

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: P386727

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386727
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: GPC-SA2B-830-U-SLL
Description: GALLEON PEDESTRIAN 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: 8329 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

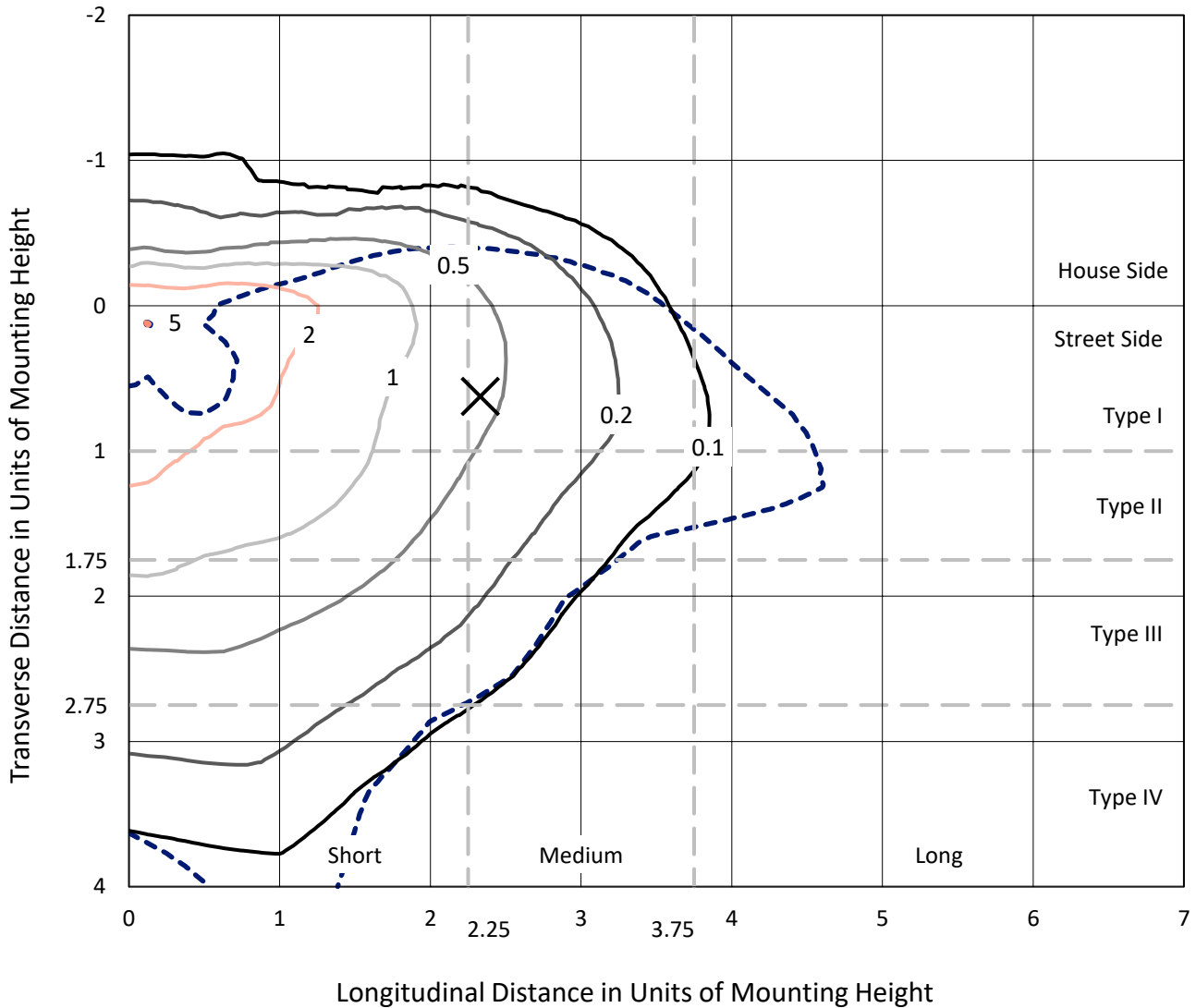
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

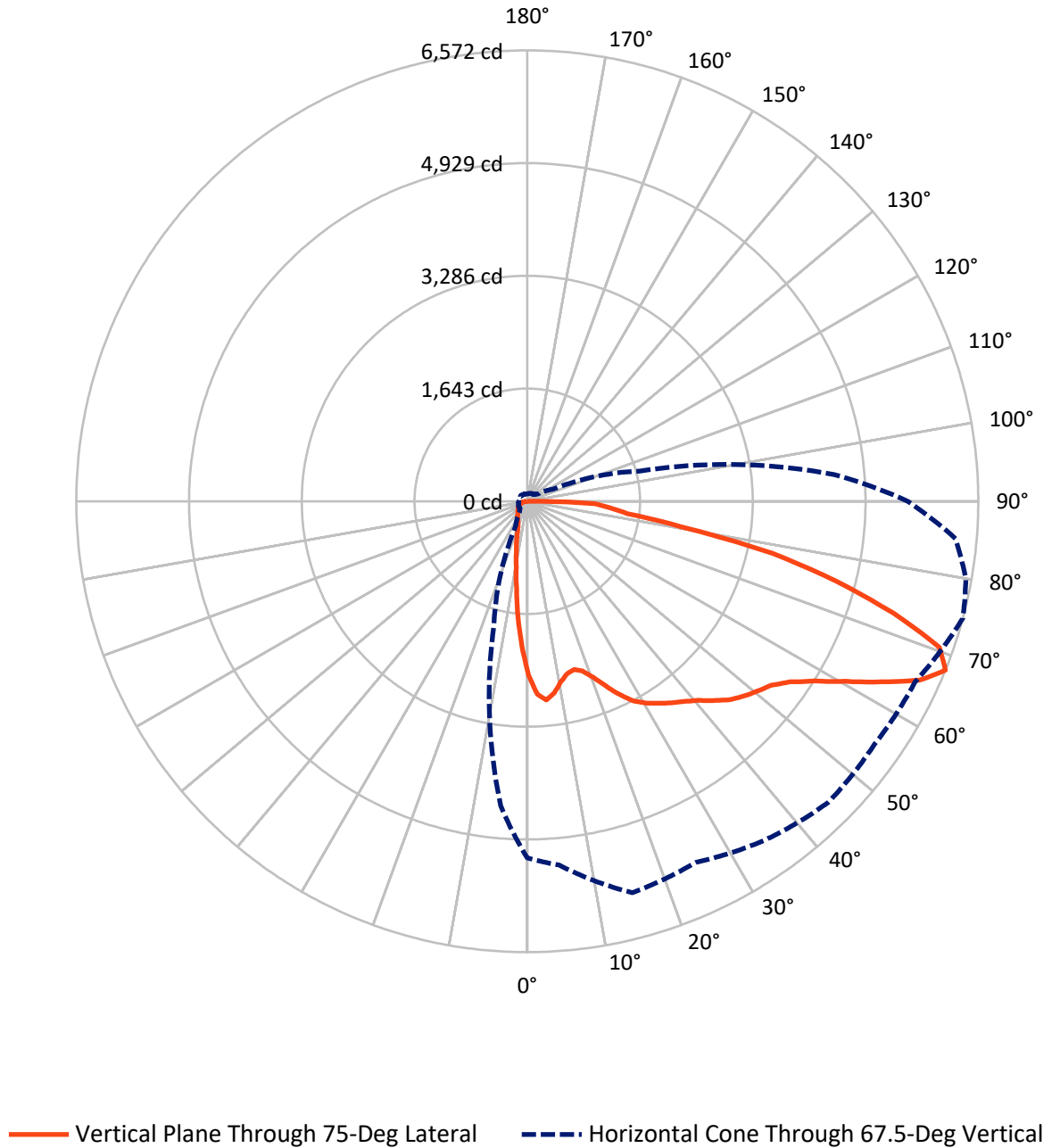
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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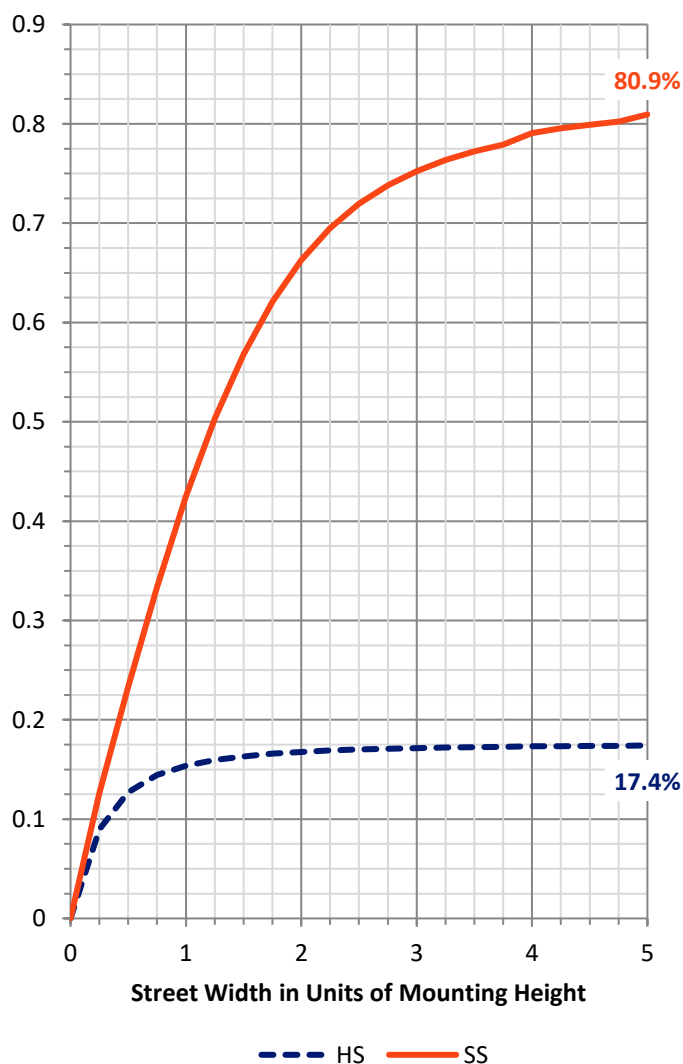
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.9	0.0	1466.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	6862.1	0.0	6862.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	8329.0	0.0	8329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	2.4
10°-20°	406.8	4.9
20°-30°	578.6	6.9
30°-40°	833.8	10.0
40°-50°	1175.0	14.1
50°-60°	1633.5	19.6
60°-70°	1975.3	23.7
70°-80°	1214.2	14.6
80°-90°	316.0	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°	8329.0	100.0
0°-180°	8329.0	100.0

