

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: P973039

Luminaire Tested: **WP-6984-70W-5000K**

Issue Date: 03/12/2025



Test Information

Test Method: LM-79-08
Report Number: P973039
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 03/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WP-6984-70W-5000K
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @70W-5000K
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

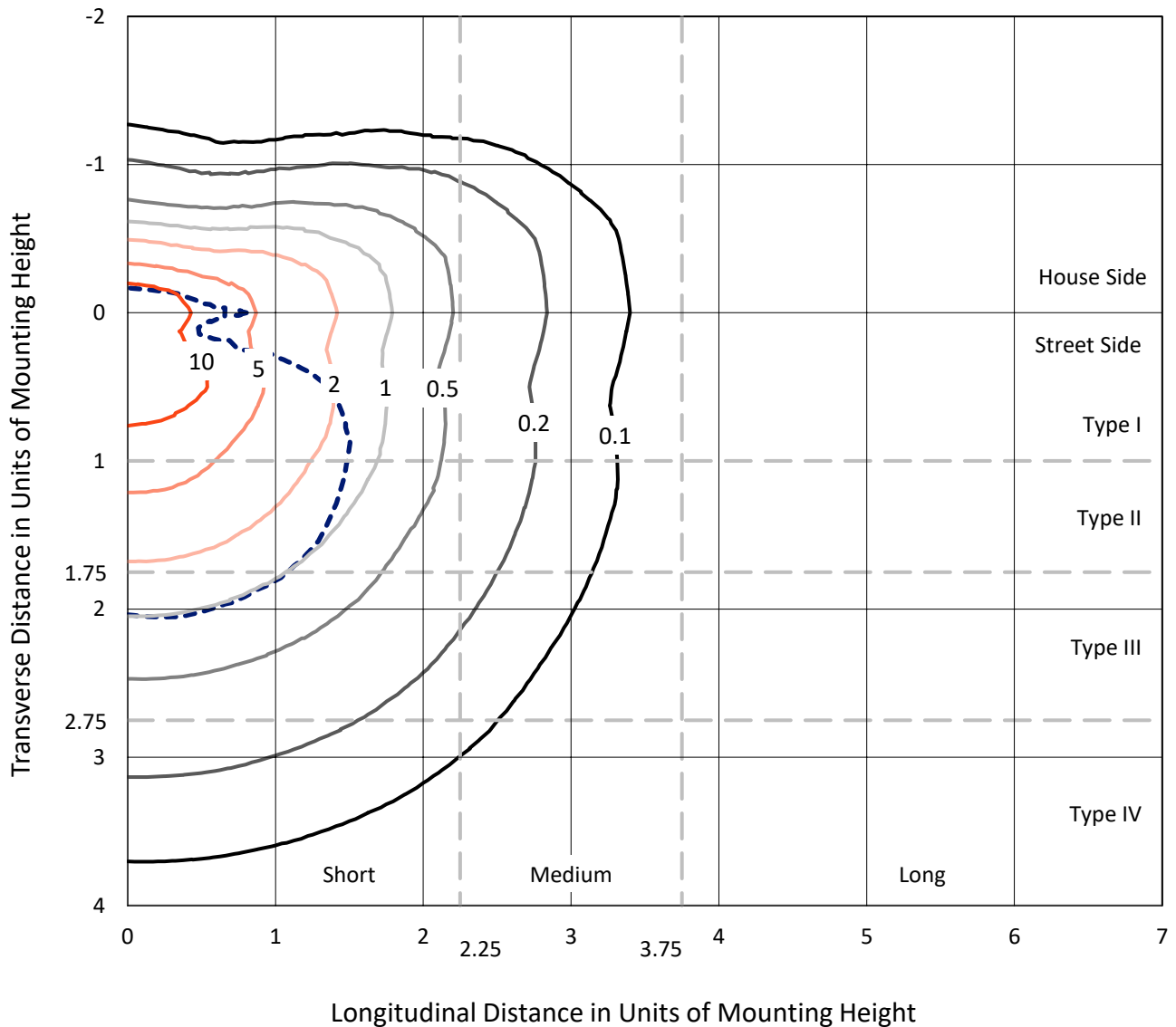
Lumens per Lamp: N/A
Luminaire Lumens: 9963.3 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G2

Input Watts (W): 69
Input Voltage (V): 120
Input Current (A_{in}): 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

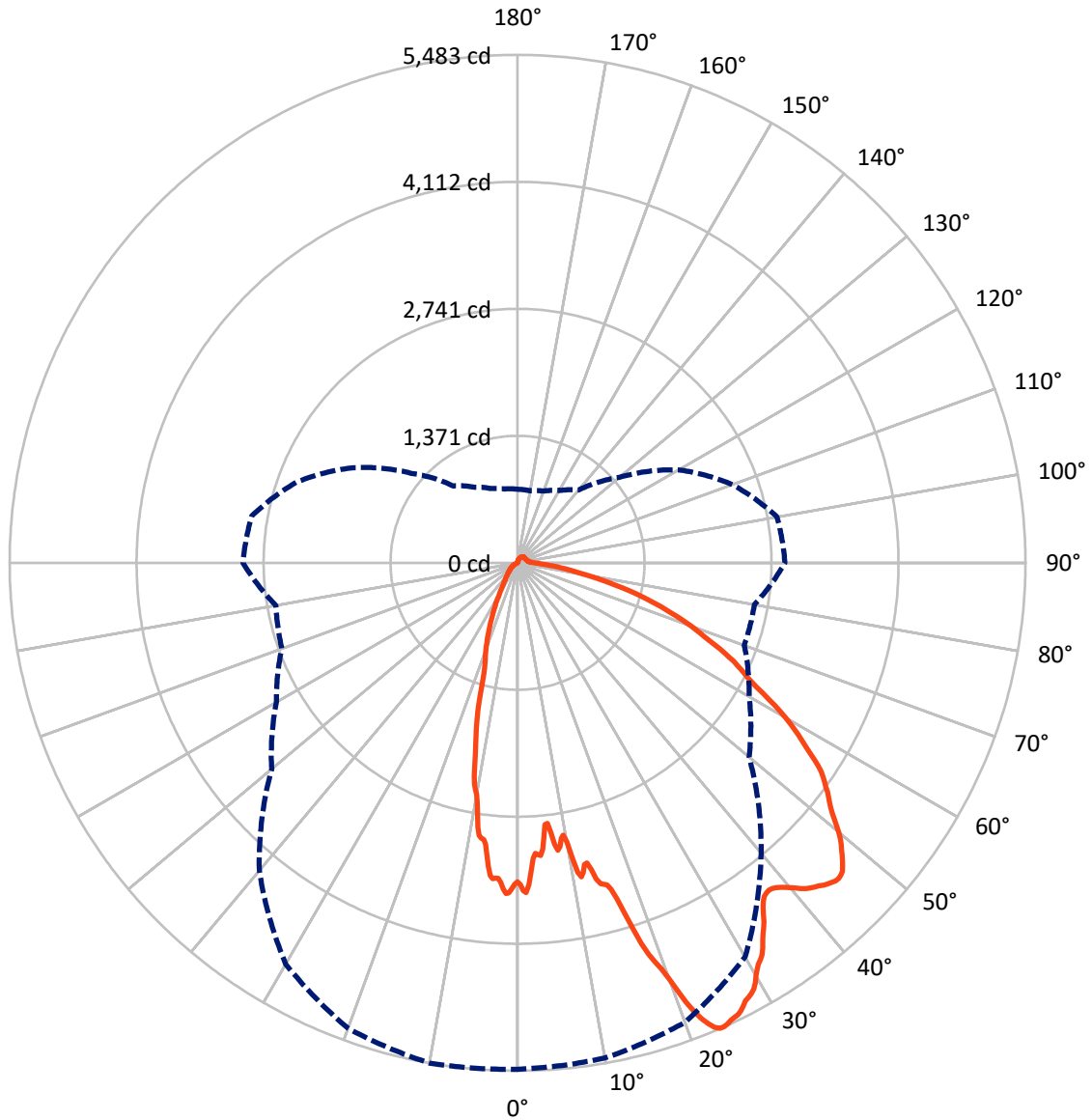
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 19 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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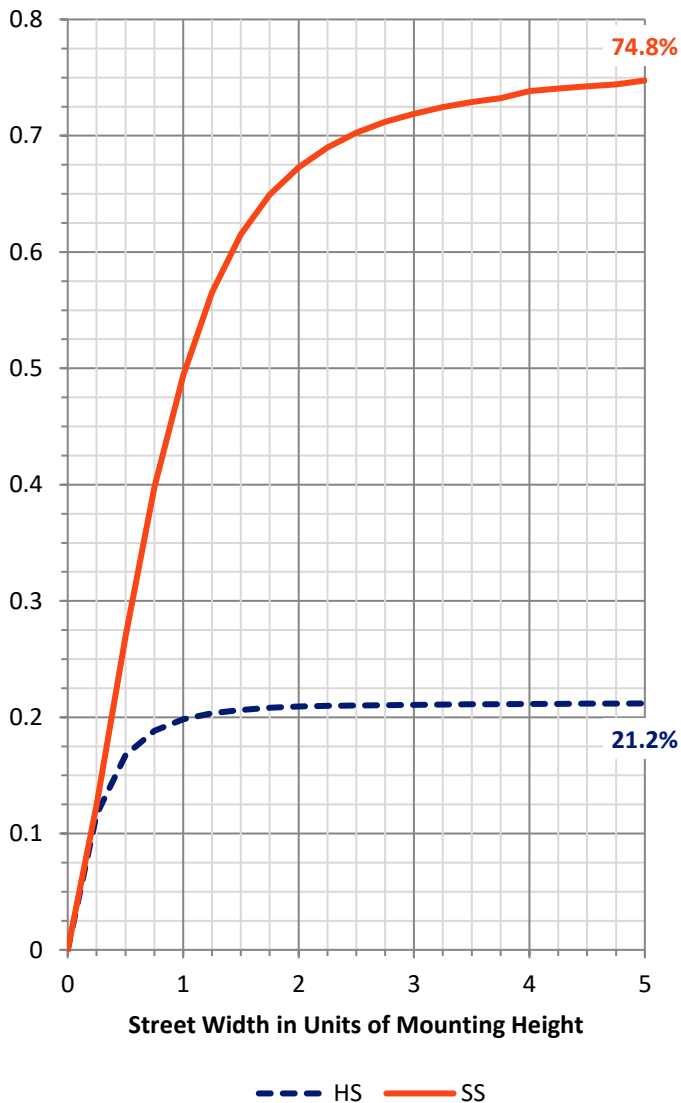
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2135.4 | 50.6 | 2186.0 |
| | % Fixture | 21.4 | 0.5 | 21.9 |
| Street Side | Lumens | 7528.9 | 248.3 | 7777.3 |
| | % Fixture | 75.6 | 2.5 | 78.1 |
| Total | Lumens | 9664.3 | 299.0 | 9963.3 |
| | % Fixture | 97.0 | 3.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 305.6 | 3.1 |
| 10°-20° | 807.1 | 8.1 |
| 20°-30° | 1265.9 | 12.7 |
| 30°-40° | 1528.4 | 15.3 |
| 40°-50° | 1740.9 | 17.5 |
| 50°-60° | 1729.2 | 17.4 |
| 60°-70° | 1323.7 | 13.3 |
| 70°-80° | 737.7 | 7.4 |
| 80°-90° | 225.9 | 2.3 |
| 90°-100° | 67.2 | 0.7 |
| 100°-110° | 54.4 | 0.5 |
| 110°-120° | 50.0 | 0.5 |
| 120°-130° | 45.1 | 0.5 |
| 130°-140° | 38.9 | 0.4 |
| 140°-150° | 27.0 | 0.3 |
| 150°-160° | 12.9 | 0.1 |
| 160°-170° | 3.1 | 0.0 |
| 170°-180° | 0.4 | 0.0 |
| 0°-90° | 9664.3 | 97.0 |
| 0°-180° | 9963.3 | 100.0 |

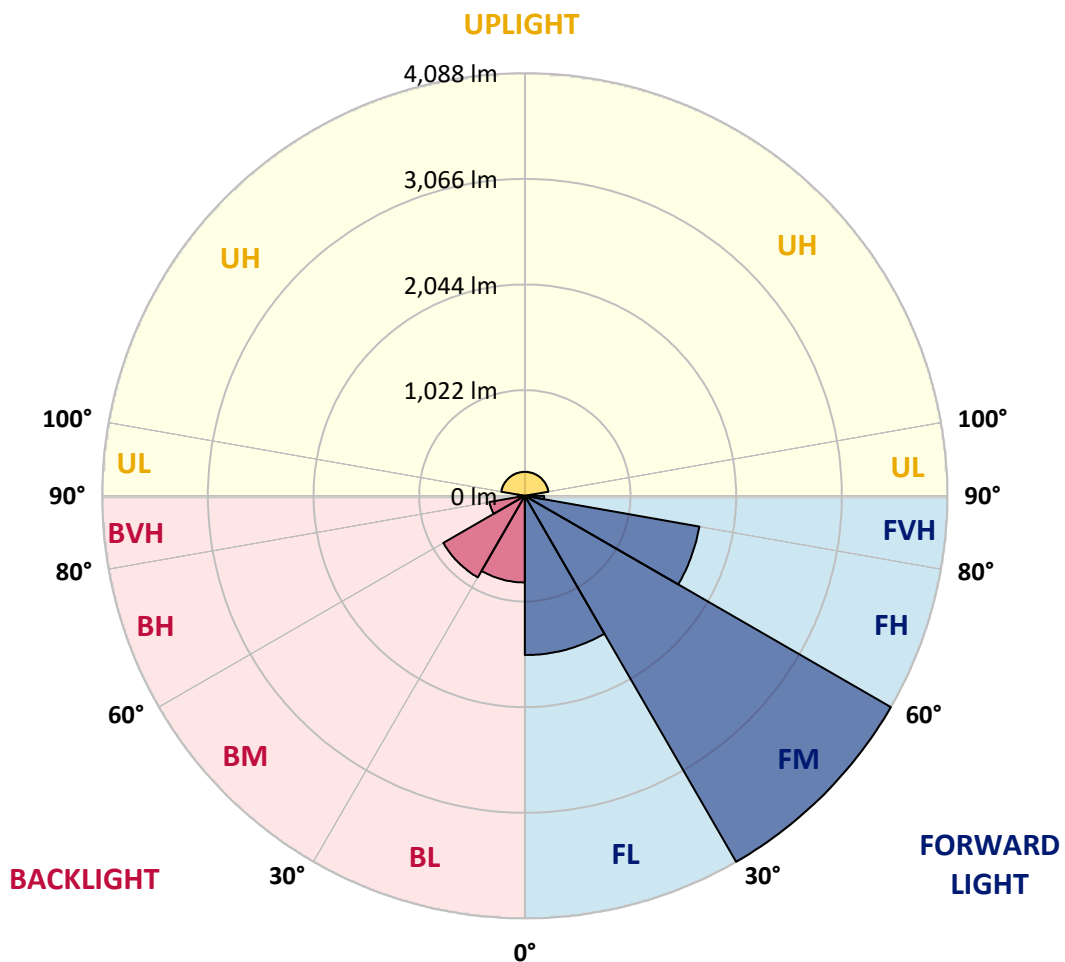


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 CATALOG NUMBER: WP-6984-70W-5000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1540.5 | 15.5 | | | |
| FM (30°-60°) | 4087.7 | 41.0 | | | |
| FH (60°-80°) | 1714.2 | 17.2 | | | G1/1800 |
| FVH (80°-90°) | 186.4 | 1.9 | | | G2/225 |
| BL (0°-30°) | 838.1 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 910.8 | 9.1 | B1/1000 | | |
| BH (60°-80°) | 347.1 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 39.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 67.2 | 0.7 | | U3/500 | |
| UH (100°-180°) | 231.8 | 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° | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 |
| 0.5° | 3530.5 | 3529.1 | 3528.9 | 3529.9 | 3528.5 | 3521.2 | 3512.7 | 3502.6 | 3491.1 | 3479.9 | 3469.3 |
| 1° | 3495.7 | 3499.2 | 3512.8 | 3527.0 | 3542.5 | 3546.6 | 3539.9 | 3525.9 | 3498.4 | 3476.3 | 3458.1 |
| 1.5° | 3370.7 | 3380.8 | 3405.0 | 3445.7 | 3489.7 | 3525.1 | 3545.1 | 3537.9 | 3503.3 | 3469.1 | 3442.5 |
| 2° | 3213.5 | 3224.4 | 3257.8 | 3314.4 | 3385.5 | 3457.7 | 3524.9 | 3542.9 | 3514.3 | 3462.1 | 3428.1 |
| 2.5° | 3121.6 | 3127.9 | 3143.0 | 3184.5 | 3260.7 | 3365.4 | 3473.6 | 3532.3 | 3520.6 | 3459.5 | 3418.1 |
| 3° | 3119.2 | 3113.7 | 3111.2 | 3118.3 | 3160.3 | 3262.5 | 3401.8 | 3509.0 | 3516.7 | 3450.5 | 3406.2 |
| 3.5° | 3142.7 | 3136.5 | 3129.2 | 3112.3 | 3114.5 | 3172.0 | 3319.9 | 3470.2 | 3508.7 | 3439.8 | 3392.5 |
| 4° | 3110.0 | 3119.8 | 3131.2 | 3127.6 | 3105.8 | 3118.9 | 3238.5 | 3422.3 | 3499.5 | 3434.9 | 3386.2 |
| 4.5° | 2985.3 | 3012.4 | 3063.7 | 3119.8 | 3114.4 | 3097.0 | 3167.0 | 3369.5 | 3488.8 | 3421.4 | 3378.4 |
| 5° | 2841.2 | 2862.4 | 2927.1 | 3038.7 | 3112.9 | 3091.7 | 3112.0 | 3307.2 | 3470.2 | 3408.6 | 3375.9 |
| 5.5° | 2791.2 | 2790.5 | 2807.1 | 2909.7 | 3055.3 | 3100.0 | 3080.8 | 3247.6 | 3451.6 | 3395.4 | 3368.9 |
| 6° | 2862.9 | 2835.7 | 2790.8 | 2803.3 | 2950.9 | 3091.0 | 3059.8 | 3187.4 | 3431.2 | 3381.9 | 3367.8 |
| 6.5° | 2999.2 | 2961.7 | 2870.2 | 2784.5 | 2836.9 | 3045.5 | 3055.6 | 3131.7 | 3411.1 | 3369.4 | 3362.4 |
| 7° | 3097.4 | 3080.4 | 2997.3 | 2847.9 | 2772.8 | 2966.1 | 3057.6 | 3085.0 | 3380.5 | 3356.2 | 3358.2 |
| 7.5° | 3084.7 | 3093.8 | 3090.6 | 2959.3 | 2776.2 | 2862.5 | 3057.1 | 3048.8 | 3345.5 | 3337.5 | 3349.0 |
| 8° | 2991.9 | 3008.1 | 3066.8 | 3059.2 | 2836.4 | 2778.4 | 3036.0 | 3019.5 | 3316.0 | 3320.9 | 3336.7 |
| 8.5° | 2939.8 | 2931.7 | 2974.2 | 3073.7 | 2943.5 | 2731.7 | 2991.9 | 2999.3 | 3280.9 | 3299.8 | 3328.3 |
| 9° | 2999.4 | 2950.6 | 2908.8 | 3006.4 | 3029.7 | 2730.4 | 2923.9 | 2983.2 | 3241.2 | 3286.9 | 3317.7 |
| 9.5° | 3166.7 | 3102.5 | 2947.6 | 2920.8 | 3055.6 | 2784.1 | 2841.8 | 2975.6 | 3200.8 | 3277.6 | 3304.4 |
| 10° | 3347.3 | 3285.1 | 3089.1 | 2892.1 | 3006.0 | 2871.4 | 2760.0 | 2971.5 | 3164.1 | 3264.5 | 3296.0 |
| 10.5° | 3428.5 | 3401.5 | 3274.3 | 2962.8 | 2920.4 | 2949.0 | 2702.5 | 2968.2 | 3125.9 | 3255.8 | 3285.1 |
| 11° | 3390.7 | 3395.2 | 3384.7 | 3120.6 | 2862.7 | 2995.1 | 2672.4 | 2960.6 | 3091.4 | 3251.2 | 3276.0 |
| 11.5° | 3305.7 | 3316.1 | 3374.2 | 3278.5 | 2867.3 | 2986.8 | 2680.4 | 2946.0 | 3060.6 | 3243.2 | 3269.4 |
| 12° | 3288.3 | 3262.5 | 3294.4 | 3363.2 | 2959.3 | 2936.0 | 2719.2 | 2919.8 | 3032.1 | 3236.1 | 3261.0 |
| 12.5° | 3372.1 | 3313.7 | 3231.5 | 3345.1 | 3100.4 | 2865.1 | 2774.1 | 2875.6 | 2997.2 | 3229.9 | 3252.7 |
| 13° | 3488.7 | 3428.5 | 3267.2 | 3262.0 | 3234.8 | 2815.3 | 2845.0 | 2831.5 | 2965.3 | 3218.8 | 3240.9 |
| 13.5° | 3547.6 | 3506.8 | 3369.7 | 3192.5 | 3307.4 | 2810.8 | 2904.7 | 2774.9 | 2934.8 | 3203.5 | 3226.6 |
| 14° | 3556.2 | 3521.8 | 3453.4 | 3211.8 | 3292.9 | 2864.2 | 2939.2 | 2721.4 | 2904.7 | 3185.6 | 3209.7 |
| 14.5° | 3563.8 | 3508.3 | 3474.7 | 3301.8 | 3222.0 | 2977.5 | 2938.3 | 2670.4 | 2877.5 | 3169.2 | 3193.4 |
| 15° | 3612.2 | 3528.1 | 3453.3 | 3380.6 | 3143.5 | 3102.0 | 2908.7 | 2626.6 | 2851.4 | 3157.0 | 3174.1 |
| 15.5° | 3742.2 | 3626.2 | 3447.7 | 3411.2 | 3122.4 | 3207.2 | 2860.5 | 2595.5 | 2827.4 | 3140.1 | 3157.8 |
| 16° | 3918.7 | 3783.8 | 3510.4 | 3388.8 | 3178.4 | 3257.7 | 2801.6 | 2578.6 | 2807.3 | 3124.8 | 3140.0 |
| 16.5° | 4110.2 | 3975.2 | 3640.2 | 3359.3 | 3266.2 | 3248.7 | 2755.0 | 2579.9 | 2792.1 | 3108.7 | 3120.6 |
| 17° | 4275.2 | 4150.5 | 3807.6 | 3377.7 | 3326.3 | 3193.2 | 2736.7 | 2596.3 | 2779.3 | 3092.9 | 3103.6 |
| 17.5° | 4401.6 | 4274.8 | 3974.7 | 3458.0 | 3335.9 | 3121.4 | 2753.6 | 2620.2 | 2768.1 | 3078.3 | 3086.6 |
| 18° | 4499.3 | 4383.2 | 4115.6 | 3593.1 | 3304.6 | 3065.8 | 2804.1 | 2655.8 | 2757.1 | 3061.3 | 3069.2 |
| 18.5° | 4598.7 | 4476.6 | 4220.5 | 3745.6 | 3277.7 | 3063.1 | 2891.6 | 2698.2 | 2744.7 | 3045.8 | 3052.7 |
| 19° | 4725.1 | 4577.9 | 4308.4 | 3882.2 | 3283.3 | 3110.5 | 2978.5 | 2732.7 | 2737.4 | 3028.6 | 3036.6 |
| 19.5° | 4885.0 | 4714.7 | 4389.4 | 3996.2 | 3344.9 | 3177.2 | 3061.4 | 2764.3 | 2724.6 | 3010.6 | 3020.3 |
| 20° | 5050.4 | 4881.8 | 4487.6 | 4085.7 | 3445.1 | 3218.4 | 3112.2 | 2778.0 | 2714.5 | 2993.6 | 3000.2 |
| 20.5° | 5187.8 | 5046.9 | 4631.6 | 4176.0 | 3566.7 | 3221.5 | 3125.0 | 2778.2 | 2701.9 | 2975.2 | 2980.0 |
| 21° | 5292.9 | 5170.2 | 4786.4 | 4259.3 | 3689.4 | 3193.7 | 3095.5 | 2764.9 | 2685.9 | 2960.1 | 2958.7 |
| 21.5° | 5372.5 | 5276.4 | 4944.6 | 4348.8 | 3790.7 | 3157.4 | 3041.4 | 2740.2 | 2669.0 | 2944.0 | 2937.6 |
| 22° | 5431.9 | 5359.6 | 5082.0 | 4468.8 | 3874.2 | 3132.1 | 2975.8 | 2703.0 | 2651.4 | 2928.5 | 2915.0 |



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CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 5461.3 | 5400.0 | 5182.9 | 4612.7 | 3949.6 | 3142.8 | 2917.3 | 2663.9 | 2634.4 | 2913.2 | 2892.6 |
| 23° | 5472.1 | 5420.7 | 5248.0 | 4766.0 | 4019.2 | 3188.9 | 2882.3 | 2631.2 | 2615.3 | 2899.6 | 2869.4 |
| 23.5° | 5466.0 | 5427.2 | 5279.1 | 4910.8 | 4090.1 | 3262.2 | 2886.3 | 2604.2 | 2595.6 | 2885.6 | 2844.9 |
| 24° | 5447.4 | 5424.5 | 5309.1 | 5020.8 | 4161.0 | 3349.6 | 2916.5 | 2590.8 | 2574.0 | 2872.5 | 2822.6 |
| 24.5° | 5429.1 | 5407.5 | 5329.4 | 5088.8 | 4247.4 | 3439.9 | 2960.6 | 2591.0 | 2550.2 | 2855.7 | 2800.2 |
| 25° | 5401.4 | 5374.6 | 5330.3 | 5116.3 | 4361.6 | 3524.2 | 2995.2 | 2603.8 | 2529.5 | 2843.2 | 2778.2 |
| 25.5° | 5372.1 | 5339.3 | 5305.3 | 5131.2 | 4493.5 | 3594.6 | 3010.6 | 2634.6 | 2504.9 | 2828.7 | 2757.8 |
| 26° | 5338.6 | 5311.0 | 5257.7 | 5161.5 | 4622.2 | 3652.9 | 3000.0 | 2673.6 | 2485.8 | 2814.9 | 2739.2 |
| 26.5° | 5316.1 | 5289.8 | 5214.1 | 5179.7 | 4732.3 | 3704.1 | 2974.0 | 2723.5 | 2468.0 | 2803.9 | 2719.6 |
| 27° | 5298.9 | 5265.2 | 5190.7 | 5174.1 | 4802.3 | 3754.0 | 2943.5 | 2771.8 | 2454.6 | 2793.6 | 2700.7 |
| 27.5° | 5260.3 | 5236.3 | 5168.4 | 5132.4 | 4819.2 | 3801.8 | 2923.5 | 2806.8 | 2442.8 | 2784.8 | 2683.7 |
| 28° | 5214.1 | 5198.8 | 5152.1 | 5077.4 | 4814.8 | 3849.0 | 2920.6 | 2829.1 | 2432.1 | 2775.9 | 2666.4 |
| 28.5° | 5160.8 | 5156.4 | 5126.1 | 5018.1 | 4815.4 | 3910.1 | 2936.6 | 2836.8 | 2425.1 | 2767.8 | 2652.1 |
| 29° | 5110.6 | 5107.5 | 5092.0 | 4987.5 | 4844.7 | 3986.9 | 2971.4 | 2830.1 | 2418.8 | 2758.7 | 2638.6 |
| 29.5° | 5058.8 | 5061.1 | 5053.3 | 4969.1 | 4872.7 | 4079.3 | 3019.5 | 2811.2 | 2415.3 | 2751.2 | 2626.8 |
| 30° | 5018.3 | 5018.0 | 5003.8 | 4948.7 | 4865.9 | 4170.0 | 3070.4 | 2786.4 | 2416.4 | 2743.9 | 2614.1 |
| 30.5° | 4975.6 | 4987.9 | 4963.4 | 4923.1 | 4820.9 | 4251.6 | 3122.5 | 2756.2 | 2418.7 | 2738.1 | 2602.7 |
| 31° | 4929.4 | 4941.7 | 4933.9 | 4884.6 | 4746.8 | 4310.3 | 3174.6 | 2727.2 | 2423.6 | 2732.9 | 2591.3 |
| 31.5° | 4879.0 | 4885.9 | 4910.8 | 4846.0 | 4685.7 | 4334.8 | 3216.8 | 2706.1 | 2428.1 | 2727.1 | 2581.0 |
| 32° | 4824.5 | 4834.1 | 4869.2 | 4799.9 | 4650.4 | 4338.3 | 3249.2 | 2695.3 | 2434.3 | 2722.0 | 2571.1 |
| 32.5° | 4781.7 | 4798.7 | 4804.1 | 4754.6 | 4635.8 | 4335.1 | 3278.8 | 2695.6 | 2440.5 | 2717.0 | 2562.9 |
| 33° | 4733.1 | 4772.9 | 4746.9 | 4724.9 | 4616.5 | 4337.9 | 3303.1 | 2706.0 | 2449.7 | 2712.3 | 2553.7 |
| 33.5° | 4664.5 | 4723.7 | 4710.0 | 4701.9 | 4586.6 | 4351.3 | 3330.4 | 2722.6 | 2457.7 | 2708.5 | 2542.7 |
| 34° | 4582.3 | 4640.6 | 4694.5 | 4668.8 | 4552.8 | 4367.4 | 3364.1 | 2741.1 | 2465.2 | 2705.5 | 2530.0 |
| 34.5° | 4515.8 | 4559.6 | 4663.1 | 4612.2 | 4521.8 | 4368.6 | 3396.3 | 2754.3 | 2469.5 | 2703.3 | 2518.6 |
| 35° | 4471.2 | 4494.4 | 4597.7 | 4545.2 | 4485.8 | 4346.6 | 3430.5 | 2758.2 | 2472.5 | 2699.6 | 2508.8 |
| 35.5° | 4444.2 | 4449.3 | 4507.5 | 4486.0 | 4448.3 | 4305.1 | 3472.4 | 2757.7 | 2473.9 | 2696.6 | 2499.7 |
| 36° | 4430.4 | 4423.7 | 4434.6 | 4462.3 | 4405.0 | 4260.1 | 3514.9 | 2747.8 | 2470.4 | 2692.6 | 2489.0 |
| 36.5° | 4433.7 | 4423.6 | 4386.2 | 4448.5 | 4369.4 | 4226.3 | 3559.1 | 2734.6 | 2466.1 | 2689.9 | 2479.5 |
| 37° | 4450.3 | 4435.0 | 4355.4 | 4400.4 | 4347.9 | 4200.5 | 3598.4 | 2723.3 | 2460.3 | 2684.6 | 2469.9 |
| 37.5° | 4469.8 | 4455.2 | 4339.2 | 4325.1 | 4321.5 | 4179.4 | 3630.4 | 2714.2 | 2452.8 | 2679.3 | 2460.8 |
| 38° | 4499.4 | 4484.3 | 4334.0 | 4243.2 | 4288.8 | 4157.0 | 3654.8 | 2707.5 | 2444.4 | 2671.0 | 2448.6 |
| 38.5° | 4529.4 | 4517.1 | 4339.3 | 4188.6 | 4237.9 | 4130.3 | 3669.9 | 2706.2 | 2434.4 | 2662.0 | 2437.8 |
| 39° | 4564.9 | 4555.3 | 4348.8 | 4151.9 | 4190.2 | 4097.2 | 3673.9 | 2708.9 | 2424.8 | 2650.6 | 2425.2 |
| 39.5° | 4599.6 | 4592.5 | 4371.4 | 4122.6 | 4159.4 | 4068.2 | 3674.3 | 2714.2 | 2413.3 | 2641.3 | 2411.8 |
| 40° | 4634.2 | 4624.5 | 4399.4 | 4098.6 | 4146.3 | 4043.1 | 3674.3 | 2723.7 | 2403.7 | 2632.1 | 2399.8 |
| 40.5° | 4667.2 | 4653.9 | 4426.1 | 4079.9 | 4126.9 | 4019.7 | 3674.5 | 2731.1 | 2396.5 | 2625.3 | 2389.5 |
| 41° | 4695.5 | 4683.7 | 4450.9 | 4071.6 | 4088.2 | 3994.7 | 3672.4 | 2737.6 | 2389.9 | 2619.6 | 2380.3 |
| 41.5° | 4723.2 | 4707.6 | 4474.3 | 4066.6 | 4037.9 | 3970.2 | 3667.4 | 2744.8 | 2386.8 | 2614.1 | 2371.6 |
| 42° | 4738.8 | 4735.7 | 4498.1 | 4069.7 | 3991.6 | 3948.1 | 3653.0 | 2752.6 | 2383.8 | 2610.6 | 2364.6 |
| 42.5° | 4765.6 | 4754.3 | 4519.7 | 4077.5 | 3957.3 | 3927.2 | 3636.5 | 2758.1 | 2383.0 | 2604.9 | 2356.9 |
| 43° | 4794.7 | 4780.5 | 4548.9 | 4086.9 | 3931.0 | 3905.3 | 3613.3 | 2764.9 | 2383.2 | 2601.4 | 2350.1 |
| 43.5° | 4816.9 | 4800.8 | 4572.4 | 4095.5 | 3908.6 | 3881.1 | 3587.0 | 2769.3 | 2385.1 | 2599.5 | 2346.1 |
| 44° | 4832.7 | 4816.6 | 4593.5 | 4099.7 | 3888.1 | 3850.9 | 3563.5 | 2770.4 | 2388.3 | 2596.8 | 2341.6 |
| 44.5° | 4829.0 | 4830.7 | 4606.1 | 4109.8 | 3873.5 | 3822.0 | 3542.5 | 2772.0 | 2393.5 | 2593.6 | 2339.9 |



