

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: P973038

Luminaire Tested: **WP-6984-70W-4000K**

Issue Date: 03/12/2025



Test Information

Test Method: LM-79-08
Report Number: P973038
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 03/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WP-6984-70W-4000K
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @70W-4000K
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

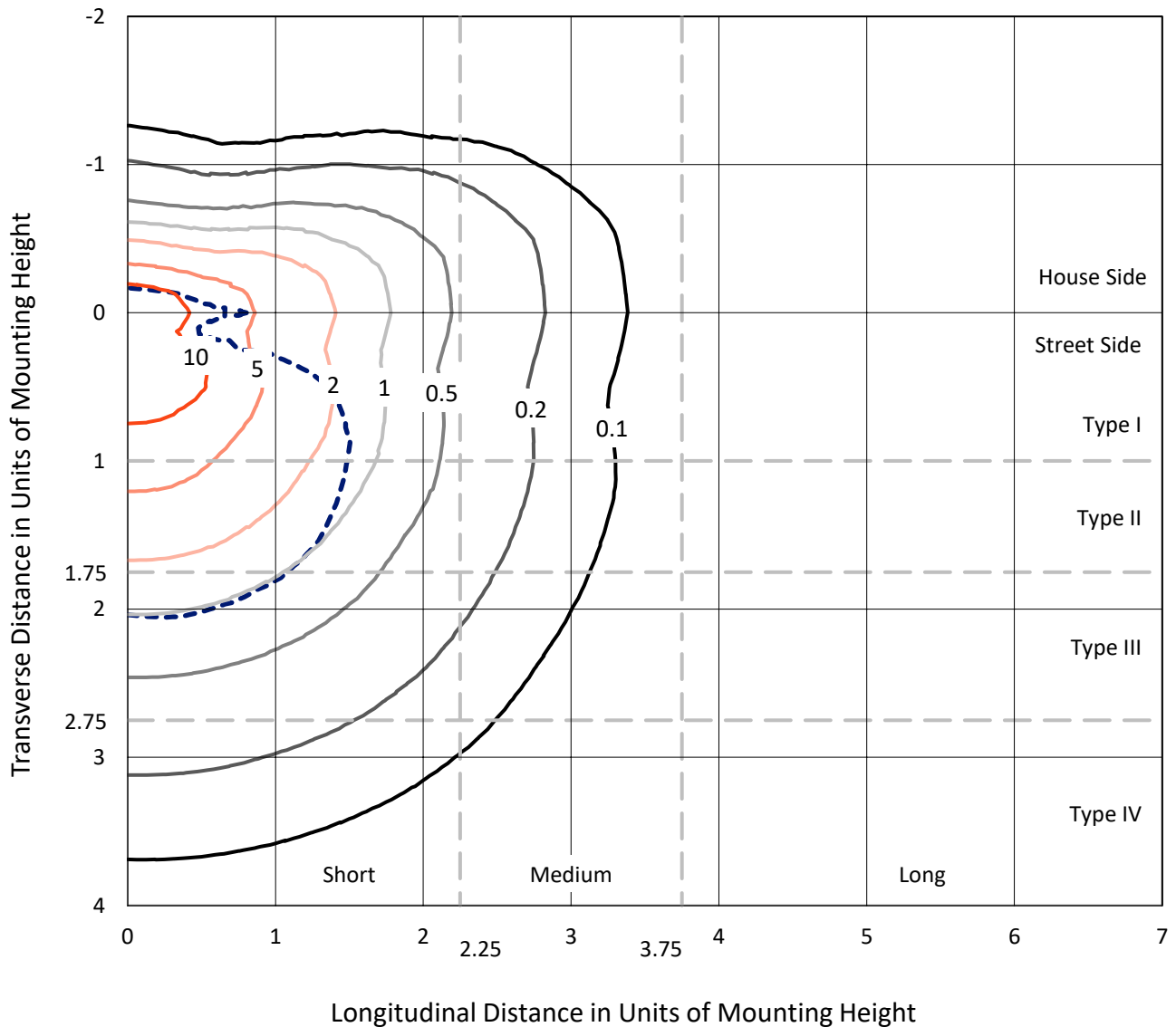
Lumens per Lamp: N/A
Luminaire Lumens: 9802.3 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G2

Input Watts (W): 67.5
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

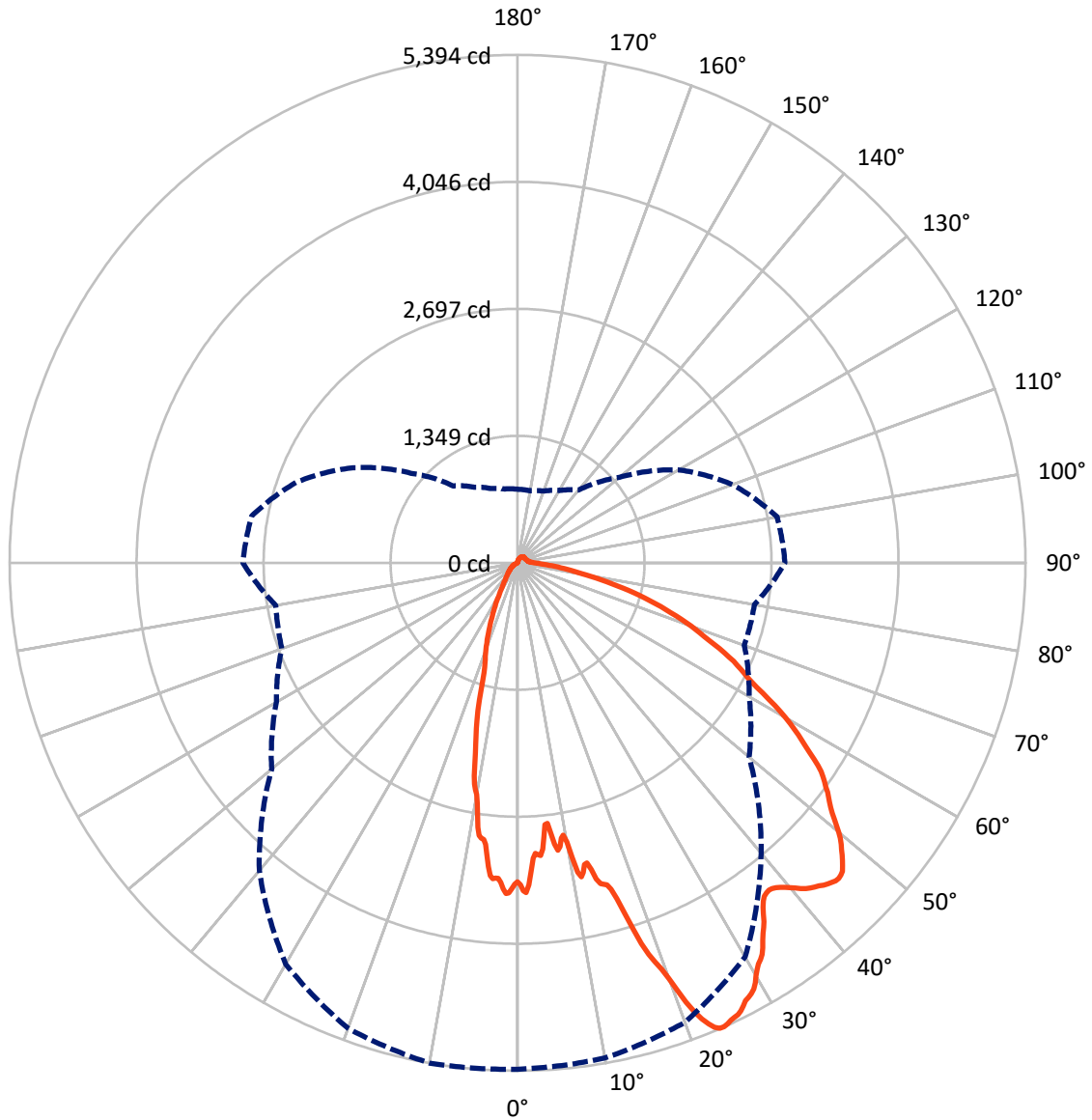
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 18.7 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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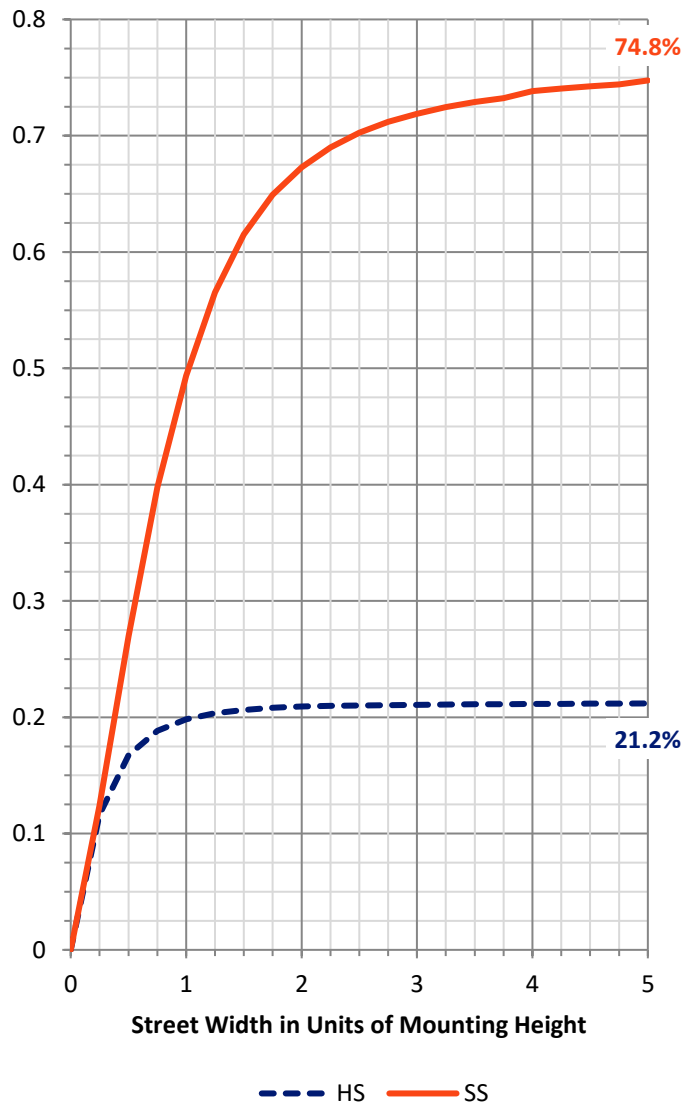
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2100.9	49.8	2150.7
	% Fixture	21.4	0.5	21.9
Street Side	Lumens	7407.3	244.3	7651.6
	% Fixture	75.6	2.5	78.1
Total	Lumens	9508.2	294.1	9802.3
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	3.1
10°-20°	794.0	8.1
20°-30°	1245.4	12.7
30°-40°	1503.7	15.3
40°-50°	1712.8	17.5
50°-60°	1701.3	17.4
60°-70°	1302.3	13.3
70°-80°	725.8	7.4
80°-90°	222.2	2.3
90°-100°	66.1	0.7
100°-110°	53.5	0.5
110°-120°	49.2	0.5
120°-130°	44.3	0.5
130°-140°	38.3	0.4
140°-150°	26.5	0.3
150°-160°	12.7	0.1
160°-170°	3.1	0.0
170°-180°	0.4	0.0
0°-90°	9508.2	97.0
0°-180°	9802.3	100.0

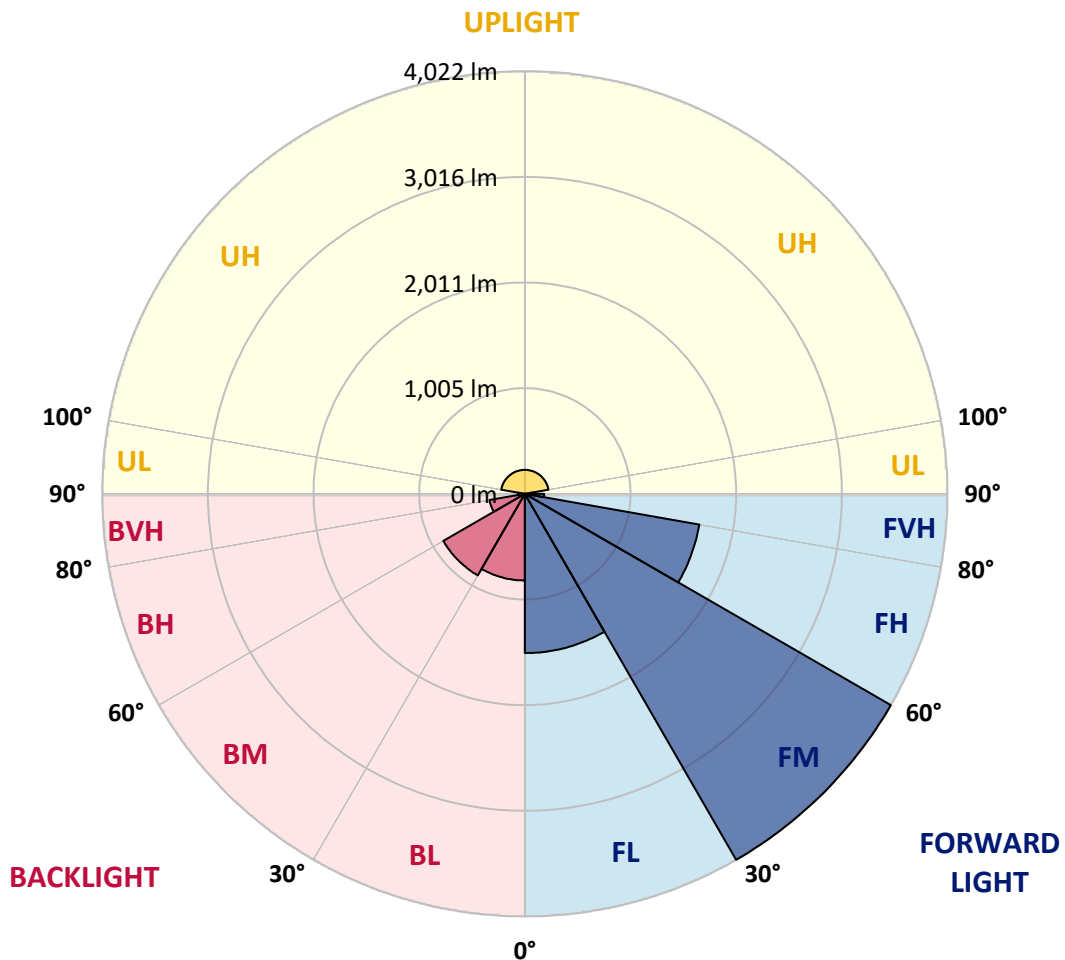


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.6	15.5			
FM (30°-60°)	4021.7	41.0			
FH (60°-80°)	1686.5	17.2			G1/1800
FVH (80°-90°)	183.4	1.9			G2/225
BL (0°-30°)	824.5	8.4	B2/1000		
BM (30°-60°)	896.0	9.1	B1/1000		
BH (60°-80°)	341.5	3.5	B1/500		G1/500
BVH (80°-90°)	38.8	0.4			G1/100
UL (90°-100°)	66.1	0.7		U3/500	
UH (100°-180°)	228.0	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°	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9
0.5°	3473.5	3472.1	3471.9	3472.8	3471.5	3464.3	3455.9	3446.0	3434.7	3423.6	3413.2
1°	3439.2	3442.6	3456.0	3470.0	3485.2	3489.3	3482.7	3468.9	3441.9	3420.2	3402.2
1.5°	3316.3	3326.2	3349.9	3390.0	3433.3	3468.1	3487.8	3480.7	3446.7	3413.1	3386.8
2°	3161.6	3172.3	3205.2	3260.8	3330.8	3401.8	3467.9	3485.7	3457.5	3406.1	3372.7
2.5°	3071.2	3077.4	3092.2	3133.1	3208.0	3311.0	3417.4	3475.2	3463.7	3403.6	3362.8
3°	3068.8	3063.4	3060.9	3067.9	3109.2	3209.8	3346.8	3452.3	3459.9	3394.7	3351.2
3.5°	3091.9	3085.8	3078.6	3062.0	3064.2	3120.7	3266.2	3414.1	3452.0	3384.2	3337.6
4°	3059.8	3069.4	3080.6	3077.0	3055.6	3068.5	3186.2	3367.0	3442.9	3379.3	3331.5
4.5°	2937.1	2963.7	3014.2	3069.4	3064.1	3046.9	3115.8	3315.1	3432.4	3366.1	3323.8
5°	2795.3	2816.2	2879.8	2989.6	3062.6	3041.7	3061.7	3253.8	3414.1	3353.6	3321.4
5.5°	2746.1	2745.4	2761.8	2862.7	3006.0	3049.9	3031.0	3195.1	3395.8	3340.5	3314.5
6°	2816.6	2789.9	2745.7	2758.0	2903.2	3041.0	3010.4	3135.9	3375.7	3327.3	3313.4
6.5°	2950.7	2913.8	2823.8	2739.5	2791.1	2996.3	3006.3	3081.1	3356.0	3315.0	3308.0
7°	3047.3	3030.7	2948.8	2801.9	2727.9	2918.2	3008.2	3035.2	3325.8	3302.0	3304.0
7.5°	3034.8	3043.8	3040.7	2911.5	2731.3	2816.2	3007.7	2999.5	3291.4	3283.6	3294.9
8°	2943.6	2959.5	3017.2	3009.7	2790.6	2733.5	2987.0	2970.7	3262.4	3267.2	3282.8
8.5°	2892.3	2884.3	2926.2	3024.1	2896.0	2687.6	2943.6	2950.8	3227.9	3246.5	3274.6
9°	2950.9	2902.9	2861.8	2957.8	2980.7	2686.2	2876.7	2935.0	3188.8	3233.8	3264.1
9.5°	3115.5	3052.4	2900.0	2873.6	3006.2	2739.1	2795.9	2927.6	3149.1	3224.6	3251.0
10°	3293.2	3232.0	3039.2	2845.4	2957.4	2825.0	2715.4	2923.4	3112.9	3211.8	3242.7
10.5°	3373.1	3346.6	3221.4	2914.9	2873.2	2901.4	2658.8	2920.3	3075.4	3203.2	3232.0
11°	3335.9	3340.3	3330.0	3070.1	2816.4	2946.7	2629.2	2912.8	3041.5	3198.7	3223.1
11.5°	3252.3	3262.5	3319.7	3225.5	2821.0	2938.5	2637.1	2898.4	3011.2	3190.8	3216.6
12°	3235.2	3209.8	3241.1	3308.8	2911.5	2888.5	2675.3	2872.6	2983.1	3183.8	3208.3
12.5°	3317.6	3260.2	3179.3	3291.1	3050.3	2818.8	2729.3	2829.2	2948.7	3177.7	3200.2
13°	3432.3	3373.1	3214.4	3209.3	3182.6	2769.8	2799.0	2785.7	2917.4	3166.8	3188.5
13.5°	3490.3	3450.1	3315.2	3140.9	3253.9	2765.3	2857.7	2730.0	2887.4	3151.7	3174.4
14°	3498.7	3464.9	3397.6	3159.9	3239.7	2817.9	2891.7	2677.5	2857.7	3134.2	3157.9
14.5°	3506.2	3451.6	3418.6	3248.5	3170.0	2929.3	2890.9	2627.2	2831.0	3118.0	3141.8
15°	3553.8	3471.1	3397.5	3325.9	3092.7	3051.9	2861.7	2584.1	2805.3	3106.0	3122.8
15.5°	3681.7	3567.6	3391.9	3356.0	3071.9	3155.4	2814.3	2553.5	2781.8	3089.4	3106.8
16°	3855.4	3722.6	3453.7	3334.1	3127.1	3205.1	2756.4	2536.9	2761.9	3074.3	3089.2
16.5°	4043.7	3911.0	3581.3	3305.0	3213.4	3196.2	2710.5	2538.2	2747.0	3058.4	3070.2
17°	4206.1	4083.4	3746.1	3323.1	3272.6	3141.6	2692.4	2554.4	2734.4	3042.9	3053.5
17.5°	4330.5	4205.7	3910.5	3402.1	3282.0	3070.9	2709.1	2577.9	2723.4	3028.6	3036.7
18°	4426.6	4312.3	4049.1	3535.1	3251.2	3016.3	2758.8	2612.9	2712.6	3011.8	3019.7
18.5°	4524.4	4404.2	4152.3	3685.1	3224.7	3013.6	2844.9	2654.6	2700.3	2996.5	3003.4
19°	4648.8	4503.9	4238.8	3819.4	3230.2	3060.2	2930.4	2688.5	2693.2	2979.6	2987.5
19.5°	4806.1	4638.5	4318.5	3931.6	3290.8	3125.9	3012.0	2719.7	2680.6	2962.0	2971.5
20°	4968.8	4802.9	4415.1	4019.7	3389.4	3166.3	3061.9	2733.1	2670.6	2945.2	2951.7
20.5°	5104.0	4965.4	4556.7	4108.5	3509.0	3169.5	3074.5	2733.3	2658.3	2927.1	2931.9
21°	5207.4	5086.6	4709.1	4190.5	3629.8	3142.0	3045.5	2720.2	2642.5	2912.3	2910.9
21.5°	5285.7	5191.1	4864.7	4278.5	3729.4	3106.3	2992.3	2695.9	2625.8	2896.4	2890.1
22°	5344.2	5273.0	4999.9	4396.5	3811.5	3081.5	2927.7	2659.3	2608.5	2881.2	2867.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	5373.0	5312.7	5099.1	4538.2	3885.8	3092.0	2870.1	2620.8	2591.8	2866.1	2845.8
23°	5383.7	5333.1	5163.2	4689.0	3954.3	3137.4	2835.7	2588.7	2573.0	2852.8	2823.1
23.5°	5377.7	5339.5	5193.7	4831.4	4024.0	3209.5	2839.7	2562.1	2553.7	2839.0	2799.0
24°	5359.3	5336.8	5223.3	4939.7	4093.8	3295.5	2869.3	2548.9	2532.4	2826.1	2777.0
24.5°	5341.4	5320.1	5243.3	5006.6	4178.8	3384.3	2912.7	2549.1	2509.0	2809.6	2755.0
25°	5314.1	5287.8	5244.1	5033.6	4291.1	3467.3	2946.8	2561.7	2488.6	2797.3	2733.3
25.5°	5285.3	5253.0	5219.5	5048.2	4420.8	3536.5	2961.9	2592.0	2464.5	2782.9	2713.3
26°	5252.4	5225.2	5172.7	5078.1	4547.5	3593.9	2951.5	2630.4	2445.7	2769.4	2695.0
26.5°	5230.2	5204.3	5129.9	5096.0	4655.8	3644.2	2925.9	2679.5	2428.1	2758.6	2675.7
27°	5213.3	5180.2	5106.8	5090.4	4724.7	3693.3	2896.0	2727.0	2414.9	2748.5	2657.0
27.5°	5175.3	5151.7	5084.9	5049.5	4741.3	3740.4	2876.3	2761.4	2403.3	2739.8	2640.3
28°	5129.8	5114.8	5068.8	4995.4	4737.0	3786.8	2873.4	2783.4	2392.8	2731.0	2623.3
28.5°	5077.4	5073.1	5043.3	4937.0	4737.5	3846.9	2889.1	2790.9	2385.9	2723.1	2609.2
29°	5028.0	5024.9	5009.8	4906.9	4766.4	3922.5	2923.4	2784.4	2379.7	2714.1	2595.9
29.5°	4977.0	4979.3	4971.7	4888.8	4793.9	4013.3	2970.7	2765.8	2376.2	2706.8	2584.3
30°	4937.2	4936.9	4923.0	4868.7	4787.2	4102.6	3020.8	2741.4	2377.4	2699.6	2571.9
30.5°	4895.2	4907.3	4883.2	4843.6	4743.0	4182.9	3072.0	2711.6	2379.6	2693.9	2560.6
31°	4849.8	4861.8	4854.2	4805.7	4670.1	4240.7	3123.3	2683.2	2384.4	2688.8	2549.4
31.5°	4800.1	4806.9	4831.5	4767.7	4610.0	4264.8	3164.9	2662.4	2388.8	2683.0	2539.3
32°	4746.5	4756.0	4790.5	4722.3	4575.2	4268.2	3196.7	2651.8	2394.9	2678.0	2529.6
32.5°	4704.5	4721.2	4726.5	4677.8	4560.9	4265.1	3225.8	2652.1	2401.1	2673.1	2521.5
33°	4656.6	4695.8	4670.1	4648.5	4541.9	4267.8	3249.7	2662.3	2410.2	2668.5	2512.4
33.5°	4589.1	4647.4	4633.9	4625.9	4512.4	4281.0	3276.6	2678.6	2418.0	2664.7	2501.6
34°	4508.3	4565.6	4618.6	4593.4	4479.2	4296.8	3309.7	2696.8	2425.3	2661.8	2489.1
34.5°	4442.8	4485.9	4587.7	4537.7	4448.7	4298.0	3341.4	2709.8	2429.6	2659.6	2477.9
35°	4398.9	4421.8	4523.4	4471.8	4413.3	4276.4	3375.1	2713.6	2432.6	2656.0	2468.3
35.5°	4372.4	4377.4	4434.7	4413.5	4376.4	4235.5	3416.3	2713.1	2433.9	2653.0	2459.3
36°	4358.8	4352.2	4362.9	4390.2	4333.8	4191.2	3458.1	2703.4	2430.4	2649.1	2448.8
36.5°	4362.1	4352.2	4315.4	4376.7	4298.8	4158.0	3501.6	2690.4	2426.2	2646.5	2439.4
37°	4378.4	4363.4	4285.0	4329.3	4277.7	4132.6	3540.2	2679.3	2420.6	2641.2	2430.0
37.5°	4397.6	4383.2	4269.1	4255.2	4251.7	4111.8	3571.8	2670.4	2413.2	2636.0	2421.0
38°	4426.7	4411.8	4264.0	4174.6	4219.5	4089.9	3595.8	2663.7	2404.9	2627.8	2409.1
38.5°	4456.2	4444.1	4269.1	4121.0	4169.4	4063.6	3610.6	2662.5	2395.0	2618.9	2398.4
39°	4491.1	4481.7	4278.6	4084.8	4122.5	4031.0	3614.5	2665.1	2385.7	2607.8	2386.0
39.5°	4525.3	4518.3	4300.8	4056.0	4092.2	4002.5	3614.9	2670.3	2374.3	2598.6	2372.9
40°	4559.3	4549.8	4328.3	4032.4	4079.3	3977.7	3614.9	2679.6	2364.9	2589.5	2361.0
40.5°	4591.8	4578.7	4354.6	4014.0	4060.2	3954.7	3615.1	2686.9	2357.8	2582.9	2350.9
41°	4619.6	4608.0	4379.0	4005.8	4022.1	3930.2	3613.1	2693.4	2351.3	2577.3	2341.9
41.5°	4646.9	4631.5	4402.0	4000.9	3972.6	3906.0	3608.2	2700.5	2348.3	2571.9	2333.3
42°	4662.3	4659.2	4425.4	4004.0	3927.1	3884.3	3594.0	2708.1	2345.3	2568.4	2326.4
42.5°	4688.6	4677.4	4446.7	4011.7	3893.3	3863.7	3577.8	2713.5	2344.5	2562.8	2318.8
43°	4717.3	4703.2	4475.4	4020.9	3867.5	3842.2	3554.9	2720.2	2344.6	2559.4	2312.1
43.5°	4739.1	4723.2	4498.5	4029.3	3845.5	3818.4	3529.1	2724.6	2346.6	2557.5	2308.2
44°	4754.6	4738.8	4519.3	4033.5	3825.2	3788.7	3505.9	2725.6	2349.7	2554.9	2303.7
44.5°	4751.0	4752.6	4531.7	4043.4	3810.9	3760.2	3485.3	2727.2	2354.8	2551.7	2302.1