Coefficient of Utilization



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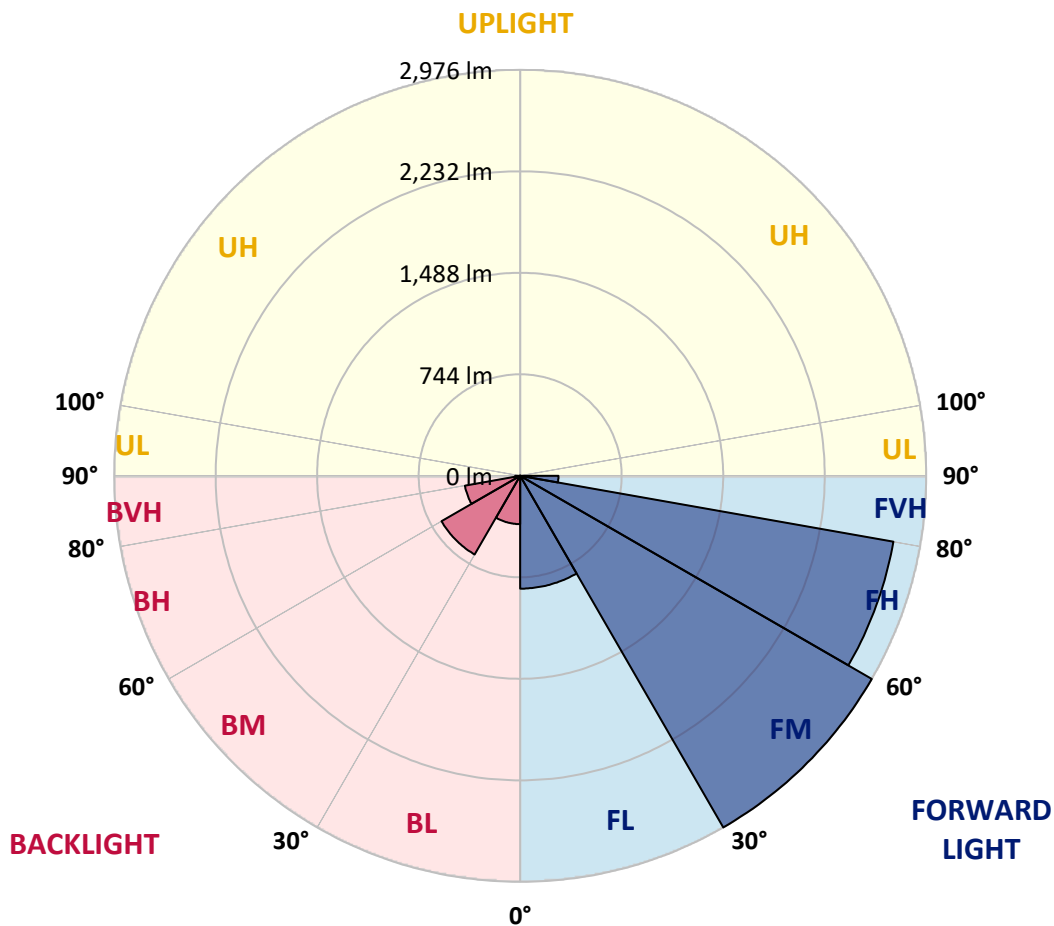
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.0	9.9			
FM (30°-60°)	2976.3	35.7			
FH (60°-80°)	2778.3	33.4			G2/5000
FVH (80°-90°)	280.5	3.4			G3/500
BL (0°-30°)	354.3	4.3	B1/500		
BM (30°-60°)	665.9	8.0	B1/1000		
BH (60°-80°)	411.3	4.9	B1/500		G1/500
BVH (80°-90°)	35.5	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°	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5
2.5°	2704.6	2740.3	2764.9	2789.2	2808.2	2826.8	2854.2	2881.5	2886.8	2891.8	2881.1
5°	2688.7	2775.6	2849.5	2923.1	2991.3	3059.6	3100.6	3141.5	3149.9	3158.2	3132.5
7.5°	2516.5	2644.7	2772.9	2901.1	3018.7	3136.2	3207.8	3279.1	3295.4	3311.4	3269.4
10°	2320.7	2469.9	2627.4	2784.9	2939.7	3094.6	3198.1	3301.7	3322.4	3343.0	3290.7
12.5°	2171.8	2334.7	2502.8	2671.0	2834.5	2997.7	3104.9	3212.1	3237.8	3263.4	3225.4
15°	2114.6	2293.0	2451.2	2609.4	2751.9	2894.1	2982.0	3069.6	3080.3	3090.6	3084.6
17.5°	2171.8	2368.6	2511.8	2654.7	2732.3	2809.5	2844.8	2879.8	2891.4	2902.8	2918.1
20°	2339.3	2551.8	2652.7	2753.3	2749.9	2746.3	2729.3	2712.0	2709.0	2706.0	2749.3
22.5°	2578.4	2825.2	2865.5	2905.4	2811.9	2718.3	2661.3	2604.1	2592.7	2581.1	2627.0
25°	2859.1	3121.9	3114.6	3106.9	2928.7	2750.3	2641.7	2533.1	2520.5	2507.8	2547.1
27.5°	3164.5	3415.6	3367.6	3319.7	3077.6	2835.5	2678.0	2520.5	2507.8	2495.2	2529.8
30°	3403.3	3631.0	3554.1	3477.2	3203.1	2929.1	2741.9	2554.8	2534.1	2513.2	2555.8
32.5°	3605.4	3799.2	3696.0	3592.7	3305.0	3017.3	2814.9	2612.4	2580.1	2547.8	2604.7
35°	3815.9	3967.0	3821.9	3676.3	3395.9	3115.2	2901.1	2686.7	2647.0	2607.4	2685.7
37.5°	4052.6	4178.2	3969.7	3760.9	3498.2	3235.4	3030.3	2824.8	2784.2	2743.6	2843.5
40°	4302.7	4407.3	4129.2	3851.2	3610.1	3369.0	3209.1	3049.0	3010.3	2971.4	3092.6
42.5°	4521.5	4597.7	4277.7	3957.7	3744.9	3531.8	3419.3	3306.4	3306.0	3305.4	3428.2
45°	4686.3	4752.6	4401.6	4050.3	3876.5	3702.3	3643.7	3585.1	3632.0	3679.0	3790.2
47.5°	4823.2	4868.1	4505.5	4142.5	4027.0	3911.4	3920.1	3928.7	4024.3	4119.9	4191.5
50°	4979.7	4943.4	4599.7	4255.8	4220.1	4184.5	4262.4	4340.0	4449.9	4559.5	4608.1
52.5°	5149.2	5053.0	4727.6	4401.9	4441.9	4481.9	4640.4	4798.9	4909.8	5020.7	5039.0
55°	5453.9	5306.4	4962.7	4618.7	4695.6	4772.2	5005.0	5237.4	5324.0	5410.6	5417.3
57.5°	5797.2	5666.3	5292.1	4917.8	5000.3	5082.9	5351.7	5620.1	5713.6	5806.9	5793.9
60°	5929.4	5935.7	5604.7	5273.4	5356.7	5439.9	5701.6	5963.4	6070.9	6178.2	6149.5
62.5°	5796.2	5952.4	5775.6	5598.4	5674.0	5749.3	6005.7	6262.1	6372.3	6482.5	6432.6
65°	5532.8	5687.7	5766.9	5846.2	5871.1	5896.1	6135.5	6374.6	6459.2	6543.5	6518.2
67.5°	5197.8	5323.0	5615.4	5907.4	5857.2	5806.9	5919.1	6031.3	6118.2	6205.1	6190.8
70°	4809.9	4959.1	5349.0	5738.9	5491.9	5244.4	5198.1	5151.9	5245.8	5339.3	5281.4
72.5°	4114.2	4339.3	4755.3	5170.8	4715.6	4260.4	4102.2	3944.1	4062.9	4181.8	4089.6
75°	3107.6	3406.3	3865.8	4325.0	3781.9	3238.8	3027.6	2816.5	2918.8	3021.0	2957.7
77.5°	2161.2	2535.8	2988.4	3440.9	2888.8	2336.3	2179.5	2022.3	2053.0	2083.3	2072.6
80°	1473.5	1720.0	2035.6	2351.0	1983.4	1615.7	1628.0	1640.0	1625.7	1611.1	1632.4
82.5°	924.1	1097.6	1341.3	1584.8	1389.6	1194.5	1306.4	1418.3	1363.3	1308.0	1328.7
85°	520.5	626.4	864.8	1102.9	1028.0	952.7	1018.3	1083.6	998.3	913.1	950.7
87.5°	99.2	165.2	478.5	791.5	718.6	645.7	561.1	476.5	363.6	250.7	366.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5
2.5°	2870.5	2864.8	2859.1	2838.8	2818.2	2787.6	2762.2	2718.3	2694.3	2658.0	2621.7
5°	3106.6	3070.6	3034.6	2972.7	2910.4	2841.2	2761.6	2673.3	2606.7	2520.2	2433.6
7.5°	3227.4	3143.5	3059.3	2940.4	2821.2	2714.0	2588.1	2470.9	2371.0	2258.4	2145.9
10°	3238.4	3112.6	2986.4	2831.8	2677.0	2546.8	2401.9	2271.7	2151.9	2022.6	1893.1
12.5°	3187.2	3053.3	2919.1	2748.9	2578.4	2430.6	2274.7	2128.9	1996.0	1853.8	1711.3
15°	3078.6	2971.7	2864.5	2705.0	2545.5	2396.3	2245.1	2072.3	1922.1	1776.6	1630.7
17.5°	2933.1	2882.5	2831.5	2716.3	2600.7	2471.5	2325.0	2122.2	1946.4	1788.2	1630.0
20°	2792.2	2810.9	2829.2	2783.2	2737.3	2633.7	2505.8	2278.1	2053.6	1846.8	1639.7
22.5°	2672.7	2762.2	2851.5	2887.1	2922.4	2860.1	2760.2	2496.8	2199.8	1929.7	1659.7
25°	2586.1	2734.6	2883.1	3001.7	3119.9	3092.2	3015.3	2762.6	2393.6	2049.3	1704.6
27.5°	2564.4	2746.6	2928.7	3112.6	3296.0	3321.7	3300.4	3042.6	2624.7	2197.8	1770.6
30°	2598.4	2782.9	2967.0	3190.8	3414.3	3516.5	3545.1	3276.1	2888.8	2371.0	1852.8
32.5°	2661.7	2842.5	3023.3	3267.1	3510.5	3665.0	3756.3	3489.5	3072.9	2501.5	1929.7
35°	2763.9	2933.1	3102.2	3356.0	3609.7	3809.5	3976.0	3710.0	3236.4	2592.7	1948.7
37.5°	2943.1	3088.6	3234.1	3468.5	3702.6	3961.7	4211.8	3952.7	3413.3	2680.7	1947.7
40°	3213.8	3316.7	3419.3	3617.4	3815.2	4141.2	4478.9	4223.5	3608.7	2775.9	1943.1
42.5°	3551.1	3604.1	3656.7	3813.5	3970.4	4328.7	4721.3	4488.2	3795.2	2864.5	1933.7
45°	3901.1	3915.1	3929.1	4028.0	4126.6	4477.2	4886.5	4687.0	3958.1	2941.4	1924.4
47.5°	4262.7	4214.8	4166.8	4206.1	4245.4	4591.1	5004.3	4837.8	4121.6	3026.6	1931.4
50°	4656.7	4523.2	4389.6	4369.0	4348.3	4705.0	5143.2	5029.6	4318.0	3150.9	1983.7
52.5°	5057.0	4836.8	4616.7	4535.1	4453.2	4840.8	5327.4	5268.4	4598.4	3343.3	2087.9
55°	5423.9	5143.9	4863.8	4753.9	4644.0	5048.6	5552.1	5619.1	4957.7	3589.4	2220.8
57.5°	5780.6	5463.2	5145.9	5044.0	4942.1	5354.0	5836.8	5933.7	5320.7	3825.5	2330.0
60°	6120.9	5806.9	5492.5	5410.9	5329.0	5733.6	6144.5	6073.9	5507.8	3936.1	2364.0
62.5°	6382.6	6132.9	5883.1	5840.2	5796.9	6117.6	6381.0	6019.3	5389.0	3827.2	2265.4
65°	6492.9	6350.7	6208.1	6248.4	6288.4	6407.9	6439.9	5859.5	5015.3	3522.2	2029.0
67.5°	6176.2	6205.1	6234.1	6403.3	6572.1	6489.9	6264.8	5544.5	4483.5	3089.9	1696.3
70°	5223.1	5396.9	5570.4	5970.7	6370.6	6188.2	5795.6	4979.0	3843.5	2592.1	1340.3
72.5°	3997.0	4192.5	4387.6	4981.7	5575.4	5407.3	4926.4	4089.6	3081.6	2069.9	1057.9
75°	2894.1	3114.9	3335.3	3990.7	4646.0	4412.6	3685.0	2928.1	2340.7	1580.1	819.2
77.5°	2061.6	2209.5	2357.3	3004.7	3651.7	3271.4	2452.9	1970.4	1620.1	1098.2	576.1
80°	1653.7	1608.4	1563.1	1923.7	2284.4	2221.1	1622.4	1265.4	1121.2	735.9	350.7
82.5°	1349.0	1238.4	1127.9	1297.7	1467.5	1458.2	1125.9	928.4	834.5	511.5	188.5
85°	988.0	943.7	899.4	1049.6	1199.8	1071.6	762.6	590.1	650.7	376.6	102.6
87.5°	481.9	550.5	618.7	795.9	972.7	730.3	231.4	114.6	158.5	104.2	49.6
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: P386727
 CATALOG NUMBER: GPC-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: P386727