REPORT NUMBER: P973039

CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 45° | 4822.3 | 4823.3 | 4616.4 | 4115.7 | 3861.8 | 3799.4 | 3527.3 | 2771.1 | 2399.4 | 2590.2 | 2338.2 |
| 45.5° | 4793.3 | 4820.1 | 4617.9 | 4118.2 | 3849.5 | 3776.8 | 3511.4 | 2772.9 | 2401.2 | 2587.5 | 2332.0 |
| 46° | 4763.6 | 4794.3 | 4611.8 | 4119.2 | 3841.1 | 3758.4 | 3497.0 | 2777.1 | 2401.7 | 2581.3 | 2327.1 |
| 46.5° | 4711.2 | 4761.3 | 4604.2 | 4115.8 | 3834.6 | 3738.4 | 3484.2 | 2781.5 | 2400.3 | 2574.6 | 2320.1 |
| 47° | 4666.6 | 4710.8 | 4580.4 | 4111.3 | 3829.1 | 3711.7 | 3472.0 | 2785.2 | 2393.2 | 2568.0 | 2312.4 |
| 47.5° | 4616.5 | 4663.3 | 4553.8 | 4098.9 | 3823.8 | 3678.9 | 3458.4 | 2790.1 | 2385.1 | 2559.7 | 2305.7 |
| 48° | 4583.0 | 4632.5 | 4510.3 | 4079.6 | 3813.5 | 3648.4 | 3442.9 | 2791.7 | 2374.0 | 2550.6 | 2299.0 |
| 48.5° | 4542.1 | 4602.9 | 4473.2 | 4061.1 | 3798.1 | 3618.7 | 3425.3 | 2790.3 | 2361.7 | 2542.2 | 2289.4 |
| 49° | 4488.2 | 4562.9 | 4427.2 | 4041.9 | 3781.6 | 3589.2 | 3405.2 | 2792.1 | 2349.8 | 2533.2 | 2278.1 |
| 49.5° | 4426.0 | 4513.1 | 4395.2 | 4018.3 | 3766.3 | 3559.2 | 3385.7 | 2790.1 | 2333.1 | 2522.6 | 2269.1 |
| 50° | 4364.3 | 4444.7 | 4361.0 | 3991.3 | 3745.3 | 3532.9 | 3367.6 | 2790.6 | 2316.4 | 2510.6 | 2257.7 |
| 50.5° | 4315.6 | 4384.1 | 4320.0 | 3959.3 | 3725.6 | 3505.5 | 3351.3 | 2790.4 | 2298.3 | 2499.4 | 2246.9 |
| 51° | 4274.3 | 4321.6 | 4264.1 | 3927.2 | 3701.8 | 3474.1 | 3330.9 | 2784.6 | 2278.1 | 2485.8 | 2234.9 |
| 51.5° | 4238.7 | 4273.7 | 4213.6 | 3890.3 | 3673.6 | 3442.0 | 3309.2 | 2778.6 | 2256.0 | 2471.0 | 2222.2 |
| 52° | 4202.0 | 4242.2 | 4161.0 | 3855.7 | 3641.7 | 3410.6 | 3285.9 | 2771.1 | 2234.5 | 2454.6 | 2205.8 |
| 52.5° | 4169.1 | 4213.4 | 4107.4 | 3820.3 | 3607.7 | 3377.9 | 3262.6 | 2760.4 | 2211.5 | 2441.2 | 2188.1 |
| 53° | 4123.8 | 4178.7 | 4067.8 | 3789.9 | 3573.2 | 3340.9 | 3237.0 | 2747.2 | 2186.7 | 2422.5 | 2170.2 |
| 53.5° | 4078.3 | 4127.0 | 4038.1 | 3760.4 | 3536.4 | 3303.1 | 3208.1 | 2734.1 | 2162.9 | 2400.9 | 2152.2 |
| 54° | 4037.3 | 4079.0 | 4017.2 | 3719.7 | 3503.1 | 3267.4 | 3178.6 | 2717.6 | 2137.6 | 2379.3 | 2136.2 |
| 54.5° | 3991.1 | 4027.8 | 3981.8 | 3684.3 | 3471.1 | 3230.0 | 3143.7 | 2699.8 | 2112.4 | 2349.5 | 2117.0 |
| 55° | 3932.1 | 3971.2 | 3926.1 | 3652.5 | 3436.1 | 3195.1 | 3106.3 | 2677.6 | 2082.9 | 2319.3 | 2092.5 |
| 55.5° | 3860.4 | 3902.2 | 3867.1 | 3621.6 | 3402.1 | 3158.0 | 3068.7 | 2645.8 | 2054.1 | 2290.4 | 2068.3 |
| 56° | 3785.9 | 3830.6 | 3815.0 | 3591.6 | 3362.3 | 3121.7 | 3030.9 | 2610.0 | 2026.7 | 2260.1 | 2044.6 |
| 56.5° | 3702.5 | 3750.1 | 3757.0 | 3558.2 | 3327.4 | 3085.2 | 2991.7 | 2571.6 | 1997.9 | 2227.9 | 2021.5 |
| 57° | 3635.7 | 3671.4 | 3686.6 | 3514.9 | 3295.6 | 3052.3 | 2947.0 | 2530.8 | 1967.6 | 2195.2 | 2001.2 |
| 57.5° | 3574.4 | 3609.1 | 3616.4 | 3464.4 | 3266.9 | 3018.0 | 2901.0 | 2493.8 | 1938.0 | 2160.3 | 1979.8 |
| 58° | 3508.0 | 3556.8 | 3544.2 | 3407.9 | 3236.8 | 2986.1 | 2853.0 | 2457.6 | 1908.3 | 2126.4 | 1958.0 |
| 58.5° | 3444.0 | 3501.4 | 3476.6 | 3348.0 | 3203.1 | 2953.3 | 2804.3 | 2419.9 | 1876.4 | 2091.5 | 1939.2 |
| 59° | 3371.2 | 3440.0 | 3412.4 | 3289.0 | 3156.2 | 2917.7 | 2757.7 | 2376.5 | 1845.8 | 2058.8 | 1920.7 |
| 59.5° | 3288.6 | 3367.0 | 3351.8 | 3229.3 | 3102.6 | 2880.7 | 2712.7 | 2334.1 | 1816.7 | 2022.7 | 1894.8 |
| 60° | 3192.4 | 3282.9 | 3290.9 | 3176.0 | 3048.0 | 2841.3 | 2665.2 | 2292.0 | 1785.5 | 1984.9 | 1870.3 |
| 60.5° | 3099.5 | 3187.7 | 3220.2 | 3121.7 | 2992.0 | 2795.6 | 2617.4 | 2248.9 | 1754.2 | 1948.3 | 1841.1 |
| 61° | 3007.5 | 3095.3 | 3138.5 | 3068.9 | 2939.4 | 2749.6 | 2568.0 | 2204.3 | 1721.4 | 1911.4 | 1811.7 |
| 61.5° | 2921.6 | 3004.3 | 3055.0 | 3010.9 | 2884.9 | 2704.4 | 2521.8 | 2161.1 | 1690.4 | 1877.7 | 1788.5 |
| 62° | 2848.0 | 2926.0 | 2971.1 | 2951.4 | 2825.6 | 2656.2 | 2473.9 | 2116.5 | 1660.4 | 1844.1 | 1765.4 |
| 62.5° | 2782.8 | 2855.5 | 2888.6 | 2879.7 | 2769.9 | 2598.1 | 2428.7 | 2070.9 | 1630.5 | 1808.2 | 1733.6 |
| 63° | 2736.1 | 2792.5 | 2813.0 | 2809.7 | 2718.2 | 2542.8 | 2384.1 | 2026.8 | 1602.4 | 1771.8 | 1704.6 |
| 63.5° | 2692.2 | 2738.7 | 2744.6 | 2740.6 | 2662.6 | 2487.2 | 2340.5 | 1985.7 | 1570.8 | 1736.3 | 1673.2 |
| 64° | 2644.1 | 2693.4 | 2680.7 | 2671.2 | 2603.1 | 2429.3 | 2293.7 | 1944.1 | 1538.3 | 1698.7 | 1641.7 |
| 64.5° | 2591.8 | 2647.5 | 2624.2 | 2604.9 | 2542.5 | 2366.5 | 2248.7 | 1905.4 | 1505.9 | 1662.8 | 1608.0 |
| 65° | 2540.0 | 2594.4 | 2578.5 | 2549.0 | 2483.7 | 2305.9 | 2204.5 | 1865.8 | 1471.1 | 1625.5 | 1573.2 |
| 65.5° | 2469.5 | 2524.2 | 2525.0 | 2493.7 | 2426.8 | 2244.3 | 2158.8 | 1823.1 | 1438.2 | 1588.4 | 1541.2 |
| 66° | 2389.8 | 2452.7 | 2467.8 | 2440.4 | 2370.2 | 2183.6 | 2109.4 | 1778.3 | 1404.0 | 1554.4 | 1507.6 |
| 66.5° | 2313.2 | 2371.5 | 2398.0 | 2389.6 | 2315.0 | 2123.6 | 2052.3 | 1735.5 | 1372.3 | 1519.7 | 1472.3 |
| 67° | 2241.9 | 2290.3 | 2332.1 | 2334.0 | 2261.1 | 2068.5 | 1992.2 | 1693.3 | 1338.9 | 1485.2 | 1434.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 67.5° | 2175.8 | 2219.9 | 2261.9 | 2270.7 | 2204.7 | 2016.5 | 1930.1 | 1650.3 | 1305.3 | 1448.2 | 1404.0 |
| 68° | 2116.6 | 2158.0 | 2188.9 | 2206.0 | 2147.7 | 1962.0 | 1871.5 | 1608.6 | 1272.5 | 1412.2 | 1368.2 |
| 68.5° | 2058.8 | 2093.0 | 2115.5 | 2140.9 | 2091.8 | 1911.7 | 1808.2 | 1564.4 | 1240.2 | 1377.7 | 1333.4 |
| 69° | 2005.2 | 2030.5 | 2048.6 | 2074.8 | 2033.4 | 1863.5 | 1747.1 | 1524.0 | 1205.8 | 1342.5 | 1296.3 |
| 69.5° | 1945.6 | 1975.1 | 1984.2 | 2006.5 | 1971.6 | 1815.1 | 1685.5 | 1482.8 | 1168.7 | 1303.2 | 1257.6 |
| 70° | 1879.4 | 1910.0 | 1920.8 | 1943.3 | 1909.1 | 1759.9 | 1626.3 | 1440.8 | 1133.1 | 1265.4 | 1224.6 |
| 70.5° | 1814.3 | 1846.2 | 1861.2 | 1882.6 | 1847.9 | 1703.9 | 1572.7 | 1398.8 | 1096.2 | 1227.9 | 1184.1 |
| 71° | 1751.1 | 1782.4 | 1799.7 | 1823.9 | 1783.4 | 1648.9 | 1517.2 | 1357.5 | 1061.5 | 1188.1 | 1146.3 |
| 71.5° | 1688.1 | 1716.6 | 1734.0 | 1759.8 | 1718.0 | 1590.2 | 1464.2 | 1320.1 | 1028.8 | 1151.7 | 1106.4 |
| 72° | 1631.4 | 1659.4 | 1668.4 | 1695.8 | 1656.4 | 1531.9 | 1412.6 | 1280.5 | 996.0 | 1114.9 | 1066.1 |
| 72.5° | 1574.9 | 1601.4 | 1611.7 | 1633.1 | 1596.8 | 1472.7 | 1359.7 | 1241.0 | 963.2 | 1078.4 | 1029.1 |
| 73° | 1512.9 | 1545.4 | 1556.2 | 1572.8 | 1534.9 | 1415.4 | 1309.1 | 1204.7 | 931.6 | 1041.8 | 991.8 |
| 73.5° | 1450.4 | 1484.3 | 1496.6 | 1510.7 | 1476.0 | 1359.5 | 1261.6 | 1165.6 | 898.7 | 1005.7 | 953.7 |
| 74° | 1389.3 | 1422.8 | 1433.8 | 1449.9 | 1418.2 | 1303.4 | 1218.3 | 1122.5 | 864.4 | 969.8 | 916.5 |
| 74.5° | 1318.5 | 1351.6 | 1371.7 | 1388.6 | 1359.6 | 1249.8 | 1175.0 | 1072.3 | 832.0 | 931.0 | 881.5 |
| 75° | 1249.7 | 1277.8 | 1304.3 | 1327.3 | 1304.0 | 1198.1 | 1132.4 | 1024.4 | 799.7 | 895.3 | 846.8 |
| 75.5° | 1182.1 | 1209.9 | 1239.8 | 1266.0 | 1248.5 | 1147.9 | 1087.5 | 975.1 | 762.5 | 855.7 | 810.6 |
| 76° | 1114.4 | 1142.7 | 1174.0 | 1201.1 | 1191.5 | 1094.8 | 1041.1 | 922.0 | 725.1 | 816.5 | 775.2 |
| 76.5° | 1049.9 | 1077.3 | 1109.2 | 1138.2 | 1135.2 | 1043.1 | 992.4 | 869.0 | 687.0 | 778.3 | 742.3 |
| 77° | 989.0 | 1016.3 | 1049.7 | 1077.7 | 1079.2 | 993.7 | 944.5 | 821.6 | 653.5 | 741.7 | 708.0 |
| 77.5° | 928.5 | 956.8 | 990.0 | 1017.7 | 1020.4 | 945.4 | 895.5 | 774.8 | 620.5 | 702.7 | 674.1 |
| 78° | 871.1 | 896.7 | 933.1 | 959.0 | 965.9 | 895.0 | 845.3 | 731.7 | 586.1 | 665.1 | 638.5 |
| 78.5° | 817.5 | 842.2 | 876.1 | 902.9 | 910.9 | 845.4 | 797.7 | 689.0 | 554.8 | 626.4 | 605.2 |
| 79° | 765.9 | 789.7 | 817.8 | 847.9 | 855.0 | 798.4 | 756.6 | 650.8 | 524.1 | 589.2 | 572.5 |
| 79.5° | 713.2 | 736.7 | 764.2 | 792.7 | 799.6 | 751.3 | 716.4 | 612.8 | 493.4 | 553.2 | 550.2 |
| 80° | 669.0 | 689.3 | 712.7 | 740.3 | 747.7 | 704.4 | 675.3 | 577.9 | 462.8 | 519.3 | 517.6 |
| 80.5° | 625.6 | 645.9 | 661.7 | 688.8 | 698.0 | 662.3 | 637.6 | 544.5 | 432.1 | 485.3 | 484.3 |
| 81° | 584.8 | 601.5 | 616.2 | 638.9 | 650.3 | 620.9 | 598.9 | 511.7 | 401.4 | 451.4 | 451.0 |
| 81.5° | 549.1 | 562.6 | 573.0 | 593.0 | 602.9 | 577.9 | 559.2 | 478.8 | 374.3 | 417.5 | 417.7 |
| 82° | 514.3 | 526.8 | 534.8 | 550.8 | 557.4 | 533.9 | 522.1 | 445.9 | 347.8 | 383.5 | 385.1 |
| 82.5° | 479.6 | 491.2 | 499.4 | 514.9 | 520.8 | 497.3 | 485.1 | 413.1 | 320.8 | 353.3 | 354.4 |
| 83° | 444.8 | 455.5 | 464.0 | 479.5 | 484.4 | 460.8 | 448.1 | 381.7 | 293.3 | 323.3 | 325.9 |
| 83.5° | 410.0 | 419.9 | 428.7 | 444.0 | 448.0 | 424.2 | 411.1 | 353.6 | 267.7 | 294.2 | 300.6 |
| 84° | 375.2 | 384.3 | 393.3 | 408.6 | 411.6 | 387.7 | 374.1 | 326.2 | 243.6 | 265.1 | 274.5 |
| 84.5° | 346.2 | 355.4 | 362.6 | 373.2 | 375.3 | 357.4 | 343.0 | 298.2 | 220.5 | 237.2 | 248.2 |
| 85° | 318.4 | 328.0 | 334.1 | 343.7 | 346.4 | 329.9 | 313.8 | 272.9 | 198.3 | 210.2 | 222.9 |
| 85.5° | 294.6 | 303.7 | 308.4 | 317.2 | 320.8 | 304.8 | 285.9 | 248.3 | 178.3 | 185.7 | 199.8 |
| 86° | 272.9 | 281.0 | 285.0 | 293.1 | 297.0 | 282.0 | 261.8 | 225.5 | 160.5 | 162.2 | 178.0 |
| 86.5° | 253.1 | 260.4 | 263.5 | 270.8 | 274.9 | 261.3 | 239.8 | 203.5 | 142.7 | 139.7 | 156.7 |
| 87° | 235.4 | 242.6 | 244.9 | 250.2 | 254.3 | 242.2 | 221.1 | 183.5 | 126.2 | 119.8 | 137.4 |
| 87.5° | 220.2 | 226.2 | 228.4 | 232.4 | 236.0 | 225.2 | 204.1 | 167.8 | 112.2 | 101.9 | 119.6 |
| 88° | 206.2 | 210.5 | 213.0 | 215.5 | 218.9 | 209.5 | 188.0 | 152.9 | 100.8 | 86.2 | 103.4 |
| 88.5° | 194.4 | 198.0 | 199.3 | 201.1 | 203.8 | 195.3 | 174.8 | 141.0 | 91.4 | 72.9 | 90.9 |
| 89° | 183.7 | 186.5 | 187.2 | 188.4 | 189.7 | 182.7 | 163.1 | 130.6 | 83.7 | 62.7 | 81.0 |
| 89.5° | 174.0 | 176.3 | 176.0 | 176.4 | 177.2 | 171.5 | 152.6 | 122.2 | 77.2 | 54.2 | 73.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 90° | 165.9 | 167.2 | 166.2 | 165.9 | 166.1 | 161.4 | 143.4 | 114.5 | 72.0 | 49.7 | 66.8 |
| 90.5° | 158.5 | 159.8 | 158.2 | 157.3 | 157.0 | 152.9 | 135.3 | 108.4 | 68.0 | 45.3 | 61.2 |
| 91° | 152.1 | 153.1 | 150.9 | 149.2 | 148.6 | 144.6 | 128.1 | 103.4 | 64.8 | 40.8 | 56.9 |
| 91.5° | 146.9 | 147.8 | 144.9 | 142.2 | 140.7 | 136.7 | 122.1 | 99.1 | 62.0 | 36.3 | 54.8 |
| 92° | 142.1 | 142.5 | 138.9 | 135.5 | 132.7 | 130.2 | 117.1 | 95.6 | 59.7 | 34.0 | 52.9 |
| 92.5° | 136.6 | 137.2 | 132.9 | 128.7 | 126.6 | 124.7 | 112.9 | 92.7 | 57.9 | 32.5 | 50.9 |
| 93° | 131.5 | 131.9 | 127.3 | 123.3 | 121.8 | 119.7 | 109.1 | 90.1 | 56.6 | 31.5 | 49.0 |
| 93.5° | 128.0 | 128.3 | 123.5 | 119.5 | 117.4 | 115.4 | 105.8 | 87.9 | 55.8 | 30.9 | 47.0 |
| 94° | 125.4 | 125.6 | 120.4 | 116.0 | 113.6 | 111.7 | 103.0 | 85.9 | 55.1 | 30.6 | 46.4 |
| 94.5° | 123.3 | 123.5 | 117.9 | 113.1 | 110.1 | 108.4 | 100.4 | 84.0 | 54.3 | 30.4 | 45.9 |
| 95° | 121.7 | 121.8 | 116.0 | 110.6 | 107.1 | 105.4 | 97.9 | 82.3 | 53.6 | 30.3 | 45.1 |
| 95.5° | 120.1 | 120.2 | 114.2 | 108.7 | 104.7 | 102.9 | 95.9 | 80.8 | 52.8 | 30.3 | 44.7 |
| 96° | 118.3 | 118.5 | 112.7 | 106.9 | 102.7 | 100.6 | 93.9 | 79.3 | 52.4 | 30.1 | 44.5 |
| 96.5° | 117.2 | 117.4 | 111.4 | 105.4 | 100.8 | 98.6 | 92.0 | 78.0 | 52.1 | 30.2 | 44.3 |
| 97° | 116.4 | 116.6 | 110.5 | 104.1 | 99.1 | 96.7 | 90.3 | 76.8 | 52.0 | 30.5 | 44.1 |
| 97.5° | 115.8 | 115.8 | 109.7 | 103.0 | 97.7 | 94.9 | 88.6 | 75.7 | 52.0 | 30.9 | 43.8 |
| 98° | 115.0 | 115.1 | 109.0 | 102.0 | 96.4 | 93.2 | 87.0 | 74.8 | 52.1 | 31.3 | 43.5 |
| 98.5° | 114.1 | 114.4 | 108.3 | 101.1 | 95.2 | 91.8 | 85.6 | 74.1 | 52.3 | 31.6 | 43.2 |
| 99° | 113.5 | 113.7 | 107.7 | 100.2 | 94.2 | 90.5 | 84.4 | 73.6 | 52.4 | 32.0 | 42.8 |
| 99.5° | 112.8 | 112.9 | 107.0 | 99.5 | 93.3 | 89.2 | 83.4 | 73.1 | 52.6 | 32.4 | 42.4 |
| 100° | 111.9 | 112.2 | 106.3 | 98.9 | 92.4 | 88.1 | 82.5 | 72.8 | 52.8 | 32.9 | 42.0 |
| 100.5° | 111.0 | 111.4 | 105.8 | 98.1 | 91.5 | 87.2 | 81.7 | 72.5 | 53.1 | 33.3 | 41.7 |
| 101° | 110.1 | 110.6 | 104.8 | 97.1 | 90.8 | 86.5 | 81.0 | 72.3 | 53.3 | 33.8 | 41.4 |
| 101.5° | 108.1 | 108.9 | 103.5 | 96.3 | 90.5 | 86.0 | 80.6 | 72.2 | 53.6 | 34.2 | 41.2 |
| 102° | 106.5 | 107.4 | 102.7 | 96.2 | 90.3 | 85.5 | 80.1 | 72.1 | 53.9 | 34.8 | 41.1 |
| 102.5° | 105.7 | 106.9 | 102.7 | 96.3 | 90.2 | 85.1 | 79.7 | 72.0 | 54.3 | 35.3 | 41.0 |
| 103° | 106.0 | 107.2 | 103.0 | 96.3 | 90.0 | 84.8 | 79.2 | 72.0 | 54.8 | 35.8 | 41.0 |
| 103.5° | 105.9 | 107.3 | 102.9 | 96.2 | 89.8 | 84.5 | 78.8 | 72.0 | 55.2 | 36.4 | 41.0 |
| 104° | 105.5 | 106.9 | 102.5 | 95.9 | 89.6 | 84.1 | 78.5 | 71.9 | 55.7 | 36.9 | 41.1 |
| 104.5° | 104.8 | 106.3 | 102.2 | 95.6 | 89.3 | 83.8 | 78.1 | 71.9 | 56.2 | 37.5 | 41.3 |
| 105° | 104.2 | 105.8 | 101.9 | 95.4 | 89.2 | 83.6 | 77.8 | 71.9 | 56.7 | 38.0 | 41.4 |
| 105.5° | 103.6 | 105.3 | 101.5 | 95.2 | 89.1 | 83.3 | 77.5 | 71.9 | 57.1 | 38.5 | 41.7 |
| 106° | 102.9 | 104.8 | 101.1 | 95.1 | 89.0 | 83.1 | 77.2 | 71.8 | 57.5 | 39.1 | 41.9 |
| 106.5° | 102.4 | 104.3 | 100.7 | 94.9 | 88.8 | 82.8 | 76.9 | 71.7 | 57.9 | 39.6 | 42.2 |
| 107° | 102.1 | 103.8 | 100.4 | 94.7 | 88.6 | 82.5 | 76.6 | 71.6 | 58.2 | 40.1 | 42.5 |
| 107.5° | 101.7 | 103.4 | 100.0 | 94.3 | 88.5 | 82.2 | 76.3 | 71.6 | 58.6 | 40.6 | 42.7 |
| 108° | 101.2 | 102.7 | 99.5 | 94.0 | 88.3 | 81.9 | 76.0 | 71.6 | 59.1 | 41.1 | 43.0 |
| 108.5° | 100.5 | 102.0 | 99.1 | 93.6 | 88.0 | 81.6 | 75.8 | 71.6 | 59.5 | 41.5 | 43.3 |
| 109° | 99.8 | 101.3 | 98.5 | 93.2 | 87.7 | 81.4 | 75.7 | 71.8 | 60.0 | 41.9 | 43.5 |
| 109.5° | 99.0 | 100.5 | 97.8 | 92.8 | 87.4 | 81.2 | 75.5 | 72.0 | 60.4 | 42.4 | 43.8 |
| 110° | 98.1 | 99.6 | 97.3 | 92.4 | 87.2 | 81.0 | 75.5 | 72.1 | 60.9 | 42.9 | 44.1 |
| 110.5° | 97.2 | 98.8 | 96.7 | 92.0 | 87.0 | 80.8 | 75.3 | 72.3 | 61.3 | 43.3 | 44.3 |
| 111° | 96.3 | 98.1 | 96.1 | 91.5 | 86.7 | 80.6 | 75.2 | 72.5 | 61.7 | 43.8 | 44.6 |
| 111.5° | 95.5 | 97.3 | 95.5 | 91.1 | 86.4 | 80.4 | 75.1 | 72.7 | 62.1 | 44.2 | 44.8 |
| 112° | 94.7 | 96.5 | 94.9 | 90.7 | 86.1 | 80.3 | 75.1 | 72.9 | 62.5 | 44.6 | 45.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 93.9 | 95.7 | 94.3 | 90.3 | 85.7 | 80.2 | 75.1 | 73.1 | 62.9 | 45.0 | 45.2 |
| 113° | 93.1 | 95.0 | 93.7 | 89.8 | 85.4 | 80.1 | 75.1 | 73.3 | 63.3 | 45.4 | 45.4 |
| 113.5° | 92.5 | 94.5 | 93.2 | 89.2 | 85.2 | 80.0 | 75.1 | 73.5 | 63.6 | 45.7 | 45.7 |
| 114° | 91.9 | 93.9 | 92.6 | 88.8 | 85.0 | 79.9 | 75.1 | 73.7 | 64.0 | 46.0 | 45.9 |
| 114.5° | 91.4 | 93.4 | 92.0 | 88.4 | 84.9 | 79.9 | 75.1 | 73.9 | 64.2 | 46.3 | 46.0 |
| 115° | 90.8 | 92.7 | 91.4 | 88.1 | 84.7 | 79.7 | 75.1 | 74.0 | 64.5 | 46.6 | 46.2 |
| 115.5° | 90.2 | 92.1 | 90.8 | 87.9 | 84.5 | 79.6 | 75.1 | 74.2 | 64.8 | 46.9 | 46.3 |
| 116° | 89.6 | 91.4 | 90.4 | 87.7 | 84.4 | 79.5 | 75.1 | 74.3 | 65.0 | 47.1 | 46.4 |
| 116.5° | 89.1 | 91.0 | 90.1 | 87.6 | 84.3 | 79.5 | 75.1 | 74.4 | 65.2 | 47.3 | 46.5 |
| 117° | 88.7 | 90.6 | 89.8 | 87.4 | 84.1 | 79.4 | 75.1 | 74.4 | 65.4 | 47.4 | 46.6 |
| 117.5° | 88.5 | 90.2 | 89.6 | 87.2 | 84.0 | 79.3 | 75.1 | 74.5 | 65.5 | 47.5 | 46.7 |
| 118° | 88.3 | 89.9 | 89.4 | 87.2 | 83.9 | 79.2 | 75.1 | 74.5 | 65.6 | 47.5 | 46.7 |
| 118.5° | 88.2 | 89.7 | 89.3 | 87.1 | 83.8 | 79.2 | 75.0 | 74.5 | 65.5 | 47.4 | 46.8 |
| 119° | 88.0 | 89.5 | 89.2 | 87.0 | 83.7 | 79.2 | 75.1 | 74.5 | 65.5 | 47.3 | 46.9 |
| 119.5° | 88.1 | 89.4 | 89.2 | 86.9 | 83.5 | 79.1 | 75.1 | 74.5 | 65.4 | 47.1 | 47.0 |
| 120° | 88.1 | 89.4 | 89.3 | 86.9 | 83.4 | 79.1 | 75.1 | 74.4 | 65.3 | 47.0 | 47.1 |
| 120.5° | 88.3 | 89.5 | 89.4 | 86.8 | 83.3 | 79.1 | 75.2 | 74.5 | 65.2 | 46.9 | 47.1 |
| 121° | 88.4 | 89.5 | 89.3 | 86.7 | 83.2 | 79.2 | 75.2 | 74.5 | 65.0 | 46.7 | 47.1 |
| 121.5° | 88.5 | 89.5 | 89.3 | 86.7 | 83.2 | 79.2 | 75.4 | 74.5 | 64.9 | 46.5 | 47.1 |
| 122° | 88.6 | 89.6 | 89.4 | 86.6 | 83.2 | 79.3 | 75.5 | 74.6 | 64.7 | 46.3 | 47.1 |
| 122.5° | 88.7 | 89.8 | 89.4 | 86.7 | 83.2 | 79.4 | 75.5 | 74.6 | 64.4 | 46.0 | 47.1 |
| 123° | 88.9 | 89.9 | 89.5 | 86.7 | 83.2 | 79.4 | 75.7 | 74.6 | 64.1 | 45.7 | 47.0 |
| 123.5° | 89.1 | 90.0 | 89.6 | 86.6 | 83.2 | 79.6 | 75.8 | 74.6 | 63.8 | 45.4 | 47.0 |
| 124° | 89.2 | 90.1 | 89.7 | 86.5 | 83.2 | 79.8 | 76.0 | 74.6 | 63.5 | 45.2 | 46.9 |
| 124.5° | 89.5 | 90.3 | 89.9 | 86.5 | 83.2 | 79.9 | 76.1 | 74.7 | 63.2 | 44.9 | 46.8 |
| 125° | 89.6 | 90.5 | 90.0 | 86.4 | 83.3 | 80.1 | 76.3 | 74.8 | 62.9 | 44.7 | 46.7 |
| 125.5° | 89.9 | 90.7 | 90.1 | 86.4 | 83.4 | 80.3 | 76.6 | 74.9 | 62.5 | 44.4 | 46.6 |
| 126° | 90.1 | 90.9 | 90.2 | 86.3 | 83.5 | 80.5 | 76.9 | 75.1 | 62.3 | 44.1 | 46.5 |
| 126.5° | 90.4 | 91.1 | 90.2 | 86.2 | 83.6 | 80.8 | 77.2 | 75.2 | 62.1 | 43.9 | 46.4 |
| 127° | 90.4 | 91.2 | 90.3 | 86.2 | 83.7 | 81.0 | 77.5 | 75.4 | 61.9 | 43.7 | 46.4 |
| 127.5° | 90.4 | 91.4 | 90.4 | 86.1 | 83.8 | 81.2 | 77.9 | 75.6 | 61.7 | 43.6 | 46.4 |
| 128° | 90.4 | 91.4 | 90.5 | 86.0 | 84.0 | 81.5 | 78.2 | 75.8 | 61.6 | 43.5 | 46.5 |
| 128.5° | 90.4 | 91.5 | 90.5 | 86.0 | 84.2 | 81.7 | 78.6 | 76.1 | 61.4 | 43.5 | 46.5 |
| 129° | 90.5 | 91.6 | 90.6 | 85.9 | 84.3 | 81.9 | 79.1 | 76.4 | 61.3 | 43.5 | 46.6 |
| 129.5° | 90.4 | 91.6 | 90.6 | 85.8 | 84.4 | 82.2 | 79.5 | 76.6 | 61.3 | 43.5 | 46.7 |
| 130° | 90.4 | 91.5 | 90.6 | 85.8 | 84.5 | 82.3 | 79.9 | 76.9 | 61.2 | 43.6 | 46.9 |
| 130.5° | 90.3 | 91.5 | 90.7 | 85.7 | 84.6 | 82.5 | 80.3 | 77.2 | 61.2 | 43.7 | 47.0 |
| 131° | 90.2 | 91.5 | 90.6 | 85.6 | 84.6 | 82.7 | 80.8 | 77.5 | 61.3 | 43.9 | 47.2 |
| 131.5° | 90.1 | 91.4 | 90.7 | 85.4 | 84.7 | 82.8 | 81.2 | 77.8 | 61.3 | 44.0 | 47.3 |
| 132° | 90.0 | 91.3 | 90.6 | 85.3 | 84.7 | 83.0 | 81.7 | 78.0 | 61.3 | 44.2 | 47.5 |
| 132.5° | 89.7 | 91.2 | 90.5 | 85.1 | 84.6 | 83.1 | 82.0 | 78.2 | 61.4 | 44.3 | 47.6 |
| 133° | 89.4 | 91.0 | 90.3 | 84.9 | 84.4 | 83.2 | 82.4 | 78.5 | 61.4 | 44.5 | 47.7 |
| 133.5° | 89.0 | 90.7 | 90.1 | 84.7 | 84.2 | 83.2 | 82.7 | 78.7 | 61.4 | 44.7 | 47.8 |
| 134° | 88.5 | 90.4 | 89.9 | 84.4 | 84.0 | 83.3 | 83.0 | 78.9 | 61.4 | 44.8 | 47.9 |
| 134.5° | 88.0 | 90.0 | 89.6 | 84.1 | 83.7 | 83.2 | 83.1 | 79.0 | 61.4 | 45.0 | 48.0 |