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CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	4744.3	4745.3	4541.8	4049.2	3799.4	3738.0	3470.3	2726.4	2360.6	2548.4	2300.4
45.5°	4715.9	4742.2	4543.3	4051.6	3787.3	3715.8	3454.6	2728.1	2362.4	2545.7	2294.3
46°	4686.6	4716.9	4537.3	4052.7	3779.1	3697.7	3440.5	2732.2	2362.9	2539.6	2289.5
46.5°	4635.1	4684.3	4529.8	4049.3	3772.7	3678.0	3427.9	2736.6	2361.5	2533.0	2282.6
47°	4591.2	4634.7	4506.4	4044.9	3767.2	3651.7	3415.9	2740.2	2354.6	2526.5	2275.1
47.5°	4541.9	4587.9	4480.2	4032.7	3762.0	3619.4	3402.6	2745.0	2346.5	2518.3	2268.4
48°	4509.0	4557.7	4437.4	4013.7	3751.9	3589.4	3387.2	2746.6	2335.7	2509.3	2261.8
48.5°	4468.7	4528.5	4400.9	3995.5	3736.8	3560.2	3369.9	2745.2	2323.6	2501.1	2252.4
49°	4415.7	4489.2	4355.6	3976.6	3720.5	3531.2	3350.2	2747.0	2311.8	2492.3	2241.3
49.5°	4354.5	4440.2	4324.2	3953.3	3705.4	3501.7	3331.0	2745.0	2295.4	2481.8	2232.4
50°	4293.8	4372.9	4290.6	3926.8	3684.8	3475.8	3313.1	2745.5	2279.0	2470.1	2221.3
50.5°	4245.9	4313.2	4250.2	3895.3	3665.4	3448.8	3297.1	2745.3	2261.1	2459.0	2210.6
51°	4205.3	4251.8	4195.2	3863.8	3642.0	3418.0	3277.1	2739.6	2241.3	2445.6	2198.8
51.5°	4170.2	4204.6	4145.5	3827.4	3614.3	3386.4	3255.7	2733.7	2219.5	2431.1	2186.2
52°	4134.1	4173.7	4093.8	3793.3	3582.8	3355.5	3232.8	2726.3	2198.4	2414.9	2170.2
52.5°	4101.7	4145.3	4041.0	3758.5	3549.4	3323.3	3209.9	2715.8	2175.7	2401.8	2152.7
53°	4057.2	4111.2	4002.0	3728.7	3515.5	3286.9	3184.7	2702.8	2151.3	2383.4	2135.1
53.5°	4012.4	4060.3	3972.9	3699.7	3479.2	3249.7	3156.2	2689.9	2127.9	2362.1	2117.4
54°	3972.0	4013.1	3952.2	3659.6	3446.4	3214.6	3127.2	2673.7	2103.1	2340.8	2101.7
54.5°	3926.6	3962.7	3917.4	3624.8	3415.0	3177.8	3092.9	2656.2	2078.2	2311.5	2082.8
55°	3868.6	3907.0	3862.7	3593.5	3380.6	3143.5	3056.1	2634.3	2049.2	2281.8	2058.7
55.5°	3798.0	3839.2	3804.6	3563.0	3347.2	3107.0	3019.1	2603.1	2020.9	2253.4	2034.9
56°	3724.7	3768.7	3753.4	3533.5	3308.0	3071.3	2981.9	2567.8	1994.0	2223.6	2011.5
56.5°	3642.7	3689.5	3696.3	3500.7	3273.6	3035.4	2943.4	2530.1	1965.6	2191.9	1988.8
57°	3577.0	3612.0	3627.0	3458.1	3242.3	3003.0	2899.3	2489.9	1935.8	2159.7	1968.9
57.5°	3516.6	3550.8	3557.9	3408.4	3214.1	2969.2	2854.1	2453.5	1906.7	2125.4	1947.8
58°	3451.3	3499.3	3487.0	3352.8	3184.5	2937.9	2806.9	2417.9	1877.5	2092.0	1926.4
58.5°	3388.3	3444.8	3420.4	3293.9	3151.3	2905.6	2759.0	2380.7	1846.1	2057.7	1907.8
59°	3316.7	3384.4	3357.3	3235.8	3105.2	2870.6	2713.1	2338.1	1816.0	2025.5	1889.7
59.5°	3235.4	3312.6	3297.7	3177.1	3052.5	2834.2	2668.9	2296.3	1787.4	1990.0	1864.2
60°	3140.8	3229.9	3237.7	3124.7	2998.8	2795.4	2622.2	2254.9	1756.7	1952.8	1840.1
60.5°	3049.4	3136.2	3168.1	3071.2	2943.7	2750.4	2575.1	2212.5	1725.8	1916.9	1811.4
61°	2958.9	3045.2	3087.8	3019.3	2891.9	2705.2	2526.5	2168.7	1693.6	1880.5	1782.5
61.5°	2874.4	2955.8	3005.7	2962.3	2838.2	2660.7	2481.0	2126.2	1663.1	1847.4	1759.6
62°	2802.0	2878.7	2923.1	2903.7	2780.0	2613.2	2433.9	2082.3	1633.6	1814.3	1736.9
62.5°	2737.9	2809.3	2841.9	2833.2	2725.1	2556.1	2389.4	2037.4	1604.1	1779.0	1705.6
63°	2691.9	2747.4	2767.5	2764.3	2674.3	2501.7	2345.6	1994.1	1576.5	1743.2	1677.1
63.5°	2648.7	2694.5	2700.3	2696.3	2619.5	2447.0	2302.7	1953.6	1545.4	1708.2	1646.1
64°	2601.3	2649.9	2637.3	2628.1	2561.0	2390.0	2256.6	1912.7	1513.4	1671.3	1615.1
64.5°	2549.9	2604.7	2581.8	2562.8	2501.4	2328.2	2212.4	1874.6	1481.5	1635.9	1582.0
65°	2499.0	2552.5	2536.9	2507.8	2443.6	2268.7	2168.8	1835.6	1447.3	1599.2	1547.8
65.5°	2429.6	2483.4	2484.2	2453.4	2387.6	2208.0	2123.9	1793.7	1414.9	1562.8	1516.3
66°	2351.2	2413.1	2428.0	2401.0	2331.9	2148.3	2075.3	1749.6	1381.3	1529.3	1483.3
66.5°	2275.9	2333.1	2359.3	2351.0	2277.6	2089.3	2019.1	1707.5	1350.1	1495.2	1448.5
67°	2205.7	2253.3	2294.4	2296.3	2224.5	2035.1	1960.0	1665.9	1317.2	1461.2	1411.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2140.7	2184.0	2225.3	2234.0	2169.0	1983.9	1898.9	1623.6	1284.2	1424.8	1381.3
68°	2082.4	2123.1	2153.6	2170.4	2113.0	1930.3	1841.2	1582.6	1252.0	1389.4	1346.0
68.5°	2025.5	2059.2	2081.3	2106.3	2058.0	1880.8	1779.0	1539.2	1220.2	1355.4	1311.9
69°	1972.8	1997.7	2015.5	2041.3	2000.5	1833.4	1718.9	1499.4	1186.3	1320.8	1275.3
69.5°	1914.2	1943.2	1952.1	1974.1	1939.8	1785.8	1658.2	1458.8	1149.8	1282.1	1237.2
70°	1849.0	1879.2	1889.8	1911.9	1878.2	1731.4	1600.0	1417.5	1114.8	1244.9	1204.8
70.5°	1785.0	1816.3	1831.1	1852.2	1818.1	1676.4	1547.3	1376.2	1078.5	1208.0	1165.0
71°	1722.8	1753.6	1770.6	1794.4	1754.6	1622.3	1492.7	1335.6	1044.3	1168.9	1127.8
71.5°	1660.8	1688.9	1706.0	1731.3	1690.2	1564.5	1440.5	1298.8	1012.2	1133.1	1088.5
72°	1605.0	1632.5	1641.4	1668.4	1629.7	1507.2	1389.8	1259.8	979.9	1096.9	1048.8
72.5°	1549.4	1575.5	1585.6	1606.7	1571.0	1448.9	1337.7	1220.9	947.6	1061.0	1012.5
73°	1488.5	1520.5	1531.1	1547.4	1510.1	1392.5	1287.9	1185.2	916.6	1024.9	975.8
73.5°	1427.0	1460.3	1472.4	1486.2	1452.2	1337.5	1241.2	1146.8	884.2	989.4	938.3
74°	1366.8	1399.8	1410.7	1426.4	1395.2	1282.4	1198.6	1104.4	850.5	954.2	901.7
74.5°	1297.2	1329.8	1349.5	1366.1	1337.7	1229.6	1156.0	1055.0	818.5	915.9	867.3
75°	1229.5	1257.1	1283.3	1305.8	1283.0	1178.7	1114.1	1007.8	786.8	880.8	833.1
75.5°	1163.0	1190.3	1219.7	1245.6	1228.4	1129.3	1069.9	959.3	750.2	841.9	797.5
76°	1096.4	1124.2	1155.0	1181.7	1172.3	1077.1	1024.2	907.1	713.3	803.3	762.7
76.5°	1033.0	1059.9	1091.3	1119.8	1116.9	1026.3	976.4	854.9	675.9	765.8	730.3
77°	973.1	999.9	1032.8	1060.3	1061.8	977.6	929.2	808.3	643.0	729.7	696.5
77.5°	913.5	941.3	974.0	1001.3	1003.9	930.1	881.0	762.3	610.5	691.4	663.2
78°	857.0	882.2	918.0	943.5	950.3	880.6	831.7	719.9	576.6	654.3	628.2
78.5°	804.3	828.6	861.9	888.3	896.2	831.8	784.8	677.9	545.8	616.3	595.4
79°	753.5	776.9	804.6	834.2	841.2	785.5	744.4	640.3	515.6	579.7	563.2
79.5°	701.7	724.8	751.8	779.9	786.7	739.1	704.9	602.9	485.5	544.3	541.3
80°	658.2	678.1	701.2	728.3	735.6	693.0	664.4	568.5	455.3	510.9	509.2
80.5°	615.5	635.5	651.1	677.6	686.7	651.6	627.3	535.7	425.1	477.5	476.4
81°	575.4	591.8	606.2	628.6	639.8	610.9	589.3	503.4	394.9	444.1	443.7
81.5°	540.2	553.5	563.7	583.4	593.2	568.6	550.2	471.1	368.3	410.7	410.9
82°	506.0	518.3	526.2	541.9	548.4	525.3	513.7	438.7	342.1	377.3	378.9
82.5°	471.8	483.2	491.3	506.6	512.4	489.3	477.3	406.4	315.6	347.6	348.7
83°	437.6	448.2	456.5	471.7	476.6	453.3	440.9	375.5	288.6	318.0	320.7
83.5°	403.4	413.1	421.7	436.9	440.8	417.4	404.5	347.9	263.4	289.4	295.7
84°	369.2	378.1	386.9	402.0	405.0	381.4	368.1	320.9	239.6	260.9	270.1
84.5°	340.6	349.6	356.7	367.1	369.2	351.6	337.5	293.4	216.9	233.3	244.2
85°	313.3	322.7	328.7	338.2	340.8	324.6	308.7	268.5	195.1	206.8	219.3
85.5°	289.9	298.8	303.4	312.1	315.6	299.9	281.3	244.3	175.4	182.7	196.5
86°	268.4	276.4	280.4	288.4	292.2	277.5	257.6	221.8	157.9	159.6	175.1
86.5°	249.0	256.2	259.3	266.5	270.5	257.1	236.0	200.2	140.4	137.5	154.1
87°	231.6	238.7	240.9	246.2	250.2	238.3	217.5	180.5	124.1	117.8	135.2
87.5°	216.7	222.5	224.7	228.6	232.2	221.6	200.8	165.1	110.4	100.3	117.7
88°	202.8	207.1	209.6	212.0	215.4	206.1	185.0	150.4	99.1	84.8	101.7
88.5°	191.2	194.8	196.0	197.9	200.5	192.2	172.0	138.8	89.9	71.7	89.4
89°	180.7	183.5	184.1	185.3	186.7	179.7	160.4	128.5	82.3	61.6	79.7
89.5°	171.2	173.4	173.2	173.5	174.4	168.7	150.1	120.2	76.0	53.4	72.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	163.2	164.5	163.6	163.2	163.5	158.8	141.1	112.6	70.8	48.9	65.7
90.5°	156.0	157.2	155.7	154.8	154.4	150.4	133.1	106.7	66.9	44.5	60.2
91°	149.7	150.6	148.5	146.8	146.2	142.3	126.0	101.8	63.7	40.1	56.0
91.5°	144.5	145.4	142.5	139.9	138.4	134.5	120.2	97.5	61.0	35.7	53.9
92°	139.8	140.2	136.7	133.3	130.6	128.1	115.2	94.1	58.7	33.4	52.0
92.5°	134.4	135.0	130.7	126.7	124.6	122.7	111.1	91.2	57.0	32.0	50.1
93°	129.4	129.8	125.2	121.3	119.8	117.8	107.3	88.6	55.7	31.0	48.2
93.5°	125.9	126.2	121.5	117.6	115.5	113.5	104.1	86.5	54.9	30.4	46.2
94°	123.4	123.6	118.4	114.2	111.7	109.9	101.3	84.5	54.2	30.1	45.7
94.5°	121.3	121.5	116.0	111.3	108.3	106.6	98.7	82.6	53.5	29.9	45.2
95°	119.8	119.9	114.2	108.8	105.4	103.7	96.3	80.9	52.7	29.8	44.4
95.5°	118.2	118.3	112.4	106.9	103.1	101.3	94.3	79.5	52.0	29.8	44.0
96°	116.4	116.6	110.9	105.2	101.0	99.0	92.4	78.1	51.6	29.6	43.8
96.5°	115.3	115.5	109.6	103.7	99.1	97.0	90.5	76.7	51.2	29.8	43.6
97°	114.5	114.7	108.7	102.4	97.5	95.2	88.8	75.5	51.1	30.0	43.4
97.5°	113.9	113.9	108.0	101.4	96.1	93.4	87.2	74.5	51.2	30.4	43.1
98°	113.1	113.2	107.2	100.4	94.8	91.7	85.5	73.6	51.3	30.8	42.8
98.5°	112.3	112.5	106.6	99.5	93.7	90.3	84.3	72.9	51.4	31.1	42.5
99°	111.7	111.8	106.0	98.6	92.6	89.0	83.0	72.4	51.6	31.5	42.1
99.5°	111.0	111.1	105.3	97.9	91.8	87.8	82.0	72.0	51.7	31.9	41.7
100°	110.1	110.4	104.6	97.3	90.9	86.7	81.2	71.6	52.0	32.3	41.3
100.5°	109.2	109.6	104.1	96.5	90.0	85.8	80.4	71.3	52.2	32.7	41.0
101°	108.4	108.8	103.1	95.5	89.4	85.1	79.7	71.2	52.4	33.2	40.8
101.5°	106.4	107.1	101.8	94.8	89.0	84.6	79.3	71.0	52.7	33.7	40.6
102°	104.8	105.7	101.0	94.6	88.9	84.2	78.9	71.0	53.0	34.2	40.4
102.5°	104.0	105.1	101.0	94.7	88.7	83.8	78.4	70.9	53.4	34.7	40.3
103°	104.3	105.5	101.3	94.7	88.6	83.4	77.9	70.9	53.9	35.2	40.3
103.5°	104.2	105.6	101.2	94.6	88.4	83.1	77.5	70.8	54.3	35.8	40.4
104°	103.8	105.2	100.9	94.3	88.1	82.8	77.2	70.8	54.8	36.3	40.5
104.5°	103.1	104.6	100.6	94.1	87.9	82.5	76.8	70.7	55.3	36.9	40.6
105°	102.5	104.1	100.2	93.9	87.8	82.2	76.5	70.7	55.7	37.4	40.8
105.5°	101.9	103.6	99.9	93.7	87.7	82.0	76.2	70.7	56.2	37.9	41.0
106°	101.3	103.1	99.5	93.5	87.5	81.7	76.0	70.6	56.6	38.4	41.2
106.5°	100.8	102.6	99.1	93.4	87.4	81.4	75.7	70.5	57.0	39.0	41.5
107°	100.4	102.1	98.8	93.2	87.2	81.2	75.4	70.5	57.3	39.5	41.8
107.5°	100.0	101.7	98.4	92.8	87.0	80.9	75.0	70.4	57.7	39.9	42.0
108°	99.5	101.0	97.9	92.5	86.8	80.6	74.8	70.4	58.1	40.4	42.3
108.5°	98.9	100.4	97.4	92.1	86.5	80.3	74.6	70.5	58.6	40.8	42.6
109°	98.2	99.7	96.9	91.7	86.3	80.1	74.4	70.6	59.0	41.3	42.8
109.5°	97.4	98.9	96.2	91.3	86.0	79.9	74.3	70.8	59.5	41.7	43.1
110°	96.5	98.0	95.7	90.9	85.8	79.6	74.3	71.0	59.9	42.2	43.4
110.5°	95.6	97.2	95.1	90.5	85.6	79.5	74.1	71.2	60.3	42.6	43.6
111°	94.8	96.5	94.5	90.0	85.3	79.3	74.0	71.4	60.7	43.1	43.9
111.5°	94.0	95.7	93.9	89.6	85.0	79.1	73.9	71.6	61.1	43.5	44.1
112°	93.2	94.9	93.4	89.3	84.7	79.0	73.9	71.8	61.5	43.9	44.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	92.3	94.1	92.8	88.8	84.3	78.9	73.9	71.9	61.9	44.3	44.5
113°	91.6	93.5	92.2	88.3	84.0	78.8	73.9	72.2	62.3	44.6	44.7
113.5°	91.0	92.9	91.7	87.8	83.8	78.7	73.9	72.3	62.6	44.9	44.9
114°	90.4	92.4	91.1	87.4	83.6	78.6	73.9	72.5	62.9	45.2	45.1
114.5°	89.9	91.9	90.5	87.0	83.5	78.6	73.9	72.7	63.2	45.6	45.3
115°	89.3	91.2	89.9	86.7	83.3	78.4	73.9	72.8	63.5	45.8	45.5
115.5°	88.7	90.6	89.4	86.5	83.1	78.3	73.9	73.0	63.7	46.1	45.6
116°	88.1	90.0	88.9	86.3	83.0	78.2	73.9	73.1	63.9	46.3	45.7
116.5°	87.6	89.5	88.6	86.2	82.9	78.2	73.9	73.2	64.2	46.5	45.8
117°	87.3	89.1	88.4	85.9	82.8	78.1	73.9	73.2	64.4	46.6	45.9
117.5°	87.0	88.7	88.1	85.8	82.7	78.0	73.9	73.3	64.5	46.7	45.9
118°	86.8	88.4	88.0	85.8	82.6	78.0	73.9	73.3	64.5	46.7	46.0
118.5°	86.7	88.2	87.9	85.7	82.4	77.9	73.8	73.3	64.5	46.6	46.0
119°	86.6	88.1	87.7	85.6	82.3	77.9	73.9	73.3	64.4	46.5	46.1
119.5°	86.6	87.9	87.7	85.5	82.1	77.8	73.9	73.3	64.3	46.4	46.2
120°	86.7	88.0	87.8	85.5	82.1	77.8	73.9	73.2	64.3	46.2	46.3
120.5°	86.8	88.0	87.9	85.4	82.0	77.8	74.0	73.2	64.1	46.1	46.4
121°	87.0	88.0	87.9	85.3	81.9	77.9	74.0	73.3	64.0	46.0	46.4
121.5°	87.1	88.1	87.9	85.3	81.8	77.9	74.2	73.3	63.8	45.8	46.4
122°	87.2	88.2	87.9	85.2	81.8	78.0	74.3	73.4	63.6	45.5	46.4
122.5°	87.3	88.3	87.9	85.3	81.8	78.1	74.3	73.4	63.4	45.3	46.3
123°	87.5	88.4	88.0	85.3	81.9	78.2	74.4	73.4	63.1	45.0	46.3
123.5°	87.6	88.6	88.2	85.2	81.8	78.3	74.6	73.4	62.8	44.7	46.2
124°	87.8	88.7	88.3	85.1	81.9	78.5	74.8	73.4	62.5	44.4	46.1
124.5°	88.0	88.9	88.4	85.1	81.9	78.6	74.9	73.5	62.2	44.2	46.1
125°	88.2	89.1	88.6	85.0	82.0	78.8	75.1	73.6	61.9	43.9	46.0
125.5°	88.4	89.3	88.6	85.0	82.0	79.0	75.4	73.7	61.5	43.7	45.8
126°	88.7	89.5	88.7	84.9	82.2	79.2	75.7	73.9	61.3	43.4	45.8
126.5°	88.9	89.6	88.8	84.8	82.3	79.5	76.0	74.0	61.1	43.2	45.7
127°	88.9	89.7	88.9	84.8	82.4	79.7	76.3	74.2	60.9	43.0	45.7
127.5°	88.9	89.9	88.9	84.7	82.5	79.9	76.6	74.4	60.7	42.9	45.7
128°	89.0	90.0	89.0	84.6	82.7	80.2	77.0	74.6	60.6	42.8	45.7
128.5°	89.0	90.0	89.1	84.6	82.8	80.4	77.3	74.9	60.4	42.8	45.8
129°	89.0	90.1	89.1	84.5	82.9	80.6	77.8	75.1	60.3	42.8	45.9
129.5°	88.9	90.1	89.1	84.5	83.0	80.9	78.2	75.3	60.3	42.8	46.0
130°	88.9	90.1	89.2	84.4	83.1	81.0	78.6	75.6	60.3	42.9	46.1
130.5°	88.8	90.0	89.2	84.3	83.2	81.2	79.0	75.9	60.2	43.0	46.3
131°	88.7	90.0	89.2	84.2	83.3	81.4	79.5	76.2	60.3	43.2	46.4
131.5°	88.6	89.9	89.2	84.1	83.3	81.5	79.9	76.5	60.3	43.3	46.6
132°	88.5	89.9	89.1	83.9	83.3	81.7	80.3	76.8	60.3	43.5	46.7
132.5°	88.3	89.8	89.0	83.7	83.2	81.7	80.7	77.0	60.4	43.6	46.8
133°	87.9	89.5	88.9	83.5	83.1	81.8	81.1	77.2	60.4	43.8	46.9
133.5°	87.6	89.2	88.6	83.3	82.9	81.9	81.3	77.4	60.4	44.0	47.0
134°	87.1	88.9	88.4	83.0	82.6	81.9	81.6	77.6	60.4	44.1	47.1
134.5°	86.6	88.6	88.1	82.8	82.3	81.9	81.8	77.7	60.4	44.3	47.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	86.0	88.2	87.8	82.5	81.9	81.9	81.9	77.9	60.4	44.4	47.3
135.5°	85.3	87.8	87.5	82.3	81.5	81.8	82.0	78.0	60.4	44.5	47.3
136°	84.7	87.4	87.1	81.9	81.1	81.7	82.1	78.0	60.3	44.6	47.4
136.5°	84.0	86.8	86.6	81.7	80.6	81.6	82.0	77.9	60.2	44.7	47.4
137°	83.2	86.3	86.1	81.3	80.1	81.4	81.9	77.9	60.1	44.8	47.4
137.5°	82.4	85.5	85.6	80.9	79.5	81.2	81.8	77.8	59.9	44.9	47.3
138°	81.5	84.8	85.1	80.5	78.9	80.8	81.6	77.6	59.7	45.0	47.3
138.5°	80.6	84.1	84.5	79.4	78.3	80.4	81.3	77.3	59.5	45.0	47.2
139°	79.7	83.4	83.9	78.9	77.6	80.0	80.9	77.0	59.2	45.0	47.0
139.5°	79.1	82.7	83.1	78.6	77.0	79.5	80.5	76.7	58.9	45.0	46.8
140°	78.3	81.9	82.3	78.1	76.4	78.9	80.0	76.2	58.6	44.9	46.6
140.5°	77.6	81.0	81.2	77.7	75.9	78.3	79.4	75.6	58.2	44.8	46.3
141°	76.6	80.0	79.9	77.3	75.3	77.6	78.7	75.1	57.7	44.6	45.9
141.5°	75.5	79.0	79.2	76.8	74.7	76.7	78.0	74.4	57.2	44.5	45.5
142°	74.4	77.5	78.4	76.3	74.0	75.9	77.2	73.6	56.6	44.2	45.1
142.5°	72.1	76.4	77.7	75.8	73.3	75.0	76.3	72.7	56.0	43.9	44.7
143°	71.4	75.7	76.9	75.2	72.7	74.1	75.4	71.8	55.2	43.6	44.1
143.5°	70.9	74.9	76.2	74.6	72.1	73.1	74.4	70.8	54.5	43.2	43.6
144°	70.3	74.1	75.5	73.9	71.4	72.1	73.3	69.7	53.7	42.7	43.0
144.5°	69.8	73.3	74.7	73.2	70.8	71.1	72.2	68.6	52.8	42.3	42.4
145°	69.2	72.4	73.9	72.5	70.1	70.0	71.1	67.4	52.0	41.8	41.7
145.5°	68.6	71.6	73.0	71.7	69.4	68.9	69.9	66.1	51.0	41.2	41.0
146°	67.9	70.7	72.2	70.8	68.5	67.8	68.6	64.8	50.0	40.6	40.2
146.5°	67.3	69.8	71.3	69.9	67.7	66.8	67.3	63.4	49.0	39.9	39.4
147°	66.5	68.8	70.5	68.9	66.7	65.6	66.0	62.0	47.9	39.2	38.6
147.5°	65.8	67.9	69.5	68.0	65.9	64.5	64.7	60.5	46.7	38.5	37.8
148°	65.1	66.9	68.5	66.9	64.8	63.4	63.3	59.0	45.6	37.7	36.9
148.5°	64.4	65.9	67.5	65.9	63.7	62.3	61.9	57.3	44.4	36.9	36.0
149°	63.5	64.9	66.5	64.8	62.7	61.1	60.4	55.7	43.2	36.1	35.1
149.5°	62.7	63.8	65.4	63.6	61.6	60.0	58.9	54.1	41.9	35.2	34.2
150°	61.9	62.7	64.3	62.5	60.5	58.7	57.3	52.5	40.6	34.3	33.2
150.5°	61.1	61.6	63.2	61.3	59.3	57.4	55.7	51.0	39.4	33.4	32.2
151°	60.2	60.5	62.0	60.1	58.1	56.2	54.2	49.4	38.1	32.5	31.3
151.5°	59.1	59.4	60.6	58.8	56.9	55.5	52.6	47.8	36.8	31.5	30.3
152°	58.2	58.1	59.3	57.6	55.6	54.2	51.1	46.0	35.4	30.6	29.3
152.5°	57.1	56.9	58.0	56.4	54.4	52.8	49.5	44.3	34.2	29.6	28.3
153°	56.0	55.6	56.6	54.8	53.2	51.5	48.0	42.5	32.9	28.6	27.3
153.5°	55.6	54.5	55.5	53.7	51.9	50.1	46.2	40.8	31.6	27.6	26.4
154°	54.5	53.5	54.2	52.6	50.7	48.7	44.4	39.1	30.3	26.6	25.4
154.5°	53.4	52.4	53.0	51.6	49.5	47.3	42.7	37.4	29.0	25.6	24.4
155°	52.3	51.3	51.7	50.5	48.1	45.8	40.9	35.7	27.8	24.7	23.4
155.5°	51.3	50.2	50.5	49.2	46.6	44.1	39.1	34.0	26.6	23.7	22.5
156°	50.1	49.0	49.2	47.7	45.3	42.2	37.3	32.4	25.4	22.8	21.6
156.5°	49.0	47.8	47.8	46.3	43.9	40.3	35.5	30.8	24.2	21.8	20.6
157°	47.9	46.6	46.4	44.8	42.5	38.5	33.8	29.2	23.0	20.9	19.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	46.7	45.3	44.9	43.4	41.1	36.7	32.0	27.7	21.9	19.9	18.9
158°	45.5	44.0	43.5	42.0	39.7	34.8	30.3	26.2	20.8	19.0	18.0
158.5°	44.2	42.7	42.0	40.6	38.2	32.9	28.5	24.7	19.7	18.1	17.1
159°	42.8	41.3	40.7	39.1	36.3	31.0	26.7	23.3	18.7	17.3	16.3
159.5°	41.5	40.0	39.2	37.7	34.1	29.1	25.0	21.9	17.7	16.4	15.5
160°	40.2	38.7	37.9	36.3	32.1	27.3	23.5	20.6	16.6	15.5	14.7
160.5°	38.9	37.5	36.5	34.8	30.0	25.5	22.1	19.3	15.7	14.7	13.9
161°	37.6	36.2	35.2	33.1	28.0	23.7	20.6	18.0	14.7	13.9	13.1
161.5°	36.4	34.9	33.8	30.8	25.9	22.0	19.2	16.8	13.8	13.1	12.4
162°	35.0	33.7	32.4	28.5	23.9	20.2	17.9	15.6	12.9	12.3	11.6
162.5°	33.6	32.3	30.4	26.3	21.9	18.4	16.6	14.4	12.0	11.5	10.9
163°	32.2	30.8	28.0	24.2	20.0	16.6	15.3	13.3	11.2	10.8	10.2
163.5°	29.8	28.3	25.6	22.1	18.2	14.8	14.1	12.3	10.4	10.1	9.5
164°	27.2	25.8	23.3	20.2	16.5	13.5	12.9	11.3	9.6	9.4	8.9
164.5°	24.6	23.5	21.1	18.3	14.7	12.4	11.8	10.4	8.9	8.8	8.3
165°	22.2	21.1	19.0	16.5	13.0	11.3	10.8	9.5	8.2	8.2	7.8
165.5°	19.8	18.9	17.1	14.8	11.2	10.3	9.8	8.7	7.5	7.6	7.2
166°	17.7	17.0	15.3	13.1	9.5	9.4	8.9	7.9	6.9	7.0	6.7
166.5°	15.7	15.1	13.5	11.4	8.7	8.5	8.1	7.2	6.4	6.5	6.2
167°	13.8	13.3	11.7	9.6	8.2	7.7	7.3	6.5	5.8	6.0	5.8
167.5°	11.9	11.5	9.9	7.7	7.6	7.0	6.5	5.9	5.4	5.5	5.3
168°	9.9	9.6	8.0	7.1	7.1	6.5	5.8	5.3	4.9	5.0	4.9
168.5°	7.8	7.5	6.4	6.6	6.6	6.0	5.4	4.8	4.4	4.6	4.5
169°	6.0	6.0	5.9	6.1	6.1	5.7	5.1	4.3	3.9	4.1	4.1
169.5°	5.7	5.7	5.6	5.7	5.7	5.3	4.7	3.8	3.5	3.7	3.8
170°	5.4	5.4	5.3	5.4	5.4	5.0	4.3	3.6	3.4	3.5	3.7
170.5°	5.1	5.1	5.0	5.1	5.1	4.6	4.1	3.5	3.4	3.5	3.7
171°	4.8	4.8	4.7	4.8	4.8	4.4	4.0	3.5	3.4	3.5	3.7
171.5°	4.6	4.6	4.5	4.5	4.4	4.2	3.8	3.4	3.4	3.6	3.8
172°	4.4	4.4	4.4	4.3	4.2	4.0	3.7	3.4	3.5	3.7	3.9
172.5°	4.2	4.3	4.2	4.1	4.0	3.9	3.7	3.4	3.6	3.7	3.9
173°	4.1	4.1	4.1	4.0	3.9	3.8	3.6	3.5	3.7	3.8	4.0
173.5°	4.0	4.0	4.0	3.8	3.8	3.7	3.6	3.5	3.7	3.9	4.1
174°	3.8	3.9	3.8	3.7	3.7	3.6	3.6	3.6	3.8	3.9	4.1
174.5°	3.7	3.7	3.6	3.6	3.5	3.5	3.5	3.6	3.8	3.9	4.1
175°	3.6	3.6	3.5	3.5	3.4	3.5	3.5	3.6	3.8	4.0	4.1
175.5°	3.5	3.5	3.4	3.4	3.4	3.4	3.5	3.6	3.8	4.0	4.2
176°	3.4	3.4	3.3	3.3	3.3	3.4	3.5	3.6	3.8	4.0	4.2
176.5°	3.4	3.3	3.3	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2
177°	3.3	3.3	3.3	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2
177.5°	3.3	3.3	3.3	3.2	3.3	3.4	3.5	3.6	3.8	3.9	4.1
178°	3.4	3.4	3.3	3.2	3.3	3.3	3.5	3.6	3.7	3.9	4.1
178.5°	3.4	3.4	3.3	3.3	3.3	3.4	3.5	3.6	3.7	3.9	4.1
179°	3.4	3.4	3.4	3.3	3.3	3.4	3.5	3.6	3.7	3.9	4.0
179.5°	3.5	3.5	3.4	3.3	3.3	3.4	3.5	3.6	3.8	3.9	4.0