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5
2.5°	2594.7	2567.4	2536.5	2505.5	2470.2	2434.6	2413.6	2392.3	2369.3	2346.3	2320.4
5°	2376.3	2319.0	2254.1	2189.1	2124.9	2060.6	2026.0	1991.3	1954.7	1917.8	1885.8
7.5°	2062.6	1979.0	1889.1	1798.9	1719.0	1638.7	1589.1	1539.1	1493.8	1448.2	1409.9
10°	1786.6	1680.0	1589.7	1499.2	1438.9	1378.6	1333.0	1287.4	1243.4	1199.1	1156.8
12.5°	1604.7	1498.2	1440.9	1383.6	1333.7	1283.7	1231.1	1178.2	1117.9	1057.3	1013.0
15°	1533.8	1436.9	1373.3	1309.4	1242.4	1175.2	1110.6	1046.0	974.7	903.4	853.1
17.5°	1503.2	1376.3	1287.4	1198.1	1109.9	1021.6	946.7	871.8	793.9	716.0	665.0
20°	1470.9	1302.0	1182.8	1063.3	950.1	836.8	751.9	667.0	597.4	527.8	488.8
22.5°	1441.6	1223.1	1073.6	923.7	789.9	656.0	572.8	489.2	446.6	403.9	388.3
25°	1429.6	1154.2	970.4	786.5	645.4	503.8	444.6	385.3	369.0	352.3	344.3
27.5°	1431.6	1092.6	883.5	674.0	546.8	419.6	379.0	338.3	328.3	318.0	313.0
30°	1439.2	1025.6	801.5	577.4	472.5	367.6	341.3	314.7	304.0	293.4	287.0
32.5°	1447.9	965.7	738.3	510.5	424.9	339.0	317.4	295.4	285.0	274.7	268.4
35°	1432.9	916.8	695.0	473.2	394.3	315.0	296.7	278.1	266.7	255.4	249.4
37.5°	1407.6	867.5	661.3	454.9	374.3	293.4	280.1	266.4	254.7	242.8	237.1
40°	1384.6	825.8	636.4	446.6	363.3	279.7	268.4	257.1	245.1	232.8	226.1
42.5°	1366.0	797.9	611.7	425.6	353.3	280.7	264.7	248.4	236.8	225.1	217.8
45°	1352.0	779.6	592.4	405.3	344.0	282.7	262.4	242.1	230.4	218.4	209.8
47.5°	1350.7	769.9	578.8	387.6	326.3	264.7	256.4	248.1	231.1	213.8	203.8
50°	1369.0	754.2	562.8	371.0	309.4	247.8	259.1	270.1	241.1	211.8	199.1
52.5°	1407.3	726.6	537.5	348.3	288.7	228.8	246.4	263.7	238.8	213.5	197.1
55°	1453.6	686.0	499.2	312.0	261.4	210.5	226.1	241.4	225.8	209.8	190.1
57.5°	1482.5	634.7	450.9	267.1	230.8	194.5	203.5	212.1	205.8	199.5	179.5
60°	1465.2	566.4	396.6	226.4	203.8	181.2	179.5	177.5	186.8	196.1	173.2
62.5°	1380.6	495.8	348.7	201.5	184.5	167.2	163.5	159.5	174.8	189.8	165.5
65°	1237.8	446.6	318.3	190.1	171.2	152.2	148.2	144.2	148.9	153.5	142.2
67.5°	1056.3	416.3	301.0	185.8	162.8	139.5	134.9	130.2	129.2	128.2	124.2
70°	869.1	397.6	289.7	181.8	153.8	125.5	121.2	116.9	115.6	113.9	110.9
72.5°	726.6	395.3	288.4	181.5	146.5	111.6	107.6	103.6	101.9	99.9	97.6
75°	595.1	371.0	273.7	176.5	136.5	96.2	92.6	88.9	87.6	85.9	83.9
77.5°	441.6	307.0	230.1	153.2	116.9	80.6	76.9	72.9	72.6	71.9	70.3
80°	286.4	222.1	164.5	106.9	85.2	63.3	60.3	56.9	57.3	57.6	56.3
82.5°	159.2	129.5	100.6	71.6	58.3	45.0	43.6	42.0	43.0	43.6	42.0
85°	83.9	65.3	53.9	42.6	33.6	24.6	24.6	24.3	25.6	27.0	25.6
87.5°	36.3	23.0	19.6	16.0	9.0	1.7	2.0	2.0	2.7	3.3	3.0
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: P386727
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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: P386727
 CATALOG NUMBER: GPC-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5
2.5°	2294.0	2269.7	2245.1	2218.1	2223.1	2202.5	2181.8	2168.8	2155.8	2151.9	2147.9
5°	1853.8	1826.2	1798.2	1773.2	1794.9	1780.2	1765.6	1763.6	1761.2	1761.2	1760.9
7.5°	1371.6	1342.0	1312.0	1291.4	1312.7	1310.0	1307.4	1321.7	1336.0	1347.7	1359.0
10°	1114.6	1078.6	1042.3	1011.7	1006.3	991.0	975.4	978.7	981.7	994.3	1007.0
12.5°	968.7	925.7	882.8	846.8	830.5	805.2	779.6	763.6	747.6	749.3	750.6
15°	802.5	760.9	718.9	688.0	677.7	658.0	638.4	618.4	598.1	589.7	581.1
17.5°	613.7	580.4	546.8	526.1	526.1	520.5	514.8	504.8	494.5	486.2	477.5
20°	449.9	432.2	414.3	405.6	408.3	408.6	408.6	413.6	418.6	415.9	413.3
22.5°	372.3	366.0	359.6	356.0	357.3	357.6	358.0	362.6	367.0	370.3	373.3
25°	336.0	332.0	328.0	326.7	329.7	330.0	330.0	333.0	336.0	339.3	342.7
27.5°	307.7	306.0	304.4	302.0	305.0	305.0	304.7	308.0	311.0	314.0	316.7
30°	280.7	281.4	281.7	281.1	283.1	284.4	285.4	287.7	289.7	292.0	294.4
32.5°	261.7	260.7	259.7	259.1	263.4	265.7	268.1	270.4	272.4	273.4	274.4
35°	243.4	241.1	238.8	237.1	241.1	244.1	247.1	251.4	255.4	256.1	256.7
37.5°	231.1	228.1	225.1	223.1	224.8	226.1	227.4	232.1	236.8	239.4	241.8
40°	219.4	216.5	213.5	211.8	212.8	213.1	213.5	215.8	217.8	222.8	227.4
42.5°	210.1	206.5	202.8	200.8	201.5	202.1	202.5	202.1	201.8	206.5	211.1
45°	200.8	196.8	192.8	190.5	190.8	190.8	190.8	190.1	189.1	191.5	193.8
47.5°	193.5	188.8	184.1	181.8	181.2	180.5	179.8	179.5	178.8	180.5	181.8
50°	186.1	181.2	175.8	173.2	171.5	170.8	170.2	169.8	169.2	170.8	172.2
52.5°	180.5	174.5	168.5	164.2	162.5	161.5	160.5	160.8	160.8	161.5	161.8
55°	170.5	165.2	159.5	156.5	153.5	152.8	152.2	153.2	153.8	153.8	153.8
57.5°	159.5	154.5	149.2	147.2	144.5	144.5	144.2	145.5	146.5	147.2	147.9
60°	149.9	144.2	138.5	136.9	135.9	135.5	135.2	136.9	138.2	139.5	140.9
62.5°	140.9	134.9	128.9	126.9	126.5	126.9	126.9	128.5	129.9	131.2	132.5
65°	130.9	124.9	118.5	116.6	117.2	118.2	119.2	120.5	121.5	122.9	124.2
67.5°	119.9	114.9	109.6	107.6	107.9	109.2	110.6	111.6	112.2	113.6	114.9
70°	107.9	103.6	99.2	97.9	97.6	99.2	100.6	101.2	101.9	103.6	104.9
72.5°	94.9	91.2	87.6	86.6	86.9	87.9	88.9	89.9	90.6	92.2	93.6
75°	81.6	78.3	74.9	74.3	74.9	75.9	76.9	77.6	78.3	80.3	81.9
77.5°	68.6	64.9	60.9	60.6	61.6	62.6	63.3	64.3	65.3	67.9	70.6
80°	54.9	50.9	46.6	46.3	47.3	48.3	49.3	50.3	51.3	54.6	57.6
82.5°	40.3	35.6	31.0	30.3	33.6	34.6	35.6	37.3	38.6	41.6	44.6
85°	24.3	19.6	15.0	14.7	17.6	19.3	21.0	23.0	24.6	27.3	30.0
87.5°	2.7	1.3	0.0	0.0	0.3	1.7	3.0	4.7	6.3	9.0	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386727
 CATALOG NUMBER: GPC-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: P386727