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 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 135° | 87.4 | 89.7 | 89.3 | 83.8 | 83.3 | 83.2 | 83.3 | 79.2 | 61.4 | 45.1 | 48.1 |
| 135.5° | 86.7 | 89.3 | 88.9 | 83.6 | 82.9 | 83.2 | 83.4 | 79.2 | 61.3 | 45.3 | 48.1 |
| 136° | 86.1 | 88.8 | 88.5 | 83.3 | 82.4 | 83.1 | 83.4 | 79.2 | 61.3 | 45.4 | 48.1 |
| 136.5° | 85.3 | 88.3 | 88.0 | 83.0 | 81.9 | 82.9 | 83.4 | 79.2 | 61.2 | 45.5 | 48.2 |
| 137° | 84.5 | 87.7 | 87.5 | 82.6 | 81.4 | 82.7 | 83.3 | 79.2 | 61.0 | 45.5 | 48.2 |
| 137.5° | 83.7 | 86.9 | 87.0 | 82.2 | 80.8 | 82.5 | 83.1 | 79.1 | 60.9 | 45.6 | 48.1 |
| 138° | 82.8 | 86.2 | 86.5 | 81.8 | 80.2 | 82.1 | 83.0 | 78.9 | 60.7 | 45.7 | 48.0 |
| 138.5° | 81.9 | 85.5 | 85.9 | 80.7 | 79.5 | 81.7 | 82.6 | 78.6 | 60.5 | 45.8 | 47.9 |
| 139° | 81.0 | 84.8 | 85.2 | 80.2 | 78.9 | 81.3 | 82.2 | 78.3 | 60.2 | 45.8 | 47.8 |
| 139.5° | 80.4 | 84.0 | 84.5 | 79.8 | 78.3 | 80.8 | 81.8 | 77.9 | 59.9 | 45.7 | 47.6 |
| 140° | 79.6 | 83.3 | 83.7 | 79.4 | 77.7 | 80.2 | 81.3 | 77.5 | 59.6 | 45.6 | 47.3 |
| 140.5° | 78.8 | 82.3 | 82.5 | 79.0 | 77.1 | 79.6 | 80.7 | 76.9 | 59.1 | 45.5 | 47.1 |
| 141° | 77.9 | 81.3 | 81.2 | 78.6 | 76.5 | 78.8 | 80.0 | 76.3 | 58.6 | 45.4 | 46.7 |
| 141.5° | 76.8 | 80.2 | 80.5 | 78.1 | 75.9 | 78.0 | 79.3 | 75.6 | 58.1 | 45.2 | 46.3 |
| 142° | 75.6 | 78.8 | 79.7 | 77.6 | 75.2 | 77.2 | 78.5 | 74.8 | 57.5 | 44.9 | 45.9 |
| 142.5° | 73.3 | 77.7 | 79.0 | 77.0 | 74.6 | 76.3 | 77.6 | 73.9 | 56.9 | 44.6 | 45.4 |
| 143° | 72.5 | 76.9 | 78.2 | 76.4 | 73.9 | 75.3 | 76.6 | 73.0 | 56.2 | 44.3 | 44.8 |
| 143.5° | 72.1 | 76.1 | 77.5 | 75.8 | 73.3 | 74.3 | 75.6 | 72.0 | 55.4 | 43.9 | 44.3 |
| 144° | 71.5 | 75.3 | 76.7 | 75.1 | 72.6 | 73.2 | 74.5 | 70.9 | 54.6 | 43.4 | 43.7 |
| 144.5° | 70.9 | 74.5 | 75.9 | 74.4 | 71.9 | 72.2 | 73.4 | 69.8 | 53.7 | 43.0 | 43.0 |
| 145° | 70.4 | 73.6 | 75.1 | 73.7 | 71.2 | 71.2 | 72.2 | 68.5 | 52.8 | 42.5 | 42.4 |
| 145.5° | 69.7 | 72.8 | 74.2 | 72.8 | 70.6 | 70.1 | 71.0 | 67.2 | 51.8 | 41.9 | 41.6 |
| 146° | 69.0 | 71.9 | 73.4 | 72.0 | 69.7 | 69.0 | 69.8 | 65.9 | 50.8 | 41.3 | 40.9 |
| 146.5° | 68.4 | 70.9 | 72.5 | 71.1 | 68.8 | 67.9 | 68.4 | 64.5 | 49.8 | 40.6 | 40.1 |
| 147° | 67.6 | 70.0 | 71.6 | 70.1 | 67.8 | 66.7 | 67.1 | 63.0 | 48.7 | 39.9 | 39.3 |
| 147.5° | 66.9 | 69.0 | 70.7 | 69.1 | 66.9 | 65.6 | 65.7 | 61.5 | 47.5 | 39.1 | 38.4 |
| 148° | 66.2 | 68.0 | 69.6 | 68.0 | 65.9 | 64.5 | 64.3 | 59.9 | 46.3 | 38.3 | 37.5 |
| 148.5° | 65.4 | 67.0 | 68.6 | 67.0 | 64.8 | 63.3 | 62.9 | 58.3 | 45.1 | 37.5 | 36.6 |
| 149° | 64.6 | 66.0 | 67.6 | 65.9 | 63.8 | 62.1 | 61.4 | 56.6 | 43.9 | 36.7 | 35.7 |
| 149.5° | 63.7 | 64.9 | 66.5 | 64.7 | 62.6 | 60.9 | 59.8 | 55.0 | 42.6 | 35.8 | 34.7 |
| 150° | 62.9 | 63.7 | 65.3 | 63.5 | 61.5 | 59.7 | 58.2 | 53.4 | 41.3 | 34.9 | 33.8 |
| 150.5° | 62.1 | 62.6 | 64.2 | 62.3 | 60.3 | 58.4 | 56.7 | 51.8 | 40.0 | 34.0 | 32.8 |
| 151° | 61.1 | 61.5 | 63.0 | 61.1 | 59.0 | 57.2 | 55.1 | 50.2 | 38.7 | 33.0 | 31.8 |
| 151.5° | 60.1 | 60.3 | 61.6 | 59.8 | 57.8 | 56.4 | 53.5 | 48.6 | 37.4 | 32.1 | 30.8 |
| 152° | 59.1 | 59.1 | 60.3 | 58.6 | 56.6 | 55.1 | 51.9 | 46.8 | 36.0 | 31.1 | 29.8 |
| 152.5° | 58.1 | 57.8 | 58.9 | 57.3 | 55.3 | 53.7 | 50.4 | 45.0 | 34.7 | 30.1 | 28.8 |
| 153° | 56.9 | 56.6 | 57.6 | 55.7 | 54.0 | 52.3 | 48.8 | 43.2 | 33.4 | 29.1 | 27.8 |
| 153.5° | 56.5 | 55.4 | 56.4 | 54.6 | 52.8 | 51.0 | 47.0 | 41.5 | 32.1 | 28.1 | 26.8 |
| 154° | 55.4 | 54.3 | 55.1 | 53.5 | 51.5 | 49.5 | 45.2 | 39.7 | 30.8 | 27.1 | 25.8 |
| 154.5° | 54.3 | 53.2 | 53.8 | 52.4 | 50.3 | 48.1 | 43.4 | 38.0 | 29.5 | 26.1 | 24.8 |
| 155° | 53.2 | 52.1 | 52.6 | 51.4 | 48.9 | 46.6 | 41.5 | 36.3 | 28.2 | 25.1 | 23.8 |
| 155.5° | 52.1 | 51.0 | 51.3 | 50.0 | 47.4 | 44.8 | 39.7 | 34.6 | 27.0 | 24.1 | 22.9 |
| 156° | 51.0 | 49.8 | 50.0 | 48.5 | 46.0 | 42.9 | 37.9 | 33.0 | 25.8 | 23.1 | 21.9 |
| 156.5° | 49.8 | 48.5 | 48.6 | 47.0 | 44.6 | 41.0 | 36.1 | 31.3 | 24.6 | 22.2 | 21.0 |
| 157° | 48.7 | 47.3 | 47.2 | 45.6 | 43.2 | 39.1 | 34.3 | 29.7 | 23.4 | 21.2 | 20.1 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 157.5° | 47.5 | 46.0 | 45.7 | 44.1 | 41.7 | 37.3 | 32.5 | 28.2 | 22.3 | 20.3 | 19.2 |
| 158° | 46.2 | 44.8 | 44.2 | 42.7 | 40.3 | 35.4 | 30.8 | 26.7 | 21.2 | 19.3 | 18.3 |
| 158.5° | 44.9 | 43.4 | 42.7 | 41.2 | 38.8 | 33.4 | 28.9 | 25.1 | 20.1 | 18.4 | 17.4 |
| 159° | 43.5 | 42.0 | 41.3 | 39.8 | 36.9 | 31.5 | 27.2 | 23.7 | 19.0 | 17.5 | 16.6 |
| 159.5° | 42.2 | 40.7 | 39.9 | 38.3 | 34.7 | 29.6 | 25.4 | 22.3 | 17.9 | 16.6 | 15.7 |
| 160° | 40.9 | 39.4 | 38.5 | 36.9 | 32.6 | 27.8 | 23.9 | 20.9 | 16.9 | 15.8 | 14.9 |
| 160.5° | 39.5 | 38.1 | 37.1 | 35.4 | 30.5 | 25.9 | 22.4 | 19.6 | 15.9 | 15.0 | 14.1 |
| 161° | 38.2 | 36.8 | 35.8 | 33.7 | 28.4 | 24.1 | 21.0 | 18.3 | 15.0 | 14.1 | 13.3 |
| 161.5° | 37.0 | 35.5 | 34.3 | 31.4 | 26.3 | 22.3 | 19.5 | 17.0 | 14.0 | 13.3 | 12.6 |
| 162° | 35.6 | 34.2 | 32.9 | 29.0 | 24.3 | 20.5 | 18.2 | 15.8 | 13.1 | 12.5 | 11.8 |
| 162.5° | 34.2 | 32.8 | 30.9 | 26.7 | 22.3 | 18.7 | 16.8 | 14.7 | 12.2 | 11.7 | 11.1 |
| 163° | 32.7 | 31.3 | 28.5 | 24.6 | 20.4 | 16.9 | 15.6 | 13.5 | 11.4 | 11.0 | 10.4 |
| 163.5° | 30.3 | 28.7 | 26.1 | 22.4 | 18.5 | 15.0 | 14.3 | 12.5 | 10.5 | 10.2 | 9.7 |
| 164° | 27.7 | 26.3 | 23.7 | 20.5 | 16.8 | 13.7 | 13.2 | 11.5 | 9.8 | 9.6 | 9.1 |
| 164.5° | 25.1 | 23.8 | 21.5 | 18.6 | 15.0 | 12.6 | 12.0 | 10.6 | 9.0 | 8.9 | 8.4 |
| 165° | 22.6 | 21.5 | 19.4 | 16.8 | 13.2 | 11.5 | 11.0 | 9.7 | 8.3 | 8.3 | 7.9 |
| 165.5° | 20.1 | 19.2 | 17.3 | 15.0 | 11.3 | 10.5 | 10.0 | 8.8 | 7.7 | 7.7 | 7.3 |
| 166° | 17.9 | 17.2 | 15.6 | 13.3 | 9.6 | 9.5 | 9.1 | 8.0 | 7.0 | 7.1 | 6.8 |
| 166.5° | 15.9 | 15.3 | 13.7 | 11.6 | 8.9 | 8.6 | 8.2 | 7.3 | 6.5 | 6.6 | 6.3 |
| 167° | 14.0 | 13.5 | 11.9 | 9.8 | 8.3 | 7.8 | 7.4 | 6.6 | 5.9 | 6.1 | 5.9 |
| 167.5° | 12.1 | 11.7 | 10.1 | 7.8 | 7.7 | 7.1 | 6.6 | 6.0 | 5.5 | 5.6 | 5.4 |
| 168° | 10.0 | 9.7 | 8.1 | 7.2 | 7.2 | 6.6 | 5.9 | 5.4 | 5.0 | 5.1 | 5.0 |
| 168.5° | 7.9 | 7.6 | 6.5 | 6.7 | 6.7 | 6.1 | 5.5 | 4.9 | 4.5 | 4.6 | 4.6 |
| 169° | 6.1 | 6.1 | 6.0 | 6.2 | 6.2 | 5.8 | 5.1 | 4.4 | 4.0 | 4.2 | 4.2 |
| 169.5° | 5.7 | 5.8 | 5.7 | 5.8 | 5.8 | 5.4 | 4.8 | 3.8 | 3.6 | 3.8 | 3.8 |
| 170° | 5.5 | 5.5 | 5.4 | 5.5 | 5.5 | 5.1 | 4.4 | 3.7 | 3.4 | 3.6 | 3.8 |
| 170.5° | 5.2 | 5.2 | 5.1 | 5.2 | 5.2 | 4.7 | 4.2 | 3.6 | 3.4 | 3.6 | 3.8 |
| 171° | 4.9 | 4.9 | 4.8 | 4.9 | 4.8 | 4.5 | 4.0 | 3.5 | 3.4 | 3.6 | 3.8 |
| 171.5° | 4.7 | 4.7 | 4.6 | 4.6 | 4.5 | 4.3 | 3.9 | 3.5 | 3.5 | 3.6 | 3.8 |
| 172° | 4.5 | 4.5 | 4.4 | 4.4 | 4.3 | 4.1 | 3.8 | 3.5 | 3.5 | 3.7 | 3.9 |
| 172.5° | 4.3 | 4.3 | 4.3 | 4.2 | 4.1 | 4.0 | 3.7 | 3.5 | 3.6 | 3.8 | 4.0 |
| 173° | 4.2 | 4.2 | 4.2 | 4.0 | 4.0 | 3.9 | 3.7 | 3.5 | 3.7 | 3.9 | 4.1 |
| 173.5° | 4.0 | 4.1 | 4.0 | 3.9 | 3.8 | 3.8 | 3.7 | 3.6 | 3.8 | 4.0 | 4.2 |
| 174° | 3.9 | 3.9 | 3.9 | 3.7 | 3.7 | 3.7 | 3.6 | 3.6 | 3.8 | 4.0 | 4.2 |
| 174.5° | 3.8 | 3.8 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.8 | 4.0 | 4.2 |
| 175° | 3.6 | 3.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.7 | 3.8 | 4.0 | 4.2 |
| 175.5° | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 | 3.5 | 3.5 | 3.7 | 3.9 | 4.1 | 4.2 |
| 176° | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.5 | 3.7 | 3.9 | 4.1 | 4.2 |
| 176.5° | 3.4 | 3.4 | 3.3 | 3.3 | 3.3 | 3.4 | 3.5 | 3.7 | 3.9 | 4.1 | 4.2 |
| 177° | 3.4 | 3.4 | 3.3 | 3.3 | 3.3 | 3.4 | 3.5 | 3.7 | 3.9 | 4.0 | 4.2 |
| 177.5° | 3.4 | 3.4 | 3.3 | 3.3 | 3.3 | 3.4 | 3.5 | 3.7 | 3.8 | 4.0 | 4.2 |
| 178° | 3.4 | 3.4 | 3.4 | 3.3 | 3.3 | 3.4 | 3.5 | 3.7 | 3.8 | 4.0 | 4.2 |
| 178.5° | 3.4 | 3.4 | 3.4 | 3.3 | 3.3 | 3.4 | 3.5 | 3.7 | 3.8 | 3.9 | 4.1 |
| 179° | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.5 | 3.7 | 3.8 | 3.9 | 4.1 |
| 179.5° | 3.5 | 3.5 | 3.5 | 3.4 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.1 |



REPORT NUMBER: P973039
CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 180° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |



REPORT NUMBER: P973039

CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 |
| 0.5° | 3458.9 | 3450.4 | 3444.5 | 3442.6 | 3444.4 | 3443.2 | 3443.3 | 3420.2 | 3419.3 | 3421.4 | 3425.6 |
| 1° | 3446.6 | 3439.6 | 3443.6 | 3449.9 | 3459.5 | 3466.3 | 3468.8 | 3415.5 | 3414.1 | 3413.3 | 3412.0 |
| 1.5° | 3430.4 | 3436.4 | 3457.8 | 3482.4 | 3504.6 | 3517.2 | 3518.5 | 3459.8 | 3455.5 | 3449.4 | 3442.6 |
| 2° | 3428.3 | 3452.2 | 3486.4 | 3519.9 | 3544.4 | 3557.7 | 3564.7 | 3511.5 | 3504.9 | 3497.7 | 3487.1 |
| 2.5° | 3427.4 | 3473.7 | 3520.2 | 3550.6 | 3568.5 | 3570.6 | 3570.5 | 3536.8 | 3530.8 | 3529.1 | 3523.6 |
| 3° | 3435.2 | 3493.1 | 3537.2 | 3559.8 | 3555.8 | 3536.3 | 3524.4 | 3516.8 | 3517.3 | 3527.6 | 3532.2 |
| 3.5° | 3441.9 | 3509.1 | 3542.9 | 3534.4 | 3499.9 | 3466.3 | 3452.9 | 3445.4 | 3451.7 | 3469.5 | 3508.5 |
| 4° | 3453.0 | 3514.0 | 3526.1 | 3476.7 | 3428.3 | 3412.5 | 3414.3 | 3389.3 | 3388.2 | 3403.5 | 3442.4 |
| 4.5° | 3458.7 | 3510.7 | 3488.6 | 3413.8 | 3393.4 | 3398.0 | 3412.0 | 3375.6 | 3370.8 | 3373.5 | 3388.8 |
| 5° | 3462.8 | 3495.1 | 3427.2 | 3373.8 | 3384.4 | 3407.4 | 3419.8 | 3390.4 | 3379.6 | 3370.2 | 3365.9 |
| 5.5° | 3458.5 | 3467.0 | 3373.8 | 3358.4 | 3387.1 | 3395.9 | 3388.1 | 3375.8 | 3375.1 | 3375.2 | 3369.8 |
| 6° | 3451.0 | 3424.2 | 3343.3 | 3355.2 | 3367.9 | 3333.1 | 3293.8 | 3303.8 | 3312.0 | 3348.7 | 3373.1 |
| 6.5° | 3443.3 | 3375.8 | 3324.6 | 3344.1 | 3308.5 | 3223.4 | 3167.2 | 3184.9 | 3203.3 | 3269.3 | 3340.4 |
| 7° | 3430.8 | 3333.2 | 3316.1 | 3307.9 | 3207.1 | 3100.0 | 3058.3 | 3066.8 | 3083.7 | 3152.7 | 3268.4 |
| 7.5° | 3410.0 | 3302.1 | 3299.1 | 3236.6 | 3090.6 | 3011.4 | 3007.9 | 2994.9 | 2994.4 | 3040.0 | 3159.2 |
| 8° | 3380.2 | 3278.9 | 3273.0 | 3146.0 | 3002.5 | 2980.2 | 2999.8 | 2982.2 | 2974.1 | 2972.8 | 3049.3 |
| 8.5° | 3353.9 | 3253.9 | 3224.1 | 3045.7 | 2951.3 | 2969.9 | 2971.2 | 2969.1 | 2970.4 | 2958.9 | 2974.5 |
| 9° | 3316.4 | 3234.1 | 3163.0 | 2964.5 | 2935.2 | 2932.8 | 2888.1 | 2898.0 | 2917.4 | 2948.4 | 2955.9 |
| 9.5° | 3285.9 | 3212.7 | 3085.1 | 2914.2 | 2915.0 | 2843.4 | 2758.0 | 2783.7 | 2811.3 | 2897.1 | 2952.9 |
| 10° | 3257.0 | 3185.5 | 3004.9 | 2886.2 | 2852.5 | 2717.3 | 2626.6 | 2640.0 | 2673.6 | 2784.4 | 2928.0 |
| 10.5° | 3229.2 | 3154.2 | 2935.5 | 2866.4 | 2754.6 | 2593.0 | 2537.4 | 2539.2 | 2553.2 | 2647.7 | 2861.0 |
| 11° | 3210.0 | 3113.6 | 2876.5 | 2828.0 | 2643.0 | 2508.2 | 2490.4 | 2486.3 | 2488.1 | 2532.6 | 2735.0 |
| 11.5° | 3190.3 | 3067.7 | 2832.0 | 2758.2 | 2536.3 | 2458.8 | 2434.7 | 2441.0 | 2447.9 | 2473.3 | 2605.6 |
| 12° | 3172.9 | 3018.8 | 2806.4 | 2671.9 | 2458.6 | 2407.0 | 2345.5 | 2358.8 | 2386.2 | 2438.2 | 2510.9 |
| 12.5° | 3155.7 | 2963.9 | 2781.3 | 2581.9 | 2413.9 | 2323.7 | 2226.2 | 2241.4 | 2284.2 | 2386.3 | 2461.1 |
| 13° | 3140.7 | 2913.1 | 2746.8 | 2486.1 | 2356.5 | 2210.8 | 2101.8 | 2108.5 | 2153.0 | 2292.7 | 2430.7 |
| 13.5° | 3120.5 | 2868.4 | 2700.9 | 2414.7 | 2281.2 | 2092.1 | 2003.8 | 2002.4 | 2035.2 | 2169.2 | 2384.1 |
| 14° | 3095.8 | 2827.5 | 2642.4 | 2363.7 | 2187.7 | 1992.9 | 1924.5 | 1923.8 | 1945.5 | 2044.4 | 2299.4 |
| 14.5° | 3070.4 | 2790.5 | 2572.1 | 2308.3 | 2078.9 | 1909.7 | 1843.9 | 1851.2 | 1875.1 | 1951.9 | 2182.8 |
| 15° | 3038.6 | 2759.5 | 2504.0 | 2247.7 | 1980.4 | 1835.0 | 1756.7 | 1760.7 | 1797.5 | 1882.3 | 2057.4 |
| 15.5° | 3003.5 | 2730.2 | 2433.8 | 2176.9 | 1898.1 | 1753.1 | 1652.8 | 1651.6 | 1704.7 | 1814.5 | 1957.0 |
| 16° | 2970.2 | 2701.3 | 2370.7 | 2091.7 | 1825.3 | 1659.4 | 1535.2 | 1535.3 | 1590.1 | 1731.8 | 1883.4 |
| 16.5° | 2934.7 | 2668.1 | 2321.4 | 2002.2 | 1749.9 | 1552.2 | 1417.8 | 1418.9 | 1468.4 | 1633.3 | 1827.1 |
| 17° | 2901.4 | 2626.6 | 2271.2 | 1923.9 | 1671.6 | 1444.3 | 1319.9 | 1317.2 | 1354.5 | 1509.0 | 1756.8 |
| 17.5° | 2869.4 | 2583.3 | 2217.4 | 1845.8 | 1581.2 | 1338.3 | 1239.5 | 1267.6 | 1299.9 | 1392.1 | 1668.7 |
| 18° | 2835.4 | 2538.2 | 2165.8 | 1771.9 | 1476.2 | 1250.2 | 1181.8 | 1218.1 | 1245.3 | 1293.8 | 1564.3 |
| 18.5° | 2802.8 | 2483.8 | 2106.3 | 1703.8 | 1381.1 | 1184.9 | 1137.6 | 1168.5 | 1190.7 | 1241.1 | 1453.9 |
| 19° | 2769.6 | 2434.5 | 2038.2 | 1634.1 | 1290.0 | 1134.4 | 1100.6 | 1119.0 | 1136.1 | 1188.4 | 1345.5 |
| 19.5° | 2731.6 | 2380.3 | 1968.1 | 1555.6 | 1209.5 | 1093.2 | 1066.5 | 1069.5 | 1082.1 | 1135.7 | 1289.4 |
| 20° | 2695.3 | 2322.5 | 1894.8 | 1477.7 | 1149.6 | 1059.6 | 1033.4 | 1036.1 | 1047.1 | 1083.4 | 1233.2 |
| 20.5° | 2661.2 | 2264.6 | 1814.9 | 1389.4 | 1099.1 | 1024.8 | 997.5 | 1002.4 | 1013.6 | 1050.6 | 1177.1 |
| 21° | 2621.8 | 2216.5 | 1747.0 | 1304.6 | 1059.8 | 992.2 | 963.4 | 967.0 | 979.1 | 1018.1 | 1121.0 |
| 21.5° | 2586.4 | 2165.2 | 1681.4 | 1231.8 | 1026.2 | 959.7 | 928.7 | 931.7 | 944.5 | 984.0 | 1065.9 |
| 22° | 2555.2 | 2121.7 | 1617.3 | 1161.9 | 994.0 | 925.6 | 891.9 | 895.9 | 909.3 | 951.3 | 1034.0 |



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CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|
| 22.5° | 2521.3 | 2085.0 | 1563.1 | 1106.9 | 962.6 | 891.8 | 857.0 | 861.4 | 874.4 | 919.0 | 1003.2 |
| 23° | 2494.5 | 2048.8 | 1505.1 | 1063.9 | 932.4 | 858.9 | 823.8 | 826.6 | 841.2 | 885.5 | 973.1 |
| 23.5° | 2467.0 | 2006.6 | 1435.5 | 1024.7 | 900.9 | 824.1 | 789.2 | 794.1 | 809.1 | 853.9 | 943.5 |
| 24° | 2441.4 | 1963.8 | 1371.0 | 992.9 | 868.9 | 792.3 | 756.2 | 760.6 | 775.0 | 821.7 | 913.8 |
| 24.5° | 2413.7 | 1913.3 | 1304.8 | 964.1 | 839.8 | 762.3 | 725.5 | 728.9 | 743.8 | 790.3 | 884.7 |
| 25° | 2386.3 | 1853.5 | 1234.8 | 935.0 | 808.2 | 730.1 | 692.8 | 697.2 | 712.9 | 760.6 | 855.2 |
| 25.5° | 2358.4 | 1795.8 | 1176.1 | 906.7 | 777.1 | 698.4 | 661.1 | 665.3 | 681.0 | 730.5 | 825.8 |
| 26° | 2329.7 | 1732.0 | 1126.2 | 881.4 | 749.8 | 670.2 | 632.3 | 635.0 | 651.0 | 701.1 | 797.4 |
| 26.5° | 2301.0 | 1673.0 | 1076.4 | 854.5 | 721.0 | 640.8 | 601.8 | 606.1 | 621.9 | 671.9 | 770.3 |
| 27° | 2266.8 | 1622.4 | 1039.1 | 827.2 | 691.9 | 611.8 | 573.0 | 576.1 | 591.0 | 643.2 | 742.0 |
| 27.5° | 2231.5 | 1573.6 | 1005.2 | 801.5 | 665.3 | 583.7 | 554.7 | 547.2 | 562.3 | 614.2 | 714.4 |
| 28° | 2194.7 | 1529.3 | 974.3 | 776.0 | 638.3 | 558.3 | 526.5 | 520.3 | 535.3 | 587.2 | 686.9 |
| 28.5° | 2157.5 | 1488.8 | 947.2 | 749.4 | 610.5 | 533.2 | 497.8 | 493.7 | 507.9 | 559.9 | 660.5 |
| 29° | 2123.6 | 1449.3 | 923.9 | 725.4 | 586.0 | 508.1 | 469.1 | 467.6 | 481.1 | 533.7 | 634.0 |
| 29.5° | 2093.1 | 1410.1 | 898.7 | 700.6 | 561.3 | 483.1 | 440.3 | 444.0 | 456.5 | 509.5 | 608.4 |
| 30° | 2061.3 | 1371.4 | 876.4 | 675.4 | 538.0 | 458.0 | 417.4 | 421.3 | 432.8 | 485.5 | 583.2 |
| 30.5° | 2036.0 | 1328.8 | 854.6 | 652.8 | 514.7 | 433.0 | 396.9 | 400.1 | 411.0 | 461.6 | 558.8 |
| 31° | 2014.1 | 1286.8 | 830.4 | 629.4 | 491.4 | 410.8 | 376.4 | 380.1 | 390.4 | 439.9 | 535.0 |
| 31.5° | 1992.8 | 1250.5 | 808.5 | 605.4 | 468.1 | 389.7 | 357.2 | 361.4 | 370.1 | 419.3 | 513.1 |
| 32° | 1978.4 | 1211.8 | 787.5 | 584.4 | 444.8 | 371.4 | 340.7 | 344.2 | 351.9 | 399.3 | 491.9 |
| 32.5° | 1962.1 | 1177.2 | 765.6 | 562.4 | 424.5 | 352.7 | 324.0 | 328.5 | 334.8 | 380.4 | 471.3 |
| 33° | 1944.9 | 1148.8 | 746.9 | 542.5 | 404.9 | 335.1 | 308.6 | 313.5 | 318.6 | 362.8 | 451.5 |
| 33.5° | 1928.2 | 1120.2 | 729.1 | 522.6 | 387.3 | 319.4 | 294.9 | 299.9 | 304.1 | 345.8 | 432.7 |
| 34° | 1909.7 | 1096.3 | 708.8 | 502.8 | 370.1 | 304.4 | 282.1 | 287.1 | 289.7 | 329.5 | 414.6 |
| 34.5° | 1887.8 | 1076.8 | 690.5 | 482.9 | 353.2 | 289.6 | 270.1 | 275.0 | 276.6 | 314.1 | 397.5 |
| 35° | 1868.1 | 1059.2 | 673.6 | 463.0 | 338.1 | 277.0 | 259.9 | 264.2 | 265.0 | 300.0 | 380.9 |
| 35.5° | 1846.1 | 1043.5 | 655.5 | 445.0 | 323.8 | 265.0 | 249.8 | 254.0 | 254.2 | 286.4 | 363.6 |
| 36° | 1822.6 | 1031.5 | 639.5 | 427.2 | 309.1 | 253.5 | 240.4 | 244.7 | 244.0 | 274.0 | 347.9 |
| 36.5° | 1801.5 | 1018.6 | 624.1 | 411.6 | 295.9 | 243.2 | 231.9 | 236.1 | 235.2 | 262.3 | 333.1 |
| 37° | 1779.7 | 1006.6 | 607.2 | 395.7 | 283.5 | 233.5 | 223.7 | 227.5 | 226.7 | 251.6 | 318.3 |
| 37.5° | 1759.8 | 996.4 | 592.4 | 380.7 | 271.0 | 224.6 | 215.7 | 219.6 | 218.7 | 241.7 | 304.2 |
| 38° | 1741.5 | 984.1 | 578.3 | 367.0 | 259.8 | 216.6 | 208.3 | 212.1 | 211.2 | 232.5 | 291.0 |
| 38.5° | 1725.0 | 972.7 | 563.0 | 354.1 | 249.2 | 209.0 | 201.3 | 204.7 | 204.0 | 224.0 | 278.5 |
| 39° | 1709.9 | 962.9 | 549.9 | 341.2 | 238.9 | 201.8 | 194.4 | 198.1 | 197.2 | 216.5 | 267.3 |
| 39.5° | 1696.6 | 951.7 | 536.9 | 329.7 | 229.4 | 195.1 | 188.1 | 191.5 | 190.7 | 208.5 | 255.9 |
| 40° | 1681.5 | 940.2 | 524.0 | 317.9 | 220.6 | 188.6 | 182.0 | 185.6 | 184.8 | 201.4 | 245.7 |
| 40.5° | 1666.3 | 931.1 | 511.0 | 306.9 | 212.0 | 182.4 | 175.9 | 179.9 | 179.0 | 194.6 | 236.3 |
| 41° | 1653.6 | 919.8 | 498.0 | 297.3 | 204.5 | 176.7 | 170.8 | 174.5 | 173.5 | 188.0 | 227.2 |
| 41.5° | 1640.1 | 908.5 | 485.2 | 287.7 | 197.4 | 171.3 | 165.7 | 169.3 | 168.5 | 181.8 | 218.8 |
| 42° | 1626.1 | 898.7 | 473.8 | 277.7 | 190.0 | 165.9 | 160.7 | 164.4 | 163.6 | 176.2 | 211.3 |
| 42.5° | 1614.6 | 887.8 | 463.3 | 269.4 | 183.7 | 161.0 | 156.1 | 159.7 | 158.9 | 170.7 | 204.0 |
| 43° | 1601.9 | 878.1 | 451.8 | 261.2 | 177.9 | 156.3 | 151.5 | 155.1 | 154.2 | 165.6 | 197.0 |
| 43.5° | 1588.0 | 868.5 | 440.8 | 252.7 | 171.8 | 151.6 | 146.9 | 150.7 | 149.7 | 160.6 | 190.4 |
| 44° | 1576.5 | 858.3 | 430.7 | 244.9 | 166.3 | 147.3 | 142.7 | 146.4 | 145.3 | 155.8 | 184.3 |
| 44.5° | 1565.4 | 848.5 | 419.9 | 238.0 | 161.4 | 143.0 | 138.8 | 142.2 | 141.1 | 151.3 | 178.3 |