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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: P973038

CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9
0.5°	3403.0	3394.7	3388.8	3387.0	3388.7	3387.5	3387.6	3364.9	3364.0	3366.1	3370.3
1°	3390.9	3384.0	3388.0	3394.2	3403.6	3410.3	3412.8	3360.3	3358.9	3358.1	3356.9
1.5°	3375.0	3380.8	3402.0	3426.1	3448.0	3460.3	3461.6	3403.9	3399.6	3393.6	3387.0
2°	3372.9	3396.4	3430.1	3463.0	3487.2	3500.2	3507.1	3454.7	3448.3	3441.2	3430.7
2.5°	3372.0	3417.6	3463.3	3493.2	3510.8	3512.9	3512.8	3479.6	3473.8	3472.1	3466.7
3°	3379.7	3436.7	3480.0	3502.3	3498.3	3479.2	3467.4	3459.9	3460.5	3470.6	3475.1
3.5°	3386.3	3452.4	3485.6	3477.3	3443.3	3410.3	3397.1	3389.7	3395.9	3413.4	3451.8
4°	3397.2	3457.2	3469.1	3420.5	3372.9	3357.3	3359.1	3334.5	3333.4	3348.5	3386.8
4.5°	3402.8	3454.0	3432.3	3358.7	3338.5	3343.1	3356.8	3321.1	3316.3	3319.0	3334.1
5°	3406.8	3438.6	3371.8	3319.3	3329.7	3352.3	3364.5	3335.6	3325.0	3315.7	3311.5
5.5°	3402.6	3411.0	3319.2	3304.2	3332.3	3341.0	3333.4	3321.2	3320.6	3320.6	3315.3
6°	3395.2	3368.9	3289.3	3301.0	3313.5	3279.3	3240.6	3250.4	3258.5	3294.6	3318.6
6.5°	3387.7	3321.2	3270.8	3290.0	3255.1	3171.3	3116.0	3133.4	3151.5	3216.4	3286.4
7°	3375.3	3279.3	3262.6	3254.4	3155.3	3049.9	3008.8	3017.2	3033.8	3101.7	3215.6
7.5°	3354.9	3248.8	3245.8	3184.3	3040.7	2962.7	2959.3	2946.5	2946.0	2990.9	3108.2
8°	3325.6	3225.9	3220.1	3095.1	2954.0	2932.1	2951.4	2934.0	2926.1	2924.8	3000.0
8.5°	3299.7	3201.3	3172.0	2996.5	2903.7	2921.9	2923.2	2921.1	2922.4	2911.1	2926.5
9°	3262.8	3181.9	3111.8	2916.6	2887.8	2885.4	2841.4	2851.2	2870.2	2900.8	2908.1
9.5°	3232.8	3160.7	3035.2	2867.2	2867.9	2797.5	2713.5	2738.7	2765.9	2850.3	2905.2
10°	3204.4	3134.1	2956.4	2839.6	2806.4	2673.4	2584.1	2597.3	2630.4	2739.4	2880.7
10.5°	3177.0	3103.2	2888.0	2820.1	2710.1	2551.1	2496.4	2498.1	2512.0	2604.9	2814.8
11°	3158.2	3063.3	2830.0	2782.3	2600.3	2467.6	2450.2	2446.1	2447.9	2491.7	2690.8
11.5°	3138.7	3018.1	2786.2	2713.6	2495.3	2419.1	2395.4	2401.6	2408.3	2433.3	2563.5
12°	3121.6	2970.1	2761.1	2628.7	2418.9	2368.2	2307.6	2320.7	2347.6	2398.8	2470.3
12.5°	3104.7	2916.0	2736.3	2540.2	2374.9	2286.1	2190.2	2205.1	2247.3	2347.7	2421.3
13°	3089.9	2866.0	2702.5	2446.0	2318.4	2175.1	2067.9	2074.4	2118.2	2255.6	2391.4
13.5°	3070.0	2822.0	2657.3	2375.6	2244.3	2058.3	1971.4	1970.1	2002.3	2134.1	2345.6
14°	3045.8	2781.8	2599.7	2325.5	2152.3	1960.7	1893.4	1892.7	1914.1	2011.4	2262.2
14.5°	3020.7	2745.4	2530.6	2271.0	2045.3	1878.8	1814.1	1821.3	1844.8	1920.4	2147.6
15°	2989.5	2714.9	2463.5	2211.3	1948.4	1805.3	1728.3	1732.2	1768.4	1851.9	2024.2
15.5°	2955.0	2686.1	2394.4	2141.7	1867.4	1724.8	1626.1	1624.9	1677.1	1785.2	1925.4
16°	2922.2	2657.6	2332.4	2057.9	1795.8	1632.6	1510.4	1510.5	1564.4	1703.8	1853.0
16.5°	2887.3	2625.0	2283.9	1969.8	1721.6	1527.2	1394.9	1396.0	1444.7	1606.9	1797.6
17°	2854.5	2584.2	2234.5	1892.9	1644.6	1420.9	1298.5	1295.9	1332.6	1484.7	1728.4
17.5°	2823.0	2541.6	2181.6	1816.0	1555.7	1316.6	1219.4	1247.1	1278.9	1369.6	1641.8
18°	2789.6	2497.2	2130.8	1743.3	1452.3	1230.0	1162.7	1198.4	1225.2	1272.9	1539.0
18.5°	2757.5	2443.6	2072.3	1676.3	1358.8	1165.7	1119.2	1149.7	1171.5	1221.0	1430.5
19°	2724.9	2395.1	2005.2	1607.7	1269.2	1116.1	1082.8	1100.9	1117.8	1169.2	1323.8
19.5°	2687.4	2341.9	1936.3	1530.4	1190.0	1075.5	1049.3	1052.3	1064.7	1117.4	1268.5
20°	2651.8	2284.9	1864.2	1453.8	1131.0	1042.5	1016.7	1019.4	1030.2	1065.9	1213.3
20.5°	2618.2	2228.0	1785.6	1366.9	1081.3	1008.2	981.4	986.2	997.2	1033.7	1158.1
21°	2579.5	2180.7	1718.8	1283.5	1042.7	976.2	947.8	951.4	963.3	1001.6	1102.8
21.5°	2544.6	2130.2	1654.2	1211.9	1009.6	944.2	913.7	916.6	929.2	968.1	1048.6
22°	2513.9	2087.4	1591.2	1143.1	977.9	910.6	877.5	881.5	894.6	935.9	1017.3



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	2480.6	2051.3	1537.8	1089.0	947.0	877.4	843.1	847.4	860.3	904.1	986.9
23°	2454.2	2015.7	1480.8	1046.7	917.3	845.0	810.5	813.3	827.6	871.2	957.4
23.5°	2427.2	1974.2	1412.3	1008.1	886.3	810.8	776.5	781.3	796.0	840.1	928.2
24°	2402.0	1932.0	1348.8	976.9	854.9	779.5	744.0	748.3	762.5	808.4	899.0
24.5°	2374.7	1882.4	1283.7	948.5	826.2	750.0	713.8	717.1	731.8	777.5	870.4
25°	2347.7	1823.6	1214.9	919.9	795.2	718.3	681.6	686.0	701.4	748.3	841.4
25.5°	2320.3	1766.7	1157.1	892.1	764.5	687.1	650.4	654.6	670.0	718.7	812.5
26°	2292.0	1704.0	1108.0	867.2	737.7	659.4	622.1	624.7	640.4	689.8	784.5
26.5°	2263.8	1646.0	1059.1	840.7	709.3	630.4	592.1	596.3	611.9	661.1	757.9
27°	2230.2	1596.2	1022.3	813.8	680.7	601.9	563.8	566.8	581.5	632.8	730.0
27.5°	2195.5	1548.2	989.0	788.6	654.6	574.2	545.8	538.3	553.2	604.3	702.9
28°	2159.2	1504.5	958.5	763.4	628.0	549.3	518.0	511.9	526.7	577.8	675.8
28.5°	2122.6	1464.7	931.9	737.3	600.7	524.6	489.8	485.7	499.7	550.8	649.8
29°	2089.3	1425.9	909.0	713.7	576.5	499.9	461.5	460.0	473.3	525.1	623.7
29.5°	2059.3	1387.3	884.2	689.2	552.2	475.3	433.2	436.8	449.1	501.2	598.6
30°	2028.0	1349.3	862.2	664.5	529.3	450.6	410.6	414.5	425.8	477.6	573.7
30.5°	2003.1	1307.3	840.8	642.2	506.4	426.0	390.5	393.7	404.3	454.1	549.8
31°	1981.6	1266.0	817.0	619.2	483.4	404.1	370.3	374.0	384.1	432.8	526.4
31.5°	1960.6	1230.3	795.5	595.6	460.5	383.4	351.4	355.6	364.1	412.5	504.8
32°	1946.4	1192.2	774.8	575.0	437.6	365.4	335.2	338.7	346.2	392.8	484.0
32.5°	1930.4	1158.1	753.2	553.3	417.6	347.0	318.8	323.2	329.4	374.2	463.6
33°	1913.5	1130.2	734.9	533.7	398.3	329.7	303.6	308.5	313.5	356.9	444.2
33.5°	1897.0	1102.1	717.3	514.2	381.0	314.3	290.1	295.1	299.1	340.3	425.7
34°	1878.8	1078.6	697.3	494.6	364.2	299.5	277.6	282.5	285.1	324.2	407.9
34.5°	1857.3	1059.4	679.4	475.1	347.5	284.9	265.8	270.6	272.1	309.0	391.0
35°	1837.9	1042.1	662.7	455.6	332.7	272.5	255.7	259.9	260.7	295.1	374.7
35.5°	1816.3	1026.6	645.0	437.9	318.5	260.7	245.8	249.9	250.1	281.8	357.8
36°	1793.1	1014.8	629.1	420.2	304.1	249.4	236.5	240.8	240.1	269.6	342.3
36.5°	1772.4	1002.1	614.0	405.0	291.1	239.2	228.1	232.2	231.4	258.1	327.7
37°	1750.9	990.3	597.3	389.3	279.0	229.7	220.1	223.8	223.1	247.6	313.2
37.5°	1731.4	980.3	582.8	374.6	266.6	221.0	212.2	216.1	215.2	237.8	299.3
38°	1713.3	968.2	569.0	361.1	255.6	213.1	204.9	208.6	207.8	228.8	286.3
38.5°	1697.1	957.0	553.9	348.3	245.2	205.6	198.0	201.4	200.7	220.3	274.0
39°	1682.2	947.3	541.0	335.7	235.0	198.5	191.3	194.9	194.0	213.0	263.0
39.5°	1669.1	936.3	528.3	324.4	225.7	191.9	185.1	188.4	187.6	205.2	251.8
40°	1654.4	925.0	515.5	312.8	217.0	185.6	179.1	182.6	181.8	198.1	241.7
40.5°	1639.4	916.0	502.8	301.9	208.6	179.4	173.0	176.9	176.1	191.5	232.4
41°	1626.9	904.9	490.0	292.5	201.2	173.9	168.0	171.7	170.7	184.9	223.5
41.5°	1613.6	893.8	477.4	283.1	194.2	168.5	163.0	166.6	165.8	178.9	215.3
42°	1599.8	884.1	466.2	273.2	187.0	163.2	158.1	161.7	161.0	173.3	207.9
42.5°	1588.5	873.4	455.8	265.0	180.7	158.4	153.6	157.1	156.3	168.0	200.7
43°	1576.0	863.9	444.5	257.0	175.0	153.8	149.1	152.6	151.7	162.9	193.8
43.5°	1562.4	854.4	433.6	248.6	169.0	149.2	144.6	148.2	147.3	158.0	187.3
44°	1551.0	844.4	423.7	240.9	163.6	144.9	140.4	144.0	143.0	153.3	181.3
44.5°	1540.2	834.8	413.1	234.1	158.8	140.7	136.5	139.9	138.8	148.9	175.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1528.2	825.1	403.2	227.1	153.8	136.6	132.5	136.3	134.8	144.4	169.9
45.5°	1517.7	814.8	394.2	220.6	149.2	132.7	128.9	132.6	131.0	140.0	164.5
46°	1508.1	806.3	384.0	213.9	145.1	129.1	125.4	129.1	127.8	136.0	159.6
46.5°	1496.7	798.8	375.3	207.8	140.8	125.5	121.9	125.9	124.6	131.8	154.7
47°	1487.0	790.0	367.2	202.0	136.8	121.9	118.5	122.7	121.3	128.4	150.2
47.5°	1476.7	782.7	358.8	196.3	133.0	118.5	115.2	119.5	118.1	125.1	145.8
48°	1464.6	776.0	351.6	190.6	129.3	115.1	112.0	116.3	114.9	121.7	141.7
48.5°	1453.6	767.5	344.3	185.7	125.8	112.0	108.9	113.0	111.8	118.3	137.4
49°	1439.6	758.5	336.7	180.8	122.3	108.8	105.7	109.8	108.8	115.0	133.5
49.5°	1423.9	750.9	330.0	176.0	118.9	105.6	102.4	106.7	105.6	111.8	129.7
50°	1411.1	741.1	323.6	171.7	115.6	102.7	99.3	103.5	102.6	108.7	126.3
50.5°	1398.1	729.2	316.7	167.6	112.4	99.8	96.3	100.5	99.6	105.7	122.9
51°	1382.8	717.7	310.5	163.5	109.1	96.9	93.4	97.4	96.7	102.8	119.5
51.5°	1371.0	705.9	305.1	159.8	106.0	94.1	90.5	94.5	93.9	99.8	116.1
52°	1357.5	693.6	299.0	156.1	103.1	91.5	87.9	91.7	91.2	97.0	112.9
52.5°	1342.5	683.4	294.0	152.4	100.1	88.8	85.4	88.9	88.6	94.0	109.7
53°	1329.2	672.8	289.1	148.9	97.1	86.1	82.9	86.3	86.0	91.2	106.7
53.5°	1312.2	660.8	283.4	145.6	94.5	83.6	80.6	83.7	83.4	88.4	103.7
54°	1294.5	649.1	278.3	142.1	91.7	81.0	78.2	81.3	80.9	85.6	100.9
54.5°	1277.3	637.2	273.7	138.8	89.0	78.6	75.9	78.9	78.6	83.0	98.2
55°	1261.8	626.5	268.5	135.5	86.5	76.3	73.6	76.5	76.2	80.5	95.6
55.5°	1246.9	616.0	264.0	132.4	84.0	73.9	71.3	74.2	73.9	77.7	93.0
56°	1233.1	604.4	259.7	129.2	81.5	71.6	69.1	72.0	71.6	75.1	90.5
56.5°	1219.9	593.2	255.0	126.1	79.1	69.2	67.2	69.9	69.3	72.6	87.9
57°	1207.0	582.4	250.1	122.8	76.6	66.9	65.2	67.9	67.2	70.1	85.3
57.5°	1196.7	572.9	245.6	119.9	74.2	64.8	63.2	65.9	65.2	67.5	82.6
58°	1184.1	563.1	240.0	116.9	71.9	62.7	61.1	63.8	63.2	65.1	80.0
58.5°	1171.8	554.6	234.7	113.9	69.4	60.5	58.8	61.5	60.9	62.8	77.4
59°	1160.7	546.4	229.8	110.8	66.9	58.4	56.3	59.2	58.7	60.7	74.8
59.5°	1149.7	536.8	224.6	107.9	64.5	56.2	53.6	56.8	56.3	58.5	72.1
60°	1140.5	527.2	219.5	104.8	62.1	53.6	50.9	53.7	53.7	56.1	69.5
60.5°	1132.2	517.7	214.1	101.9	59.9	51.1	48.1	50.2	50.5	53.6	67.0
61°	1119.6	508.1	208.4	99.0	57.8	48.5	45.4	46.9	47.1	51.1	64.6
61.5°	1101.5	499.7	203.3	95.9	55.3	45.9	42.7	44.3	44.0	48.3	62.2
62°	1085.9	490.3	198.9	92.9	53.0	43.3	39.5	41.0	41.4	45.1	59.9
62.5°	1071.5	480.1	194.4	90.0	50.8	40.6	35.0	34.2	37.7	42.1	57.4
63°	1057.9	469.1	189.8	87.0	48.6	37.6	26.5	27.4	30.1	39.3	54.7
63.5°	1042.4	457.1	184.9	84.2	46.4	33.7	17.1	20.5	22.6	34.6	52.0
64°	1024.9	444.5	179.2	81.4	43.9	26.6	7.7	13.7	15.1	27.7	49.2
64.5°	1006.0	432.4	173.7	78.5	41.3	17.7	6.0	6.9	7.5	20.7	46.4
65°	983.4	418.7	167.9	75.7	38.6	9.0	4.6	0.1	0.3	13.8	43.3
65.5°	962.5	405.8	161.6	72.8	34.6	2.3	3.1	0.1	0.1	6.9	38.9
66°	939.8	393.3	156.4	69.8	28.0	1.6	1.7	0.1	0.1	0.2	32.1
66.5°	917.1	378.7	152.0	67.0	20.7	1.1	0.2	0.1	0.1	0.1	24.5
67°	895.2	366.6	147.5	64.3	14.4	0.7	0.1	0.1	0.1	0.1	17.5



