

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: LUMARK

Report Number: P973037

Luminaire Tested: **WP-6984-70W-3000K**

Issue Date: 03/12/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P973037  
Test Lab: LEADING TESTING LABORATORIES  
Issue Date: 03/12/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WP-6984-70W-3000K  
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @70W-3000K  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

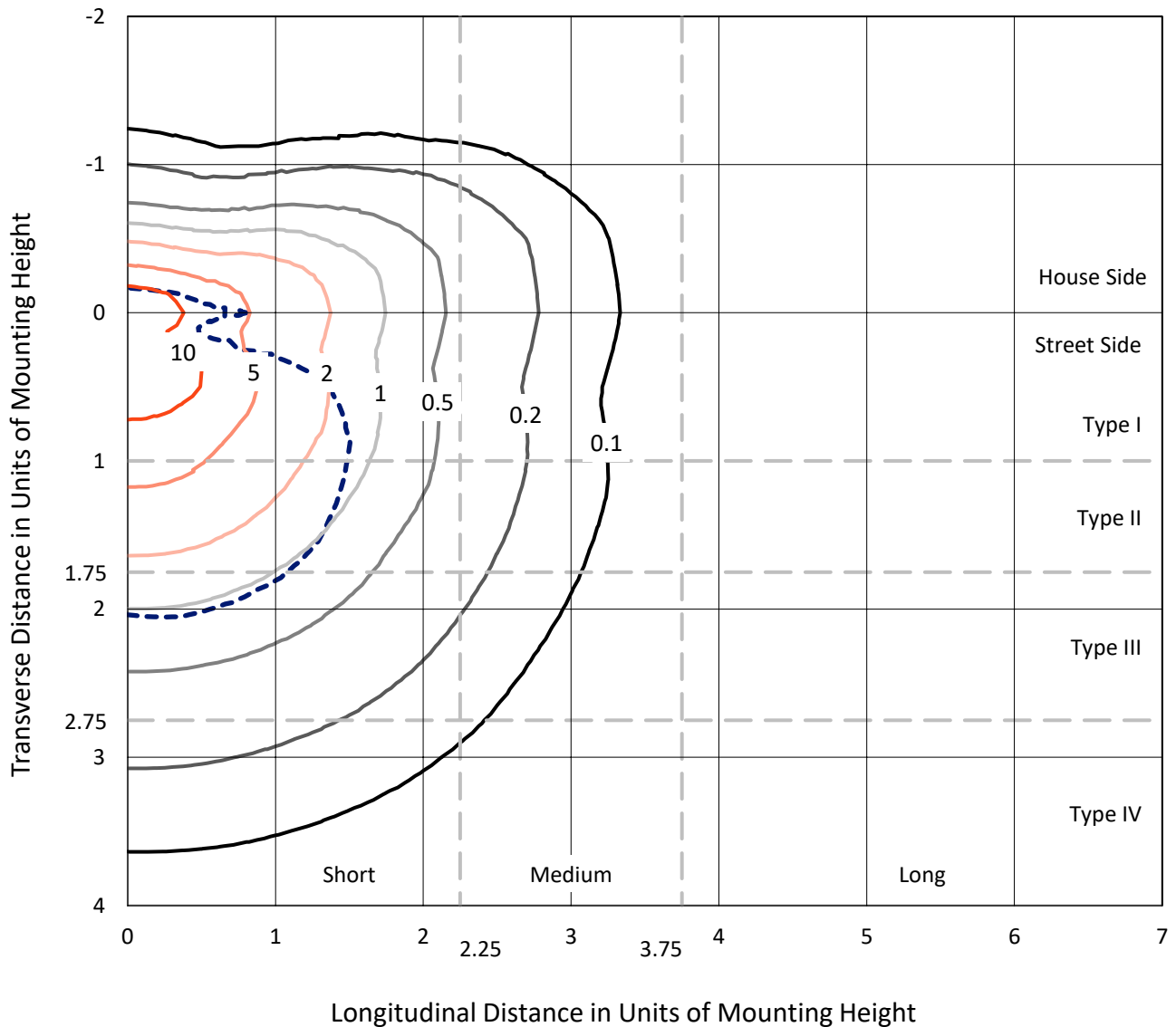
Lumens per Lamp: N/A  
Luminaire Lumens: 9232.3 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')  
IES Classification: Type III - Short  
BUG Rating: B2 - U3 - G2

Input Watts (W): 70.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

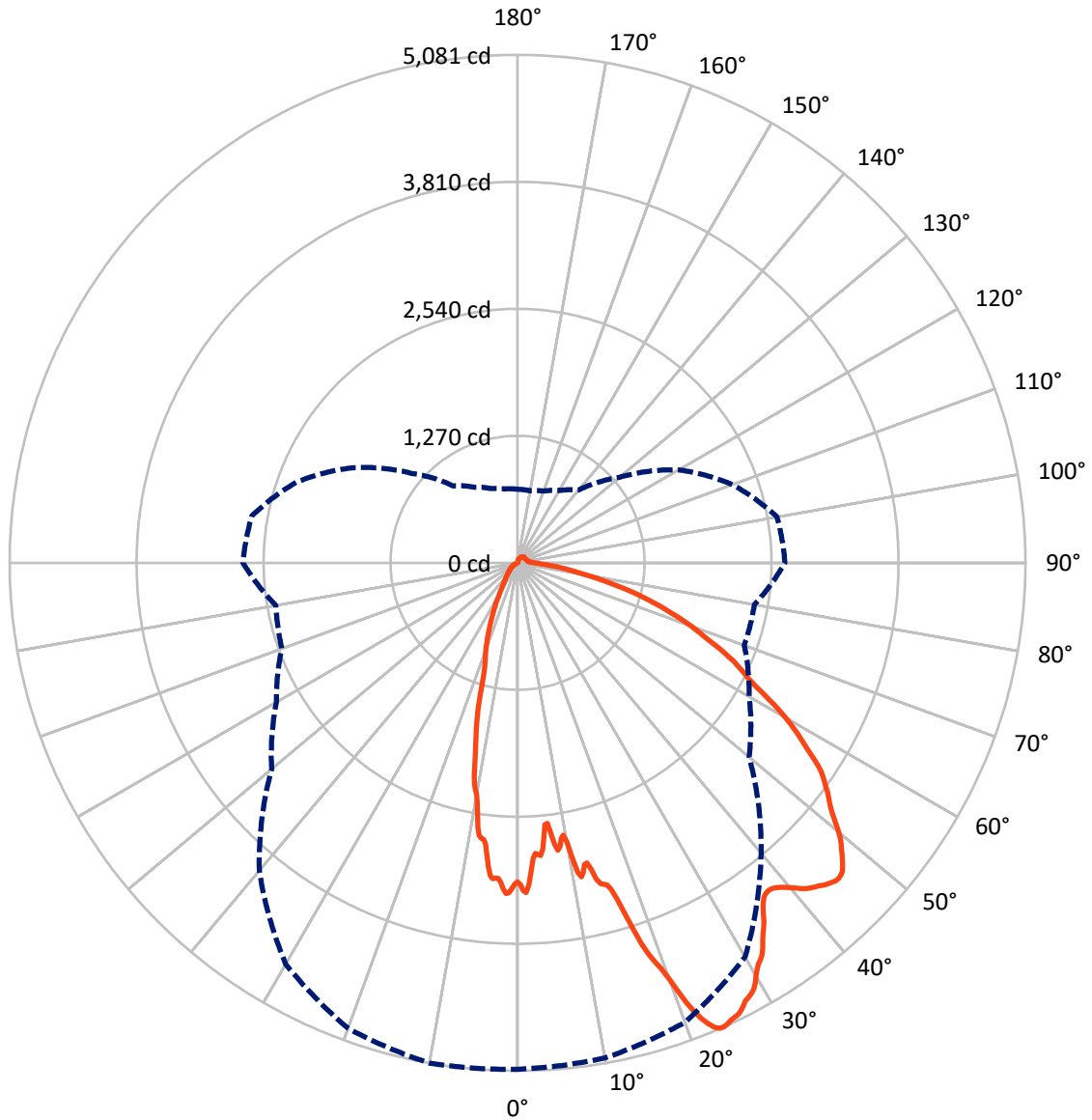
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 17.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 350-Deg Lateral    - - - Horizontal Cone Through 23.5-Deg Vertical

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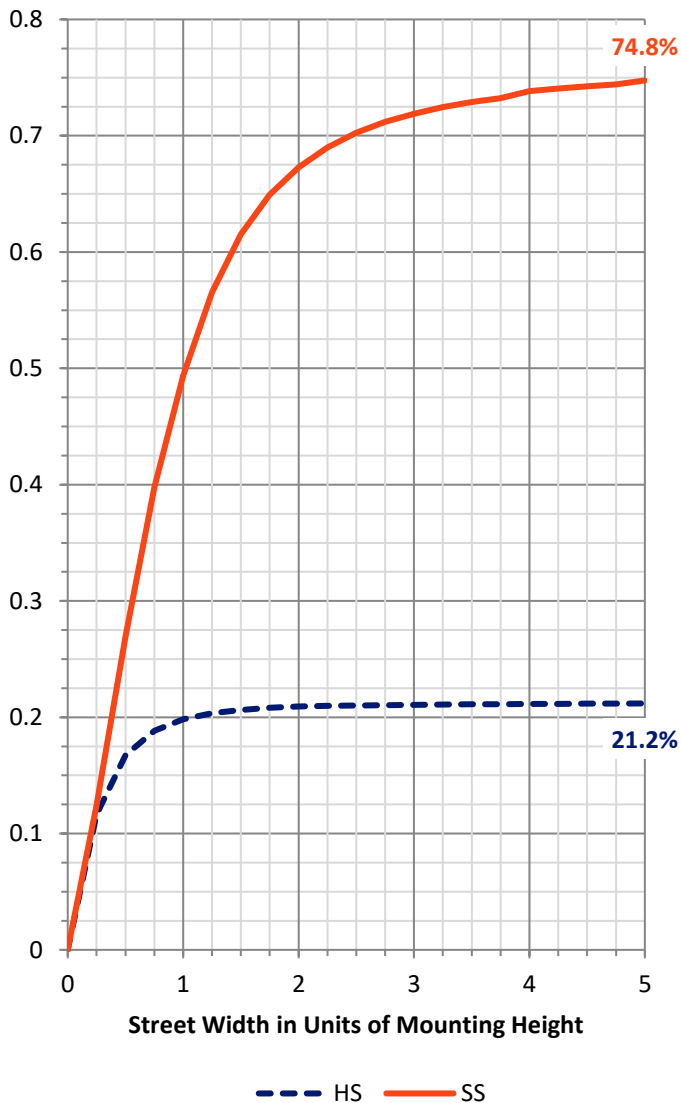
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1978.7	46.9	2025.6
	% Fixture	21.4	0.5	21.9
<b>Street Side</b>	Lumens	6976.5	230.1	7206.6
	% Fixture	75.6	2.5	78.1
<b>Total</b>	Lumens	8955.2	277.0	9232.3
	% Fixture	97.0	3.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.2	3.1
10°-20°	747.9	8.1
20°-30°	1173.0	12.7
30°-40°	1416.3	15.3
40°-50°	1613.2	17.5
50°-60°	1602.3	17.4
60°-70°	1226.5	13.3
70°-80°	683.6	7.4
80°-90°	209.3	2.3
90°-100°	62.3	0.7
100°-110°	50.4	0.5
110°-120°	46.3	0.5
120°-130°	41.8	0.5
130°-140°	36.1	0.4
140°-150°	25.0	0.3
150°-160°	12.0	0.1
160°-170°	2.9	0.0
170°-180°	0.4	0.0
0°-90°	8955.2	97.0
0°-180°	9232.3	100.0

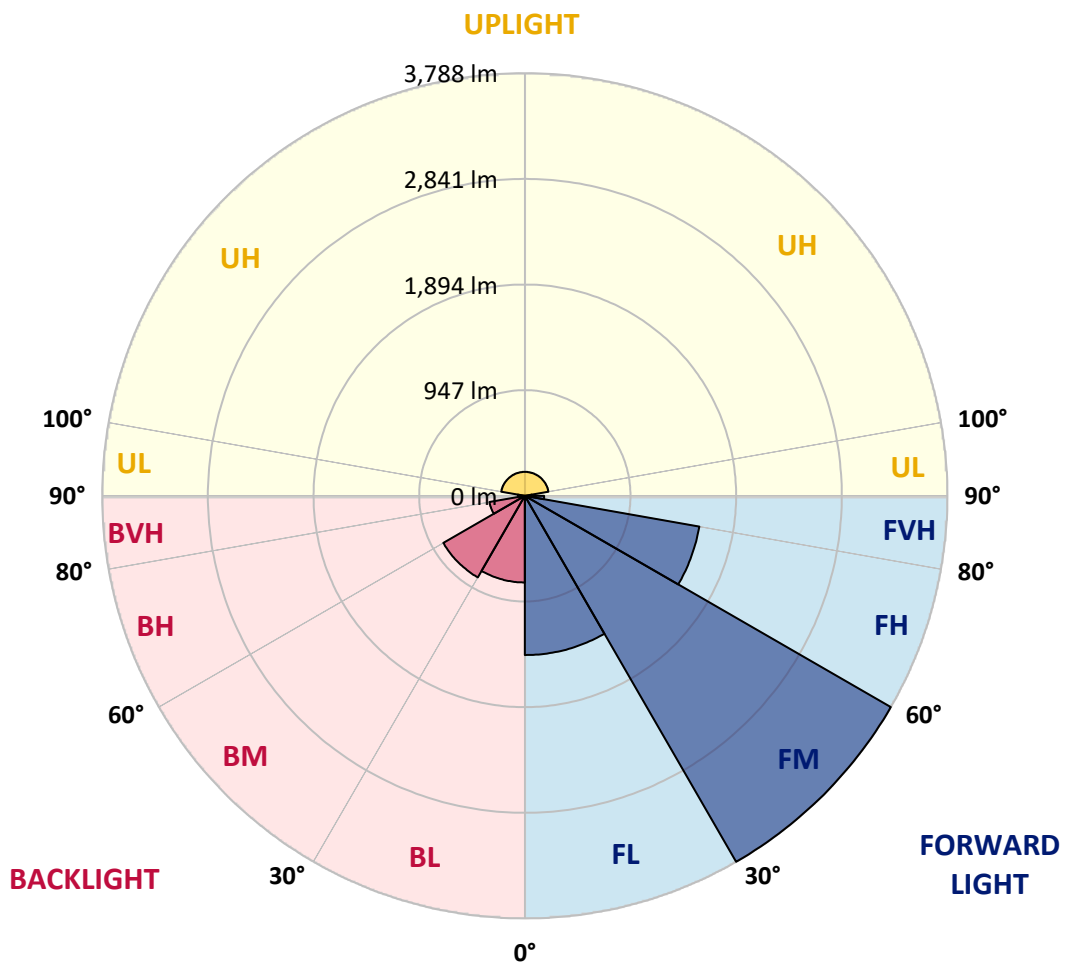


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.5	15.5			
FM (30°-60°)	3787.8	41.0			
FH (60°-80°)	1588.5	17.2			G1/1800
FVH (80°-90°)	172.8	1.9			G2/225
BL (0°-30°)	776.6	8.4	B2/1000		
BM (30°-60°)	843.9	9.1	B1/1000		
BH (60°-80°)	321.7	3.5	B1/500		G1/500
BVH (80°-90°)	36.6	0.4			G1/100
UL (90°-100°)	62.3	0.7		U3/500	
UH (100°-180°)	214.8	2.3		U3/500	

**BUG Rating: B2-U3-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
0.5°	3271.5	3270.2	3270.0	3270.9	3269.6	3262.8	3254.9	3245.6	3234.9	3224.5	3214.7
1°	3239.2	3242.4	3255.1	3268.2	3282.6	3286.4	3280.2	3267.2	3241.7	3221.3	3204.4
1.5°	3123.4	3132.7	3155.1	3192.9	3233.6	3266.4	3285.0	3278.3	3246.3	3214.6	3189.9
2°	2977.7	2987.8	3018.8	3071.2	3137.1	3204.0	3266.2	3283.0	3256.4	3208.1	3176.6
2.5°	2892.6	2898.4	2912.4	2950.9	3021.4	3118.5	3218.7	3273.1	3262.3	3205.6	3167.3
3°	2890.4	2885.2	2882.9	2889.5	2928.4	3023.2	3152.2	3251.6	3258.7	3197.3	3156.3
3.5°	2912.1	2906.4	2899.6	2883.9	2886.0	2939.2	3076.3	3215.6	3251.2	3187.4	3143.5
4°	2881.8	2890.9	2901.5	2898.1	2877.9	2890.1	3000.9	3171.2	3242.7	3182.8	3137.7
4.5°	2766.3	2791.4	2838.9	2890.9	2885.9	2869.8	2934.6	3122.3	3232.8	3170.3	3130.5
5°	2632.7	2652.4	2712.3	2815.7	2884.5	2864.8	2883.6	3064.6	3215.6	3158.5	3128.2
5.5°	2586.4	2585.7	2601.2	2696.2	2831.2	2872.5	2854.7	3009.3	3198.3	3146.3	3121.7
6°	2652.8	2627.6	2586.0	2597.6	2734.4	2864.2	2835.3	2953.6	3179.4	3133.8	3120.7
6.5°	2779.1	2744.4	2659.6	2580.2	2628.8	2822.0	2831.4	2901.9	3160.8	3122.2	3115.7
7°	2870.1	2854.4	2777.4	2638.9	2569.3	2748.5	2833.3	2858.7	3132.4	3109.9	3111.8
7.5°	2858.4	2866.8	2863.9	2742.2	2572.5	2652.5	2832.8	2825.1	3100.0	3092.6	3103.3
8°	2772.4	2787.4	2841.7	2834.7	2628.3	2574.6	2813.3	2798.0	3072.7	3077.2	3091.9
8.5°	2724.1	2716.6	2756.0	2848.2	2727.5	2531.3	2772.4	2779.2	3040.2	3057.7	3084.1
9°	2779.3	2734.1	2695.4	2785.8	2807.4	2530.0	2709.4	2764.3	3003.4	3045.7	3074.2
9.5°	2934.3	2874.9	2731.4	2706.5	2831.4	2579.8	2633.3	2757.3	2966.0	3037.1	3062.0
10°	3101.7	3044.1	2862.5	2679.9	2785.4	2660.7	2557.5	2753.4	2931.9	3025.0	3054.2
10.5°	3176.9	3151.9	3034.1	2745.4	2706.1	2732.7	2504.2	2750.4	2896.5	3017.0	3044.0
11°	3141.9	3146.0	3136.3	2891.6	2652.6	2775.4	2476.3	2743.4	2864.6	3012.7	3035.6
11.5°	3063.2	3072.7	3126.6	3038.0	2656.9	2767.6	2483.8	2729.8	2836.1	3005.2	3029.6
12°	3047.0	3023.2	3052.7	3116.4	2742.2	2720.6	2519.7	2705.5	2809.6	2998.7	3021.7
12.5°	3124.7	3070.6	2994.4	3099.7	2872.9	2654.9	2570.6	2664.6	2777.3	2992.9	3014.1
13°	3232.7	3176.9	3027.5	3022.7	2997.5	2608.7	2636.2	2623.8	2747.7	2982.6	3003.1
13.5°	3287.3	3249.5	3122.5	2958.3	3064.7	2604.5	2691.5	2571.3	2719.4	2968.5	2989.8
14°	3295.3	3263.4	3200.0	2976.1	3051.3	2654.0	2723.6	2521.8	2691.5	2951.9	2974.2
14.5°	3302.3	3250.9	3219.8	3059.6	2985.6	2759.0	2722.8	2474.5	2666.4	2936.7	2959.1
15°	3347.2	3269.3	3199.9	3132.5	2912.8	2874.4	2695.3	2433.9	2642.2	2925.4	2941.2
15.5°	3467.6	3360.1	3194.7	3160.9	2893.3	2971.9	2650.6	2405.0	2620.0	2909.7	2926.1
16°	3631.2	3506.2	3252.9	3140.2	2945.2	3018.7	2596.1	2389.4	2601.3	2895.6	2909.6
16.5°	3808.6	3683.5	3373.1	3112.8	3026.5	3010.3	2552.9	2390.6	2587.3	2880.6	2891.7
17°	3961.5	3845.9	3528.2	3129.9	3082.3	2958.9	2535.9	2405.8	2575.4	2866.0	2875.9
17.5°	4078.7	3961.1	3683.1	3204.2	3091.2	2892.3	2551.6	2428.0	2565.0	2852.5	2860.1
18°	4169.2	4061.6	3813.6	3329.5	3062.2	2840.9	2598.4	2460.9	2554.8	2836.7	2844.1
18.5°	4261.3	4148.1	3910.9	3470.8	3037.2	2838.4	2679.4	2500.2	2543.3	2822.3	2828.7
19°	4378.5	4242.0	3992.3	3597.3	3042.4	2882.3	2760.0	2532.2	2536.6	2806.3	2813.8
19.5°	4526.6	4368.7	4067.4	3703.0	3099.5	2944.1	2836.8	2561.5	2524.7	2789.7	2798.7
20°	4679.8	4523.6	4158.3	3785.9	3192.3	2982.2	2883.9	2574.2	2515.3	2773.9	2780.0
20.5°	4807.1	4676.6	4291.8	3869.6	3305.0	2985.2	2895.7	2574.4	2503.7	2756.9	2761.4
21°	4904.6	4790.8	4435.3	3946.8	3418.7	2959.3	2868.4	2562.0	2488.8	2743.0	2741.7
21.5°	4978.3	4889.3	4581.8	4029.7	3512.5	2925.7	2818.3	2539.2	2473.1	2728.0	2722.1
22°	5033.4	4966.3	4709.2	4140.9	3589.9	2902.3	2757.5	2504.6	2456.8	2713.7	2701.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	5060.6	5003.8	4802.6	4274.3	3659.8	2912.2	2703.2	2468.4	2441.1	2699.4	2680.3
23°	5070.6	5023.0	4863.0	4416.3	3724.3	2954.9	2670.8	2438.1	2423.4	2686.9	2658.9
23.5°	5065.0	5029.0	4891.7	4550.5	3790.0	3022.8	2674.6	2413.1	2405.2	2673.9	2636.2
24°	5047.7	5026.5	4919.5	4652.4	3855.7	3103.9	2702.5	2400.7	2385.1	2661.8	2615.5
24.5°	5030.8	5010.7	4938.4	4715.5	3935.8	3187.5	2743.3	2400.9	2363.1	2646.2	2594.8
25°	5005.0	4980.3	4939.2	4740.9	4041.6	3265.7	2775.4	2412.7	2343.9	2634.6	2574.4
25.5°	4978.0	4947.5	4916.0	4754.7	4163.8	3330.8	2789.7	2441.3	2321.2	2621.1	2555.5
26°	4946.9	4921.3	4871.9	4782.8	4283.0	3384.9	2779.9	2477.4	2303.4	2608.4	2538.2
26.5°	4926.1	4901.7	4831.6	4799.6	4385.1	3432.3	2755.8	2523.7	2286.9	2598.1	2520.1
27°	4910.1	4878.9	4809.8	4794.4	4449.9	3478.6	2727.6	2568.5	2274.5	2588.7	2502.5
27.5°	4874.4	4852.1	4789.2	4755.9	4465.6	3522.8	2709.0	2600.8	2263.5	2580.5	2486.7
28°	4831.5	4817.3	4774.1	4704.9	4461.5	3566.6	2706.3	2621.5	2253.6	2572.2	2470.8
28.5°	4782.2	4778.1	4750.0	4649.9	4462.0	3623.2	2721.1	2628.6	2247.1	2564.7	2457.5
29°	4735.6	4732.7	4718.4	4621.6	4489.2	3694.4	2753.4	2622.4	2241.3	2556.3	2445.0
29.5°	4687.6	4689.8	4682.6	4604.5	4515.1	3780.0	2798.0	2604.9	2238.1	2549.4	2434.0
30°	4650.1	4649.8	4636.7	4585.6	4508.9	3864.0	2845.1	2582.0	2239.1	2542.6	2422.3
30.5°	4610.6	4621.9	4599.2	4561.9	4467.2	3939.7	2893.4	2553.9	2241.2	2537.2	2411.7
31°	4567.7	4579.1	4571.9	4526.2	4398.5	3994.1	2941.6	2527.1	2245.7	2532.4	2401.1
31.5°	4521.0	4527.4	4550.5	4490.5	4341.9	4016.8	2980.8	2507.6	2249.9	2527.0	2391.6
32°	4470.5	4479.4	4511.9	4447.7	4309.1	4020.0	3010.8	2497.6	2255.7	2522.3	2382.5
32.5°	4430.9	4446.6	4451.6	4405.8	4295.7	4017.1	3038.2	2497.9	2261.4	2517.7	2374.8
33°	4385.8	4422.7	4398.6	4378.2	4277.7	4019.6	3060.7	2507.5	2270.0	2513.3	2366.3
33.5°	4322.3	4377.1	4364.4	4356.9	4250.0	4032.1	3086.0	2522.9	2277.4	2509.8	2356.1
34°	4246.1	4300.1	4350.0	4326.3	4218.7	4047.0	3117.3	2539.9	2284.3	2507.0	2344.3
34.5°	4184.5	4225.1	4321.0	4273.8	4190.0	4048.1	3147.1	2552.2	2288.3	2505.0	2333.8
35°	4143.1	4164.7	4260.3	4211.7	4156.7	4027.7	3178.8	2555.8	2291.1	2501.5	2324.8
35.5°	4118.1	4122.8	4176.8	4156.8	4121.9	3989.2	3217.6	2555.3	2292.4	2498.7	2316.3
36°	4105.3	4099.1	4109.2	4134.9	4081.8	3947.5	3257.0	2546.2	2289.1	2495.0	2306.4
36.5°	4108.4	4099.1	4064.4	4122.2	4048.8	3916.2	3298.0	2534.0	2285.1	2492.6	2297.6
37°	4123.8	4109.6	4035.8	4077.5	4028.9	3892.3	3334.4	2523.5	2279.8	2487.6	2288.7
37.5°	4141.9	4128.3	4020.8	4007.7	4004.4	3872.7	3364.1	2515.1	2272.8	2482.7	2280.2
38°	4169.3	4155.3	4016.0	3931.9	3974.1	3852.0	3386.7	2508.8	2265.1	2475.0	2269.0
38.5°	4197.1	4185.7	4020.9	3881.3	3927.0	3827.3	3400.6	2507.6	2255.7	2466.6	2258.9
39°	4230.0	4221.1	4029.8	3847.3	3882.7	3796.6	3404.3	2510.1	2246.9	2456.1	2247.2
39.5°	4262.1	4255.6	4050.7	3820.1	3854.2	3769.7	3404.7	2515.1	2236.2	2447.5	2234.9
40°	4294.2	4285.2	4076.6	3797.9	3842.1	3746.4	3404.7	2523.8	2227.4	2439.0	2223.7
40.5°	4324.8	4312.5	4101.4	3780.5	3824.1	3724.7	3404.9	2530.7	2220.7	2432.7	2214.2
41°	4351.0	4340.0	4124.4	3772.9	3788.2	3701.6	3403.0	2536.8	2214.5	2427.4	2205.7
41.5°	4376.6	4362.2	4146.0	3768.3	3741.6	3678.9	3398.3	2543.4	2211.7	2422.3	2197.6
42°	4391.1	4388.2	4168.0	3771.1	3698.7	3658.5	3385.0	2550.6	2208.9	2419.0	2191.1
42.5°	4415.9	4405.4	4188.1	3778.4	3666.9	3639.0	3369.7	2555.7	2208.1	2413.8	2184.0
43°	4442.9	4429.7	4215.2	3787.1	3642.6	3618.8	3348.2	2562.0	2208.3	2410.6	2177.7
43.5°	4463.5	4448.6	4236.9	3795.0	3621.9	3596.4	3323.8	2566.1	2210.1	2408.8	2174.0
44°	4478.1	4463.2	4256.5	3798.9	3602.8	3568.4	3302.0	2567.1	2213.1	2406.3	2169.8
44.5°	4474.7	4476.3	4268.2	3808.3	3589.3	3541.6	3282.6	2568.7	2217.9	2403.3	2168.2