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CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 45° | 1553.3 | 838.6 | 409.8 | 230.8 | 156.3 | 138.9 | 134.7 | 138.5 | 137.0 | 146.8 | 172.6 |
| 45.5° | 1542.7 | 828.2 | 400.6 | 224.2 | 151.7 | 134.9 | 131.0 | 134.8 | 133.2 | 142.3 | 167.2 |
| 46° | 1532.8 | 819.5 | 390.3 | 217.5 | 147.5 | 131.2 | 127.4 | 131.2 | 129.9 | 138.2 | 162.2 |
| 46.5° | 1521.3 | 811.9 | 381.5 | 211.2 | 143.1 | 127.6 | 123.9 | 128.0 | 126.6 | 134.0 | 157.2 |
| 47° | 1511.4 | 803.0 | 373.3 | 205.3 | 139.0 | 123.9 | 120.4 | 124.7 | 123.3 | 130.6 | 152.6 |
| 47.5° | 1500.9 | 795.6 | 364.7 | 199.5 | 135.2 | 120.4 | 117.1 | 121.5 | 120.0 | 127.1 | 148.2 |
| 48° | 1488.7 | 788.8 | 357.4 | 193.7 | 131.5 | 117.0 | 113.8 | 118.3 | 116.8 | 123.7 | 144.0 |
| 48.5° | 1477.5 | 780.1 | 349.9 | 188.7 | 127.9 | 113.8 | 110.6 | 114.8 | 113.6 | 120.3 | 139.6 |
| 49° | 1463.2 | 771.0 | 342.2 | 183.7 | 124.3 | 110.5 | 107.4 | 111.7 | 110.5 | 116.9 | 135.7 |
| 49.5° | 1447.3 | 763.2 | 335.4 | 178.9 | 120.8 | 107.4 | 104.1 | 108.4 | 107.4 | 113.7 | 131.9 |
| 50° | 1434.3 | 753.3 | 328.9 | 174.5 | 117.5 | 104.4 | 100.9 | 105.2 | 104.3 | 110.5 | 128.4 |
| 50.5° | 1421.1 | 741.2 | 321.9 | 170.4 | 114.3 | 101.5 | 97.9 | 102.1 | 101.2 | 107.4 | 125.0 |
| 51° | 1405.5 | 729.5 | 315.6 | 166.1 | 110.9 | 98.5 | 94.9 | 99.0 | 98.3 | 104.5 | 121.5 |
| 51.5° | 1393.5 | 717.5 | 310.1 | 162.4 | 107.8 | 95.6 | 92.0 | 96.0 | 95.5 | 101.5 | 118.0 |
| 52° | 1379.8 | 705.0 | 303.9 | 158.7 | 104.8 | 93.0 | 89.3 | 93.3 | 92.7 | 98.6 | 114.7 |
| 52.5° | 1364.5 | 694.6 | 298.8 | 154.9 | 101.7 | 90.2 | 86.8 | 90.4 | 90.0 | 95.6 | 111.5 |
| 53° | 1351.1 | 683.9 | 293.8 | 151.3 | 98.7 | 87.5 | 84.2 | 87.7 | 87.4 | 92.7 | 108.4 |
| 53.5° | 1333.8 | 671.6 | 288.0 | 148.0 | 96.0 | 85.0 | 81.9 | 85.0 | 84.8 | 89.9 | 105.4 |
| 54° | 1315.8 | 659.7 | 282.9 | 144.4 | 93.2 | 82.4 | 79.4 | 82.6 | 82.2 | 87.0 | 102.6 |
| 54.5° | 1298.3 | 647.7 | 278.1 | 141.1 | 90.5 | 79.9 | 77.1 | 80.2 | 79.9 | 84.3 | 99.8 |
| 55° | 1282.5 | 636.8 | 272.9 | 137.8 | 87.9 | 77.5 | 74.8 | 77.8 | 77.5 | 81.8 | 97.2 |
| 55.5° | 1267.4 | 626.1 | 268.3 | 134.5 | 85.4 | 75.1 | 72.5 | 75.4 | 75.1 | 79.0 | 94.6 |
| 56° | 1253.4 | 614.3 | 263.9 | 131.3 | 82.8 | 72.7 | 70.3 | 73.2 | 72.8 | 76.4 | 92.0 |
| 56.5° | 1240.0 | 602.9 | 259.2 | 128.1 | 80.4 | 70.4 | 68.3 | 71.0 | 70.5 | 73.8 | 89.3 |
| 57° | 1226.8 | 592.0 | 254.2 | 124.8 | 77.9 | 68.0 | 66.2 | 69.0 | 68.3 | 71.2 | 86.7 |
| 57.5° | 1216.4 | 582.3 | 249.6 | 121.9 | 75.4 | 65.8 | 64.2 | 67.0 | 66.3 | 68.6 | 84.0 |
| 58° | 1203.5 | 572.3 | 244.0 | 118.8 | 73.1 | 63.7 | 62.1 | 64.8 | 64.2 | 66.2 | 81.3 |
| 58.5° | 1191.1 | 563.7 | 238.6 | 115.7 | 70.5 | 61.5 | 59.8 | 62.5 | 61.9 | 63.8 | 78.7 |
| 59° | 1179.8 | 555.3 | 233.6 | 112.6 | 68.0 | 59.4 | 57.2 | 60.2 | 59.6 | 61.7 | 76.0 |
| 59.5° | 1168.6 | 545.6 | 228.2 | 109.7 | 65.5 | 57.2 | 54.5 | 57.7 | 57.2 | 59.5 | 73.3 |
| 60° | 1159.2 | 535.9 | 223.1 | 106.5 | 63.2 | 54.5 | 51.7 | 54.6 | 54.6 | 57.0 | 70.6 |
| 60.5° | 1150.8 | 526.2 | 217.6 | 103.5 | 60.8 | 51.9 | 48.9 | 51.0 | 51.3 | 54.5 | 68.1 |
| 61° | 1138.0 | 516.4 | 211.8 | 100.6 | 58.7 | 49.3 | 46.1 | 47.6 | 47.8 | 52.0 | 65.6 |
| 61.5° | 1119.6 | 507.9 | 206.6 | 97.5 | 56.2 | 46.6 | 43.4 | 45.1 | 44.8 | 49.1 | 63.3 |
| 62° | 1103.8 | 498.3 | 202.2 | 94.4 | 53.9 | 44.0 | 40.1 | 41.7 | 42.1 | 45.9 | 60.9 |
| 62.5° | 1089.1 | 487.9 | 197.6 | 91.5 | 51.7 | 41.2 | 35.6 | 34.7 | 38.3 | 42.7 | 58.3 |
| 63° | 1075.3 | 476.8 | 192.9 | 88.4 | 49.4 | 38.3 | 27.0 | 27.8 | 30.6 | 39.9 | 55.6 |
| 63.5° | 1059.5 | 464.6 | 188.0 | 85.6 | 47.2 | 34.2 | 17.4 | 20.9 | 23.0 | 35.2 | 52.8 |
| 64° | 1041.7 | 451.8 | 182.2 | 82.7 | 44.6 | 27.0 | 7.9 | 13.9 | 15.3 | 28.1 | 50.0 |
| 64.5° | 1022.5 | 439.5 | 176.6 | 79.8 | 42.0 | 18.0 | 6.1 | 7.0 | 7.6 | 21.1 | 47.2 |
| 65° | 999.5 | 425.6 | 170.6 | 76.9 | 39.2 | 9.1 | 4.7 | 0.1 | 0.3 | 14.0 | 44.0 |
| 65.5° | 978.3 | 412.5 | 164.3 | 74.0 | 35.2 | 2.3 | 3.2 | 0.1 | 0.1 | 7.0 | 39.5 |
| 66° | 955.2 | 399.8 | 158.9 | 71.0 | 28.4 | 1.7 | 1.7 | 0.1 | 0.1 | 0.2 | 32.7 |
| 66.5° | 932.2 | 384.9 | 154.5 | 68.1 | 21.1 | 1.2 | 0.2 | 0.1 | 0.1 | 0.1 | 24.9 |
| 67° | 909.9 | 372.6 | 150.0 | 65.3 | 14.6 | 0.7 | 0.1 | 0.1 | 0.1 | 0.1 | 17.8 |



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 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 67.5° | 883.3 | 360.7 | 145.0 | 62.2 | 11.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 15.1 |
| 68° | 856.0 | 347.2 | 139.8 | 58.0 | 10.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 14.6 |
| 68.5° | 832.1 | 335.5 | 134.1 | 54.2 | 10.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 14.3 |
| 69° | 806.3 | 324.2 | 128.9 | 50.4 | 9.9 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 14.1 |
| 69.5° | 779.6 | 312.3 | 123.7 | 46.5 | 9.7 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 13.8 |
| 70° | 752.4 | 301.2 | 117.9 | 42.7 | 9.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 13.6 |
| 70.5° | 725.9 | 290.4 | 112.6 | 38.9 | 9.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 13.4 |
| 71° | 697.7 | 278.8 | 106.9 | 37.8 | 9.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 13.2 |
| 71.5° | 667.7 | 266.8 | 99.7 | 37.0 | 9.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 13.0 |
| 72° | 639.8 | 255.0 | 92.9 | 36.1 | 9.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 12.8 |
| 72.5° | 611.2 | 241.9 | 87.3 | 35.3 | 8.9 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 12.6 |
| 73° | 584.4 | 228.8 | 83.2 | 34.6 | 8.8 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 12.5 |
| 73.5° | 558.0 | 218.2 | 80.1 | 33.8 | 8.6 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 12.3 |
| 74° | 536.2 | 208.4 | 77.4 | 33.1 | 8.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 12.1 |
| 74.5° | 514.5 | 199.6 | 74.5 | 32.4 | 8.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 11.9 |
| 75° | 492.8 | 192.8 | 71.9 | 31.7 | 8.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 11.7 |
| 75.5° | 471.1 | 186.4 | 69.4 | 30.9 | 8.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 11.4 |
| 76° | 449.4 | 179.4 | 66.9 | 30.2 | 8.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 11.2 |
| 76.5° | 430.2 | 172.6 | 64.6 | 29.4 | 8.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 11.0 |
| 77° | 412.5 | 166.9 | 62.5 | 28.7 | 7.8 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 10.8 |
| 77.5° | 394.7 | 160.0 | 60.3 | 27.9 | 7.7 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 10.6 |
| 78° | 376.6 | 153.3 | 58.2 | 27.1 | 7.5 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 10.4 |
| 78.5° | 358.2 | 146.0 | 56.0 | 26.3 | 7.4 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 10.1 |
| 79° | 339.7 | 139.6 | 54.4 | 25.6 | 7.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 9.9 |
| 79.5° | 321.4 | 133.6 | 52.8 | 24.7 | 7.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 9.7 |
| 80° | 305.0 | 128.3 | 51.2 | 24.0 | 6.9 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 9.5 |
| 80.5° | 288.2 | 122.9 | 49.7 | 23.2 | 6.7 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 9.2 |
| 81° | 271.5 | 117.4 | 47.9 | 22.3 | 6.6 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 9.1 |
| 81.5° | 255.2 | 112.0 | 46.0 | 21.5 | 6.4 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 8.9 |
| 82° | 238.6 | 105.6 | 43.9 | 20.7 | 6.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 | 8.6 |
| 82.5° | 223.3 | 98.8 | 41.9 | 19.8 | 6.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 8.4 |
| 83° | 208.4 | 92.1 | 39.9 | 19.1 | 5.9 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 8.2 |
| 83.5° | 192.8 | 86.3 | 37.8 | 18.3 | 5.8 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 8.0 |
| 84° | 176.3 | 80.5 | 35.8 | 17.5 | 5.6 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 7.8 |
| 84.5° | 161.5 | 74.5 | 33.9 | 16.8 | 5.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 7.6 |
| 85° | 148.4 | 69.1 | 31.9 | 16.0 | 5.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 7.4 |
| 85.5° | 136.2 | 64.2 | 30.2 | 15.4 | 5.2 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 7.2 |
| 86° | 124.3 | 59.4 | 28.6 | 14.7 | 5.0 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 7.0 |
| 86.5° | 112.9 | 55.1 | 27.1 | 14.1 | 4.9 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 6.9 |
| 87° | 102.5 | 51.6 | 25.7 | 13.6 | 4.8 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 6.7 |
| 87.5° | 93.4 | 48.1 | 24.4 | 13.0 | 4.7 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 6.5 |
| 88° | 84.7 | 44.6 | 23.1 | 12.5 | 4.6 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 6.3 |
| 88.5° | 77.3 | 41.1 | 22.0 | 12.1 | 4.4 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 6.1 |
| 89° | 70.4 | 38.4 | 21.1 | 11.6 | 4.3 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 5.9 |
| 89.5° | 64.7 | 35.9 | 20.1 | 11.2 | 4.2 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 5.7 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 90° | 59.8 | 33.8 | 19.3 | 10.8 | 4.0 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 5.6 |
| 90.5° | 55.1 | 32.0 | 18.5 | 10.3 | 3.9 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 5.4 |
| 91° | 52.3 | 30.4 | 17.8 | 10.0 | 3.8 | 0.5 | 0.5 | 0.8 | 0.8 | 0.8 | 5.3 |
| 91.5° | 49.7 | 29.1 | 17.1 | 9.6 | 3.8 | 0.5 | 0.5 | 0.8 | 0.8 | 0.8 | 5.2 |
| 92° | 47.0 | 27.9 | 16.5 | 9.4 | 3.7 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 5.0 |
| 92.5° | 44.3 | 26.9 | 16.0 | 9.1 | 3.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 4.9 |
| 93° | 42.6 | 26.1 | 15.6 | 8.9 | 3.5 | 0.6 | 0.6 | 0.9 | 0.9 | 0.9 | 4.8 |
| 93.5° | 41.3 | 25.6 | 15.3 | 8.7 | 3.4 | 0.6 | 0.6 | 0.9 | 0.9 | 0.9 | 4.7 |
| 94° | 40.1 | 25.2 | 15.0 | 8.4 | 3.3 | 0.6 | 0.6 | 0.9 | 0.9 | 0.9 | 4.6 |
| 94.5° | 39.3 | 24.9 | 14.7 | 8.2 | 3.2 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 4.5 |
| 95° | 38.7 | 24.6 | 14.4 | 8.1 | 3.2 | 0.7 | 0.7 | 1.0 | 1.0 | 1.0 | 4.4 |
| 95.5° | 38.3 | 24.3 | 14.0 | 7.9 | 3.1 | 0.7 | 0.7 | 1.0 | 1.0 | 1.0 | 4.3 |
| 96° | 37.9 | 24.1 | 13.8 | 7.8 | 3.0 | 0.7 | 0.7 | 1.0 | 1.0 | 1.0 | 4.2 |
| 96.5° | 37.5 | 23.8 | 13.6 | 7.7 | 2.9 | 0.8 | 0.8 | 1.1 | 1.1 | 1.1 | 4.2 |
| 97° | 37.1 | 23.5 | 13.3 | 7.6 | 2.9 | 0.8 | 0.8 | 1.1 | 1.1 | 1.1 | 4.1 |
| 97.5° | 36.6 | 23.2 | 13.1 | 7.4 | 2.8 | 0.8 | 0.8 | 1.1 | 1.1 | 1.1 | 4.0 |
| 98° | 36.1 | 22.9 | 13.0 | 7.3 | 2.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.2 | 4.0 |
| 98.5° | 35.5 | 22.6 | 12.7 | 7.2 | 2.7 | 0.9 | 0.9 | 1.2 | 1.2 | 1.2 | 3.9 |
| 99° | 35.0 | 22.3 | 12.5 | 7.1 | 2.7 | 0.9 | 0.9 | 1.2 | 1.2 | 1.2 | 3.8 |
| 99.5° | 34.4 | 21.9 | 12.3 | 7.0 | 2.6 | 0.9 | 0.9 | 1.3 | 1.3 | 1.3 | 3.8 |
| 100° | 33.9 | 21.6 | 12.2 | 6.9 | 2.6 | 0.9 | 0.9 | 1.3 | 1.3 | 1.3 | 3.7 |
| 100.5° | 33.4 | 21.2 | 12.0 | 6.8 | 2.6 | 1.0 | 1.0 | 1.3 | 1.3 | 1.3 | 3.7 |
| 101° | 32.9 | 20.8 | 11.9 | 6.8 | 2.6 | 1.0 | 1.0 | 1.4 | 1.4 | 1.4 | 3.6 |
| 101.5° | 32.4 | 20.4 | 11.7 | 6.7 | 2.5 | 1.0 | 1.0 | 1.4 | 1.4 | 1.4 | 3.6 |
| 102° | 31.9 | 20.1 | 11.6 | 6.6 | 2.5 | 1.0 | 1.0 | 1.4 | 1.4 | 1.4 | 3.5 |
| 102.5° | 31.5 | 19.8 | 11.5 | 6.5 | 2.5 | 1.1 | 1.1 | 1.5 | 1.5 | 1.4 | 3.4 |
| 103° | 31.1 | 19.5 | 11.4 | 6.5 | 2.5 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 3.4 |
| 103.5° | 30.8 | 19.3 | 11.3 | 6.4 | 2.5 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 3.3 |
| 104° | 30.6 | 19.1 | 11.2 | 6.4 | 2.4 | 1.1 | 1.2 | 1.6 | 1.6 | 1.6 | 3.2 |
| 104.5° | 30.4 | 18.9 | 11.1 | 6.3 | 2.4 | 1.2 | 1.2 | 1.6 | 1.6 | 1.6 | 3.2 |
| 105° | 30.3 | 18.7 | 11.0 | 6.3 | 2.4 | 1.2 | 1.2 | 1.7 | 1.7 | 1.6 | 3.2 |
| 105.5° | 30.2 | 18.6 | 10.9 | 6.2 | 2.4 | 1.2 | 1.3 | 1.7 | 1.7 | 1.7 | 3.2 |
| 106° | 30.1 | 18.5 | 10.8 | 6.1 | 2.4 | 1.3 | 1.3 | 1.8 | 1.8 | 1.7 | 3.1 |
| 106.5° | 30.0 | 18.5 | 10.7 | 6.0 | 2.4 | 1.3 | 1.3 | 1.8 | 1.8 | 1.8 | 3.1 |
| 107° | 30.0 | 18.5 | 10.6 | 6.0 | 2.3 | 1.3 | 1.3 | 1.8 | 1.8 | 1.8 | 3.1 |
| 107.5° | 30.0 | 18.4 | 10.5 | 5.9 | 2.3 | 1.4 | 1.4 | 1.9 | 1.9 | 1.8 | 3.2 |
| 108° | 30.0 | 18.4 | 10.4 | 5.8 | 2.3 | 1.4 | 1.4 | 1.9 | 1.9 | 1.9 | 3.2 |
| 108.5° | 30.1 | 18.4 | 10.3 | 5.7 | 2.3 | 1.4 | 1.4 | 2.0 | 1.9 | 1.9 | 3.2 |
| 109° | 30.1 | 18.4 | 10.3 | 5.6 | 2.3 | 1.5 | 1.5 | 2.0 | 2.0 | 1.9 | 3.2 |
| 109.5° | 30.1 | 18.4 | 10.3 | 5.6 | 2.4 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 3.2 |
| 110° | 30.2 | 18.4 | 10.2 | 5.5 | 2.4 | 1.5 | 1.6 | 2.1 | 2.0 | 2.0 | 3.2 |
| 110.5° | 30.2 | 18.3 | 10.2 | 5.4 | 2.4 | 1.6 | 1.6 | 2.1 | 2.1 | 2.0 | 3.2 |
| 111° | 30.2 | 18.3 | 10.3 | 5.4 | 2.5 | 1.6 | 1.6 | 2.1 | 2.1 | 2.1 | 3.2 |
| 111.5° | 30.2 | 18.3 | 10.3 | 5.4 | 2.5 | 1.6 | 1.7 | 2.2 | 2.1 | 2.1 | 3.2 |
| 112° | 30.3 | 18.2 | 10.3 | 5.3 | 2.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.1 | 3.2 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 30.3 | 18.2 | 10.3 | 5.3 | 2.6 | 1.7 | 1.8 | 2.2 | 2.2 | 2.1 | 3.2 |
| 113° | 30.3 | 18.1 | 10.3 | 5.3 | 2.6 | 1.8 | 1.8 | 2.2 | 2.2 | 2.2 | 3.3 |
| 113.5° | 30.3 | 18.1 | 10.3 | 5.3 | 2.6 | 1.8 | 1.8 | 2.3 | 2.2 | 2.2 | 3.3 |
| 114° | 30.3 | 18.1 | 10.3 | 5.4 | 2.7 | 1.8 | 1.9 | 2.3 | 2.3 | 2.2 | 3.3 |
| 114.5° | 30.4 | 18.0 | 10.3 | 5.4 | 2.7 | 1.9 | 1.9 | 2.3 | 2.3 | 2.2 | 3.3 |
| 115° | 30.4 | 18.0 | 10.3 | 5.5 | 2.8 | 1.9 | 2.0 | 2.3 | 2.3 | 2.3 | 3.3 |
| 115.5° | 30.4 | 17.9 | 10.2 | 5.5 | 2.8 | 2.0 | 2.0 | 2.4 | 2.3 | 2.3 | 3.3 |
| 116° | 30.4 | 17.9 | 10.2 | 5.6 | 2.9 | 2.0 | 2.1 | 2.4 | 2.4 | 2.3 | 3.4 |
| 116.5° | 30.5 | 17.9 | 10.1 | 5.7 | 2.9 | 2.1 | 2.1 | 2.4 | 2.4 | 2.4 | 3.4 |
| 117° | 30.5 | 17.8 | 10.1 | 5.8 | 3.0 | 2.1 | 2.1 | 2.5 | 2.4 | 2.4 | 3.4 |
| 117.5° | 30.6 | 17.8 | 10.1 | 5.9 | 3.1 | 2.2 | 2.2 | 2.5 | 2.5 | 2.4 | 3.4 |
| 118° | 30.7 | 17.8 | 10.1 | 5.9 | 3.1 | 2.2 | 2.3 | 2.5 | 2.5 | 2.5 | 3.5 |
| 118.5° | 30.7 | 17.7 | 10.1 | 6.0 | 3.2 | 2.3 | 2.3 | 2.5 | 2.5 | 2.5 | 3.5 |
| 119° | 30.8 | 17.7 | 10.1 | 6.1 | 3.2 | 2.3 | 2.4 | 2.6 | 2.5 | 2.5 | 3.5 |
| 119.5° | 30.8 | 17.7 | 10.1 | 6.1 | 3.3 | 2.4 | 2.4 | 2.6 | 2.6 | 2.5 | 3.5 |
| 120° | 30.8 | 17.7 | 10.1 | 6.2 | 3.4 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 3.6 |
| 120.5° | 30.9 | 17.7 | 10.1 | 6.2 | 3.4 | 2.5 | 2.5 | 2.7 | 2.6 | 2.6 | 3.6 |
| 121° | 30.9 | 17.6 | 10.1 | 6.3 | 3.4 | 2.6 | 2.6 | 2.7 | 2.7 | 2.6 | 3.6 |
| 121.5° | 30.9 | 17.6 | 10.2 | 6.4 | 3.5 | 2.6 | 2.6 | 2.7 | 2.7 | 2.7 | 3.6 |
| 122° | 30.9 | 17.7 | 10.2 | 6.4 | 3.5 | 2.7 | 2.7 | 2.8 | 2.7 | 2.7 | 3.7 |
| 122.5° | 30.9 | 17.7 | 10.3 | 6.5 | 3.6 | 2.7 | 2.7 | 2.8 | 2.8 | 2.7 | 3.7 |
| 123° | 30.9 | 17.7 | 10.3 | 6.5 | 3.6 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 3.8 |
| 123.5° | 31.0 | 17.8 | 10.4 | 6.6 | 3.6 | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 | 3.8 |
| 124° | 31.0 | 17.8 | 10.4 | 6.6 | 3.7 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 3.8 |
| 124.5° | 31.1 | 17.9 | 10.5 | 6.7 | 3.7 | 2.9 | 2.9 | 3.0 | 2.9 | 2.9 | 3.9 |
| 125° | 31.1 | 18.0 | 10.5 | 6.7 | 3.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 4.0 |
| 125.5° | 31.2 | 18.1 | 10.6 | 6.7 | 3.8 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 |
| 126° | 31.3 | 18.2 | 10.7 | 6.8 | 3.8 | 3.0 | 3.1 | 3.1 | 3.1 | 3.0 | 4.1 |
| 126.5° | 31.5 | 18.3 | 10.8 | 6.8 | 3.8 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 4.2 |
| 127° | 31.6 | 18.5 | 10.9 | 6.9 | 3.8 | 3.1 | 3.2 | 3.2 | 3.2 | 3.1 | 4.2 |
| 127.5° | 31.8 | 18.6 | 11.0 | 6.9 | 3.9 | 3.2 | 3.2 | 3.3 | 3.2 | 3.2 | 4.3 |
| 128° | 32.0 | 18.7 | 11.0 | 6.9 | 3.9 | 3.2 | 3.2 | 3.3 | 3.3 | 3.2 | 4.3 |
| 128.5° | 32.3 | 18.8 | 11.1 | 7.0 | 3.9 | 3.3 | 3.3 | 3.4 | 3.3 | 3.3 | 4.4 |
| 129° | 32.5 | 19.0 | 11.2 | 7.0 | 4.0 | 3.3 | 3.3 | 3.4 | 3.4 | 3.3 | 4.4 |
| 129.5° | 32.7 | 19.1 | 11.3 | 7.0 | 4.0 | 3.3 | 3.4 | 3.5 | 3.4 | 3.4 | 4.5 |
| 130° | 33.0 | 19.3 | 11.4 | 7.0 | 4.0 | 3.4 | 3.4 | 3.5 | 3.5 | 3.4 | 4.5 |
| 130.5° | 33.2 | 19.4 | 11.4 | 7.0 | 4.0 | 3.4 | 3.5 | 3.6 | 3.6 | 3.5 | 4.5 |
| 131° | 33.5 | 19.6 | 11.5 | 7.1 | 4.1 | 3.5 | 3.5 | 3.6 | 3.6 | 3.5 | 4.6 |
| 131.5° | 33.8 | 19.7 | 11.6 | 7.1 | 4.1 | 3.5 | 3.6 | 3.7 | 3.7 | 3.6 | 4.6 |
| 132° | 34.0 | 19.9 | 11.7 | 7.1 | 4.1 | 3.5 | 3.6 | 3.8 | 3.7 | 3.6 | 4.6 |
| 132.5° | 34.2 | 20.0 | 11.8 | 7.2 | 4.2 | 3.6 | 3.6 | 3.8 | 3.8 | 3.7 | 4.7 |
| 133° | 34.5 | 20.2 | 11.8 | 7.2 | 4.2 | 3.6 | 3.7 | 3.9 | 3.8 | 3.8 | 4.7 |
| 133.5° | 34.7 | 20.3 | 11.9 | 7.2 | 4.2 | 3.7 | 3.7 | 3.9 | 3.9 | 3.8 | 4.7 |
| 134° | 35.0 | 20.4 | 11.9 | 7.2 | 4.2 | 3.7 | 3.8 | 4.0 | 3.9 | 3.9 | 4.8 |
| 134.5° | 35.2 | 20.5 | 12.0 | 7.2 | 4.2 | 3.7 | 3.8 | 4.0 | 4.0 | 3.9 | 4.8 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 135° | 35.4 | 20.6 | 12.0 | 7.2 | 4.3 | 3.8 | 3.8 | 4.1 | 4.0 | 4.0 | 4.8 |
| 135.5° | 35.6 | 20.7 | 12.1 | 7.3 | 4.3 | 3.8 | 3.8 | 4.1 | 4.1 | 4.0 | 4.8 |
| 136° | 35.8 | 20.7 | 12.1 | 7.3 | 4.3 | 3.8 | 3.9 | 4.2 | 4.2 | 4.1 | 4.9 |
| 136.5° | 36.0 | 20.8 | 12.1 | 7.3 | 4.3 | 3.8 | 3.9 | 4.2 | 4.2 | 4.1 | 4.9 |
| 137° | 36.2 | 20.8 | 12.1 | 7.3 | 4.3 | 3.9 | 3.9 | 4.3 | 4.2 | 4.2 | 4.9 |
| 137.5° | 36.3 | 20.9 | 12.2 | 7.3 | 4.3 | 3.9 | 4.0 | 4.3 | 4.3 | 4.2 | 4.9 |
| 138° | 36.4 | 20.9 | 12.2 | 7.3 | 4.3 | 3.9 | 4.0 | 4.3 | 4.3 | 4.3 | 4.9 |
| 138.5° | 36.5 | 20.9 | 12.2 | 7.3 | 4.4 | 3.9 | 4.0 | 4.4 | 4.4 | 4.3 | 5.0 |
| 139° | 36.6 | 20.9 | 12.2 | 7.2 | 4.4 | 4.0 | 4.1 | 4.4 | 4.4 | 4.4 | 5.0 |
| 139.5° | 36.6 | 20.9 | 12.2 | 7.2 | 4.4 | 4.0 | 4.1 | 4.5 | 4.5 | 4.4 | 5.0 |
| 140° | 36.6 | 20.9 | 12.1 | 7.2 | 4.4 | 4.0 | 4.1 | 4.5 | 4.5 | 4.4 | 5.0 |
| 140.5° | 36.6 | 20.9 | 12.1 | 7.2 | 4.4 | 4.0 | 4.1 | 4.5 | 4.5 | 4.5 | 5.0 |
| 141° | 36.5 | 20.8 | 12.1 | 7.2 | 4.4 | 4.1 | 4.1 | 4.6 | 4.6 | 4.5 | 5.0 |
| 141.5° | 36.4 | 20.8 | 12.0 | 7.1 | 4.4 | 4.1 | 4.2 | 4.6 | 4.6 | 4.5 | 5.0 |
| 142° | 36.3 | 20.7 | 12.0 | 7.1 | 4.4 | 4.1 | 4.2 | 4.6 | 4.6 | 4.6 | 5.1 |
| 142.5° | 36.1 | 20.7 | 11.9 | 7.1 | 4.4 | 4.1 | 4.2 | 4.7 | 4.7 | 4.6 | 5.1 |
| 143° | 35.9 | 20.6 | 11.8 | 7.0 | 4.4 | 4.1 | 4.2 | 4.7 | 4.7 | 4.6 | 5.1 |
| 143.5° | 35.7 | 20.5 | 11.7 | 7.0 | 4.4 | 4.1 | 4.2 | 4.7 | 4.7 | 4.7 | 5.1 |
| 144° | 35.4 | 20.4 | 11.7 | 6.9 | 4.4 | 4.1 | 4.2 | 4.7 | 4.7 | 4.7 | 5.1 |
| 144.5° | 35.1 | 20.3 | 11.6 | 6.9 | 4.4 | 4.1 | 4.2 | 4.7 | 4.7 | 4.7 | 5.1 |
| 145° | 34.8 | 20.1 | 11.5 | 6.8 | 4.3 | 4.1 | 4.2 | 4.8 | 4.8 | 4.7 | 5.0 |
| 145.5° | 34.4 | 20.0 | 11.4 | 6.8 | 4.3 | 4.2 | 4.2 | 4.8 | 4.8 | 4.7 | 5.0 |
| 146° | 33.9 | 19.9 | 11.3 | 6.7 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 5.0 |
| 146.5° | 33.5 | 19.7 | 11.2 | 6.7 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 5.0 |
| 147° | 32.9 | 19.6 | 11.1 | 6.6 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 5.0 |
| 147.5° | 32.4 | 19.4 | 11.0 | 6.5 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 5.0 |
| 148° | 31.8 | 19.2 | 10.9 | 6.5 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 4.9 |
| 148.5° | 31.2 | 19.0 | 10.8 | 6.4 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 4.9 |
| 149° | 30.5 | 18.8 | 10.6 | 6.3 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 4.9 |
| 149.5° | 29.8 | 18.5 | 10.5 | 6.3 | 4.3 | 4.2 | 4.3 | 4.8 | 4.8 | 4.8 | 4.8 |
| 150° | 29.1 | 18.2 | 10.4 | 6.2 | 4.2 | 4.2 | 4.3 | 4.8 | 4.8 | 4.7 | 4.8 |
| 150.5° | 28.4 | 18.0 | 10.3 | 6.1 | 4.2 | 4.2 | 4.3 | 4.7 | 4.8 | 4.7 | 4.8 |
| 151° | 27.6 | 17.7 | 10.1 | 6.1 | 4.2 | 4.3 | 4.3 | 4.7 | 4.7 | 4.7 | 4.7 |
| 151.5° | 26.9 | 17.4 | 10.0 | 6.0 | 4.2 | 4.3 | 4.4 | 4.7 | 4.7 | 4.7 | 4.7 |
| 152° | 26.0 | 17.1 | 9.9 | 5.9 | 4.2 | 4.3 | 4.4 | 4.7 | 4.7 | 4.7 | 4.7 |
| 152.5° | 25.3 | 16.8 | 9.7 | 5.8 | 4.2 | 4.3 | 4.4 | 4.7 | 4.7 | 4.7 | 4.6 |
| 153° | 24.4 | 16.4 | 9.6 | 5.8 | 4.1 | 4.3 | 4.4 | 4.7 | 4.7 | 4.7 | 4.6 |
| 153.5° | 23.6 | 16.0 | 9.4 | 5.7 | 4.1 | 4.3 | 4.4 | 4.7 | 4.7 | 4.7 | 4.5 |
| 154° | 22.8 | 15.7 | 9.2 | 5.6 | 4.1 | 4.3 | 4.3 | 4.6 | 4.7 | 4.6 | 4.5 |
| 154.5° | 22.0 | 15.3 | 9.1 | 5.5 | 4.1 | 4.2 | 4.4 | 4.6 | 4.6 | 4.6 | 4.5 |
| 155° | 21.1 | 14.8 | 8.9 | 5.4 | 4.1 | 4.2 | 4.4 | 4.6 | 4.6 | 4.6 | 4.5 |
| 155.5° | 20.3 | 14.4 | 8.7 | 5.3 | 4.1 | 4.3 | 4.4 | 4.6 | 4.6 | 4.5 | 4.4 |
| 156° | 19.5 | 14.0 | 8.5 | 5.1 | 4.1 | 4.3 | 4.4 | 4.6 | 4.5 | 4.5 | 4.4 |
| 156.5° | 18.7 | 13.6 | 8.3 | 5.0 | 4.1 | 4.3 | 4.4 | 4.5 | 4.5 | 4.5 | 4.4 |
| 157° | 17.9 | 13.1 | 8.1 | 4.9 | 4.1 | 4.3 | 4.4 | 4.5 | 4.5 | 4.5 | 4.4 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 157.5° | 17.1 | 12.7 | 7.9 | 4.8 | 4.1 | 4.3 | 4.4 | 4.5 | 4.5 | 4.5 | 4.4 |
| 158° | 16.3 | 12.2 | 7.7 | 4.7 | 4.1 | 4.3 | 4.4 | 4.5 | 4.5 | 4.5 | 4.3 |
| 158.5° | 15.5 | 11.7 | 7.5 | 4.6 | 4.1 | 4.4 | 4.5 | 4.5 | 4.5 | 4.4 | 4.3 |
| 159° | 14.8 | 11.3 | 7.3 | 4.4 | 4.2 | 4.4 | 4.5 | 4.5 | 4.5 | 4.4 | 4.3 |
| 159.5° | 14.0 | 10.8 | 7.0 | 4.3 | 4.2 | 4.4 | 4.5 | 4.5 | 4.5 | 4.4 | 4.3 |
| 160° | 13.3 | 10.3 | 6.8 | 4.2 | 4.2 | 4.4 | 4.5 | 4.5 | 4.4 | 4.4 | 4.3 |
| 160.5° | 12.6 | 9.8 | 6.5 | 4.2 | 4.2 | 4.4 | 4.5 | 4.4 | 4.4 | 4.4 | 4.3 |
| 161° | 11.9 | 9.3 | 6.2 | 4.2 | 4.2 | 4.4 | 4.5 | 4.4 | 4.4 | 4.4 | 4.2 |
| 161.5° | 11.2 | 8.8 | 5.9 | 4.1 | 4.2 | 4.4 | 4.5 | 4.4 | 4.4 | 4.3 | 4.2 |
| 162° | 10.5 | 8.4 | 5.7 | 4.1 | 4.2 | 4.4 | 4.5 | 4.4 | 4.4 | 4.3 | 4.2 |
| 162.5° | 9.8 | 7.9 | 5.4 | 4.0 | 4.2 | 4.4 | 4.5 | 4.3 | 4.3 | 4.3 | 4.2 |
| 163° | 9.2 | 7.4 | 5.1 | 4.0 | 4.2 | 4.4 | 4.5 | 4.3 | 4.3 | 4.3 | 4.1 |
| 163.5° | 8.6 | 7.0 | 4.8 | 4.0 | 4.2 | 4.4 | 4.5 | 4.3 | 4.3 | 4.2 | 4.1 |
| 164° | 8.1 | 6.5 | 4.7 | 4.0 | 4.2 | 4.4 | 4.6 | 4.3 | 4.3 | 4.2 | 4.1 |
| 164.5° | 7.5 | 6.1 | 4.5 | 4.0 | 4.3 | 4.5 | 4.6 | 4.2 | 4.2 | 4.2 | 4.1 |
| 165° | 7.0 | 5.8 | 4.4 | 4.1 | 4.3 | 4.5 | 4.6 | 4.2 | 4.2 | 4.2 | 4.1 |
| 165.5° | 6.6 | 5.5 | 4.2 | 4.2 | 4.4 | 4.6 | 4.7 | 4.2 | 4.2 | 4.2 | 4.1 |
| 166° | 6.1 | 5.1 | 4.1 | 4.2 | 4.4 | 4.6 | 4.7 | 4.2 | 4.2 | 4.2 | 4.1 |
| 166.5° | 5.7 | 4.8 | 4.1 | 4.3 | 4.5 | 4.7 | 4.8 | 4.2 | 4.2 | 4.2 | 4.1 |
| 167° | 5.4 | 4.5 | 4.2 | 4.3 | 4.5 | 4.7 | 4.8 | 4.2 | 4.2 | 4.2 | 4.1 |
| 167.5° | 5.0 | 4.3 | 4.2 | 4.4 | 4.5 | 4.7 | 4.9 | 4.2 | 4.2 | 4.2 | 4.1 |
| 168° | 4.6 | 4.1 | 4.3 | 4.4 | 4.6 | 4.7 | 4.9 | 4.2 | 4.2 | 4.2 | 4.1 |
| 168.5° | 4.2 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 4.9 | 4.2 | 4.2 | 4.2 | 4.1 |
| 169° | 4.0 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 4.9 | 4.2 | 4.2 | 4.1 | 4.1 |
| 169.5° | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 4.9 | 4.1 | 4.1 | 4.1 | 4.0 |
| 170° | 4.0 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5.0 | 4.1 | 4.1 | 4.1 | 4.0 |
| 170.5° | 4.0 | 4.2 | 4.3 | 4.5 | 4.7 | 4.8 | 5.0 | 4.1 | 4.1 | 4.0 | 4.0 |
| 171° | 4.0 | 4.2 | 4.4 | 4.5 | 4.7 | 4.9 | 5.0 | 4.1 | 4.1 | 4.0 | 3.9 |
| 171.5° | 4.0 | 4.2 | 4.4 | 4.5 | 4.7 | 4.9 | 5.1 | 4.1 | 4.1 | 4.0 | 3.9 |
| 172° | 4.1 | 4.3 | 4.5 | 4.6 | 4.8 | 5.0 | 5.1 | 4.1 | 4.1 | 4.0 | 3.9 |
| 172.5° | 4.2 | 4.4 | 4.5 | 4.7 | 4.8 | 5.1 | 5.2 | 4.1 | 4.0 | 4.0 | 3.9 |
| 173° | 4.3 | 4.4 | 4.6 | 4.8 | 4.9 | 5.1 | 5.3 | 4.0 | 4.0 | 3.9 | 3.8 |
| 173.5° | 4.3 | 4.5 | 4.7 | 4.8 | 5.0 | 5.2 | 5.4 | 4.0 | 4.0 | 3.9 | 3.8 |
| 174° | 4.4 | 4.5 | 4.7 | 4.9 | 5.0 | 5.2 | 5.4 | 4.0 | 4.0 | 3.9 | 3.8 |
| 174.5° | 4.4 | 4.5 | 4.7 | 4.8 | 5.0 | 5.2 | 5.4 | 4.0 | 4.0 | 3.9 | 3.8 |
| 175° | 4.4 | 4.5 | 4.7 | 4.8 | 5.0 | 5.2 | 5.3 | 3.9 | 3.9 | 3.9 | 3.8 |
| 175.5° | 4.4 | 4.5 | 4.7 | 4.8 | 5.0 | 5.2 | 5.3 | 3.9 | 3.9 | 3.9 | 3.7 |
| 176° | 4.4 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 | 3.9 | 3.9 | 3.8 | 3.7 |
| 176.5° | 4.4 | 4.5 | 4.7 | 4.8 | 4.9 | 5.1 | 5.3 | 3.8 | 3.8 | 3.8 | 3.7 |
| 177° | 4.4 | 4.5 | 4.6 | 4.8 | 4.9 | 5.1 | 5.2 | 3.8 | 3.8 | 3.7 | 3.6 |
| 177.5° | 4.3 | 4.5 | 4.6 | 4.7 | 4.9 | 5.0 | 5.2 | 3.8 | 3.8 | 3.7 | 3.6 |
| 178° | 4.3 | 4.4 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 3.7 | 3.7 | 3.7 | 3.6 |
| 178.5° | 4.3 | 4.4 | 4.5 | 4.6 | 4.8 | 4.9 | 5.1 | 3.7 | 3.7 | 3.6 | 3.5 |
| 179° | 4.2 | 4.4 | 4.5 | 4.6 | 4.7 | 4.9 | 5.0 | 3.7 | 3.6 | 3.6 | 3.5 |
| 179.5° | 4.2 | 4.3 | 4.4 | 4.5 | 4.7 | 4.8 | 5.0 | 3.6 | 3.6 | 3.6 | 3.5 |