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	869.0	354.9	142.7	61.2	11.0	0.2	0.1	0.1	0.1	0.1	14.8
68°	842.2	341.5	137.5	57.1	10.3	0.1	0.1	0.1	0.1	0.1	14.4
68.5°	818.7	330.0	131.9	53.3	10.0	0.1	0.1	0.1	0.1	0.1	14.1
69°	793.3	319.0	126.8	49.6	9.7	0.1	0.1	0.1	0.1	0.1	13.8
69.5°	767.0	307.2	121.7	45.8	9.5	0.1	0.1	0.1	0.1	0.1	13.6
70°	740.2	296.3	116.0	42.0	9.4	0.1	0.1	0.1	0.1	0.1	13.4
70.5°	714.2	285.7	110.8	38.2	9.2	0.1	0.1	0.1	0.1	0.2	13.2
71°	686.4	274.3	105.2	37.2	9.1	0.1	0.1	0.2	0.2	0.2	13.0
71.5°	656.9	262.4	98.1	36.4	8.9	0.1	0.1	0.2	0.2	0.2	12.8
72°	629.4	250.8	91.4	35.5	8.8	0.1	0.1	0.2	0.2	0.2	12.6
72.5°	601.4	238.0	85.9	34.7	8.7	0.2	0.1	0.2	0.2	0.2	12.4
73°	575.0	225.1	81.9	34.0	8.6	0.2	0.2	0.2	0.2	0.2	12.3
73.5°	548.9	214.7	78.8	33.3	8.5	0.2	0.2	0.2	0.2	0.2	12.1
74°	527.6	205.0	76.1	32.6	8.4	0.2	0.2	0.2	0.2	0.2	11.9
74.5°	506.2	196.4	73.2	31.9	8.3	0.2	0.2	0.2	0.2	0.2	11.7
75°	484.8	189.7	70.7	31.2	8.2	0.2	0.2	0.2	0.2	0.2	11.5
75.5°	463.5	183.4	68.3	30.4	8.1	0.2	0.2	0.2	0.2	0.2	11.3
76°	442.1	176.5	65.8	29.7	8.0	0.2	0.2	0.2	0.2	0.2	11.1
76.5°	423.3	169.8	63.5	29.0	7.8	0.2	0.2	0.2	0.2	0.3	10.8
77°	405.8	164.2	61.5	28.2	7.7	0.2	0.2	0.2	0.3	0.3	10.6
77.5°	388.3	157.5	59.4	27.4	7.6	0.2	0.2	0.3	0.3	0.3	10.4
78°	370.5	150.8	57.3	26.7	7.4	0.2	0.2	0.3	0.3	0.3	10.2
78.5°	352.4	143.6	55.1	25.9	7.3	0.2	0.2	0.3	0.3	0.3	10.0
79°	334.2	137.3	53.5	25.1	7.1	0.2	0.2	0.3	0.3	0.3	9.8
79.5°	316.2	131.4	51.9	24.3	6.9	0.2	0.2	0.3	0.3	0.3	9.5
80°	300.0	126.3	50.4	23.6	6.8	0.2	0.2	0.3	0.3	0.3	9.3
80.5°	283.5	120.9	48.9	22.8	6.6	0.2	0.2	0.3	0.3	0.3	9.1
81°	267.1	115.5	47.1	22.0	6.5	0.2	0.2	0.3	0.3	0.3	8.9
81.5°	251.0	110.2	45.3	21.1	6.3	0.2	0.2	0.3	0.3	0.3	8.7
82°	234.8	103.9	43.2	20.3	6.1	0.2	0.2	0.3	0.3	0.4	8.5
82.5°	219.7	97.2	41.2	19.5	6.0	0.2	0.2	0.4	0.4	0.4	8.3
83°	205.0	90.6	39.3	18.7	5.8	0.3	0.3	0.4	0.4	0.4	8.1
83.5°	189.7	84.9	37.2	18.0	5.7	0.3	0.3	0.4	0.4	0.4	7.9
84°	173.5	79.2	35.2	17.2	5.5	0.3	0.3	0.4	0.4	0.4	7.7
84.5°	158.9	73.3	33.3	16.5	5.4	0.3	0.3	0.4	0.4	0.4	7.5
85°	146.0	68.0	31.4	15.8	5.2	0.3	0.3	0.4	0.5	0.5	7.3
85.5°	134.0	63.1	29.7	15.1	5.1	0.3	0.3	0.5	0.5	0.5	7.1
86°	122.3	58.4	28.2	14.5	5.0	0.3	0.3	0.5	0.5	0.5	6.9
86.5°	111.0	54.2	26.6	13.9	4.8	0.3	0.3	0.5	0.5	0.5	6.7
87°	100.9	50.7	25.3	13.3	4.7	0.4	0.4	0.5	0.5	0.5	6.6
87.5°	91.9	47.3	24.0	12.8	4.6	0.4	0.4	0.6	0.6	0.6	6.4
88°	83.3	43.9	22.8	12.3	4.5	0.4	0.4	0.6	0.6	0.6	6.2
88.5°	76.0	40.4	21.7	11.9	4.4	0.4	0.4	0.6	0.6	0.6	6.0
89°	69.2	37.8	20.7	11.4	4.2	0.4	0.4	0.6	0.6	0.6	5.8
89.5°	63.7	35.4	19.8	11.0	4.1	0.5	0.5	0.7	0.7	0.7	5.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	58.8	33.3	19.0	10.6	4.0	0.5	0.5	0.7	0.7	0.7	5.5
90.5°	54.2	31.5	18.2	10.2	3.9	0.5	0.5	0.7	0.7	0.7	5.3
91°	51.5	29.9	17.5	9.8	3.8	0.5	0.5	0.7	0.7	0.8	5.2
91.5°	48.8	28.6	16.8	9.5	3.7	0.5	0.5	0.8	0.8	0.8	5.1
92°	46.2	27.5	16.2	9.2	3.6	0.6	0.6	0.8	0.8	0.8	5.0
92.5°	43.6	26.5	15.7	9.0	3.5	0.6	0.6	0.8	0.8	0.8	4.8
93°	42.0	25.7	15.3	8.7	3.4	0.6	0.6	0.8	0.9	0.9	4.7
93.5°	40.6	25.2	15.0	8.5	3.3	0.6	0.6	0.9	0.9	0.9	4.6
94°	39.4	24.8	14.7	8.3	3.2	0.6	0.6	0.9	0.9	0.9	4.5
94.5°	38.6	24.5	14.4	8.1	3.2	0.7	0.7	0.9	0.9	0.9	4.4
95°	38.1	24.2	14.1	7.9	3.1	0.7	0.7	1.0	1.0	1.0	4.3
95.5°	37.7	24.0	13.8	7.8	3.0	0.7	0.7	1.0	1.0	1.0	4.2
96°	37.3	23.7	13.6	7.7	3.0	0.7	0.7	1.0	1.0	1.0	4.2
96.5°	36.9	23.4	13.3	7.6	2.9	0.7	0.8	1.1	1.1	1.1	4.1
97°	36.5	23.1	13.1	7.4	2.8	0.8	0.8	1.1	1.1	1.1	4.0
97.5°	36.0	22.8	12.9	7.3	2.8	0.8	0.8	1.1	1.1	1.1	4.0
98°	35.5	22.6	12.7	7.2	2.8	0.8	0.8	1.1	1.2	1.1	3.9
98.5°	34.9	22.3	12.5	7.1	2.7	0.8	0.9	1.2	1.2	1.2	3.9
99°	34.4	21.9	12.3	7.0	2.7	0.9	0.9	1.2	1.2	1.2	3.8
99.5°	33.9	21.6	12.2	6.9	2.6	0.9	0.9	1.2	1.2	1.2	3.7
100°	33.3	21.2	12.0	6.8	2.6	0.9	0.9	1.3	1.3	1.3	3.7
100.5°	32.8	20.8	11.8	6.7	2.6	0.9	1.0	1.3	1.3	1.3	3.6
101°	32.3	20.4	11.7	6.7	2.5	1.0	1.0	1.3	1.3	1.3	3.6
101.5°	31.8	20.1	11.6	6.6	2.5	1.0	1.0	1.4	1.4	1.4	3.5
102°	31.4	19.8	11.4	6.5	2.5	1.0	1.0	1.4	1.4	1.4	3.5
102.5°	31.0	19.5	11.4	6.4	2.5	1.0	1.1	1.4	1.4	1.4	3.4
103°	30.6	19.2	11.3	6.4	2.4	1.1	1.1	1.5	1.5	1.5	3.3
103.5°	30.3	19.0	11.2	6.3	2.4	1.1	1.1	1.5	1.5	1.5	3.2
104°	30.1	18.8	11.0	6.3	2.4	1.1	1.1	1.6	1.5	1.5	3.2
104.5°	29.9	18.6	10.9	6.2	2.4	1.1	1.2	1.6	1.6	1.6	3.1
105°	29.8	18.4	10.8	6.2	2.4	1.2	1.2	1.6	1.6	1.6	3.1
105.5°	29.7	18.3	10.7	6.1	2.4	1.2	1.2	1.7	1.7	1.7	3.1
106°	29.6	18.2	10.6	6.0	2.3	1.2	1.3	1.7	1.7	1.7	3.1
106.5°	29.5	18.2	10.5	5.9	2.3	1.3	1.3	1.8	1.8	1.7	3.1
107°	29.5	18.2	10.4	5.9	2.3	1.3	1.3	1.8	1.8	1.8	3.1
107.5°	29.5	18.1	10.3	5.8	2.3	1.3	1.4	1.9	1.8	1.8	3.1
108°	29.6	18.1	10.2	5.7	2.3	1.4	1.4	1.9	1.9	1.8	3.1
108.5°	29.6	18.1	10.2	5.6	2.3	1.4	1.4	1.9	1.9	1.9	3.1
109°	29.6	18.1	10.1	5.5	2.3	1.4	1.5	2.0	1.9	1.9	3.1
109.5°	29.6	18.1	10.1	5.5	2.3	1.5	1.5	2.0	2.0	1.9	3.1
110°	29.7	18.1	10.1	5.4	2.4	1.5	1.5	2.0	2.0	2.0	3.1
110.5°	29.7	18.0	10.1	5.4	2.4	1.5	1.6	2.1	2.0	2.0	3.1
111°	29.7	18.0	10.1	5.3	2.4	1.6	1.6	2.1	2.1	2.0	3.2
111.5°	29.7	18.0	10.1	5.3	2.4	1.6	1.6	2.1	2.1	2.1	3.2
112°	29.8	17.9	10.1	5.3	2.5	1.6	1.7	2.1	2.1	2.1	3.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	29.8	17.9	10.2	5.3	2.5	1.7	1.7	2.2	2.1	2.1	3.2
113°	29.8	17.8	10.2	5.3	2.6	1.7	1.8	2.2	2.2	2.1	3.2
113.5°	29.9	17.8	10.2	5.3	2.6	1.8	1.8	2.2	2.2	2.2	3.2
114°	29.9	17.8	10.1	5.3	2.6	1.8	1.9	2.3	2.2	2.2	3.2
114.5°	29.9	17.7	10.1	5.3	2.7	1.9	1.9	2.3	2.2	2.2	3.3
115°	29.9	17.7	10.1	5.4	2.7	1.9	1.9	2.3	2.3	2.2	3.3
115.5°	29.9	17.7	10.1	5.4	2.8	1.9	2.0	2.3	2.3	2.3	3.3
116°	29.9	17.6	10.0	5.5	2.8	2.0	2.0	2.4	2.3	2.3	3.3
116.5°	30.0	17.6	10.0	5.6	2.9	2.0	2.1	2.4	2.4	2.3	3.3
117°	30.0	17.5	10.0	5.7	3.0	2.1	2.1	2.4	2.4	2.3	3.4
117.5°	30.1	17.5	9.9	5.8	3.0	2.1	2.2	2.5	2.4	2.4	3.4
118°	30.2	17.5	9.9	5.8	3.1	2.2	2.2	2.5	2.5	2.4	3.4
118.5°	30.2	17.5	9.9	5.9	3.1	2.2	2.3	2.5	2.5	2.4	3.4
119°	30.3	17.4	9.9	6.0	3.2	2.3	2.3	2.5	2.5	2.5	3.5
119.5°	30.3	17.4	9.9	6.0	3.3	2.4	2.4	2.6	2.5	2.5	3.5
120°	30.3	17.4	9.9	6.1	3.3	2.4	2.4	2.6	2.6	2.5	3.5
120.5°	30.4	17.4	9.9	6.1	3.4	2.5	2.5	2.6	2.6	2.6	3.5
121°	30.4	17.4	10.0	6.2	3.4	2.5	2.5	2.7	2.6	2.6	3.6
121.5°	30.4	17.4	10.0	6.3	3.4	2.6	2.6	2.7	2.7	2.6	3.6
122°	30.4	17.4	10.0	6.3	3.5	2.6	2.6	2.7	2.7	2.7	3.6
122.5°	30.4	17.4	10.1	6.4	3.5	2.7	2.7	2.8	2.7	2.7	3.7
123°	30.4	17.4	10.1	6.4	3.5	2.7	2.7	2.8	2.8	2.7	3.7
123.5°	30.5	17.5	10.2	6.5	3.6	2.8	2.8	2.8	2.8	2.8	3.7
124°	30.5	17.6	10.3	6.5	3.6	2.8	2.8	2.9	2.8	2.8	3.8
124.5°	30.5	17.6	10.3	6.5	3.6	2.9	2.9	2.9	2.9	2.8	3.8
125°	30.6	17.7	10.4	6.6	3.7	2.9	2.9	2.9	2.9	2.9	3.9
125.5°	30.7	17.8	10.5	6.6	3.7	3.0	3.0	3.0	3.0	2.9	4.0
126°	30.8	17.9	10.5	6.7	3.7	3.0	3.0	3.0	3.0	3.0	4.0
126.5°	31.0	18.1	10.6	6.7	3.8	3.0	3.1	3.1	3.1	3.0	4.1
127°	31.1	18.2	10.7	6.7	3.8	3.1	3.1	3.2	3.1	3.1	4.2
127.5°	31.3	18.3	10.8	6.8	3.8	3.1	3.2	3.2	3.2	3.1	4.2
128°	31.5	18.4	10.9	6.8	3.8	3.2	3.2	3.3	3.2	3.2	4.3
128.5°	31.7	18.5	10.9	6.8	3.9	3.2	3.2	3.3	3.3	3.2	4.3
129°	32.0	18.7	11.0	6.9	3.9	3.2	3.3	3.4	3.3	3.3	4.4
129.5°	32.2	18.8	11.1	6.9	3.9	3.3	3.3	3.4	3.4	3.3	4.4
130°	32.4	19.0	11.2	6.9	4.0	3.3	3.4	3.5	3.4	3.4	4.4
130.5°	32.7	19.1	11.2	6.9	4.0	3.4	3.4	3.5	3.5	3.4	4.5
131°	33.0	19.3	11.3	7.0	4.0	3.4	3.5	3.6	3.6	3.5	4.5
131.5°	33.2	19.4	11.4	7.0	4.0	3.4	3.5	3.6	3.6	3.5	4.5
132°	33.4	19.6	11.5	7.0	4.1	3.5	3.6	3.7	3.7	3.6	4.6
132.5°	33.7	19.7	11.6	7.0	4.1	3.5	3.6	3.7	3.7	3.6	4.6
133°	33.9	19.8	11.6	7.1	4.1	3.6	3.6	3.8	3.8	3.7	4.6
133.5°	34.2	20.0	11.7	7.1	4.1	3.6	3.7	3.9	3.8	3.8	4.6
134°	34.4	20.1	11.7	7.1	4.2	3.6	3.7	3.9	3.9	3.8	4.7
134.5°	34.6	20.2	11.8	7.1	4.2	3.7	3.7	4.0	3.9	3.9	4.7



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	34.9	20.3	11.8	7.1	4.2	3.7	3.8	4.0	4.0	3.9	4.7
135.5°	35.1	20.3	11.9	7.1	4.2	3.7	3.8	4.1	4.0	4.0	4.8
136°	35.2	20.4	11.9	7.1	4.2	3.7	3.8	4.1	4.1	4.0	4.8
136.5°	35.4	20.5	11.9	7.1	4.2	3.8	3.8	4.2	4.1	4.1	4.8
137°	35.6	20.5	11.9	7.1	4.2	3.8	3.9	4.2	4.2	4.1	4.8
137.5°	35.7	20.5	12.0	7.1	4.3	3.8	3.9	4.2	4.2	4.2	4.8
138°	35.8	20.6	12.0	7.1	4.3	3.9	3.9	4.3	4.3	4.2	4.9
138.5°	35.9	20.6	12.0	7.1	4.3	3.9	4.0	4.3	4.3	4.2	4.9
139°	36.0	20.6	12.0	7.1	4.3	3.9	4.0	4.4	4.4	4.3	4.9
139.5°	36.0	20.6	12.0	7.1	4.3	3.9	4.0	4.4	4.4	4.3	4.9
140°	36.0	20.6	11.9	7.1	4.3	4.0	4.0	4.4	4.4	4.4	4.9
140.5°	36.0	20.5	11.9	7.1	4.3	4.0	4.1	4.5	4.5	4.4	4.9
141°	35.9	20.5	11.9	7.0	4.3	4.0	4.1	4.5	4.5	4.4	5.0
141.5°	35.8	20.4	11.8	7.0	4.3	4.0	4.1	4.5	4.5	4.5	5.0
142°	35.7	20.4	11.8	7.0	4.3	4.0	4.1	4.6	4.6	4.5	5.0
142.5°	35.5	20.3	11.7	6.9	4.3	4.0	4.1	4.6	4.6	4.5	5.0
143°	35.3	20.2	11.6	6.9	4.3	4.0	4.1	4.6	4.6	4.6	5.0
143.5°	35.1	20.1	11.5	6.9	4.3	4.1	4.1	4.6	4.6	4.6	5.0
144°	34.9	20.1	11.5	6.8	4.3	4.1	4.1	4.7	4.7	4.6	5.0
144.5°	34.5	19.9	11.4	6.8	4.3	4.1	4.2	4.7	4.7	4.6	5.0
145°	34.2	19.8	11.3	6.7	4.3	4.1	4.2	4.7	4.7	4.6	5.0
145.5°	33.8	19.7	11.2	6.7	4.3	4.1	4.2	4.7	4.7	4.7	5.0
146°	33.4	19.6	11.1	6.6	4.3	4.1	4.2	4.7	4.7	4.7	4.9
146.5°	32.9	19.4	11.0	6.5	4.3	4.1	4.2	4.7	4.7	4.7	4.9
147°	32.4	19.2	10.9	6.5	4.2	4.1	4.2	4.7	4.7	4.7	4.9
147.5°	31.9	19.1	10.8	6.4	4.2	4.1	4.2	4.7	4.7	4.7	4.9
148°	31.3	18.9	10.7	6.4	4.2	4.1	4.2	4.7	4.7	4.7	4.8
148.5°	30.7	18.7	10.6	6.3	4.2	4.2	4.2	4.7	4.7	4.7	4.8
149°	30.0	18.5	10.5	6.2	4.2	4.2	4.3	4.7	4.7	4.7	4.8
149.5°	29.4	18.2	10.3	6.2	4.2	4.2	4.3	4.7	4.7	4.7	4.8
150°	28.6	18.0	10.2	6.1	4.2	4.2	4.3	4.7	4.7	4.7	4.7
150.5°	27.9	17.7	10.1	6.0	4.2	4.2	4.3	4.7	4.7	4.7	4.7
151°	27.2	17.4	10.0	6.0	4.1	4.2	4.3	4.7	4.7	4.6	4.6
151.5°	26.4	17.1	9.8	5.9	4.1	4.2	4.3	4.6	4.7	4.6	4.6
152°	25.6	16.8	9.7	5.8	4.1	4.2	4.3	4.6	4.7	4.6	4.6
152.5°	24.9	16.5	9.6	5.7	4.1	4.2	4.3	4.6	4.6	4.6	4.5
153°	24.0	16.1	9.4	5.7	4.1	4.2	4.3	4.6	4.6	4.6	4.5
153.5°	23.3	15.8	9.3	5.6	4.1	4.2	4.3	4.6	4.6	4.6	4.5
154°	22.4	15.4	9.1	5.5	4.0	4.2	4.3	4.6	4.6	4.6	4.4
154.5°	21.6	15.0	8.9	5.4	4.0	4.2	4.3	4.6	4.6	4.5	4.4
155°	20.8	14.6	8.8	5.3	4.0	4.2	4.3	4.5	4.5	4.5	4.4
155.5°	20.0	14.2	8.6	5.2	4.0	4.2	4.3	4.5	4.5	4.5	4.4
156°	19.2	13.8	8.4	5.1	4.0	4.2	4.3	4.5	4.5	4.5	4.3
156.5°	18.4	13.3	8.2	4.9	4.0	4.2	4.3	4.5	4.5	4.4	4.3
157°	17.6	12.9	8.0	4.8	4.0	4.2	4.3	4.5	4.5	4.4	4.3



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	16.8	12.5	7.8	4.7	4.0	4.2	4.4	4.4	4.4	4.4	4.3
158°	16.0	12.0	7.6	4.6	4.1	4.3	4.4	4.4	4.4	4.4	4.3
158.5°	15.3	11.5	7.4	4.5	4.1	4.3	4.4	4.4	4.4	4.4	4.3
159°	14.5	11.1	7.2	4.4	4.1	4.3	4.4	4.4	4.4	4.4	4.2
159.5°	13.8	10.6	6.9	4.3	4.1	4.3	4.4	4.4	4.4	4.3	4.2
160°	13.1	10.1	6.7	4.2	4.1	4.3	4.5	4.4	4.4	4.3	4.2
160.5°	12.4	9.7	6.4	4.1	4.1	4.3	4.5	4.4	4.3	4.3	4.2
161°	11.7	9.2	6.1	4.1	4.1	4.3	4.5	4.3	4.3	4.3	4.2
161.5°	11.0	8.7	5.8	4.1	4.1	4.3	4.5	4.3	4.3	4.3	4.2
162°	10.3	8.2	5.6	4.0	4.1	4.3	4.5	4.3	4.3	4.2	4.1
162.5°	9.7	7.7	5.3	3.9	4.1	4.3	4.5	4.3	4.3	4.2	4.1
163°	9.1	7.3	5.0	3.9	4.1	4.3	4.5	4.2	4.2	4.2	4.1
163.5°	8.5	6.8	4.8	3.9	4.1	4.3	4.5	4.2	4.2	4.2	4.1
164°	7.9	6.4	4.6	3.9	4.2	4.4	4.5	4.2	4.2	4.1	4.0
164.5°	7.4	6.0	4.4	4.0	4.2	4.4	4.5	4.2	4.2	4.1	4.0
165°	6.9	5.7	4.3	4.0	4.2	4.4	4.6	4.1	4.1	4.1	4.0
165.5°	6.5	5.4	4.1	4.1	4.3	4.5	4.6	4.1	4.1	4.1	4.0
166°	6.0	5.0	4.0	4.2	4.3	4.5	4.7	4.1	4.1	4.1	4.0
166.5°	5.6	4.7	4.1	4.2	4.4	4.6	4.7	4.1	4.1	4.1	4.0
167°	5.3	4.5	4.1	4.3	4.4	4.6	4.8	4.1	4.1	4.1	4.0
167.5°	4.9	4.2	4.2	4.3	4.5	4.7	4.8	4.1	4.1	4.1	4.0
168°	4.5	4.1	4.2	4.3	4.5	4.7	4.8	4.1	4.1	4.1	4.0
168.5°	4.2	4.0	4.2	4.3	4.5	4.7	4.8	4.1	4.1	4.1	4.0
169°	3.9	4.1	4.2	4.3	4.5	4.7	4.8	4.1	4.1	4.1	4.0
169.5°	3.9	4.1	4.2	4.4	4.5	4.7	4.9	4.1	4.1	4.0	4.0
170°	3.9	4.1	4.2	4.4	4.5	4.7	4.9	4.1	4.1	4.0	3.9
170.5°	3.9	4.1	4.3	4.4	4.6	4.8	4.9	4.0	4.0	4.0	3.9
171°	3.9	4.1	4.3	4.4	4.6	4.8	4.9	4.0	4.0	4.0	3.9
171.5°	4.0	4.2	4.3	4.5	4.6	4.8	5.0	4.0	4.0	3.9	3.9
172°	4.0	4.2	4.4	4.5	4.7	4.9	5.1	4.0	4.0	3.9	3.8
172.5°	4.1	4.3	4.5	4.6	4.8	5.0	5.1	4.0	4.0	3.9	3.8
173°	4.2	4.4	4.5	4.7	4.8	5.1	5.2	4.0	4.0	3.9	3.8
173.5°	4.3	4.4	4.6	4.8	4.9	5.1	5.3	3.9	3.9	3.9	3.8
174°	4.3	4.4	4.6	4.8	4.9	5.1	5.3	3.9	3.9	3.8	3.7
174.5°	4.3	4.4	4.6	4.8	4.9	5.1	5.3	3.9	3.9	3.8	3.7
175°	4.3	4.5	4.6	4.8	4.9	5.1	5.3	3.9	3.9	3.8	3.7
175.5°	4.3	4.5	4.6	4.8	4.9	5.1	5.2	3.9	3.8	3.8	3.7
176°	4.3	4.5	4.6	4.7	4.9	5.1	5.2	3.8	3.8	3.8	3.7
176.5°	4.3	4.5	4.6	4.7	4.9	5.0	5.2	3.8	3.8	3.7	3.6
177°	4.3	4.5	4.6	4.7	4.8	5.0	5.1	3.7	3.7	3.7	3.6
177.5°	4.3	4.4	4.5	4.6	4.8	4.9	5.1	3.7	3.7	3.6	3.6
178°	4.2	4.4	4.5	4.6	4.7	4.9	5.0	3.7	3.7	3.6	3.5
178.5°	4.2	4.3	4.4	4.5	4.7	4.9	5.0	3.6	3.6	3.6	3.5
179°	4.2	4.3	4.4	4.5	4.6	4.8	4.9	3.6	3.6	3.5	3.5
179.5°	4.1	4.3	4.4	4.5	4.6	4.8	4.9	3.6	3.5	3.5	3.4



