	3347.4	3447.7	3475.8	3212.0	2832.3	2324.6	1816.6
32.5°	2609.6	2786.9	2964.2	3203.1	3441.8	3593.3	3682.7	3421.2	3012.8	2452.5	1892.0
35°	2709.8	2875.7	3041.5	3290.3	3539.1	3735.0	3898.2	3637.4	3173.1	2542.0	1910.6
37.5°	2885.5	3028.1	3170.8	3400.7	3630.2	3884.2	4129.4	3875.4	3346.5	2628.2	1909.6
40°	3150.9	3251.8	3352.3	3546.6	3740.5	4060.2	4391.2	4140.8	3538.1	2721.6	1905.0
42.5°	3481.6	3533.5	3585.1	3738.9	3892.7	4244.0	4628.9	4400.4	3720.9	2808.4	1895.9
45°	3824.8	3838.5	3852.2	3949.2	4045.8	4389.6	4790.8	4595.3	3880.6	2883.8	1886.8
47.5°	4179.3	4132.3	4085.3	4123.8	4162.3	4501.2	4906.4	4743.2	4040.9	2967.4	1893.6
50°	4565.6	4434.6	4303.7	4283.5	4263.2	4612.9	5042.5	4931.2	4233.5	3089.2	1944.9
52.5°	4958.0	4742.2	4526.4	4446.4	4366.1	4746.1	5223.1	5165.3	4508.4	3277.9	2047.1
55°	5317.8	5043.2	4768.6	4660.9	4553.1	4949.8	5443.5	5509.1	4860.7	3519.2	2177.3
57.5°	5667.4	5356.3	5045.2	4945.3	4845.4	5249.2	5722.6	5817.6	5216.6	3750.7	2284.4
60°	6001.1	5693.2	5385.0	5305.0	5224.7	5621.4	6024.3	5955.1	5400.0	3859.0	2317.7
62.5°	6257.7	6012.9	5768.0	5725.9	5683.4	5997.8	6256.1	5901.5	5283.5	3752.3	2221.1
65°	6365.8	6226.4	6086.6	6126.2	6165.3	6282.5	6313.9	5744.8	4917.2	3453.2	1989.3
67.5°	6055.3	6083.7	6112.1	6278.0	6443.5	6362.9	6142.1	5436.0	4395.8	3029.4	1663.1
70°	5120.9	5291.3	5461.4	5853.9	6246.0	6067.1	5682.1	4881.6	3768.3	2541.4	1314.1
72.5°	3918.8	4110.4	4301.8	4884.2	5466.3	5301.5	4830.0	4009.6	3021.3	2029.4	1037.2
75°	2837.5	3053.9	3270.1	3912.6	4555.1	4326.2	3612.9	2870.8	2294.9	1549.2	803.2
77.5°	2021.3	2166.2	2311.2	2945.9	3580.2	3207.4	2404.9	1931.8	1588.3	1076.7	564.8
80°	1621.3	1576.9	1532.5	1886.1	2239.7	2177.7	1590.6	1240.6	1099.3	721.5	343.8
82.5°	1322.6	1214.2	1105.8	1272.3	1438.8	1429.7	1103.8	910.2	818.2	501.5	184.8
85°	968.7	925.3	881.8	1029.1	1176.3	1050.6	747.6	578.5	638.0	369.3	100.6
87.5°	472.4	539.7	606.6	780.3	953.7	716.0	226.9	112.3	155.4	102.2	48.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320476
 CATALOG NUMBER: GLEON-SA2B-830-U-SLL

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: P320476

CATALOG NUMBER: GLEON-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2544.0	2517.2	2486.8	2456.5	2421.9	2386.9	2366.4	2345.5	2322.9	2300.4	2274.9
5°	2329.8	2273.6	2210.0	2146.3	2083.3	2020.3	1986.3	1952.4	1916.5	1880.2	1848.9
7.5°	2022.2	1940.3	1852.1	1763.7	1685.3	1606.6	1558.0	1509.0	1464.6	1419.9	1382.3
10°	1751.6	1647.1	1558.6	1469.8	1410.7	1351.6	1306.9	1262.2	1219.1	1175.7	1134.2
12.5°	1573.3	1468.9	1412.7	1356.5	1307.6	1258.6	1207.0	1155.1	1096.0	1036.6	993.2
15°	1503.8	1408.8	1346.4	1283.7	1218.1	1152.2	1088.8	1025.5	955.6	885.8	836.5
17.5°	1473.8	1349.4	1262.2	1174.7	1088.2	1001.7	928.2	854.7	778.3	701.9	652.0
20°	1442.1	1276.6	1159.7	1042.5	931.5	820.5	737.2	653.9	585.7	517.5	479.3
22.5°	1413.4	1199.2	1052.6	905.7	774.4	643.2	561.6	479.6	437.8	396.0	380.7
25°	1401.6	1131.6	951.4	771.2	632.7	494.0	435.9	377.7	361.7	345.4	337.6
27.5°	1403.6	1071.2	866.2	660.8	536.1	411.4	371.5	331.7	321.9	311.8	306.9
30°	1411.1	1005.6	785.8	566.1	463.3	360.4	334.6	308.5	298.1	287.6	281.4
32.5°	1419.6	946.8	723.8	500.5	416.6	332.4	311.1	289.6	279.5	269.3	263.1
35°	1404.9	898.8	681.4	463.9	386.6	308.9	290.9	272.6	261.5	250.4	244.5
37.5°	1380.0	850.5	648.4	446.0	367.0	287.6	274.6	261.2	249.8	238.0	232.5
40°	1357.5	809.7	623.9	437.8	356.2	274.2	263.1	252.0	240.3	228.2	221.7
42.5°	1339.2	782.3	599.8	417.2	346.4	275.2	259.6	243.6	232.1	220.7	213.5
45°	1325.5	764.3	580.8	397.3	337.3	277.2	257.3	237.4	225.9	214.2	205.7
47.5°	1324.2	754.8	567.4	380.0	320.0	259.6	251.4	243.2	226.6	209.6	199.8
50°	1342.2	739.5	551.8	363.7	303.3	242.9	254.0	264.8	236.4	207.6	195.2
52.5°	1379.7	712.4	526.9	341.5	283.1	224.3	241.6	258.6	234.1	209.3	193.3
55°	1425.1	672.6	489.4	305.9	256.3	206.3	221.7	236.7	221.4	205.7	186.4
57.5°	1453.5	622.3	442.1	261.8	226.3	190.7	199.5	208.0	201.8	195.6	176.0
60°	1436.5	555.3	388.8	222.0	199.8	177.6	176.0	174.0	183.2	192.3	169.8
62.5°	1353.6	486.1	341.8	197.5	180.9	163.9	160.3	156.4	171.4	186.1	162.3
65°	1213.5	437.8	312.1	186.4	167.8	149.2	145.3	141.4	145.9	150.5	139.4
67.5°	1035.6	408.1	295.1	182.2	159.7	136.8	132.2	127.7	126.7	125.7	121.8
70°	852.1	389.8	284.0	178.3	150.8	123.1	118.8	114.6	113.3	111.7	108.7
72.5°	712.4	387.5	282.7	177.9	143.7	109.4	105.5	101.5	99.9	97.9	95.7
75°	583.4	363.7	268.4	173.0	133.9	94.4	90.8	87.2	85.9	84.2	82.3
77.5°	432.9	301.0	225.6	150.2	114.6	79.0	75.4	71.5	71.2	70.5	68.9
80°	280.8	217.8	161.3	104.8	83.6	62.0	59.1	55.8	56.2	56.5	55.2
82.5°	156.1	127.0	98.6	70.2	57.1	44.1	42.8	41.1	42.1	42.8	41.1
85°	82.3	64.0	52.9	41.8	33.0	24.2	24.2	23.8	25.1	26.4	25.1
87.5°	35.6	22.5	19.3	15.7	8.8	1.6	2.0	2.0	2.6	3.3	2.9
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: P320476
 CATALOG NUMBER: GLEON-SA2B-830-U-SLL

