

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: P973042

Luminaire Tested: **WP-6984-80W-5000K**

Issue Date: 03/12/2025



Test Information

Test Method: LM-79-08
Report Number: P973042
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 03/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WP-6984-80W-5000K
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @80W-5000K
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

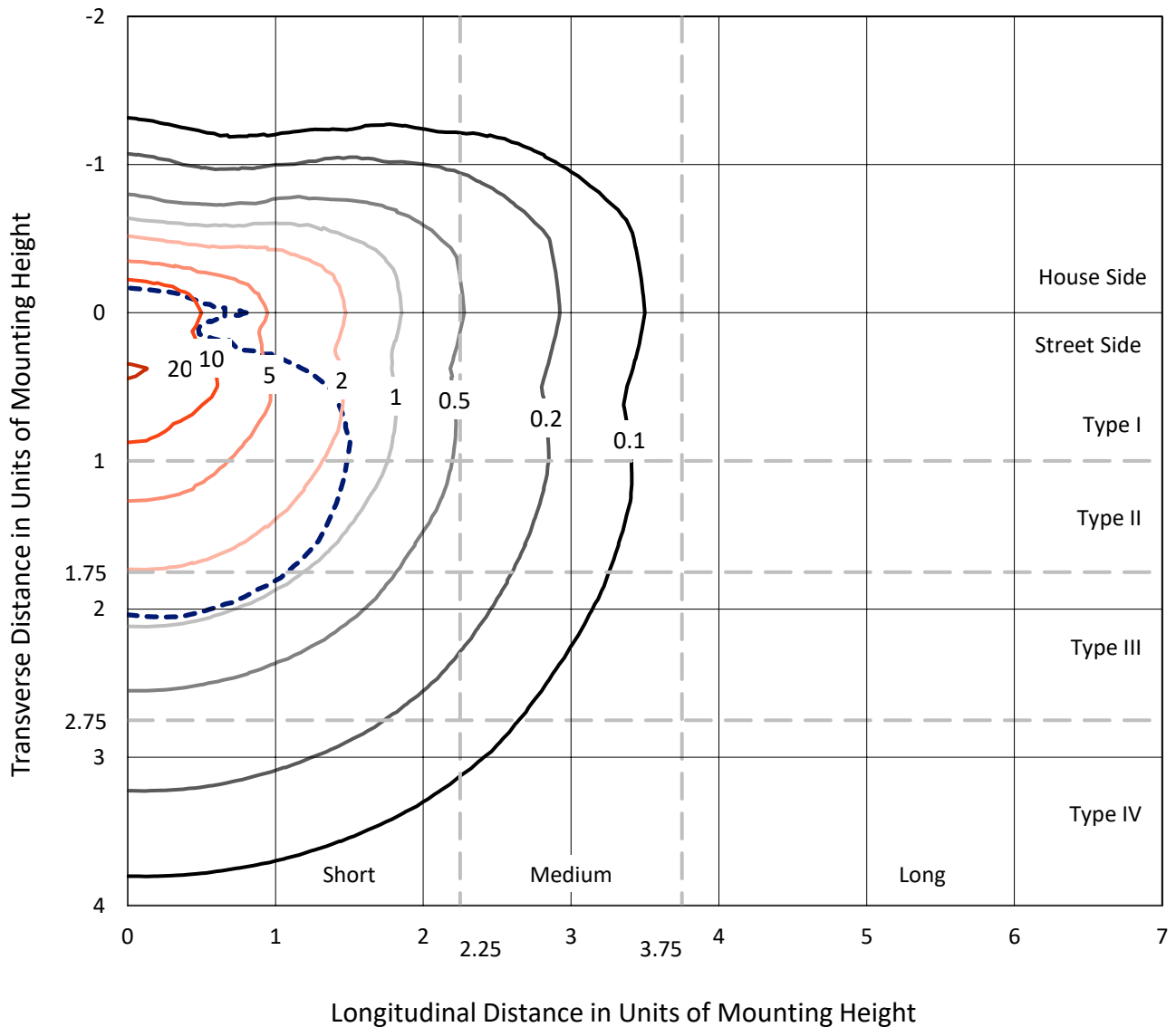
Lumens per Lamp: N/A
Luminaire Lumens: 11181.3 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G2