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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: P973038

CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9
0.5°	3375.4	3380.1	3388.9	3398.7	3407.9	3418.9	3431.1	3442.1	3450.0	3458.0	3468.4
1°	3358.7	3361.1	3372.6	3387.5	3401.1	3419.6	3442.6	3466.1	3488.3	3499.3	3508.0
1.5°	3382.0	3372.3	3366.6	3373.5	3393.2	3420.4	3450.9	3487.8	3504.7	3500.2	3483.6
2°	3414.9	3393.8	3380.0	3369.7	3384.3	3418.0	3463.4	3498.6	3489.5	3455.2	3407.3
2.5°	3447.5	3422.2	3401.9	3376.1	3377.1	3416.2	3471.9	3496.6	3451.8	3372.1	3285.2
3°	3472.4	3449.8	3418.5	3386.6	3372.4	3412.4	3478.0	3478.8	3385.4	3271.1	3172.1
3.5°	3476.8	3465.9	3437.2	3398.4	3369.4	3412.4	3484.9	3446.4	3314.4	3180.1	3108.9
4°	3441.2	3468.8	3454.7	3410.0	3373.7	3412.9	3487.7	3415.8	3241.3	3110.8	3085.2
4.5°	3381.6	3452.9	3471.1	3429.8	3376.4	3410.6	3486.3	3369.2	3164.2	3083.9	3099.0
5°	3333.1	3412.2	3475.5	3445.0	3380.6	3407.0	3483.4	3313.4	3116.1	3085.3	3110.8
5.5°	3309.4	3364.0	3464.3	3456.1	3374.8	3403.3	3470.4	3257.2	3083.6	3099.0	3077.4
6°	3312.6	3327.1	3437.0	3458.2	3375.0	3398.1	3454.2	3196.5	3070.9	3105.3	2993.9
6.5°	3326.1	3311.6	3397.1	3458.0	3374.6	3391.1	3435.0	3138.7	3076.5	3076.2	2885.0
7°	3314.2	3314.6	3355.6	3457.2	3373.3	3386.6	3410.7	3101.3	3085.0	2999.2	2799.3
7.5°	3270.3	3318.3	3315.3	3451.4	3375.8	3381.7	3382.5	3071.5	3088.1	2898.2	2779.1
8°	3195.9	3314.9	3295.0	3434.9	3380.3	3372.7	3352.4	3050.4	3067.4	2815.0	2828.1
8.5°	3093.9	3288.8	3286.2	3410.2	3380.2	3363.5	3319.7	3044.1	3025.7	2763.7	2924.0
9°	2989.0	3241.2	3287.4	3376.9	3381.3	3356.8	3286.2	3043.6	2956.8	2769.6	3016.6
9.5°	2925.8	3169.6	3285.9	3343.6	3382.0	3347.6	3243.2	3040.6	2882.0	2809.9	3067.1
10°	2898.2	3078.7	3282.3	3306.0	3380.5	3340.0	3209.4	3046.5	2810.6	2890.4	3054.3
10.5°	2895.1	2992.5	3267.1	3277.5	3379.9	3333.5	3176.9	3043.9	2748.5	2970.9	2995.2
11°	2883.5	2916.5	3238.7	3253.6	3378.9	3323.3	3140.1	3031.0	2728.4	3022.9	2944.3
11.5°	2850.2	2873.4	3194.7	3235.3	3374.0	3316.4	3109.2	3008.2	2737.1	3043.0	2930.2
12°	2760.9	2852.9	3136.6	3226.9	3368.2	3306.0	3074.3	2975.7	2770.4	3010.4	2978.7
12.5°	2647.2	2848.7	3071.8	3219.8	3359.7	3294.4	3041.3	2927.3	2821.7	2961.7	3071.6
13°	2528.2	2842.5	2994.3	3213.1	3350.3	3282.2	3013.1	2879.4	2876.2	2922.4	3201.6
13.5°	2442.9	2813.1	2921.2	3201.9	3329.5	3269.7	2990.3	2823.8	2927.4	2908.5	3301.2
14°	2394.6	2753.7	2862.8	3191.1	3315.6	3257.8	2966.4	2763.9	2957.0	2930.6	3337.1
14.5°	2366.6	2667.1	2811.0	3173.8	3294.9	3240.3	2948.8	2722.2	2964.6	2989.8	3319.8
15°	2330.9	2555.9	2779.5	3152.9	3275.5	3226.4	2930.7	2684.9	2949.4	3080.2	3267.7
15.5°	2268.5	2458.9	2763.2	3126.6	3253.2	3212.8	2918.9	2662.4	2912.2	3166.1	3218.5
16°	2173.0	2381.8	2748.9	3097.4	3229.9	3198.8	2905.5	2652.8	2875.5	3231.9	3210.8
16.5°	2062.9	2332.1	2736.0	3064.1	3205.6	3184.8	2894.3	2657.2	2847.0	3259.2	3252.0
17°	1956.0	2302.5	2719.1	3028.6	3182.6	3167.4	2883.3	2671.1	2836.7	3250.8	3314.2
17.5°	1867.2	2276.1	2682.2	2980.9	3156.2	3151.0	2868.8	2687.1	2843.1	3217.0	3376.1
18°	1801.4	2234.2	2625.7	2929.8	3128.3	3135.1	2857.5	2712.0	2871.5	3166.8	3420.9
18.5°	1745.4	2171.7	2550.6	2874.4	3099.9	3117.6	2841.3	2735.1	2915.3	3134.4	3446.0
19°	1687.8	2085.7	2463.8	2811.6	3068.6	3101.6	2828.3	2753.0	2962.5	3130.2	3465.8
19.5°	1617.3	1991.3	2382.7	2755.5	3043.1	3081.8	2812.6	2769.7	3016.0	3154.9	3493.0
20°	1535.3	1897.5	2313.4	2702.4	3014.0	3066.6	2790.7	2778.6	3053.7	3199.2	3549.3
20.5°	1440.4	1820.1	2251.4	2655.9	2990.5	3046.8	2770.1	2772.2	3077.0	3248.1	3640.8
21°	1348.1	1756.7	2208.0	2617.0	2966.8	3027.4	2745.0	2758.1	3087.8	3295.5	3766.6
21.5°	1291.4	1706.0	2177.0	2584.9	2942.2	3002.7	2715.6	2739.4	3078.4	3328.4	3899.7
22°	1234.7	1658.5	2146.2	2556.5	2920.6	2979.6	2688.7	2716.8	3053.3	3350.1	4034.1



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1178.1	1602.5	2112.2	2536.0	2901.8	2959.0	2663.6	2697.0	3016.6	3362.2	4148.2
23°	1121.4	1543.8	2071.0	2516.6	2882.0	2936.5	2635.4	2676.7	2982.0	3378.1	4215.0
23.5°	1066.0	1480.0	2018.6	2500.1	2866.3	2917.2	2606.4	2664.2	2957.0	3409.0	4266.6
24°	1034.2	1407.4	1954.9	2479.4	2847.1	2894.7	2574.5	2652.7	2945.9	3469.6	4326.4
24.5°	1006.5	1337.8	1891.8	2453.2	2828.3	2875.7	2540.8	2645.5	2951.3	3548.3	4392.6
25°	980.0	1271.9	1826.5	2420.9	2810.1	2859.2	2512.4	2642.6	2968.4	3644.7	4480.9
25.5°	952.8	1228.1	1768.3	2380.2	2793.2	2840.4	2484.1	2646.5	2995.4	3755.6	4586.9
26°	926.9	1184.4	1713.1	2336.6	2773.6	2824.5	2455.6	2659.5	3020.5	3836.0	4663.3
26.5°	901.0	1140.6	1662.7	2286.4	2757.9	2808.7	2435.7	2670.8	3042.6	3900.0	4714.4
27°	875.4	1096.9	1619.8	2241.6	2739.5	2796.0	2416.4	2692.2	3066.5	3951.8	4739.8
27.5°	849.2	1053.6	1576.7	2191.1	2722.0	2780.2	2399.8	2713.2	3080.7	3981.9	4747.5
28°	821.9	1026.9	1534.7	2146.8	2701.8	2767.5	2387.6	2728.1	3091.5	4006.1	4755.2
28.5°	796.3	1002.5	1495.9	2112.0	2684.4	2753.0	2374.0	2745.5	3106.2	4041.7	4773.9
29°	770.8	979.3	1453.8	2077.9	2662.6	2741.4	2364.5	2757.0	3123.9	4085.6	4788.2
29.5°	744.6	955.0	1411.0	2047.8	2642.2	2727.2	2356.7	2757.3	3141.9	4138.8	4785.9
30°	719.3	931.8	1372.2	2024.8	2622.2	2713.9	2347.4	2753.2	3174.6	4202.2	4764.7
30.5°	693.5	909.3	1331.8	2000.5	2600.4	2699.4	2340.9	2740.8	3214.3	4247.4	4731.5
31°	668.1	885.6	1292.1	1976.1	2577.6	2686.8	2334.8	2723.6	3255.6	4266.9	4698.2
31.5°	644.0	862.0	1255.4	1954.2	2556.2	2674.1	2329.2	2702.2	3318.4	4274.5	4671.7
32°	621.0	838.9	1220.8	1928.9	2532.4	2661.5	2328.3	2677.0	3371.5	4267.5	4651.8
32.5°	597.3	815.0	1195.4	1899.7	2513.3	2649.5	2327.2	2656.0	3411.6	4261.6	4626.9
33°	575.1	791.7	1169.9	1874.8	2492.9	2639.8	2328.7	2642.8	3448.0	4263.0	4595.2
33.5°	553.9	769.1	1144.5	1845.2	2474.9	2629.5	2328.3	2635.4	3473.4	4265.5	4554.2
34°	532.9	746.0	1119.1	1818.5	2454.2	2620.4	2328.6	2631.9	3486.9	4264.3	4510.8
34.5°	513.4	722.7	1093.9	1794.8	2434.4	2613.2	2328.1	2634.3	3500.0	4255.9	4471.1
35°	495.0	700.5	1076.2	1771.6	2417.1	2605.2	2328.4	2640.9	3508.2	4236.5	4438.8
35.5°	476.0	677.1	1059.6	1749.9	2403.1	2597.6	2326.1	2644.7	3512.3	4207.0	4404.4
36°	459.5	656.2	1045.9	1733.1	2389.8	2589.5	2325.9	2648.9	3524.3	4174.0	4362.1
36.5°	443.0	635.8	1032.1	1715.0	2378.9	2583.7	2324.4	2654.4	3542.6	4142.3	4312.3
37°	426.0	615.3	1017.7	1699.7	2369.5	2578.7	2318.3	2654.2	3559.4	4112.7	4263.0
37.5°	410.6	597.0	1004.5	1686.8	2360.0	2572.7	2311.1	2655.2	3575.7	4085.4	4213.3
38°	395.8	580.8	990.9	1671.1	2353.2	2568.1	2301.7	2657.6	3588.6	4055.9	4176.3
38.5°	381.0	564.3	977.4	1658.5	2347.9	2564.6	2290.5	2660.0	3593.3	4028.2	4144.3
39°	367.5	548.6	964.7	1646.9	2344.3	2560.3	2281.7	2662.8	3595.6	3997.2	4106.0
39.5°	353.7	534.2	949.9	1631.8	2339.5	2555.5	2269.3	2669.3	3592.9	3962.7	4070.2
40°	340.3	520.1	936.4	1620.7	2335.0	2552.5	2261.4	2675.7	3583.2	3934.9	4036.1
40.5°	327.3	507.0	923.1	1608.8	2327.1	2544.3	2253.3	2682.7	3574.0	3911.4	4004.1
41°	314.8	495.0	908.7	1594.9	2318.8	2536.9	2245.6	2691.7	3565.4	3883.2	3974.4
41.5°	303.0	483.0	894.9	1581.8	2310.6	2528.8	2239.6	2698.0	3557.7	3856.5	3952.0
42°	292.3	472.4	882.1	1569.4	2299.5	2521.4	2233.5	2704.5	3554.5	3828.3	3932.8
42.5°	281.3	461.4	867.8	1554.3	2287.7	2515.5	2229.0	2714.3	3551.5	3799.6	3912.3
43°	270.9	451.2	854.5	1541.2	2276.3	2510.6	2226.1	2720.1	3542.0	3770.0	3887.1
43.5°	261.6	441.5	842.1	1528.7	2265.4	2508.0	2225.7	2725.8	3529.5	3742.5	3863.9
44°	252.3	432.0	828.7	1513.2	2255.2	2505.8	2227.8	2737.3	3511.5	3719.0	3842.1
44.5°	243.4	422.5	815.9	1500.5	2246.2	2502.8	2230.1	2745.0	3485.9	3698.3	3828.9



REPORT NUMBER: P973038

CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	235.4	414.1	805.5	1488.6	2237.7	2501.7	2232.2	2752.8	3460.7	3677.3	3817.4
45.5°	227.7	405.4	795.1	1474.0	2230.0	2498.4	2234.4	2763.9	3440.1	3654.8	3806.3
46°	220.4	396.7	786.4	1462.3	2221.9	2495.9	2235.9	2770.7	3420.6	3628.6	3795.9
46.5°	213.9	388.8	779.0	1449.7	2212.6	2491.7	2235.4	2774.0	3404.7	3602.2	3788.2
47°	207.5	380.8	771.4	1436.8	2203.4	2487.0	2234.4	2781.1	3389.0	3576.3	3779.2
47.5°	201.6	372.5	765.7	1425.4	2194.5	2482.6	2232.5	2784.4	3370.8	3552.1	3770.6
48°	196.6	365.3	760.1	1412.7	2184.0	2476.8	2228.0	2786.4	3350.8	3528.0	3763.6
48.5°	191.2	357.8	754.3	1398.5	2175.3	2469.6	2222.2	2793.7	3329.8	3500.1	3755.8
49°	186.5	350.8	749.0	1385.5	2168.0	2463.4	2213.8	2798.4	3308.9	3471.8	3743.1
49.5°	181.9	344.2	744.3	1371.4	2158.7	2456.0	2205.6	2805.3	3291.7	3440.3	3731.2
50°	177.3	337.7	738.1	1356.1	2148.5	2448.6	2194.9	2814.4	3272.2	3407.6	3713.8
50.5°	173.0	331.4	733.3	1342.2	2139.5	2441.5	2182.4	2816.5	3251.3	3377.7	3693.6
51°	169.1	325.7	728.1	1325.9	2126.9	2433.8	2167.9	2818.0	3230.6	3344.5	3669.2
51.5°	165.0	319.6	721.4	1309.5	2114.9	2423.7	2151.0	2818.2	3204.2	3314.1	3641.3
52°	161.2	314.0	716.1	1295.9	2102.9	2409.9	2133.8	2812.1	3175.9	3287.4	3615.7
52.5°	157.6	308.4	709.2	1280.8	2090.3	2396.2	2114.1	2804.7	3145.0	3254.4	3587.5
53°	153.9	302.4	700.8	1267.0	2075.5	2379.1	2092.0	2794.5	3111.3	3221.8	3558.6
53.5°	150.4	296.7	693.7	1254.5	2061.4	2360.6	2069.3	2777.4	3076.4	3188.2	3539.2
54°	146.9	291.1	684.9	1241.2	2044.8	2338.2	2044.7	2757.1	3038.4	3153.5	3514.4
54.5°	143.3	285.3	676.7	1226.1	2027.0	2312.7	2018.2	2735.3	3001.1	3119.3	3483.6
55°	140.0	279.9	668.3	1213.3	2006.6	2282.2	1992.3	2711.8	2964.2	3087.3	3458.9
55.5°	136.6	274.4	659.0	1200.9	1985.9	2250.1	1962.5	2684.1	2926.2	3054.4	3425.9
56°	133.1	268.7	649.2	1188.4	1961.6	2214.7	1931.2	2653.5	2882.6	3018.5	3393.2
56.5°	129.8	263.6	640.9	1177.6	1938.0	2178.9	1899.0	2620.9	2842.4	2983.8	3362.5
57°	126.7	258.5	631.3	1167.4	1912.0	2137.9	1867.2	2583.0	2801.7	2949.6	3322.3
57.5°	123.5	253.4	621.6	1157.3	1886.2	2098.6	1833.7	2542.2	2762.9	2916.7	3285.7
58°	120.4	248.6	612.3	1147.8	1861.2	2058.2	1799.8	2496.1	2722.7	2877.4	3248.6
58.5°	117.2	243.9	602.6	1138.2	1836.0	2020.7	1768.8	2453.2	2681.2	2840.4	3206.4
59°	114.0	238.5	592.2	1128.7	1811.8	1983.3	1734.7	2406.9	2637.3	2799.7	3152.9
59.5°	110.8	233.0	581.6	1119.2	1785.6	1945.1	1702.4	2361.0	2594.3	2762.1	3100.2
60°	107.6	227.1	570.5	1109.6	1758.9	1906.6	1671.4	2315.8	2552.0	2727.0	3047.8
60.5°	104.3	220.9	558.6	1098.0	1732.9	1869.5	1639.7	2272.2	2510.2	2694.3	2988.6
61°	101.1	215.5	547.3	1086.0	1705.5	1830.4	1607.6	2224.7	2469.0	2661.2	2925.2
61.5°	98.0	210.2	534.7	1072.0	1678.7	1793.0	1576.6	2180.6	2425.5	2621.9	2867.9
62°	94.8	205.0	521.2	1056.4	1652.9	1755.7	1548.3	2134.2	2378.1	2577.1	2808.2
62.5°	91.8	200.0	508.4	1039.0	1626.0	1719.7	1518.6	2093.9	2331.3	2530.3	2747.6
63°	88.6	194.5	493.5	1019.1	1599.0	1686.8	1490.4	2049.9	2284.1	2479.1	2688.2
63.5°	85.7	189.0	479.8	997.4	1571.7	1655.4	1461.9	2005.2	2237.6	2419.1	2623.8
64°	82.8	183.8	465.9	977.2	1544.9	1622.3	1434.5	1962.9	2190.0	2357.7	2561.9
64.5°	80.0	178.0	451.4	956.6	1515.4	1587.6	1406.2	1923.5	2143.3	2299.8	2505.1
65°	77.1	171.9	435.9	937.1	1486.6	1553.4	1376.3	1881.6	2095.5	2240.0	2446.4
65.5°	74.4	166.1	422.2	917.4	1454.4	1520.6	1347.2	1841.2	2047.6	2177.4	2388.1
66°	71.4	160.4	407.3	894.9	1423.5	1485.0	1318.1	1801.9	2000.0	2120.4	2330.7
66.5°	68.5	154.5	393.1	872.5	1392.4	1448.4	1286.2	1761.7	1950.4	2063.5	2271.4
67°	65.4	149.1	378.9	850.7	1360.6	1413.5	1254.8	1718.8	1902.0	2004.8	2216.2



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	62.0	144.2	365.7	827.2	1327.4	1381.9	1224.6	1677.0	1851.3	1949.0	2164.5
68°	56.8	139.1	352.4	802.2	1294.2	1350.4	1194.0	1635.4	1798.3	1892.2	2109.4
68.5°	50.9	134.2	339.9	777.6	1259.7	1316.6	1163.5	1597.1	1747.4	1841.6	2053.8
69°	44.3	129.4	327.9	752.1	1226.1	1280.6	1132.9	1554.2	1694.0	1791.3	1995.4
69.5°	40.1	124.6	316.2	727.1	1191.4	1246.3	1102.4	1514.6	1639.6	1739.6	1934.2
70°	39.0	119.8	304.9	703.0	1156.7	1209.2	1071.8	1475.6	1587.6	1691.4	1873.8
70.5°	38.0	115.0	293.9	675.9	1122.1	1172.1	1040.6	1434.9	1535.8	1642.6	1813.1
71°	37.2	110.1	283.2	652.2	1087.4	1135.0	1010.0	1392.6	1482.9	1590.9	1751.7
71.5°	36.4	104.0	273.3	630.8	1052.6	1097.8	977.6	1352.2	1430.8	1538.0	1691.5
72°	35.6	97.2	263.2	610.7	1016.0	1060.6	945.7	1311.5	1382.8	1490.7	1636.6
72.5°	34.8	92.2	253.0	590.6	979.6	1021.6	912.0	1268.2	1334.3	1439.0	1578.7
73°	34.1	88.8	242.0	570.5	942.9	985.5	881.0	1221.4	1287.0	1384.7	1519.8
73.5°	33.4	85.0	231.5	550.9	905.5	949.4	851.7	1174.5	1243.9	1336.0	1466.3
74°	32.7	81.3	221.8	532.7	869.8	910.9	820.9	1127.6	1200.3	1282.6	1409.2
74.5°	32.1	78.1	213.6	515.3	834.2	872.7	789.0	1080.7	1156.7	1232.8	1355.1
75°	31.3	75.0	205.0	499.0	799.4	836.7	758.4	1033.8	1113.1	1183.0	1300.2
75.5°	30.7	72.0	196.3	484.0	767.0	800.3	726.9	983.3	1069.4	1133.1	1244.8
76°	30.0	69.2	188.2	470.5	735.4	764.8	695.9	933.4	1025.6	1083.3	1189.4
76.5°	29.3	66.7	179.9	455.2	707.0	731.1	666.0	889.4	981.4	1033.6	1134.1
77°	28.6	64.2	172.4	440.0	677.3	697.1	634.6	844.7	935.1	985.8	1078.7
77.5°	27.9	61.8	166.1	425.3	649.4	660.6	603.8	799.3	888.5	939.5	1023.4
78°	27.2	59.3	159.5	408.3	617.9	623.6	573.5	757.5	845.4	895.1	972.9
78.5°	26.5	56.9	154.1	392.4	584.7	587.1	540.8	716.3	800.9	848.2	919.2
79°	25.7	54.7	148.4	375.8	549.9	552.2	507.7	675.6	758.6	803.9	867.3
79.5°	24.9	52.4	142.2	359.3	514.4	518.1	475.7	638.0	719.6	762.8	815.6
80°	24.1	50.3	134.8	342.1	478.9	483.9	443.9	600.7	680.1	718.6	765.4
80.5°	23.3	48.2	127.4	324.9	446.5	450.9	413.3	563.5	640.6	675.6	715.1
81°	22.5	46.2	120.0	307.4	416.0	418.4	386.5	528.7	604.0	635.5	670.5
81.5°	21.8	44.2	112.7	289.6	387.6	385.8	358.4	495.0	567.0	593.2	623.2
82°	21.1	42.3	105.3	272.0	358.8	352.8	329.7	460.5	531.6	553.3	576.9
82.5°	20.4	40.3	97.7	252.6	332.4	322.4	301.3	428.0	496.2	515.0	535.1
83°	19.7	38.3	90.2	234.0	306.1	292.9	276.1	396.6	461.7	478.4	494.2
83.5°	19.0	36.3	82.8	216.2	280.0	264.0	253.0	366.8	427.3	441.5	456.4
84°	18.3	34.5	75.8	198.1	254.2	236.5	231.3	337.8	395.1	409.9	423.1
84.5°	17.7	32.7	69.8	180.4	229.2	209.6	209.5	309.4	362.0	377.3	389.3
85°	17.1	31.0	64.2	163.8	205.6	184.4	190.8	283.2	332.7	348.9	359.4
85.5°	16.4	29.4	58.9	150.0	183.0	165.1	172.1	257.8	305.6	322.3	332.0
86°	15.9	27.9	54.3	136.2	165.8	145.8	155.6	233.6	279.6	297.4	306.3
86.5°	15.3	26.6	50.2	122.5	148.6	126.5	142.6	212.0	256.4	274.9	282.1
87°	14.8	25.3	46.6	108.7	131.4	107.2	129.6	194.0	236.9	255.6	261.7
87.5°	14.2	24.0	43.5	95.0	114.2	88.0	116.6	176.0	218.2	236.8	241.8
88°	13.7	22.9	40.7	85.7	97.1	75.4	103.8	161.3	201.7	219.9	223.9
88.5°	13.3	21.9	38.3	77.2	85.4	64.4	94.9	148.9	187.6	204.8	208.0
89°	12.8	20.9	36.2	70.0	75.8	55.7	86.8	140.7	175.1	191.5	193.2
89.5°	12.4	20.0	34.4	63.8	67.7	48.6	80.4	132.6	164.3	179.1	180.3