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: P320476

CATALOG NUMBER: GLEON-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2249.2	2225.3	2201.2	2174.7	2179.6	2159.4	2139.1	2126.4	2113.7	2109.7	2105.8
5°	1817.5	1790.4	1763.0	1738.5	1759.8	1745.4	1731.0	1729.1	1726.8	1726.8	1726.4
7.5°	1344.8	1315.7	1286.3	1266.1	1287.0	1284.4	1281.8	1295.8	1309.9	1321.3	1332.4
10°	1092.7	1057.5	1021.9	991.9	986.6	971.6	956.3	959.5	962.5	974.9	987.3
12.5°	949.7	907.6	865.5	830.2	814.3	789.4	764.3	748.6	733.0	734.6	735.9
15°	786.8	746.0	704.9	674.5	664.4	645.1	625.9	606.3	586.4	578.2	569.7
17.5°	601.7	569.1	536.1	515.8	515.8	510.3	504.7	495.0	484.8	476.7	468.2
20°	441.1	423.8	406.1	397.7	400.3	400.6	400.6	405.5	410.4	407.8	405.2
22.5°	365.0	358.8	352.6	349.0	350.3	350.6	351.0	355.5	359.8	363.1	366.0
25°	329.4	325.5	321.6	320.3	323.2	323.5	323.5	326.5	329.4	332.7	336.0
27.5°	301.7	300.0	298.4	296.1	299.1	299.1	298.7	302.0	304.9	307.9	310.5
30°	275.2	275.9	276.2	275.6	277.5	278.8	279.8	282.1	284.0	286.3	288.6
32.5°	256.6	255.6	254.7	254.0	258.2	260.5	262.8	265.1	267.1	268.0	269.0
35°	238.7	236.4	234.1	232.5	236.4	239.3	242.3	246.5	250.4	251.1	251.7
37.5°	226.6	223.6	220.7	218.7	220.4	221.7	223.0	227.6	232.1	234.7	237.0
40°	215.2	212.2	209.3	207.6	208.6	208.9	209.3	211.6	213.5	218.4	223.0
42.5°	206.0	202.4	198.8	196.9	197.5	198.2	198.5	198.2	197.8	202.4	207.0
45°	196.9	193.0	189.0	186.7	187.1	187.1	187.1	186.4	185.4	187.7	190.0
47.5°	189.7	185.1	180.5	178.3	177.6	177.0	176.3	176.0	175.3	177.0	178.3
50°	182.5	177.6	172.4	169.8	168.1	167.5	166.8	166.5	165.9	167.5	168.8
52.5°	177.0	171.1	165.2	161.0	159.3	158.3	157.4	157.7	157.7	158.3	158.7
55°	167.2	161.9	156.4	153.4	150.5	149.9	149.2	150.2	150.8	150.8	150.8
57.5°	156.4	151.5	146.3	144.3	141.7	141.7	141.4	142.7	143.7	144.3	145.0
60°	146.9	141.4	135.8	134.2	133.2	132.9	132.6	134.2	135.5	136.8	138.1
62.5°	138.1	132.2	126.3	124.4	124.1	124.4	124.4	126.0	127.3	128.6	129.9
65°	128.3	122.4	116.2	114.3	114.9	115.9	116.9	118.2	119.2	120.5	121.8
67.5°	117.5	112.6	107.4	105.5	105.8	107.1	108.4	109.4	110.0	111.3	112.6
70°	105.8	101.5	97.3	96.0	95.7	97.3	98.6	99.3	99.9	101.5	102.8
72.5°	93.0	89.5	85.9	84.9	85.2	86.2	87.2	88.2	88.8	90.4	91.7
75°	80.0	76.7	73.5	72.8	73.5	74.4	75.4	76.1	76.7	78.7	80.3
77.5°	67.3	63.7	59.7	59.4	60.4	61.4	62.0	63.0	64.0	66.6	69.2
80°	53.9	50.0	45.7	45.4	46.4	47.3	48.3	49.3	50.3	53.5	56.5
82.5°	39.5	34.9	30.4	29.7	33.0	34.0	34.9	36.6	37.9	40.8	43.7
85°	23.8	19.3	14.7	14.4	17.3	18.9	20.6	22.5	24.2	26.8	29.4
87.5°	2.6	1.3	0.0	0.0	0.3	1.6	2.9	4.6	6.2	8.8	11.1
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: P320476
 CATALOG NUMBER: GLEON-SA2B-830-U-SLL