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CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
| 180° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |



REPORT NUMBER: P973039

CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 | 3476.1 |
| 0.5° | 3430.8 | 3435.7 | 3444.5 | 3454.5 | 3463.8 | 3475.0 | 3487.4 | 3498.7 | 3506.6 | 3514.8 | 3525.3 |
| 1° | 3413.9 | 3416.3 | 3428.0 | 3443.2 | 3456.9 | 3475.8 | 3499.2 | 3523.0 | 3545.6 | 3556.8 | 3565.6 |
| 1.5° | 3437.6 | 3427.7 | 3421.9 | 3428.9 | 3448.9 | 3476.6 | 3507.6 | 3545.1 | 3562.3 | 3557.7 | 3540.8 |
| 2° | 3471.0 | 3449.6 | 3435.5 | 3425.0 | 3439.9 | 3474.1 | 3520.3 | 3556.0 | 3546.9 | 3512.0 | 3463.2 |
| 2.5° | 3504.1 | 3478.4 | 3457.8 | 3431.5 | 3432.6 | 3472.3 | 3529.0 | 3554.1 | 3508.5 | 3427.5 | 3339.1 |
| 3° | 3529.4 | 3506.5 | 3474.7 | 3442.3 | 3427.8 | 3468.4 | 3535.1 | 3536.0 | 3441.0 | 3324.8 | 3224.2 |
| 3.5° | 3533.9 | 3522.9 | 3493.6 | 3454.2 | 3424.8 | 3468.4 | 3542.1 | 3503.0 | 3368.9 | 3232.3 | 3159.9 |
| 4° | 3497.7 | 3525.7 | 3511.5 | 3466.0 | 3429.1 | 3469.0 | 3545.0 | 3471.9 | 3294.6 | 3161.9 | 3135.9 |
| 4.5° | 3437.2 | 3509.6 | 3528.1 | 3486.2 | 3431.8 | 3466.6 | 3543.5 | 3424.5 | 3216.2 | 3134.6 | 3150.0 |
| 5° | 3387.8 | 3468.3 | 3532.6 | 3501.6 | 3436.2 | 3462.9 | 3540.6 | 3367.9 | 3167.3 | 3135.9 | 3161.9 |
| 5.5° | 3363.7 | 3419.2 | 3521.2 | 3512.9 | 3430.2 | 3459.2 | 3527.4 | 3310.7 | 3134.3 | 3149.9 | 3128.0 |
| 6° | 3367.0 | 3381.7 | 3493.4 | 3515.0 | 3430.4 | 3453.9 | 3511.0 | 3249.0 | 3121.4 | 3156.3 | 3043.1 |
| 6.5° | 3380.7 | 3366.0 | 3452.9 | 3514.8 | 3430.0 | 3446.8 | 3491.4 | 3190.3 | 3127.0 | 3126.8 | 2932.4 |
| 7° | 3368.6 | 3369.0 | 3410.7 | 3514.0 | 3428.7 | 3442.2 | 3466.7 | 3152.2 | 3135.7 | 3048.4 | 2845.3 |
| 7.5° | 3324.0 | 3372.8 | 3369.7 | 3508.1 | 3431.3 | 3437.3 | 3438.1 | 3121.9 | 3138.9 | 2945.8 | 2824.7 |
| 8° | 3248.4 | 3369.4 | 3349.1 | 3491.3 | 3435.9 | 3428.1 | 3407.5 | 3100.5 | 3117.8 | 2861.2 | 2874.5 |
| 8.5° | 3144.7 | 3342.8 | 3340.1 | 3466.2 | 3435.7 | 3418.8 | 3374.2 | 3094.1 | 3075.4 | 2809.0 | 2972.0 |
| 9° | 3038.1 | 3294.5 | 3341.4 | 3432.3 | 3436.8 | 3412.0 | 3340.2 | 3093.6 | 3005.3 | 2815.0 | 3066.2 |
| 9.5° | 2973.8 | 3221.7 | 3339.9 | 3398.6 | 3437.5 | 3402.5 | 3296.4 | 3090.6 | 2929.4 | 2856.1 | 3117.5 |
| 10° | 2945.8 | 3129.2 | 3336.2 | 3360.3 | 3436.0 | 3394.8 | 3262.1 | 3096.5 | 2856.7 | 2937.8 | 3104.4 |
| 10.5° | 2942.7 | 3041.7 | 3320.8 | 3331.4 | 3435.5 | 3388.2 | 3229.1 | 3093.9 | 2793.6 | 3019.7 | 3044.4 |
| 11° | 2930.9 | 2964.4 | 3291.9 | 3307.1 | 3434.4 | 3377.9 | 3191.7 | 3080.7 | 2773.2 | 3072.5 | 2992.7 |
| 11.5° | 2897.0 | 2920.6 | 3247.2 | 3288.4 | 3429.4 | 3370.9 | 3160.2 | 3057.6 | 2782.1 | 3093.0 | 2978.4 |
| 12° | 2806.2 | 2899.7 | 3188.1 | 3279.9 | 3423.5 | 3360.3 | 3124.8 | 3024.6 | 2815.9 | 3059.8 | 3027.7 |
| 12.5° | 2690.7 | 2895.5 | 3122.3 | 3272.7 | 3414.9 | 3348.5 | 3091.3 | 2975.4 | 2868.0 | 3010.3 | 3122.1 |
| 13° | 2569.7 | 2889.1 | 3043.5 | 3265.9 | 3405.3 | 3336.1 | 3062.6 | 2926.7 | 2923.4 | 2970.4 | 3254.2 |
| 13.5° | 2483.0 | 2859.3 | 2969.2 | 3254.5 | 3384.2 | 3323.5 | 3039.4 | 2870.2 | 2975.5 | 2956.3 | 3355.5 |
| 14° | 2433.9 | 2798.9 | 2909.8 | 3243.6 | 3370.0 | 3311.4 | 3015.1 | 2809.3 | 3005.6 | 2978.7 | 3391.9 |
| 14.5° | 2405.5 | 2710.9 | 2857.2 | 3225.9 | 3349.0 | 3293.5 | 2997.2 | 2766.9 | 3013.3 | 3038.9 | 3374.3 |
| 15° | 2369.2 | 2597.9 | 2825.1 | 3204.7 | 3329.3 | 3279.4 | 2978.8 | 2729.0 | 2997.8 | 3130.8 | 3321.4 |
| 15.5° | 2305.7 | 2499.2 | 2808.6 | 3177.9 | 3306.6 | 3265.6 | 2966.8 | 2706.1 | 2960.0 | 3218.1 | 3271.4 |
| 16° | 2208.7 | 2420.9 | 2794.1 | 3148.2 | 3282.9 | 3251.4 | 2953.2 | 2696.4 | 2922.7 | 3285.0 | 3263.5 |
| 16.5° | 2096.7 | 2370.5 | 2780.9 | 3114.4 | 3258.3 | 3237.1 | 2941.8 | 2700.8 | 2893.7 | 3312.7 | 3305.4 |
| 17° | 1988.1 | 2340.4 | 2763.8 | 3078.4 | 3234.9 | 3219.4 | 2930.7 | 2715.0 | 2883.3 | 3304.2 | 3368.7 |
| 17.5° | 1897.9 | 2313.5 | 2726.3 | 3029.8 | 3208.1 | 3202.8 | 2915.9 | 2731.3 | 2889.8 | 3269.8 | 3431.6 |
| 18° | 1830.9 | 2270.9 | 2668.8 | 2977.9 | 3179.7 | 3186.6 | 2904.4 | 2756.5 | 2918.7 | 3218.8 | 3477.1 |
| 18.5° | 1774.1 | 2207.4 | 2592.4 | 2921.6 | 3150.8 | 3168.8 | 2887.9 | 2780.0 | 2963.2 | 3185.9 | 3502.6 |
| 19° | 1715.5 | 2119.9 | 2504.3 | 2857.7 | 3119.0 | 3152.5 | 2874.8 | 2798.2 | 3011.1 | 3181.6 | 3522.7 |
| 19.5° | 1643.9 | 2024.0 | 2421.9 | 2800.8 | 3093.1 | 3132.4 | 2858.8 | 2815.2 | 3065.5 | 3206.7 | 3550.4 |
| 20° | 1560.5 | 1928.7 | 2351.4 | 2746.8 | 3063.5 | 3117.0 | 2836.6 | 2824.3 | 3103.9 | 3251.8 | 3607.6 |
| 20.5° | 1464.0 | 1850.0 | 2288.4 | 2699.5 | 3039.6 | 3096.8 | 2815.6 | 2817.8 | 3127.6 | 3301.5 | 3700.6 |
| 21° | 1370.3 | 1785.6 | 2244.3 | 2660.0 | 3015.5 | 3077.1 | 2790.1 | 2803.4 | 3138.5 | 3349.6 | 3828.4 |
| 21.5° | 1312.7 | 1734.0 | 2212.7 | 2627.4 | 2990.5 | 3052.1 | 2760.2 | 2784.4 | 3129.0 | 3383.1 | 3963.8 |
| 22° | 1255.0 | 1685.7 | 2181.4 | 2598.5 | 2968.6 | 3028.6 | 2732.8 | 2761.4 | 3103.4 | 3405.2 | 4100.3 |



REPORT NUMBER: P973039

CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1197.4 | 1628.9 | 2146.9 | 2577.7 | 2949.5 | 3007.6 | 2707.4 | 2741.3 | 3066.1 | 3417.5 | 4216.3 |
| 23° | 1139.8 | 1569.2 | 2105.0 | 2558.0 | 2929.3 | 2984.7 | 2678.7 | 2720.6 | 3031.0 | 3433.6 | 4284.3 |
| 23.5° | 1083.6 | 1504.3 | 2051.7 | 2541.1 | 2913.4 | 2965.1 | 2649.2 | 2708.0 | 3005.6 | 3465.0 | 4336.7 |
| 24° | 1051.2 | 1430.5 | 1987.1 | 2520.2 | 2893.8 | 2942.2 | 2616.8 | 2696.3 | 2994.3 | 3526.5 | 4397.5 |
| 24.5° | 1023.0 | 1359.8 | 1922.8 | 2493.5 | 2874.8 | 2922.9 | 2582.5 | 2689.0 | 2999.8 | 3606.5 | 4464.7 |
| 25° | 996.1 | 1292.8 | 1856.5 | 2460.6 | 2856.3 | 2906.2 | 2553.7 | 2686.0 | 3017.2 | 3704.5 | 4554.5 |
| 25.5° | 968.5 | 1248.3 | 1797.4 | 2419.3 | 2839.0 | 2887.1 | 2524.9 | 2689.9 | 3044.6 | 3817.3 | 4662.3 |
| 26° | 942.2 | 1203.8 | 1741.3 | 2375.0 | 2819.2 | 2870.9 | 2495.9 | 2703.1 | 3070.1 | 3899.0 | 4739.9 |
| 26.5° | 915.8 | 1159.4 | 1690.0 | 2323.9 | 2803.2 | 2854.9 | 2475.7 | 2714.7 | 3092.5 | 3964.0 | 4791.9 |
| 27° | 889.7 | 1114.9 | 1646.4 | 2278.5 | 2784.5 | 2842.0 | 2456.1 | 2736.4 | 3116.8 | 4016.7 | 4817.6 |
| 27.5° | 863.2 | 1070.9 | 1602.6 | 2227.1 | 2766.7 | 2825.8 | 2439.3 | 2757.7 | 3131.3 | 4047.3 | 4825.4 |
| 28° | 835.4 | 1043.7 | 1559.9 | 2182.0 | 2746.2 | 2813.0 | 2426.8 | 2772.9 | 3142.3 | 4071.9 | 4833.3 |
| 28.5° | 809.4 | 1019.0 | 1520.4 | 2146.7 | 2728.5 | 2798.2 | 2413.0 | 2790.6 | 3157.2 | 4108.1 | 4852.3 |
| 29° | 783.5 | 995.4 | 1477.7 | 2112.1 | 2706.4 | 2786.4 | 2403.4 | 2802.3 | 3175.2 | 4152.7 | 4866.9 |
| 29.5° | 756.9 | 970.6 | 1434.2 | 2081.5 | 2685.6 | 2772.0 | 2395.4 | 2802.6 | 3193.5 | 4206.8 | 4864.5 |
| 30° | 731.1 | 947.2 | 1394.7 | 2058.0 | 2665.3 | 2758.4 | 2386.0 | 2798.5 | 3226.8 | 4271.3 | 4843.0 |
| 30.5° | 704.9 | 924.2 | 1353.6 | 2033.4 | 2643.1 | 2743.7 | 2379.4 | 2785.8 | 3267.0 | 4317.1 | 4809.3 |
| 31° | 679.1 | 900.1 | 1313.3 | 2008.6 | 2620.0 | 2731.0 | 2373.1 | 2768.3 | 3309.1 | 4337.0 | 4775.3 |
| 31.5° | 654.6 | 876.2 | 1276.0 | 1986.3 | 2598.2 | 2718.1 | 2367.5 | 2746.6 | 3372.9 | 4344.7 | 4748.4 |
| 32° | 631.2 | 852.7 | 1240.8 | 1960.6 | 2574.0 | 2705.2 | 2366.5 | 2721.0 | 3426.9 | 4337.6 | 4728.2 |
| 32.5° | 607.1 | 828.4 | 1215.0 | 1930.9 | 2554.6 | 2693.1 | 2365.5 | 2699.7 | 3467.6 | 4331.6 | 4702.9 |
| 33° | 584.5 | 804.7 | 1189.2 | 1905.6 | 2533.8 | 2683.1 | 2366.9 | 2686.2 | 3504.7 | 4333.0 | 4670.7 |
| 33.5° | 563.0 | 781.7 | 1163.3 | 1875.5 | 2515.5 | 2672.7 | 2366.6 | 2678.7 | 3530.5 | 4335.5 | 4629.0 |
| 34° | 541.7 | 758.3 | 1137.5 | 1848.4 | 2494.5 | 2663.4 | 2366.9 | 2675.1 | 3544.1 | 4334.4 | 4584.9 |
| 34.5° | 521.9 | 734.5 | 1111.9 | 1824.3 | 2474.4 | 2656.1 | 2366.4 | 2677.5 | 3557.4 | 4325.8 | 4544.5 |
| 35° | 503.1 | 712.0 | 1093.8 | 1800.7 | 2456.8 | 2648.0 | 2366.7 | 2684.3 | 3565.8 | 4306.1 | 4511.7 |
| 35.5° | 483.8 | 688.3 | 1077.0 | 1778.7 | 2442.6 | 2640.3 | 2364.3 | 2688.1 | 3570.0 | 4276.1 | 4476.7 |
| 36° | 467.0 | 666.9 | 1063.1 | 1761.6 | 2429.1 | 2632.0 | 2364.1 | 2692.4 | 3582.2 | 4242.5 | 4433.7 |
| 36.5° | 450.3 | 646.2 | 1049.1 | 1743.1 | 2418.0 | 2626.2 | 2362.6 | 2698.0 | 3600.8 | 4210.3 | 4383.2 |
| 37° | 433.0 | 625.4 | 1034.4 | 1727.6 | 2408.4 | 2621.1 | 2356.4 | 2697.8 | 3617.9 | 4180.3 | 4333.0 |
| 37.5° | 417.3 | 606.8 | 1021.0 | 1714.5 | 2398.7 | 2615.0 | 2349.0 | 2698.8 | 3634.4 | 4152.5 | 4282.5 |
| 38° | 402.3 | 590.3 | 1007.2 | 1698.6 | 2391.9 | 2610.3 | 2339.5 | 2701.3 | 3647.5 | 4122.5 | 4244.9 |
| 38.5° | 387.3 | 573.6 | 993.4 | 1685.7 | 2386.5 | 2606.7 | 2328.1 | 2703.7 | 3652.3 | 4094.4 | 4212.4 |
| 39° | 373.5 | 557.6 | 980.6 | 1673.9 | 2382.8 | 2602.4 | 2319.1 | 2706.5 | 3654.7 | 4062.8 | 4173.5 |
| 39.5° | 359.5 | 542.9 | 965.5 | 1658.6 | 2377.9 | 2597.5 | 2306.6 | 2713.2 | 3651.9 | 4027.8 | 4137.0 |
| 40° | 345.9 | 528.6 | 951.8 | 1647.3 | 2373.4 | 2594.5 | 2298.5 | 2719.6 | 3642.1 | 3999.5 | 4102.4 |
| 40.5° | 332.7 | 515.3 | 938.3 | 1635.2 | 2365.3 | 2586.1 | 2290.3 | 2726.8 | 3632.7 | 3975.6 | 4069.8 |
| 41° | 319.9 | 503.1 | 923.6 | 1621.1 | 2356.9 | 2578.5 | 2282.5 | 2735.9 | 3623.9 | 3947.0 | 4039.6 |
| 41.5° | 308.0 | 490.9 | 909.6 | 1607.8 | 2348.5 | 2570.3 | 2276.4 | 2742.3 | 3616.1 | 3919.8 | 4016.9 |
| 42° | 297.1 | 480.2 | 896.6 | 1595.1 | 2337.3 | 2562.8 | 2270.1 | 2748.9 | 3612.9 | 3891.2 | 3997.4 |
| 42.5° | 285.9 | 469.0 | 882.1 | 1579.8 | 2325.3 | 2556.8 | 2265.6 | 2758.9 | 3609.8 | 3862.0 | 3976.5 |
| 43° | 275.3 | 458.6 | 868.5 | 1566.5 | 2313.7 | 2551.8 | 2262.7 | 2764.8 | 3600.2 | 3831.9 | 3950.9 |
| 43.5° | 265.9 | 448.8 | 856.0 | 1553.8 | 2302.6 | 2549.2 | 2262.3 | 2770.6 | 3587.5 | 3804.0 | 3927.3 |
| 44° | 256.4 | 439.1 | 842.3 | 1538.1 | 2292.3 | 2547.0 | 2264.4 | 2782.2 | 3569.2 | 3780.1 | 3905.2 |
| 44.5° | 247.4 | 429.4 | 829.3 | 1525.1 | 2283.1 | 2544.0 | 2266.7 | 2790.1 | 3543.1 | 3759.0 | 3891.7 |



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CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 45° | 239.2 | 420.9 | 818.7 | 1513.1 | 2274.4 | 2542.8 | 2268.8 | 2798.0 | 3517.6 | 3737.7 | 3880.1 |
| 45.5° | 231.4 | 412.1 | 808.2 | 1498.2 | 2266.6 | 2539.4 | 2271.1 | 2809.3 | 3496.6 | 3714.8 | 3868.8 |
| 46° | 224.0 | 403.3 | 799.3 | 1486.3 | 2258.4 | 2536.9 | 2272.6 | 2816.2 | 3476.8 | 3688.2 | 3858.2 |
| 46.5° | 217.4 | 395.1 | 791.8 | 1473.5 | 2248.9 | 2532.6 | 2272.1 | 2819.6 | 3460.7 | 3661.4 | 3850.5 |
| 47° | 210.9 | 387.1 | 784.1 | 1460.4 | 2239.6 | 2527.8 | 2271.1 | 2826.8 | 3444.6 | 3635.0 | 3841.3 |
| 47.5° | 205.0 | 378.6 | 778.3 | 1448.9 | 2230.5 | 2523.4 | 2269.2 | 2830.2 | 3426.2 | 3610.4 | 3832.6 |
| 48° | 199.8 | 371.3 | 772.6 | 1435.9 | 2219.9 | 2517.5 | 2264.6 | 2832.2 | 3405.8 | 3585.9 | 3825.4 |
| 48.5° | 194.3 | 363.7 | 766.6 | 1421.5 | 2211.0 | 2510.2 | 2258.7 | 2839.6 | 3384.5 | 3557.6 | 3817.5 |
| 49° | 189.5 | 356.6 | 761.3 | 1408.2 | 2203.6 | 2503.9 | 2250.1 | 2844.4 | 3363.3 | 3528.8 | 3804.6 |
| 49.5° | 184.9 | 349.9 | 756.5 | 1394.0 | 2194.1 | 2496.3 | 2241.8 | 2851.4 | 3345.8 | 3496.8 | 3792.5 |
| 50° | 180.2 | 343.2 | 750.2 | 1378.4 | 2183.8 | 2488.9 | 2231.0 | 2860.7 | 3325.9 | 3463.5 | 3774.8 |
| 50.5° | 175.9 | 336.8 | 745.4 | 1364.3 | 2174.6 | 2481.6 | 2218.2 | 2862.8 | 3304.7 | 3433.2 | 3754.3 |
| 51° | 171.9 | 331.0 | 740.1 | 1347.7 | 2161.9 | 2473.8 | 2203.5 | 2864.3 | 3283.7 | 3399.4 | 3729.4 |
| 51.5° | 167.7 | 324.8 | 733.3 | 1331.0 | 2149.6 | 2463.5 | 2186.3 | 2864.5 | 3256.8 | 3368.5 | 3701.1 |
| 52° | 163.9 | 319.2 | 727.9 | 1317.2 | 2137.4 | 2449.5 | 2168.8 | 2858.3 | 3228.0 | 3341.4 | 3675.1 |
| 52.5° | 160.2 | 313.5 | 720.8 | 1301.8 | 2124.7 | 2435.6 | 2148.8 | 2850.7 | 3196.7 | 3307.8 | 3646.4 |
| 53° | 156.4 | 307.4 | 712.4 | 1287.8 | 2109.6 | 2418.2 | 2126.4 | 2840.4 | 3162.4 | 3274.7 | 3617.1 |
| 53.5° | 152.9 | 301.6 | 705.1 | 1275.1 | 2095.2 | 2399.4 | 2103.2 | 2823.0 | 3126.9 | 3240.6 | 3597.4 |
| 54° | 149.3 | 295.9 | 696.1 | 1261.6 | 2078.4 | 2376.7 | 2078.3 | 2802.3 | 3088.3 | 3205.2 | 3572.2 |
| 54.5° | 145.6 | 290.0 | 687.8 | 1246.3 | 2060.3 | 2350.7 | 2051.4 | 2780.2 | 3050.4 | 3170.5 | 3540.8 |
| 55° | 142.3 | 284.5 | 679.3 | 1233.3 | 2039.6 | 2319.7 | 2025.0 | 2756.4 | 3012.9 | 3138.0 | 3515.7 |
| 55.5° | 138.8 | 278.9 | 669.8 | 1220.6 | 2018.5 | 2287.1 | 1994.7 | 2728.2 | 2974.3 | 3104.6 | 3482.2 |
| 56° | 135.2 | 273.1 | 659.8 | 1207.9 | 1993.8 | 2251.1 | 1962.9 | 2697.1 | 2929.9 | 3068.1 | 3448.9 |
| 56.5° | 132.0 | 267.9 | 651.4 | 1196.9 | 1969.9 | 2214.7 | 1930.2 | 2663.9 | 2889.1 | 3032.8 | 3417.8 |
| 57° | 128.8 | 262.8 | 641.7 | 1186.5 | 1943.4 | 2173.1 | 1897.8 | 2625.4 | 2847.7 | 2998.0 | 3376.8 |
| 57.5° | 125.5 | 257.6 | 631.8 | 1176.3 | 1917.2 | 2133.1 | 1863.8 | 2583.9 | 2808.3 | 2964.6 | 3339.7 |
| 58° | 122.3 | 252.7 | 622.4 | 1166.6 | 1891.7 | 2092.0 | 1829.4 | 2537.1 | 2767.4 | 2924.6 | 3302.0 |
| 58.5° | 119.1 | 247.9 | 612.5 | 1156.9 | 1866.2 | 2053.8 | 1797.9 | 2493.5 | 2725.3 | 2887.0 | 3259.1 |
| 59° | 115.9 | 242.4 | 602.0 | 1147.2 | 1841.5 | 2015.8 | 1763.2 | 2446.4 | 2680.6 | 2845.7 | 3204.7 |
| 59.5° | 112.6 | 236.8 | 591.1 | 1137.5 | 1814.9 | 1977.1 | 1730.4 | 2399.8 | 2637.0 | 2807.5 | 3151.1 |
| 60° | 109.3 | 230.8 | 579.9 | 1127.8 | 1787.8 | 1937.9 | 1698.9 | 2353.8 | 2593.9 | 2771.8 | 3097.9 |
| 60.5° | 106.0 | 224.6 | 567.8 | 1116.0 | 1761.4 | 1900.2 | 1666.6 | 2309.5 | 2551.4 | 2738.6 | 3037.7 |
| 61° | 102.8 | 219.1 | 556.3 | 1103.9 | 1733.5 | 1860.5 | 1634.0 | 2261.3 | 2509.6 | 2704.9 | 2973.2 |
| 61.5° | 99.6 | 213.6 | 543.4 | 1089.6 | 1706.3 | 1822.4 | 1602.5 | 2216.5 | 2465.3 | 2665.0 | 2915.0 |
| 62° | 96.3 | 208.4 | 529.7 | 1073.7 | 1680.1 | 1784.5 | 1573.7 | 2169.3 | 2417.1 | 2619.4 | 2854.4 |
| 62.5° | 93.3 | 203.3 | 516.7 | 1056.1 | 1652.8 | 1747.9 | 1543.6 | 2128.3 | 2369.6 | 2571.8 | 2792.8 |
| 63° | 90.1 | 197.7 | 501.7 | 1035.8 | 1625.2 | 1714.5 | 1514.9 | 2083.6 | 2321.6 | 2519.8 | 2732.3 |
| 63.5° | 87.1 | 192.1 | 487.6 | 1013.8 | 1597.5 | 1682.6 | 1485.9 | 2038.2 | 2274.4 | 2458.8 | 2666.9 |
| 64° | 84.2 | 186.8 | 473.5 | 993.3 | 1570.3 | 1649.0 | 1458.1 | 1995.1 | 2225.9 | 2396.4 | 2604.0 |
| 64.5° | 81.3 | 180.9 | 458.8 | 972.3 | 1540.3 | 1613.7 | 1429.3 | 1955.1 | 2178.5 | 2337.5 | 2546.3 |
| 65° | 78.4 | 174.8 | 443.1 | 952.5 | 1511.0 | 1578.9 | 1398.9 | 1912.5 | 2129.9 | 2276.8 | 2486.5 |
| 65.5° | 75.6 | 168.9 | 429.2 | 932.5 | 1478.3 | 1545.6 | 1369.3 | 1871.5 | 2081.3 | 2213.2 | 2427.3 |
| 66° | 72.6 | 163.1 | 414.0 | 909.6 | 1446.8 | 1509.4 | 1339.7 | 1831.5 | 2032.8 | 2155.2 | 2368.9 |
| 66.5° | 69.7 | 157.0 | 399.5 | 886.9 | 1415.3 | 1472.2 | 1307.3 | 1790.7 | 1982.4 | 2097.4 | 2308.8 |
| 67° | 66.5 | 151.6 | 385.2 | 864.7 | 1382.9 | 1436.7 | 1275.4 | 1747.0 | 1933.2 | 2037.8 | 2252.6 |