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	12.0	19.2	32.8	58.8	61.3	43.4	75.6	124.4	154.0	168.6	169.5
90.5°	11.6	18.5	31.5	54.7	56.5	39.4	71.8	116.3	144.8	158.9	159.6
91°	11.2	17.8	30.4	51.2	53.0	36.5	68.8	108.1	137.4	149.7	150.7
91.5°	10.8	17.3	29.5	48.4	50.6	34.4	66.5	103.7	132.7	141.3	142.1
92°	10.4	16.8	28.8	46.1	49.0	33.2	64.7	100.2	128.1	134.7	134.3
92.5°	10.2	16.4	28.3	44.3	47.8	32.4	63.3	97.1	123.4	130.0	129.6
93°	10.0	16.0	28.0	43.0	47.1	32.0	62.1	94.6	118.7	125.3	125.0
93.5°	9.8	15.7	27.7	42.2	46.7	31.9	61.1	92.3	114.2	120.6	120.3
94°	9.6	15.4	27.6	41.7	46.6	32.0	60.2	90.4	111.1	116.0	115.7
94.5°	9.4	15.0	27.4	41.4	46.6	32.2	59.6	88.6	108.4	112.7	112.7
95°	9.2	14.7	27.3	41.2	46.6	32.5	59.1	87.0	105.8	109.7	110.3
95.5°	9.0	14.5	27.2	41.1	46.7	32.9	58.8	85.5	103.4	107.0	108.0
96°	8.9	14.3	27.1	40.9	46.7	33.4	58.8	84.2	101.3	104.6	106.1
96.5°	8.7	14.0	26.9	40.6	46.5	34.0	58.9	83.0	99.4	102.5	104.4
97°	8.6	13.8	26.6	40.3	46.3	34.5	59.1	82.0	97.5	100.5	103.0
97.5°	8.5	13.6	26.3	39.9	46.0	35.1	59.3	81.3	95.9	98.9	101.8
98°	8.3	13.4	25.9	39.5	45.7	35.8	59.5	80.7	94.5	97.3	100.6
98.5°	8.2	13.2	25.4	39.0	45.4	36.4	59.8	80.3	93.2	96.0	99.6
99°	8.1	13.0	24.8	38.4	45.1	37.1	60.2	79.9	92.1	94.9	98.8
99.5°	7.9	12.8	24.2	37.9	44.8	37.8	60.6	79.7	91.2	93.8	98.0
100°	7.8	12.6	23.6	37.3	44.7	38.5	61.1	79.5	90.4	92.8	97.3
100.5°	7.7	12.4	23.0	36.7	44.6	39.3	61.6	79.5	89.9	92.0	96.4
101°	7.5	12.2	22.4	36.2	44.6	40.0	62.1	79.4	89.5	91.6	95.6
101.5°	7.3	12.0	21.9	35.7	44.6	40.7	62.5	79.4	89.1	91.4	95.5
102°	7.1	11.9	21.4	35.2	44.8	41.5	63.1	79.4	88.7	91.2	95.7
102.5°	6.9	11.7	21.0	34.8	45.0	42.2	63.7	79.4	88.3	91.0	95.5
103°	6.7	11.6	20.6	34.5	45.3	42.9	64.3	79.4	87.9	90.7	95.4
103.5°	6.5	11.5	20.3	34.2	45.7	43.6	65.0	79.5	87.6	90.6	95.2
104°	6.4	11.4	20.0	33.9	46.1	44.4	65.6	79.6	87.3	90.4	95.1
104.5°	6.3	11.3	19.8	33.7	46.6	45.1	66.3	79.7	86.9	90.3	95.0
105°	6.2	11.2	19.6	33.5	47.0	45.9	66.9	79.8	86.6	90.2	95.0
105.5°	6.1	11.1	19.5	33.4	47.5	46.7	67.5	79.9	86.3	90.1	94.9
106°	6.1	11.0	19.4	33.3	48.0	47.4	68.1	80.0	86.0	89.9	94.9
106.5°	6.0	10.9	19.3	33.2	48.5	48.1	68.7	80.0	85.7	89.8	94.8
107°	6.0	10.8	19.3	33.2	49.0	48.8	69.3	80.1	85.4	89.6	94.7
107.5°	5.9	10.7	19.2	33.2	49.5	49.4	69.8	80.2	85.1	89.3	94.5
108°	5.8	10.6	19.2	33.2	49.9	50.0	70.4	80.4	84.8	89.0	94.2
108.5°	5.8	10.5	19.2	33.2	50.3	50.6	70.9	80.7	84.6	88.7	93.9
109°	5.7	10.4	19.3	33.2	50.7	51.2	71.4	81.0	84.5	88.5	93.5
109.5°	5.6	10.3	19.3	33.3	51.0	51.7	71.9	81.4	84.4	88.3	93.2
110°	5.5	10.3	19.3	33.3	51.3	52.2	72.5	81.8	84.3	88.2	92.9
110.5°	5.5	10.2	19.3	33.4	51.7	52.7	73.0	82.2	84.3	88.1	92.6
111°	5.4	10.2	19.3	33.4	52.1	53.2	73.5	82.5	84.3	88.0	92.4
111.5°	5.3	10.2	19.3	33.5	52.5	53.8	74.1	82.9	84.2	88.0	92.1
112°	5.3	10.1	19.3	33.5	52.8	54.4	74.6	83.2	84.2	87.9	91.8



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.3	10.1	19.3	33.5	53.2	54.9	75.1	83.5	84.2	87.9	91.6
113°	5.3	10.1	19.3	33.5	53.6	55.4	75.6	83.8	84.2	87.8	91.4
113.5°	5.3	10.0	19.3	33.5	53.9	55.8	76.0	84.1	84.1	87.8	91.3
114°	5.3	10.0	19.3	33.4	54.2	56.3	76.3	84.4	84.2	87.7	91.3
114.5°	5.3	10.0	19.2	33.4	54.5	56.7	76.7	84.7	84.1	87.6	91.3
115°	5.3	10.0	19.2	33.4	54.8	57.1	77.0	84.9	84.1	87.5	91.2
115.5°	5.3	10.0	19.1	33.3	55.0	57.4	77.4	85.2	84.1	87.4	91.1
116°	5.4	10.0	19.1	33.3	55.2	57.6	77.6	85.4	84.0	87.3	91.0
116.5°	5.4	10.0	19.0	33.3	55.4	57.8	77.8	85.5	83.9	87.3	90.9
117°	5.4	10.0	19.0	33.3	55.6	57.9	78.0	85.6	83.9	87.2	90.8
117.5°	5.4	10.0	18.9	33.3	55.9	58.1	78.1	85.6	83.9	87.2	90.7
118°	5.5	10.0	18.8	33.2	56.1	58.2	78.2	85.7	83.9	87.1	90.6
118.5°	5.5	10.1	18.8	33.2	56.3	58.3	78.2	85.8	83.9	87.1	90.5
119°	5.6	10.1	18.8	33.2	56.3	58.3	78.1	85.8	83.9	87.1	90.4
119.5°	5.6	10.1	18.7	33.2	56.3	58.2	77.9	85.9	83.9	87.0	90.3
120°	5.7	10.2	18.7	33.2	56.3	58.1	77.8	85.9	83.8	87.1	90.2
120.5°	5.8	10.2	18.7	33.2	56.2	58.0	77.6	85.9	83.9	87.1	90.2
121°	5.9	10.3	18.7	33.2	56.2	57.8	77.4	85.9	83.9	87.1	90.1
121.5°	5.9	10.3	18.7	33.2	56.1	57.5	77.1	85.9	83.9	87.2	90.1
122°	6.0	10.4	18.7	33.1	56.1	57.1	76.7	85.9	83.9	87.2	90.1
122.5°	6.1	10.4	18.7	33.1	56.0	56.8	76.3	85.8	84.0	87.3	90.1
123°	6.2	10.5	18.7	33.1	55.9	56.4	75.9	85.9	84.0	87.4	90.1
123.5°	6.3	10.5	18.8	33.1	55.8	56.0	75.5	85.9	84.1	87.5	90.1
124°	6.3	10.6	18.8	33.1	55.7	55.6	75.1	85.9	84.2	87.6	90.1
124.5°	6.4	10.6	18.8	33.1	55.6	55.3	74.7	86.0	84.3	87.7	90.1
125°	6.5	10.7	18.9	33.2	55.5	54.9	74.3	86.1	84.4	87.8	90.1
125.5°	6.5	10.7	19.0	33.3	55.5	54.6	73.9	86.3	84.6	87.9	90.1
126°	6.6	10.8	19.0	33.4	55.4	54.4	73.5	86.4	84.8	88.1	90.1
126.5°	6.7	10.9	19.1	33.5	55.5	54.1	73.1	86.6	85.0	88.2	90.1
127°	6.7	10.9	19.2	33.6	55.5	53.9	72.8	86.8	85.2	88.3	90.1
127.5°	6.8	11.0	19.2	33.7	55.5	53.7	72.5	86.9	85.5	88.4	90.1
128°	6.9	11.1	19.3	33.8	55.6	53.6	72.2	87.1	85.7	88.6	90.1
128.5°	6.9	11.1	19.4	34.0	55.6	53.5	72.0	87.3	86.0	88.7	90.1
129°	7.0	11.2	19.4	34.1	55.7	53.4	71.7	87.4	86.2	88.8	90.1
129.5°	7.0	11.2	19.5	34.3	55.7	53.3	71.5	87.6	86.5	88.9	90.1
130°	7.1	11.3	19.6	34.5	55.8	53.2	71.2	87.7	86.7	88.9	90.1
130.5°	7.1	11.4	19.6	34.7	55.8	53.2	71.0	87.8	87.0	88.9	90.0
131°	7.2	11.4	19.7	34.9	55.9	53.1	70.8	87.8	87.2	88.9	89.9
131.5°	7.2	11.5	19.8	35.1	55.9	53.0	70.5	87.8	87.5	88.8	89.8
132°	7.2	11.5	19.8	35.3	55.9	53.0	70.2	87.8	87.6	88.8	89.6
132.5°	7.3	11.6	19.9	35.4	55.9	52.9	69.9	87.7	87.8	88.6	89.3
133°	7.3	11.7	20.0	35.6	55.9	52.8	69.6	87.5	87.9	88.5	89.0
133.5°	7.3	11.7	20.1	35.8	55.8	52.6	69.3	87.3	88.0	88.3	88.7
134°	7.4	11.8	20.2	36.0	55.7	52.5	68.8	87.0	88.0	88.1	88.3
134.5°	7.4	11.9	20.3	36.2	55.6	52.3	68.4	86.7	88.0	87.9	87.8



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 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	7.4	11.9	20.4	36.3	55.4	52.1	67.9	86.3	87.9	87.6	87.4
135.5°	7.5	12.0	20.5	36.5	55.2	51.9	67.4	85.9	87.7	87.3	86.9
136°	7.5	12.0	20.5	36.6	54.9	51.6	66.9	85.3	87.5	86.9	86.2
136.5°	7.5	12.1	20.6	36.7	54.6	51.3	66.3	84.8	87.2	86.5	85.6
137°	7.5	12.1	20.7	36.8	54.3	51.0	65.7	84.2	86.8	86.1	84.9
137.5°	7.5	12.2	20.7	36.9	53.8	50.6	65.1	83.5	86.4	85.6	84.2
138°	7.6	12.2	20.7	36.9	53.4	50.3	64.4	82.7	85.9	85.0	83.5
138.5°	7.6	12.2	20.8	36.9	53.0	49.8	63.7	81.9	85.3	84.4	82.8
139°	7.6	12.2	20.8	36.9	52.5	49.4	63.0	81.0	84.6	83.8	82.1
139.5°	7.6	12.3	20.8	36.8	51.9	48.9	62.2	80.1	83.9	83.0	81.4
140°	7.6	12.3	20.8	36.8	51.3	48.5	61.4	79.1	83.0	82.3	80.7
140.5°	7.6	12.2	20.7	36.7	50.6	47.9	60.5	78.0	82.2	81.5	80.0
141°	7.6	12.2	20.7	36.5	49.9	47.3	59.7	76.9	81.2	80.5	79.4
141.5°	7.6	12.2	20.6	36.3	49.1	46.7	58.7	75.8	80.2	79.5	78.7
142°	7.5	12.2	20.6	36.1	48.4	46.1	57.7	74.5	79.1	78.6	78.0
142.5°	7.5	12.1	20.5	35.9	47.5	45.4	56.7	73.3	78.0	77.4	77.3
143°	7.5	12.1	20.4	35.5	46.7	44.7	55.6	71.9	76.7	76.3	76.7
143.5°	7.5	12.0	20.3	35.2	45.8	44.0	54.5	70.5	75.5	75.2	76.0
144°	7.4	11.9	20.1	34.8	44.9	43.2	53.4	69.1	74.1	74.0	75.2
144.5°	7.4	11.9	20.0	34.4	43.9	42.4	52.2	67.6	72.7	72.8	74.4
145°	7.4	11.8	19.8	34.0	42.9	41.6	51.0	66.1	71.3	71.6	73.6
145.5°	7.3	11.7	19.6	33.5	41.9	40.7	49.8	64.6	69.8	70.4	72.8
146°	7.2	11.6	19.5	33.0	40.9	39.8	48.5	62.9	68.3	69.2	71.8
146.5°	7.2	11.4	19.3	32.4	39.8	38.9	47.3	61.3	66.8	68.0	70.8
147°	7.1	11.3	19.0	31.8	38.8	38.0	45.9	59.6	65.2	66.8	69.7
147.5°	7.0	11.2	18.8	31.2	37.7	37.0	44.6	58.0	63.6	65.6	68.6
148°	6.9	11.0	18.6	30.5	36.7	36.1	43.3	56.2	62.1	64.4	67.5
148.5°	6.8	10.9	18.3	29.8	35.5	35.1	42.0	54.5	60.5	63.2	66.4
149°	6.7	10.7	18.1	29.1	34.4	34.1	40.6	52.7	58.9	62.1	65.2
149.5°	6.5	10.6	17.8	28.3	33.3	33.1	39.2	50.9	57.4	60.8	63.9
150°	6.4	10.4	17.5	27.5	32.3	32.1	37.8	49.1	55.8	59.4	62.7
150.5°	6.3	10.2	17.1	26.7	31.1	31.1	36.4	47.3	54.0	58.1	61.5
151°	6.2	10.0	16.8	25.9	30.0	30.1	35.1	45.6	52.3	56.8	60.2
151.5°	6.0	9.8	16.4	25.1	28.9	29.1	33.7	43.8	50.6	55.4	58.9
152°	5.9	9.6	16.1	24.3	27.9	28.1	32.4	42.1	48.9	54.0	57.6
152.5°	5.8	9.4	15.7	23.4	26.8	27.1	31.2	40.4	47.2	52.6	56.3
153°	5.6	9.2	15.3	22.6	25.7	26.1	29.8	38.7	45.4	51.2	54.9
153.5°	5.5	8.9	14.9	21.8	24.7	25.1	28.5	37.0	43.6	49.8	53.5
154°	5.3	8.7	14.5	20.9	23.7	24.2	27.3	35.3	41.8	48.3	52.0
154.5°	5.2	8.4	14.1	20.0	22.7	23.2	26.1	33.7	40.0	46.8	50.6
155°	5.0	8.1	13.6	19.2	21.7	22.3	24.8	32.1	38.2	45.3	49.1
155.5°	4.8	7.8	13.1	18.4	20.8	21.3	23.7	30.5	36.3	43.6	47.6
156°	4.6	7.6	12.6	17.6	19.8	20.4	22.5	28.9	34.6	41.6	46.2
156.5°	4.5	7.3	12.0	16.7	18.9	19.5	21.4	27.4	32.8	39.6	44.8
157°	4.4	6.9	11.5	15.9	17.9	18.7	20.3	25.9	31.0	37.6	43.3



REPORT NUMBER: P973038
 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	4.3	6.6	10.9	15.2	17.1	17.8	19.2	24.5	29.1	35.6	41.9
158°	4.2	6.3	10.4	14.4	16.2	17.0	18.2	23.0	27.3	33.6	40.5
158.5°	4.2	6.0	9.9	13.7	15.4	16.2	17.2	21.7	25.5	31.6	38.9
159°	4.1	5.7	9.4	12.9	14.6	15.4	16.2	20.3	23.7	29.5	36.9
159.5°	4.1	5.4	8.8	12.2	13.8	14.6	15.3	19.1	22.2	27.6	34.6
160°	4.1	5.0	8.3	11.5	13.1	13.8	14.4	17.8	20.8	25.6	32.3
160.5°	4.1	4.8	7.8	10.8	12.3	13.1	13.5	16.6	19.5	23.8	30.1
161°	4.1	4.6	7.3	10.1	11.6	12.4	12.8	15.5	18.2	21.9	27.9
161.5°	4.0	4.5	6.8	9.4	10.8	11.6	12.0	14.4	16.9	20.0	25.6
162°	4.0	4.4	6.4	8.8	10.1	10.9	11.2	13.5	15.7	18.1	23.4
162.5°	4.0	4.3	5.9	8.2	9.5	10.2	10.5	12.5	14.6	16.2	21.4
163°	4.0	4.2	5.5	7.6	8.9	9.5	9.7	11.5	13.6	14.5	19.4
163.5°	3.9	4.1	5.2	7.1	8.3	8.9	9.1	10.6	12.6	13.5	17.5
164°	3.9	3.9	4.9	6.5	7.7	8.3	8.5	9.6	11.5	12.5	15.8
164.5°	3.9	3.8	4.6	6.1	7.2	7.8	7.9	8.9	10.5	11.5	14.1
165°	3.9	3.8	4.4	5.6	6.7	7.3	7.4	8.2	9.5	10.5	12.4
165.5°	3.9	3.8	4.2	5.2	6.2	6.8	6.9	7.5	8.7	9.5	10.7
166°	3.9	3.8	4.0	4.9	5.7	6.3	6.4	6.9	8.0	8.8	9.0
166.5°	3.9	3.9	3.9	4.6	5.4	5.9	6.0	6.4	7.3	8.0	8.4
167°	3.9	3.9	3.9	4.3	5.0	5.5	5.6	5.9	6.7	7.4	7.9
167.5°	3.9	3.9	3.9	4.1	4.6	5.1	5.2	5.4	6.2	6.8	7.4
168°	3.9	3.9	3.9	3.9	4.4	4.8	4.9	5.0	5.6	6.2	7.0
168.5°	3.9	3.9	3.9	3.9	4.1	4.4	4.5	4.6	5.2	5.9	6.6
169°	3.9	3.8	3.8	3.9	3.9	4.1	4.2	4.2	4.8	5.6	6.3
169.5°	3.9	3.8	3.8	3.8	3.9	3.9	4.0	3.9	4.6	5.4	6.0
170°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	4.4	5.1	5.7
170.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.9	4.3	5.0	5.4
171°	3.8	3.8	3.8	3.8	3.8	3.9	3.9	3.9	4.3	4.8	5.2
171.5°	3.8	3.8	3.8	3.8	3.8	3.9	3.9	3.9	4.2	4.7	5.0
172°	3.8	3.7	3.8	3.8	3.8	3.9	3.9	3.9	4.1	4.5	4.8
172.5°	3.7	3.7	3.7	3.8	3.8	3.9	3.9	4.0	4.1	4.4	4.7
173°	3.7	3.7	3.7	3.8	3.8	3.9	3.9	4.0	4.1	4.3	4.6
173.5°	3.7	3.7	3.7	3.7	3.8	3.9	3.9	4.0	4.0	4.3	4.5
174°	3.7	3.6	3.7	3.7	3.8	3.9	3.9	4.0	4.0	4.2	4.4
174.5°	3.7	3.6	3.7	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.3
175°	3.6	3.6	3.7	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.3
175.5°	3.6	3.6	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.2
176°	3.6	3.6	3.6	3.7	3.8	3.8	3.9	4.0	4.1	4.1	4.2
176.5°	3.5	3.5	3.6	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.2
177°	3.5	3.5	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.2
177.5°	3.5	3.5	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.2
178°	3.5	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.2
178.5°	3.4	3.4	3.5	3.5	3.6	3.7	3.8	4.0	4.1	4.2	4.2
179°	3.4	3.4	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.2	4.3
179.5°	3.4	3.4	3.4	3.5	3.6	3.7	3.9	4.0	4.1	4.2	4.3



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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: P973038
 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	3419.9	3419.9	3419.9	3419.9
0.5°	3476.5	3483.4	3484.4	3473.5
1°	3507.9	3507.7	3503.9	3439.2
1.5°	3462.7	3438.1	3421.9	3316.3
2°	3356.7	3310.9	3284.4	3161.6
2.5°	3214.0	3168.3	3143.9	3071.2
3°	3119.5	3096.5	3092.0	3068.8
3.5°	3089.3	3095.0	3106.5	3091.9
4°	3106.2	3120.6	3117.5	3059.8
4.5°	3116.8	3092.4	3052.6	2937.1
5°	3068.8	2986.6	2916.9	2795.3
5.5°	2955.4	2843.9	2795.5	2746.1
6°	2831.8	2778.6	2784.8	2816.6
6.5°	2780.7	2817.5	2882.9	2950.7
7°	2813.2	2931.7	3012.4	3047.3
7.5°	2916.4	3044.4	3081.6	3034.8
8°	3023.6	3077.2	3048.1	2943.6
8.5°	3082.2	3022.2	2960.0	2892.3
9°	3052.4	2949.2	2932.1	2950.9
9.5°	2985.2	2939.5	3009.9	3115.5
10°	2937.3	3026.7	3181.7	3293.2
10.5°	2965.5	3184.8	3345.8	3373.1
11°	3065.4	3338.4	3403.4	3335.9
11.5°	3219.8	3400.3	3362.2	3252.3
12°	3340.0	3362.7	3282.4	3235.2
12.5°	3382.3	3289.6	3271.4	3317.6
13°	3353.9	3262.9	3350.1	3432.3
13.5°	3285.5	3319.0	3459.5	3490.3
14°	3248.0	3412.7	3518.0	3498.7
14.5°	3284.8	3487.1	3533.8	3506.2
15°	3361.6	3524.3	3550.4	3553.8
15.5°	3435.2	3539.6	3605.5	3681.7
16°	3481.5	3571.9	3719.8	3855.4
16.5°	3507.6	3652.2	3891.1	4043.7
17°	3527.7	3787.3	4075.1	4206.1
17.5°	3567.1	3965.2	4253.2	4330.5
18°	3652.2	4141.5	4385.4	4426.6
18.5°	3783.0	4290.3	4481.3	4524.4
19°	3942.7	4403.1	4575.6	4648.8
19.5°	4106.7	4491.3	4697.3	4806.1
20°	4232.9	4577.2	4848.5	4968.8
20.5°	4334.6	4697.6	4998.9	5104.0
21°	4411.4	4840.7	5124.3	5207.4
21.5°	4488.4	4976.7	5225.0	5285.7
22°	4588.9	5078.0	5300.4	5344.2