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CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	4468.5	4469.4	4277.7	3813.8	3578.5	3520.6	3268.5	2567.8	2223.4	2400.2	2166.7
45.5°	4441.6	4466.4	4279.1	3816.0	3567.1	3499.7	3253.7	2569.5	2225.1	2397.7	2160.9
46°	4414.1	4442.6	4273.5	3817.0	3559.3	3482.7	3240.4	2573.3	2225.5	2391.9	2156.4
46.5°	4365.5	4411.9	4266.4	3813.8	3553.3	3464.1	3228.5	2577.4	2224.1	2385.7	2149.9
47°	4324.2	4365.2	4244.3	3809.6	3548.2	3439.3	3217.2	2580.8	2217.6	2379.6	2142.8
47.5°	4277.7	4321.1	4219.7	3798.2	3543.2	3408.9	3204.7	2585.4	2210.1	2371.9	2136.5
48°	4246.8	4292.6	4179.4	3780.3	3533.7	3380.7	3190.3	2586.8	2199.8	2363.4	2130.3
48.5°	4208.8	4265.2	4145.0	3763.2	3519.5	3353.2	3174.0	2585.6	2188.5	2355.6	2121.5
49°	4158.9	4228.2	4102.3	3745.3	3504.1	3325.8	3155.4	2587.3	2177.4	2347.4	2110.9
49.5°	4101.3	4182.0	4072.7	3723.5	3489.9	3298.0	3137.3	2585.4	2161.9	2337.5	2102.6
50°	4044.1	4118.6	4041.1	3698.5	3470.5	3273.7	3120.5	2585.8	2146.4	2326.4	2092.1
50.5°	3999.0	4062.4	4003.0	3668.8	3452.2	3248.3	3105.4	2585.6	2129.6	2316.0	2082.0
51°	3960.7	4004.6	3951.2	3639.1	3430.2	3219.2	3086.6	2580.3	2110.9	2303.4	2070.9
51.5°	3927.7	3960.1	3904.4	3604.9	3404.1	3189.5	3066.4	2574.7	2090.5	2289.7	2059.1
52°	3893.7	3931.0	3855.7	3572.8	3374.5	3160.4	3044.8	2567.8	2070.6	2274.5	2044.0
52.5°	3863.2	3904.2	3806.0	3540.0	3343.0	3130.0	3023.2	2557.8	2049.2	2262.1	2027.6
53°	3821.2	3872.1	3769.3	3511.8	3311.1	3095.7	2999.5	2545.6	2026.2	2244.8	2011.0
53.5°	3779.1	3824.2	3741.8	3484.5	3276.9	3060.7	2972.7	2533.5	2004.2	2224.8	1994.3
54°	3741.0	3779.7	3722.4	3446.8	3246.0	3027.6	2945.3	2518.2	1980.8	2204.7	1979.5
54.5°	3698.3	3732.2	3689.6	3414.0	3216.4	2993.0	2913.1	2501.7	1957.4	2177.1	1961.7
55°	3643.6	3679.8	3638.0	3384.5	3184.0	2960.7	2878.4	2481.1	1930.1	2149.1	1939.0
55.5°	3577.1	3615.9	3583.3	3355.8	3152.5	2926.3	2843.5	2451.7	1903.4	2122.4	1916.6
56°	3508.1	3549.6	3535.1	3328.0	3115.6	2892.7	2808.5	2418.5	1878.0	2094.3	1894.5
56.5°	3430.9	3474.9	3481.4	3297.1	3083.2	2858.8	2772.2	2383.0	1851.3	2064.5	1873.2
57°	3369.0	3402.0	3416.1	3257.0	3053.8	2828.3	2730.7	2345.1	1823.3	2034.1	1854.4
57.5°	3312.1	3344.3	3351.0	3210.2	3027.2	2796.6	2688.1	2310.8	1795.8	2001.8	1834.6
58°	3250.6	3295.9	3284.2	3157.8	2999.3	2767.0	2643.6	2277.3	1768.3	1970.3	1814.4
58.5°	3191.3	3244.5	3221.5	3102.3	2968.1	2736.6	2598.6	2242.3	1738.7	1938.0	1796.9
59°	3123.9	3187.6	3162.0	3047.6	2924.7	2703.6	2555.4	2202.1	1710.4	1907.7	1779.8
59.5°	3047.3	3120.0	3105.9	2992.3	2875.0	2669.4	2513.7	2162.8	1683.4	1874.3	1755.8
60°	2958.1	3042.1	3049.4	2943.0	2824.4	2632.8	2469.7	2123.8	1654.5	1839.2	1733.1
60.5°	2872.1	2953.8	2983.9	2892.6	2772.5	2590.5	2425.4	2083.9	1625.5	1805.4	1706.1
61°	2786.8	2868.2	2908.2	2843.7	2723.7	2547.9	2379.6	2042.6	1595.1	1771.1	1678.8
61.5°	2707.2	2783.9	2830.9	2790.0	2673.2	2506.0	2336.8	2002.6	1566.4	1740.0	1657.3
62°	2639.0	2711.3	2753.1	2734.9	2618.3	2461.3	2292.3	1961.2	1538.6	1708.8	1635.9
62.5°	2578.7	2646.0	2676.6	2668.4	2566.6	2407.5	2250.5	1919.0	1510.9	1675.5	1606.4
63°	2535.3	2587.6	2606.6	2603.5	2518.7	2356.2	2209.2	1878.1	1484.8	1641.8	1579.6
63.5°	2494.6	2537.8	2543.3	2539.5	2467.2	2304.7	2168.8	1840.0	1455.6	1608.9	1550.4
64°	2450.1	2495.8	2484.0	2475.2	2412.1	2251.0	2125.4	1801.4	1425.4	1574.1	1521.2
64.5°	2401.6	2453.2	2431.7	2413.8	2356.0	2192.8	2083.7	1765.6	1395.4	1540.8	1490.0
65°	2353.6	2404.1	2389.3	2361.9	2301.5	2136.7	2042.7	1728.9	1363.1	1506.2	1457.8
65.5°	2288.3	2339.0	2339.7	2310.7	2248.7	2079.6	2000.4	1689.4	1332.7	1471.9	1428.1
66°	2214.4	2272.7	2286.8	2261.3	2196.3	2023.4	1954.6	1647.8	1300.9	1440.4	1397.0
66.5°	2143.5	2197.5	2222.1	2214.3	2145.1	1967.8	1901.7	1608.2	1271.6	1408.2	1364.2
67°	2077.4	2122.2	2161.0	2162.7	2095.2	1916.7	1846.0	1569.0	1240.6	1376.2	1329.2



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CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2016.2	2057.0	2095.9	2104.1	2042.9	1868.6	1788.5	1529.2	1209.6	1341.9	1301.0
68°	1961.3	1999.7	2028.3	2044.2	1990.1	1818.0	1734.1	1490.6	1179.2	1308.6	1267.8
68.5°	1907.7	1939.5	1960.3	1983.8	1938.3	1771.4	1675.6	1449.7	1149.2	1276.6	1235.6
69°	1858.0	1881.5	1898.3	1922.6	1884.2	1726.8	1618.9	1412.2	1117.3	1244.0	1201.2
69.5°	1802.9	1830.2	1838.6	1859.3	1827.0	1681.9	1561.8	1374.0	1082.9	1207.6	1165.3
70°	1741.5	1769.9	1779.9	1800.7	1769.0	1630.8	1506.9	1335.1	1049.9	1172.5	1134.8
70.5°	1681.2	1710.7	1724.6	1744.5	1712.3	1578.9	1457.4	1296.1	1015.7	1137.8	1097.2
71°	1622.7	1651.6	1667.7	1690.1	1652.5	1527.9	1405.9	1257.9	983.6	1100.9	1062.2
71.5°	1564.2	1590.7	1606.8	1630.6	1591.9	1473.5	1356.7	1223.3	953.3	1067.2	1025.2
72°	1511.7	1537.6	1546.0	1571.4	1534.9	1419.5	1309.0	1186.5	922.9	1033.1	987.8
72.5°	1459.3	1483.9	1493.4	1513.3	1479.6	1364.7	1259.9	1149.9	892.5	999.3	953.6
73°	1401.9	1432.0	1442.0	1457.4	1422.3	1311.5	1213.0	1116.3	863.3	965.3	919.1
73.5°	1344.0	1375.4	1386.8	1399.8	1367.7	1259.7	1169.1	1080.1	832.8	931.9	883.8
74°	1287.3	1318.4	1328.6	1343.5	1314.1	1207.8	1128.9	1040.2	801.0	898.7	849.3
74.5°	1221.7	1252.5	1271.0	1286.7	1259.9	1158.1	1088.8	993.6	770.9	862.7	816.8
75°	1158.0	1184.0	1208.6	1229.9	1208.4	1110.2	1049.3	949.2	741.0	829.6	784.6
75.5°	1095.4	1121.1	1148.8	1173.1	1156.9	1063.6	1007.7	903.5	706.5	793.0	751.1
76°	1032.6	1058.8	1087.8	1113.0	1104.1	1014.5	964.7	854.3	671.9	756.6	718.3
76.5°	972.9	998.3	1027.8	1054.7	1051.9	966.6	919.6	805.2	636.6	721.2	687.8
77°	916.5	941.8	972.7	998.6	1000.1	920.8	875.2	761.3	605.6	687.3	656.0
77.5°	860.4	886.6	917.4	943.1	945.5	876.1	829.8	718.0	575.0	651.2	624.7
78°	807.2	830.9	864.6	888.7	895.1	829.4	783.3	678.1	543.1	616.3	591.7
78.5°	757.6	780.4	811.8	836.6	844.1	783.4	739.2	638.5	514.1	580.4	560.8
79°	709.7	731.7	757.8	785.7	792.3	739.8	701.1	603.0	485.6	545.9	530.5
79.5°	660.9	682.6	708.1	734.6	740.9	696.1	663.9	567.9	457.2	512.7	509.8
80°	620.0	638.7	660.4	685.9	692.8	652.7	625.7	535.5	428.8	481.2	479.6
80.5°	579.7	598.5	613.2	638.2	646.8	613.7	590.8	504.6	400.4	449.7	448.7
81°	541.9	557.3	571.0	592.1	602.6	575.3	555.0	474.1	372.0	418.3	417.9
81.5°	508.8	521.3	530.9	549.5	558.7	535.5	518.2	443.7	346.8	386.8	387.0
82°	476.6	488.1	495.6	510.4	516.5	494.7	483.8	413.2	322.2	355.4	356.9
82.5°	444.4	455.1	462.8	477.1	482.6	460.9	449.5	382.8	297.2	327.4	328.4
83°	412.1	422.1	430.0	444.3	448.8	427.0	415.3	353.7	271.8	299.6	302.0
83.5°	379.9	389.1	397.2	411.5	415.1	393.1	381.0	327.7	248.1	272.6	278.5
84°	347.7	356.1	364.4	378.6	381.4	359.3	346.7	302.2	225.7	245.7	254.4
84.5°	320.8	329.3	336.0	345.8	347.7	331.2	317.8	276.4	204.3	219.8	230.0
85°	295.1	304.0	309.6	318.5	321.0	305.7	290.7	252.9	183.7	194.8	206.5
85.5°	273.0	281.4	285.8	294.0	297.3	282.5	265.0	230.1	165.2	172.1	185.1
86°	252.8	260.4	264.1	271.6	275.2	261.3	242.6	208.9	148.7	150.3	164.9
86.5°	234.5	241.3	244.2	251.0	254.7	242.1	222.2	188.6	132.2	129.5	145.2
87°	218.1	224.8	226.9	231.9	235.6	224.4	204.9	170.0	116.9	111.0	127.3
87.5°	204.1	209.6	211.6	215.4	218.7	208.7	189.1	155.5	103.9	94.5	110.8
88°	191.0	195.0	197.4	199.6	202.8	194.1	174.2	141.7	93.4	79.9	95.8
88.5°	180.1	183.5	184.6	186.4	188.8	181.0	162.0	130.7	84.7	67.5	84.2
89°	170.2	172.9	173.4	174.5	175.8	169.3	151.1	121.0	77.5	58.1	75.0
89.5°	161.2	163.3	163.1	163.4	164.2	158.9	141.4	113.2	71.5	50.3	67.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	153.7	155.0	154.0	153.7	154.0	149.5	132.9	106.1	66.7	46.1	61.9
90.5°	146.9	148.1	146.6	145.8	145.4	141.7	125.3	100.5	63.0	41.9	56.7
91°	141.0	141.9	139.8	138.3	137.7	134.0	118.7	95.8	60.0	37.8	52.7
91.5°	136.1	136.9	134.2	131.8	130.4	126.7	113.2	91.8	57.4	33.6	50.8
92°	131.6	132.1	128.7	125.6	123.0	120.6	108.5	88.6	55.3	31.5	49.0
92.5°	126.6	127.1	123.1	119.3	117.3	115.5	104.6	85.9	53.7	30.1	47.2
93°	121.9	122.2	118.0	114.3	112.8	110.9	101.1	83.5	52.5	29.2	45.4
93.5°	118.6	118.9	114.4	110.7	108.8	106.9	98.1	81.4	51.7	28.7	43.6
94°	116.2	116.4	111.6	107.5	105.2	103.5	95.4	79.6	51.0	28.3	43.0
94.5°	114.3	114.4	109.3	104.8	102.0	100.4	93.0	77.8	50.3	28.2	42.6
95°	112.8	112.9	107.5	102.4	99.3	97.7	90.7	76.2	49.7	28.1	41.8
95.5°	111.3	111.4	105.8	100.7	97.1	95.4	88.8	74.8	49.0	28.0	41.4
96°	109.6	109.8	104.4	99.1	95.2	93.3	87.0	73.5	48.6	27.9	41.2
96.5°	108.6	108.8	103.2	97.6	93.4	91.4	85.3	72.2	48.2	28.0	41.1
97°	107.9	108.0	102.4	96.4	91.8	89.6	83.6	71.1	48.1	28.3	40.8
97.5°	107.3	107.3	101.7	95.5	90.6	88.0	82.1	70.1	48.2	28.6	40.6
98°	106.5	106.6	101.0	94.6	89.3	86.4	80.6	69.4	48.3	29.0	40.3
98.5°	105.7	106.0	100.4	93.7	88.2	85.1	79.4	68.7	48.4	29.3	40.0
99°	105.2	105.3	99.8	92.9	87.2	83.8	78.2	68.2	48.6	29.7	39.6
99.5°	104.5	104.7	99.2	92.2	86.5	82.7	77.3	67.8	48.7	30.1	39.3
100°	103.7	103.9	98.5	91.6	85.6	81.6	76.4	67.4	48.9	30.4	38.9
100.5°	102.9	103.2	98.0	90.9	84.8	80.8	75.7	67.2	49.2	30.8	38.6
101°	102.1	102.5	97.1	89.9	84.2	80.2	75.1	67.0	49.4	31.3	38.4
101.5°	100.2	100.9	95.9	89.3	83.8	79.7	74.6	66.9	49.6	31.7	38.2
102°	98.7	99.6	95.2	89.1	83.7	79.3	74.3	66.8	49.9	32.2	38.1
102.5°	98.0	99.0	95.1	89.2	83.6	78.9	73.8	66.8	50.3	32.7	38.0
103°	98.2	99.4	95.4	89.2	83.4	78.6	73.4	66.7	50.7	33.2	38.0
103.5°	98.1	99.4	95.4	89.1	83.2	78.3	73.0	66.7	51.2	33.7	38.0
104°	97.7	99.0	95.0	88.8	83.0	78.0	72.7	66.7	51.6	34.2	38.1
104.5°	97.1	98.5	94.7	88.6	82.8	77.7	72.4	66.6	52.0	34.7	38.2
105°	96.5	98.1	94.4	88.4	82.7	77.4	72.1	66.6	52.5	35.2	38.4
105.5°	96.0	97.6	94.1	88.2	82.6	77.2	71.8	66.6	52.9	35.7	38.6
106°	95.4	97.1	93.7	88.1	82.5	77.0	71.5	66.5	53.3	36.2	38.8
106.5°	94.9	96.6	93.4	88.0	82.3	76.7	71.3	66.4	53.6	36.7	39.1
107°	94.6	96.2	93.1	87.7	82.1	76.5	71.0	66.4	54.0	37.2	39.3
107.5°	94.2	95.8	92.7	87.4	82.0	76.2	70.7	66.3	54.3	37.6	39.6
108°	93.7	95.2	92.2	87.1	81.8	75.9	70.4	66.3	54.7	38.1	39.8
108.5°	93.1	94.5	91.8	86.7	81.5	75.7	70.2	66.4	55.2	38.5	40.1
109°	92.5	93.9	91.2	86.4	81.3	75.4	70.1	66.5	55.6	38.9	40.3
109.5°	91.7	93.1	90.7	86.0	81.0	75.2	70.0	66.7	56.0	39.3	40.6
110°	90.9	92.3	90.2	85.6	80.8	75.0	69.9	66.9	56.4	39.7	40.8
110.5°	90.0	91.6	89.6	85.2	80.6	74.8	69.8	67.0	56.8	40.1	41.1
111°	89.3	90.9	89.0	84.8	80.4	74.6	69.7	67.2	57.2	40.6	41.3
111.5°	88.5	90.1	88.5	84.4	80.1	74.5	69.6	67.4	57.6	41.0	41.5
112°	87.7	89.4	87.9	84.1	79.8	74.4	69.6	67.6	58.0	41.3	41.7



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	87.0	88.7	87.4	83.7	79.4	74.3	69.6	67.7	58.3	41.7	41.9
113°	86.3	88.0	86.8	83.2	79.1	74.2	69.6	68.0	58.7	42.0	42.1
113.5°	85.7	87.5	86.4	82.7	78.9	74.1	69.6	68.1	59.0	42.3	42.3
114°	85.2	87.0	85.8	82.3	78.8	74.0	69.6	68.3	59.3	42.6	42.5
114.5°	84.7	86.5	85.2	81.9	78.7	74.0	69.6	68.5	59.5	42.9	42.6
115°	84.1	85.9	84.7	81.7	78.5	73.9	69.6	68.6	59.8	43.2	42.8
115.5°	83.6	85.3	84.2	81.5	78.3	73.8	69.6	68.8	60.0	43.4	42.9
116°	83.0	84.7	83.8	81.3	78.2	73.7	69.6	68.9	60.2	43.6	43.0
116.5°	82.6	84.3	83.5	81.1	78.1	73.6	69.6	68.9	60.4	43.8	43.1
117°	82.2	83.9	83.3	80.9	78.0	73.5	69.6	69.0	60.6	43.9	43.2
117.5°	82.0	83.6	83.0	80.8	77.9	73.5	69.6	69.0	60.7	44.0	43.3
118°	81.8	83.3	82.8	80.8	77.8	73.4	69.6	69.0	60.8	44.0	43.3
118.5°	81.7	83.1	82.7	80.7	77.6	73.4	69.5	69.0	60.7	43.9	43.4
119°	81.6	82.9	82.6	80.6	77.5	73.4	69.6	69.0	60.7	43.8	43.4
119.5°	81.6	82.8	82.6	80.5	77.4	73.3	69.6	69.0	60.6	43.7	43.5
120°	81.7	82.8	82.7	80.5	77.3	73.3	69.6	69.0	60.5	43.6	43.6
120.5°	81.8	82.9	82.8	80.4	77.2	73.3	69.7	69.0	60.4	43.4	43.7
121°	81.9	82.9	82.8	80.4	77.1	73.4	69.7	69.0	60.3	43.3	43.7
121.5°	82.0	83.0	82.8	80.3	77.1	73.4	69.8	69.0	60.1	43.1	43.7
122°	82.1	83.0	82.8	80.3	77.1	73.4	69.9	69.1	59.9	42.9	43.7
122.5°	82.2	83.2	82.8	80.3	77.1	73.5	70.0	69.1	59.7	42.6	43.6
123°	82.4	83.3	82.9	80.3	77.1	73.6	70.1	69.1	59.4	42.4	43.6
123.5°	82.5	83.4	83.0	80.3	77.1	73.8	70.2	69.1	59.1	42.1	43.5
124°	82.7	83.5	83.1	80.2	77.1	73.9	70.4	69.1	58.9	41.9	43.5
124.5°	82.9	83.7	83.3	80.1	77.1	74.1	70.5	69.2	58.6	41.6	43.4
125°	83.1	83.9	83.4	80.1	77.2	74.2	70.7	69.3	58.3	41.4	43.3
125.5°	83.3	84.1	83.5	80.0	77.3	74.4	71.0	69.4	57.9	41.1	43.2
126°	83.5	84.3	83.5	80.0	77.4	74.6	71.3	69.6	57.7	40.9	43.1
126.5°	83.7	84.4	83.6	79.9	77.5	74.8	71.5	69.7	57.5	40.7	43.0
127°	83.7	84.5	83.7	79.8	77.6	75.1	71.8	69.9	57.3	40.5	43.0
127.5°	83.8	84.6	83.8	79.8	77.7	75.3	72.2	70.1	57.2	40.4	43.0
128°	83.8	84.7	83.9	79.7	77.9	75.5	72.5	70.3	57.0	40.3	43.1
128.5°	83.8	84.8	83.9	79.6	78.0	75.7	72.8	70.5	56.9	40.3	43.1
129°	83.8	84.9	83.9	79.6	78.1	75.9	73.3	70.8	56.8	40.3	43.2
129.5°	83.8	84.8	83.9	79.5	78.2	76.2	73.6	71.0	56.8	40.3	43.3
130°	83.7	84.8	84.0	79.5	78.3	76.3	74.0	71.2	56.7	40.4	43.4
130.5°	83.7	84.8	84.0	79.4	78.4	76.5	74.4	71.5	56.7	40.5	43.6
131°	83.6	84.8	84.0	79.3	78.4	76.6	74.8	71.8	56.8	40.7	43.7
131.5°	83.5	84.7	84.0	79.2	78.5	76.8	75.3	72.1	56.8	40.8	43.9
132°	83.4	84.6	84.0	79.0	78.5	76.9	75.7	72.3	56.8	40.9	44.0
132.5°	83.1	84.5	83.8	78.9	78.4	77.0	76.0	72.5	56.9	41.1	44.1
133°	82.8	84.3	83.7	78.7	78.2	77.1	76.4	72.7	56.9	41.2	44.2
133.5°	82.5	84.0	83.5	78.5	78.1	77.1	76.6	72.9	56.9	41.4	44.3
134°	82.0	83.8	83.3	78.2	77.8	77.1	76.9	73.1	56.9	41.6	44.4
134.5°	81.5	83.4	83.0	78.0	77.5	77.1	77.0	73.2	56.9	41.7	44.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	81.0	83.1	82.7	77.7	77.1	77.1	77.2	73.4	56.9	41.8	44.5
135.5°	80.4	82.7	82.4	77.5	76.8	77.1	77.2	73.4	56.8	41.9	44.6
136°	79.8	82.3	82.0	77.2	76.3	77.0	77.3	73.4	56.8	42.0	44.6
136.5°	79.1	81.8	81.6	76.9	75.9	76.8	77.3	73.4	56.7	42.1	44.6
137°	78.3	81.2	81.1	76.6	75.5	76.7	77.2	73.4	56.6	42.2	44.6
137.5°	77.6	80.6	80.6	76.2	74.9	76.4	77.0	73.3	56.4	42.3	44.6
138°	76.7	79.9	80.1	75.8	74.3	76.1	76.9	73.1	56.3	42.4	44.5
138.5°	75.9	79.2	79.6	74.8	73.7	75.7	76.6	72.8	56.1	42.4	44.4
139°	75.1	78.5	79.0	74.3	73.1	75.3	76.2	72.5	55.8	42.4	44.3
139.5°	74.5	77.9	78.3	74.0	72.6	74.8	75.8	72.2	55.5	42.4	44.1
140°	73.7	77.2	77.5	73.6	72.0	74.3	75.4	71.8	55.2	42.3	43.8
140.5°	73.1	76.3	76.5	73.2	71.4	73.7	74.8	71.2	54.8	42.2	43.6
141°	72.1	75.3	75.3	72.8	70.9	73.0	74.1	70.7	54.3	42.0	43.3
141.5°	71.2	74.4	74.5	72.4	70.3	72.3	73.4	70.0	53.8	41.9	42.9
142°	70.1	73.0	73.9	71.9	69.7	71.5	72.7	69.3	53.3	41.6	42.5
142.5°	67.9	72.0	73.2	71.4	69.1	70.7	71.9	68.5	52.7	41.4	42.1
143°	67.2	71.3	72.5	70.8	68.5	69.8	71.0	67.7	52.0	41.1	41.5
143.5°	66.8	70.5	71.8	70.2	67.9	68.8	70.1	66.7	51.3	40.7	41.0
144°	66.2	69.8	71.1	69.6	67.3	67.9	69.1	65.7	50.6	40.3	40.5
144.5°	65.7	69.0	70.4	68.9	66.7	66.9	68.0	64.6	49.8	39.8	39.9
145°	65.2	68.2	69.6	68.3	66.0	65.9	66.9	63.5	48.9	39.3	39.3
145.5°	64.6	67.4	68.8	67.5	65.4	64.9	65.8	62.3	48.0	38.8	38.6
146°	64.0	66.6	68.0	66.7	64.5	63.9	64.7	61.1	47.1	38.2	37.9
146.5°	63.4	65.7	67.2	65.8	63.7	62.9	63.4	59.7	46.1	37.6	37.2
147°	62.7	64.8	66.4	64.9	62.9	61.8	62.1	58.4	45.1	36.9	36.4
147.5°	62.0	64.0	65.5	64.0	62.0	60.8	60.9	57.0	44.0	36.3	35.6
148°	61.3	63.0	64.5	63.1	61.0	59.8	59.6	55.5	42.9	35.5	34.8
148.5°	60.6	62.1	63.5	62.1	60.0	58.7	58.3	54.0	41.8	34.8	33.9
149°	59.8	61.1	62.6	61.1	59.1	57.6	56.9	52.5	40.7	34.0	33.0
149.5°	59.1	60.1	61.6	59.9	58.0	56.5	55.4	51.0	39.5	33.2	32.2
150°	58.3	59.1	60.6	58.8	57.0	55.3	53.9	49.5	38.3	32.3	31.3
150.5°	57.5	58.0	59.5	57.7	55.8	54.1	52.5	48.0	37.1	31.5	30.4
151°	56.7	57.0	58.4	56.6	54.7	53.0	51.0	46.5	35.9	30.6	29.4
151.5°	55.7	55.9	57.1	55.4	53.5	52.3	49.6	45.0	34.6	29.7	28.5
152°	54.8	54.8	55.9	54.3	52.4	51.0	48.1	43.4	33.4	28.8	27.6
152.5°	53.8	53.6	54.6	53.1	51.2	49.8	46.7	41.7	32.2	27.9	26.7
153°	52.7	52.4	53.3	51.6	50.1	48.5	45.2	40.1	30.9	26.9	25.7
153.5°	52.3	51.4	52.2	50.6	48.9	47.2	43.6	38.4	29.7	26.0	24.8
154°	51.3	50.4	51.1	49.6	47.7	45.9	41.9	36.8	28.5	25.1	23.9
154.5°	50.3	49.3	49.9	48.6	46.6	44.6	40.2	35.2	27.3	24.2	23.0
155°	49.3	48.3	48.7	47.6	45.3	43.1	38.5	33.6	26.2	23.2	22.1
155.5°	48.3	47.3	47.5	46.3	43.9	41.5	36.8	32.1	25.0	22.3	21.2
156°	47.2	46.1	46.4	45.0	42.6	39.8	35.1	30.5	23.9	21.4	20.3
156.5°	46.2	45.0	45.0	43.6	41.3	38.0	33.5	29.0	22.8	20.5	19.4
157°	45.1	43.8	43.7	42.2	40.0	36.3	31.8	27.5	21.7	19.6	18.6