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CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 67.5° | 63.0 | 146.6 | 371.8 | 840.7 | 1349.2 | 1404.6 | 1244.7 | 1704.6 | 1881.7 | 1981.0 | 2200.1 |
| 68° | 57.7 | 141.4 | 358.2 | 815.3 | 1315.4 | 1372.6 | 1213.6 | 1662.3 | 1827.8 | 1923.3 | 2144.0 |
| 68.5° | 51.8 | 136.4 | 345.4 | 790.4 | 1280.4 | 1338.3 | 1182.6 | 1623.3 | 1776.1 | 1871.8 | 2087.5 |
| 69° | 45.0 | 131.5 | 333.3 | 764.4 | 1246.3 | 1301.7 | 1151.5 | 1579.7 | 1721.8 | 1820.7 | 2028.1 |
| 69.5° | 40.8 | 126.6 | 321.4 | 739.1 | 1211.0 | 1266.8 | 1120.5 | 1539.4 | 1666.5 | 1768.2 | 1966.0 |
| 70° | 39.6 | 121.7 | 309.9 | 714.5 | 1175.7 | 1229.1 | 1089.4 | 1499.9 | 1613.7 | 1719.2 | 1904.6 |
| 70.5° | 38.7 | 116.9 | 298.7 | 687.0 | 1140.5 | 1191.3 | 1057.7 | 1458.4 | 1561.0 | 1669.6 | 1842.9 |
| 71° | 37.8 | 111.9 | 287.8 | 662.9 | 1105.2 | 1153.6 | 1026.6 | 1415.5 | 1507.3 | 1617.1 | 1780.5 |
| 71.5° | 37.0 | 105.8 | 277.8 | 641.2 | 1069.9 | 1115.9 | 993.7 | 1374.4 | 1454.3 | 1563.2 | 1719.3 |
| 72° | 36.2 | 98.8 | 267.5 | 620.8 | 1032.7 | 1078.1 | 961.2 | 1333.0 | 1405.5 | 1515.2 | 1663.5 |
| 72.5° | 35.4 | 93.7 | 257.2 | 600.3 | 995.7 | 1038.4 | 926.9 | 1289.1 | 1356.2 | 1462.6 | 1604.7 |
| 73° | 34.7 | 90.2 | 246.0 | 579.8 | 958.4 | 1001.6 | 895.5 | 1241.4 | 1308.2 | 1407.5 | 1544.8 |
| 73.5° | 34.0 | 86.4 | 235.3 | 559.9 | 920.4 | 964.9 | 865.7 | 1193.8 | 1264.3 | 1357.9 | 1490.4 |
| 74° | 33.3 | 82.7 | 225.4 | 541.5 | 884.1 | 925.9 | 834.4 | 1146.1 | 1220.0 | 1303.6 | 1432.3 |
| 74.5° | 32.6 | 79.4 | 217.1 | 523.8 | 847.9 | 887.1 | 802.0 | 1098.4 | 1175.7 | 1253.0 | 1377.4 |
| 75° | 31.9 | 76.2 | 208.3 | 507.2 | 812.6 | 850.4 | 770.8 | 1050.7 | 1131.3 | 1202.4 | 1321.5 |
| 75.5° | 31.2 | 73.2 | 199.5 | 491.9 | 779.6 | 813.4 | 738.8 | 999.4 | 1087.0 | 1151.8 | 1265.3 |
| 76° | 30.5 | 70.4 | 191.3 | 478.2 | 747.5 | 777.4 | 707.3 | 948.7 | 1042.5 | 1101.1 | 1209.0 |
| 76.5° | 29.8 | 67.8 | 182.9 | 462.7 | 718.6 | 743.1 | 676.9 | 904.0 | 997.5 | 1050.6 | 1152.7 |
| 77° | 29.1 | 65.3 | 175.2 | 447.3 | 688.4 | 708.5 | 645.1 | 858.5 | 950.4 | 1002.0 | 1096.4 |
| 77.5° | 28.4 | 62.8 | 168.8 | 432.3 | 660.0 | 671.5 | 613.7 | 812.5 | 903.1 | 954.9 | 1040.2 |
| 78° | 27.7 | 60.3 | 162.2 | 415.0 | 628.0 | 633.8 | 582.9 | 769.9 | 859.3 | 909.8 | 988.9 |
| 78.5° | 26.9 | 57.9 | 156.7 | 398.8 | 594.3 | 596.7 | 549.6 | 728.1 | 814.1 | 862.2 | 934.3 |
| 79° | 26.1 | 55.6 | 150.8 | 381.9 | 558.9 | 561.3 | 516.1 | 686.7 | 771.0 | 817.2 | 881.6 |
| 79.5° | 25.3 | 53.3 | 144.5 | 365.2 | 522.8 | 526.6 | 483.5 | 648.5 | 731.4 | 775.3 | 829.0 |
| 80° | 24.5 | 51.1 | 137.0 | 347.7 | 486.8 | 491.9 | 451.2 | 610.5 | 691.3 | 730.4 | 778.0 |
| 80.5° | 23.7 | 49.0 | 129.5 | 330.3 | 453.8 | 458.3 | 420.1 | 572.8 | 651.1 | 686.7 | 726.9 |
| 81° | 22.9 | 46.9 | 122.0 | 312.4 | 422.9 | 425.3 | 392.8 | 537.4 | 613.9 | 645.9 | 681.5 |
| 81.5° | 22.2 | 45.0 | 114.5 | 294.4 | 394.0 | 392.2 | 364.3 | 503.1 | 576.3 | 603.0 | 633.4 |
| 82° | 21.4 | 42.9 | 107.0 | 276.5 | 364.7 | 358.6 | 335.2 | 468.1 | 540.4 | 562.4 | 586.4 |
| 82.5° | 20.7 | 40.9 | 99.3 | 256.8 | 337.8 | 327.7 | 306.2 | 435.0 | 504.3 | 523.4 | 543.9 |
| 83° | 20.0 | 38.9 | 91.7 | 237.9 | 311.1 | 297.7 | 280.6 | 403.1 | 469.3 | 486.2 | 502.3 |
| 83.5° | 19.3 | 36.9 | 84.1 | 219.8 | 284.6 | 268.3 | 257.1 | 372.8 | 434.3 | 448.7 | 463.9 |
| 84° | 18.6 | 35.0 | 77.0 | 201.4 | 258.4 | 240.4 | 235.1 | 343.3 | 401.6 | 416.7 | 430.1 |
| 84.5° | 17.9 | 33.3 | 71.0 | 183.4 | 232.9 | 213.1 | 213.0 | 314.5 | 368.0 | 383.5 | 395.7 |
| 85° | 17.3 | 31.6 | 65.3 | 166.5 | 209.0 | 187.4 | 193.9 | 287.9 | 338.2 | 354.6 | 365.3 |
| 85.5° | 16.7 | 29.9 | 59.8 | 152.5 | 186.0 | 167.8 | 174.9 | 262.0 | 310.6 | 327.6 | 337.4 |
| 86° | 16.1 | 28.4 | 55.2 | 138.5 | 168.5 | 148.2 | 158.2 | 237.4 | 284.2 | 302.3 | 311.4 |
| 86.5° | 15.6 | 27.0 | 51.0 | 124.5 | 151.1 | 128.5 | 144.9 | 215.5 | 260.6 | 279.4 | 286.8 |
| 87° | 15.0 | 25.7 | 47.4 | 110.5 | 133.6 | 108.9 | 131.7 | 197.2 | 240.8 | 259.8 | 266.0 |
| 87.5° | 14.5 | 24.4 | 44.2 | 96.6 | 116.1 | 89.4 | 118.5 | 178.9 | 221.8 | 240.7 | 245.8 |
| 88° | 14.0 | 23.3 | 41.3 | 87.1 | 98.7 | 76.7 | 105.6 | 163.9 | 205.1 | 223.5 | 227.5 |
| 88.5° | 13.5 | 22.2 | 38.9 | 78.5 | 86.8 | 65.5 | 96.4 | 151.3 | 190.7 | 208.1 | 211.4 |
| 89° | 13.0 | 21.3 | 36.8 | 71.1 | 77.1 | 56.6 | 88.2 | 143.0 | 178.0 | 194.7 | 196.4 |
| 89.5° | 12.6 | 20.4 | 34.9 | 64.9 | 68.8 | 49.4 | 81.8 | 134.7 | 166.9 | 182.0 | 183.3 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|--------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| 90° | 12.2 | 19.5 | 33.3 | 59.8 | 62.3 | 44.1 | 76.9 | 126.5 | 156.6 | 171.4 | 172.3 |
| 90.5° | 11.8 | 18.8 | 32.0 | 55.6 | 57.4 | 40.0 | 73.0 | 118.2 | 147.2 | 161.5 | 162.2 |
| 91° | 11.4 | 18.1 | 30.9 | 52.1 | 53.9 | 37.1 | 69.9 | 109.9 | 139.6 | 152.2 | 153.2 |
| 91.5° | 11.0 | 17.6 | 30.0 | 49.2 | 51.4 | 35.0 | 67.6 | 105.4 | 134.9 | 143.6 | 144.5 |
| 92° | 10.6 | 17.1 | 29.3 | 46.9 | 49.8 | 33.7 | 65.8 | 101.8 | 130.2 | 136.9 | 136.5 |
| 92.5° | 10.4 | 16.7 | 28.8 | 45.0 | 48.6 | 32.9 | 64.4 | 98.7 | 125.4 | 132.2 | 131.7 |
| 93° | 10.1 | 16.3 | 28.4 | 43.7 | 47.9 | 32.6 | 63.2 | 96.1 | 120.7 | 127.4 | 127.0 |
| 93.5° | 9.9 | 15.9 | 28.2 | 42.9 | 47.5 | 32.4 | 62.1 | 93.9 | 116.0 | 122.6 | 122.3 |
| 94° | 9.7 | 15.6 | 28.0 | 42.4 | 47.3 | 32.5 | 61.2 | 91.9 | 112.9 | 117.9 | 117.6 |
| 94.5° | 9.5 | 15.3 | 27.9 | 42.1 | 47.4 | 32.7 | 60.6 | 90.1 | 110.2 | 114.5 | 114.6 |
| 95° | 9.4 | 15.0 | 27.8 | 41.9 | 47.4 | 33.0 | 60.1 | 88.4 | 107.6 | 111.5 | 112.1 |
| 95.5° | 9.2 | 14.7 | 27.6 | 41.7 | 47.4 | 33.5 | 59.8 | 86.9 | 105.1 | 108.7 | 109.8 |
| 96° | 9.0 | 14.5 | 27.5 | 41.5 | 47.4 | 34.0 | 59.8 | 85.5 | 103.0 | 106.3 | 107.9 |
| 96.5° | 8.9 | 14.3 | 27.3 | 41.3 | 47.3 | 34.5 | 59.9 | 84.3 | 101.0 | 104.2 | 106.2 |
| 97° | 8.8 | 14.1 | 27.1 | 41.0 | 47.1 | 35.1 | 60.0 | 83.4 | 99.1 | 102.2 | 104.7 |
| 97.5° | 8.6 | 13.9 | 26.8 | 40.6 | 46.8 | 35.7 | 60.2 | 82.6 | 97.5 | 100.5 | 103.4 |
| 98° | 8.5 | 13.6 | 26.3 | 40.1 | 46.5 | 36.4 | 60.5 | 82.1 | 96.0 | 98.9 | 102.3 |
| 98.5° | 8.3 | 13.4 | 25.8 | 39.6 | 46.1 | 37.0 | 60.8 | 81.6 | 94.8 | 97.6 | 101.3 |
| 99° | 8.2 | 13.2 | 25.2 | 39.1 | 45.8 | 37.7 | 61.2 | 81.2 | 93.6 | 96.5 | 100.4 |
| 99.5° | 8.1 | 13.0 | 24.6 | 38.5 | 45.6 | 38.5 | 61.6 | 81.0 | 92.7 | 95.4 | 99.6 |
| 100° | 7.9 | 12.8 | 24.0 | 37.9 | 45.4 | 39.2 | 62.1 | 80.8 | 91.9 | 94.3 | 98.9 |
| 100.5° | 7.8 | 12.6 | 23.3 | 37.3 | 45.3 | 39.9 | 62.6 | 80.8 | 91.4 | 93.5 | 98.0 |
| 101° | 7.6 | 12.4 | 22.8 | 36.8 | 45.3 | 40.6 | 63.1 | 80.7 | 90.9 | 93.1 | 97.2 |
| 101.5° | 7.4 | 12.2 | 22.2 | 36.3 | 45.3 | 41.4 | 63.6 | 80.7 | 90.5 | 92.9 | 97.0 |
| 102° | 7.2 | 12.1 | 21.8 | 35.8 | 45.5 | 42.1 | 64.1 | 80.7 | 90.1 | 92.7 | 97.2 |
| 102.5° | 7.0 | 11.9 | 21.3 | 35.4 | 45.8 | 42.9 | 64.7 | 80.7 | 89.7 | 92.5 | 97.1 |
| 103° | 6.8 | 11.8 | 20.9 | 35.1 | 46.0 | 43.6 | 65.4 | 80.7 | 89.3 | 92.2 | 96.9 |
| 103.5° | 6.6 | 11.7 | 20.6 | 34.8 | 46.4 | 44.4 | 66.0 | 80.8 | 89.0 | 92.1 | 96.8 |
| 104° | 6.5 | 11.5 | 20.3 | 34.5 | 46.8 | 45.1 | 66.7 | 80.9 | 88.7 | 91.9 | 96.6 |
| 104.5° | 6.4 | 11.4 | 20.1 | 34.2 | 47.3 | 45.9 | 67.4 | 81.0 | 88.4 | 91.8 | 96.6 |
| 105° | 6.3 | 11.3 | 19.9 | 34.1 | 47.8 | 46.6 | 68.0 | 81.1 | 88.1 | 91.7 | 96.5 |
| 105.5° | 6.2 | 11.2 | 19.8 | 33.9 | 48.3 | 47.4 | 68.6 | 81.2 | 87.7 | 91.6 | 96.5 |
| 106° | 6.2 | 11.2 | 19.7 | 33.8 | 48.8 | 48.2 | 69.3 | 81.3 | 87.4 | 91.4 | 96.5 |
| 106.5° | 6.1 | 11.1 | 19.6 | 33.8 | 49.3 | 48.9 | 69.8 | 81.3 | 87.1 | 91.3 | 96.4 |
| 107° | 6.1 | 10.9 | 19.6 | 33.8 | 49.8 | 49.6 | 70.4 | 81.4 | 86.8 | 91.1 | 96.2 |
| 107.5° | 6.0 | 10.8 | 19.6 | 33.8 | 50.3 | 50.2 | 71.0 | 81.5 | 86.5 | 90.8 | 96.1 |
| 108° | 5.9 | 10.7 | 19.6 | 33.7 | 50.7 | 50.9 | 71.5 | 81.7 | 86.2 | 90.5 | 95.8 |
| 108.5° | 5.9 | 10.7 | 19.6 | 33.8 | 51.1 | 51.5 | 72.1 | 82.0 | 86.0 | 90.2 | 95.4 |
| 109° | 5.8 | 10.6 | 19.6 | 33.8 | 51.5 | 52.0 | 72.6 | 82.4 | 85.9 | 89.9 | 95.1 |
| 109.5° | 5.7 | 10.5 | 19.6 | 33.8 | 51.8 | 52.6 | 73.1 | 82.8 | 85.8 | 89.8 | 94.7 |
| 110° | 5.6 | 10.5 | 19.6 | 33.9 | 52.2 | 53.1 | 73.6 | 83.2 | 85.7 | 89.6 | 94.4 |
| 110.5° | 5.5 | 10.4 | 19.6 | 33.9 | 52.6 | 53.6 | 74.2 | 83.5 | 85.7 | 89.5 | 94.1 |
| 111° | 5.5 | 10.4 | 19.6 | 34.0 | 52.9 | 54.1 | 74.7 | 83.9 | 85.7 | 89.4 | 93.9 |
| 111.5° | 5.4 | 10.3 | 19.6 | 34.0 | 53.3 | 54.7 | 75.3 | 84.2 | 85.6 | 89.4 | 93.6 |
| 112° | 5.4 | 10.3 | 19.6 | 34.0 | 53.7 | 55.3 | 75.8 | 84.5 | 85.6 | 89.4 | 93.3 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 5.4 | 10.3 | 19.6 | 34.0 | 54.1 | 55.8 | 76.3 | 84.8 | 85.6 | 89.3 | 93.1 |
| 113° | 5.4 | 10.2 | 19.6 | 34.0 | 54.5 | 56.3 | 76.8 | 85.2 | 85.5 | 89.3 | 92.9 |
| 113.5° | 5.4 | 10.2 | 19.6 | 34.0 | 54.8 | 56.8 | 77.2 | 85.5 | 85.5 | 89.2 | 92.8 |
| 114° | 5.4 | 10.2 | 19.6 | 34.0 | 55.1 | 57.2 | 77.6 | 85.8 | 85.5 | 89.2 | 92.8 |
| 114.5° | 5.4 | 10.2 | 19.5 | 33.9 | 55.4 | 57.6 | 78.0 | 86.1 | 85.5 | 89.0 | 92.8 |
| 115° | 5.4 | 10.1 | 19.5 | 33.9 | 55.7 | 58.0 | 78.3 | 86.3 | 85.5 | 88.9 | 92.7 |
| 115.5° | 5.4 | 10.1 | 19.4 | 33.9 | 55.9 | 58.3 | 78.6 | 86.6 | 85.4 | 88.8 | 92.6 |
| 116° | 5.4 | 10.1 | 19.4 | 33.9 | 56.1 | 58.6 | 78.9 | 86.8 | 85.4 | 88.8 | 92.5 |
| 116.5° | 5.5 | 10.1 | 19.3 | 33.9 | 56.3 | 58.7 | 79.1 | 86.9 | 85.3 | 88.7 | 92.4 |
| 117° | 5.5 | 10.1 | 19.3 | 33.8 | 56.5 | 58.9 | 79.3 | 87.0 | 85.3 | 88.7 | 92.3 |
| 117.5° | 5.5 | 10.2 | 19.2 | 33.8 | 56.8 | 59.0 | 79.4 | 87.0 | 85.3 | 88.6 | 92.2 |
| 118° | 5.6 | 10.2 | 19.1 | 33.8 | 57.0 | 59.2 | 79.5 | 87.1 | 85.3 | 88.6 | 92.1 |
| 118.5° | 5.6 | 10.2 | 19.1 | 33.8 | 57.2 | 59.3 | 79.5 | 87.2 | 85.3 | 88.5 | 92.0 |
| 119° | 5.7 | 10.3 | 19.1 | 33.8 | 57.2 | 59.3 | 79.4 | 87.3 | 85.2 | 88.5 | 91.9 |
| 119.5° | 5.7 | 10.3 | 19.0 | 33.7 | 57.2 | 59.2 | 79.2 | 87.3 | 85.2 | 88.5 | 91.8 |
| 120° | 5.8 | 10.4 | 19.0 | 33.7 | 57.2 | 59.1 | 79.0 | 87.3 | 85.2 | 88.5 | 91.7 |
| 120.5° | 5.9 | 10.4 | 19.0 | 33.7 | 57.2 | 58.9 | 78.9 | 87.3 | 85.2 | 88.5 | 91.6 |
| 121° | 6.0 | 10.4 | 19.0 | 33.7 | 57.1 | 58.7 | 78.6 | 87.3 | 85.2 | 88.6 | 91.6 |
| 121.5° | 6.0 | 10.5 | 19.0 | 33.7 | 57.1 | 58.4 | 78.3 | 87.3 | 85.2 | 88.6 | 91.5 |
| 122° | 6.1 | 10.5 | 19.0 | 33.7 | 57.0 | 58.1 | 78.0 | 87.3 | 85.3 | 88.7 | 91.5 |
| 122.5° | 6.2 | 10.6 | 19.0 | 33.6 | 56.9 | 57.7 | 77.6 | 87.2 | 85.3 | 88.7 | 91.5 |
| 123° | 6.3 | 10.6 | 19.0 | 33.6 | 56.8 | 57.3 | 77.2 | 87.3 | 85.4 | 88.8 | 91.5 |
| 123.5° | 6.4 | 10.7 | 19.1 | 33.6 | 56.7 | 56.9 | 76.7 | 87.3 | 85.5 | 88.9 | 91.5 |
| 124° | 6.4 | 10.7 | 19.1 | 33.6 | 56.6 | 56.6 | 76.3 | 87.4 | 85.6 | 89.0 | 91.5 |
| 124.5° | 6.5 | 10.8 | 19.1 | 33.7 | 56.5 | 56.2 | 75.9 | 87.4 | 85.7 | 89.1 | 91.5 |
| 125° | 6.6 | 10.8 | 19.2 | 33.8 | 56.4 | 55.8 | 75.5 | 87.6 | 85.8 | 89.2 | 91.5 |
| 125.5° | 6.7 | 10.9 | 19.3 | 33.8 | 56.4 | 55.5 | 75.1 | 87.7 | 86.0 | 89.4 | 91.6 |
| 126° | 6.7 | 11.0 | 19.3 | 33.9 | 56.4 | 55.2 | 74.7 | 87.8 | 86.2 | 89.5 | 91.6 |
| 126.5° | 6.8 | 11.0 | 19.4 | 34.0 | 56.4 | 55.0 | 74.4 | 88.0 | 86.4 | 89.7 | 91.6 |
| 127° | 6.9 | 11.1 | 19.5 | 34.1 | 56.4 | 54.8 | 74.0 | 88.2 | 86.6 | 89.7 | 91.6 |
| 127.5° | 6.9 | 11.2 | 19.5 | 34.3 | 56.4 | 54.6 | 73.7 | 88.3 | 86.9 | 89.9 | 91.6 |
| 128° | 7.0 | 11.2 | 19.6 | 34.4 | 56.5 | 54.5 | 73.4 | 88.5 | 87.2 | 90.0 | 91.6 |
| 128.5° | 7.0 | 11.3 | 19.7 | 34.5 | 56.5 | 54.3 | 73.2 | 88.7 | 87.4 | 90.1 | 91.6 |
| 129° | 7.1 | 11.4 | 19.8 | 34.7 | 56.6 | 54.3 | 72.9 | 88.9 | 87.7 | 90.3 | 91.6 |
| 129.5° | 7.1 | 11.4 | 19.8 | 34.9 | 56.6 | 54.2 | 72.6 | 89.0 | 87.9 | 90.3 | 91.6 |
| 130° | 7.2 | 11.5 | 19.9 | 35.1 | 56.7 | 54.1 | 72.4 | 89.2 | 88.2 | 90.4 | 91.5 |
| 130.5° | 7.2 | 11.6 | 20.0 | 35.3 | 56.7 | 54.1 | 72.2 | 89.3 | 88.4 | 90.4 | 91.5 |
| 131° | 7.3 | 11.6 | 20.0 | 35.5 | 56.8 | 54.0 | 71.9 | 89.3 | 88.7 | 90.4 | 91.4 |
| 131.5° | 7.3 | 11.7 | 20.1 | 35.6 | 56.8 | 53.9 | 71.6 | 89.2 | 88.9 | 90.3 | 91.2 |
| 132° | 7.4 | 11.7 | 20.2 | 35.8 | 56.9 | 53.8 | 71.4 | 89.2 | 89.1 | 90.2 | 91.0 |
| 132.5° | 7.4 | 11.8 | 20.3 | 36.0 | 56.9 | 53.8 | 71.1 | 89.1 | 89.2 | 90.1 | 90.8 |
| 133° | 7.4 | 11.9 | 20.4 | 36.2 | 56.8 | 53.7 | 70.8 | 89.0 | 89.3 | 90.0 | 90.5 |
| 133.5° | 7.5 | 11.9 | 20.4 | 36.4 | 56.7 | 53.5 | 70.4 | 88.7 | 89.4 | 89.8 | 90.1 |
| 134° | 7.5 | 12.0 | 20.5 | 36.6 | 56.6 | 53.3 | 70.0 | 88.4 | 89.5 | 89.6 | 89.7 |
| 134.5° | 7.5 | 12.1 | 20.6 | 36.8 | 56.5 | 53.1 | 69.5 | 88.1 | 89.4 | 89.3 | 89.3 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 135° | 7.6 | 12.1 | 20.7 | 36.9 | 56.3 | 52.9 | 69.0 | 87.7 | 89.3 | 89.1 | 88.8 |
| 135.5° | 7.6 | 12.2 | 20.8 | 37.1 | 56.1 | 52.7 | 68.6 | 87.3 | 89.2 | 88.8 | 88.3 |
| 136° | 7.6 | 12.2 | 20.9 | 37.2 | 55.8 | 52.4 | 68.0 | 86.7 | 88.9 | 88.4 | 87.7 |
| 136.5° | 7.6 | 12.3 | 20.9 | 37.3 | 55.5 | 52.1 | 67.4 | 86.2 | 88.6 | 87.9 | 87.0 |
| 137° | 7.6 | 12.3 | 21.0 | 37.4 | 55.2 | 51.8 | 66.8 | 85.6 | 88.2 | 87.5 | 86.3 |
| 137.5° | 7.7 | 12.4 | 21.1 | 37.5 | 54.7 | 51.5 | 66.2 | 84.8 | 87.8 | 87.0 | 85.5 |
| 138° | 7.7 | 12.4 | 21.1 | 37.5 | 54.3 | 51.1 | 65.5 | 84.1 | 87.3 | 86.4 | 84.9 |
| 138.5° | 7.7 | 12.4 | 21.1 | 37.5 | 53.8 | 50.7 | 64.8 | 83.2 | 86.7 | 85.8 | 84.2 |
| 139° | 7.7 | 12.4 | 21.1 | 37.5 | 53.3 | 50.2 | 64.0 | 82.4 | 86.0 | 85.1 | 83.4 |
| 139.5° | 7.7 | 12.5 | 21.1 | 37.4 | 52.7 | 49.8 | 63.2 | 81.4 | 85.3 | 84.4 | 82.7 |
| 140° | 7.7 | 12.5 | 21.1 | 37.4 | 52.1 | 49.3 | 62.4 | 80.4 | 84.4 | 83.7 | 82.0 |
| 140.5° | 7.7 | 12.4 | 21.1 | 37.3 | 51.4 | 48.7 | 61.5 | 79.3 | 83.5 | 82.8 | 81.4 |
| 141° | 7.7 | 12.4 | 21.1 | 37.1 | 50.7 | 48.1 | 60.6 | 78.2 | 82.5 | 81.8 | 80.7 |
| 141.5° | 7.7 | 12.4 | 21.0 | 36.9 | 49.9 | 47.5 | 59.7 | 77.0 | 81.5 | 80.8 | 79.9 |
| 142° | 7.7 | 12.4 | 20.9 | 36.7 | 49.1 | 46.9 | 58.7 | 75.8 | 80.4 | 79.9 | 79.3 |
| 142.5° | 7.7 | 12.3 | 20.8 | 36.4 | 48.3 | 46.1 | 57.6 | 74.5 | 79.2 | 78.7 | 78.6 |
| 143° | 7.6 | 12.3 | 20.7 | 36.1 | 47.4 | 45.4 | 56.5 | 73.1 | 78.0 | 77.6 | 77.9 |
| 143.5° | 7.6 | 12.2 | 20.6 | 35.8 | 46.5 | 44.7 | 55.4 | 71.7 | 76.7 | 76.4 | 77.2 |
| 144° | 7.6 | 12.1 | 20.5 | 35.4 | 45.6 | 43.9 | 54.2 | 70.2 | 75.3 | 75.2 | 76.5 |
| 144.5° | 7.5 | 12.1 | 20.3 | 35.0 | 44.6 | 43.1 | 53.0 | 68.7 | 73.9 | 74.0 | 75.6 |
| 145° | 7.5 | 12.0 | 20.2 | 34.5 | 43.6 | 42.2 | 51.9 | 67.2 | 72.4 | 72.8 | 74.8 |
| 145.5° | 7.4 | 11.9 | 20.0 | 34.1 | 42.6 | 41.4 | 50.6 | 65.6 | 71.0 | 71.6 | 74.0 |
| 146° | 7.3 | 11.8 | 19.8 | 33.5 | 41.6 | 40.4 | 49.3 | 64.0 | 69.4 | 70.4 | 73.0 |
| 146.5° | 7.3 | 11.6 | 19.6 | 32.9 | 40.5 | 39.5 | 48.0 | 62.3 | 67.9 | 69.1 | 72.0 |
| 147° | 7.2 | 11.5 | 19.4 | 32.3 | 39.4 | 38.6 | 46.7 | 60.6 | 66.3 | 67.9 | 70.9 |
| 147.5° | 7.1 | 11.3 | 19.1 | 31.7 | 38.3 | 37.6 | 45.3 | 58.9 | 64.7 | 66.7 | 69.8 |
| 148° | 7.0 | 11.2 | 18.9 | 31.0 | 37.3 | 36.6 | 44.0 | 57.2 | 63.1 | 65.5 | 68.6 |
| 148.5° | 6.9 | 11.0 | 18.6 | 30.3 | 36.1 | 35.6 | 42.6 | 55.4 | 61.5 | 64.3 | 67.5 |
| 149° | 6.8 | 10.9 | 18.3 | 29.6 | 35.0 | 34.6 | 41.3 | 53.6 | 59.9 | 63.1 | 66.3 |
| 149.5° | 6.7 | 10.7 | 18.1 | 28.8 | 33.9 | 33.6 | 39.9 | 51.8 | 58.3 | 61.8 | 65.0 |
| 150° | 6.5 | 10.6 | 17.7 | 28.0 | 32.8 | 32.6 | 38.5 | 49.9 | 56.7 | 60.4 | 63.8 |
| 150.5° | 6.4 | 10.4 | 17.4 | 27.1 | 31.6 | 31.6 | 37.0 | 48.1 | 54.9 | 59.1 | 62.5 |
| 151° | 6.3 | 10.2 | 17.1 | 26.3 | 30.5 | 30.6 | 35.6 | 46.3 | 53.2 | 57.7 | 61.2 |
| 151.5° | 6.1 | 10.0 | 16.7 | 25.5 | 29.4 | 29.6 | 34.3 | 44.6 | 51.5 | 56.3 | 59.9 |
| 152° | 6.0 | 9.8 | 16.4 | 24.7 | 28.3 | 28.5 | 32.9 | 42.8 | 49.7 | 54.9 | 58.6 |
| 152.5° | 5.9 | 9.5 | 16.0 | 23.8 | 27.3 | 27.6 | 31.7 | 41.1 | 47.9 | 53.5 | 57.2 |
| 153° | 5.7 | 9.3 | 15.6 | 23.0 | 26.2 | 26.5 | 30.3 | 39.3 | 46.2 | 52.0 | 55.8 |
| 153.5° | 5.6 | 9.1 | 15.2 | 22.1 | 25.1 | 25.6 | 29.0 | 37.6 | 44.3 | 50.6 | 54.4 |
| 154° | 5.4 | 8.8 | 14.7 | 21.3 | 24.1 | 24.6 | 27.7 | 35.9 | 42.5 | 49.1 | 52.8 |
| 154.5° | 5.2 | 8.5 | 14.3 | 20.4 | 23.1 | 23.6 | 26.5 | 34.3 | 40.7 | 47.6 | 51.4 |
| 155° | 5.1 | 8.3 | 13.8 | 19.5 | 22.1 | 22.6 | 25.3 | 32.6 | 38.8 | 46.0 | 49.9 |
| 155.5° | 4.9 | 8.0 | 13.3 | 18.7 | 21.1 | 21.7 | 24.0 | 31.0 | 36.9 | 44.3 | 48.4 |
| 156° | 4.7 | 7.7 | 12.8 | 17.9 | 20.1 | 20.7 | 22.8 | 29.4 | 35.1 | 42.2 | 47.0 |
| 156.5° | 4.5 | 7.4 | 12.2 | 17.0 | 19.2 | 19.9 | 21.7 | 27.8 | 33.3 | 40.2 | 45.5 |
| 157° | 4.4 | 7.1 | 11.7 | 16.2 | 18.2 | 19.0 | 20.6 | 26.3 | 31.5 | 38.2 | 44.0 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 157.5° | 4.4 | 6.7 | 11.1 | 15.4 | 17.4 | 18.1 | 19.5 | 24.9 | 29.6 | 36.2 | 42.6 |
| 158° | 4.3 | 6.4 | 10.5 | 14.6 | 16.5 | 17.3 | 18.5 | 23.4 | 27.7 | 34.2 | 41.1 |
| 158.5° | 4.3 | 6.1 | 10.0 | 13.9 | 15.7 | 16.4 | 17.5 | 22.0 | 25.9 | 32.1 | 39.6 |
| 159° | 4.2 | 5.8 | 9.5 | 13.1 | 14.8 | 15.6 | 16.5 | 20.7 | 24.1 | 30.0 | 37.5 |
| 159.5° | 4.2 | 5.4 | 9.0 | 12.4 | 14.0 | 14.8 | 15.6 | 19.4 | 22.6 | 28.0 | 35.2 |
| 160° | 4.2 | 5.1 | 8.5 | 11.7 | 13.3 | 14.0 | 14.6 | 18.1 | 21.2 | 26.1 | 32.8 |
| 160.5° | 4.1 | 4.9 | 7.9 | 10.9 | 12.5 | 13.3 | 13.8 | 16.9 | 19.9 | 24.1 | 30.6 |
| 161° | 4.1 | 4.7 | 7.4 | 10.2 | 11.8 | 12.6 | 13.0 | 15.7 | 18.5 | 22.3 | 28.4 |
| 161.5° | 4.1 | 4.6 | 7.0 | 9.6 | 11.0 | 11.8 | 12.2 | 14.6 | 17.2 | 20.3 | 26.0 |
| 162° | 4.1 | 4.5 | 6.5 | 8.9 | 10.3 | 11.1 | 11.4 | 13.7 | 16.0 | 18.4 | 23.8 |
| 162.5° | 4.0 | 4.3 | 6.0 | 8.3 | 9.6 | 10.3 | 10.7 | 12.7 | 14.8 | 16.5 | 21.8 |
| 163° | 4.0 | 4.2 | 5.6 | 7.7 | 9.0 | 9.7 | 9.9 | 11.7 | 13.8 | 14.7 | 19.7 |
| 163.5° | 4.0 | 4.1 | 5.3 | 7.2 | 8.4 | 9.1 | 9.2 | 10.8 | 12.8 | 13.7 | 17.8 |
| 164° | 4.0 | 4.0 | 5.0 | 6.6 | 7.8 | 8.5 | 8.6 | 9.8 | 11.7 | 12.7 | 16.0 |
| 164.5° | 4.0 | 3.9 | 4.7 | 6.2 | 7.3 | 7.9 | 8.1 | 9.0 | 10.7 | 11.7 | 14.3 |
| 165° | 3.9 | 3.9 | 4.5 | 5.7 | 6.8 | 7.4 | 7.5 | 8.3 | 9.7 | 10.7 | 12.6 |
| 165.5° | 3.9 | 3.9 | 4.3 | 5.3 | 6.3 | 6.9 | 7.0 | 7.6 | 8.8 | 9.7 | 10.9 |
| 166° | 3.9 | 3.9 | 4.1 | 5.0 | 5.8 | 6.4 | 6.6 | 7.0 | 8.1 | 8.9 | 9.2 |
| 166.5° | 4.0 | 3.9 | 3.9 | 4.7 | 5.4 | 6.0 | 6.1 | 6.5 | 7.5 | 8.2 | 8.5 |
| 167° | 4.0 | 3.9 | 3.9 | 4.4 | 5.1 | 5.6 | 5.7 | 6.0 | 6.8 | 7.5 | 8.0 |
| 167.5° | 4.0 | 3.9 | 3.9 | 4.2 | 4.7 | 5.2 | 5.3 | 5.5 | 6.3 | 6.9 | 7.6 |
| 168° | 4.0 | 3.9 | 3.9 | 4.0 | 4.4 | 4.8 | 5.0 | 5.1 | 5.7 | 6.4 | 7.1 |
| 168.5° | 4.0 | 3.9 | 3.9 | 3.9 | 4.2 | 4.5 | 4.6 | 4.6 | 5.3 | 6.0 | 6.8 |
| 169° | 4.0 | 3.9 | 3.9 | 3.9 | 3.9 | 4.2 | 4.3 | 4.3 | 4.9 | 5.7 | 6.4 |
| 169.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 4.0 | 4.0 | 4.7 | 5.5 | 6.1 |
| 170° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 4.5 | 5.2 | 5.8 |
| 170.5° | 3.9 | 3.8 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 4.4 | 5.0 | 5.5 |
| 171° | 3.9 | 3.8 | 3.8 | 3.9 | 3.9 | 3.9 | 3.9 | 4.0 | 4.3 | 4.9 | 5.3 |
| 171.5° | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 3.9 | 3.9 | 4.0 | 4.3 | 4.7 | 5.1 |
| 172° | 3.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 | 4.0 | 4.2 | 4.6 | 4.9 |
| 172.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 | 4.0 | 4.2 | 4.5 | 4.8 |
| 173° | 3.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 | 4.0 | 4.1 | 4.4 | 4.6 |
| 173.5° | 3.7 | 3.7 | 3.8 | 3.8 | 3.8 | 3.9 | 4.0 | 4.0 | 4.1 | 4.3 | 4.5 |
| 174° | 3.7 | 3.7 | 3.7 | 3.8 | 3.8 | 3.9 | 4.0 | 4.0 | 4.1 | 4.3 | 4.5 |
| 174.5° | 3.7 | 3.7 | 3.7 | 3.8 | 3.8 | 3.9 | 4.0 | 4.1 | 4.1 | 4.2 | 4.4 |
| 175° | 3.7 | 3.7 | 3.7 | 3.8 | 3.8 | 3.9 | 4.0 | 4.1 | 4.1 | 4.2 | 4.3 |
| 175.5° | 3.7 | 3.7 | 3.7 | 3.8 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.2 | 4.3 |
| 176° | 3.6 | 3.6 | 3.7 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.2 | 4.3 |
| 176.5° | 3.6 | 3.6 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.1 | 4.2 | 4.2 |
| 177° | 3.6 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 |
| 177.5° | 3.5 | 3.5 | 3.6 | 3.6 | 3.8 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 |
| 178° | 3.5 | 3.5 | 3.6 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 |
| 178.5° | 3.5 | 3.5 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 |
| 179° | 3.5 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 |
| 179.5° | 3.4 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.2 | 4.3 | 4.4 |