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: P320476

CATALOG NUMBER: GLEON-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2091.5	2076.8	2091.8	2106.5	2112.7	2118.9	2102.9	2086.6	2112.0	2137.2	2143.7
5°	1713.4	1700.0	1710.1	1719.9	1698.0	1676.2	1673.9	1671.3	1690.2	1709.1	1712.1
7.5°	1328.1	1323.9	1333.4	1342.8	1315.1	1287.0	1273.3	1259.6	1264.1	1268.7	1268.1
10°	990.2	992.8	1004.6	1016.0	994.5	972.9	963.5	954.0	964.4	974.6	984.0
12.5°	741.8	747.3	759.7	771.8	763.0	753.9	754.8	755.8	767.9	779.6	790.1
15°	576.2	582.8	591.6	600.1	600.4	600.4	608.9	617.1	616.1	615.1	622.3
17.5°	477.0	485.5	486.5	487.4	487.8	488.1	487.4	486.8	481.9	477.0	482.5
20°	408.4	411.4	414.0	416.3	413.3	410.1	401.9	393.7	390.5	387.2	392.4
22.5°	371.5	376.8	374.2	371.2	365.3	359.1	352.9	346.4	346.1	345.4	348.4
25°	340.5	344.8	340.2	335.6	331.4	327.1	322.9	318.6	318.3	318.0	319.3
27.5°	314.7	318.6	314.4	310.2	306.6	303.0	299.7	296.4	295.8	295.1	295.5
30°	292.5	296.1	292.5	288.6	286.0	283.1	280.8	278.5	278.2	277.8	277.8
32.5°	272.6	276.2	273.6	271.0	268.7	266.4	264.8	263.1	261.5	259.9	256.3
35°	255.3	258.9	257.3	255.3	252.7	250.1	247.1	243.9	239.6	235.1	233.1
37.5°	240.6	244.2	242.6	240.9	237.4	233.8	228.5	223.0	221.7	220.1	219.7
40°	228.9	234.4	231.2	227.6	222.0	216.5	213.8	211.2	210.6	209.9	209.3
42.5°	215.8	224.3	218.4	212.5	207.3	202.1	201.4	200.8	200.5	200.1	200.1
45°	199.5	208.6	202.7	196.5	193.6	190.7	190.7	190.7	191.0	191.0	191.6
47.5°	184.1	189.7	186.7	183.8	182.2	180.5	180.9	181.2	182.2	182.8	184.5
50°	171.1	173.0	173.7	174.0	173.0	172.1	172.7	173.0	174.0	174.7	176.0
52.5°	161.6	164.5	164.5	164.2	164.2	164.2	164.9	165.5	166.5	167.5	168.8
55°	155.4	159.7	158.3	157.0	157.4	157.4	158.0	158.7	159.7	160.3	162.3
57.5°	149.5	154.1	152.8	151.5	151.5	151.5	151.8	152.1	153.1	153.8	155.1
60°	142.7	147.2	145.9	144.3	144.6	145.0	145.3	145.3	145.9	146.3	146.3
62.5°	134.5	139.1	137.8	136.1	137.1	137.8	137.8	137.8	138.4	138.8	137.8
65°	126.0	130.3	129.0	127.7	129.0	129.9	130.6	130.9	130.6	130.3	129.3
67.5°	116.9	121.1	119.8	118.2	119.8	121.1	122.4	123.4	122.4	121.5	120.1
70°	107.1	111.3	109.7	108.1	109.7	111.3	112.6	113.9	112.6	111.3	111.0
72.5°	96.6	101.5	99.6	97.6	99.6	101.5	102.2	102.8	101.9	100.9	100.2
75°	85.2	90.1	88.5	86.5	88.2	89.8	90.1	90.4	90.4	90.1	88.2
77.5°	73.1	77.1	76.1	75.1	76.1	77.1	77.1	77.1	77.4	77.4	74.8
80°	58.8	61.1	61.4	61.7	62.0	62.4	62.0	61.7	61.1	60.4	58.8
82.5°	43.7	43.7	46.4	48.6	48.6	48.3	48.0	47.3	46.0	44.4	40.8
85°	27.8	26.1	30.4	34.3	34.3	34.0	33.3	32.3	29.7	26.8	23.8
87.5°	9.5	7.8	12.1	16.3	16.7	16.7	16.0	15.3	12.7	9.8	7.5
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: P320476

CATALOG NUMBER: GLEON-SA2B-830-U-SLL

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: P320476

CATALOG NUMBER: GLEON-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2153.5	2157.7	2161.7	2193.6	2225.3	2262.5	2299.8	2328.2	2356.2	2385.3	2414.4
5°	1722.2	1727.4	1732.7	1771.5	1810.0	1861.9	1913.9	1958.6	2003.3	2055.9	2108.4
7.5°	1276.6	1288.0	1299.1	1340.5	1381.7	1437.5	1493.0	1551.5	1609.6	1678.1	1746.7
10°	1002.6	1024.2	1045.4	1087.8	1130.3	1185.5	1240.3	1301.4	1362.4	1430.0	1497.3
12.5°	811.6	840.4	868.8	919.7	970.6	1036.6	1102.2	1170.1	1237.7	1297.1	1356.5
15°	641.2	672.6	703.6	757.4	811.3	883.8	955.9	1030.1	1103.8	1175.0	1246.2
17.5°	500.2	526.0	551.4	597.1	642.5	712.7	782.9	860.6	938.3	1025.2	1111.7
20°	403.5	414.3	425.1	458.1	490.7	547.8	604.6	684.0	763.3	867.1	971.0
22.5°	353.6	359.1	364.4	380.4	396.0	432.9	469.5	539.7	609.5	722.8	835.8
25°	323.5	327.8	332.0	342.5	352.9	370.6	388.2	437.5	486.8	598.1	709.1
27.5°	296.4	303.0	309.2	314.1	318.6	330.7	342.5	374.8	407.1	510.9	614.4
30°	276.9	279.1	281.4	288.9	296.1	308.5	320.9	343.5	366.0	453.8	541.3
32.5°	254.0	257.3	260.5	268.4	276.2	287.6	299.1	317.3	335.3	410.4	485.2
35°	233.4	236.7	240.0	247.8	255.3	267.7	279.8	295.1	310.2	375.5	440.8
37.5°	220.7	224.0	227.2	234.1	240.6	253.0	265.1	277.2	288.9	349.3	409.7
40°	209.9	213.2	216.5	223.0	229.2	241.3	253.0	263.1	273.3	329.7	386.2
42.5°	200.5	204.1	207.6	214.2	220.4	231.2	241.9	255.3	268.4	312.8	356.8
45°	192.6	196.2	199.5	206.7	213.8	224.3	234.7	253.4	272.0	304.0	336.0
47.5°	185.4	189.4	193.0	200.8	208.6	221.7	234.4	250.1	265.4	297.1	328.8
50°	178.6	183.2	187.7	197.2	206.3	228.2	249.8	252.0	254.0	291.6	328.8
52.5°	172.1	177.3	182.5	194.3	205.7	231.2	256.6	248.5	240.0	281.1	322.2
55°	165.5	170.1	174.3	188.7	203.1	221.7	240.3	229.5	218.4	261.5	304.6
57.5°	156.7	161.6	166.2	181.5	196.9	209.9	222.7	212.9	202.7	239.3	275.6
60°	147.6	153.1	158.7	178.3	197.5	195.2	192.6	190.7	188.4	214.5	240.6
62.5°	139.4	145.3	151.2	176.6	202.1	186.4	170.8	172.4	173.7	193.0	212.2
65°	131.2	137.1	142.7	155.4	168.1	161.9	155.7	158.3	160.6	179.6	198.5
67.5°	122.1	127.3	132.2	136.5	140.7	141.4	142.0	144.6	147.2	169.8	192.0
70°	112.0	116.2	120.5	123.4	126.0	127.3	128.3	131.6	134.8	159.3	183.8
72.5°	100.6	104.1	107.4	110.0	112.6	113.6	114.3	117.5	120.8	146.9	173.0
75°	88.2	91.1	93.7	96.0	98.3	99.6	100.9	103.2	105.5	133.9	161.9
77.5°	74.4	77.4	80.0	81.9	83.6	84.9	85.9	88.8	91.7	115.6	139.1
80°	58.1	61.7	65.0	66.6	67.9	68.2	68.2	70.8	73.5	90.4	107.1
82.5°	41.1	45.1	48.6	50.0	51.3	51.3	51.3	54.2	57.1	68.6	79.7
85°	24.2	28.4	32.3	33.6	34.9	35.6	35.9	37.2	38.2	46.4	54.2
87.5°	7.5	11.1	14.4	15.0	15.7	17.0	18.3	18.6	18.6	24.2	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320476
 CATALOG NUMBER: GLEON-SA2B-830-U-SLL