 CATALOG NUMBER: GPC-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5
2.5°	2133.2	2118.2	2133.5	2148.5	2154.9	2161.2	2144.9	2128.2	2154.2	2179.8	2186.5
5°	1747.6	1733.9	1744.3	1754.3	1731.9	1709.6	1707.3	1704.6	1723.9	1743.3	1746.3
7.5°	1354.6	1350.3	1360.0	1369.6	1341.3	1312.7	1298.7	1284.7	1289.4	1294.0	1293.4
10°	1010.0	1012.7	1024.6	1036.3	1014.3	992.3	982.7	973.0	983.7	994.0	1003.7
12.5°	756.6	762.2	774.9	787.2	778.2	768.9	769.9	770.9	783.2	795.2	805.9
15°	587.7	594.4	603.4	612.1	612.4	612.4	621.0	629.4	628.4	627.4	634.7
17.5°	486.5	495.2	496.2	497.2	497.5	497.8	497.2	496.5	491.5	486.5	492.2
20°	416.6	419.6	422.2	424.6	421.6	418.2	409.9	401.6	398.3	394.9	400.3
22.5°	379.0	384.3	381.6	378.6	372.6	366.3	360.0	353.3	353.0	352.3	355.3
25°	347.3	351.6	347.0	342.3	338.0	333.7	329.3	325.0	324.7	324.3	325.7
27.5°	321.0	325.0	320.7	316.4	312.7	309.0	305.7	302.4	301.7	301.0	301.4
30°	298.4	302.0	298.4	294.4	291.7	288.7	286.4	284.0	283.7	283.4	283.4
32.5°	278.1	281.7	279.1	276.4	274.1	271.7	270.1	268.4	266.7	265.1	261.4
35°	260.4	264.1	262.4	260.4	257.7	255.1	252.1	248.8	244.4	239.8	237.8
37.5°	245.4	249.1	247.4	245.8	242.1	238.4	233.1	227.4	226.1	224.4	224.1
40°	233.4	239.1	235.8	232.1	226.4	220.8	218.1	215.5	214.8	214.1	213.5
42.5°	220.1	228.8	222.8	216.8	211.5	206.1	205.5	204.8	204.5	204.1	204.1
45°	203.5	212.8	206.8	200.5	197.5	194.5	194.5	194.5	194.8	194.8	195.5
47.5°	187.8	193.5	190.5	187.5	185.8	184.1	184.5	184.8	185.8	186.5	188.1
50°	174.5	176.5	177.2	177.5	176.5	175.5	176.2	176.5	177.5	178.2	179.5
52.5°	164.8	167.8	167.8	167.5	167.5	167.5	168.2	168.8	169.8	170.8	172.2
55°	158.5	162.8	161.5	160.2	160.5	160.5	161.2	161.8	162.8	163.5	165.5
57.5°	152.5	157.2	155.8	154.5	154.5	154.5	154.8	155.2	156.2	156.8	158.2
60°	145.5	150.2	148.9	147.2	147.5	147.9	148.2	148.2	148.9	149.2	149.2
62.5°	137.2	141.9	140.5	138.9	139.9	140.5	140.5	140.5	141.2	141.5	140.5
65°	128.5	132.9	131.5	130.2	131.5	132.5	133.2	133.5	133.2	132.9	131.9
67.5°	119.2	123.5	122.2	120.5	122.2	123.5	124.9	125.9	124.9	123.9	122.5
70°	109.2	113.6	111.9	110.2	111.9	113.6	114.9	116.2	114.9	113.6	113.2
72.5°	98.6	103.6	101.6	99.6	101.6	103.6	104.2	104.9	103.9	102.9	102.2
75°	86.9	91.9	90.2	88.2	89.9	91.6	91.9	92.2	92.2	91.9	89.9
77.5°	74.6	78.6	77.6	76.6	77.6	78.6	78.6	78.6	78.9	78.9	76.3
80°	59.9	62.3	62.6	62.9	63.3	63.6	63.3	62.9	62.3	61.6	59.9
82.5°	44.6	44.6	47.3	49.6	49.6	49.3	49.0	48.3	47.0	45.3	41.6
85°	28.3	26.6	31.0	35.0	35.0	34.6	34.0	33.0	30.3	27.3	24.3
87.5°	9.7	8.0	12.3	16.7	17.0	17.0	16.3	15.7	13.0	10.0	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386727
 CATALOG NUMBER: GPC-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: P386727
 CATALOG NUMBER: GPC-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5
2.5°	2196.5	2200.8	2204.8	2237.4	2269.7	2307.7	2345.7	2374.6	2403.3	2432.9	2462.5
5°	1756.6	1761.9	1767.2	1806.9	1846.2	1899.1	1952.1	1997.7	2043.3	2096.9	2150.5
7.5°	1302.0	1313.7	1325.0	1367.3	1409.3	1466.2	1522.8	1582.4	1641.7	1711.6	1781.6
10°	1022.6	1044.6	1066.3	1109.6	1152.9	1209.1	1265.1	1327.3	1389.6	1458.5	1527.1
12.5°	827.8	857.1	886.1	938.1	990.0	1057.3	1124.2	1193.5	1262.4	1323.0	1383.6
15°	654.0	686.0	717.6	772.6	827.5	901.4	975.0	1050.6	1125.9	1198.5	1271.1
17.5°	510.2	536.5	562.4	609.1	655.3	726.9	798.5	877.8	957.0	1045.6	1133.9
20°	411.6	422.6	433.6	467.2	500.5	558.8	616.7	697.6	778.6	884.5	990.3
22.5°	360.6	366.3	371.6	387.9	403.9	441.6	478.9	550.5	621.7	737.3	852.5
25°	330.0	334.3	338.7	349.3	360.0	378.0	395.9	446.2	496.5	610.1	723.3
27.5°	302.4	309.0	315.4	320.3	325.0	337.3	349.3	382.3	415.3	521.1	626.7
30°	282.4	284.7	287.0	294.7	302.0	314.7	327.3	350.3	373.3	462.9	552.1
32.5°	259.1	262.4	265.7	273.7	281.7	293.4	305.0	323.7	342.0	418.6	494.8
35°	238.1	241.4	244.8	252.7	260.4	273.1	285.4	301.0	316.4	383.0	449.6
37.5°	225.1	228.4	231.8	238.8	245.4	258.1	270.4	282.7	294.7	356.3	417.9
40°	214.1	217.4	220.8	227.4	233.8	246.1	258.1	268.4	278.7	336.3	393.9
42.5°	204.5	208.1	211.8	218.4	224.8	235.8	246.8	260.4	273.7	319.0	364.0
45°	196.5	200.1	203.5	210.8	218.1	228.8	239.4	258.4	277.4	310.0	342.7
47.5°	189.1	193.1	196.8	204.8	212.8	226.1	239.1	255.1	270.7	303.0	335.3
50°	182.2	186.8	191.5	201.1	210.5	232.8	254.7	257.1	259.1	297.4	335.3
52.5°	175.5	180.8	186.1	198.1	209.8	235.8	261.7	253.4	244.8	286.7	328.7
55°	168.8	173.5	177.8	192.5	207.1	226.1	245.1	234.1	222.8	266.7	310.7
57.5°	159.8	164.8	169.5	185.1	200.8	214.1	227.1	217.1	206.8	244.1	281.1
60°	150.5	156.2	161.8	181.8	201.5	199.1	196.5	194.5	192.1	218.8	245.4
62.5°	142.2	148.2	154.2	180.2	206.1	190.1	174.2	175.8	177.2	196.8	216.5
65°	133.9	139.9	145.5	158.5	171.5	165.2	158.8	161.5	163.8	183.2	202.5
67.5°	124.5	129.9	134.9	139.2	143.5	144.2	144.9	147.5	150.2	173.2	195.8
70°	114.2	118.5	122.9	125.9	128.5	129.9	130.9	134.2	137.5	162.5	187.5
72.5°	102.6	106.2	109.6	112.2	114.9	115.9	116.6	119.9	123.2	149.9	176.5
75°	89.9	92.9	95.6	97.9	100.2	101.6	102.9	105.2	107.6	136.5	165.2
77.5°	75.9	78.9	81.6	83.6	85.2	86.6	87.6	90.6	93.6	117.9	141.9
80°	59.3	62.9	66.3	67.9	69.3	69.6	69.6	72.3	74.9	92.2	109.2
82.5°	42.0	46.0	49.6	50.9	52.3	52.3	52.3	55.3	58.3	69.9	81.3
85°	24.6	29.0	33.0	34.3	35.6	36.3	36.6	38.0	39.0	47.3	55.3
87.5°	7.7	11.3	14.7	15.3	16.0	17.3	18.6	19.0	19.0	24.6	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386727
 CATALOG NUMBER: GPC-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: P386727