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	44.0	42.7	42.3	40.9	38.7	34.5	30.2	26.1	20.7	18.8	17.8
158°	42.8	41.5	41.0	39.5	37.4	32.8	28.5	24.7	19.6	17.9	17.0
158.5°	41.6	40.2	39.6	38.2	36.0	31.0	26.8	23.3	18.6	17.1	16.1
159°	40.4	38.9	38.3	36.9	34.2	29.2	25.2	21.9	17.6	16.3	15.3
159.5°	39.1	37.7	37.0	35.5	32.1	27.4	23.6	20.6	16.6	15.4	14.6
160°	37.9	36.5	35.7	34.2	30.2	25.7	22.1	19.4	15.7	14.6	13.8
160.5°	36.6	35.3	34.4	32.8	28.3	24.0	20.8	18.2	14.8	13.9	13.1
161°	35.4	34.1	33.1	31.2	26.3	22.4	19.4	16.9	13.9	13.1	12.4
161.5°	34.3	32.9	31.8	29.1	24.4	20.7	18.1	15.8	13.0	12.3	11.6
162°	33.0	31.7	30.5	26.9	22.5	19.0	16.8	14.7	12.1	11.6	10.9
162.5°	31.7	30.4	28.6	24.8	20.6	17.3	15.6	13.6	11.3	10.9	10.3
163°	30.3	29.0	26.4	22.7	18.9	15.6	14.4	12.6	10.5	10.2	9.6
163.5°	28.1	26.6	24.2	20.8	17.2	13.9	13.3	11.6	9.8	9.5	9.0
164°	25.7	24.3	22.0	19.0	15.6	12.7	12.2	10.7	9.0	8.9	8.4
164.5°	23.2	22.1	19.9	17.2	13.9	11.6	11.1	9.8	8.4	8.2	7.8
165°	20.9	19.9	17.9	15.6	12.2	10.7	10.2	9.0	7.7	7.7	7.3
165.5°	18.7	17.8	16.1	13.9	10.5	9.7	9.2	8.2	7.1	7.1	6.8
166°	16.6	16.0	14.4	12.3	8.9	8.8	8.4	7.4	6.5	6.6	6.3
166.5°	14.8	14.2	12.7	10.7	8.2	8.0	7.6	6.8	6.0	6.1	5.8
167°	13.0	12.5	11.1	9.0	7.7	7.3	6.8	6.1	5.5	5.6	5.4
167.5°	11.2	10.8	9.4	7.3	7.1	6.6	6.1	5.5	5.1	5.2	5.0
168°	9.3	9.0	7.5	6.7	6.7	6.1	5.5	5.0	4.6	4.7	4.6
168.5°	7.3	7.1	6.0	6.2	6.2	5.7	5.1	4.5	4.1	4.3	4.2
169°	5.6	5.7	5.6	5.8	5.8	5.3	4.8	4.0	3.7	3.9	3.8
169.5°	5.3	5.3	5.3	5.4	5.4	5.0	4.4	3.5	3.3	3.5	3.5
170°	5.1	5.1	5.0	5.1	5.1	4.7	4.1	3.4	3.2	3.3	3.5
170.5°	4.8	4.8	4.7	4.8	4.8	4.4	3.9	3.3	3.2	3.3	3.5
171°	4.6	4.5	4.5	4.5	4.5	4.1	3.7	3.3	3.2	3.3	3.5
171.5°	4.4	4.3	4.3	4.3	4.2	3.9	3.6	3.2	3.2	3.4	3.6
172°	4.2	4.2	4.1	4.0	4.0	3.8	3.5	3.2	3.3	3.4	3.6
172.5°	4.0	4.0	4.0	3.9	3.8	3.7	3.5	3.2	3.4	3.5	3.7
173°	3.9	3.9	3.8	3.7	3.7	3.6	3.4	3.3	3.4	3.6	3.8
173.5°	3.7	3.8	3.7	3.6	3.6	3.5	3.4	3.3	3.5	3.7	3.9
174°	3.6	3.6	3.6	3.5	3.4	3.4	3.3	3.4	3.5	3.7	3.9
174.5°	3.5	3.5	3.4	3.4	3.3	3.3	3.3	3.4	3.5	3.7	3.9
175°	3.4	3.4	3.3	3.3	3.2	3.3	3.3	3.4	3.6	3.7	3.9
175.5°	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.4	3.6	3.8	3.9
176°	3.2	3.2	3.1	3.1	3.1	3.2	3.3	3.4	3.6	3.8	3.9
176.5°	3.2	3.1	3.1	3.1	3.1	3.2	3.3	3.4	3.6	3.8	3.9
177°	3.1	3.1	3.1	3.0	3.1	3.2	3.3	3.4	3.6	3.7	3.9
177.5°	3.1	3.1	3.1	3.0	3.1	3.2	3.3	3.4	3.6	3.7	3.9
178°	3.2	3.2	3.1	3.1	3.1	3.1	3.3	3.4	3.5	3.7	3.8
178.5°	3.2	3.2	3.1	3.1	3.1	3.2	3.3	3.4	3.5	3.7	3.8
179°	3.2	3.2	3.2	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.8
179.5°	3.3	3.3	3.2	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.8



REPORT NUMBER: P973037  
CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4



REPORT NUMBER: P973037

CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
0.5°	3205.1	3197.3	3191.8	3190.0	3191.7	3190.6	3190.6	3169.2	3168.4	3170.3	3174.3
1°	3193.7	3187.2	3191.0	3196.8	3205.6	3211.9	3214.3	3164.9	3163.6	3162.8	3161.7
1.5°	3178.7	3184.2	3204.1	3226.9	3247.5	3259.1	3260.3	3206.0	3201.9	3196.3	3190.0
2°	3176.8	3198.9	3230.6	3261.7	3284.4	3296.7	3303.2	3253.8	3247.7	3241.1	3231.2
2.5°	3175.9	3218.8	3261.9	3290.0	3306.6	3308.6	3308.5	3277.3	3271.8	3270.2	3265.1
3°	3183.1	3236.8	3277.7	3298.6	3294.9	3276.9	3265.8	3258.7	3259.2	3268.8	3273.1
3.5°	3189.4	3251.6	3282.9	3275.0	3243.1	3212.0	3199.6	3192.6	3198.5	3214.9	3251.1
4°	3199.7	3256.2	3267.4	3221.6	3176.8	3162.1	3163.7	3140.6	3139.6	3153.8	3189.8
4.5°	3205.0	3253.1	3232.7	3163.4	3144.4	3148.6	3161.6	3127.9	3123.5	3126.0	3140.2
5°	3208.7	3238.7	3175.7	3126.3	3136.1	3157.4	3168.9	3141.6	3131.6	3122.9	3118.9
5.5°	3204.8	3212.6	3126.2	3112.0	3138.6	3146.7	3139.5	3128.1	3127.5	3127.5	3122.5
6°	3197.8	3173.0	3098.0	3109.1	3120.8	3088.6	3052.1	3061.4	3069.0	3103.0	3125.6
6.5°	3190.7	3128.1	3080.6	3098.7	3065.8	2986.9	2934.8	2951.2	2968.2	3029.4	3095.3
7°	3179.1	3088.6	3072.8	3065.2	2971.8	2872.6	2833.9	2841.8	2857.4	2921.4	3028.6
7.5°	3159.8	3059.8	3057.0	2999.1	2863.9	2790.4	2787.2	2775.2	2774.7	2817.0	2927.4
8°	3132.2	3038.3	3032.8	2915.1	2782.2	2761.6	2779.7	2763.4	2755.9	2754.7	2825.6
8.5°	3107.8	3015.1	2987.5	2822.3	2734.8	2752.0	2753.2	2751.3	2752.5	2741.8	2756.3
9°	3073.1	2996.8	2930.9	2747.0	2719.8	2717.6	2676.2	2685.4	2703.3	2732.1	2739.0
9.5°	3044.8	2976.9	2858.7	2700.4	2701.1	2634.8	2555.7	2579.5	2605.0	2684.6	2736.3
10°	3018.0	2951.8	2784.5	2674.5	2643.2	2517.9	2433.8	2446.3	2477.5	2580.1	2713.2
10.5°	2992.3	2922.7	2720.1	2656.1	2552.5	2402.7	2351.2	2352.9	2365.9	2453.4	2651.1
11°	2974.5	2885.1	2665.4	2620.5	2449.1	2324.1	2307.7	2303.8	2305.5	2346.8	2534.4
11.5°	2956.2	2842.6	2624.2	2555.8	2350.2	2278.4	2256.1	2261.9	2268.3	2291.8	2414.4
12°	2940.1	2797.3	2600.5	2475.8	2278.2	2230.4	2173.4	2185.7	2211.1	2259.3	2326.6
12.5°	2924.1	2746.4	2577.2	2392.4	2236.8	2153.2	2062.9	2076.9	2116.6	2211.2	2280.5
13°	2910.2	2699.3	2545.3	2303.7	2183.6	2048.6	1947.6	1953.8	1995.1	2124.5	2252.3
13.5°	2891.5	2657.9	2502.8	2237.5	2113.8	1938.6	1856.8	1855.5	1885.8	2010.0	2209.2
14°	2868.6	2620.1	2448.5	2190.3	2027.2	1846.7	1783.3	1782.6	1802.8	1894.4	2130.7
14.5°	2845.1	2585.7	2383.4	2138.9	1926.4	1769.6	1708.6	1715.4	1737.6	1808.7	2022.7
15°	2815.7	2557.0	2320.3	2082.7	1835.1	1700.3	1627.8	1631.5	1665.6	1744.2	1906.5
15.5°	2783.2	2529.9	2255.2	2017.2	1758.8	1624.5	1531.5	1530.4	1579.6	1681.4	1813.4
16°	2752.2	2503.1	2196.8	1938.2	1691.3	1537.7	1422.5	1422.6	1473.4	1604.7	1745.2
16.5°	2719.4	2472.3	2151.1	1855.3	1621.5	1438.3	1313.7	1314.8	1360.7	1513.4	1693.0
17°	2688.5	2433.9	2104.6	1782.8	1548.9	1338.3	1223.0	1220.5	1255.2	1398.3	1627.9
17.5°	2658.9	2393.8	2054.7	1710.4	1465.2	1240.1	1148.5	1174.6	1204.6	1290.0	1546.3
18°	2627.4	2352.0	2006.9	1641.9	1367.9	1158.5	1095.1	1128.7	1154.0	1198.9	1449.5
18.5°	2597.2	2301.5	1951.8	1578.8	1279.8	1098.0	1054.1	1082.8	1103.4	1150.0	1347.3
19°	2566.4	2255.9	1888.6	1514.2	1195.4	1051.2	1019.8	1036.9	1052.8	1101.2	1246.8
19.5°	2531.2	2205.7	1823.7	1441.4	1120.8	1013.0	988.3	991.1	1002.7	1052.4	1194.8
20°	2497.6	2152.1	1755.8	1369.2	1065.3	981.8	957.6	960.1	970.3	1003.9	1142.7
20.5°	2465.9	2098.4	1681.8	1287.4	1018.5	949.6	924.3	928.8	939.2	973.6	1090.7
21°	2429.5	2053.9	1618.8	1208.9	982.1	919.4	892.7	896.1	907.3	943.4	1038.7
21.5°	2396.6	2006.3	1558.0	1141.4	950.9	889.3	860.6	863.3	875.2	911.8	987.7
22°	2367.7	1966.0	1498.6	1076.7	921.1	857.7	826.4	830.2	842.6	881.5	958.1





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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	2336.3	1932.0	1448.4	1025.7	891.9	826.4	794.1	798.2	810.3	851.5	929.5
23°	2311.5	1898.5	1394.7	985.8	864.0	795.9	763.3	766.0	779.5	820.6	901.7
23.5°	2286.0	1859.4	1330.2	949.5	834.8	763.6	731.3	735.9	749.7	791.2	874.2
24°	2262.3	1819.7	1270.4	920.1	805.2	734.2	700.8	704.8	718.2	761.4	846.7
24.5°	2236.6	1772.9	1209.1	893.4	778.2	706.4	672.3	675.4	689.3	732.3	819.7
25°	2211.2	1717.5	1144.2	866.4	748.9	676.5	641.9	646.1	660.6	704.8	792.5
25.5°	2185.3	1664.0	1089.8	840.2	720.1	647.2	612.6	616.5	631.0	676.9	765.2
26°	2158.8	1605.0	1043.5	816.7	694.8	621.1	585.9	588.4	603.2	649.7	738.9
26.5°	2132.2	1550.3	997.5	791.8	668.1	593.8	557.6	561.6	576.3	622.6	713.8
27°	2100.5	1503.4	962.9	766.5	641.1	566.9	531.0	533.8	547.7	596.0	687.5
27.5°	2067.8	1458.2	931.4	742.7	616.5	540.8	514.0	507.0	521.0	569.1	662.0
28°	2033.7	1417.1	902.8	719.0	591.5	517.3	487.9	482.1	496.1	544.2	636.5
28.5°	1999.2	1379.6	877.7	694.4	565.7	494.1	461.3	457.5	470.6	518.8	612.0
29°	1967.8	1342.9	856.1	672.2	543.0	470.9	434.7	433.3	445.8	494.6	587.5
29.5°	1939.5	1306.6	832.8	649.2	520.1	447.6	408.0	411.4	423.0	472.1	563.8
30°	1910.0	1270.8	812.1	625.8	498.5	424.4	386.8	390.4	401.1	449.8	540.4
30.5°	1886.6	1231.3	791.9	604.9	476.9	401.2	367.8	370.8	380.8	427.7	517.8
31°	1866.3	1192.4	769.5	583.2	455.3	380.6	348.8	352.2	361.7	407.6	495.8
31.5°	1846.6	1158.8	749.2	560.9	433.7	361.1	331.0	334.9	343.0	388.5	475.4
32°	1833.2	1122.9	729.7	541.5	412.2	344.2	315.7	319.0	326.0	370.0	455.8
32.5°	1818.1	1090.8	709.4	521.1	393.4	326.8	300.3	304.4	310.2	352.5	436.7
33°	1802.2	1064.5	692.1	502.7	375.2	310.5	285.9	290.5	295.3	336.2	418.3
33.5°	1786.7	1038.0	675.6	484.3	358.8	296.0	273.3	277.9	281.7	320.5	400.9
34°	1769.6	1015.9	656.8	465.9	343.0	282.1	261.4	266.0	268.5	305.3	384.2
34.5°	1749.3	997.8	639.9	447.5	327.3	268.4	250.3	254.9	256.3	291.0	368.3
35°	1731.0	981.5	624.2	429.1	313.3	256.7	240.8	244.8	245.5	278.0	353.0
35.5°	1710.6	966.9	607.4	412.4	300.0	245.6	231.5	235.4	235.6	265.4	337.0
36°	1688.9	955.8	592.5	395.8	286.5	234.9	222.7	226.8	226.1	253.9	322.4
36.5°	1669.3	943.8	578.3	381.4	274.2	225.3	214.9	218.7	218.0	243.1	308.7
37°	1649.1	932.7	562.6	366.7	262.7	216.4	207.3	210.8	210.1	233.2	295.0
37.5°	1630.7	923.3	548.9	352.8	251.1	208.2	199.9	203.5	202.7	224.0	281.9
38°	1613.7	911.9	535.9	340.1	240.8	200.7	193.0	196.5	195.7	215.5	269.6
38.5°	1598.4	901.3	521.7	328.1	230.9	193.6	186.5	189.7	189.0	207.5	258.1
39°	1584.4	892.2	509.6	316.1	221.4	186.9	180.1	183.6	182.7	200.6	247.7
39.5°	1572.1	881.9	497.5	305.5	212.6	180.8	174.3	177.4	176.7	193.2	237.1
40°	1558.2	871.2	485.5	294.6	204.4	174.8	168.7	172.0	171.3	186.6	227.7
40.5°	1544.0	862.8	473.5	284.4	196.4	169.0	163.0	166.7	165.9	180.4	218.9
41°	1532.3	852.3	461.5	275.5	189.5	163.8	158.2	161.7	160.8	174.2	210.5
41.5°	1519.8	841.9	449.6	266.6	182.9	158.7	153.6	156.9	156.1	168.5	202.8
42°	1506.8	832.7	439.1	257.3	176.1	153.7	148.9	152.3	151.6	163.2	195.8
42.5°	1496.2	822.6	429.3	249.6	170.2	149.2	144.7	148.0	147.2	158.2	189.0
43°	1484.3	813.7	418.6	242.0	164.8	144.9	140.4	143.7	142.9	153.4	182.5
43.5°	1471.5	804.8	408.4	234.1	159.2	140.5	136.2	139.6	138.7	148.8	176.5
44°	1460.8	795.3	399.1	226.9	154.1	136.5	132.2	135.6	134.7	144.3	170.8
44.5°	1450.6	786.3	389.1	220.5	149.5	132.5	128.6	131.8	130.8	140.2	165.2