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: P320476

CATALOG NUMBER: GLEON-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2447.7	2481.0	2519.8	2558.3	2591.3	2624.3	2651.7
5°	2175.4	2242.3	2324.2	2405.9	2478.7	2551.5	2636.0
7.5°	1833.2	1919.7	2025.8	2131.9	2234.8	2337.3	2467.2
10°	1585.4	1673.2	1785.5	1897.5	2013.1	2128.4	2275.3
12.5°	1428.0	1499.2	1607.9	1716.7	1852.5	1988.0	2129.3
15°	1324.2	1401.9	1507.7	1613.5	1762.0	1910.6	2073.2
17.5°	1213.5	1315.1	1450.6	1586.1	1762.0	1937.7	2129.3
20°	1097.6	1224.0	1399.6	1575.3	1812.3	2049.0	2293.6
22.5°	982.1	1128.3	1353.6	1578.6	1888.4	2197.9	2528.0
25°	877.9	1046.7	1325.5	1604.0	1999.1	2393.8	2803.2
27.5°	798.9	983.0	1314.1	1644.8	2139.5	2634.1	3102.6
30°	728.7	916.1	1300.4	1684.7	2274.6	2864.2	3336.7
32.5°	668.0	850.8	1273.9	1696.7	2369.0	3041.2	3534.8
35°	620.3	799.9	1229.5	1659.2	2428.1	3196.9	3741.2
37.5°	579.2	748.6	1178.9	1609.2	2480.6	3352.0	3973.3
40°	540.0	693.8	1135.5	1576.9	2553.1	3529.3	4218.5
42.5°	502.8	648.7	1100.6	1552.4	2620.4	3688.0	4433.0
45°	475.0	614.1	1069.6	1524.7	2663.8	3802.9	4594.6
47.5°	461.3	593.5	1052.9	1511.9	2707.2	3902.1	4728.8
50°	459.4	590.0	1071.8	1553.7	2801.2	4048.4	4882.2
52.5°	459.0	595.8	1126.4	1656.9	2975.9	4294.6	5048.4
55°	452.2	599.4	1191.3	1782.9	3210.3	4637.4	5347.2
57.5°	431.3	587.0	1258.3	1929.2	3458.1	4986.7	5683.8
60°	399.0	557.0	1313.4	2069.6	3624.6	5179.3	5813.4
62.5°	358.5	504.4	1331.7	2158.7	3620.1	5081.4	5682.8
65°	323.9	449.2	1271.7	2093.7	3436.9	4779.7	5424.5
67.5°	293.2	394.1	1121.5	1848.6	3107.5	4366.1	5096.1
70°	271.0	357.8	927.9	1497.9	2695.1	3892.0	4715.7
72.5°	256.9	340.5	756.5	1172.1	2187.1	3201.8	4033.7
75°	237.7	313.4	593.5	873.3	1673.9	2474.4	3046.8
77.5°	201.8	264.1	447.3	630.4	1228.2	1825.7	2118.9
80°	155.7	204.1	307.5	411.0	845.3	1279.5	1444.7
82.5°	111.0	142.3	186.4	230.5	561.6	892.3	906.0
85°	68.6	82.9	106.8	130.6	371.5	612.5	510.3
87.5°	36.9	44.1	56.5	68.6	118.8	169.1	97.3
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: P320476
 CATALOG NUMBER: GLEON-SA2B-830-U-SLL

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.

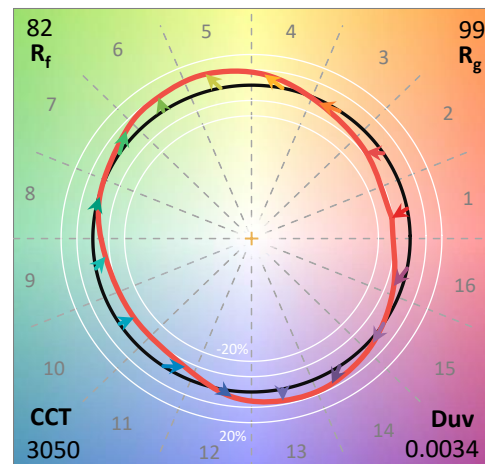
Test Information

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
 R_f: 81.5
 R_g: 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