Input Watts (W): 78.7
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

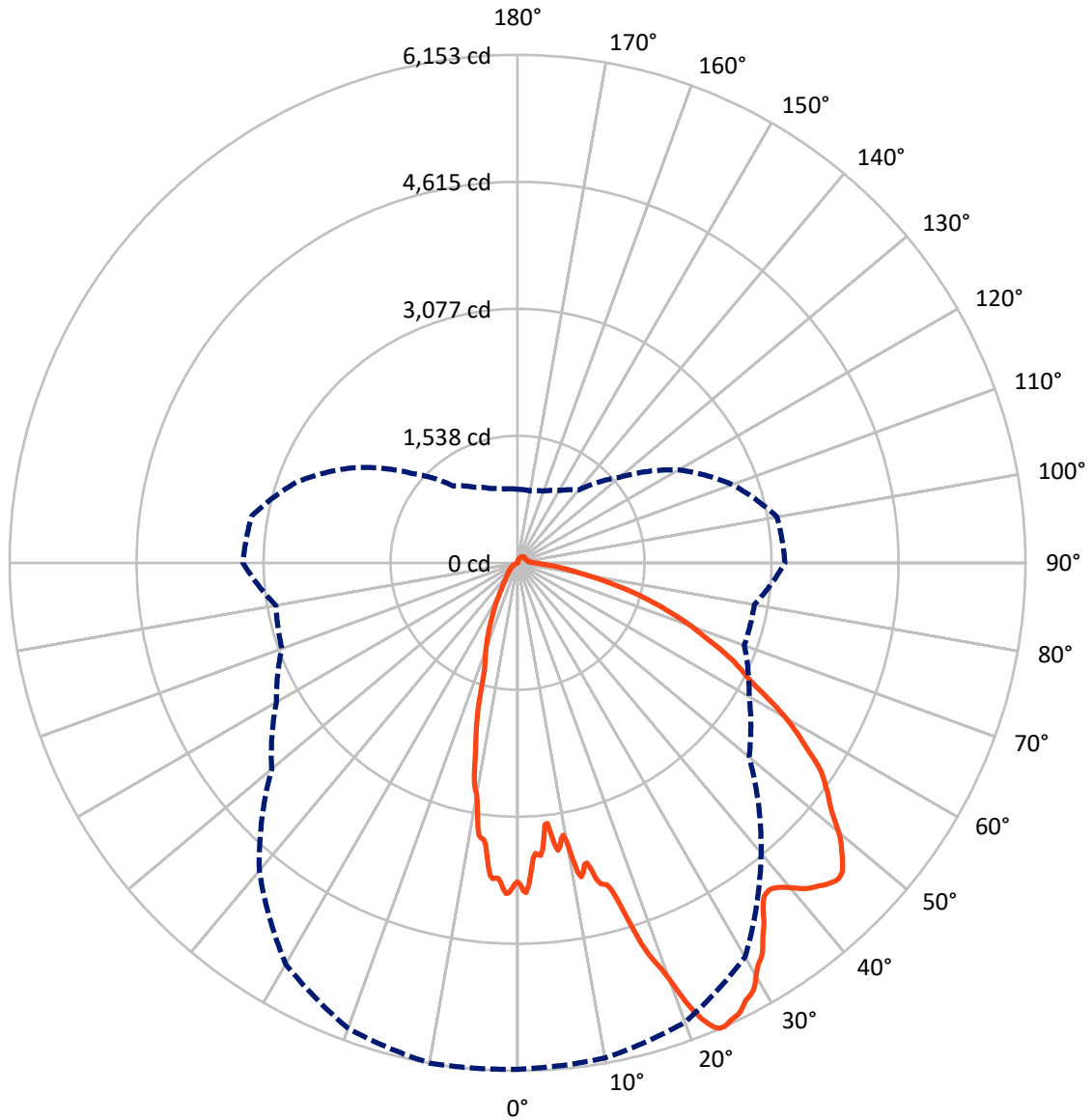
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 21.3 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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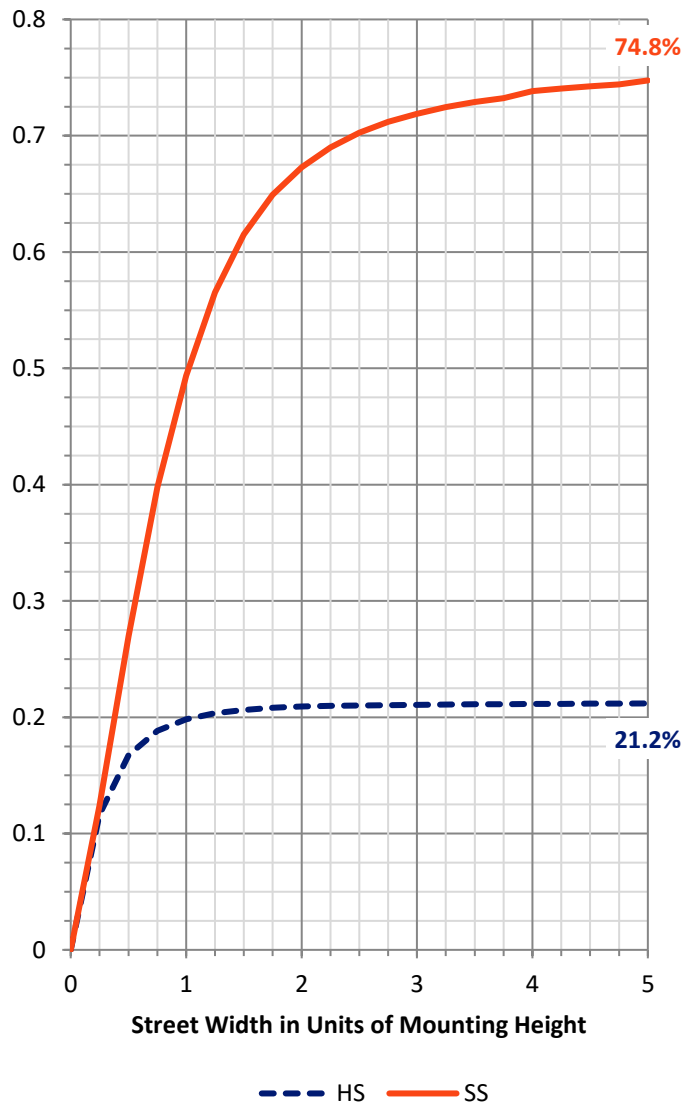
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2396.5	56.8	2453.3
	% Fixture	21.4	0.5	21.9
Street Side	Lumens	8449.4	278.7	8728.1
	% Fixture	75.6	2.5	78.1
Total	Lumens	10845.8	335.5	11181.3
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	3.1
10°-20°	905.7	8.1
20°-30°	1420.7	12.7
30°-40°	1715.3	15.3
40°-50°	1953.7	17.5
50°-60°	1940.6	17.4
60°-70°	1485.5	13.3
70°-80°	827.9	7.4
80°-90°	253.5	2.3
90°-100°	75.4	0.7
100°-110°	61.1	0.5
110°-120°	56.1	0.5
120°-130°	50.6	0.5
130°-140°	43.7	0.4
140°-150°	30.3	0.3
150°-160°	14.5	0.1
160°-170°	3.5	0.0
170°-180°	0.5	0.0
0°-90°	10845.8	97.0
0°-180°	11181.3	100.0