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 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1439.3	777.1	379.7	213.8	144.8	128.7	124.8	128.4	127.0	136.0	160.0
45.5°	1429.5	767.5	371.2	207.8	140.6	125.0	121.4	124.9	123.4	131.9	154.9
46°	1420.4	759.4	361.7	201.5	136.6	121.6	118.1	121.6	120.3	128.0	150.3
46.5°	1409.7	752.4	353.5	195.7	132.6	118.2	114.8	118.6	117.3	124.1	145.7
47°	1400.5	744.1	345.9	190.2	128.8	114.8	111.6	115.6	114.3	121.0	141.4
47.5°	1390.8	737.2	338.0	184.9	125.3	111.6	108.5	112.6	111.2	117.8	137.3
48°	1379.4	730.9	331.1	179.5	121.8	108.5	105.5	109.6	108.2	114.6	133.5
48.5°	1369.1	722.9	324.3	174.9	118.5	105.5	102.5	106.4	105.3	111.5	129.4
49°	1355.9	714.4	317.1	170.2	115.2	102.4	99.5	103.5	102.4	108.3	125.7
49.5°	1341.1	707.2	310.8	165.8	112.0	99.5	96.4	100.5	99.5	105.3	122.2
50°	1329.0	698.0	304.8	161.7	108.9	96.7	93.5	97.5	96.6	102.4	119.0
50.5°	1316.8	686.8	298.3	157.9	105.9	94.0	90.7	94.6	93.8	99.6	115.8
51°	1302.4	676.0	292.4	154.0	102.7	91.3	87.9	91.7	91.1	96.8	112.6
51.5°	1291.3	664.9	287.3	150.5	99.9	88.6	85.2	89.0	88.5	94.0	109.4
52°	1278.6	653.3	281.6	147.0	97.1	86.2	82.8	86.4	85.9	91.4	106.3
52.5°	1264.4	643.7	276.9	143.6	94.3	83.6	80.4	83.8	83.4	88.6	103.3
53°	1251.9	633.7	272.3	140.2	91.5	81.1	78.1	81.3	81.0	85.9	100.5
53.5°	1235.9	622.4	266.9	137.1	89.0	78.8	75.9	78.8	78.6	83.3	97.7
54°	1219.2	611.3	262.2	133.8	86.3	76.3	73.6	76.5	76.2	80.6	95.1
54.5°	1203.0	600.2	257.7	130.7	83.8	74.0	71.4	74.3	74.0	78.2	92.5
55°	1188.4	590.1	252.9	127.7	81.5	71.8	69.3	72.1	71.8	75.8	90.1
55.5°	1174.4	580.2	248.7	124.7	79.1	69.6	67.2	69.9	69.6	73.2	87.6
56°	1161.4	569.2	244.6	121.7	76.7	67.4	65.1	67.8	67.4	70.8	85.2
56.5°	1149.0	558.7	240.2	118.7	74.5	65.2	63.3	65.8	65.3	68.4	82.8
57°	1136.8	548.6	235.6	115.6	72.2	63.0	61.4	63.9	63.3	66.0	80.3
57.5°	1127.1	539.6	231.3	113.0	69.9	61.0	59.5	62.1	61.4	63.6	77.8
58°	1115.2	530.3	226.1	110.1	67.7	59.0	57.5	60.1	59.5	61.3	75.3
58.5°	1103.7	522.3	221.1	107.2	65.4	57.0	55.4	57.9	57.4	59.2	72.9
59°	1093.2	514.6	216.4	104.4	63.0	55.0	53.0	55.7	55.3	57.2	70.4
59.5°	1082.9	505.6	211.5	101.6	60.7	53.0	50.5	53.5	53.0	55.1	67.9
60°	1074.1	496.6	206.7	98.7	58.5	50.5	47.9	50.6	50.6	52.9	65.5
60.5°	1066.4	487.6	201.7	95.9	56.4	48.1	45.3	47.3	47.6	50.5	63.1
61°	1054.5	478.5	196.3	93.2	54.4	45.6	42.8	44.1	44.3	48.2	60.8
61.5°	1037.5	470.7	191.5	90.3	52.1	43.2	40.2	41.8	41.5	45.5	58.6
62°	1022.8	461.8	187.4	87.5	50.0	40.8	37.2	38.6	39.0	42.5	56.4
62.5°	1009.2	452.1	183.1	84.8	47.9	38.2	33.0	32.2	35.5	39.6	54.0
63°	996.4	441.8	178.8	82.0	45.8	35.4	25.0	25.8	28.4	37.0	51.5
63.5°	981.8	430.5	174.2	79.3	43.7	31.7	16.1	19.3	21.3	32.6	48.9
64°	965.3	418.6	168.8	76.6	41.3	25.1	7.3	12.9	14.2	26.1	46.4
64.5°	947.5	407.2	163.6	73.9	38.9	16.7	5.7	6.5	7.1	19.5	43.7
65°	926.2	394.4	158.1	71.3	36.4	8.4	4.3	0.1	0.3	13.0	40.7
65.5°	906.5	382.2	152.2	68.6	32.6	2.1	2.9	0.1	0.1	6.5	36.6
66°	885.1	370.5	147.3	65.8	26.4	1.5	1.6	0.1	0.1	0.2	30.3
66.5°	863.8	356.6	143.1	63.1	19.5	1.1	0.2	0.1	0.1	0.1	23.1
67°	843.1	345.3	139.0	60.6	13.6	0.6	0.1	0.1	0.1	0.1	16.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	818.4	334.3	134.4	57.6	10.4	0.2	0.1	0.1	0.1	0.1	14.0
68°	793.2	321.7	129.5	53.8	9.7	0.1	0.1	0.1	0.1	0.1	13.6
68.5°	771.1	310.9	124.3	50.2	9.4	0.1	0.1	0.1	0.1	0.1	13.3
69°	747.2	300.4	119.4	46.7	9.2	0.1	0.1	0.1	0.1	0.1	13.0
69.5°	722.4	289.3	114.7	43.1	9.0	0.1	0.1	0.1	0.1	0.1	12.8
70°	697.2	279.1	109.3	39.6	8.8	0.1	0.1	0.1	0.1	0.1	12.6
70.5°	672.6	269.1	104.3	36.0	8.7	0.1	0.1	0.1	0.1	0.1	12.4
71°	646.5	258.3	99.0	35.1	8.5	0.1	0.1	0.1	0.1	0.2	12.2
71.5°	618.7	247.2	92.4	34.3	8.4	0.1	0.1	0.2	0.2	0.2	12.1
72°	592.8	236.3	86.1	33.5	8.3	0.1	0.1	0.2	0.2	0.2	11.9
72.5°	566.4	224.2	80.9	32.7	8.2	0.1	0.1	0.2	0.2	0.2	11.7
73°	541.5	212.0	77.1	32.0	8.1	0.2	0.1	0.2	0.2	0.2	11.5
73.5°	517.0	202.2	74.2	31.3	8.0	0.2	0.2	0.2	0.2	0.2	11.4
74°	496.9	193.1	71.7	30.7	7.9	0.2	0.2	0.2	0.2	0.2	11.2
74.5°	476.8	185.0	69.0	30.0	7.8	0.2	0.2	0.2	0.2	0.2	11.0
75°	456.6	178.7	66.6	29.3	7.7	0.2	0.2	0.2	0.2	0.2	10.8
75.5°	436.5	172.7	64.3	28.7	7.6	0.2	0.2	0.2	0.2	0.2	10.6
76°	416.4	166.2	62.0	28.0	7.5	0.2	0.2	0.2	0.2	0.2	10.4
76.5°	398.7	160.0	59.9	27.3	7.4	0.2	0.2	0.2	0.2	0.2	10.2
77°	382.2	154.6	58.0	26.6	7.3	0.2	0.2	0.2	0.2	0.2	10.0
77.5°	365.7	148.3	55.9	25.8	7.1	0.2	0.2	0.2	0.2	0.2	9.8
78°	349.0	142.0	54.0	25.1	7.0	0.2	0.2	0.2	0.2	0.3	9.6
78.5°	331.9	135.3	51.9	24.4	6.8	0.2	0.2	0.3	0.3	0.3	9.4
79°	314.7	129.4	50.4	23.7	6.7	0.2	0.2	0.3	0.3	0.3	9.2
79.5°	297.8	123.8	48.9	22.9	6.5	0.2	0.2	0.3	0.3	0.3	9.0
80°	282.6	118.9	47.5	22.2	6.4	0.2	0.2	0.3	0.3	0.3	8.8
80.5°	267.0	113.9	46.0	21.5	6.2	0.2	0.2	0.3	0.3	0.3	8.6
81°	251.6	108.8	44.3	20.7	6.1	0.2	0.2	0.3	0.3	0.3	8.4
81.5°	236.4	103.8	42.6	19.9	5.9	0.2	0.2	0.3	0.3	0.3	8.2
82°	221.1	97.9	40.7	19.2	5.8	0.2	0.2	0.3	0.3	0.3	8.0
82.5°	206.9	91.5	38.8	18.4	5.6	0.2	0.2	0.3	0.3	0.3	7.8
83°	193.1	85.4	37.0	17.7	5.5	0.2	0.2	0.4	0.4	0.4	7.6
83.5°	178.6	79.9	35.0	17.0	5.3	0.3	0.3	0.4	0.4	0.4	7.4
84°	163.4	74.6	33.2	16.2	5.2	0.3	0.3	0.4	0.4	0.4	7.2
84.5°	149.7	69.1	31.4	15.6	5.0	0.3	0.3	0.4	0.4	0.4	7.1
85°	137.6	64.0	29.6	14.9	4.9	0.3	0.3	0.4	0.4	0.4	6.9
85.5°	126.2	59.5	28.0	14.2	4.8	0.3	0.3	0.4	0.4	0.4	6.7
86°	115.2	55.0	26.5	13.6	4.7	0.3	0.3	0.5	0.5	0.5	6.5
86.5°	104.6	51.1	25.1	13.1	4.5	0.3	0.3	0.5	0.5	0.5	6.3
87°	95.0	47.8	23.8	12.6	4.4	0.3	0.3	0.5	0.5	0.5	6.2
87.5°	86.5	44.5	22.6	12.1	4.3	0.4	0.4	0.5	0.5	0.5	6.0
88°	78.5	41.3	21.4	11.6	4.2	0.4	0.4	0.5	0.6	0.6	5.9
88.5°	71.6	38.1	20.4	11.2	4.1	0.4	0.4	0.6	0.6	0.6	5.7
89°	65.2	35.6	19.5	10.8	4.0	0.4	0.4	0.6	0.6	0.6	5.5
89.5°	60.0	33.3	18.6	10.4	3.9	0.4	0.4	0.6	0.6	0.6	5.3



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	55.4	31.3	17.9	10.0	3.7	0.4	0.4	0.6	0.7	0.7	5.2
90.5°	51.0	29.6	17.2	9.6	3.6	0.5	0.5	0.7	0.7	0.7	5.0
91°	48.5	28.2	16.5	9.2	3.6	0.5	0.5	0.7	0.7	0.7	4.9
91.5°	46.0	27.0	15.8	8.9	3.5	0.5	0.5	0.7	0.7	0.7	4.8
92°	43.5	25.9	15.2	8.7	3.4	0.5	0.5	0.7	0.8	0.8	4.7
92.5°	41.1	25.0	14.8	8.5	3.3	0.5	0.5	0.8	0.8	0.8	4.5
93°	39.5	24.2	14.4	8.2	3.2	0.6	0.6	0.8	0.8	0.8	4.4
93.5°	38.3	23.7	14.1	8.0	3.1	0.6	0.6	0.8	0.8	0.8	4.3
94°	37.2	23.4	13.9	7.8	3.1	0.6	0.6	0.9	0.9	0.9	4.2
94.5°	36.4	23.1	13.6	7.6	3.0	0.6	0.6	0.9	0.9	0.9	4.2
95°	35.9	22.8	13.3	7.5	2.9	0.6	0.6	0.9	0.9	0.9	4.1
95.5°	35.5	22.6	13.0	7.3	2.9	0.7	0.7	0.9	0.9	0.9	4.0
96°	35.1	22.3	12.8	7.2	2.8	0.7	0.7	1.0	1.0	1.0	3.9
96.5°	34.7	22.0	12.6	7.1	2.7	0.7	0.7	1.0	1.0	1.0	3.8
97°	34.3	21.8	12.4	7.0	2.7	0.7	0.7	1.0	1.0	1.0	3.8
97.5°	33.9	21.5	12.2	6.9	2.6	0.7	0.8	1.1	1.1	1.1	3.7
98°	33.4	21.2	12.0	6.8	2.6	0.8	0.8	1.1	1.1	1.1	3.7
98.5°	32.9	21.0	11.8	6.7	2.5	0.8	0.8	1.1	1.1	1.1	3.6
99°	32.4	20.7	11.6	6.6	2.5	0.8	0.8	1.1	1.1	1.1	3.6
99.5°	31.9	20.3	11.4	6.5	2.5	0.8	0.8	1.2	1.2	1.2	3.5
100°	31.4	20.0	11.3	6.4	2.4	0.9	0.9	1.2	1.2	1.2	3.4
100.5°	30.9	19.6	11.1	6.3	2.4	0.9	0.9	1.2	1.2	1.2	3.4
101°	30.4	19.2	11.0	6.3	2.4	0.9	0.9	1.3	1.3	1.3	3.4
101.5°	30.0	18.9	10.9	6.2	2.4	0.9	0.9	1.3	1.3	1.3	3.3
102°	29.6	18.6	10.8	6.1	2.3	1.0	1.0	1.3	1.3	1.3	3.3
102.5°	29.2	18.3	10.7	6.1	2.3	1.0	1.0	1.4	1.4	1.3	3.2
103°	28.8	18.1	10.6	6.0	2.3	1.0	1.0	1.4	1.4	1.4	3.1
103.5°	28.6	17.9	10.5	6.0	2.3	1.0	1.0	1.4	1.4	1.4	3.0
104°	28.3	17.7	10.4	5.9	2.3	1.1	1.1	1.5	1.5	1.5	3.0
104.5°	28.2	17.5	10.3	5.9	2.3	1.1	1.1	1.5	1.5	1.5	3.0
105°	28.0	17.4	10.2	5.8	2.2	1.1	1.1	1.6	1.5	1.5	2.9
105.5°	27.9	17.2	10.1	5.7	2.2	1.1	1.2	1.6	1.6	1.6	2.9
106°	27.9	17.2	10.0	5.7	2.2	1.2	1.2	1.6	1.6	1.6	2.9
106.5°	27.8	17.1	9.9	5.6	2.2	1.2	1.2	1.7	1.7	1.6	2.9
107°	27.8	17.1	9.8	5.5	2.2	1.2	1.2	1.7	1.7	1.7	2.9
107.5°	27.8	17.1	9.7	5.4	2.2	1.3	1.3	1.7	1.7	1.7	2.9
108°	27.8	17.1	9.6	5.3	2.1	1.3	1.3	1.8	1.8	1.7	2.9
108.5°	27.9	17.1	9.6	5.3	2.2	1.3	1.3	1.8	1.8	1.8	2.9
109°	27.9	17.1	9.5	5.2	2.2	1.3	1.4	1.8	1.8	1.8	2.9
109.5°	27.9	17.0	9.5	5.2	2.2	1.4	1.4	1.9	1.9	1.8	2.9
110°	27.9	17.0	9.5	5.1	2.2	1.4	1.4	1.9	1.9	1.9	3.0
110.5°	28.0	17.0	9.5	5.0	2.2	1.4	1.5	1.9	1.9	1.9	3.0
111°	28.0	17.0	9.5	5.0	2.3	1.5	1.5	2.0	1.9	1.9	3.0
111.5°	28.0	16.9	9.5	5.0	2.3	1.5	1.5	2.0	2.0	1.9	3.0
112°	28.0	16.9	9.6	4.9	2.3	1.6	1.6	2.0	2.0	2.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	28.1	16.8	9.6	5.0	2.4	1.6	1.6	2.0	2.0	2.0	3.0
113°	28.1	16.8	9.6	5.0	2.4	1.6	1.7	2.1	2.0	2.0	3.0
113.5°	28.1	16.8	9.6	5.0	2.4	1.7	1.7	2.1	2.1	2.0	3.0
114°	28.1	16.7	9.6	5.0	2.5	1.7	1.7	2.1	2.1	2.1	3.0
114.5°	28.1	16.7	9.5	5.0	2.5	1.8	1.8	2.1	2.1	2.1	3.1
115°	28.1	16.7	9.5	5.1	2.6	1.8	1.8	2.2	2.1	2.1	3.1
115.5°	28.1	16.6	9.5	5.1	2.6	1.8	1.9	2.2	2.2	2.1	3.1
116°	28.2	16.6	9.4	5.2	2.7	1.9	1.9	2.2	2.2	2.2	3.1
116.5°	28.2	16.6	9.4	5.3	2.7	1.9	1.9	2.3	2.2	2.2	3.1
117°	28.3	16.5	9.4	5.4	2.8	2.0	2.0	2.3	2.2	2.2	3.2
117.5°	28.3	16.5	9.4	5.4	2.8	2.0	2.0	2.3	2.3	2.2	3.2
118°	28.4	16.5	9.4	5.5	2.9	2.1	2.1	2.3	2.3	2.3	3.2
118.5°	28.5	16.4	9.4	5.5	3.0	2.1	2.1	2.4	2.3	2.3	3.2
119°	28.5	16.4	9.4	5.6	3.0	2.2	2.2	2.4	2.4	2.3	3.3
119.5°	28.5	16.4	9.4	5.7	3.1	2.2	2.2	2.4	2.4	2.4	3.3
120°	28.6	16.4	9.4	5.7	3.1	2.3	2.3	2.4	2.4	2.4	3.3
120.5°	28.6	16.4	9.4	5.8	3.2	2.3	2.4	2.5	2.5	2.4	3.3
121°	28.6	16.3	9.4	5.8	3.2	2.4	2.4	2.5	2.5	2.5	3.4
121.5°	28.6	16.3	9.4	5.9	3.2	2.4	2.4	2.5	2.5	2.5	3.4
122°	28.6	16.4	9.5	6.0	3.3	2.5	2.5	2.6	2.5	2.5	3.4
122.5°	28.7	16.4	9.5	6.0	3.3	2.5	2.5	2.6	2.6	2.5	3.4
123°	28.7	16.4	9.5	6.1	3.3	2.6	2.6	2.6	2.6	2.6	3.5
123.5°	28.7	16.5	9.6	6.1	3.4	2.6	2.6	2.7	2.6	2.6	3.5
124°	28.7	16.5	9.7	6.1	3.4	2.7	2.7	2.7	2.7	2.6	3.6
124.5°	28.8	16.6	9.7	6.2	3.4	2.7	2.7	2.7	2.7	2.7	3.6
125°	28.8	16.7	9.8	6.2	3.5	2.7	2.8	2.8	2.8	2.7	3.7
125.5°	28.9	16.8	9.8	6.2	3.5	2.8	2.8	2.8	2.8	2.8	3.7
126°	29.0	16.9	9.9	6.3	3.5	2.8	2.9	2.9	2.8	2.8	3.8
126.5°	29.2	17.0	10.0	6.3	3.5	2.9	2.9	2.9	2.9	2.9	3.9
127°	29.3	17.1	10.1	6.4	3.6	2.9	2.9	3.0	2.9	2.9	3.9
127.5°	29.5	17.2	10.2	6.4	3.6	2.9	3.0	3.0	3.0	2.9	4.0
128°	29.7	17.3	10.2	6.4	3.6	3.0	3.0	3.1	3.0	3.0	4.0
128.5°	29.9	17.5	10.3	6.4	3.7	3.0	3.1	3.1	3.1	3.0	4.1
129°	30.1	17.6	10.4	6.5	3.7	3.0	3.1	3.2	3.1	3.1	4.1
129.5°	30.3	17.7	10.4	6.5	3.7	3.1	3.1	3.2	3.2	3.1	4.1
130°	30.6	17.9	10.5	6.5	3.7	3.1	3.2	3.3	3.2	3.2	4.2
130.5°	30.8	18.0	10.6	6.5	3.8	3.2	3.2	3.3	3.3	3.2	4.2
131°	31.0	18.1	10.7	6.6	3.8	3.2	3.3	3.4	3.3	3.3	4.2
131.5°	31.3	18.3	10.7	6.6	3.8	3.2	3.3	3.4	3.4	3.3	4.3
132°	31.5	18.4	10.8	6.6	3.8	3.3	3.3	3.5	3.4	3.4	4.3
132.5°	31.7	18.6	10.9	6.6	3.9	3.3	3.4	3.5	3.5	3.4	4.3
133°	32.0	18.7	10.9	6.7	3.9	3.4	3.4	3.6	3.5	3.5	4.3
133.5°	32.2	18.8	11.0	6.7	3.9	3.4	3.5	3.6	3.6	3.5	4.4
134°	32.4	18.9	11.1	6.7	3.9	3.4	3.5	3.7	3.7	3.6	4.4
134.5°	32.6	19.0	11.1	6.7	3.9	3.4	3.5	3.7	3.7	3.6	4.4



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	32.8	19.1	11.2	6.7	4.0	3.5	3.5	3.8	3.7	3.7	4.5
135.5°	33.0	19.2	11.2	6.7	4.0	3.5	3.6	3.8	3.8	3.7	4.5
136°	33.2	19.2	11.2	6.7	4.0	3.5	3.6	3.9	3.8	3.8	4.5
136.5°	33.4	19.3	11.2	6.7	4.0	3.5	3.6	3.9	3.9	3.8	4.5
137°	33.5	19.3	11.2	6.7	4.0	3.6	3.6	3.9	3.9	3.9	4.5
137.5°	33.6	19.3	11.3	6.7	4.0	3.6	3.7	4.0	4.0	3.9	4.6
138°	33.8	19.4	11.3	6.7	4.0	3.6	3.7	4.0	4.0	3.9	4.6
138.5°	33.8	19.4	11.3	6.7	4.0	3.7	3.7	4.1	4.1	4.0	4.6
139°	33.9	19.4	11.3	6.7	4.1	3.7	3.8	4.1	4.1	4.0	4.6
139.5°	33.9	19.4	11.3	6.7	4.1	3.7	3.8	4.1	4.1	4.1	4.6
140°	33.9	19.4	11.2	6.7	4.1	3.7	3.8	4.2	4.2	4.1	4.6
140.5°	33.9	19.3	11.2	6.7	4.1	3.7	3.8	4.2	4.2	4.1	4.7
141°	33.8	19.3	11.2	6.6	4.1	3.8	3.8	4.2	4.2	4.2	4.7
141.5°	33.8	19.3	11.1	6.6	4.1	3.8	3.9	4.3	4.3	4.2	4.7
142°	33.6	19.2	11.1	6.6	4.1	3.8	3.9	4.3	4.3	4.2	4.7
142.5°	33.5	19.1	11.0	6.5	4.1	3.8	3.9	4.3	4.3	4.3	4.7
143°	33.3	19.1	11.0	6.5	4.1	3.8	3.9	4.3	4.3	4.3	4.7
143.5°	33.1	19.0	10.9	6.5	4.1	3.8	3.9	4.4	4.4	4.3	4.7
144°	32.8	18.9	10.8	6.4	4.0	3.8	3.9	4.4	4.4	4.3	4.7
144.5°	32.5	18.8	10.7	6.4	4.0	3.8	3.9	4.4	4.4	4.4	4.7
145°	32.2	18.7	10.6	6.3	4.0	3.8	3.9	4.4	4.4	4.4	4.7
145.5°	31.8	18.6	10.6	6.3	4.0	3.9	3.9	4.4	4.4	4.4	4.7
146°	31.4	18.4	10.5	6.2	4.0	3.9	3.9	4.4	4.4	4.4	4.7
146.5°	31.0	18.3	10.4	6.2	4.0	3.9	4.0	4.4	4.4	4.4	4.6
147°	30.5	18.1	10.3	6.1	4.0	3.9	4.0	4.4	4.5	4.4	4.6
147.5°	30.0	18.0	10.2	6.1	4.0	3.9	4.0	4.4	4.4	4.4	4.6
148°	29.5	17.8	10.1	6.0	4.0	3.9	4.0	4.4	4.4	4.4	4.6
148.5°	28.9	17.6	10.0	5.9	4.0	3.9	4.0	4.4	4.4	4.4	4.5
149°	28.3	17.4	9.8	5.9	4.0	3.9	4.0	4.4	4.4	4.4	4.5
149.5°	27.7	17.2	9.7	5.8	3.9	3.9	4.0	4.4	4.4	4.4	4.5
150°	27.0	16.9	9.6	5.7	3.9	3.9	4.0	4.4	4.4	4.4	4.4
150.5°	26.3	16.6	9.5	5.7	3.9	3.9	4.0	4.4	4.4	4.4	4.4
151°	25.6	16.4	9.4	5.6	3.9	3.9	4.0	4.4	4.4	4.4	4.4
151.5°	24.9	16.1	9.3	5.6	3.9	3.9	4.0	4.4	4.4	4.4	4.3
152°	24.1	15.8	9.1	5.5	3.9	3.9	4.0	4.4	4.4	4.4	4.3
152.5°	23.4	15.5	9.0	5.4	3.9	3.9	4.0	4.4	4.4	4.3	4.3
153°	22.6	15.2	8.9	5.3	3.8	3.9	4.0	4.3	4.3	4.3	4.2
153.5°	21.9	14.9	8.7	5.2	3.8	3.9	4.0	4.3	4.3	4.3	4.2
154°	21.1	14.5	8.6	5.2	3.8	3.9	4.0	4.3	4.3	4.3	4.2
154.5°	20.4	14.1	8.4	5.1	3.8	3.9	4.0	4.3	4.3	4.3	4.2
155°	19.6	13.8	8.2	5.0	3.8	3.9	4.0	4.3	4.3	4.2	4.1
155.5°	18.8	13.4	8.1	4.9	3.8	3.9	4.0	4.2	4.2	4.2	4.1
156°	18.0	13.0	7.9	4.8	3.8	4.0	4.1	4.2	4.2	4.2	4.1
156.5°	17.3	12.6	7.7	4.7	3.8	4.0	4.1	4.2	4.2	4.2	4.1
157°	16.5	12.2	7.5	4.6	3.8	4.0	4.1	4.2	4.2	4.2	4.0



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	15.8	11.7	7.4	4.5	3.8	4.0	4.1	4.2	4.2	4.1	4.0
158°	15.1	11.3	7.2	4.3	3.8	4.0	4.1	4.2	4.2	4.1	4.0
158.5°	14.4	10.9	7.0	4.2	3.8	4.0	4.1	4.2	4.1	4.1	4.0
159°	13.7	10.4	6.7	4.1	3.8	4.1	4.2	4.2	4.1	4.1	4.0
159.5°	13.0	10.0	6.5	4.0	3.9	4.1	4.2	4.2	4.1	4.1	4.0
160°	12.3	9.6	6.3	3.9	3.9	4.1	4.2	4.1	4.1	4.1	4.0
160.5°	11.6	9.1	6.0	3.9	3.9	4.1	4.2	4.1	4.1	4.1	3.9
161°	11.0	8.6	5.8	3.9	3.9	4.1	4.2	4.1	4.1	4.0	3.9
161.5°	10.3	8.2	5.5	3.8	3.9	4.1	4.2	4.1	4.1	4.0	3.9
162°	9.7	7.7	5.3	3.8	3.9	4.1	4.2	4.0	4.0	4.0	3.9
162.5°	9.1	7.3	5.0	3.7	3.9	4.1	4.2	4.0	4.0	4.0	3.9
163°	8.5	6.9	4.7	3.7	3.9	4.1	4.2	4.0	4.0	3.9	3.8
163.5°	8.0	6.5	4.5	3.7	3.9	4.1	4.2	4.0	4.0	3.9	3.8
164°	7.5	6.1	4.3	3.7	3.9	4.1	4.2	3.9	3.9	3.9	3.8
164.5°	7.0	5.7	4.2	3.8	3.9	4.1	4.3	3.9	3.9	3.9	3.8
165°	6.5	5.4	4.0	3.8	4.0	4.2	4.3	3.9	3.9	3.9	3.8
165.5°	6.1	5.1	3.9	3.9	4.0	4.2	4.3	3.9	3.9	3.9	3.8
166°	5.7	4.8	3.8	3.9	4.1	4.3	4.4	3.9	3.9	3.9	3.8
166.5°	5.3	4.4	3.8	4.0	4.1	4.3	4.4	3.9	3.9	3.9	3.8
167°	5.0	4.2	3.9	4.0	4.2	4.4	4.5	3.9	3.9	3.9	3.8
167.5°	4.6	4.0	3.9	4.0	4.2	4.4	4.5	3.9	3.9	3.9	3.8
168°	4.2	3.8	3.9	4.1	4.2	4.4	4.5	3.9	3.9	3.9	3.8
168.5°	3.9	3.8	4.0	4.1	4.2	4.4	4.5	3.9	3.9	3.8	3.8
169°	3.7	3.8	4.0	4.1	4.3	4.4	4.5	3.9	3.9	3.8	3.8
169.5°	3.7	3.8	4.0	4.1	4.3	4.4	4.6	3.8	3.8	3.8	3.7
170°	3.7	3.8	4.0	4.1	4.3	4.5	4.6	3.8	3.8	3.8	3.7
170.5°	3.7	3.9	4.0	4.2	4.3	4.5	4.6	3.8	3.8	3.8	3.7
171°	3.7	3.9	4.0	4.2	4.3	4.5	4.7	3.8	3.8	3.7	3.7
171.5°	3.7	3.9	4.1	4.2	4.4	4.6	4.7	3.8	3.8	3.7	3.6
172°	3.8	4.0	4.1	4.3	4.4	4.6	4.8	3.8	3.8	3.7	3.6
172.5°	3.9	4.1	4.2	4.3	4.5	4.7	4.8	3.8	3.7	3.7	3.6
173°	4.0	4.1	4.3	4.4	4.6	4.8	4.9	3.7	3.7	3.7	3.6
173.5°	4.0	4.2	4.3	4.5	4.6	4.8	5.0	3.7	3.7	3.6	3.5
174°	4.0	4.2	4.4	4.5	4.6	4.8	5.0	3.7	3.7	3.6	3.5
174.5°	4.0	4.2	4.4	4.5	4.6	4.8	5.0	3.7	3.7	3.6	3.5
175°	4.1	4.2	4.3	4.5	4.6	4.8	5.0	3.7	3.7	3.6	3.5
175.5°	4.1	4.2	4.3	4.5	4.6	4.8	4.9	3.6	3.6	3.6	3.5
176°	4.1	4.2	4.3	4.5	4.6	4.8	4.9	3.6	3.6	3.5	3.4
176.5°	4.1	4.2	4.3	4.4	4.6	4.7	4.9	3.6	3.5	3.5	3.4
177°	4.1	4.2	4.3	4.4	4.5	4.7	4.8	3.5	3.5	3.5	3.4
177.5°	4.0	4.2	4.3	4.4	4.5	4.7	4.8	3.5	3.5	3.4	3.3
178°	4.0	4.1	4.2	4.3	4.4	4.6	4.7	3.5	3.4	3.4	3.3
178.5°	4.0	4.1	4.2	4.3	4.4	4.6	4.7	3.4	3.4	3.4	3.3
179°	3.9	4.0	4.2	4.2	4.4	4.5	4.7	3.4	3.4	3.3	3.3
179.5°	3.9	4.0	4.1	4.2	4.3	4.5	4.6	3.4	3.3	3.3	3.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4