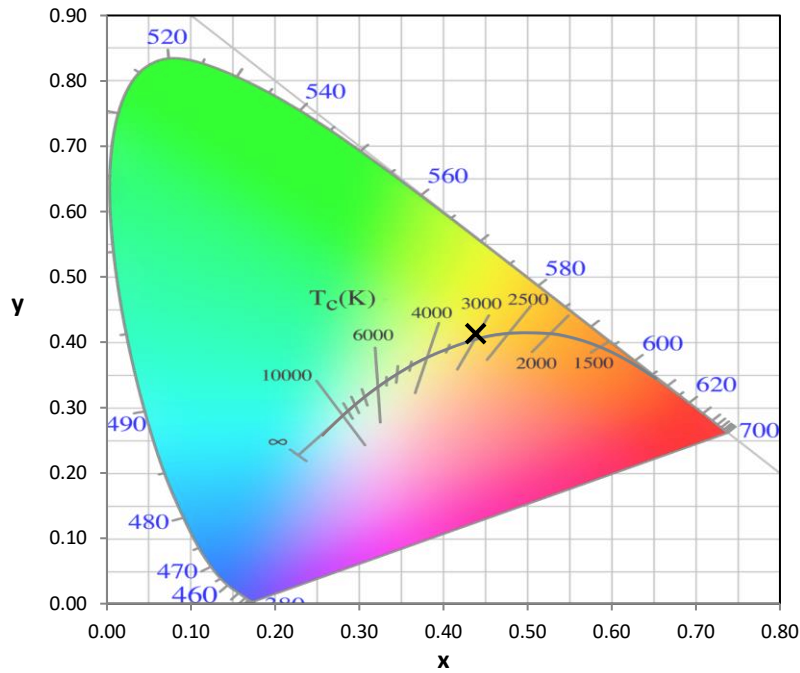
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

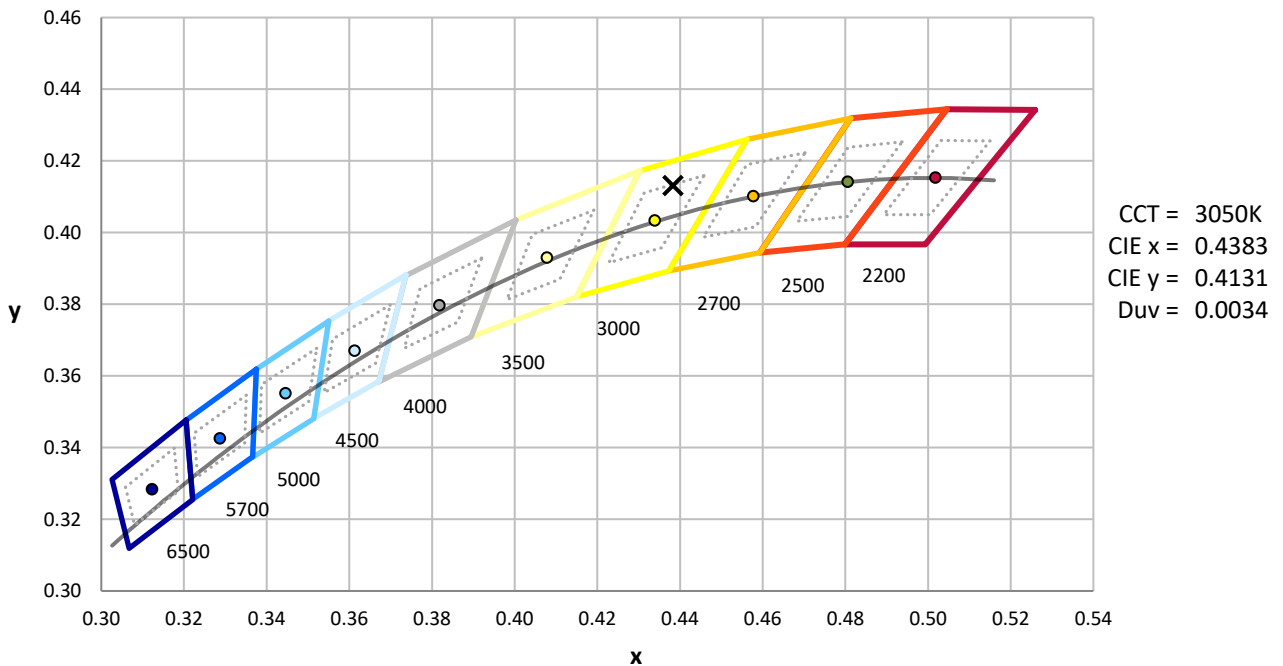
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



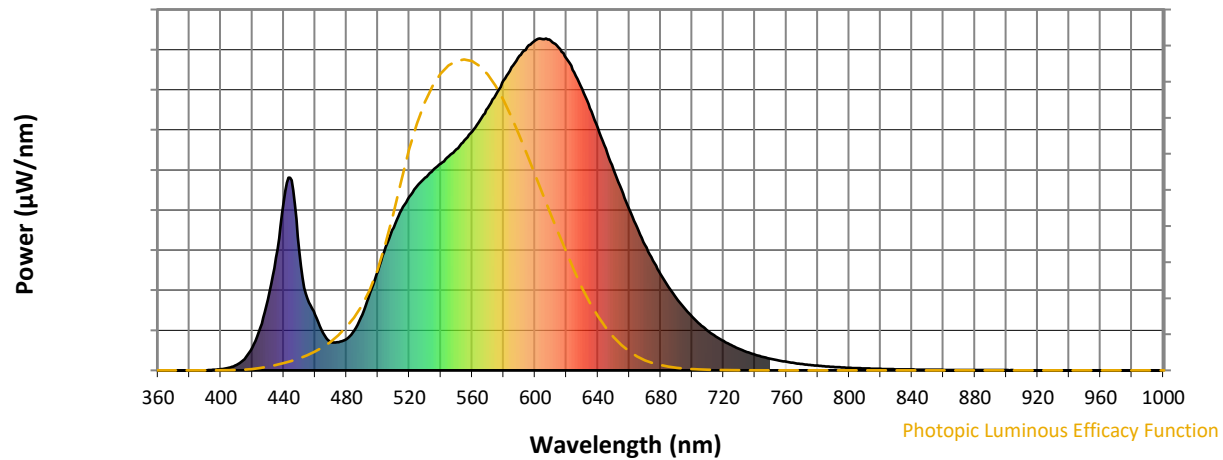
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