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5	2537.5
2.5°	2496.5	2530.5	2570.1	2609.4	2643.0	2676.7	2704.6
5°	2218.8	2287.1	2370.6	2453.9	2528.1	2602.4	2688.7
7.5°	1869.8	1958.0	2066.3	2174.5	2279.4	2384.0	2516.5
10°	1617.1	1706.6	1821.2	1935.4	2053.3	2170.8	2320.7
12.5°	1456.5	1529.1	1640.0	1750.9	1889.4	2027.6	2171.8
15°	1350.7	1429.9	1537.8	1645.7	1797.2	1948.7	2114.6
17.5°	1237.8	1341.3	1479.5	1617.7	1797.2	1976.4	2171.8
20°	1119.5	1248.4	1427.6	1606.7	1848.5	2089.9	2339.3
22.5°	1001.7	1150.9	1380.6	1610.1	1926.1	2241.8	2578.4
25°	895.4	1067.6	1352.0	1636.0	2039.0	2441.6	2859.1
27.5°	814.9	1002.7	1340.3	1677.7	2182.2	2686.7	3164.5
30°	743.3	934.4	1326.3	1718.3	2320.0	2921.4	3403.3
32.5°	681.3	867.8	1299.4	1730.6	2416.3	3101.9	3605.4
35°	632.7	815.9	1254.1	1692.3	2476.5	3260.7	3815.9
37.5°	590.7	763.6	1202.5	1641.4	2530.1	3418.9	4052.6
40°	550.8	707.6	1158.2	1608.4	2604.1	3599.7	4302.7
42.5°	512.8	661.7	1122.5	1583.4	2672.7	3761.6	4521.5
45°	484.5	626.4	1090.9	1555.1	2717.0	3878.8	4686.3
47.5°	470.5	605.4	1073.9	1542.1	2761.2	3980.0	4823.2
50°	468.5	601.7	1093.2	1584.8	2857.1	4129.2	4979.7
52.5°	468.2	607.7	1148.9	1690.0	3035.3	4380.3	5149.2
55°	461.2	611.4	1215.1	1818.5	3274.4	4729.9	5453.9
57.5°	439.9	598.7	1283.4	1967.7	3527.1	5086.3	5797.2
60°	406.9	568.1	1339.7	2110.9	3697.0	5282.7	5929.4
62.5°	365.6	514.5	1358.3	2201.8	3692.3	5182.8	5796.2
65°	330.3	458.2	1297.0	2135.5	3505.5	4875.1	5532.8
67.5°	299.0	401.9	1143.9	1885.5	3169.5	4453.2	5197.8
70°	276.4	365.0	946.4	1527.8	2748.9	3969.7	4809.9
72.5°	262.1	347.3	771.6	1195.5	2230.8	3265.7	4114.2
75°	242.4	319.7	605.4	890.8	1707.3	2523.8	3107.6
77.5°	205.8	269.4	456.2	643.0	1252.8	1862.1	2161.2
80°	158.8	208.1	313.7	419.2	862.1	1305.0	1473.5
82.5°	113.2	145.2	190.1	235.1	572.8	910.1	924.1
85°	69.9	84.6	108.9	133.2	379.0	624.7	520.5
87.5°	37.6	45.0	57.6	69.9	121.2	172.5	99.2
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: P386727
 CATALOG NUMBER: GPC-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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