REPORT NUMBER: P973037

CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
0.5°	3179.1	3183.6	3191.8	3201.0	3209.7	3220.0	3231.5	3242.0	3249.3	3256.9	3266.7
1°	3163.4	3165.7	3176.5	3190.6	3203.3	3220.7	3242.4	3264.6	3285.5	3295.8	3304.0
1.5°	3185.4	3176.2	3170.9	3177.3	3195.8	3221.5	3250.2	3285.0	3300.9	3296.6	3281.0
2°	3216.3	3196.5	3183.5	3173.7	3187.5	3219.2	3262.0	3295.1	3286.6	3254.3	3209.1
2.5°	3247.0	3223.2	3204.1	3179.8	3180.7	3217.5	3270.0	3293.3	3251.0	3176.0	3094.1
3°	3270.4	3249.2	3219.7	3189.7	3176.3	3213.9	3275.7	3276.5	3188.5	3080.8	2987.6
3.5°	3274.6	3264.4	3237.3	3200.8	3173.5	3213.9	3282.2	3246.0	3121.7	2995.2	2928.1
4°	3241.1	3267.0	3253.8	3211.7	3177.5	3214.4	3284.9	3217.2	3052.8	2929.9	2905.8
4.5°	3185.0	3252.1	3269.3	3230.4	3180.0	3212.2	3283.5	3173.3	2980.2	2904.6	2918.8
5°	3139.3	3213.8	3273.4	3244.7	3184.0	3208.9	3280.8	3120.8	2934.9	2905.8	2929.9
5.5°	3116.9	3168.3	3262.9	3255.1	3178.6	3205.4	3268.6	3067.8	2904.3	2918.8	2898.5
6°	3119.9	3133.6	3237.1	3257.1	3178.7	3200.5	3253.4	3010.6	2892.4	2924.7	2819.8
6.5°	3132.7	3119.0	3199.5	3256.9	3178.3	3193.9	3235.3	2956.2	2897.6	2897.3	2717.2
7°	3121.4	3121.9	3160.4	3256.1	3177.1	3189.7	3212.3	2920.9	2905.6	2824.8	2636.5
7.5°	3080.1	3125.4	3122.5	3250.7	3179.5	3185.1	3185.8	2892.9	2908.6	2729.6	2617.5
8°	3010.0	3122.2	3103.4	3235.2	3183.8	3176.6	3157.5	2873.0	2889.0	2651.3	2663.6
8.5°	2914.0	3097.5	3095.1	3211.9	3183.7	3167.9	3126.6	2867.1	2849.8	2602.9	2753.9
9°	2815.2	3052.8	3096.2	3180.5	3184.6	3161.6	3095.1	2866.6	2784.8	2608.5	2841.2
9.5°	2755.7	2985.3	3094.8	3149.2	3185.3	3152.9	3054.6	2863.8	2714.4	2646.5	2888.7
10°	2729.6	2899.6	3091.5	3113.8	3183.9	3145.7	3022.8	2869.3	2647.1	2722.3	2876.7
10.5°	2726.7	2818.5	3077.1	3086.9	3183.4	3139.6	2992.1	2866.9	2588.7	2798.2	2821.1
11°	2715.8	2746.9	3050.4	3064.4	3182.4	3130.0	2957.5	2854.7	2569.7	2847.1	2773.1
11.5°	2684.5	2706.3	3009.0	3047.1	3177.8	3123.5	2928.4	2833.2	2577.9	2866.1	2759.8
12°	2600.3	2687.0	2954.2	3039.2	3172.3	3113.8	2895.5	2802.7	2609.3	2835.3	2805.5
12.5°	2493.2	2683.1	2893.2	3032.6	3164.4	3102.8	2864.5	2757.1	2657.6	2789.5	2893.0
13°	2381.1	2677.2	2820.2	3026.3	3155.5	3091.4	2837.9	2711.9	2708.9	2752.5	3015.4
13.5°	2300.8	2649.5	2751.3	3015.7	3135.9	3079.6	2816.4	2659.6	2757.2	2739.4	3109.3
14°	2255.3	2593.6	2696.3	3005.6	3122.8	3068.4	2793.9	2603.2	2785.1	2760.2	3143.1
14.5°	2229.0	2512.0	2647.6	2989.2	3103.3	3051.9	2777.3	2563.9	2792.2	2815.9	3126.7
15°	2195.4	2407.3	2617.9	2969.6	3085.0	3038.8	2760.3	2528.8	2777.9	2901.1	3077.7
15.5°	2136.5	2315.9	2602.5	2944.8	3064.0	3026.0	2749.2	2507.6	2742.8	2982.0	3031.3
16°	2046.6	2243.3	2589.1	2917.3	3042.0	3012.8	2736.5	2498.6	2708.3	3044.0	3024.0
16.5°	1942.9	2196.5	2576.9	2885.9	3019.2	2999.6	2726.0	2502.7	2681.4	3069.7	3062.9
17°	1842.2	2168.6	2561.0	2852.5	2997.5	2983.2	2715.6	2515.8	2671.7	3061.8	3121.5
17.5°	1758.6	2143.8	2526.2	2807.5	2972.7	2967.8	2702.0	2530.9	2677.8	3029.9	3179.8
18°	1696.6	2104.3	2473.0	2759.4	2946.4	2952.8	2691.3	2554.3	2704.5	2982.7	3222.0
18.5°	1643.9	2045.5	2402.2	2707.3	2919.6	2936.3	2676.0	2576.0	2745.8	2952.2	3245.7
19°	1589.7	1964.4	2320.5	2648.1	2890.2	2921.2	2663.9	2592.9	2790.2	2948.2	3264.3
19.5°	1523.3	1875.5	2244.2	2595.3	2866.1	2902.6	2649.1	2608.7	2840.6	2971.4	3289.9
20°	1446.0	1787.2	2178.8	2545.2	2838.7	2888.3	2628.4	2617.0	2876.1	3013.2	3342.9
20.5°	1356.6	1714.2	2120.5	2501.5	2816.6	2869.6	2609.0	2611.0	2898.1	3059.2	3429.1
21°	1269.7	1654.6	2079.6	2464.8	2794.3	2851.3	2585.4	2597.7	2908.2	3103.8	3547.5
21.5°	1216.3	1606.8	2050.4	2434.6	2771.1	2828.1	2557.7	2580.1	2899.4	3134.9	3673.0
22°	1162.9	1562.1	2021.4	2407.9	2750.8	2806.4	2532.3	2558.8	2875.7	3155.3	3799.5



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CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1109.6	1509.3	1989.3	2388.6	2733.1	2786.9	2508.7	2540.1	2841.1	3166.7	3906.9
23°	1056.2	1454.1	1950.6	2370.3	2714.4	2765.7	2482.1	2521.0	2808.6	3181.6	3969.9
23.5°	1004.1	1393.9	1901.2	2354.7	2699.6	2747.5	2454.9	2509.3	2785.1	3210.8	4018.5
24°	974.1	1325.6	1841.3	2335.3	2681.5	2726.3	2424.8	2498.5	2774.6	3267.8	4074.9
24.5°	948.0	1260.0	1781.8	2310.6	2663.9	2708.4	2393.1	2491.7	2779.7	3341.9	4137.1
25°	923.0	1197.9	1720.3	2280.1	2646.7	2693.0	2366.3	2488.9	2795.8	3432.7	4220.3
25.5°	897.4	1156.7	1665.5	2241.8	2630.7	2675.2	2339.6	2492.6	2821.2	3537.2	4320.2
26°	873.0	1115.5	1613.5	2200.7	2612.3	2660.2	2312.8	2504.8	2844.8	3612.9	4392.1
26.5°	848.6	1074.3	1566.0	2153.4	2597.5	2645.4	2294.0	2515.5	2865.6	3673.2	4440.3
27°	824.5	1033.1	1525.6	2111.3	2580.2	2633.4	2275.9	2535.6	2888.2	3722.0	4464.2
27.5°	799.8	992.3	1485.1	2063.7	2563.7	2618.5	2260.3	2555.4	2901.5	3750.3	4471.4
28°	774.1	967.2	1445.5	2021.9	2544.7	2606.6	2248.7	2569.4	2911.8	3773.2	4478.6
28.5°	750.0	944.2	1408.9	1989.2	2528.3	2592.9	2235.9	2585.9	2925.6	3806.7	4496.3
29°	726.0	922.4	1369.3	1957.1	2507.8	2582.0	2227.0	2596.7	2942.3	3848.0	4509.8
29.5°	701.3	899.4	1328.9	1928.7	2488.5	2568.6	2219.7	2597.0	2959.2	3898.1	4507.6
30°	677.5	877.7	1292.4	1907.0	2469.7	2556.0	2210.9	2593.1	2990.0	3957.9	4487.6
30.5°	653.1	856.4	1254.3	1884.2	2449.2	2542.4	2204.8	2581.4	3027.3	4000.4	4456.4
31°	629.3	834.1	1216.9	1861.2	2427.7	2530.6	2199.0	2565.2	3066.3	4018.8	4425.0
31.5°	606.6	811.9	1182.4	1840.5	2407.6	2518.6	2193.8	2545.1	3125.4	4025.9	4400.0
32°	584.9	790.1	1149.8	1816.8	2385.1	2506.7	2192.9	2521.4	3175.5	4019.3	4381.3
32.5°	562.6	767.6	1125.8	1789.2	2367.2	2495.5	2191.9	2501.6	3213.2	4013.8	4357.8
33°	541.7	745.7	1101.9	1765.7	2347.9	2486.2	2193.2	2489.1	3247.5	4015.1	4328.0
33.5°	521.7	724.3	1078.0	1737.9	2331.0	2476.6	2192.9	2482.2	3271.5	4017.4	4289.3
34°	501.9	702.6	1054.0	1712.8	2311.5	2468.0	2193.2	2478.9	3284.1	4016.4	4248.5
34.5°	483.6	680.6	1030.3	1690.4	2292.9	2461.2	2192.7	2481.1	3296.4	4008.4	4211.1
35°	466.2	659.7	1013.6	1668.5	2276.5	2453.7	2193.0	2487.3	3304.2	3990.1	4180.6
35.5°	448.3	637.8	998.0	1648.2	2263.4	2446.6	2190.8	2490.9	3308.0	3962.4	4148.2
36°	432.7	618.0	985.1	1632.3	2250.8	2438.9	2190.6	2494.8	3319.3	3931.2	4108.4
36.5°	417.3	598.8	972.1	1615.2	2240.5	2433.5	2189.2	2500.0	3336.6	3901.4	4061.6
37°	401.2	579.5	958.5	1600.8	2231.7	2428.8	2183.5	2499.9	3352.4	3873.5	4015.1
37.5°	386.7	562.3	946.1	1588.7	2222.7	2423.1	2176.7	2500.8	3367.8	3847.8	3968.3
38°	372.8	547.0	933.3	1574.0	2216.4	2418.8	2167.8	2503.1	3379.9	3820.0	3933.4
38.5°	358.9	531.5	920.5	1562.0	2211.4	2415.5	2157.3	2505.4	3384.3	3794.0	3903.3
39°	346.1	516.7	908.6	1551.1	2208.0	2411.4	2149.0	2507.9	3386.5	3764.7	3867.3
39.5°	333.1	503.1	894.7	1536.9	2203.4	2406.9	2137.4	2514.1	3384.0	3732.3	3833.5
40°	320.5	489.9	882.0	1526.4	2199.2	2404.1	2129.9	2520.1	3374.8	3706.1	3801.4
40.5°	308.3	477.5	869.5	1515.2	2191.7	2396.3	2122.3	2526.7	3366.2	3683.9	3771.2
41°	296.5	466.2	855.8	1502.2	2183.9	2389.4	2115.0	2535.2	3358.0	3657.4	3743.2
41.5°	285.4	454.9	842.9	1489.8	2176.2	2381.7	2109.4	2541.1	3350.8	3632.2	3722.1
42°	275.3	445.0	830.8	1478.1	2165.8	2374.8	2103.6	2547.2	3347.8	3605.7	3704.1
42.5°	265.0	434.6	817.3	1463.9	2154.7	2369.2	2099.4	2556.5	3344.9	3578.7	3684.8
43°	255.1	424.9	804.8	1451.5	2143.9	2364.6	2096.7	2562.0	3336.0	3550.8	3661.0
43.5°	246.4	415.8	793.2	1439.8	2133.7	2362.1	2096.3	2567.3	3324.3	3524.9	3639.2
44°	237.6	406.9	780.5	1425.2	2124.1	2360.1	2098.3	2578.1	3307.3	3502.8	3618.6
44.5°	229.3	397.9	768.5	1413.2	2115.6	2357.3	2100.4	2585.3	3283.1	3483.2	3606.2



REPORT NUMBER: P973037

CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	221.7	390.0	758.7	1402.1	2107.5	2356.2	2102.4	2592.7	3259.5	3463.4	3595.4
45.5°	214.4	381.9	748.9	1388.3	2100.3	2353.1	2104.4	2603.2	3240.1	3442.2	3585.0
46°	207.6	373.7	740.7	1377.2	2092.7	2350.7	2105.9	2609.6	3221.7	3417.6	3575.2
46.5°	201.5	366.1	733.7	1365.4	2083.9	2346.8	2105.4	2612.7	3206.7	3392.7	3568.0
47°	195.4	358.7	726.6	1353.3	2075.3	2342.3	2104.4	2619.4	3191.9	3368.3	3559.5
47.5°	189.9	350.8	721.2	1342.6	2066.9	2338.2	2102.7	2622.5	3174.8	3345.5	3551.4
48°	185.2	344.0	715.9	1330.5	2057.0	2332.8	2098.5	2624.4	3155.9	3322.8	3544.7
48.5°	180.1	337.0	710.4	1317.2	2048.8	2326.0	2093.0	2631.2	3136.2	3296.6	3537.4
49°	175.6	330.4	705.4	1304.9	2041.9	2320.2	2085.0	2635.7	3116.5	3269.9	3525.4
49.5°	171.3	324.2	701.0	1291.7	2033.1	2313.2	2077.3	2642.2	3100.3	3240.2	3514.2
50°	167.0	318.1	695.2	1277.2	2023.5	2306.2	2067.3	2650.8	3081.9	3209.4	3497.8
50.5°	163.0	312.1	690.7	1264.2	2015.1	2299.5	2055.5	2652.8	3062.2	3181.3	3478.8
51°	159.2	306.7	685.8	1248.8	2003.3	2292.3	2041.8	2654.2	3042.7	3150.0	3455.8
51.5°	155.4	301.0	679.5	1233.4	1991.9	2282.7	2025.9	2654.3	3017.8	3121.4	3429.6
52°	151.8	295.8	674.5	1220.6	1980.6	2269.8	2009.7	2648.5	2991.2	3096.3	3405.5
52.5°	148.4	290.5	668.0	1206.3	1968.8	2256.9	1991.1	2641.6	2962.1	3065.1	3378.8
53°	144.9	284.8	660.1	1193.3	1954.8	2240.8	1970.3	2632.0	2930.4	3034.4	3351.7
53.5°	141.7	279.5	653.3	1181.6	1941.5	2223.4	1948.9	2615.9	2897.5	3002.8	3333.4
54°	138.4	274.2	645.1	1169.0	1925.9	2202.3	1925.8	2596.7	2861.7	2970.1	3310.1
54.5°	134.9	268.7	637.4	1154.8	1909.2	2178.2	1900.9	2576.2	2826.5	2937.9	3281.0
55°	131.9	263.6	629.4	1142.8	1890.0	2149.5	1876.4	2554.1	2791.8	2907.7	3257.7
55.5°	128.7	258.4	620.7	1131.1	1870.4	2119.3	1848.4	2528.0	2756.0	2876.8	3226.7
56°	125.3	253.1	611.4	1119.3	1847.5	2085.9	1818.9	2499.2	2715.0	2843.0	3195.9
56.5°	122.3	248.2	603.6	1109.1	1825.3	2052.2	1788.5	2468.5	2677.1	2810.3	3167.0
57°	119.3	243.5	594.6	1099.5	1800.8	2013.6	1758.6	2432.8	2638.8	2778.1	3129.1
57.5°	116.3	238.7	585.4	1090.0	1776.5	1976.6	1727.1	2394.4	2602.2	2747.1	3094.7
58°	113.4	234.2	576.7	1081.0	1752.9	1938.5	1695.2	2351.0	2564.4	2710.0	3059.7
58.5°	110.4	229.7	567.6	1072.0	1729.3	1903.1	1666.0	2310.6	2525.3	2675.2	3020.0
59°	107.4	224.6	557.8	1063.1	1706.4	1867.9	1633.8	2266.9	2483.9	2636.9	2969.6
59.5°	104.4	219.5	547.7	1054.1	1681.8	1832.0	1603.4	2223.7	2443.5	2601.5	2919.9
60°	101.3	213.9	537.4	1045.1	1656.7	1795.7	1574.2	2181.1	2403.6	2568.5	2870.6
60.5°	98.2	208.1	526.1	1034.2	1632.1	1760.8	1544.4	2140.1	2364.2	2537.6	2814.8
61°	95.2	203.0	515.5	1022.9	1606.3	1724.0	1514.1	2095.4	2325.5	2506.4	2755.1
61.5°	92.3	198.0	503.6	1009.6	1581.1	1688.7	1484.9	2053.8	2284.4	2469.4	2701.1
62°	89.3	193.1	490.9	994.9	1556.8	1653.6	1458.3	2010.1	2239.8	2427.2	2644.9
62.5°	86.5	188.4	478.8	978.6	1531.5	1619.7	1430.3	1972.1	2195.7	2383.1	2587.8
63°	83.5	183.2	464.8	959.8	1506.0	1588.7	1403.7	1930.7	2151.3	2335.0	2531.9
63.5°	80.7	178.0	451.9	939.4	1480.3	1559.2	1376.9	1888.6	2107.5	2278.4	2471.2
64°	78.0	173.1	438.8	920.4	1455.0	1528.0	1351.1	1848.8	2062.6	2220.6	2412.9
64.5°	75.4	167.7	425.1	901.0	1427.3	1495.3	1324.4	1811.6	2018.6	2166.0	2359.5
65°	72.6	161.9	410.6	882.6	1400.1	1463.0	1296.2	1772.2	1973.6	2109.7	2304.1
65.5°	70.1	156.5	397.7	864.1	1369.8	1432.2	1268.8	1734.1	1928.6	2050.8	2249.2
66°	67.3	151.1	383.6	842.8	1340.7	1398.6	1241.4	1697.1	1883.7	1997.1	2195.1
66.5°	64.6	145.5	370.2	821.8	1311.5	1364.2	1211.4	1659.3	1837.0	1943.5	2139.4
67°	61.6	140.4	356.9	801.2	1281.5	1331.3	1181.9	1618.8	1791.4	1888.3	2087.4



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	58.4	135.9	344.5	779.1	1250.2	1301.6	1153.3	1579.5	1743.6	1835.7	2038.6
68°	53.5	131.0	331.9	755.5	1218.9	1271.9	1124.6	1540.3	1693.7	1782.1	1986.7
68.5°	48.0	126.4	320.1	732.4	1186.5	1240.1	1095.8	1504.2	1645.8	1734.5	1934.4
69°	41.7	121.8	308.8	708.3	1154.8	1206.2	1067.1	1463.8	1595.5	1687.1	1879.3
69.5°	37.8	117.3	297.8	684.8	1122.2	1173.8	1038.3	1426.5	1544.3	1638.5	1821.7
70°	36.7	112.8	287.1	662.1	1089.5	1138.9	1009.5	1389.8	1495.3	1593.0	1764.8
70.5°	35.8	108.3	276.8	636.6	1056.8	1103.9	980.1	1351.4	1446.5	1547.1	1707.7
71°	35.0	103.7	266.7	614.3	1024.1	1069.0	951.2	1311.6	1396.7	1498.4	1649.9
71.5°	34.3	98.0	257.4	594.1	991.4	1034.0	920.8	1273.6	1347.6	1448.5	1593.2
72°	33.5	91.5	247.9	575.2	956.9	999.0	890.7	1235.2	1302.3	1404.0	1541.4
72.5°	32.8	86.9	238.3	556.3	922.7	962.2	858.9	1194.5	1256.7	1355.3	1486.9
73°	32.2	83.6	227.9	537.3	888.1	928.1	829.8	1150.3	1212.2	1304.2	1431.4
73.5°	31.5	80.1	218.0	518.8	852.9	894.1	802.2	1106.2	1171.5	1258.3	1381.0
74°	30.8	76.6	208.9	501.7	819.2	858.0	773.2	1062.0	1130.5	1208.0	1327.2
74.5°	30.2	73.5	201.2	485.4	785.7	822.0	743.1	1017.8	1089.4	1161.1	1276.3
75°	29.5	70.6	193.0	469.9	753.0	788.0	714.3	973.6	1048.3	1114.2	1224.6
75.5°	28.9	67.8	184.9	455.8	722.4	753.8	684.6	926.1	1007.2	1067.3	1172.4
76°	28.3	65.2	177.3	443.1	692.7	720.3	655.4	879.1	966.0	1020.3	1120.3
76.5°	27.6	62.8	169.5	428.7	665.9	688.6	627.2	837.6	924.4	973.5	1068.1
77°	27.0	60.5	162.3	414.5	637.9	656.5	597.7	795.5	880.7	928.5	1016.0
77.5°	26.3	58.2	156.4	400.6	611.6	622.2	568.7	752.8	836.9	884.9	963.9
78°	25.6	55.8	150.3	384.5	581.9	587.3	540.2	713.4	796.3	843.0	916.3
78.5°	24.9	53.6	145.2	369.6	550.7	552.9	509.3	674.7	754.3	798.9	865.7
79°	24.2	51.5	139.8	353.9	517.9	520.1	478.2	636.3	714.4	757.2	816.9
79.5°	23.4	49.4	133.9	338.4	484.5	488.0	448.1	600.9	677.8	718.4	768.1
80°	22.7	47.3	126.9	322.2	451.1	455.8	418.1	565.7	640.6	676.8	720.9
80.5°	22.0	45.4	120.0	306.1	420.5	424.7	389.3	530.8	603.3	636.3	673.6
81°	21.2	43.5	113.1	289.5	391.8	394.1	364.0	497.9	568.9	598.5	631.5
81.5°	20.6	41.7	106.1	272.8	365.1	363.4	337.6	466.2	534.0	558.7	586.9
82°	19.9	39.8	99.2	256.2	337.9	332.3	310.6	433.7	500.7	521.2	543.3
82.5°	19.2	37.9	92.0	237.9	313.0	303.7	283.8	403.1	467.3	485.0	504.0
83°	18.5	36.1	84.9	220.4	288.3	275.8	260.0	373.5	434.8	450.6	465.5
83.5°	17.9	34.2	78.0	203.7	263.7	248.6	238.3	345.5	402.4	415.8	429.8
84°	17.2	32.5	71.4	186.6	239.4	222.7	217.8	318.1	372.1	386.1	398.5
84.5°	16.6	30.8	65.8	169.9	215.8	197.4	197.4	291.4	341.0	355.4	366.7
85°	16.1	29.2	60.5	154.3	193.7	173.7	179.7	266.7	313.4	328.6	338.5
85.5°	15.5	27.7	55.5	141.3	172.3	155.5	162.1	242.8	287.8	303.5	312.7
86°	14.9	26.3	51.1	128.3	156.2	137.3	146.6	220.0	263.4	280.1	288.5
86.5°	14.4	25.0	47.3	115.3	140.0	119.1	134.3	199.7	241.5	258.9	265.7
87°	13.9	23.8	43.9	102.3	123.8	100.9	122.1	182.7	223.1	240.7	246.5
87.5°	13.4	22.6	40.9	89.5	107.6	82.9	109.8	165.8	205.5	223.0	227.7
88°	12.9	21.6	38.3	80.7	91.4	71.0	97.8	151.9	190.0	207.1	210.8
88.5°	12.5	20.6	36.1	72.7	80.4	60.7	89.4	140.2	176.7	192.9	195.9
89°	12.0	19.7	34.1	65.9	71.4	52.5	81.7	132.5	164.9	180.4	182.0
89.5°	11.6	18.9	32.4	60.1	63.7	45.8	75.8	124.9	154.7	168.6	169.9