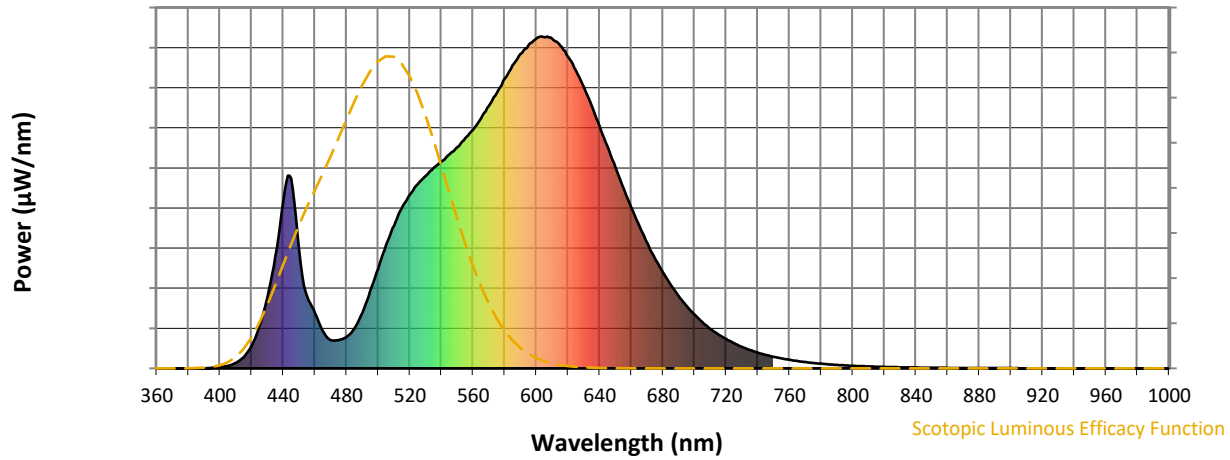


Photopic Lumens: NR

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

Scotopic Flux vs. Wavelength



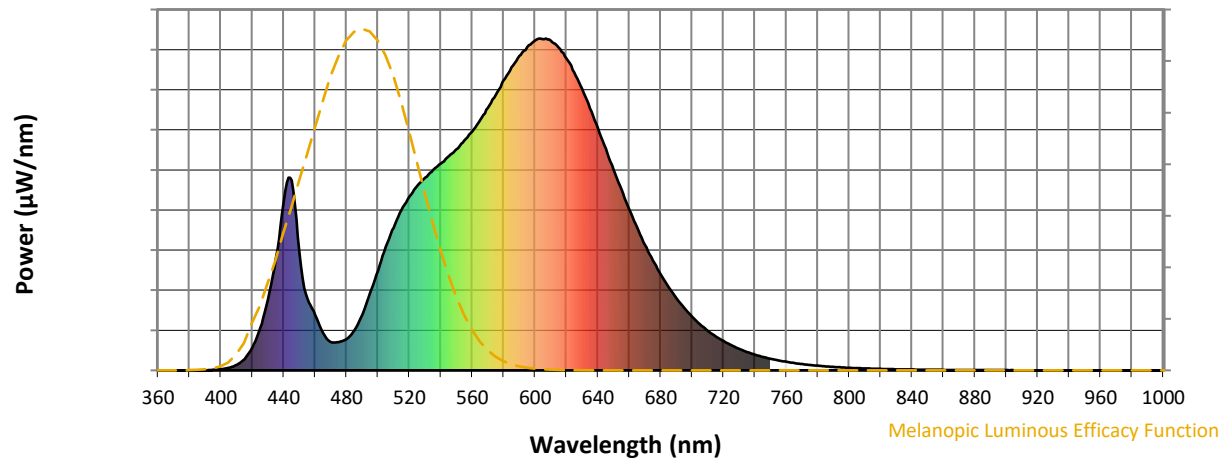
Scotopic Lumens: NR

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

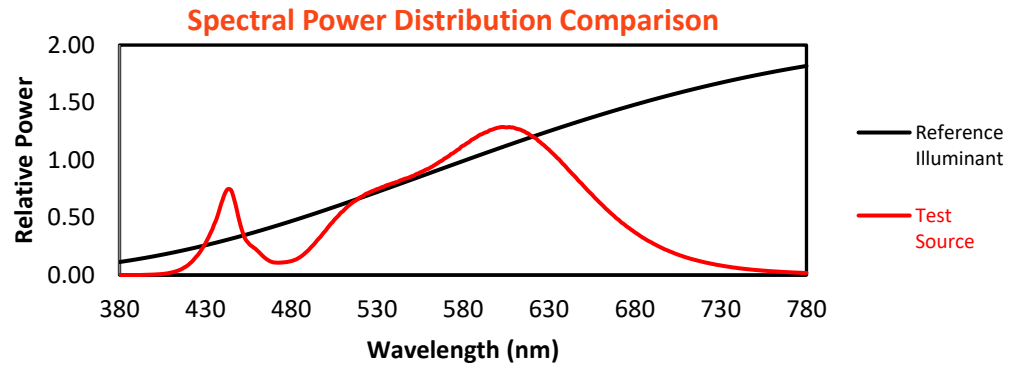
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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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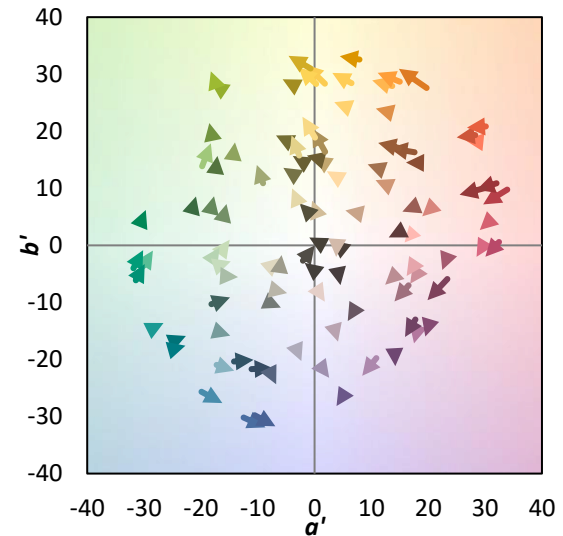
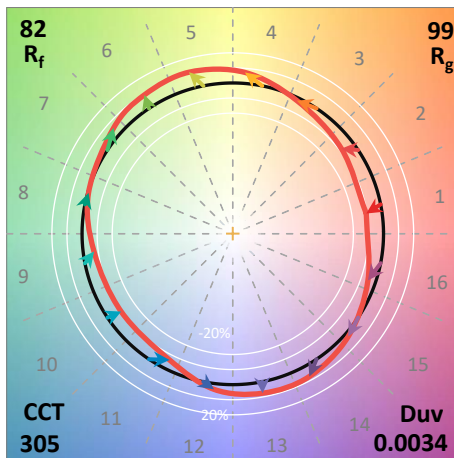
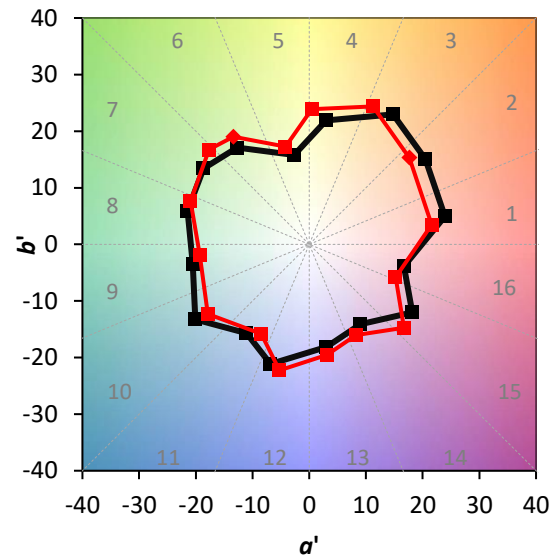
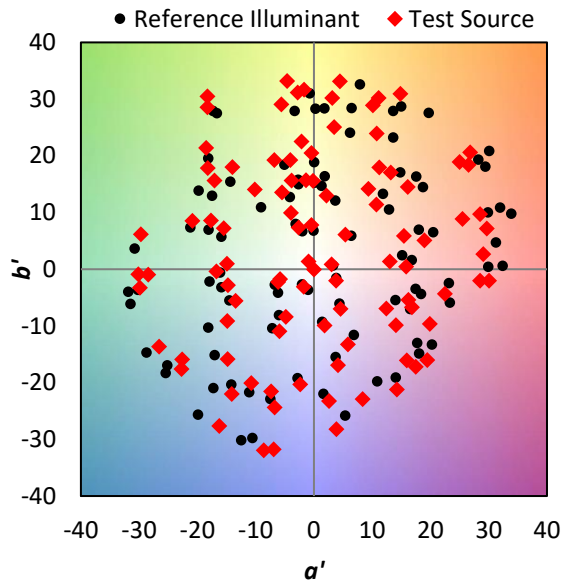
TM-30-18