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	4707.9	5150.9	5357.7	5373.0
23°	4824.4	5214.0	5390.3	5383.7
23.5°	4921.5	5261.6	5394.1	5377.7
24°	4986.4	5295.2	5380.9	5359.3
24.5°	5020.2	5293.4	5360.4	5341.4
25°	5054.7	5276.0	5348.1	5314.1
25.5°	5094.0	5249.8	5338.3	5285.3
26°	5107.5	5235.9	5316.8	5252.4
26.5°	5106.3	5231.7	5283.2	5230.2
27°	5089.8	5216.6	5244.1	5213.3
27.5°	5058.8	5181.2	5225.8	5175.3
28°	5039.0	5128.7	5205.4	5129.8
28.5°	5025.2	5090.5	5174.6	5077.4
29°	5006.9	5079.4	5125.8	5028.0
29.5°	4980.7	5066.7	5065.9	4977.0
30°	4939.0	5024.2	5010.9	4937.2
30.5°	4892.3	4954.0	4968.3	4895.2
31°	4860.7	4896.8	4937.4	4849.8
31.5°	4836.8	4858.5	4903.6	4800.1
32°	4809.7	4834.9	4849.1	4746.5
32.5°	4760.2	4801.8	4779.9	4704.5
33°	4695.9	4750.3	4721.3	4656.6
33.5°	4647.3	4687.2	4672.6	4589.1
34°	4610.7	4630.4	4622.3	4508.3
34.5°	4573.9	4582.5	4553.3	4442.8
35°	4525.1	4545.7	4491.2	4398.9
35.5°	4465.5	4505.1	4440.4	4372.4
36°	4409.8	4456.6	4404.9	4358.8
36.5°	4364.9	4405.4	4389.4	4362.1
37°	4326.4	4367.3	4383.3	4378.4
37.5°	4296.3	4339.2	4391.5	4397.6
38°	4264.0	4328.3	4407.5	4426.7
38.5°	4229.5	4327.7	4433.7	4456.2
39°	4192.3	4331.5	4465.7	4491.1
39.5°	4158.7	4348.7	4502.1	4525.3
40°	4137.5	4372.0	4541.5	4559.3
40.5°	4123.9	4401.7	4582.9	4591.8
41°	4119.0	4433.5	4620.7	4619.6
41.5°	4118.2	4464.5	4645.9	4646.9
42°	4128.7	4489.0	4668.3	4662.3
42.5°	4141.1	4511.4	4691.7	4688.6
43°	4148.0	4528.1	4720.2	4717.3
43.5°	4159.5	4542.2	4742.4	4739.1
44°	4171.6	4560.0	4757.1	4754.6
44.5°	4180.9	4571.2	4778.7	4751.0



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	4191.4	4579.8	4783.6	4744.3
45.5°	4200.7	4588.6	4774.3	4715.9
46°	4208.0	4590.9	4757.5	4686.6
46.5°	4209.5	4588.6	4718.9	4635.1
47°	4212.5	4572.0	4680.6	4591.2
47.5°	4209.5	4552.1	4637.6	4541.9
48°	4202.0	4513.3	4595.6	4509.0
48.5°	4194.5	4474.8	4556.4	4468.7
49°	4179.6	4432.5	4506.0	4415.7
49.5°	4162.7	4396.5	4453.7	4354.5
50°	4138.8	4351.3	4389.7	4293.8
50.5°	4118.1	4310.1	4329.0	4245.9
51°	4079.5	4262.6	4269.9	4205.3
51.5°	4041.2	4205.1	4222.0	4170.2
52°	3998.4	4148.9	4175.0	4134.1
52.5°	3958.9	4097.9	4136.3	4101.7
53°	3921.0	4052.3	4095.7	4057.2
53.5°	3880.4	4009.9	4047.6	4012.4
54°	3839.2	3963.1	4004.2	3972.0
54.5°	3791.3	3924.2	3960.2	3926.6
55°	3744.2	3881.2	3913.6	3868.6
55.5°	3700.5	3839.0	3849.2	3798.0
56°	3663.0	3783.4	3777.3	3724.7
56.5°	3621.8	3722.8	3699.8	3642.7
57°	3569.9	3653.7	3628.7	3577.0
57.5°	3511.7	3592.5	3561.1	3516.6
58°	3454.6	3518.3	3495.2	3451.3
58.5°	3400.0	3452.9	3429.4	3388.3
59°	3340.1	3384.8	3361.5	3316.7
59.5°	3272.5	3313.1	3287.4	3235.4
60°	3204.4	3239.1	3208.0	3140.8
60.5°	3135.9	3168.6	3124.6	3049.4
61°	3067.2	3087.4	3033.8	2958.9
61.5°	3001.7	3008.6	2948.3	2874.4
62°	2927.2	2925.4	2864.3	2802.0
62.5°	2856.2	2847.8	2788.1	2737.9
63°	2786.4	2773.3	2729.6	2691.9
63.5°	2714.4	2708.4	2676.2	2648.7
64°	2644.7	2642.2	2626.0	2601.3
64.5°	2581.8	2589.1	2573.7	2549.9
65°	2522.2	2536.8	2520.8	2499.0
65.5°	2463.0	2478.9	2460.4	2429.6
66°	2406.2	2417.1	2396.2	2351.2
66.5°	2349.7	2355.3	2329.5	2275.9
67°	2289.3	2287.6	2256.3	2205.7



REPORT NUMBER: P973038
 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	2230.6	2216.5	2184.8	2140.7
68°	2168.0	2146.4	2126.4	2082.4
68.5°	2100.1	2084.4	2070.9	2025.5
69°	2032.8	2021.9	2014.9	1972.8
69.5°	1970.7	1963.7	1959.4	1914.2
70°	1909.1	1903.5	1899.1	1849.0
70.5°	1848.8	1844.3	1836.5	1785.0
71°	1787.8	1785.4	1774.9	1722.8
71.5°	1728.4	1722.8	1711.4	1660.8
72°	1666.7	1662.6	1648.9	1605.0
72.5°	1607.9	1604.6	1589.9	1549.4
73°	1550.2	1541.4	1529.5	1488.5
73.5°	1493.4	1478.3	1467.7	1427.0
74°	1434.3	1420.1	1404.6	1366.8
74.5°	1372.2	1362.3	1340.8	1297.2
75°	1314.4	1296.8	1278.8	1229.5
75.5°	1255.0	1236.1	1216.8	1163.0
76°	1195.6	1175.3	1154.8	1096.4
76.5°	1136.3	1114.5	1092.8	1033.0
77°	1076.9	1053.8	1030.8	973.1
77.5°	1017.7	993.0	967.3	913.5
78°	963.5	935.0	908.3	857.0
78.5°	908.5	878.2	849.8	804.3
79°	852.2	822.0	794.8	753.5
79.5°	797.0	764.5	742.8	701.7
80°	741.4	712.9	695.5	658.2
80.5°	690.1	664.6	648.9	615.5
81°	641.9	620.4	607.3	575.4
81.5°	594.3	580.0	570.3	540.2
82°	551.8	541.5	533.6	506.0
82.5°	510.7	503.6	496.3	471.8
83°	472.8	470.7	463.7	437.6
83.5°	438.5	436.9	430.9	403.4
84°	407.0	403.0	397.8	369.2
84.5°	377.7	372.6	367.4	340.6
85°	350.4	345.1	338.7	313.3
85.5°	324.2	317.1	312.1	289.9
86°	300.1	292.7	288.7	268.4
86.5°	277.9	270.6	266.2	249.0
87°	257.2	249.9	246.5	231.6
87.5°	237.0	232.2	230.4	216.7
88°	220.0	216.0	215.3	202.8
88.5°	204.0	201.3	201.6	191.2
89°	190.6	189.3	190.2	180.7
89.5°	178.1	178.0	179.4	171.2



REPORT NUMBER: P973038
 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	167.2	168.1	169.8	163.2
90.5°	157.7	160.0	162.2	156.0
91°	150.0	152.8	155.2	149.7
91.5°	142.7	146.5	149.0	144.5
92°	135.8	140.8	144.2	139.8
92.5°	131.8	135.0	138.8	134.4
93°	127.8	129.5	133.4	129.4
93.5°	123.8	126.9	129.1	125.9
94°	119.8	124.3	127.1	123.4
94.5°	115.9	121.7	125.1	121.3
95°	113.7	119.1	123.1	119.8
95.5°	112.0	117.3	121.1	118.2
96°	110.2	115.6	119.1	116.4
96.5°	108.7	114.4	117.8	115.3
97°	107.5	113.2	116.8	114.5
97.5°	106.4	112.3	115.9	113.9
98°	105.5	111.6	115.1	113.1
98.5°	104.8	110.8	114.3	112.3
99°	104.0	110.1	113.6	111.7
99.5°	103.2	109.4	112.9	111.0
100°	102.7	108.7	112.0	110.1
100.5°	102.0	108.0	111.3	109.2
101°	100.8	107.3	110.5	108.4
101.5°	99.7	105.6	109.1	106.4
102°	99.5	104.2	107.0	104.8
102.5°	99.9	104.0	105.8	104.0
103°	99.7	104.4	105.7	104.3
103.5°	99.4	104.1	106.0	104.2
104°	99.0	103.5	105.6	103.8
104.5°	98.7	103.1	105.0	103.1
105°	98.5	102.6	104.3	102.5
105.5°	98.2	102.2	103.7	101.9
106°	98.0	101.8	103.1	101.3
106.5°	97.9	101.4	102.7	100.8
107°	97.7	101.2	102.3	100.4
107.5°	97.5	100.9	101.9	100.0
108°	97.3	100.5	101.5	99.5
108.5°	96.9	100.1	101.1	98.9
109°	96.4	99.6	100.4	98.2
109.5°	95.9	99.0	99.7	97.4
110°	95.4	98.3	99.0	96.5
110.5°	94.9	97.7	98.3	95.6
111°	94.4	97.1	97.4	94.8
111.5°	94.0	96.5	96.7	94.0
112°	93.6	95.9	96.0	93.2



REPORT NUMBER: P973038
 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	93.1	95.3	95.3	92.3
113°	92.7	94.7	94.5	91.6
113.5°	92.3	94.1	93.9	91.0
114°	92.1	93.4	93.2	90.4
114.5°	91.9	93.0	92.6	89.9
115°	91.8	92.5	92.0	89.3
115.5°	91.7	92.2	91.5	88.7
116°	91.7	91.9	91.0	88.1
116.5°	91.6	91.8	90.6	87.6
117°	91.6	91.6	90.3	87.3
117.5°	91.6	91.6	90.1	87.0
118°	91.5	91.5	89.9	86.8
118.5°	91.5	91.5	89.8	86.7
119°	91.5	91.5	89.7	86.6
119.5°	91.5	91.6	89.7	86.6
120°	91.4	91.6	89.7	86.7
120.5°	91.3	91.6	89.8	86.8
121°	91.3	91.6	89.9	87.0
121.5°	91.3	91.6	89.9	87.1
122°	91.3	91.6	89.9	87.2
122.5°	91.3	91.6	89.9	87.3
123°	91.2	91.6	89.9	87.5
123.5°	91.2	91.6	90.0	87.6
124°	91.2	91.6	90.1	87.8
124.5°	91.1	91.7	90.2	88.0
125°	91.2	91.8	90.3	88.2
125.5°	91.2	91.9	90.4	88.4
126°	91.2	91.9	90.5	88.7
126.5°	91.3	92.0	90.7	88.9
127°	91.3	92.1	90.7	88.9
127.5°	91.3	92.3	90.7	88.9
128°	91.4	92.4	90.7	89.0
128.5°	91.5	92.5	90.7	89.0
129°	91.5	92.6	90.7	89.0
129.5°	91.6	92.6	90.7	88.9
130°	91.6	92.7	90.7	88.9
130.5°	91.5	92.7	90.6	88.8
131°	91.5	92.8	90.6	88.7
131.5°	91.4	92.7	90.5	88.6
132°	91.4	92.6	90.4	88.5
132.5°	91.2	92.4	90.2	88.3
133°	91.1	92.3	90.0	87.9
133.5°	90.9	92.1	89.7	87.6
134°	90.6	91.8	89.3	87.1
134.5°	90.3	91.5	88.9	86.6



REPORT NUMBER: P973038
 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	90.0	91.1	88.4	86.0
135.5°	89.6	90.7	87.9	85.3
136°	89.2	90.2	87.5	84.7
136.5°	88.8	89.7	86.9	84.0
137°	88.3	89.1	86.3	83.2
137.5°	87.7	88.6	85.7	82.4
138°	87.0	88.0	84.9	81.5
138.5°	86.2	87.4	84.2	80.6
139°	84.9	86.8	83.5	79.7
139.5°	84.3	86.1	82.9	79.1
140°	83.7	85.2	82.2	78.3
140.5°	83.2	84.3	81.5	77.6
141°	82.7	83.1	80.7	76.6
141.5°	82.0	82.0	79.7	75.5
142°	81.4	81.5	78.7	74.4
142.5°	80.7	80.9	76.9	72.1
143°	79.9	80.3	76.0	71.4
143.5°	79.2	79.7	75.4	70.9
144°	78.3	79.0	74.7	70.3
144.5°	77.4	78.3	74.0	69.8
145°	76.5	77.6	73.3	69.2
145.5°	75.6	76.8	72.5	68.6
146°	74.6	75.9	71.7	67.9
146.5°	73.6	75.1	70.9	67.3
147°	72.6	74.2	70.1	66.5
147.5°	71.5	73.2	69.2	65.8
148°	70.4	72.2	68.3	65.1
148.5°	69.3	71.2	67.4	64.4
149°	68.1	70.0	66.5	63.5
149.5°	67.0	68.9	65.6	62.7
150°	65.7	67.8	64.6	61.9
150.5°	64.4	66.6	63.6	61.1
151°	63.1	65.4	62.6	60.2
151.5°	62.0	64.2	61.7	59.1
152°	60.7	62.9	60.5	58.2
152.5°	59.4	61.6	59.4	57.1
153°	58.1	60.3	58.3	56.0
153.5°	56.7	58.9	57.1	55.6
154°	55.3	57.5	55.9	54.5
154.5°	54.0	56.2	54.8	53.4
155°	52.6	54.8	53.6	52.3
155.5°	51.2	53.4	52.4	51.3
156°	49.9	52.1	51.3	50.1
156.5°	48.4	50.7	50.1	49.0
157°	46.8	49.2	48.9	47.9



REPORT NUMBER: P973038
 CATALOG NUMBER: WP-6984-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	45.4	47.8	47.8	46.7
158°	44.0	46.3	46.5	45.5
158.5°	42.5	44.8	45.2	44.2
159°	41.1	43.3	43.9	42.8
159.5°	39.7	41.8	42.6	41.5
160°	38.2	40.4	41.2	40.2
160.5°	36.7	39.0	39.9	38.9
161°	34.8	37.6	38.6	37.6
161.5°	32.3	36.1	37.4	36.4
162°	29.9	34.6	36.1	35.0
162.5°	27.4	32.6	34.7	33.6
163°	24.9	29.8	33.1	32.2
163.5°	22.7	27.3	31.0	29.8
164°	20.5	24.8	28.2	27.2
164.5°	18.5	22.3	25.6	24.6
165°	16.6	20.1	23.2	22.2
165.5°	14.8	18.0	20.7	19.8
166°	13.0	16.1	18.5	17.7
166.5°	11.2	14.3	16.5	15.7
167°	9.5	12.4	14.6	13.8
167.5°	7.8	10.6	12.7	11.9
168°	7.4	8.7	10.8	9.9
168.5°	7.0	6.9	8.8	7.8
169°	6.6	6.6	7.0	6.0
169.5°	6.3	6.3	6.5	5.7
170°	6.0	6.0	6.3	5.4
170.5°	5.7	5.8	6.1	5.1
171°	5.5	5.6	5.9	4.8
171.5°	5.2	5.4	5.7	4.6
172°	5.1	5.3	5.5	4.4
172.5°	4.9	5.1	5.4	4.2
173°	4.7	4.9	5.2	4.1
173.5°	4.6	4.7	5.1	4.0
174°	4.5	4.6	5.0	3.8
174.5°	4.4	4.6	4.8	3.7
175°	4.4	4.5	4.6	3.6
175.5°	4.3	4.4	4.5	3.5
176°	4.3	4.4	4.5	3.4
176.5°	4.2	4.4	4.5	3.4
177°	4.2	4.3	4.5	3.3
177.5°	4.3	4.4	4.5	3.3
178°	4.3	4.4	4.5	3.4
178.5°	4.3	4.4	4.6	3.4
179°	4.3	4.5	4.6	3.4
179.5°	4.4	4.5	4.7	3.5



REPORT NUMBER: P973038
CATALOG NUMBER: WP-6984-70W-4000K

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: SP1-2410-249-2

Test Date: 10/24/2024

Luminaire Tested: WP-6984-4000K-H (100W)

Data in this report applies to families of products including WP-6984-4000K-H (100W)

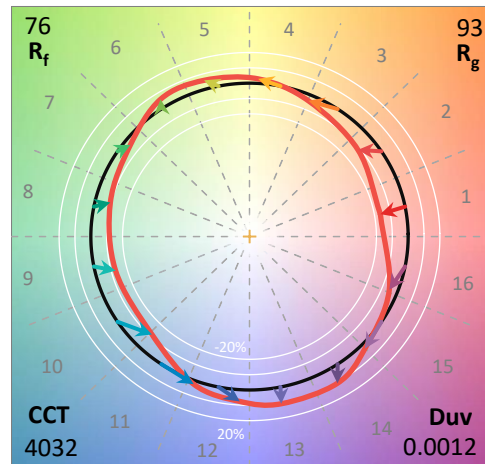
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2410-249-2
 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-6984-4000K-H (100W)**
 Description: DIALITE SQLED WALL PACK SAMPLE 100w-4000K HIGH OUTPUT

Spectral Parameters

CCT (K): 4032
 CIE u': 0.2238
 CIE v': 0.5025
 Duv: 0.0012
 CIE x: 0.3799
 CIE y: 0.3790
 CIE z: 0.2411
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 578
 Purity: 27.73699
 R_f: 75.7
 R_g: 93.4

CRI (Ra):	73.7		
R1:	70.9	R9:	-23.4
R2:	80.7	R10:	53.1
R3:	87.5	R11:	66.9
R4:	71.9	R12:	41.8
R5:	70.1	R13:	72.7
R6:	71.8	R14:	92.8
R7:	82.5	R15:	64.6
R8:	54.4		



Test Conditions

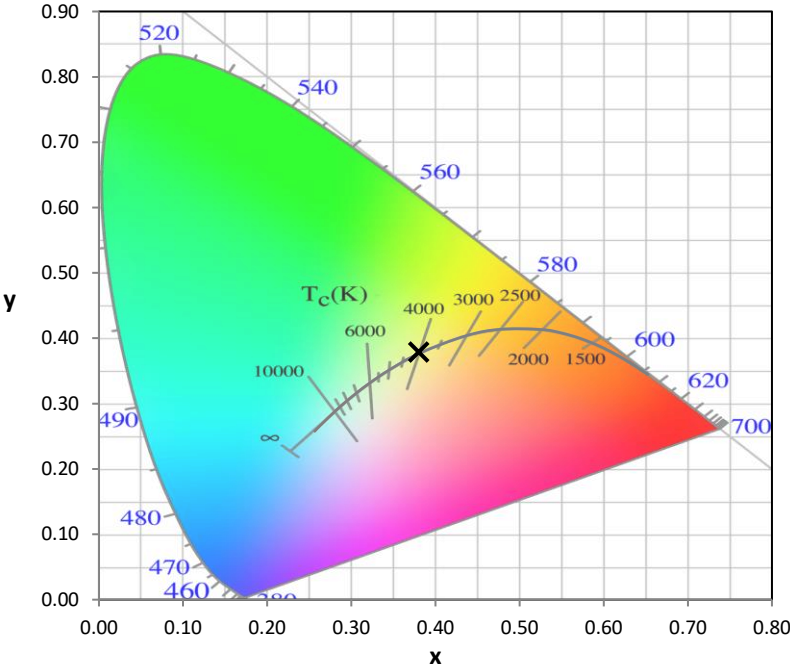
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-2

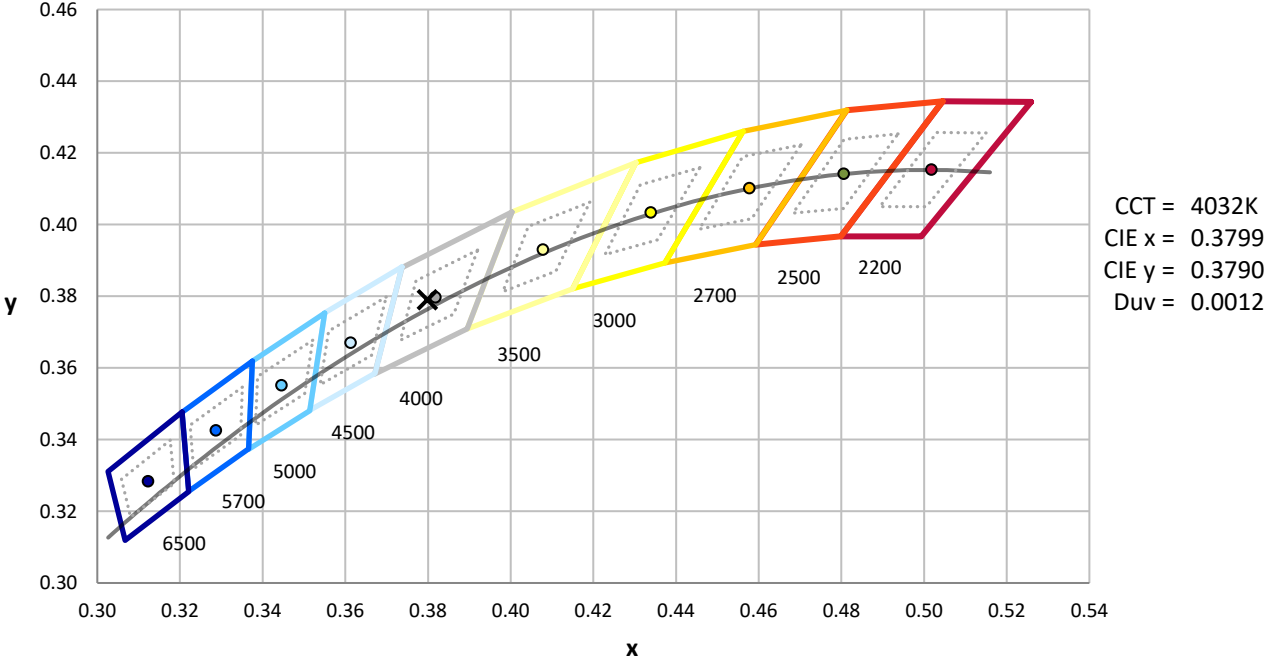
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2410-249-2

CIE 1931 Chromaticity Diagram



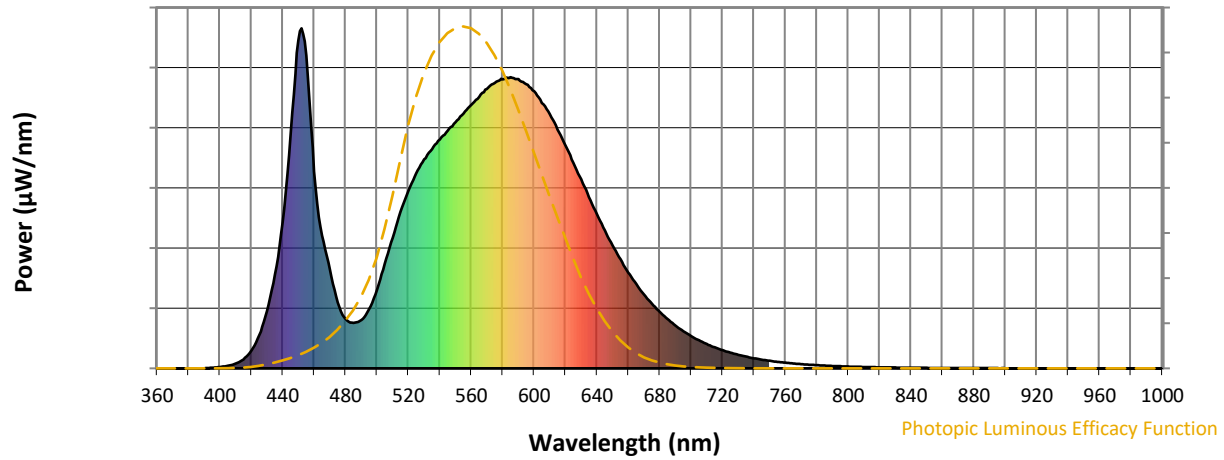
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-2