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	11.3	18.1	30.9	55.4	57.7	40.8	71.2	117.2	145.1	158.8	159.7
90.5°	10.9	17.4	29.7	51.5	53.2	37.1	67.6	109.5	136.4	149.7	150.3
91°	10.6	16.8	28.6	48.3	50.0	34.3	64.8	101.8	129.4	141.0	141.9
91.5°	10.2	16.3	27.8	45.6	47.6	32.4	62.6	97.7	125.0	133.0	133.9
92°	9.8	15.8	27.1	43.4	46.1	31.2	61.0	94.4	120.6	126.9	126.5
92.5°	9.6	15.4	26.7	41.7	45.0	30.5	59.7	91.4	116.2	122.5	122.1
93°	9.4	15.1	26.3	40.5	44.4	30.2	58.5	89.1	111.8	118.1	117.7
93.5°	9.2	14.8	26.1	39.8	44.0	30.1	57.5	87.0	107.5	113.6	113.3
94°	9.0	14.5	26.0	39.3	43.9	30.1	56.7	85.1	104.6	109.2	109.0
94.5°	8.8	14.2	25.8	39.0	43.9	30.3	56.1	83.5	102.1	106.1	106.2
95°	8.7	13.9	25.7	38.8	43.9	30.6	55.6	81.9	99.7	103.3	103.8
95.5°	8.5	13.6	25.6	38.7	44.0	31.0	55.4	80.5	97.4	100.8	101.7
96°	8.4	13.4	25.5	38.5	43.9	31.5	55.4	79.3	95.5	98.5	100.0
96.5°	8.2	13.2	25.3	38.3	43.8	32.0	55.5	78.1	93.6	96.5	98.4
97°	8.1	13.0	25.1	38.0	43.6	32.5	55.6	77.3	91.9	94.7	97.0
97.5°	8.0	12.9	24.8	37.6	43.4	33.1	55.8	76.6	90.3	93.1	95.8
98°	7.9	12.6	24.4	37.2	43.1	33.7	56.1	76.1	89.0	91.7	94.8
98.5°	7.7	12.4	23.9	36.7	42.7	34.3	56.4	75.6	87.8	90.5	93.8
99°	7.6	12.2	23.4	36.2	42.5	35.0	56.7	75.3	86.8	89.4	93.0
99.5°	7.5	12.1	22.8	35.7	42.2	35.6	57.1	75.0	85.9	88.4	92.3
100°	7.3	11.9	22.2	35.1	42.1	36.3	57.5	74.9	85.2	87.4	91.7
100.5°	7.2	11.7	21.6	34.6	42.0	37.0	58.0	74.8	84.7	86.7	90.8
101°	7.1	11.5	21.1	34.1	42.0	37.7	58.5	74.8	84.3	86.3	90.0
101.5°	6.9	11.3	20.6	33.6	42.0	38.4	58.9	74.8	83.9	86.1	89.9
102°	6.7	11.2	20.2	33.2	42.2	39.1	59.4	74.7	83.5	85.9	90.1
102.5°	6.5	11.0	19.8	32.8	42.4	39.7	60.0	74.8	83.1	85.7	90.0
103°	6.3	10.9	19.4	32.5	42.7	40.4	60.6	74.8	82.8	85.5	89.8
103.5°	6.1	10.8	19.1	32.2	43.0	41.1	61.2	74.9	82.5	85.3	89.7
104°	6.0	10.7	18.8	31.9	43.4	41.8	61.8	75.0	82.2	85.2	89.5
104.5°	5.9	10.6	18.6	31.7	43.9	42.5	62.4	75.1	81.9	85.1	89.5
105°	5.8	10.5	18.5	31.6	44.3	43.2	63.0	75.2	81.6	85.0	89.4
105.5°	5.8	10.4	18.4	31.4	44.8	43.9	63.6	75.2	81.3	84.9	89.4
106°	5.7	10.3	18.3	31.4	45.2	44.6	64.2	75.3	81.0	84.7	89.4
106.5°	5.7	10.2	18.2	31.3	45.7	45.3	64.7	75.4	80.7	84.6	89.3
107°	5.6	10.1	18.2	31.3	46.2	45.9	65.3	75.4	80.4	84.4	89.2
107.5°	5.6	10.0	18.1	31.3	46.6	46.5	65.8	75.5	80.1	84.1	89.0
108°	5.5	10.0	18.1	31.3	47.0	47.1	66.3	75.7	79.9	83.8	88.8
108.5°	5.4	9.9	18.1	31.3	47.4	47.7	66.8	76.0	79.7	83.6	88.4
109°	5.4	9.8	18.1	31.3	47.7	48.2	67.2	76.3	79.6	83.3	88.1
109.5°	5.3	9.7	18.1	31.4	48.0	48.7	67.7	76.7	79.5	83.2	87.8
110°	5.2	9.7	18.1	31.4	48.3	49.2	68.2	77.1	79.4	83.1	87.5
110.5°	5.1	9.7	18.1	31.4	48.7	49.7	68.7	77.4	79.4	83.0	87.2
111°	5.1	9.6	18.2	31.5	49.1	50.2	69.3	77.7	79.4	82.9	87.0
111.5°	5.0	9.6	18.2	31.5	49.4	50.7	69.8	78.0	79.3	82.8	86.7
112°	5.0	9.6	18.2	31.5	49.8	51.2	70.3	78.3	79.3	82.8	86.5



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 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.0	9.5	18.2	31.5	50.1	51.7	70.7	78.6	79.3	82.8	86.3
113°	5.0	9.5	18.2	31.5	50.5	52.2	71.2	78.9	79.3	82.7	86.1
113.5°	5.0	9.5	18.2	31.5	50.8	52.6	71.5	79.2	79.3	82.7	86.0
114°	5.0	9.4	18.1	31.5	51.1	53.0	71.9	79.5	79.3	82.6	86.0
114.5°	5.0	9.4	18.1	31.5	51.3	53.4	72.2	79.7	79.2	82.5	86.0
115°	5.0	9.4	18.1	31.4	51.6	53.7	72.6	80.0	79.2	82.4	85.9
115.5°	5.0	9.4	18.0	31.4	51.8	54.0	72.9	80.2	79.2	82.3	85.8
116°	5.0	9.4	18.0	31.4	52.0	54.3	73.1	80.4	79.1	82.3	85.7
116.5°	5.1	9.4	17.9	31.4	52.2	54.4	73.3	80.5	79.1	82.2	85.6
117°	5.1	9.4	17.9	31.3	52.4	54.6	73.5	80.6	79.0	82.2	85.5
117.5°	5.1	9.4	17.8	31.3	52.7	54.7	73.6	80.7	79.0	82.1	85.4
118°	5.2	9.4	17.7	31.3	52.9	54.8	73.7	80.8	79.0	82.1	85.3
118.5°	5.2	9.5	17.7	31.3	53.0	54.9	73.6	80.8	79.0	82.0	85.3
119°	5.3	9.5	17.7	31.3	53.0	54.9	73.6	80.9	79.0	82.0	85.1
119.5°	5.3	9.6	17.6	31.3	53.0	54.9	73.4	80.9	79.0	82.0	85.1
120°	5.4	9.6	17.6	31.3	53.0	54.8	73.2	80.9	79.0	82.0	85.0
120.5°	5.4	9.6	17.6	31.3	53.0	54.6	73.1	80.9	79.0	82.0	84.9
121°	5.5	9.7	17.6	31.2	52.9	54.4	72.9	80.9	79.0	82.1	84.9
121.5°	5.6	9.7	17.6	31.2	52.9	54.1	72.6	80.9	79.0	82.1	84.8
122°	5.7	9.8	17.6	31.2	52.8	53.8	72.3	80.9	79.0	82.2	84.8
122.5°	5.7	9.8	17.6	31.2	52.8	53.5	71.9	80.8	79.1	82.2	84.8
123°	5.8	9.8	17.6	31.2	52.7	53.1	71.5	80.9	79.1	82.3	84.8
123.5°	5.9	9.9	17.7	31.2	52.6	52.8	71.1	80.9	79.2	82.4	84.8
124°	6.0	9.9	17.7	31.2	52.5	52.4	70.7	80.9	79.3	82.5	84.8
124.5°	6.0	10.0	17.7	31.2	52.4	52.0	70.3	81.0	79.4	82.6	84.8
125°	6.1	10.1	17.8	31.3	52.3	51.7	69.9	81.1	79.5	82.7	84.8
125.5°	6.2	10.1	17.9	31.3	52.3	51.5	69.6	81.3	79.7	82.8	84.8
126°	6.2	10.2	17.9	31.4	52.2	51.2	69.2	81.4	79.9	82.9	84.9
126.5°	6.3	10.2	18.0	31.5	52.2	51.0	68.9	81.6	80.1	83.1	84.8
127°	6.4	10.3	18.0	31.6	52.2	50.8	68.6	81.7	80.3	83.2	84.9
127.5°	6.4	10.4	18.1	31.7	52.3	50.6	68.3	81.9	80.5	83.3	84.9
128°	6.5	10.4	18.2	31.9	52.3	50.5	68.0	82.0	80.8	83.4	84.9
128.5°	6.5	10.5	18.2	32.0	52.4	50.4	67.8	82.2	81.0	83.5	84.9
129°	6.6	10.5	18.3	32.2	52.4	50.3	67.6	82.3	81.2	83.6	84.9
129.5°	6.6	10.6	18.4	32.3	52.5	50.2	67.3	82.5	81.5	83.7	84.8
130°	6.7	10.6	18.4	32.5	52.5	50.2	67.1	82.6	81.7	83.7	84.8
130.5°	6.7	10.7	18.5	32.7	52.6	50.1	66.9	82.7	81.9	83.7	84.8
131°	6.7	10.8	18.6	32.9	52.6	50.0	66.7	82.7	82.2	83.7	84.7
131.5°	6.8	10.8	18.6	33.0	52.7	50.0	66.4	82.7	82.4	83.6	84.5
132°	6.8	10.9	18.7	33.2	52.7	49.9	66.1	82.7	82.5	83.6	84.4
132.5°	6.8	10.9	18.8	33.4	52.7	49.8	65.9	82.6	82.7	83.5	84.1
133°	6.9	11.0	18.9	33.6	52.6	49.7	65.6	82.4	82.8	83.4	83.8
133.5°	6.9	11.0	18.9	33.7	52.6	49.6	65.2	82.2	82.9	83.2	83.5
134°	6.9	11.1	19.0	33.9	52.5	49.4	64.8	81.9	82.9	83.0	83.1
134.5°	7.0	11.2	19.1	34.1	52.4	49.2	64.4	81.6	82.8	82.8	82.7



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 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	7.0	11.2	19.2	34.2	52.2	49.1	64.0	81.3	82.7	82.5	82.3
135.5°	7.0	11.3	19.3	34.3	52.0	48.8	63.5	80.9	82.6	82.3	81.8
136°	7.0	11.3	19.3	34.5	51.7	48.6	63.1	80.4	82.4	81.9	81.2
136.5°	7.1	11.4	19.4	34.6	51.5	48.3	62.5	79.8	82.1	81.5	80.6
137°	7.1	11.4	19.5	34.7	51.1	48.0	61.9	79.3	81.8	81.1	79.9
137.5°	7.1	11.5	19.5	34.7	50.7	47.7	61.3	78.6	81.3	80.6	79.3
138°	7.1	11.5	19.5	34.8	50.3	47.3	60.7	77.9	80.9	80.1	78.6
138.5°	7.1	11.5	19.6	34.8	49.9	46.9	60.0	77.1	80.3	79.5	78.0
139°	7.1	11.5	19.6	34.8	49.4	46.5	59.3	76.3	79.7	78.9	77.3
139.5°	7.1	11.5	19.6	34.7	48.8	46.1	58.6	75.4	79.0	78.2	76.7
140°	7.1	11.5	19.6	34.6	48.3	45.7	57.9	74.5	78.2	77.5	76.0
140.5°	7.1	11.5	19.5	34.5	47.7	45.1	57.0	73.5	77.4	76.7	75.4
141°	7.1	11.5	19.5	34.4	47.0	44.6	56.2	72.4	76.5	75.8	74.8
141.5°	7.1	11.5	19.4	34.2	46.2	44.0	55.3	71.4	75.5	74.9	74.1
142°	7.1	11.5	19.4	34.0	45.5	43.4	54.4	70.2	74.5	74.0	73.5
142.5°	7.1	11.4	19.3	33.8	44.8	42.8	53.4	69.0	73.4	72.9	72.9
143°	7.1	11.4	19.2	33.5	44.0	42.1	52.4	67.7	72.3	71.9	72.2
143.5°	7.0	11.3	19.1	33.2	43.1	41.4	51.3	66.4	71.1	70.8	71.5
144°	7.0	11.2	19.0	32.8	42.3	40.7	50.3	65.1	69.8	69.7	70.8
144.5°	7.0	11.2	18.8	32.4	41.3	39.9	49.2	63.7	68.4	68.5	70.1
145°	6.9	11.1	18.7	32.0	40.4	39.1	48.1	62.3	67.1	67.4	69.3
145.5°	6.9	11.0	18.5	31.6	39.5	38.3	46.9	60.8	65.8	66.3	68.5
146°	6.8	10.9	18.3	31.1	38.5	37.5	45.7	59.3	64.3	65.2	67.6
146.5°	6.7	10.8	18.1	30.5	37.5	36.6	44.5	57.7	62.9	64.1	66.7
147°	6.7	10.7	17.9	30.0	36.5	35.7	43.3	56.2	61.4	62.9	65.7
147.5°	6.6	10.5	17.7	29.3	35.5	34.8	42.0	54.6	59.9	61.8	64.7
148°	6.5	10.4	17.5	28.7	34.5	34.0	40.8	53.0	58.5	60.7	63.6
148.5°	6.4	10.2	17.3	28.1	33.5	33.0	39.5	51.3	57.0	59.6	62.5
149°	6.3	10.1	17.0	27.4	32.4	32.1	38.3	49.7	55.5	58.5	61.4
149.5°	6.2	10.0	16.7	26.6	31.4	31.2	37.0	48.0	54.1	57.2	60.2
150°	6.1	9.8	16.4	25.9	30.4	30.2	35.6	46.3	52.5	56.0	59.1
150.5°	5.9	9.6	16.1	25.1	29.3	29.3	34.3	44.6	50.9	54.8	57.9
151°	5.8	9.5	15.8	24.4	28.3	28.3	33.0	42.9	49.3	53.5	56.7
151.5°	5.7	9.3	15.5	23.6	27.3	27.4	31.8	41.3	47.7	52.2	55.5
152°	5.6	9.1	15.2	22.9	26.2	26.5	30.5	39.7	46.1	50.9	54.3
152.5°	5.4	8.8	14.8	22.1	25.3	25.5	29.3	38.0	44.4	49.6	53.0
153°	5.3	8.6	14.4	21.3	24.2	24.6	28.1	36.4	42.8	48.2	51.7
153.5°	5.2	8.4	14.0	20.5	23.3	23.7	26.9	34.9	41.1	46.9	50.4
154°	5.0	8.2	13.6	19.7	22.3	22.8	25.7	33.3	39.4	45.5	49.0
154.5°	4.9	7.9	13.2	18.9	21.4	21.8	24.5	31.7	37.7	44.1	47.6
155°	4.7	7.7	12.8	18.1	20.4	21.0	23.4	30.2	35.9	42.7	46.3
155.5°	4.5	7.4	12.3	17.3	19.5	20.1	22.3	28.7	34.2	41.1	44.9
156°	4.4	7.1	11.8	16.5	18.6	19.2	21.2	27.2	32.5	39.2	43.5
156.5°	4.2	6.8	11.3	15.8	17.8	18.4	20.2	25.8	30.8	37.3	42.2
157°	4.1	6.5	10.8	15.0	16.9	17.6	19.1	24.4	29.2	35.4	40.8



REPORT NUMBER: P973037  
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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	4.0	6.2	10.3	14.3	16.1	16.8	18.1	23.0	27.4	33.5	39.5
158°	4.0	6.0	9.8	13.5	15.3	16.0	17.1	21.7	25.7	31.7	38.1
158.5°	3.9	5.7	9.3	12.9	14.5	15.2	16.2	20.4	24.0	29.8	36.7
159°	3.9	5.3	8.8	12.2	13.7	14.5	15.3	19.2	22.3	27.8	34.7
159.5°	3.9	5.0	8.3	11.5	13.0	13.7	14.4	17.9	21.0	26.0	32.6
160°	3.9	4.8	7.8	10.8	12.3	13.0	13.6	16.7	19.6	24.2	30.4
160.5°	3.8	4.5	7.4	10.1	11.6	12.3	12.7	15.6	18.4	22.4	28.4
161°	3.8	4.4	6.9	9.5	10.9	11.6	12.0	14.6	17.1	20.7	26.3
161.5°	3.8	4.2	6.4	8.9	10.2	11.0	11.3	13.6	16.0	18.8	24.1
162°	3.8	4.1	6.0	8.3	9.5	10.3	10.6	12.7	14.8	17.0	22.1
162.5°	3.7	4.0	5.6	7.7	8.9	9.6	9.9	11.8	13.7	15.3	20.2
163°	3.7	3.9	5.2	7.2	8.3	9.0	9.2	10.9	12.8	13.6	18.2
163.5°	3.7	3.8	4.9	6.7	7.8	8.4	8.6	10.0	11.8	12.7	16.5
164°	3.7	3.7	4.6	6.2	7.2	7.9	8.0	9.1	10.9	11.8	14.9
164.5°	3.7	3.6	4.4	5.7	6.7	7.3	7.5	8.4	9.9	10.8	13.3
165°	3.7	3.6	4.2	5.3	6.3	6.8	7.0	7.7	9.0	9.9	11.7
165.5°	3.7	3.6	4.0	4.9	5.8	6.4	6.5	7.1	8.2	9.0	10.1
166°	3.7	3.6	3.8	4.6	5.4	5.9	6.1	6.5	7.5	8.3	8.5
166.5°	3.7	3.6	3.7	4.3	5.0	5.5	5.7	6.0	6.9	7.6	7.9
167°	3.7	3.6	3.6	4.1	4.7	5.2	5.3	5.5	6.3	7.0	7.4
167.5°	3.7	3.7	3.6	3.9	4.4	4.8	4.9	5.1	5.8	6.4	7.0
168°	3.7	3.6	3.6	3.7	4.1	4.5	4.6	4.7	5.3	5.9	6.6
168.5°	3.7	3.6	3.6	3.6	3.9	4.2	4.3	4.3	4.9	5.6	6.3
169°	3.7	3.6	3.6	3.6	3.7	3.9	4.0	4.0	4.5	5.3	5.9
169.5°	3.7	3.6	3.6	3.6	3.6	3.7	3.7	3.7	4.3	5.1	5.6
170°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.2	4.8	5.4
170.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	4.1	4.7	5.1
171°	3.6	3.5	3.6	3.6	3.6	3.6	3.6	3.7	4.0	4.5	4.9
171.5°	3.6	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.9	4.4	4.7
172°	3.5	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.9	4.3	4.6
172.5°	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.9	4.2	4.4
173°	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.8	4.1	4.3
173.5°	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.8	4.0	4.2
174°	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.8	3.8	4.0	4.1
174.5°	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.8	3.8	3.9	4.1
175°	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.8	3.8	3.9	4.0
175.5°	3.4	3.4	3.4	3.5	3.6	3.6	3.7	3.8	3.9	3.9	4.0
176°	3.4	3.4	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	4.0
176.5°	3.3	3.3	3.4	3.4	3.5	3.6	3.7	3.8	3.8	3.9	3.9
177°	3.3	3.3	3.3	3.4	3.5	3.6	3.7	3.8	3.8	3.9	3.9
177.5°	3.3	3.3	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.9	3.9
178°	3.3	3.2	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.9	4.0
178.5°	3.2	3.2	3.3	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
179°	3.2	3.2	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
179.5°	3.2	3.2	3.2	3.3	3.4	3.5	3.6	3.8	3.9	4.0	4.0





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CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	3221.1	3221.1	3221.1	3221.1
0.5°	3274.3	3280.8	3281.8	3271.5
1°	3303.9	3303.7	3300.1	3239.2
1.5°	3261.4	3238.2	3222.9	3123.4
2°	3161.5	3118.4	3093.4	2977.7
2.5°	3027.1	2984.1	2961.1	2892.6
3°	2938.1	2916.5	2912.2	2890.4
3.5°	2909.7	2915.0	2925.9	2912.1
4°	2925.5	2939.1	2936.2	2881.8
4.5°	2935.6	2912.5	2875.1	2766.3
5°	2890.4	2812.9	2747.3	2632.7
5.5°	2783.6	2678.6	2632.9	2586.4
6°	2667.2	2617.0	2622.9	2652.8
6.5°	2619.0	2653.6	2715.3	2779.1
7°	2649.6	2761.2	2837.3	2870.1
7.5°	2746.8	2867.3	2902.4	2858.4
8°	2847.8	2898.2	2870.8	2772.4
8.5°	2903.0	2846.4	2787.9	2724.1
9°	2874.9	2777.7	2761.6	2779.3
9.5°	2811.6	2768.6	2834.8	2934.3
10°	2766.5	2850.7	2996.7	3101.7
10.5°	2793.1	2999.6	3151.2	3176.9
11°	2887.1	3144.3	3205.5	3141.9
11.5°	3032.6	3202.6	3166.7	3063.2
12°	3145.8	3167.1	3091.5	3047.0
12.5°	3185.7	3098.3	3081.1	3124.7
13°	3158.8	3073.1	3155.3	3232.7
13.5°	3094.4	3126.0	3258.3	3287.3
14°	3059.1	3214.2	3313.4	3295.3
14.5°	3093.8	3284.3	3328.3	3302.3
15°	3166.1	3319.4	3343.9	3347.2
15.5°	3235.4	3333.8	3395.9	3467.6
16°	3279.1	3364.2	3503.5	3631.2
16.5°	3303.6	3439.8	3664.8	3808.6
17°	3322.6	3567.0	3838.2	3961.5
17.5°	3359.7	3734.7	4005.9	4078.7
18°	3439.8	3900.6	4130.4	4169.2
18.5°	3563.0	4040.8	4220.7	4261.3
19°	3713.4	4147.1	4309.5	4378.5
19.5°	3867.9	4230.1	4424.2	4526.6
20°	3986.7	4311.1	4566.5	4679.8
20.5°	4082.5	4424.4	4708.2	4807.1
21°	4154.9	4559.2	4826.3	4904.6
21.5°	4227.4	4687.3	4921.2	4978.3
22°	4322.1	4782.7	4992.2	5033.4



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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
22.5°	4434.2	4851.4	5046.2	5060.6
23°	4543.9	4910.8	5076.9	5070.6
23.5°	4635.3	4955.6	5080.5	5065.0
24°	4696.5	4987.3	5068.0	5047.7
24.5°	4728.2	4985.5	5048.7	5030.8
25°	4760.7	4969.1	5037.1	5005.0
25.5°	4797.8	4944.5	5027.9	4978.0
26°	4810.5	4931.4	5007.6	4946.9
26.5°	4809.4	4927.5	4976.0	4926.1
27°	4793.8	4913.2	4939.1	4910.1
27.5°	4764.6	4879.9	4921.9	4874.4
28°	4745.9	4830.5	4902.7	4831.5
28.5°	4732.9	4794.4	4873.7	4782.2
29°	4715.7	4784.0	4827.8	4735.6
29.5°	4691.1	4772.1	4771.3	4687.6
30°	4651.8	4732.1	4719.5	4650.1
30.5°	4607.8	4665.9	4679.4	4610.6
31°	4578.1	4612.0	4650.3	4567.7
31.5°	4555.6	4576.0	4618.5	4521.0
32°	4530.1	4553.8	4567.1	4470.5
32.5°	4483.3	4522.6	4502.0	4430.9
33°	4422.8	4474.0	4446.7	4385.8
33.5°	4377.0	4414.7	4400.8	4322.3
34°	4342.6	4361.1	4353.5	4246.1
34.5°	4308.0	4316.0	4288.6	4184.5
35°	4262.0	4281.4	4230.1	4143.1
35.5°	4205.8	4243.1	4182.2	4118.1
36°	4153.4	4197.5	4148.8	4105.3
36.5°	4111.0	4149.2	4134.1	4108.4
37°	4074.8	4113.3	4128.4	4123.8
37.5°	4046.5	4086.9	4136.1	4141.9
38°	4016.0	4076.6	4151.2	4169.3
38.5°	3983.6	4076.0	4175.8	4197.1
39°	3948.5	4079.7	4206.1	4230.0
39.5°	3916.8	4095.8	4240.3	4262.1
40°	3896.9	4117.8	4277.4	4294.2
40.5°	3884.1	4145.7	4316.4	4324.8
41°	3879.4	4175.6	4352.0	4351.0
41.5°	3878.7	4204.9	4375.8	4376.6
42°	3888.6	4228.0	4396.9	4391.1
42.5°	3900.3	4249.0	4418.9	4415.9
43°	3906.8	4264.8	4445.7	4442.9
43.5°	3917.6	4278.0	4466.6	4463.5
44°	3929.0	4294.8	4480.4	4478.1
44.5°	3937.8	4305.3	4500.8	4474.7