Summary

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

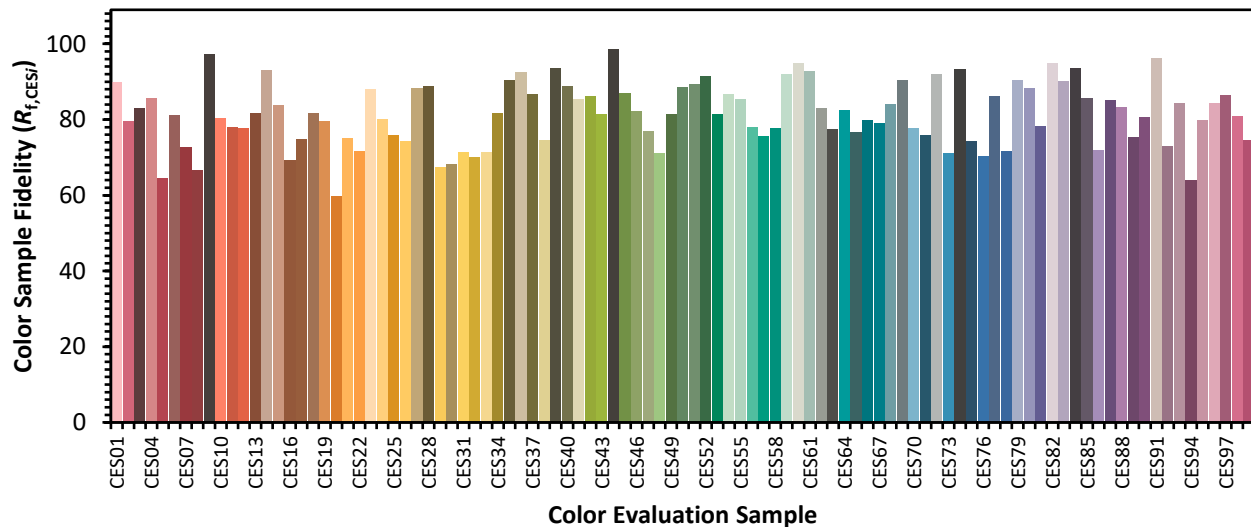


Color Vector Graphics

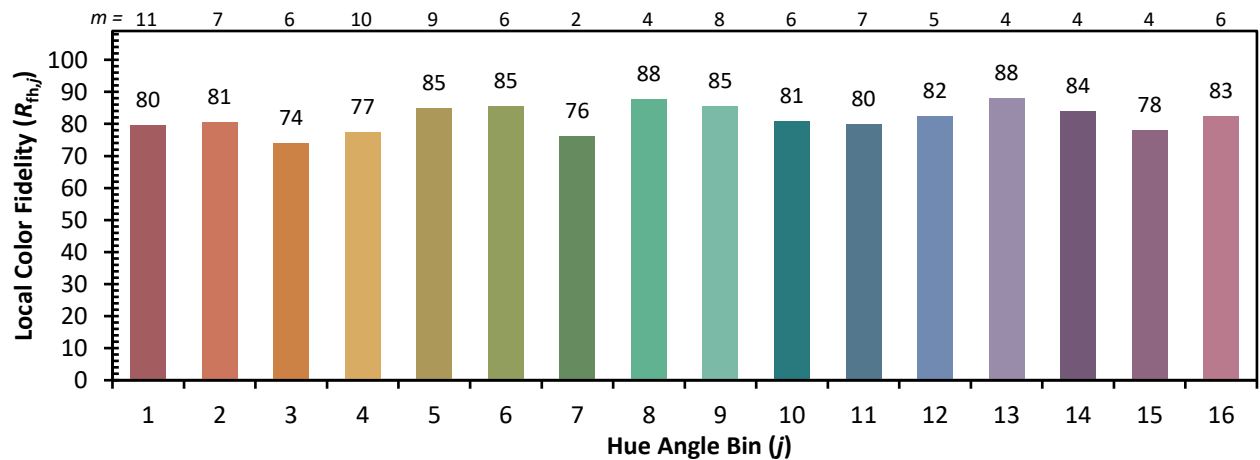
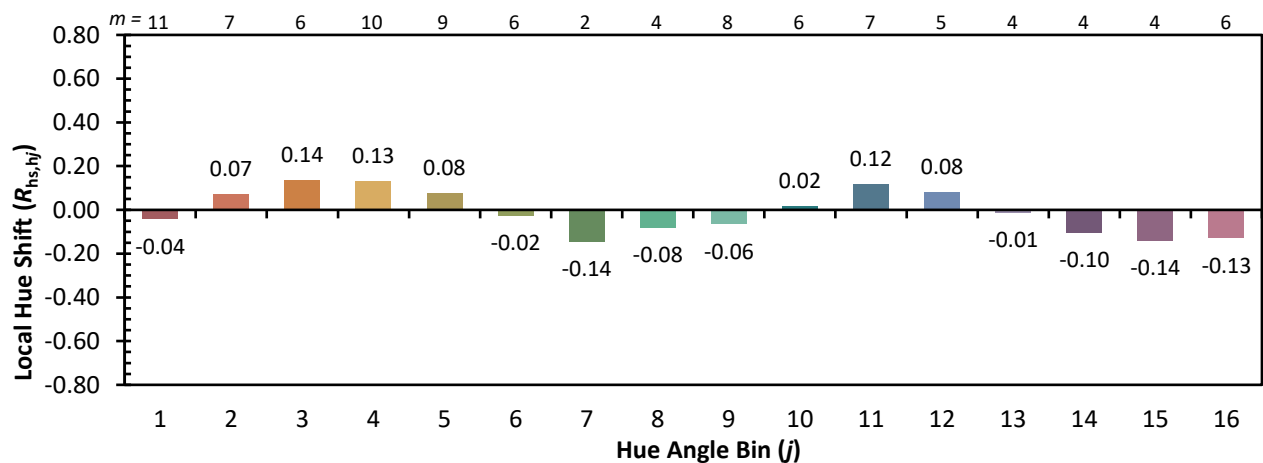
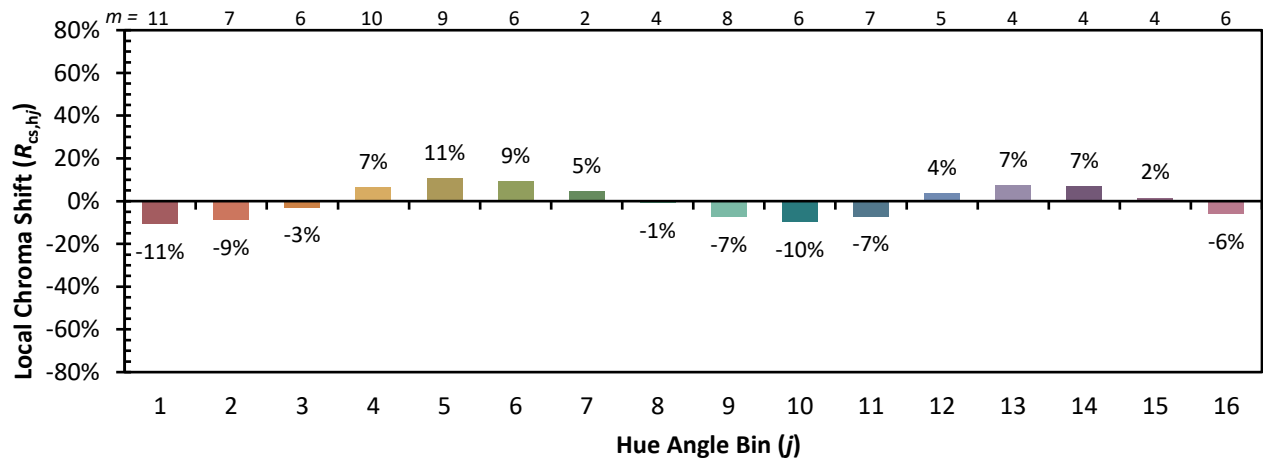