REPORT NUMBER: P973039
CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
| 180° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 3476.1 | 3476.1 | 3476.1 | 3476.1 |
| 0.5° | 3533.6 | 3540.6 | 3541.7 | 3530.5 |
| 1° | 3565.5 | 3565.3 | 3561.4 | 3495.7 |
| 1.5° | 3519.6 | 3494.6 | 3478.1 | 3370.7 |
| 2° | 3411.8 | 3365.3 | 3338.4 | 3213.5 |
| 2.5° | 3266.8 | 3220.4 | 3195.6 | 3121.6 |
| 3° | 3170.8 | 3147.4 | 3142.8 | 3119.2 |
| 3.5° | 3140.0 | 3145.8 | 3157.6 | 3142.7 |
| 4° | 3157.2 | 3171.8 | 3168.7 | 3110.0 |
| 4.5° | 3168.0 | 3143.2 | 3102.7 | 2985.3 |
| 5° | 3119.2 | 3035.6 | 2964.8 | 2841.2 |
| 5.5° | 3004.0 | 2890.6 | 2841.4 | 2791.2 |
| 6° | 2878.4 | 2824.2 | 2830.6 | 2862.9 |
| 6.5° | 2826.4 | 2863.8 | 2930.3 | 2999.2 |
| 7° | 2859.4 | 2979.9 | 3061.9 | 3097.4 |
| 7.5° | 2964.3 | 3094.4 | 3132.2 | 3084.7 |
| 8° | 3073.3 | 3127.7 | 3098.1 | 2991.9 |
| 8.5° | 3132.8 | 3071.8 | 3008.6 | 2939.8 |
| 9° | 3102.5 | 2997.7 | 2980.3 | 2999.4 |
| 9.5° | 3034.2 | 2987.8 | 3059.3 | 3166.7 |
| 10° | 2985.5 | 3076.4 | 3234.0 | 3347.3 |
| 10.5° | 3014.2 | 3237.1 | 3400.7 | 3428.5 |
| 11° | 3115.7 | 3393.3 | 3459.4 | 3390.7 |
| 11.5° | 3272.7 | 3456.1 | 3417.4 | 3305.7 |
| 12° | 3394.9 | 3417.9 | 3336.3 | 3288.3 |
| 12.5° | 3437.9 | 3343.7 | 3325.1 | 3372.1 |
| 13° | 3408.9 | 3316.5 | 3405.1 | 3488.7 |
| 13.5° | 3339.5 | 3373.5 | 3516.3 | 3547.6 |
| 14° | 3301.4 | 3468.7 | 3575.7 | 3556.2 |
| 14.5° | 3338.8 | 3544.4 | 3591.8 | 3563.8 |
| 15° | 3416.8 | 3582.2 | 3608.7 | 3612.2 |
| 15.5° | 3491.6 | 3597.7 | 3664.8 | 3742.2 |
| 16° | 3538.7 | 3630.6 | 3780.9 | 3918.7 |
| 16.5° | 3565.2 | 3712.2 | 3955.0 | 4110.2 |
| 17° | 3585.7 | 3849.5 | 4142.1 | 4275.2 |
| 17.5° | 3625.7 | 4030.4 | 4323.1 | 4401.6 |
| 18° | 3712.2 | 4209.5 | 4457.5 | 4499.3 |
| 18.5° | 3845.1 | 4360.8 | 4554.9 | 4598.7 |
| 19° | 4007.4 | 4475.5 | 4650.8 | 4725.1 |
| 19.5° | 4174.1 | 4565.0 | 4774.5 | 4885.0 |
| 20° | 4302.4 | 4652.4 | 4928.1 | 5050.4 |
| 20.5° | 4405.8 | 4774.7 | 5081.1 | 5187.8 |
| 21° | 4483.9 | 4920.2 | 5208.5 | 5292.9 |
| 21.5° | 4562.1 | 5058.5 | 5310.9 | 5372.5 |
| 22° | 4664.3 | 5161.4 | 5387.5 | 5431.9 |



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 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 22.5° | 4785.3 | 5235.5 | 5445.7 | 5461.3 |
| 23° | 4903.7 | 5299.6 | 5478.9 | 5472.1 |
| 23.5° | 5002.3 | 5348.0 | 5482.7 | 5466.0 |
| 24° | 5068.3 | 5382.2 | 5469.3 | 5447.4 |
| 24.5° | 5102.6 | 5380.3 | 5448.4 | 5429.1 |
| 25° | 5137.7 | 5362.6 | 5435.9 | 5401.4 |
| 25.5° | 5177.7 | 5336.0 | 5426.0 | 5372.1 |
| 26° | 5191.4 | 5321.9 | 5404.1 | 5338.6 |
| 26.5° | 5190.2 | 5317.7 | 5370.0 | 5316.1 |
| 27° | 5173.4 | 5302.3 | 5330.2 | 5298.9 |
| 27.5° | 5141.9 | 5266.3 | 5311.6 | 5260.3 |
| 28° | 5121.7 | 5212.9 | 5290.9 | 5214.1 |
| 28.5° | 5107.7 | 5174.1 | 5259.6 | 5160.8 |
| 29° | 5089.1 | 5162.8 | 5210.0 | 5110.6 |
| 29.5° | 5062.5 | 5149.9 | 5149.1 | 5058.8 |
| 30° | 5020.1 | 5106.8 | 5093.2 | 5018.3 |
| 30.5° | 4972.6 | 5035.4 | 5049.9 | 4975.6 |
| 31° | 4940.6 | 4977.2 | 5018.5 | 4929.4 |
| 31.5° | 4916.3 | 4938.3 | 4984.2 | 4879.0 |
| 32° | 4888.7 | 4914.3 | 4928.7 | 4824.5 |
| 32.5° | 4838.3 | 4880.7 | 4858.4 | 4781.7 |
| 33° | 4773.0 | 4828.3 | 4798.8 | 4733.1 |
| 33.5° | 4723.6 | 4764.2 | 4749.3 | 4664.5 |
| 34° | 4686.4 | 4706.4 | 4698.2 | 4582.3 |
| 34.5° | 4649.1 | 4657.8 | 4628.1 | 4515.8 |
| 35° | 4599.4 | 4620.4 | 4565.0 | 4471.2 |
| 35.5° | 4538.8 | 4579.1 | 4513.3 | 4444.2 |
| 36° | 4482.2 | 4529.8 | 4477.3 | 4430.4 |
| 36.5° | 4436.6 | 4477.8 | 4461.5 | 4433.7 |
| 37° | 4397.4 | 4439.0 | 4455.3 | 4450.3 |
| 37.5° | 4366.9 | 4410.5 | 4463.7 | 4469.8 |
| 38° | 4334.0 | 4399.4 | 4479.9 | 4499.4 |
| 38.5° | 4299.0 | 4398.8 | 4506.5 | 4529.4 |
| 39° | 4261.1 | 4402.7 | 4539.1 | 4564.9 |
| 39.5° | 4227.0 | 4420.1 | 4576.1 | 4599.6 |
| 40° | 4205.4 | 4443.8 | 4616.1 | 4634.2 |
| 40.5° | 4191.6 | 4474.0 | 4658.2 | 4667.2 |
| 41° | 4186.6 | 4506.3 | 4696.6 | 4695.5 |
| 41.5° | 4185.8 | 4537.8 | 4722.2 | 4723.2 |
| 42° | 4196.5 | 4562.7 | 4745.0 | 4738.8 |
| 42.5° | 4209.1 | 4585.5 | 4768.7 | 4765.6 |
| 43° | 4216.2 | 4602.5 | 4797.7 | 4794.7 |
| 43.5° | 4227.8 | 4616.8 | 4820.3 | 4816.9 |
| 44° | 4240.1 | 4634.9 | 4835.2 | 4832.7 |
| 44.5° | 4249.6 | 4646.2 | 4857.2 | 4829.0 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 45° | 4260.2 | 4655.0 | 4862.2 | 4822.3 |
| 45.5° | 4269.7 | 4664.0 | 4852.8 | 4793.3 |
| 46° | 4277.1 | 4666.3 | 4835.7 | 4763.6 |
| 46.5° | 4278.6 | 4664.0 | 4796.4 | 4711.2 |
| 47° | 4281.7 | 4647.1 | 4757.4 | 4666.6 |
| 47.5° | 4278.7 | 4626.9 | 4713.8 | 4616.5 |
| 48° | 4271.1 | 4587.4 | 4671.1 | 4583.0 |
| 48.5° | 4263.3 | 4548.3 | 4631.2 | 4542.1 |
| 49° | 4248.2 | 4505.3 | 4580.1 | 4488.2 |
| 49.5° | 4231.1 | 4468.7 | 4526.9 | 4426.0 |
| 50° | 4206.7 | 4422.8 | 4461.8 | 4364.3 |
| 50.5° | 4185.7 | 4380.9 | 4400.1 | 4315.6 |
| 51° | 4146.5 | 4332.6 | 4340.1 | 4274.3 |
| 51.5° | 4107.6 | 4274.2 | 4291.3 | 4238.7 |
| 52° | 4064.1 | 4217.0 | 4243.6 | 4202.0 |
| 52.5° | 4024.0 | 4165.2 | 4204.2 | 4169.1 |
| 53° | 3985.4 | 4118.8 | 4163.0 | 4123.8 |
| 53.5° | 3944.2 | 4075.7 | 4114.0 | 4078.3 |
| 54° | 3902.3 | 4028.2 | 4070.0 | 4037.3 |
| 54.5° | 3853.5 | 3988.7 | 4025.3 | 3991.1 |
| 55° | 3805.7 | 3945.0 | 3977.8 | 3932.1 |
| 55.5° | 3761.3 | 3902.1 | 3912.4 | 3860.4 |
| 56° | 3723.2 | 3845.5 | 3839.3 | 3785.9 |
| 56.5° | 3681.3 | 3784.0 | 3760.5 | 3702.5 |
| 57° | 3628.6 | 3713.7 | 3688.3 | 3635.7 |
| 57.5° | 3569.4 | 3651.5 | 3619.6 | 3574.4 |
| 58° | 3511.3 | 3576.1 | 3552.6 | 3508.0 |
| 58.5° | 3455.8 | 3509.6 | 3485.7 | 3444.0 |
| 59° | 3395.0 | 3440.4 | 3416.7 | 3371.2 |
| 59.5° | 3326.2 | 3367.6 | 3341.4 | 3288.6 |
| 60° | 3257.0 | 3292.3 | 3260.7 | 3192.4 |
| 60.5° | 3187.4 | 3220.6 | 3175.9 | 3099.5 |
| 61° | 3117.6 | 3138.1 | 3083.6 | 3007.5 |
| 61.5° | 3051.0 | 3058.0 | 2996.7 | 2921.6 |
| 62° | 2975.3 | 2973.4 | 2911.3 | 2848.0 |
| 62.5° | 2903.1 | 2894.6 | 2833.9 | 2782.8 |
| 63° | 2832.2 | 2818.8 | 2774.5 | 2736.1 |
| 63.5° | 2759.0 | 2752.9 | 2720.2 | 2692.2 |
| 64° | 2688.1 | 2685.6 | 2669.1 | 2644.1 |
| 64.5° | 2624.2 | 2631.7 | 2616.0 | 2591.8 |
| 65° | 2563.6 | 2578.5 | 2562.2 | 2540.0 |
| 65.5° | 2503.4 | 2519.6 | 2500.8 | 2469.5 |
| 66° | 2445.8 | 2456.8 | 2435.6 | 2389.8 |
| 66.5° | 2388.3 | 2394.0 | 2367.7 | 2313.2 |
| 67° | 2326.9 | 2325.1 | 2293.3 | 2241.9 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 67.5° | 2267.3 | 2252.9 | 2220.7 | 2175.8 |
| 68° | 2203.7 | 2181.6 | 2161.3 | 2116.6 |
| 68.5° | 2134.6 | 2118.6 | 2104.9 | 2058.8 |
| 69° | 2066.2 | 2055.1 | 2048.0 | 2005.2 |
| 69.5° | 2003.0 | 1995.9 | 1991.6 | 1945.6 |
| 70° | 1940.5 | 1934.7 | 1930.3 | 1879.4 |
| 70.5° | 1879.2 | 1874.6 | 1866.6 | 1814.3 |
| 71° | 1817.2 | 1814.8 | 1804.0 | 1751.1 |
| 71.5° | 1756.8 | 1751.1 | 1739.5 | 1688.1 |
| 72° | 1694.1 | 1689.9 | 1676.0 | 1631.4 |
| 72.5° | 1634.3 | 1631.0 | 1616.0 | 1574.9 |
| 73° | 1575.7 | 1566.7 | 1554.6 | 1512.9 |
| 73.5° | 1517.9 | 1502.6 | 1491.8 | 1450.4 |
| 74° | 1457.9 | 1443.5 | 1427.7 | 1389.3 |
| 74.5° | 1394.8 | 1384.7 | 1362.8 | 1318.5 |
| 75° | 1336.0 | 1318.1 | 1299.8 | 1249.7 |
| 75.5° | 1275.6 | 1256.4 | 1236.8 | 1182.1 |
| 76° | 1215.3 | 1194.6 | 1173.8 | 1114.4 |
| 76.5° | 1154.9 | 1132.8 | 1110.7 | 1049.9 |
| 77° | 1094.6 | 1071.1 | 1047.7 | 989.0 |
| 77.5° | 1034.5 | 1009.4 | 983.2 | 928.5 |
| 78° | 979.3 | 950.4 | 923.3 | 871.1 |
| 78.5° | 923.4 | 892.6 | 863.8 | 817.5 |
| 79° | 866.2 | 835.5 | 807.9 | 765.9 |
| 79.5° | 810.1 | 777.1 | 755.0 | 713.2 |
| 80° | 753.6 | 724.7 | 706.9 | 669.0 |
| 80.5° | 701.4 | 675.5 | 659.5 | 625.6 |
| 81° | 652.5 | 630.6 | 617.3 | 584.8 |
| 81.5° | 604.0 | 589.6 | 579.7 | 549.1 |
| 82° | 560.9 | 550.4 | 542.4 | 514.3 |
| 82.5° | 519.1 | 511.8 | 504.5 | 479.6 |
| 83° | 480.6 | 478.4 | 471.3 | 444.8 |
| 83.5° | 445.7 | 444.1 | 438.0 | 410.0 |
| 84° | 413.7 | 409.6 | 404.4 | 375.2 |
| 84.5° | 383.9 | 378.7 | 373.4 | 346.2 |
| 85° | 356.1 | 350.8 | 344.2 | 318.4 |
| 85.5° | 329.5 | 322.3 | 317.3 | 294.6 |
| 86° | 305.0 | 297.5 | 293.4 | 272.9 |
| 86.5° | 282.4 | 275.1 | 270.5 | 253.1 |
| 87° | 261.4 | 254.0 | 250.5 | 235.4 |
| 87.5° | 240.9 | 236.0 | 234.1 | 220.2 |
| 88° | 223.6 | 219.5 | 218.8 | 206.2 |
| 88.5° | 207.4 | 204.6 | 204.9 | 194.4 |
| 89° | 193.7 | 192.4 | 193.3 | 183.7 |
| 89.5° | 181.0 | 180.9 | 182.4 | 174.0 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|--------|-------|-------|-------|-------|
| 90° | 169.9 | 170.8 | 172.6 | 165.9 |
| 90.5° | 160.3 | 162.6 | 164.9 | 158.5 |
| 91° | 152.5 | 155.3 | 157.8 | 152.1 |
| 91.5° | 145.1 | 148.9 | 151.5 | 146.9 |
| 92° | 138.0 | 143.1 | 146.5 | 142.1 |
| 92.5° | 134.0 | 137.2 | 141.1 | 136.6 |
| 93° | 129.9 | 131.7 | 135.6 | 131.5 |
| 93.5° | 125.9 | 129.0 | 131.2 | 128.0 |
| 94° | 121.8 | 126.4 | 129.2 | 125.4 |
| 94.5° | 117.8 | 123.7 | 127.2 | 123.3 |
| 95° | 115.6 | 121.1 | 125.1 | 121.7 |
| 95.5° | 113.8 | 119.2 | 123.1 | 120.1 |
| 96° | 112.0 | 117.5 | 121.1 | 118.3 |
| 96.5° | 110.5 | 116.3 | 119.7 | 117.2 |
| 97° | 109.3 | 115.1 | 118.7 | 116.4 |
| 97.5° | 108.1 | 114.1 | 117.8 | 115.8 |
| 98° | 107.3 | 113.4 | 117.0 | 115.0 |
| 98.5° | 106.5 | 112.7 | 116.2 | 114.1 |
| 99° | 105.7 | 111.9 | 115.4 | 113.5 |
| 99.5° | 104.9 | 111.2 | 114.7 | 112.8 |
| 100° | 104.3 | 110.4 | 113.9 | 111.9 |
| 100.5° | 103.7 | 109.7 | 113.1 | 111.0 |
| 101° | 102.5 | 109.0 | 112.3 | 110.1 |
| 101.5° | 101.4 | 107.3 | 110.9 | 108.1 |
| 102° | 101.2 | 105.9 | 108.7 | 106.5 |
| 102.5° | 101.5 | 105.7 | 107.5 | 105.7 |
| 103° | 101.3 | 106.1 | 107.5 | 106.0 |
| 103.5° | 101.0 | 105.8 | 107.8 | 105.9 |
| 104° | 100.7 | 105.2 | 107.3 | 105.5 |
| 104.5° | 100.4 | 104.8 | 106.7 | 104.8 |
| 105° | 100.1 | 104.3 | 106.0 | 104.2 |
| 105.5° | 99.9 | 103.9 | 105.4 | 103.6 |
| 106° | 99.6 | 103.4 | 104.8 | 102.9 |
| 106.5° | 99.5 | 103.1 | 104.4 | 102.4 |
| 107° | 99.3 | 102.8 | 104.0 | 102.1 |
| 107.5° | 99.1 | 102.5 | 103.6 | 101.7 |
| 108° | 98.9 | 102.2 | 103.2 | 101.2 |
| 108.5° | 98.5 | 101.8 | 102.7 | 100.5 |
| 109° | 98.0 | 101.3 | 102.1 | 99.8 |
| 109.5° | 97.5 | 100.6 | 101.4 | 99.0 |
| 110° | 96.9 | 100.0 | 100.7 | 98.1 |
| 110.5° | 96.5 | 99.3 | 99.9 | 97.2 |
| 111° | 96.0 | 98.7 | 99.0 | 96.3 |
| 111.5° | 95.5 | 98.1 | 98.3 | 95.5 |
| 112° | 95.1 | 97.5 | 97.6 | 94.7 |



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 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|--------|------|------|------|------|
| 112.5° | 94.6 | 96.8 | 96.8 | 93.9 |
| 113° | 94.2 | 96.2 | 96.1 | 93.1 |
| 113.5° | 93.9 | 95.6 | 95.4 | 92.5 |
| 114° | 93.6 | 95.0 | 94.7 | 91.9 |
| 114.5° | 93.4 | 94.5 | 94.1 | 91.4 |
| 115° | 93.3 | 94.1 | 93.5 | 90.8 |
| 115.5° | 93.2 | 93.7 | 93.0 | 90.2 |
| 116° | 93.2 | 93.4 | 92.5 | 89.6 |
| 116.5° | 93.1 | 93.3 | 92.1 | 89.1 |
| 117° | 93.1 | 93.1 | 91.8 | 88.7 |
| 117.5° | 93.1 | 93.1 | 91.5 | 88.5 |
| 118° | 93.1 | 93.0 | 91.4 | 88.3 |
| 118.5° | 93.1 | 93.0 | 91.3 | 88.2 |
| 119° | 93.1 | 93.0 | 91.2 | 88.0 |
| 119.5° | 93.0 | 93.1 | 91.2 | 88.1 |
| 120° | 92.9 | 93.1 | 91.2 | 88.1 |
| 120.5° | 92.8 | 93.1 | 91.3 | 88.3 |
| 121° | 92.8 | 93.1 | 91.4 | 88.4 |
| 121.5° | 92.8 | 93.1 | 91.4 | 88.5 |
| 122° | 92.8 | 93.1 | 91.4 | 88.6 |
| 122.5° | 92.8 | 93.1 | 91.4 | 88.7 |
| 123° | 92.7 | 93.1 | 91.4 | 88.9 |
| 123.5° | 92.7 | 93.1 | 91.5 | 89.1 |
| 124° | 92.7 | 93.2 | 91.6 | 89.2 |
| 124.5° | 92.6 | 93.2 | 91.7 | 89.5 |
| 125° | 92.7 | 93.3 | 91.8 | 89.6 |
| 125.5° | 92.7 | 93.4 | 91.9 | 89.9 |
| 126° | 92.7 | 93.4 | 92.0 | 90.1 |
| 126.5° | 92.8 | 93.5 | 92.2 | 90.4 |
| 127° | 92.8 | 93.6 | 92.2 | 90.4 |
| 127.5° | 92.8 | 93.8 | 92.2 | 90.4 |
| 128° | 92.9 | 93.9 | 92.2 | 90.4 |
| 128.5° | 93.0 | 94.0 | 92.2 | 90.4 |
| 129° | 93.0 | 94.1 | 92.2 | 90.5 |
| 129.5° | 93.1 | 94.2 | 92.2 | 90.4 |
| 130° | 93.1 | 94.3 | 92.2 | 90.4 |
| 130.5° | 93.0 | 94.3 | 92.1 | 90.3 |
| 131° | 93.0 | 94.3 | 92.1 | 90.2 |
| 131.5° | 92.9 | 94.2 | 92.0 | 90.1 |
| 132° | 92.9 | 94.1 | 91.9 | 90.0 |
| 132.5° | 92.7 | 94.0 | 91.7 | 89.7 |
| 133° | 92.6 | 93.8 | 91.5 | 89.4 |
| 133.5° | 92.4 | 93.6 | 91.1 | 89.0 |
| 134° | 92.1 | 93.3 | 90.8 | 88.5 |
| 134.5° | 91.8 | 93.0 | 90.3 | 88.0 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|--------|------|------|------|------|
| 135° | 91.4 | 92.6 | 89.8 | 87.4 |
| 135.5° | 91.0 | 92.2 | 89.4 | 86.7 |
| 136° | 90.7 | 91.7 | 88.9 | 86.1 |
| 136.5° | 90.2 | 91.2 | 88.3 | 85.3 |
| 137° | 89.7 | 90.6 | 87.7 | 84.5 |
| 137.5° | 89.2 | 90.1 | 87.1 | 83.7 |
| 138° | 88.4 | 89.5 | 86.3 | 82.8 |
| 138.5° | 87.6 | 88.8 | 85.6 | 81.9 |
| 139° | 86.3 | 88.2 | 84.9 | 81.0 |
| 139.5° | 85.7 | 87.5 | 84.2 | 80.4 |
| 140° | 85.1 | 86.6 | 83.5 | 79.6 |
| 140.5° | 84.5 | 85.7 | 82.8 | 78.8 |
| 141° | 84.0 | 84.5 | 82.0 | 77.9 |
| 141.5° | 83.4 | 83.4 | 81.0 | 76.8 |
| 142° | 82.7 | 82.8 | 80.0 | 75.6 |
| 142.5° | 82.0 | 82.2 | 78.1 | 73.3 |
| 143° | 81.2 | 81.6 | 77.3 | 72.5 |
| 143.5° | 80.5 | 81.0 | 76.6 | 72.1 |
| 144° | 79.6 | 80.3 | 75.9 | 71.5 |
| 144.5° | 78.7 | 79.6 | 75.2 | 70.9 |
| 145° | 77.8 | 78.8 | 74.5 | 70.4 |
| 145.5° | 76.8 | 78.1 | 73.7 | 69.7 |
| 146° | 75.8 | 77.2 | 72.9 | 69.0 |
| 146.5° | 74.8 | 76.3 | 72.0 | 68.4 |
| 147° | 73.8 | 75.4 | 71.2 | 67.6 |
| 147.5° | 72.7 | 74.4 | 70.3 | 66.9 |
| 148° | 71.5 | 73.4 | 69.4 | 66.2 |
| 148.5° | 70.5 | 72.4 | 68.5 | 65.4 |
| 149° | 69.3 | 71.2 | 67.6 | 64.6 |
| 149.5° | 68.1 | 70.1 | 66.6 | 63.7 |
| 150° | 66.8 | 69.0 | 65.7 | 62.9 |
| 150.5° | 65.5 | 67.7 | 64.7 | 62.1 |
| 151° | 64.2 | 66.5 | 63.7 | 61.1 |
| 151.5° | 63.0 | 65.3 | 62.7 | 60.1 |
| 152° | 61.7 | 63.9 | 61.5 | 59.1 |
| 152.5° | 60.4 | 62.6 | 60.4 | 58.1 |
| 153° | 59.1 | 61.3 | 59.2 | 56.9 |
| 153.5° | 57.7 | 59.9 | 58.0 | 56.5 |
| 154° | 56.2 | 58.5 | 56.8 | 55.4 |
| 154.5° | 54.9 | 57.1 | 55.7 | 54.3 |
| 155° | 53.5 | 55.7 | 54.5 | 53.2 |
| 155.5° | 52.1 | 54.3 | 53.3 | 52.1 |
| 156° | 50.7 | 52.9 | 52.1 | 51.0 |
| 156.5° | 49.2 | 51.5 | 50.9 | 49.8 |
| 157° | 47.6 | 50.0 | 49.7 | 48.7 |



REPORT NUMBER: P973039
 CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|--------|------|------|------|------|
| 157.5° | 46.2 | 48.6 | 48.6 | 47.5 |
| 158° | 44.7 | 47.0 | 47.2 | 46.2 |
| 158.5° | 43.2 | 45.5 | 45.9 | 44.9 |
| 159° | 41.8 | 44.0 | 44.6 | 43.5 |
| 159.5° | 40.3 | 42.5 | 43.3 | 42.2 |
| 160° | 38.8 | 41.1 | 41.9 | 40.9 |
| 160.5° | 37.3 | 39.7 | 40.6 | 39.5 |
| 161° | 35.4 | 38.2 | 39.3 | 38.2 |
| 161.5° | 32.8 | 36.7 | 38.0 | 37.0 |
| 162° | 30.4 | 35.2 | 36.7 | 35.6 |
| 162.5° | 27.9 | 33.1 | 35.2 | 34.2 |
| 163° | 25.3 | 30.3 | 33.7 | 32.7 |
| 163.5° | 23.1 | 27.8 | 31.5 | 30.3 |
| 164° | 20.9 | 25.2 | 28.7 | 27.7 |
| 164.5° | 18.8 | 22.7 | 26.0 | 25.1 |
| 165° | 16.8 | 20.4 | 23.5 | 22.6 |
| 165.5° | 15.0 | 18.3 | 21.1 | 20.1 |
| 166° | 13.2 | 16.4 | 18.8 | 17.9 |
| 166.5° | 11.4 | 14.5 | 16.8 | 15.9 |
| 167° | 9.6 | 12.6 | 14.8 | 14.0 |
| 167.5° | 7.9 | 10.7 | 12.9 | 12.1 |
| 168° | 7.5 | 8.8 | 10.9 | 10.0 |
| 168.5° | 7.1 | 7.0 | 9.0 | 7.9 |
| 169° | 6.7 | 6.7 | 7.1 | 6.1 |
| 169.5° | 6.4 | 6.4 | 6.6 | 5.7 |
| 170° | 6.1 | 6.1 | 6.4 | 5.5 |
| 170.5° | 5.8 | 5.9 | 6.2 | 5.2 |
| 171° | 5.5 | 5.7 | 6.0 | 4.9 |
| 171.5° | 5.3 | 5.5 | 5.8 | 4.7 |
| 172° | 5.1 | 5.4 | 5.6 | 4.5 |
| 172.5° | 5.0 | 5.2 | 5.5 | 4.3 |
| 173° | 4.8 | 5.0 | 5.3 | 4.2 |
| 173.5° | 4.7 | 4.8 | 5.2 | 4.0 |
| 174° | 4.6 | 4.7 | 5.0 | 3.9 |
| 174.5° | 4.5 | 4.6 | 4.9 | 3.8 |
| 175° | 4.4 | 4.6 | 4.7 | 3.6 |
| 175.5° | 4.4 | 4.5 | 4.6 | 3.5 |
| 176° | 4.3 | 4.5 | 4.6 | 3.5 |
| 176.5° | 4.3 | 4.4 | 4.5 | 3.4 |
| 177° | 4.3 | 4.4 | 4.5 | 3.4 |
| 177.5° | 4.3 | 4.4 | 4.6 | 3.4 |
| 178° | 4.4 | 4.5 | 4.6 | 3.4 |
| 178.5° | 4.4 | 4.5 | 4.6 | 3.4 |
| 179° | 4.4 | 4.5 | 4.7 | 3.5 |
| 179.5° | 4.5 | 4.6 | 4.7 | 3.5 |



REPORT NUMBER: P973039
CATALOG NUMBER: WP-6984-70W-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|------|------|------|------|------|
| 180° | 3.6 | 3.6 | 3.6 | 3.6 |

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2410-249-3

Test Date: 10/24/2024

Luminaire Tested: WP-6984-5000K-H (100W)

Data in this report applies to families of products including WP-6984-5000K-H (100W)