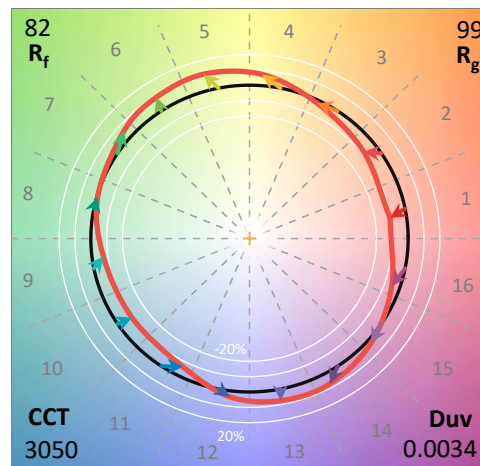
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

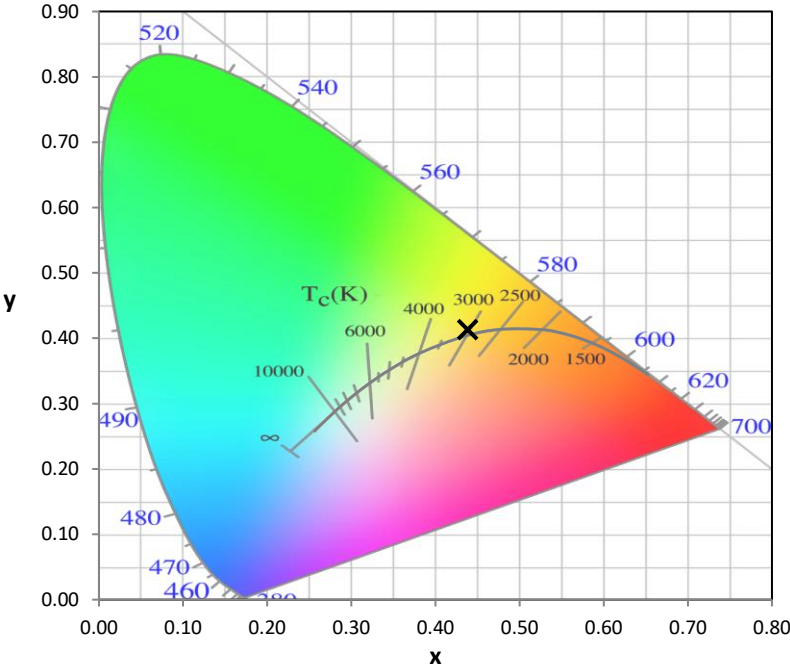
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

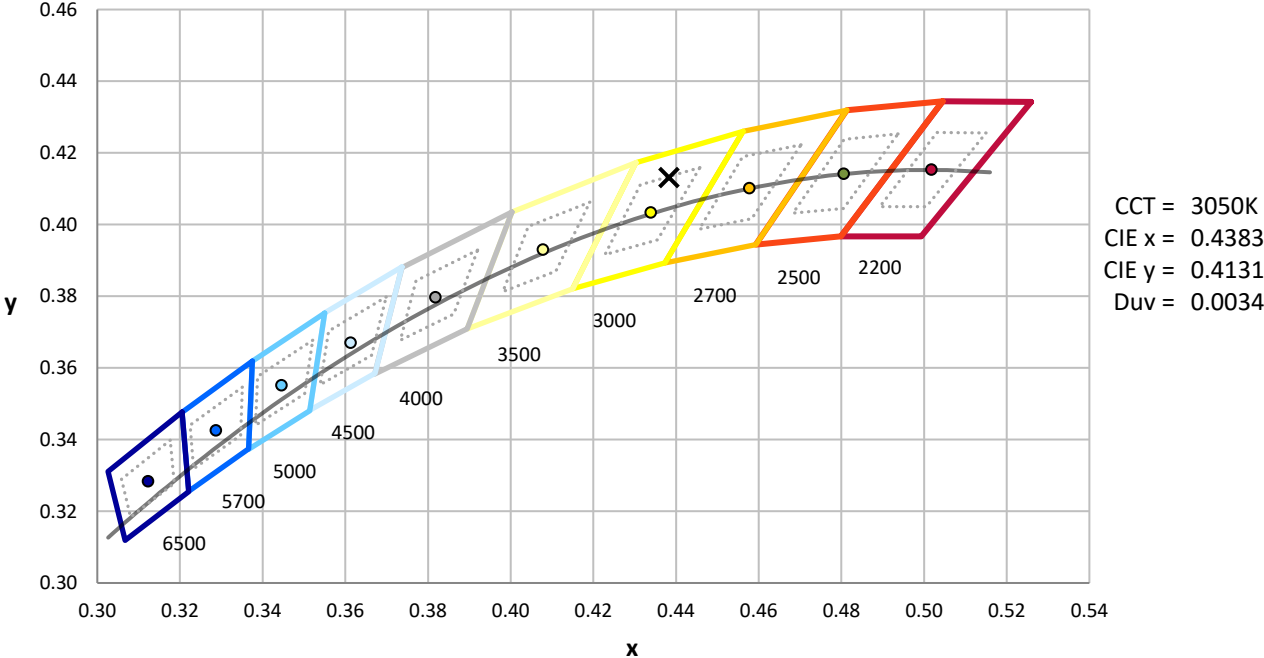
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



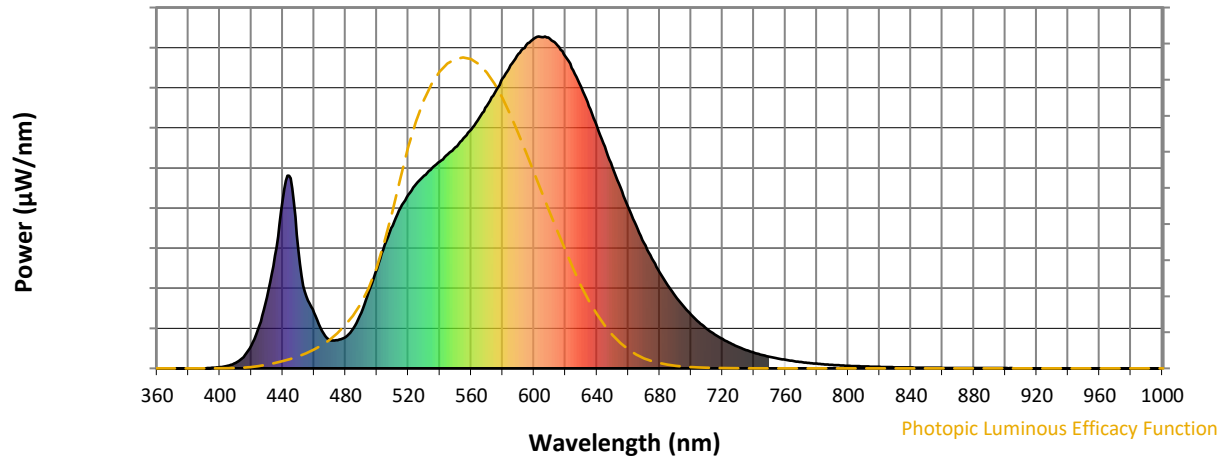
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