Photopic Flux vs. Wavelength

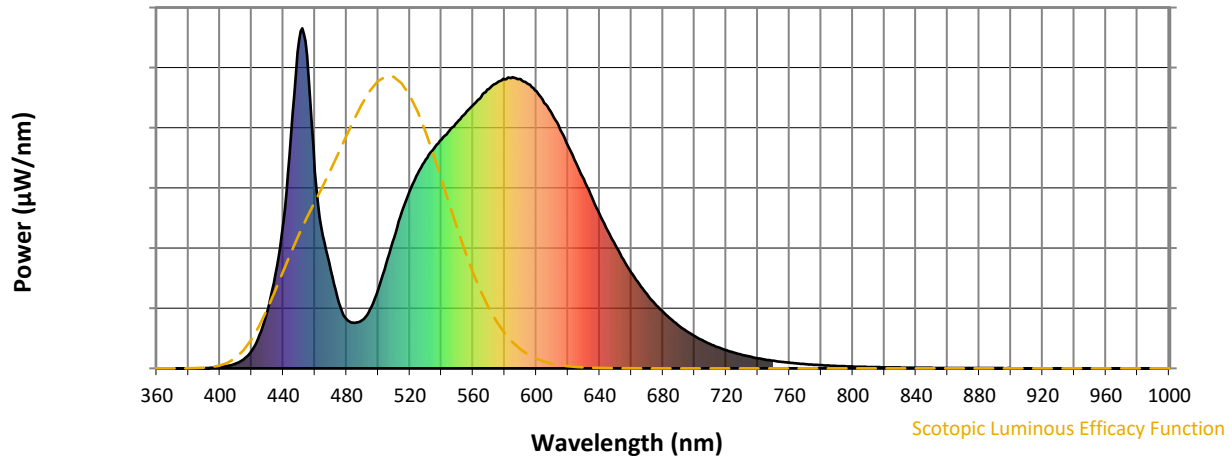


Photopic Lumens: NR

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	142	NR	620	655	NR	750	22	NR	880	1	NR
365	0	NR	495	174	NR	625	605	NR	755	19	NR	885	1	NR
370	0	NR	500	231	NR	630	556	NR	760	17	NR	890	1	NR
375	0	NR	505	307	NR	635	503	NR	765	14	NR	895	1	NR
380	0	NR	510	384	NR	640	453	NR	770	12	NR	900	0	NR
385	0	NR	515	460	NR	645	406	NR	775	11	NR	905	0	NR
390	0	NR	520	522	NR	650	361	NR	780	9	NR	910	0	NR
395	2	NR	525	573	NR	655	321	NR	785	8	NR	915	0	NR
400	4	NR	530	614	NR	660	282	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	248	NR	795	6	NR	925	0	NR
410	14	NR	540	673	NR	670	217	NR	800	5	NR	930	0	NR
415	27	NR	545	700	NR	675	190	NR	805	5	NR	935	0	NR
420	52	NR	550	724	NR	680	166	NR	810	4	NR	940	0	NR
425	98	NR	555	749	NR	685	145	NR	815	4	NR	945	0	NR
430	169	NR	560	775	NR	690	126	NR	820	3	NR	950	0	NR
435	277	NR	565	798	NR	695	110	NR	825	3	NR	955	0	NR
440	430	NR	570	822	NR	700	95	NR	830	2	NR	960	0	NR
445	690	NR	575	839	NR	705	82	NR	835	2	NR	965	0	NR
450	965	NR	580	850	NR	710	71	NR	840	2	NR	970	0	NR
455	920	NR	585	856	NR	715	62	NR	845	2	NR	975	0	NR
460	579	NR	590	851	NR	720	54	NR	850	1	NR	980	0	NR
465	390	NR	595	836	NR	725	46	NR	855	1	NR	985	0	NR
470	289	NR	600	815	NR	730	40	NR	860	1	NR	990	0	NR
475	194	NR	605	781	NR	735	34	NR	865	1	NR	995	0	NR
480	145	NR	610	747	NR	740	30	NR	870	1	NR	1000	0	NR
485	134	NR	615	702	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2410-249-2

Scotopic Flux vs. Wavelength



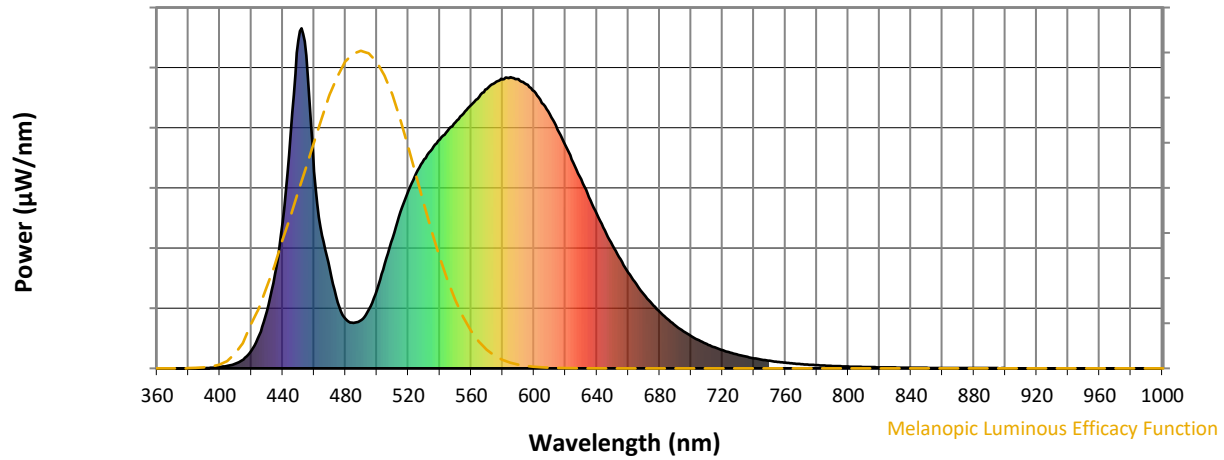
Scotopic Lumens: NR

S/P: 1.55

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	142	NR	620	655	NR	750	22	NR	880	1	NR
365	0	NR	495	174	NR	625	605	NR	755	19	NR	885	1	NR
370	0	NR	500	231	NR	630	556	NR	760	17	NR	890	1	NR
375	0	NR	505	307	NR	635	503	NR	765	14	NR	895	1	NR
380	0	NR	510	384	NR	640	453	NR	770	12	NR	900	0	NR
385	0	NR	515	460	NR	645	406	NR	775	11	NR	905	0	NR
390	0	NR	520	522	NR	650	361	NR	780	9	NR	910	0	NR
395	2	NR	525	573	NR	655	321	NR	785	8	NR	915	0	NR
400	4	NR	530	614	NR	660	282	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	248	NR	795	6	NR	925	0	NR
410	14	NR	540	673	NR	670	217	NR	800	5	NR	930	0	NR
415	27	NR	545	700	NR	675	190	NR	805	5	NR	935	0	NR
420	52	NR	550	724	NR	680	166	NR	810	4	NR	940	0	NR
425	98	NR	555	749	NR	685	145	NR	815	4	NR	945	0	NR
430	169	NR	560	775	NR	690	126	NR	820	3	NR	950	0	NR
435	277	NR	565	798	NR	695	110	NR	825	3	NR	955	0	NR
440	430	NR	570	822	NR	700	95	NR	830	2	NR	960	0	NR
445	690	NR	575	839	NR	705	82	NR	835	2	NR	965	0	NR
450	965	NR	580	850	NR	710	71	NR	840	2	NR	970	0	NR
455	920	NR	585	856	NR	715	62	NR	845	2	NR	975	0	NR
460	579	NR	590	851	NR	720	54	NR	850	1	NR	980	0	NR
465	390	NR	595	836	NR	725	46	NR	855	1	NR	985	0	NR
470	289	NR	600	815	NR	730	40	NR	860	1	NR	990	0	NR
475	194	NR	605	781	NR	735	34	NR	865	1	NR	995	0	NR
480	145	NR	610	747	NR	740	30	NR	870	1	NR	1000	0	NR
485	134	NR	615	702	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2410-249-2

Melanopic Flux vs. Wavelength



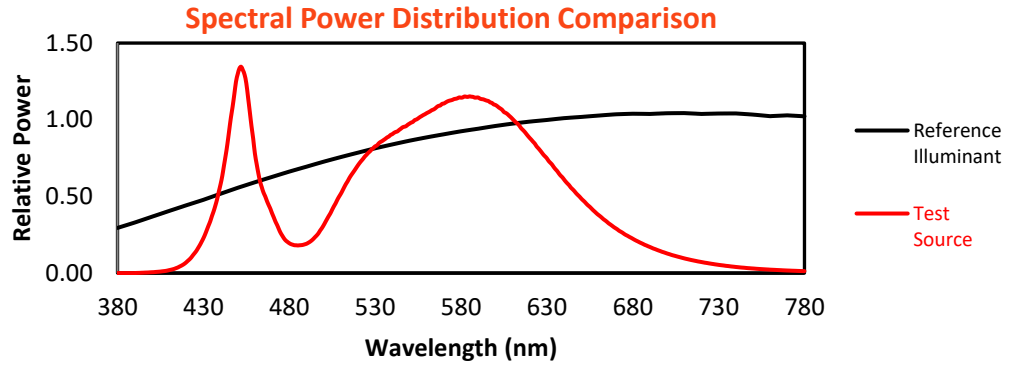
Melanopic Lumens: NR

M/P: 3.08

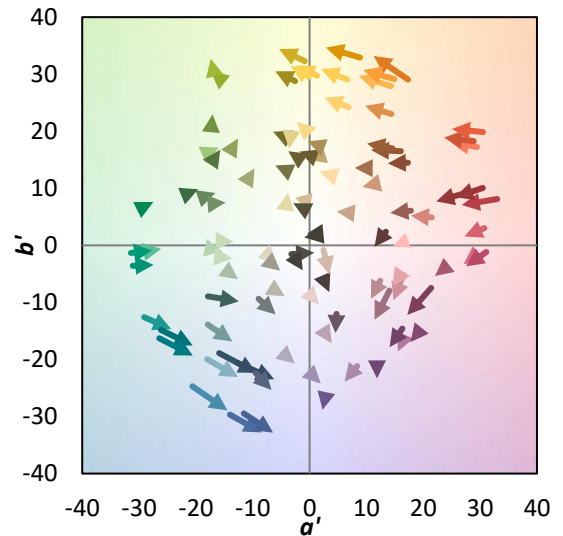
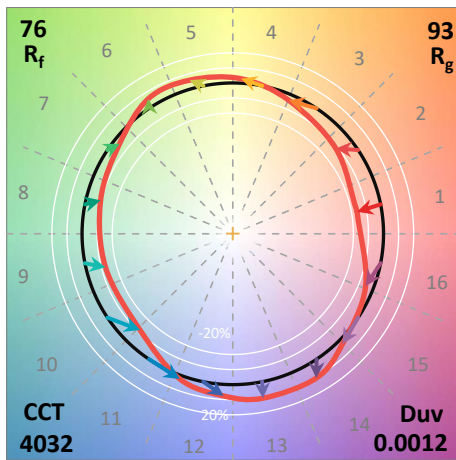
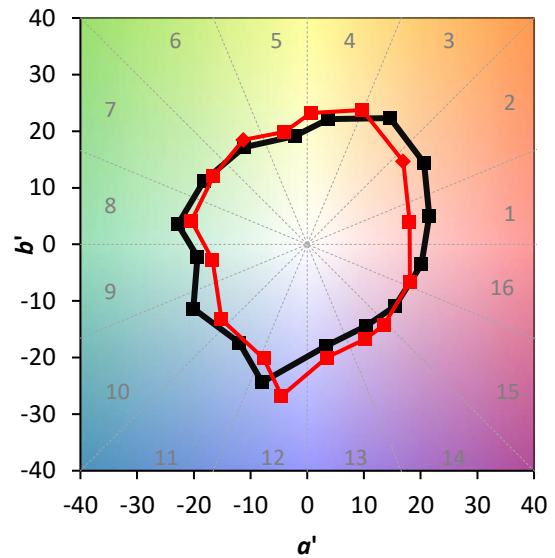
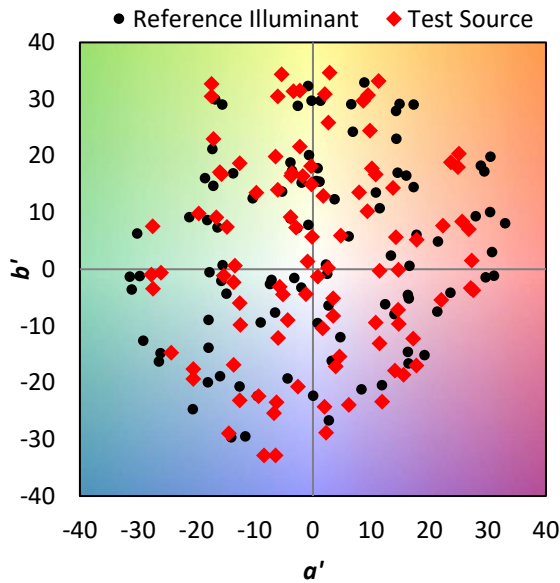
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	655	NR	750	22	NR	880	1	NR
365	0	NR	495	174	NR	625	605	NR	755	19	NR	885	1	NR
370	0	NR	500	231	NR	630	556	NR	760	17	NR	890	1	NR
375	0	NR	505	307	NR	635	503	NR	765	14	NR	895	1	NR
380	0	NR	510	384	NR	640	453	NR	770	12	NR	900	0	NR
385	0	NR	515	460	NR	645	406	NR	775	11	NR	905	0	NR
390	0	NR	520	522	NR	650	361	NR	780	9	NR	910	0	NR
395	2	NR	525	573	NR	655	321	NR	785	8	NR	915	0	NR
400	4	NR	530	614	NR	660	282	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	248	NR	795	6	NR	925	0	NR
410	14	NR	540	673	NR	670	217	NR	800	5	NR	930	0	NR
415	27	NR	545	700	NR	675	190	NR	805	5	NR	935	0	NR
420	52	NR	550	724	NR	680	166	NR	810	4	NR	940	0	NR
425	98	NR	555	749	NR	685	145	NR	815	4	NR	945	0	NR
430	169	NR	560	775	NR	690	126	NR	820	3	NR	950	0	NR
435	277	NR	565	798	NR	695	110	NR	825	3	NR	955	0	NR
440	430	NR	570	822	NR	700	95	NR	830	2	NR	960	0	NR
445	690	NR	575	839	NR	705	82	NR	835	2	NR	965	0	NR
450	965	NR	580	850	NR	710	71	NR	840	2	NR	970	0	NR
455	920	NR	585	856	NR	715	62	NR	845	2	NR	975	0	NR
460	579	NR	590	851	NR	720	54	NR	850	1	NR	980	0	NR
465	390	NR	595	836	NR	725	46	NR	855	1	NR	985	0	NR
470	289	NR	600	815	NR	730	40	NR	860	1	NR	990	0	NR
475	194	NR	605	781	NR	735	34	NR	865	1	NR	995	0	NR
480	145	NR	610	747	NR	740	30	NR	870	1	NR	1000	0	NR
485	134	NR	615	702	NR	745	26	NR	875	1	NR			

Summary

$R_f = 75.7$
 $R_g = 93.4$
 CIE $R_a = 73.7$
 $R_g = -23.4$

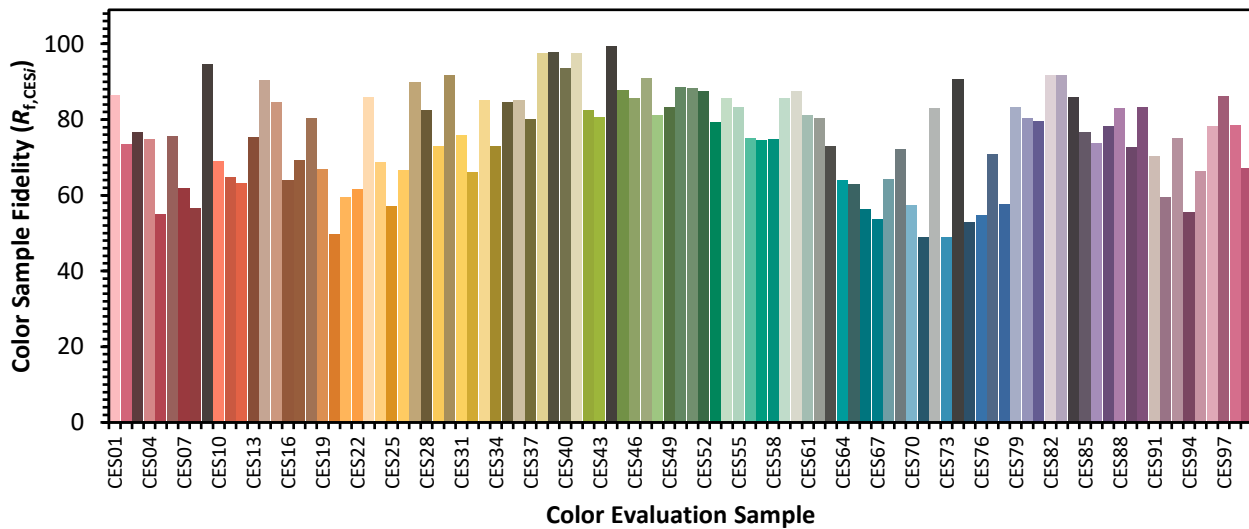


Color Vector Graphics

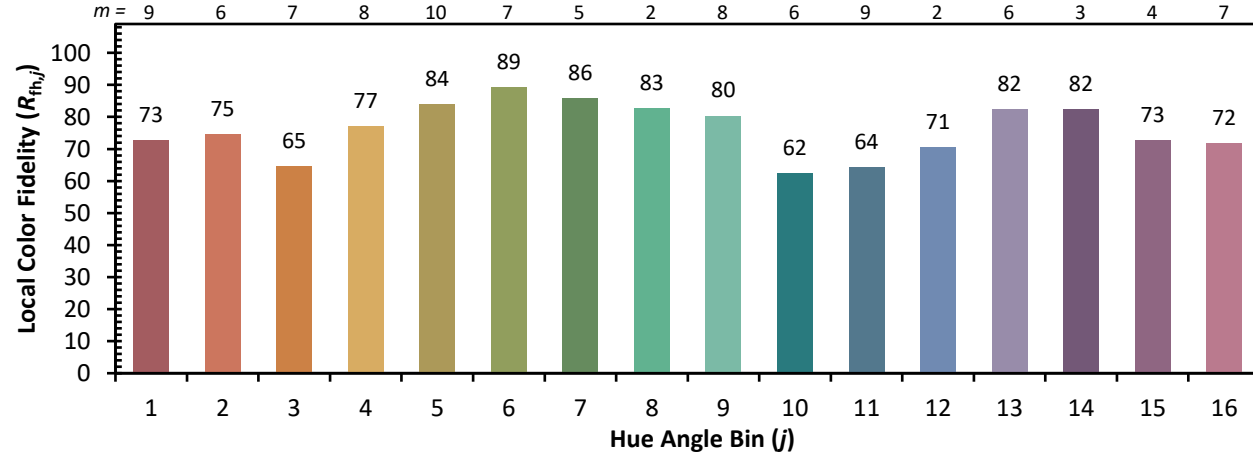
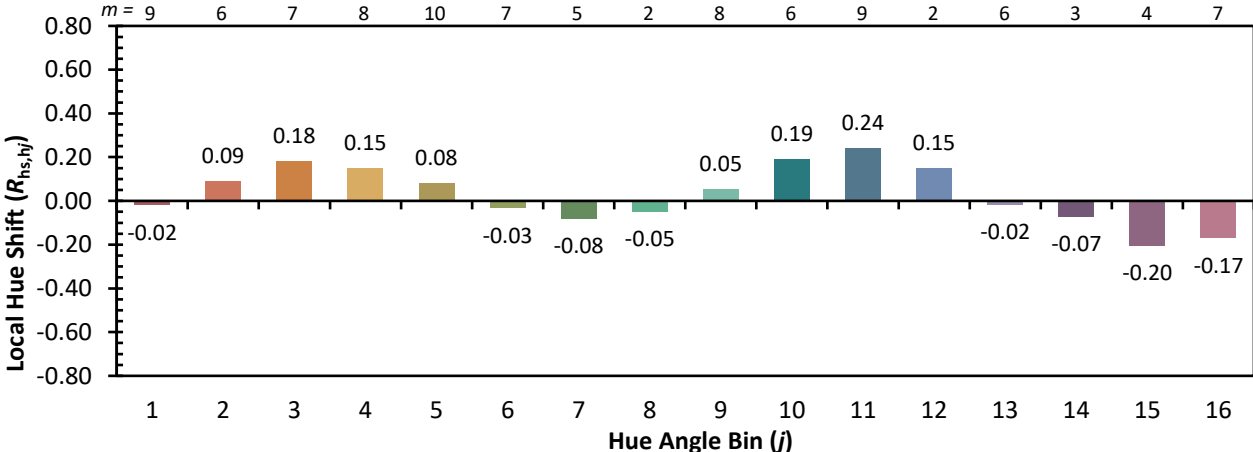
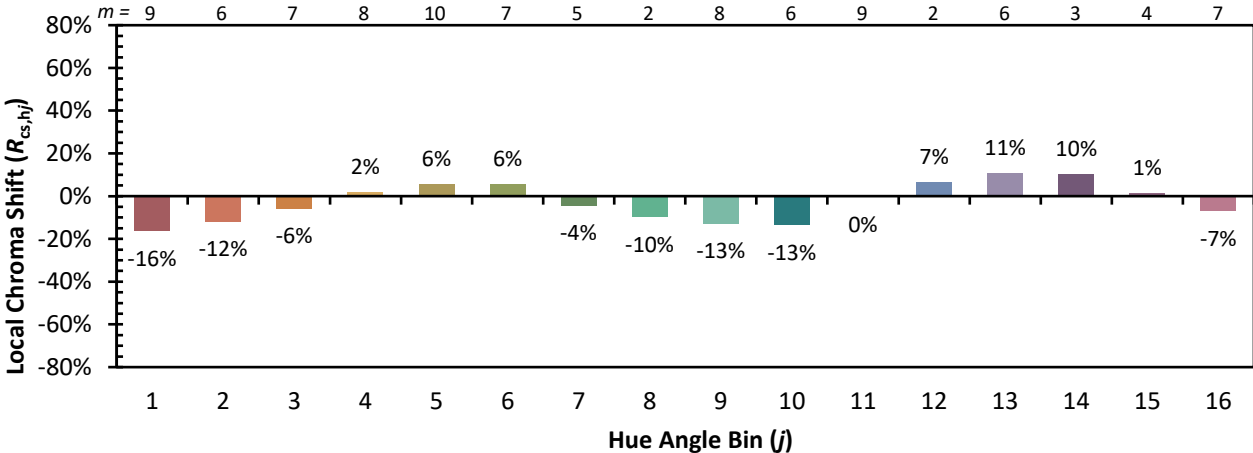


Individual Sample Fidelity Index ($R_{f,i}$)

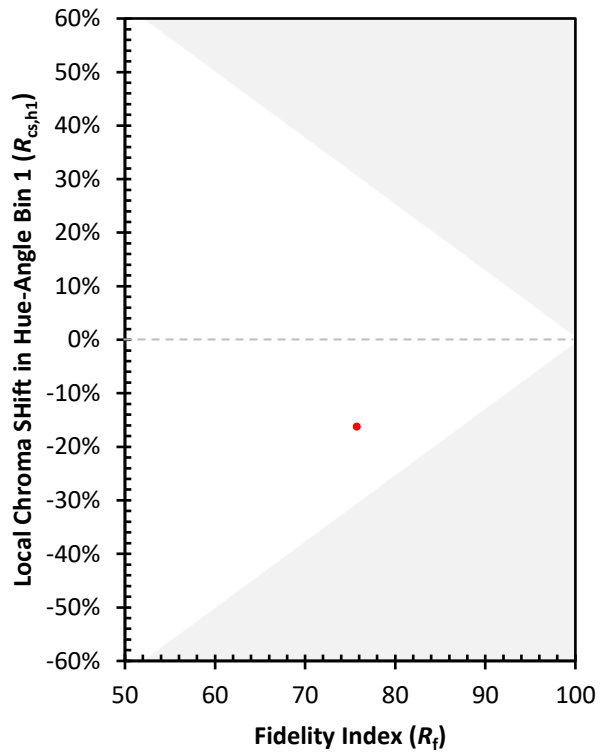
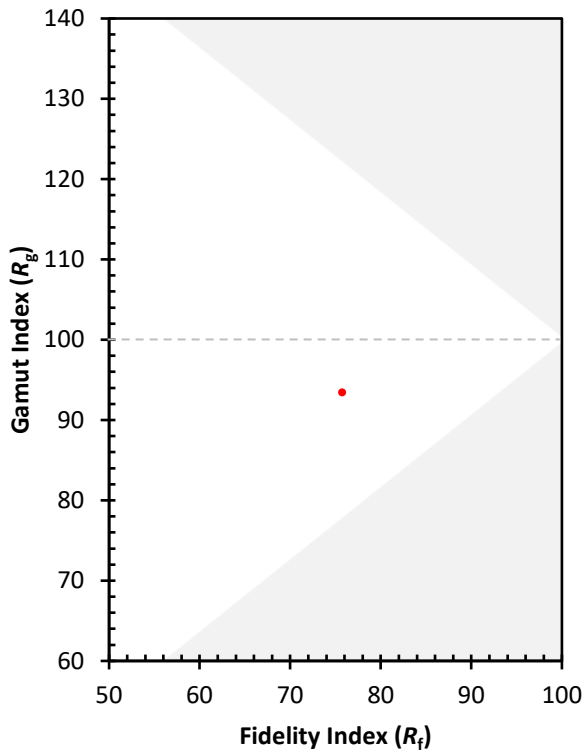
CES01 = 85	CES26 = 67	CES51 = 88	CES76 = 55
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 83	CES53 = 79	CES78 = 58
CES04 = 70	CES29 = 73	CES54 = 86	CES79 = 83
CES05 = 47	CES30 = 92	CES55 = 83	CES80 = 80
CES06 = 50	CES31 = 76	CES56 = 75	CES81 = 80
CES07 = 40	CES32 = 66	CES57 = 75	CES82 = 92
CES08 = 39	CES33 = 85	CES58 = 75	CES83 = 92
CES09 = 29	CES34 = 73	CES59 = 86	CES84 = 86
CES10 = 74	CES35 = 85	CES60 = 88	CES85 = 77
CES11 = 57	CES36 = 85	CES61 = 81	CES86 = 74
CES12 = 63	CES37 = 80	CES62 = 80	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 73	CES88 = 83
CES14 = 74	CES39 = 98	CES64 = 64	CES89 = 73
CES15 = 71	CES40 = 93	CES65 = 63	CES90 = 83
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 70
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 60
CES18 = 56	CES43 = 81	CES68 = 64	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 55
CES20 = 65	CES45 = 88	CES70 = 57	CES95 = 67
CES21 = 86	CES46 = 86	CES71 = 49	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 49	CES98 = 78
CES24 = 91	CES49 = 83	CES74 = 91	CES99 = 67
CES25 = 72	CES50 = 89	CES75 = 53	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)