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
45°	3947.6	4313.5	4505.4	4468.5
45.5°	3956.4	4321.8	4496.7	4441.6
46°	3963.3	4323.9	4480.9	4414.1
46.5°	3964.7	4321.8	4444.5	4365.5
47°	3967.5	4306.2	4408.4	4324.2
47.5°	3964.7	4287.4	4367.9	4277.7
48°	3957.7	4250.8	4328.3	4246.8
48.5°	3950.5	4214.6	4291.4	4208.8
49°	3936.5	4174.8	4244.0	4158.9
49.5°	3920.7	4140.9	4194.7	4101.3
50°	3898.1	4098.3	4134.5	4044.1
50.5°	3878.6	4059.4	4077.3	3999.0
51°	3842.3	4014.7	4021.6	3960.7
51.5°	3806.2	3960.6	3976.5	3927.7
52°	3765.9	3907.6	3932.2	3893.7
52.5°	3728.7	3859.6	3895.8	3863.2
53°	3693.0	3816.6	3857.5	3821.2
53.5°	3654.8	3776.7	3812.2	3779.1
54°	3615.9	3732.6	3771.4	3741.0
54.5°	3570.8	3696.0	3729.9	3698.3
55°	3526.4	3655.5	3686.0	3643.6
55.5°	3485.3	3615.8	3625.4	3577.1
56°	3450.0	3563.4	3557.6	3508.1
56.5°	3411.2	3506.4	3484.6	3430.9
57°	3362.3	3441.2	3417.6	3369.0
57.5°	3307.5	3383.6	3354.0	3312.1
58°	3253.7	3313.7	3291.9	3250.6
58.5°	3202.3	3252.1	3229.9	3191.3
59°	3145.9	3187.9	3166.0	3123.9
59.5°	3082.2	3120.5	3096.2	3047.3
60°	3018.1	3050.7	3021.5	2958.1
60.5°	2953.5	2984.3	2942.9	2872.1
61°	2888.8	2907.8	2857.3	2786.8
61.5°	2827.1	2833.6	2776.8	2707.2
62°	2757.0	2755.3	2697.7	2639.0
62.5°	2690.1	2682.2	2626.0	2578.7
63°	2624.4	2612.0	2570.9	2535.3
63.5°	2556.6	2550.9	2520.6	2494.6
64°	2490.9	2488.5	2473.3	2450.1
64.5°	2431.7	2438.6	2424.1	2401.6
65°	2375.5	2389.3	2374.2	2353.6
65.5°	2319.7	2334.8	2317.3	2288.3
66°	2266.3	2276.5	2256.9	2214.4
66.5°	2213.1	2218.4	2194.0	2143.5
67°	2156.1	2154.5	2125.1	2077.4



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
67.5°	2100.9	2087.6	2057.8	2016.2
68°	2042.0	2021.6	2002.8	1961.3
68.5°	1977.9	1963.1	1950.5	1907.7
69°	1914.6	1904.3	1897.7	1858.0
69.5°	1856.1	1849.5	1845.5	1802.9
70°	1798.1	1792.8	1788.7	1741.5
70.5°	1741.3	1737.0	1729.7	1681.2
71°	1683.9	1681.6	1671.7	1622.7
71.5°	1627.9	1622.6	1611.8	1564.2
72°	1569.8	1565.9	1553.0	1511.7
72.5°	1514.4	1511.3	1497.4	1459.3
73°	1460.1	1451.8	1440.5	1401.9
73.5°	1406.5	1392.3	1382.3	1344.0
74°	1350.9	1337.6	1323.0	1287.3
74.5°	1292.4	1283.1	1262.8	1221.7
75°	1238.0	1221.4	1204.4	1158.0
75.5°	1182.0	1164.2	1146.0	1095.4
76°	1126.1	1107.0	1087.6	1032.6
76.5°	1070.2	1049.7	1029.2	972.9
77°	1014.3	992.5	970.8	916.5
77.5°	958.6	935.3	911.1	860.4
78°	907.5	880.7	855.5	807.2
78.5°	855.7	827.1	800.4	757.6
79°	802.6	774.2	748.6	709.7
79.5°	750.7	720.0	699.6	660.9
80°	698.3	671.5	655.0	620.0
80.5°	650.0	626.0	611.1	579.7
81°	604.6	584.3	572.0	541.9
81.5°	559.7	546.3	537.1	508.8
82°	519.7	510.0	502.6	476.6
82.5°	481.0	474.3	467.5	444.4
83°	445.3	443.3	436.8	412.1
83.5°	413.0	411.5	405.9	379.9
84°	383.4	379.6	374.7	347.7
84.5°	355.7	350.9	346.0	320.8
85°	330.0	325.1	319.0	295.1
85.5°	305.4	298.6	294.0	273.0
86°	282.6	275.7	271.9	252.8
86.5°	261.7	254.9	250.7	234.5
87°	242.2	235.4	232.2	218.1
87.5°	223.2	218.7	217.0	204.1
88°	207.2	203.4	202.8	191.0
88.5°	192.2	189.6	189.9	180.1
89°	179.5	178.3	179.1	170.2
89.5°	167.7	167.7	169.0	161.2



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
90°	157.5	158.3	159.9	153.7
90.5°	148.5	150.7	152.8	146.9
91°	141.3	143.9	146.2	141.0
91.5°	134.4	138.0	140.3	136.1
92°	127.9	132.6	135.8	131.6
92.5°	124.1	127.2	130.7	126.6
93°	120.4	122.0	125.6	121.9
93.5°	116.6	119.6	121.6	118.6
94°	112.9	117.1	119.7	116.2
94.5°	109.2	114.6	117.8	114.3
95°	107.1	112.2	116.0	112.8
95.5°	105.5	110.5	114.1	111.3
96°	103.8	108.9	112.2	109.6
96.5°	102.4	107.7	111.0	108.6
97°	101.3	106.7	110.0	107.9
97.5°	100.2	105.8	109.1	107.3
98°	99.4	105.1	108.4	106.5
98.5°	98.7	104.4	107.7	105.7
99°	97.9	103.7	106.9	105.2
99.5°	97.2	103.0	106.3	104.5
100°	96.7	102.3	105.5	103.7
100.5°	96.1	101.7	104.8	102.9
101°	94.9	101.0	104.0	102.1
101.5°	93.9	99.5	102.7	100.2
102°	93.7	98.1	100.8	98.7
102.5°	94.1	97.9	99.6	98.0
103°	93.9	98.3	99.6	98.2
103.5°	93.6	98.1	99.9	98.1
104°	93.3	97.5	99.4	97.7
104.5°	93.0	97.1	98.9	97.1
105°	92.8	96.6	98.2	96.5
105.5°	92.5	96.2	97.7	96.0
106°	92.3	95.9	97.1	95.4
106.5°	92.2	95.5	96.7	94.9
107°	92.0	95.3	96.4	94.6
107.5°	91.9	95.0	96.0	94.2
108°	91.6	94.7	95.6	93.7
108.5°	91.2	94.3	95.2	93.1
109°	90.8	93.8	94.6	92.5
109.5°	90.3	93.2	93.9	91.7
110°	89.8	92.6	93.3	90.9
110.5°	89.4	92.0	92.5	90.0
111°	88.9	91.4	91.8	89.3
111.5°	88.5	90.9	91.1	88.5
112°	88.1	90.3	90.4	87.7



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	87.7	89.7	89.7	87.0
113°	87.3	89.2	89.0	86.3
113.5°	87.0	88.6	88.4	85.7
114°	86.7	88.0	87.7	85.2
114.5°	86.5	87.5	87.2	84.7
115°	86.4	87.2	86.7	84.1
115.5°	86.4	86.8	86.2	83.6
116°	86.3	86.6	85.7	83.0
116.5°	86.3	86.4	85.3	82.6
117°	86.3	86.3	85.0	82.2
117.5°	86.2	86.3	84.8	82.0
118°	86.2	86.2	84.7	81.8
118.5°	86.2	86.2	84.6	81.7
119°	86.2	86.2	84.5	81.6
119.5°	86.2	86.3	84.5	81.6
120°	86.1	86.3	84.5	81.7
120.5°	86.0	86.3	84.6	81.8
121°	86.0	86.3	84.7	81.9
121.5°	86.0	86.3	84.7	82.0
122°	86.0	86.2	84.7	82.1
122.5°	86.0	86.3	84.7	82.2
123°	85.9	86.3	84.7	82.4
123.5°	85.9	86.3	84.8	82.5
124°	85.9	86.3	84.9	82.7
124.5°	85.8	86.4	84.9	82.9
125°	85.9	86.4	85.0	83.1
125.5°	85.9	86.5	85.1	83.3
126°	85.9	86.6	85.3	83.5
126.5°	86.0	86.7	85.4	83.7
127°	86.0	86.8	85.5	83.7
127.5°	86.0	86.9	85.4	83.8
128°	86.1	87.1	85.5	83.8
128.5°	86.2	87.1	85.5	83.8
129°	86.2	87.2	85.5	83.8
129.5°	86.2	87.3	85.4	83.8
130°	86.2	87.3	85.4	83.7
130.5°	86.2	87.4	85.4	83.7
131°	86.2	87.4	85.3	83.6
131.5°	86.1	87.3	85.3	83.5
132°	86.0	87.2	85.2	83.4
132.5°	85.9	87.1	85.0	83.1
133°	85.8	86.9	84.8	82.8
133.5°	85.6	86.7	84.4	82.5
134°	85.4	86.5	84.1	82.0
134.5°	85.1	86.2	83.7	81.5



REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
135°	84.7	85.8	83.2	81.0
135.5°	84.4	85.4	82.8	80.4
136°	84.0	85.0	82.4	79.8
136.5°	83.6	84.5	81.9	79.1
137°	83.2	83.9	81.3	78.3
137.5°	82.6	83.4	80.7	77.6
138°	82.0	82.9	80.0	76.7
138.5°	81.2	82.3	79.3	75.9
139°	80.0	81.7	78.7	75.1
139.5°	79.4	81.1	78.1	74.5
140°	78.9	80.3	77.4	73.7
140.5°	78.3	79.4	76.7	73.1
141°	77.9	78.3	76.0	72.1
141.5°	77.3	77.3	75.1	71.2
142°	76.7	76.7	74.1	70.1
142.5°	76.0	76.2	72.4	67.9
143°	75.3	75.6	71.6	67.2
143.5°	74.5	75.0	71.0	66.8
144°	73.8	74.4	70.3	66.2
144.5°	72.9	73.7	69.7	65.7
145°	72.1	73.1	69.0	65.2
145.5°	71.2	72.3	68.3	64.6
146°	70.2	71.5	67.5	64.0
146.5°	69.3	70.7	66.8	63.4
147°	68.4	69.9	66.0	62.7
147.5°	67.3	69.0	65.2	62.0
148°	66.3	68.0	64.3	61.3
148.5°	65.3	67.1	63.5	60.6
149°	64.2	66.0	62.6	59.8
149.5°	63.1	64.9	61.7	59.1
150°	61.9	63.9	60.9	58.3
150.5°	60.7	62.8	59.9	57.5
151°	59.5	61.6	59.0	56.7
151.5°	58.4	60.5	58.1	55.7
152°	57.1	59.2	57.0	54.8
152.5°	55.9	58.0	56.0	53.8
153°	54.7	56.8	54.9	52.7
153.5°	53.4	55.5	53.8	52.3
154°	52.1	54.2	52.6	51.3
154.5°	50.9	52.9	51.6	50.3
155°	49.6	51.6	50.5	49.3
155.5°	48.3	50.3	49.4	48.3
156°	47.0	49.0	48.3	47.2
156.5°	45.6	47.7	47.2	46.2
157°	44.1	46.4	46.1	45.1





REPORT NUMBER: P973037  
 CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
157.5°	42.8	45.0	45.0	44.0
158°	41.4	43.6	43.8	42.8
158.5°	40.0	42.2	42.6	41.6
159°	38.7	40.8	41.3	40.4
159.5°	37.4	39.4	40.1	39.1
160°	35.9	38.0	38.8	37.9
160.5°	34.5	36.8	37.6	36.6
161°	32.8	35.4	36.4	35.4
161.5°	30.4	34.0	35.2	34.3
162°	28.1	32.6	34.0	33.0
162.5°	25.8	30.7	32.7	31.7
163°	23.5	28.1	31.2	30.3
163.5°	21.4	25.7	29.2	28.1
164°	19.3	23.4	26.6	25.7
164.5°	17.4	21.0	24.1	23.2
165°	15.6	18.9	21.8	20.9
165.5°	13.9	16.9	19.5	18.7
166°	12.3	15.2	17.4	16.6
166.5°	10.6	13.4	15.6	14.8
167°	8.9	11.7	13.8	13.0
167.5°	7.3	9.9	12.0	11.2
168°	6.9	8.2	10.1	9.3
168.5°	6.6	6.5	8.3	7.3
169°	6.2	6.2	6.6	5.6
169.5°	5.9	5.9	6.1	5.3
170°	5.6	5.7	5.9	5.1
170.5°	5.4	5.5	5.7	4.8
171°	5.1	5.3	5.6	4.6
171.5°	4.9	5.1	5.4	4.4
172°	4.8	5.0	5.2	4.2
172.5°	4.6	4.8	5.1	4.0
173°	4.5	4.6	4.9	3.9
173.5°	4.3	4.5	4.8	3.7
174°	4.3	4.4	4.7	3.6
174.5°	4.2	4.3	4.5	3.5
175°	4.1	4.2	4.3	3.4
175.5°	4.1	4.2	4.3	3.3
176°	4.0	4.1	4.2	3.2
176.5°	4.0	4.1	4.2	3.2
177°	4.0	4.1	4.2	3.1
177.5°	4.0	4.1	4.2	3.1
178°	4.0	4.1	4.3	3.2
178.5°	4.0	4.2	4.3	3.2
179°	4.1	4.2	4.3	3.2
179.5°	4.1	4.2	4.4	3.3



REPORT NUMBER: P973037  
CATALOG NUMBER: WP-6984-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
180°	3.4	3.4	3.4	3.4

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2410-249-1

Test Date: 10/24/2024

Luminaire Tested: WP-6984-3000K-H (100W)

Data in this report applies to families of products including WP-6984-3000K-H (100W)

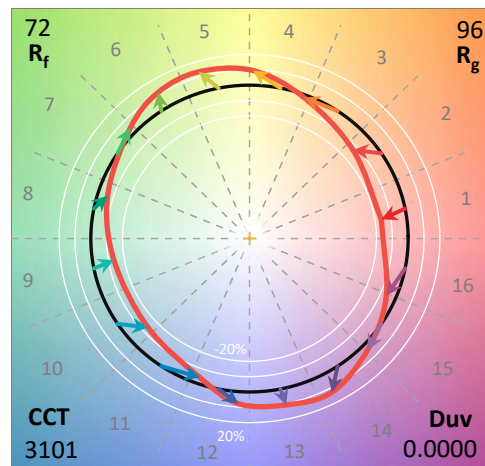
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2410-249-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 10/24/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Lumark  
 Catalog Number: **WP-6984-3000K-H (100W)**  
 Description: DIALITE SQLED WALL PACK SAMPLE 100w-3000K HIGH OUTPUT

**Spectral Parameters**

CCT (K): 3101  
 CIE u': 0.2471  
 CIE v': 0.5193  
 Duv: 0.0000  
 CIE x: 0.4299  
 CIE y: 0.4015  
 CIE z: 0.1686  
 Peak Wavelength (nm): 596  
 Dominant Wavelength (nm): 582  
 Purity: 49.54025  
 Rf: 72.3  
 Rg: 96

CRI (Ra):	70.7		
R1:	67.4	R9:	-31.2
R2:	79.4	R10:	51.8
R3:	89.6	R11:	62.2
R4:	67.9	R12:	42.7
R5:	66.0	R13:	69.2
R6:	70.5	R14:	93.8
R7:	78.5	R15:	60.4
R8:	46.0		



**Test Conditions**

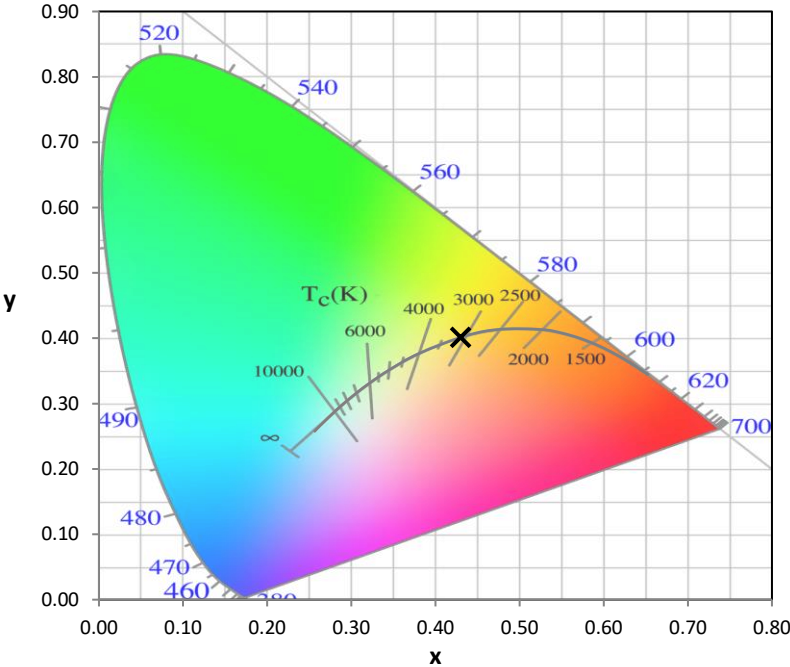
Stabilization Time: 49M  
 Operation Time: 1H 49M  
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-1

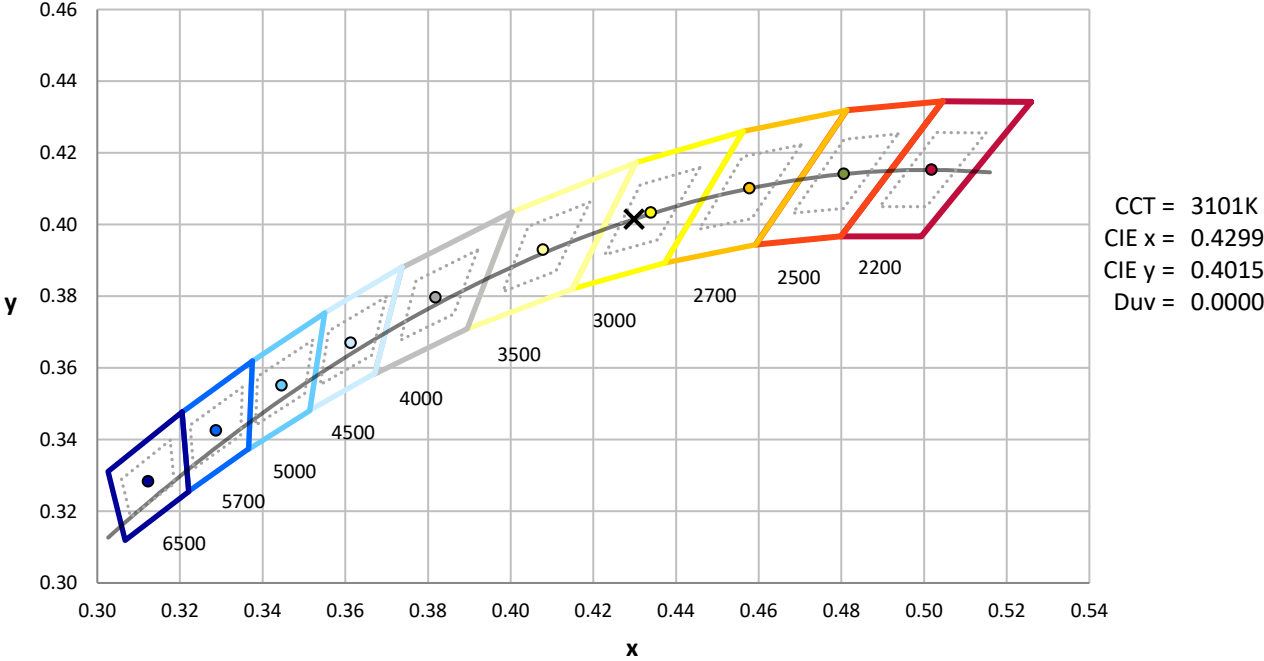
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2410-249-1

CIE 1931 Chromaticity Diagram



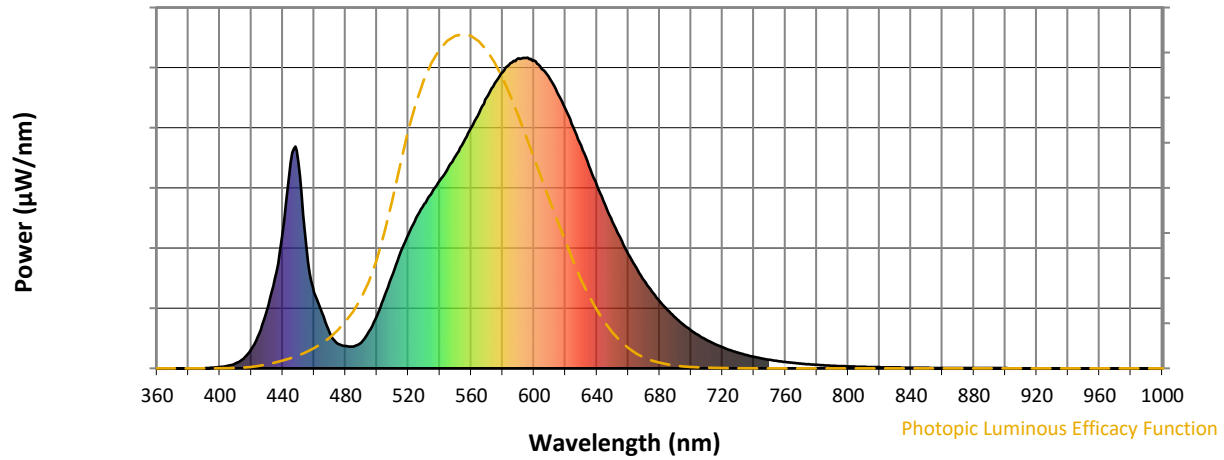
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-1

**Photopic Flux vs. Wavelength**

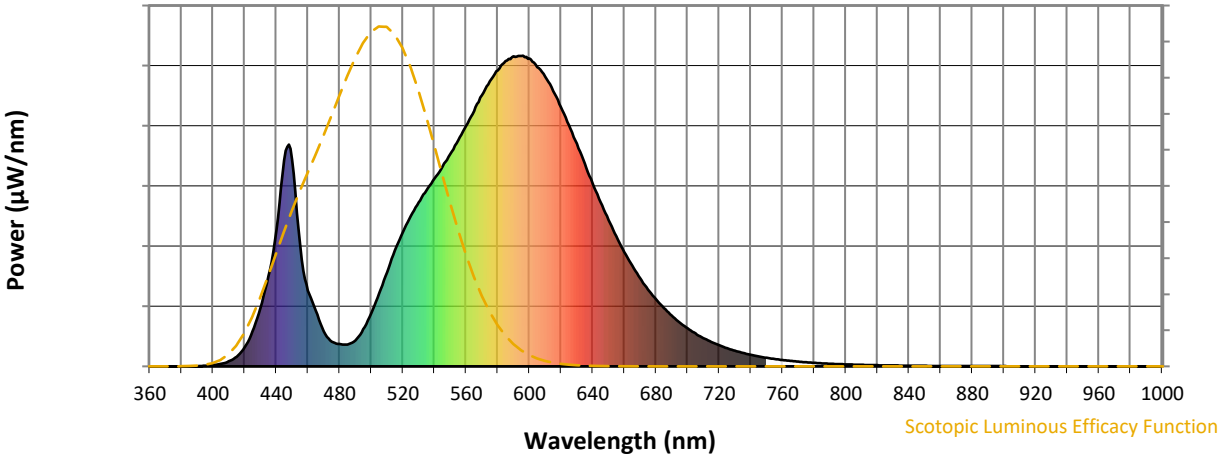


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	84	NR	620	834	NR	750	28	NR	880	1	NR
365	0	NR	495	119	NR	625	776	NR	755	24	NR	885	1	NR
370	0	NR	500	170	NR	630	717	NR	760	20	NR	890	1	NR
375	0	NR	505	235	NR	635	652	NR	765	18	NR	895	1	NR
380	0	NR	510	303	NR	640	589	NR	770	15	NR	900	1	NR
385	0	NR	515	373	NR	645	529	NR	775	13	NR	905	1	NR
390	0	NR	520	432	NR	650	471	NR	780	11	NR	910	0	NR
395	2	NR	525	484	NR	655	419	NR	785	10	NR	915	0	NR
400	4	NR	530	528	NR	660	368	NR	790	9	NR	920	0	NR
405	8	NR	535	566	NR	665	324	NR	795	7	NR	925	0	NR
410	16	NR	540	605	NR	670	283	NR	800	6	NR	930	0	NR
415	31	NR	545	642	NR	675	247	NR	805	6	NR	935	0	NR
420	61	NR	550	683	NR	680	216	NR	810	5	NR	940	0	NR
425	112	NR	555	727	NR	685	188	NR	815	4	NR	945	0	NR
430	187	NR	560	775	NR	690	163	NR	820	4	NR	950	0	NR
435	290	NR	565	822	NR	695	141	NR	825	3	NR	955	0	NR
440	437	NR	570	872	NR	700	122	NR	830	3	NR	960	0	NR
445	663	NR	575	918	NR	705	106	NR	835	3	NR	965	0	NR
450	664	NR	580	953	NR	710	91	NR	840	2	NR	970	0	NR
455	392	NR	585	983	NR	715	78	NR	845	2	NR	975	0	NR
460	244	NR	590	998	NR	720	68	NR	850	2	NR	980	0	NR
465	180	NR	595	999	NR	725	58	NR	855	1	NR	985	0	NR
470	112	NR	600	991	NR	730	50	NR	860	1	NR	990	0	NR
475	80	NR	605	963	NR	735	43	NR	865	1	NR	995	0	NR
480	72	NR	610	932	NR	740	37	NR	870	1	NR	1000	0	NR
485	70	NR	615	886	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2410-249-1