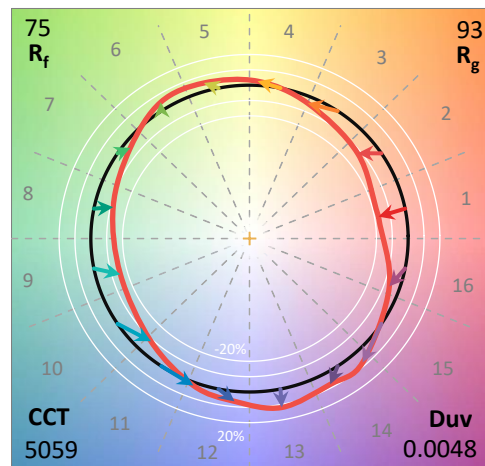
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2410-249-3
 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-6984-5000K-H (100W)**
 Description: DIALITE SQLED WALL PACK SAMPLE 100w-5000K HIGH OUTPUT

Spectral Parameters

CCT (K): 5059
 CIE u': 0.2074
 CIE v': 0.4889
 Duv: 0.0048
 CIE x: 0.3443
 CIE y: 0.3607
 CIE z: 0.2950
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 567
 Purity: 11.54572
 R_f: 75.2
 R_g: 92.6

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 73.2 | | |
| R1: | 69.7 | R9: | -30.7 |
| R2: | 79.2 | R10: | 49.5 |
| R3: | 85.2 | R11: | 67.6 |
| R4: | 72.0 | R12: | 41.7 |
| R5: | 70.1 | R13: | 71.6 |
| R6: | 70.4 | R14: | 91.6 |
| R7: | 82.8 | R15: | 63.3 |
| R8: | 55.8 | | |



Test Conditions

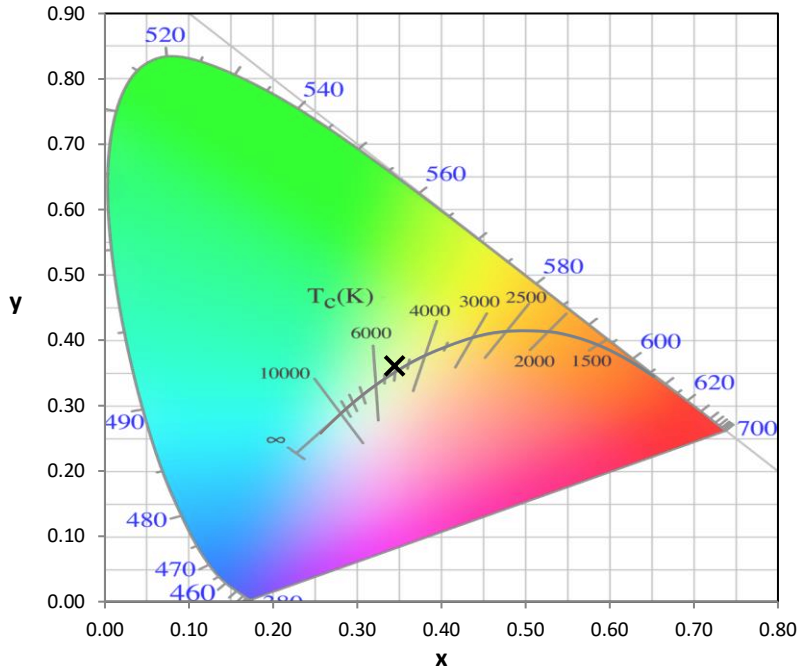
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-3

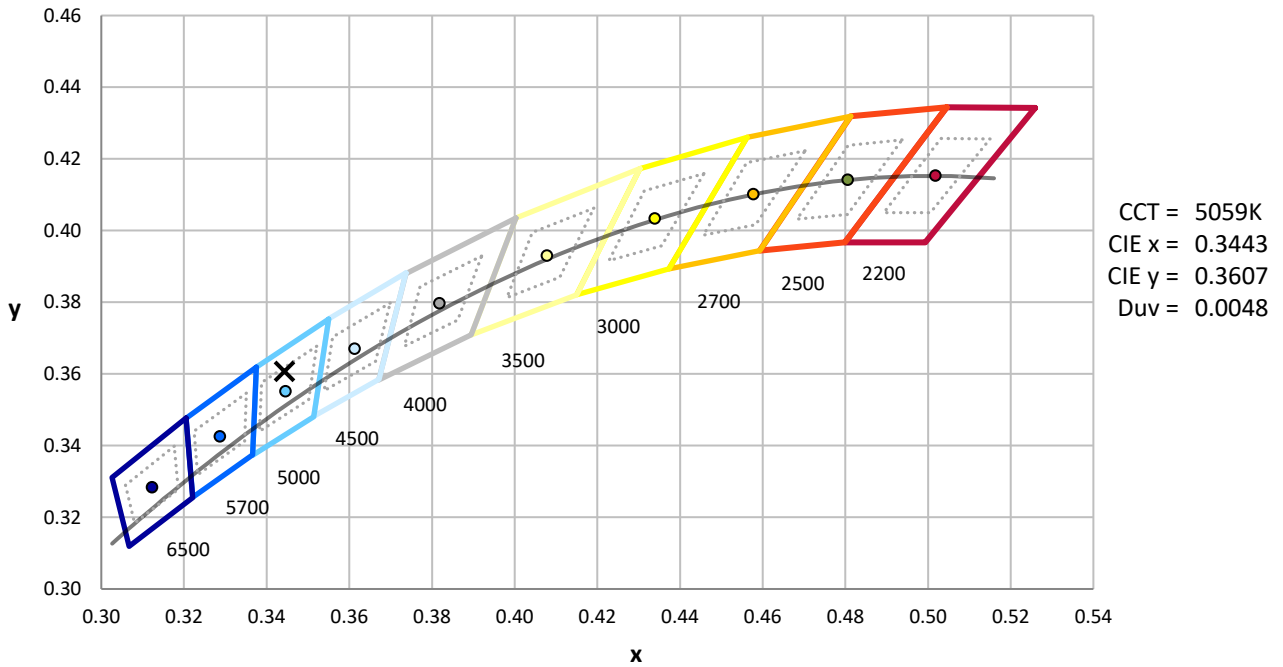
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 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: SP1-2410-249-3

CIE 1931 Chromaticity Diagram



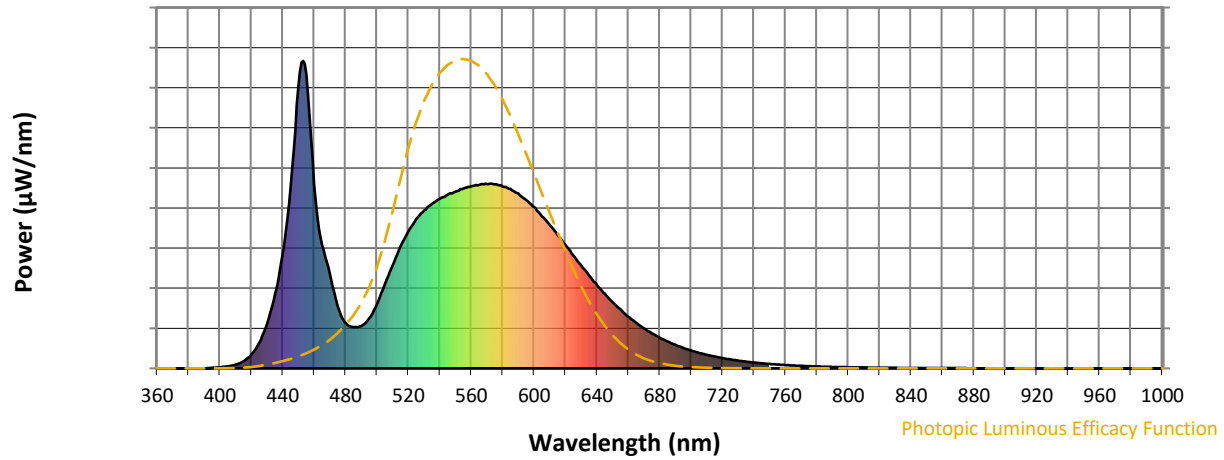
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-3

Photopic Flux vs. Wavelength

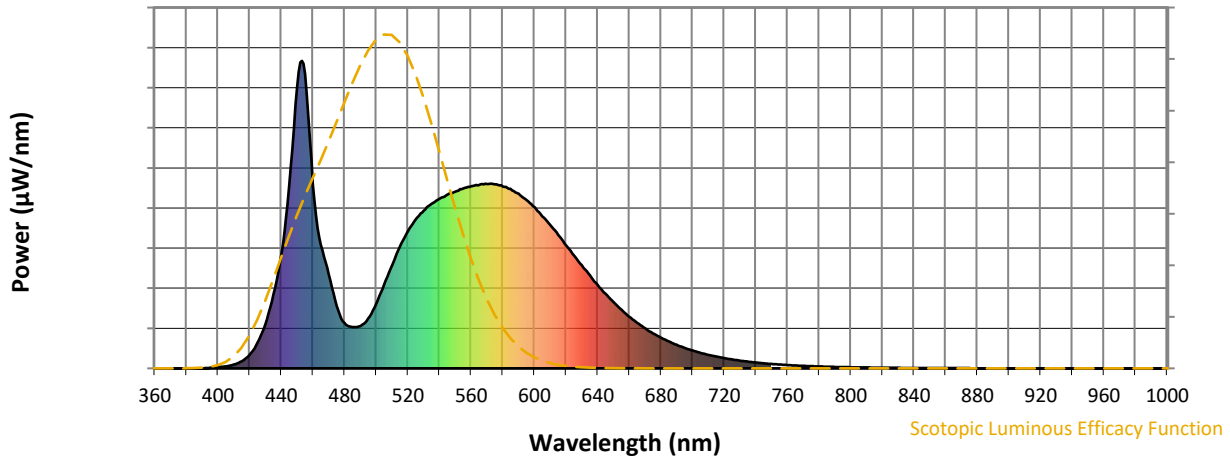


Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 138 | NR | 620 | 401 | NR | 750 | 14 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 162 | NR | 625 | 367 | NR | 755 | 12 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 209 | NR | 630 | 335 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 273 | NR | 635 | 302 | NR | 765 | 9 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 271 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 396 | NR | 645 | 242 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 445 | NR | 650 | 215 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 485 | NR | 655 | 191 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 513 | NR | 660 | 168 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 535 | NR | 665 | 148 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 551 | NR | 670 | 130 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 565 | NR | 675 | 114 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 45 | NR | 550 | 575 | NR | 680 | 100 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 83 | NR | 555 | 584 | NR | 685 | 87 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 144 | NR | 560 | 592 | NR | 690 | 77 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 240 | NR | 565 | 596 | NR | 695 | 67 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 372 | NR | 570 | 599 | NR | 700 | 58 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 592 | NR | 575 | 599 | NR | 705 | 51 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 915 | NR | 580 | 591 | NR | 710 | 44 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 957 | NR | 585 | 583 | NR | 715 | 38 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 599 | NR | 590 | 568 | NR | 720 | 33 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 402 | NR | 595 | 547 | NR | 725 | 29 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 305 | NR | 600 | 524 | NR | 730 | 25 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 202 | NR | 605 | 495 | NR | 735 | 22 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 147 | NR | 610 | 466 | NR | 740 | 19 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 134 | NR | 615 | 433 | NR | 745 | 16 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2410-249-3

Scotopic Flux vs. Wavelength



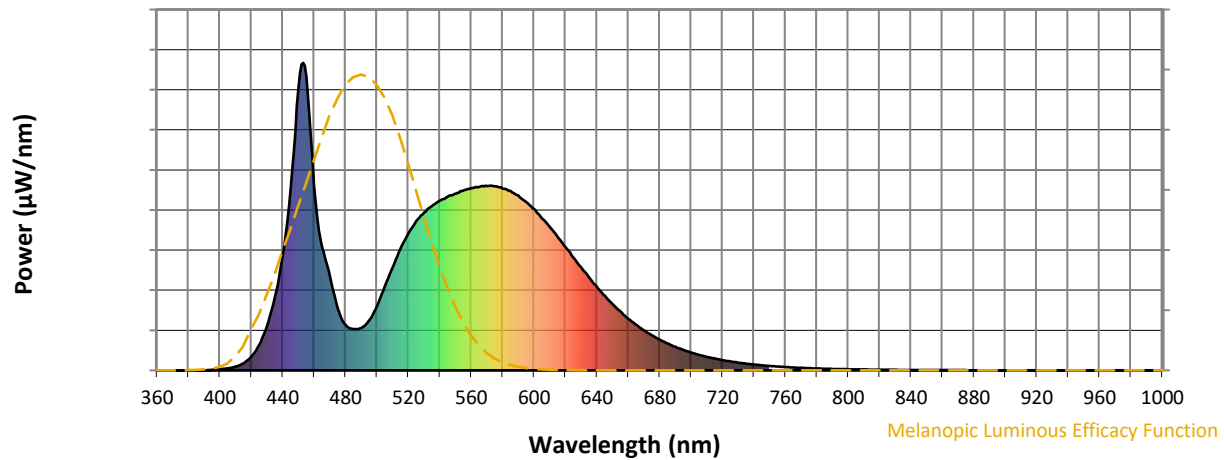
Scotopic Lumens: NR

S/P: 1.82

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 138 | NR | 620 | 401 | NR | 750 | 14 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 162 | NR | 625 | 367 | NR | 755 | 12 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 209 | NR | 630 | 335 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 273 | NR | 635 | 302 | NR | 765 | 9 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 271 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 396 | NR | 645 | 242 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 445 | NR | 650 | 215 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 485 | NR | 655 | 191 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 513 | NR | 660 | 168 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 535 | NR | 665 | 148 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 551 | NR | 670 | 130 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 565 | NR | 675 | 114 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 45 | NR | 550 | 575 | NR | 680 | 100 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 83 | NR | 555 | 584 | NR | 685 | 87 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 144 | NR | 560 | 592 | NR | 690 | 77 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 240 | NR | 565 | 596 | NR | 695 | 67 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 372 | NR | 570 | 599 | NR | 700 | 58 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 592 | NR | 575 | 599 | NR | 705 | 51 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 915 | NR | 580 | 591 | NR | 710 | 44 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 957 | NR | 585 | 583 | NR | 715 | 38 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 599 | NR | 590 | 568 | NR | 720 | 33 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 402 | NR | 595 | 547 | NR | 725 | 29 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 305 | NR | 600 | 524 | NR | 730 | 25 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 202 | NR | 605 | 495 | NR | 735 | 22 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 147 | NR | 610 | 466 | NR | 740 | 19 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 134 | NR | 615 | 433 | NR | 745 | 16 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2410-249-3

Melanopic Flux vs. Wavelength



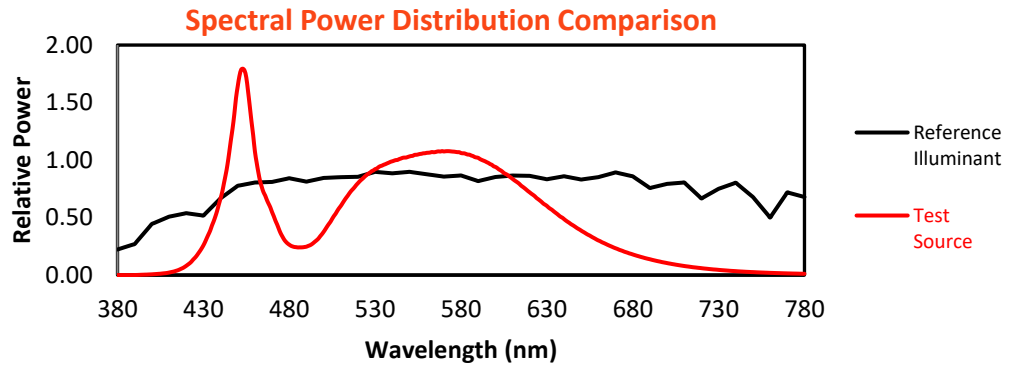
Melanopic Lumens: NR

M/P: 3.76

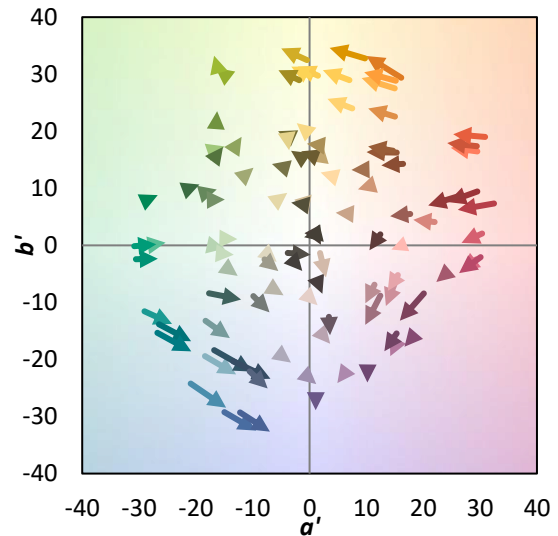
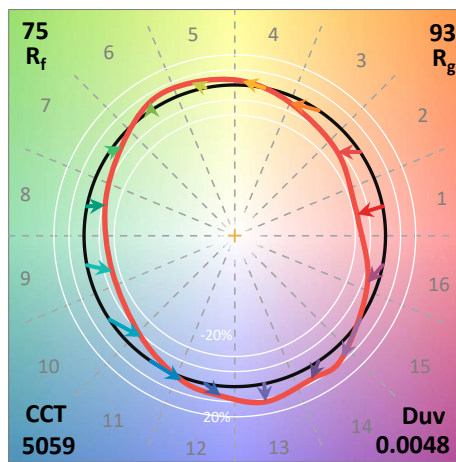
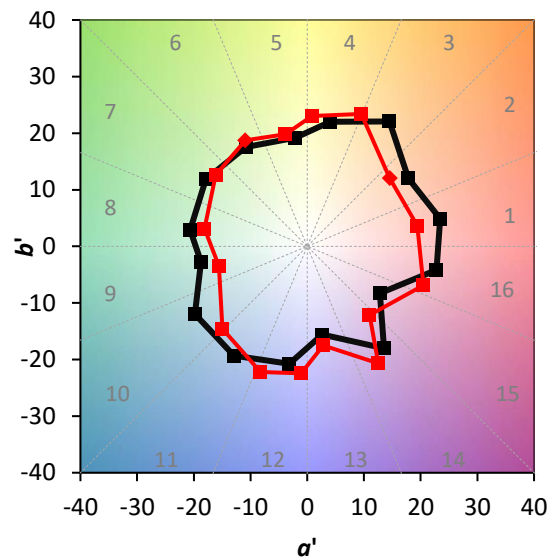
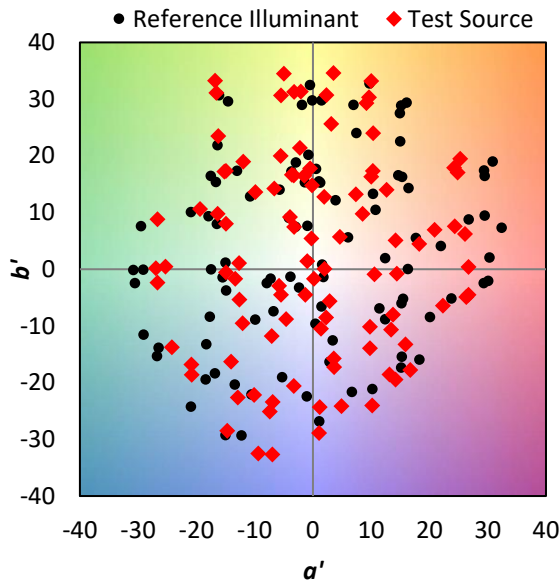
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 138 | NR | 620 | 401 | NR | 750 | 14 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 162 | NR | 625 | 367 | NR | 755 | 12 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 209 | NR | 630 | 335 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 273 | NR | 635 | 302 | NR | 765 | 9 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 271 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 396 | NR | 645 | 242 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 445 | NR | 650 | 215 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 485 | NR | 655 | 191 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 513 | NR | 660 | 168 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 535 | NR | 665 | 148 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 551 | NR | 670 | 130 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 565 | NR | 675 | 114 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 45 | NR | 550 | 575 | NR | 680 | 100 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 83 | NR | 555 | 584 | NR | 685 | 87 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 144 | NR | 560 | 592 | NR | 690 | 77 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 240 | NR | 565 | 596 | NR | 695 | 67 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 372 | NR | 570 | 599 | NR | 700 | 58 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 592 | NR | 575 | 599 | NR | 705 | 51 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 915 | NR | 580 | 591 | NR | 710 | 44 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 957 | NR | 585 | 583 | NR | 715 | 38 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 599 | NR | 590 | 568 | NR | 720 | 33 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 402 | NR | 595 | 547 | NR | 725 | 29 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 305 | NR | 600 | 524 | NR | 730 | 25 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 202 | NR | 605 | 495 | NR | 735 | 22 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 147 | NR | 610 | 466 | NR | 740 | 19 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 134 | NR | 615 | 433 | NR | 745 | 16 | NR | 875 | 1 | NR | | | |

Summary

$R_f = 75.2$
 $R_g = 92.6$
 $CIE R_a = 73.2$
 $R_9 = -30.7$

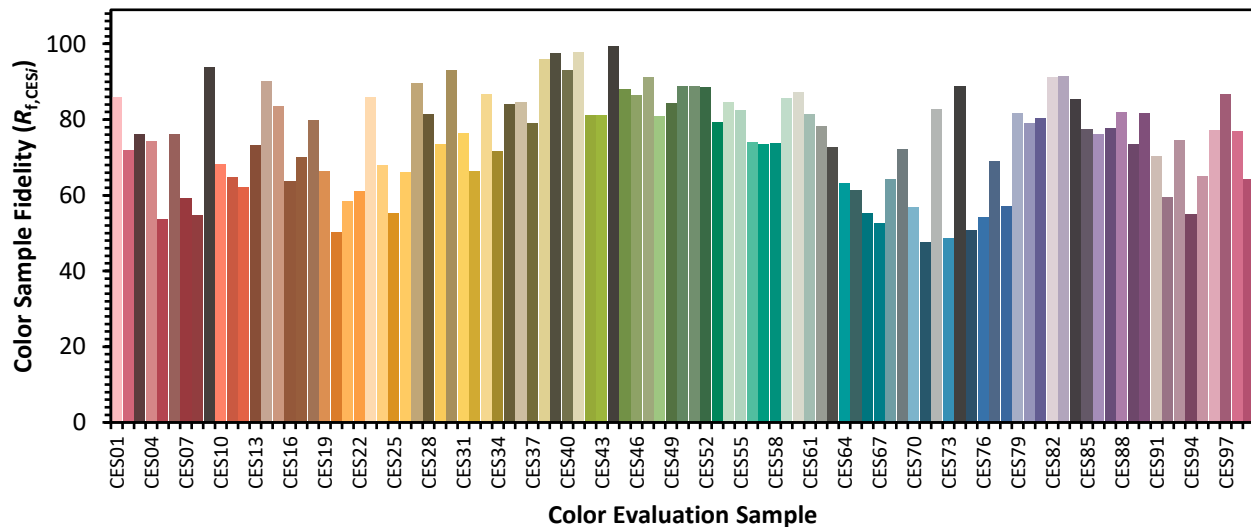


Color Vector Graphics

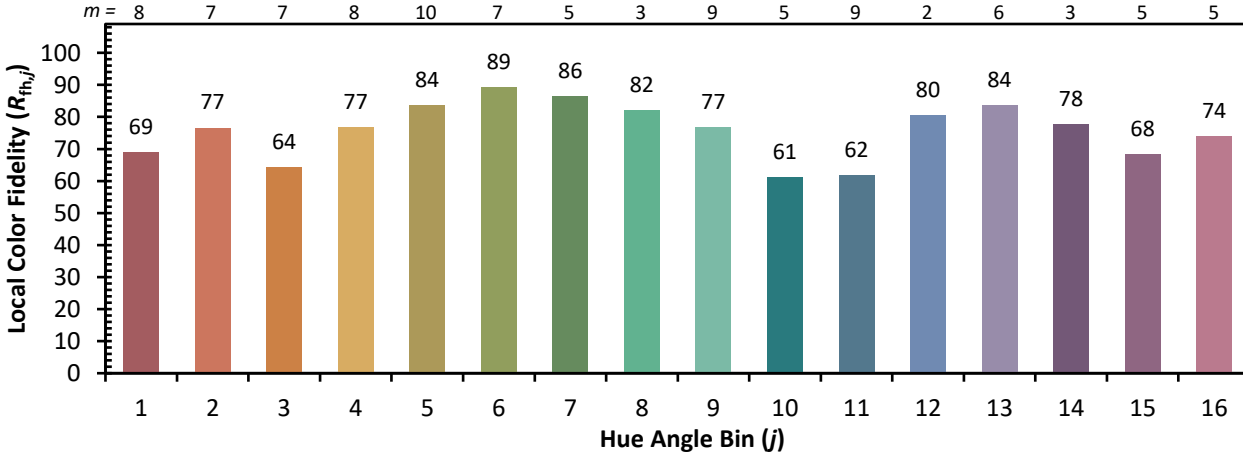
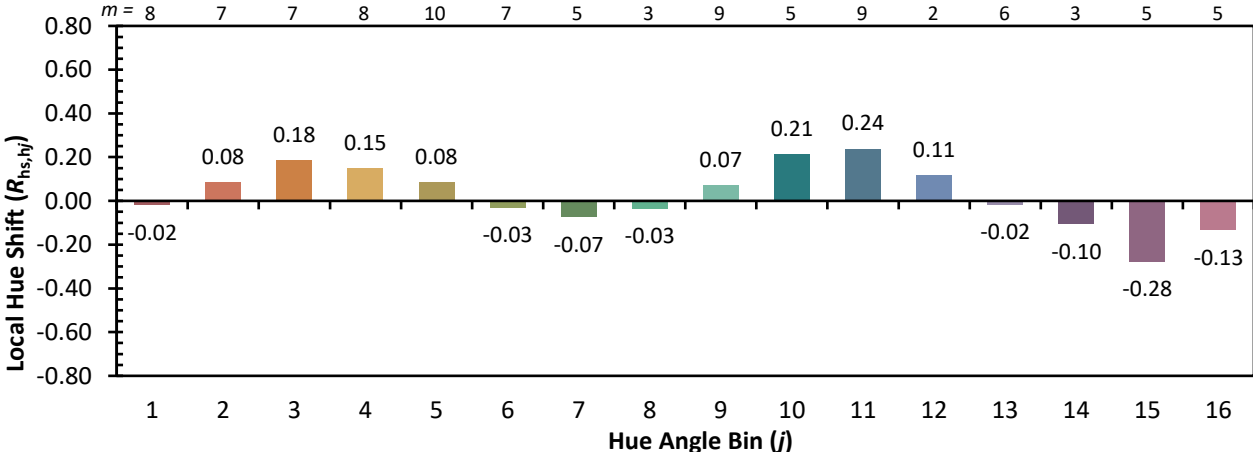
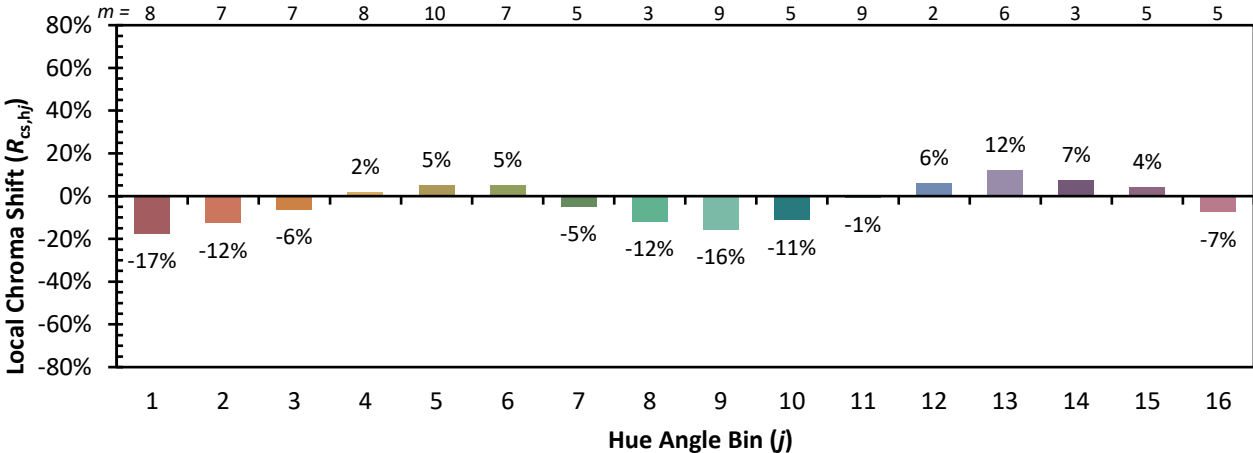


Individual Sample Fidelity Index ($R_{f,i}$)

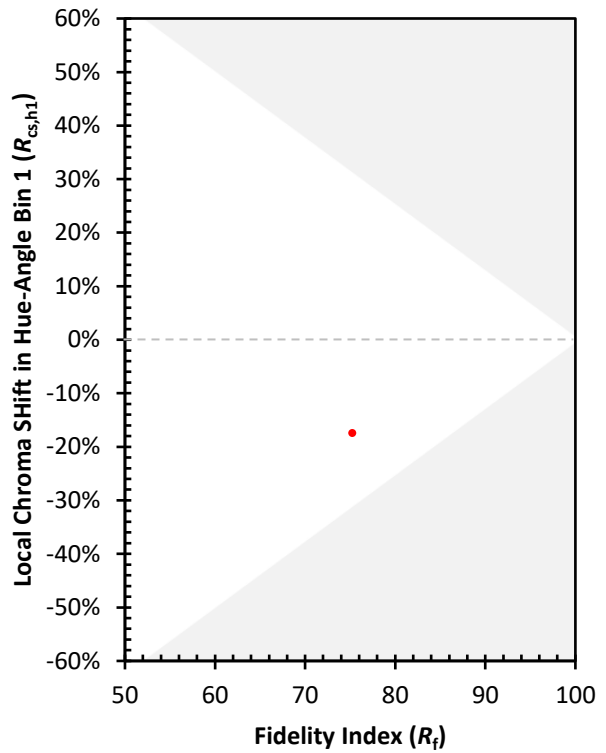
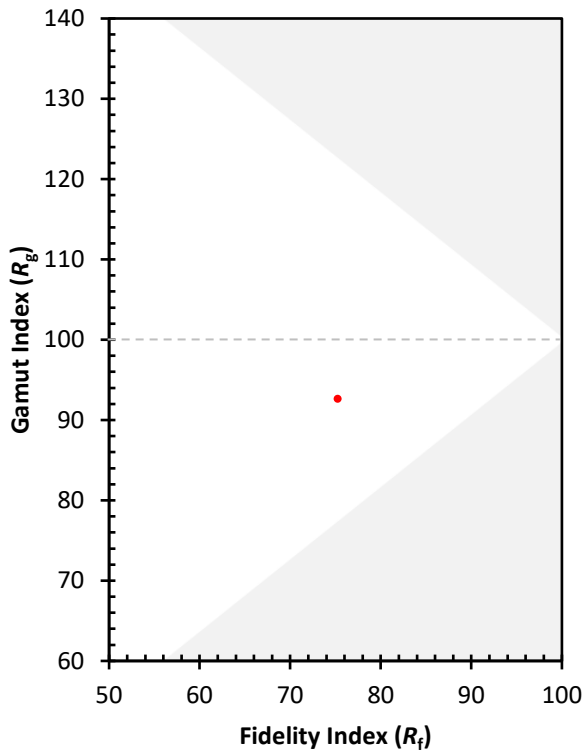
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 66 | CES51 = 89 | CES76 = 54 |
| CES02 = 59 | CES27 = 90 | CES52 = 88 | CES77 = 69 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 57 |
| CES04 = 69 | CES29 = 74 | CES54 = 85 | CES79 = 82 |
| CES05 = 46 | CES30 = 93 | CES55 = 82 | CES80 = 79 |
| CES06 = 50 | CES31 = 76 | CES56 = 74 | CES81 = 80 |
| CES07 = 39 | CES32 = 66 | CES57 = 74 | CES82 = 91 |
| CES08 = 38 | CES33 = 87 | CES58 = 74 | CES83 = 92 |
| CES09 = 29 | CES34 = 72 | CES59 = 86 | CES84 = 86 |
| CES10 = 72 | CES35 = 84 | CES60 = 87 | CES85 = 77 |
| CES11 = 55 | CES36 = 85 | CES61 = 82 | CES86 = 76 |
| CES12 = 61 | CES37 = 79 | CES62 = 78 | CES87 = 78 |
| CES13 = 41 | CES38 = 96 | CES63 = 73 | CES88 = 82 |
| CES14 = 74 | CES39 = 98 | CES64 = 63 | CES89 = 73 |
| CES15 = 70 | CES40 = 93 | CES65 = 61 | CES90 = 82 |
| CES16 = 46 | CES41 = 98 | CES66 = 55 | CES91 = 70 |
| CES17 = 49 | CES42 = 81 | CES67 = 53 | CES92 = 59 |
| CES18 = 55 | CES43 = 81 | CES68 = 64 | CES93 = 75 |
| CES19 = 71 | CES44 = 99 | CES69 = 72 | CES94 = 55 |
| CES20 = 64 | CES45 = 88 | CES70 = 57 | CES95 = 65 |
| CES21 = 85 | CES46 = 86 | CES71 = 48 | CES96 = 77 |
| CES22 = 77 | CES47 = 91 | CES72 = 83 | CES97 = 87 |
| CES23 = 91 | CES48 = 81 | CES73 = 49 | CES98 = 77 |
| CES24 = 90 | CES49 = 84 | CES74 = 89 | CES99 = 64 |
| CES25 = 71 | CES50 = 89 | CES75 = 51 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)