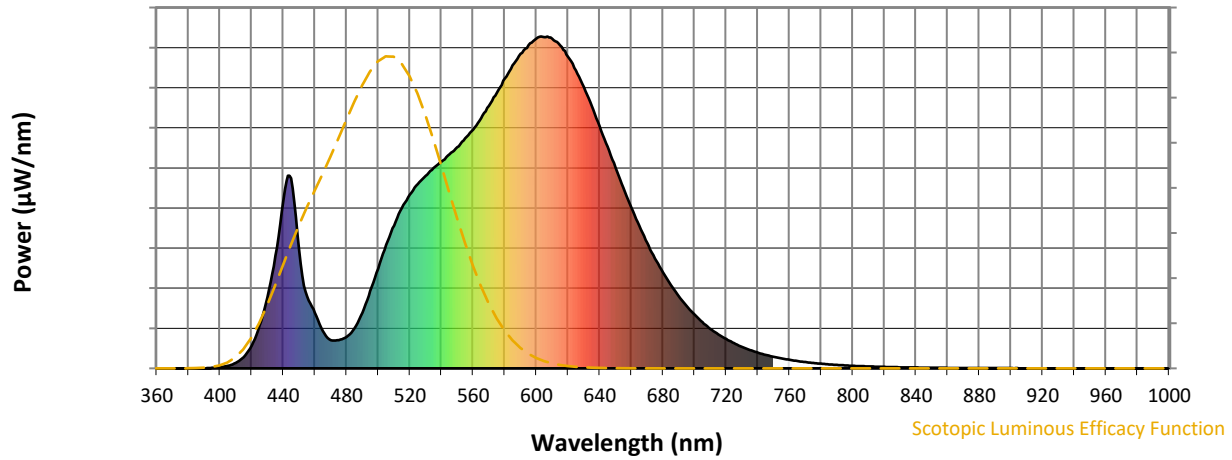


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



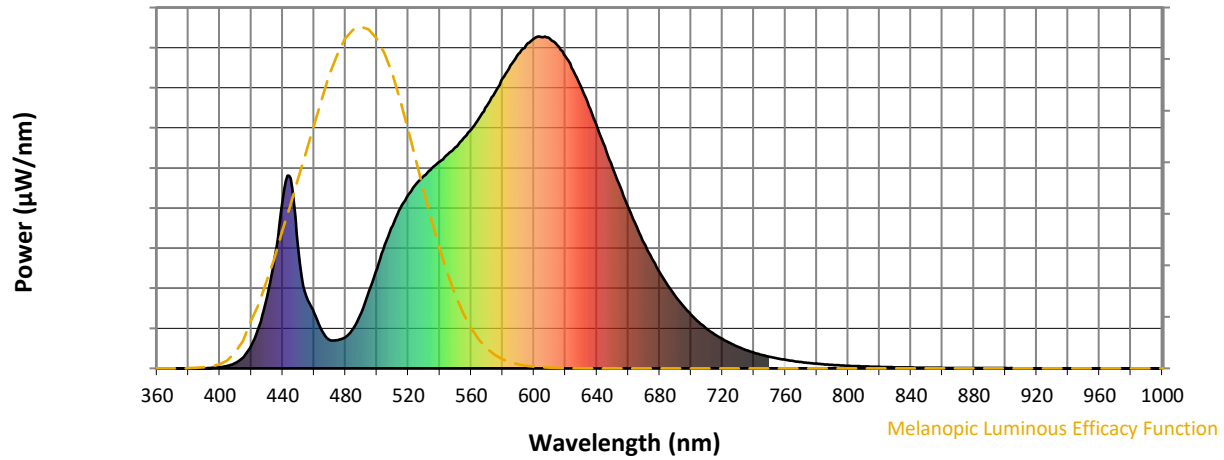
Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



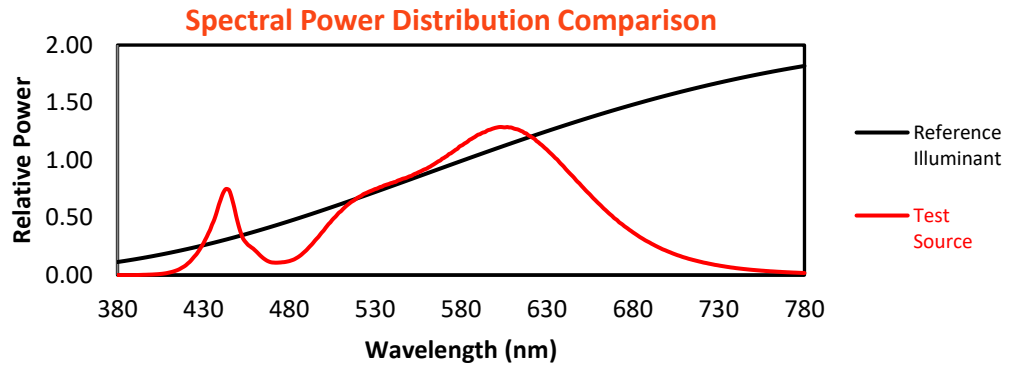
Melanopic Lumens: NR

M/P: 2.32

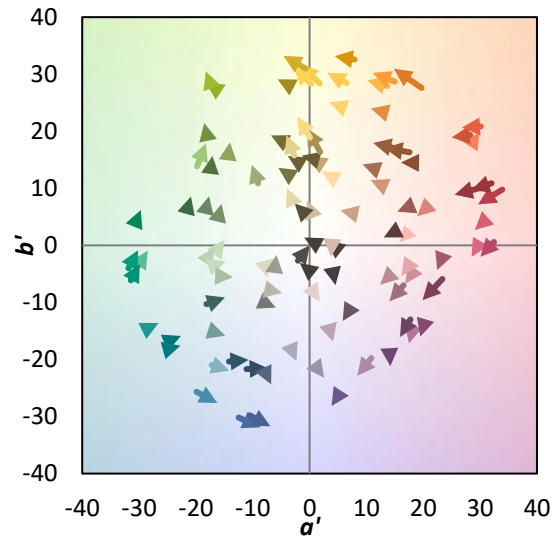
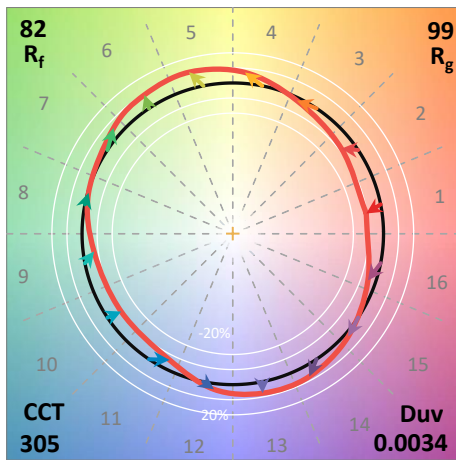
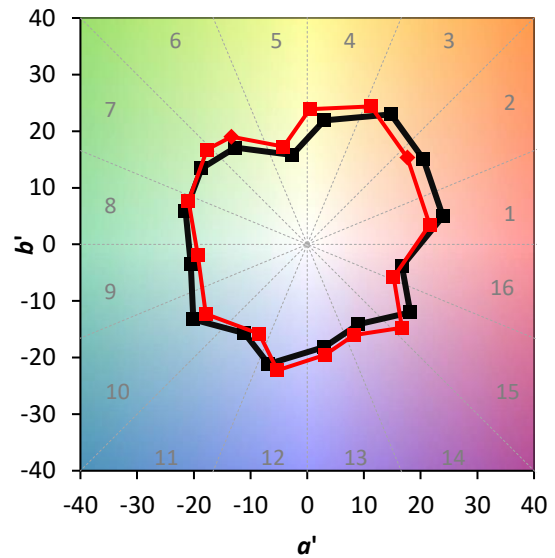
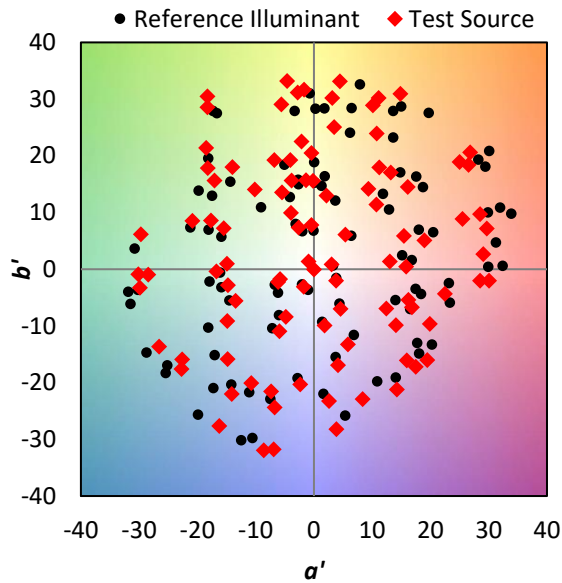
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