Individual Sample Fidelity Index ($R_{f,i}$)

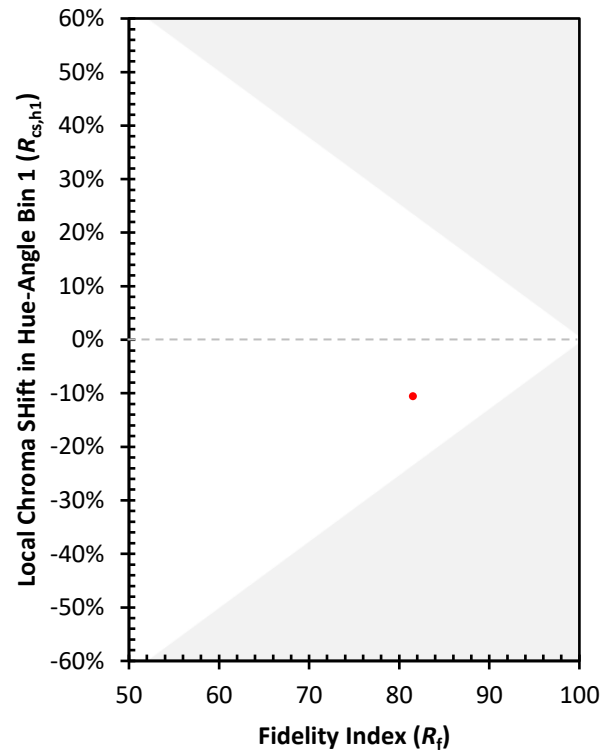
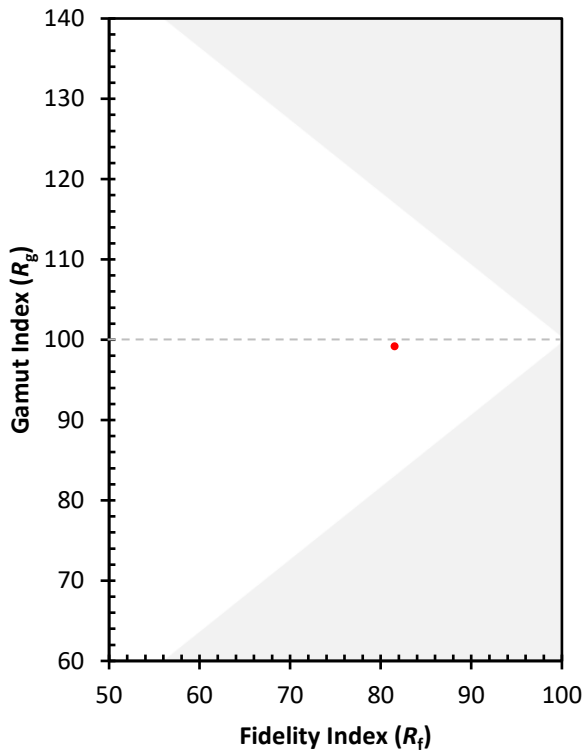
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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