**Scotopic Flux vs. Wavelength**



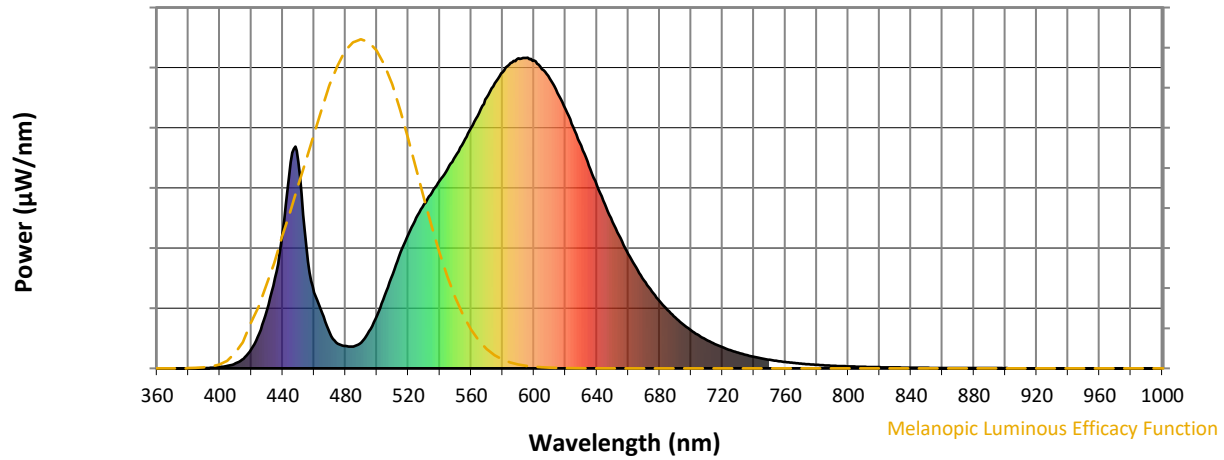
**Scotopic Lumens: NR S/P: 1.21**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	84	NR	620	834	NR	750	28	NR	880	1	NR
365	0	NR	495	119	NR	625	776	NR	755	24	NR	885	1	NR
370	0	NR	500	170	NR	630	717	NR	760	20	NR	890	1	NR
375	0	NR	505	235	NR	635	652	NR	765	18	NR	895	1	NR
380	0	NR	510	303	NR	640	589	NR	770	15	NR	900	1	NR
385	0	NR	515	373	NR	645	529	NR	775	13	NR	905	1	NR
390	0	NR	520	432	NR	650	471	NR	780	11	NR	910	0	NR
395	2	NR	525	484	NR	655	419	NR	785	10	NR	915	0	NR
400	4	NR	530	528	NR	660	368	NR	790	9	NR	920	0	NR
405	8	NR	535	566	NR	665	324	NR	795	7	NR	925	0	NR
410	16	NR	540	605	NR	670	283	NR	800	6	NR	930	0	NR
415	31	NR	545	642	NR	675	247	NR	805	6	NR	935	0	NR
420	61	NR	550	683	NR	680	216	NR	810	5	NR	940	0	NR
425	112	NR	555	727	NR	685	188	NR	815	4	NR	945	0	NR
430	187	NR	560	775	NR	690	163	NR	820	4	NR	950	0	NR
435	290	NR	565	822	NR	695	141	NR	825	3	NR	955	0	NR
440	437	NR	570	872	NR	700	122	NR	830	3	NR	960	0	NR
445	663	NR	575	918	NR	705	106	NR	835	3	NR	965	0	NR
450	664	NR	580	953	NR	710	91	NR	840	2	NR	970	0	NR
455	392	NR	585	983	NR	715	78	NR	845	2	NR	975	0	NR
460	244	NR	590	998	NR	720	68	NR	850	2	NR	980	0	NR
465	180	NR	595	999	NR	725	58	NR	855	1	NR	985	0	NR
470	112	NR	600	991	NR	730	50	NR	860	1	NR	990	0	NR
475	80	NR	605	963	NR	735	43	NR	865	1	NR	995	0	NR
480	72	NR	610	932	NR	740	37	NR	870	1	NR	1000	0	NR
485	70	NR	615	886	NR	745	32	NR	875	1	NR			



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**Melanopic Flux vs. Wavelength**



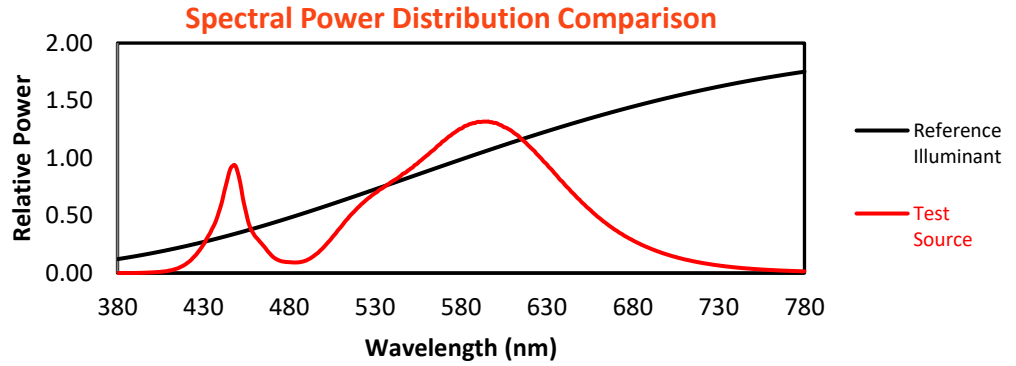
**Melanopic Lumens: NR**

**M/P: 2.18**

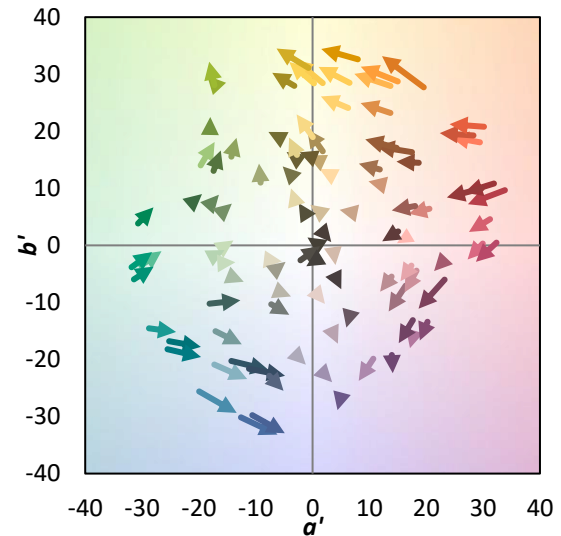
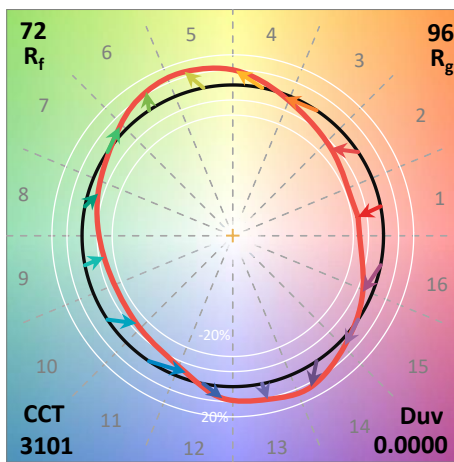
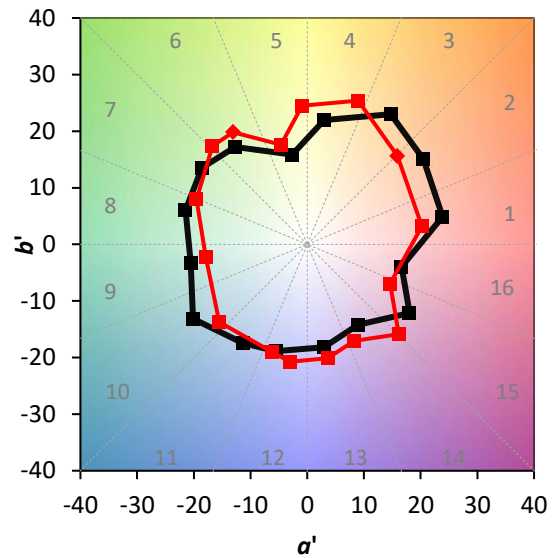
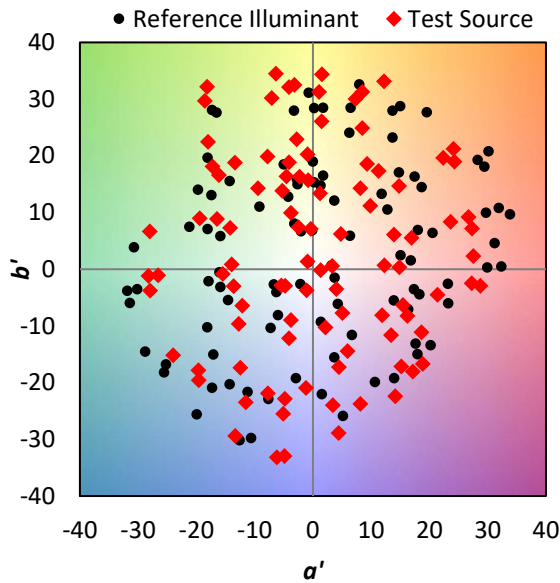
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	84	NR	620	834	NR	750	28	NR	880	1	NR
365	0	NR	495	119	NR	625	776	NR	755	24	NR	885	1	NR
370	0	NR	500	170	NR	630	717	NR	760	20	NR	890	1	NR
375	0	NR	505	235	NR	635	652	NR	765	18	NR	895	1	NR
380	0	NR	510	303	NR	640	589	NR	770	15	NR	900	1	NR
385	0	NR	515	373	NR	645	529	NR	775	13	NR	905	1	NR
390	0	NR	520	432	NR	650	471	NR	780	11	NR	910	0	NR
395	2	NR	525	484	NR	655	419	NR	785	10	NR	915	0	NR
400	4	NR	530	528	NR	660	368	NR	790	9	NR	920	0	NR
405	8	NR	535	566	NR	665	324	NR	795	7	NR	925	0	NR
410	16	NR	540	605	NR	670	283	NR	800	6	NR	930	0	NR
415	31	NR	545	642	NR	675	247	NR	805	6	NR	935	0	NR
420	61	NR	550	683	NR	680	216	NR	810	5	NR	940	0	NR
425	112	NR	555	727	NR	685	188	NR	815	4	NR	945	0	NR
430	187	NR	560	775	NR	690	163	NR	820	4	NR	950	0	NR
435	290	NR	565	822	NR	695	141	NR	825	3	NR	955	0	NR
440	437	NR	570	872	NR	700	122	NR	830	3	NR	960	0	NR
445	663	NR	575	918	NR	705	106	NR	835	3	NR	965	0	NR
450	664	NR	580	953	NR	710	91	NR	840	2	NR	970	0	NR
455	392	NR	585	983	NR	715	78	NR	845	2	NR	975	0	NR
460	244	NR	590	998	NR	720	68	NR	850	2	NR	980	0	NR
465	180	NR	595	999	NR	725	58	NR	855	1	NR	985	0	NR
470	112	NR	600	991	NR	730	50	NR	860	1	NR	990	0	NR
475	80	NR	605	963	NR	735	43	NR	865	1	NR	995	0	NR
480	72	NR	610	932	NR	740	37	NR	870	1	NR	1000	0	NR
485	70	NR	615	886	NR	745	32	NR	875	1	NR			

**Summary**

$R_f = 72.3$   
 $R_g = 96$   
 $CIE R_a = 70.7$   
 $R_9 = -31.2$

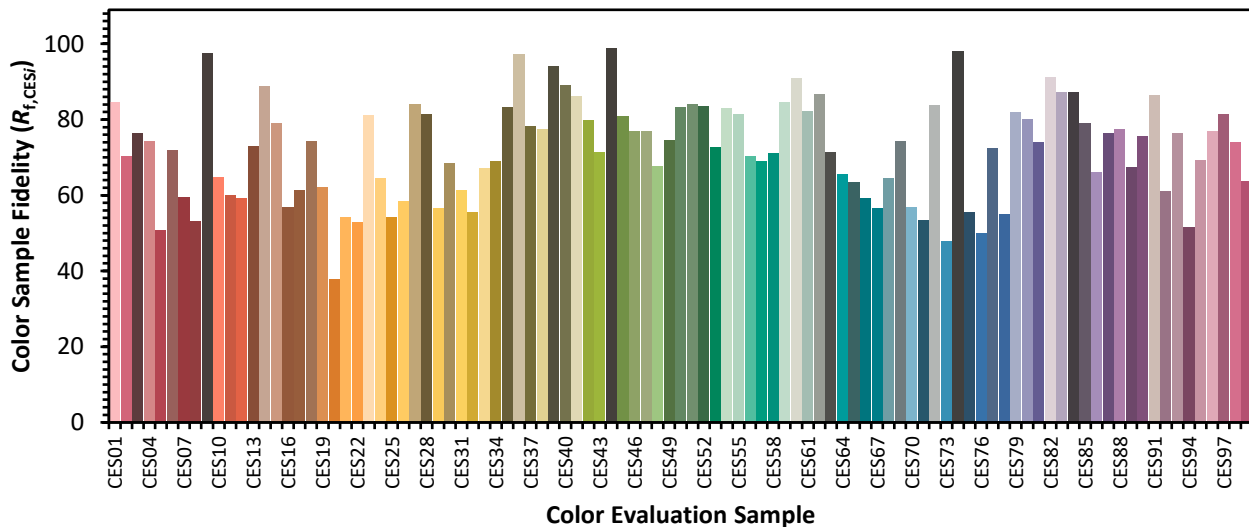


**Color Vector Graphics**

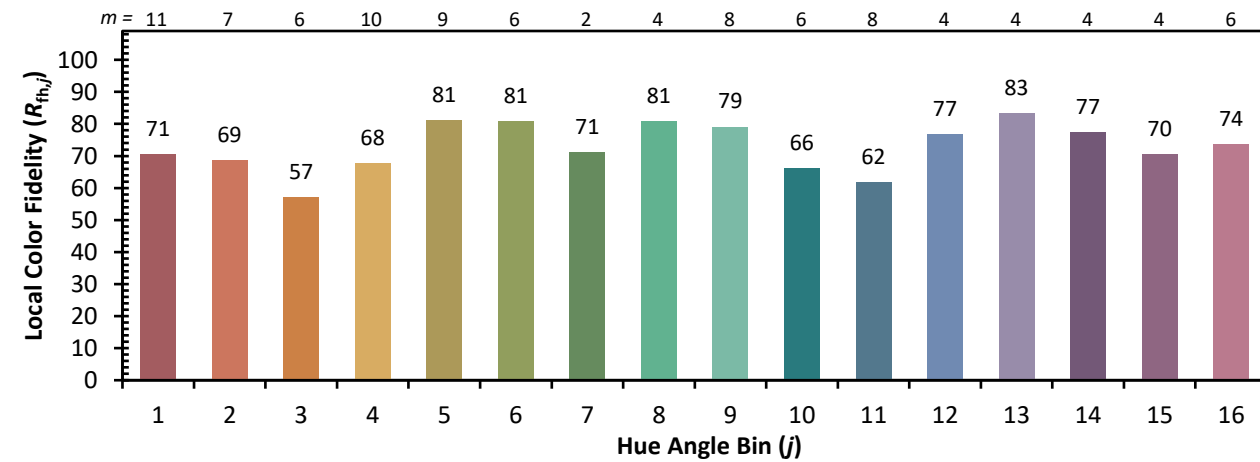
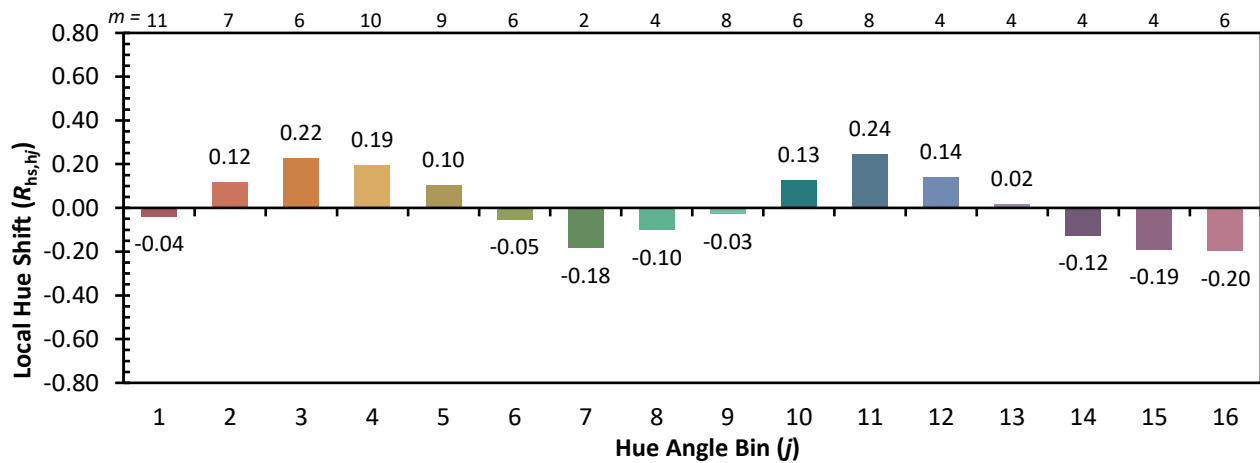
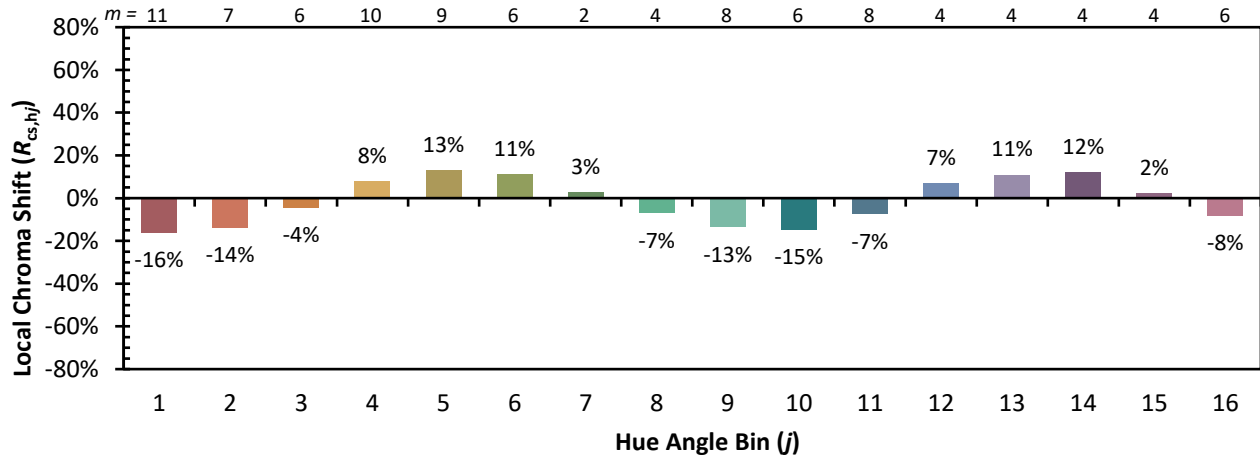


Individual Sample Fidelity Index ( $R_{f,i}$ )

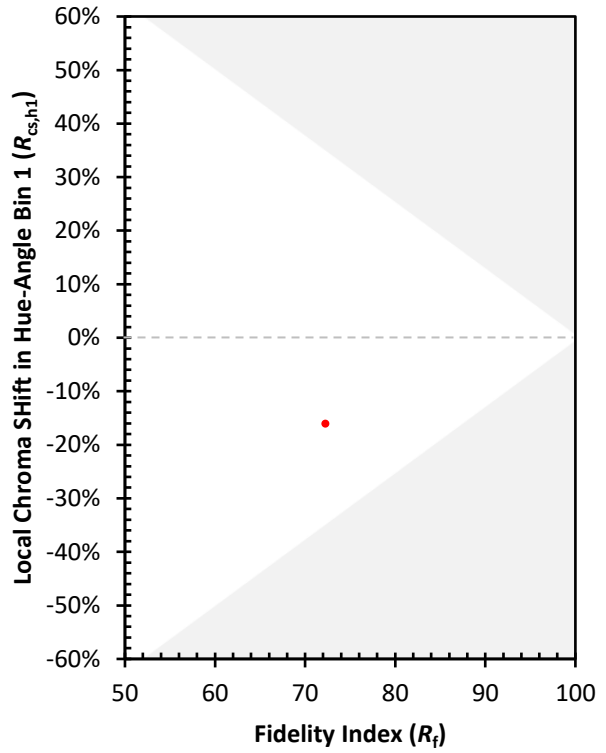
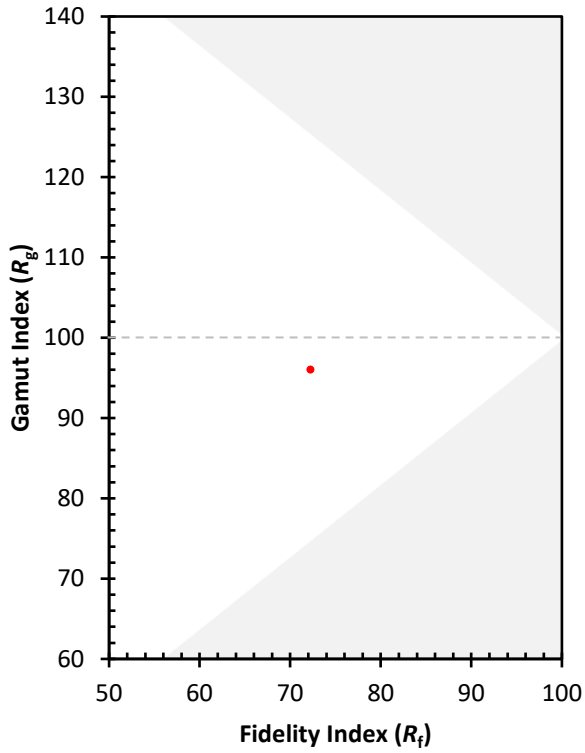
CES01 = 86	CES26 = 58	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 84	CES52 = 84	CES77 = 73
CES03 = 31	CES28 = 81	CES53 = 73	CES78 = 55
CES04 = 71	CES29 = 57	CES54 = 83	CES79 = 82
CES05 = 49	CES30 = 69	CES55 = 82	CES80 = 80
CES06 = 51	CES31 = 61	CES56 = 70	CES81 = 74
CES07 = 41	CES32 = 56	CES57 = 69	CES82 = 91
CES08 = 40	CES33 = 67	CES58 = 71	CES83 = 87
CES09 = 29	CES34 = 69	CES59 = 84	CES84 = 87
CES10 = 76	CES35 = 83	CES60 = 91	CES85 = 79
CES11 = 59	CES36 = 97	CES61 = 82	CES86 = 66
CES12 = 65	CES37 = 78	CES62 = 87	CES87 = 76
CES13 = 43	CES38 = 78	CES63 = 71	CES88 = 77
CES14 = 74	CES39 = 94	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 89	CES65 = 63	CES90 = 76
CES16 = 47	CES41 = 86	CES66 = 59	CES91 = 86
CES17 = 50	CES42 = 80	CES67 = 57	CES92 = 61
CES18 = 56	CES43 = 71	CES68 = 64	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 74	CES94 = 52
CES20 = 66	CES45 = 81	CES70 = 57	CES95 = 69
CES21 = 87	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 79	CES47 = 77	CES72 = 84	CES97 = 82
CES23 = 92	CES48 = 68	CES73 = 48	CES98 = 74
CES24 = 91	CES49 = 75	CES74 = 98	CES99 = 64
CES25 = 73	CES50 = 83	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)