Summary

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

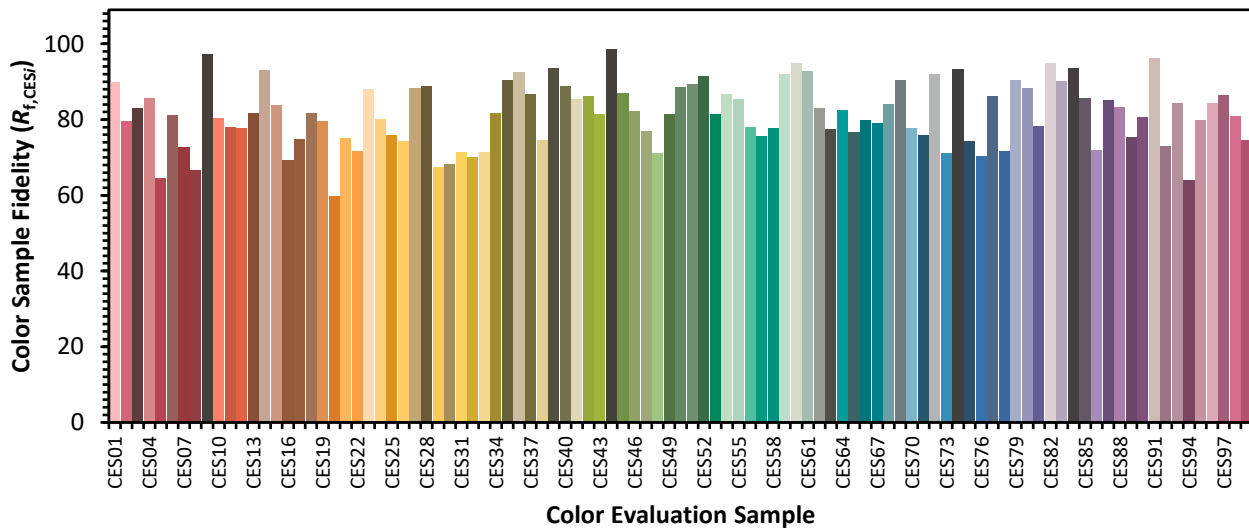


Color Vector Graphics

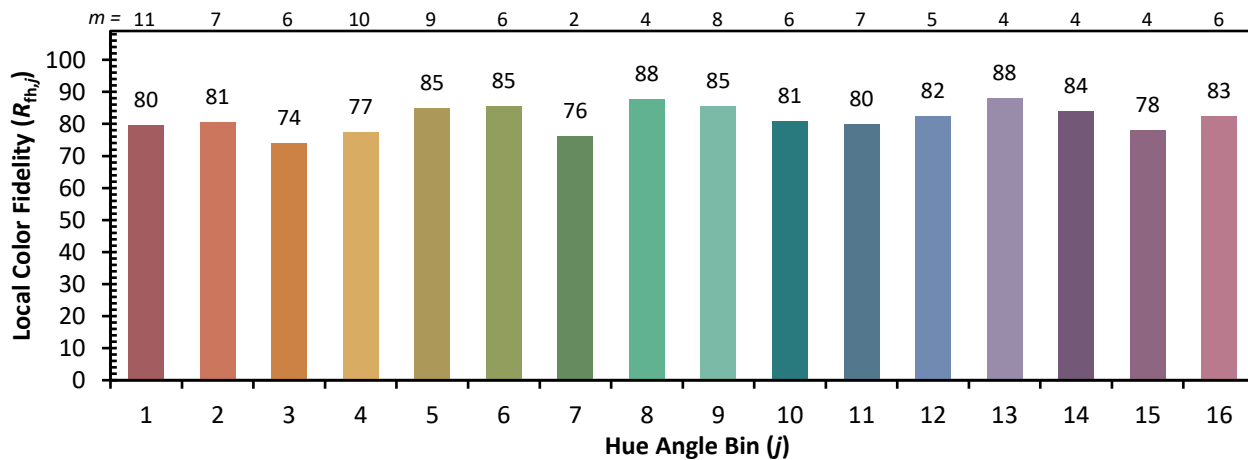
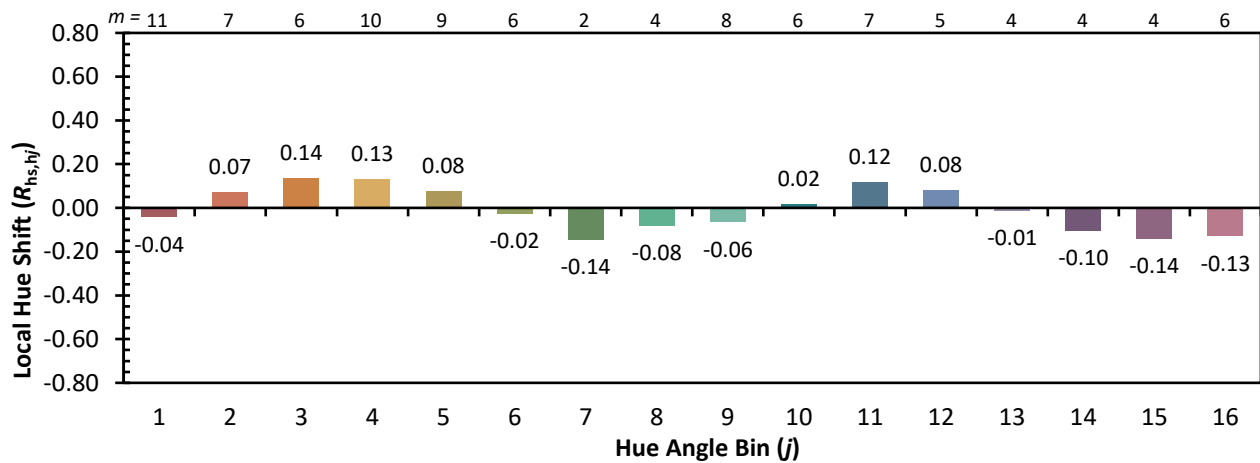
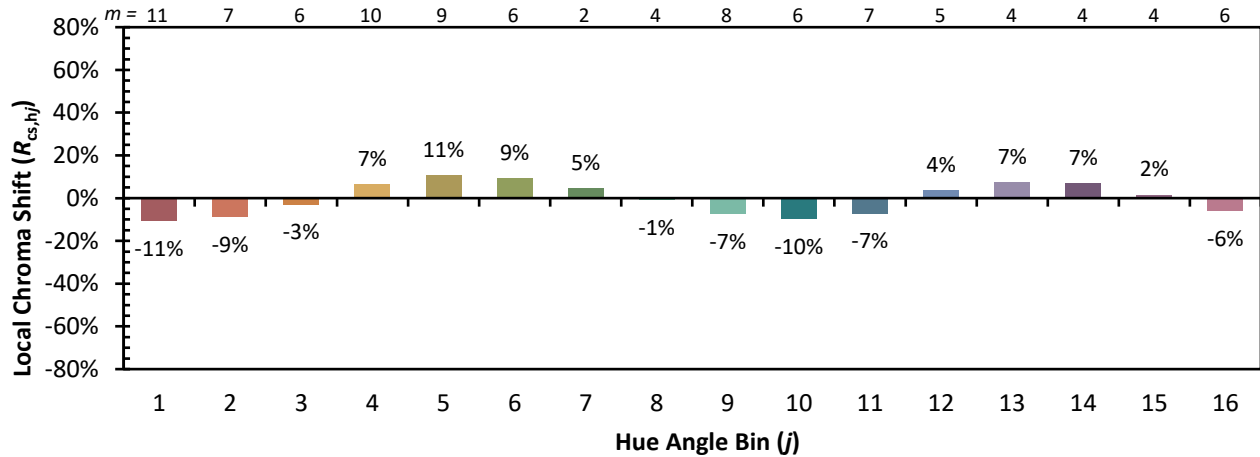


Individual Sample Fidelity Index ($R_{f,i}$)

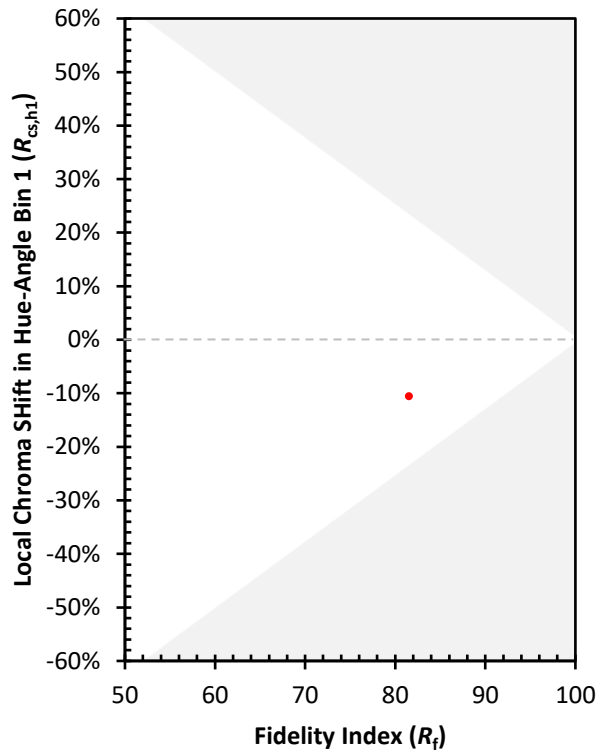
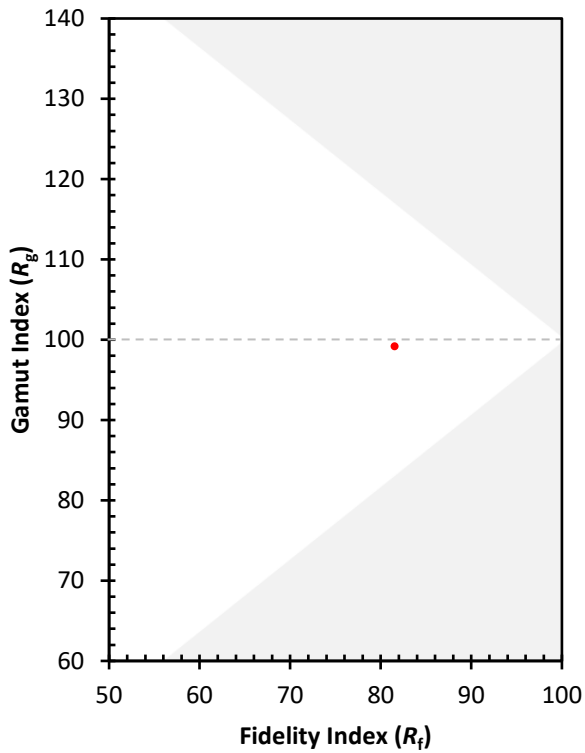
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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