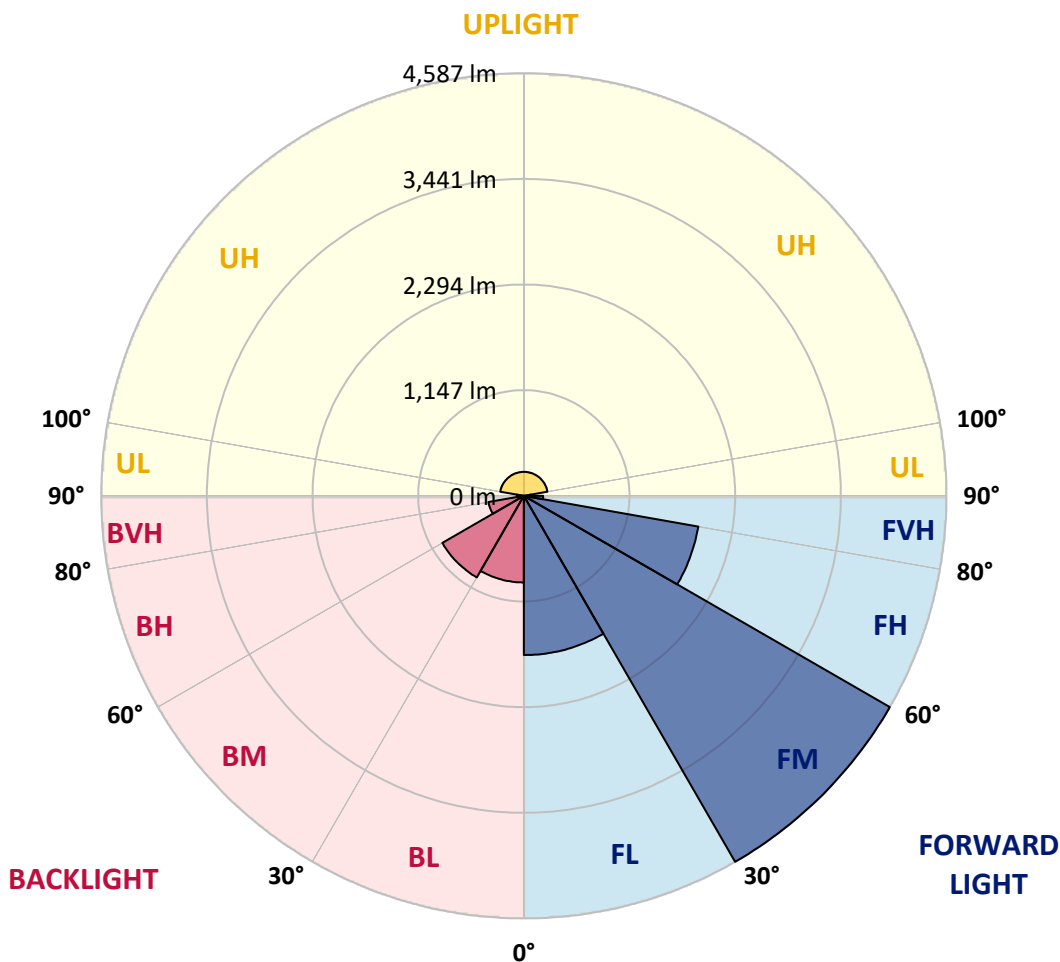


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1728.8	15.5			
FM (30°-60°)	4587.5	41.0			
FH (60°-80°)	1923.8	17.2			G2/5000
FVH (80°-90°)	209.2	1.9			G2/225
BL (0°-30°)	940.5	8.4	B2/1000		
BM (30°-60°)	1022.1	9.1	B2/2500		
BH (60°-80°)	389.6	3.5	B1/500		G1/500
BVH (80°-90°)	44.3	0.4			G1/100
UL (90°-100°)	75.4	0.7		U3/500	
UH (100°-180°)	260.1	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°	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1
0.5°	3962.2	3960.5	3960.4	3961.4	3959.9	3951.7	3942.1	3930.8	3917.9	3905.3	3893.4
1°	3923.1	3926.9	3942.3	3958.1	3975.6	3980.2	3972.7	3956.9	3926.1	3901.3	3880.8
1.5°	3782.8	3794.1	3821.2	3866.9	3916.3	3956.0	3978.5	3970.4	3931.6	3893.2	3863.3
2°	3606.4	3618.6	3656.1	3719.6	3799.3	3880.4	3955.8	3976.1	3943.9	3885.3	3847.2
2.5°	3503.2	3510.3	3527.2	3573.9	3659.3	3776.8	3898.2	3964.1	3951.0	3882.4	3835.9
3°	3500.6	3494.3	3491.6	3499.5	3546.6	3661.4	3817.7	3938.0	3946.6	3872.3	3822.6
3.5°	3526.9	3520.0	3511.7	3492.7	3495.3	3559.8	3725.7	3894.4	3937.6	3860.3	3807.2
4°	3490.2	3501.2	3514.0	3509.9	3485.5	3500.2	3634.4	3840.7	3927.3	3854.8	3800.2
4.5°	3350.3	3380.7	3438.2	3501.2	3495.1	3475.6	3554.1	3781.4	3915.3	3839.6	3791.4
5°	3188.5	3212.4	3284.9	3410.2	3493.5	3469.6	3492.4	3711.6	3894.5	3825.4	3788.6
5.5°	3132.4	3131.6	3150.3	3265.4	3428.8	3478.9	3457.4	3644.6	3873.6	3810.5	3780.8
6°	3212.9	3182.4	3132.0	3146.0	3311.7	3468.9	3433.9	3577.1	3850.6	3795.4	3779.5
6.5°	3365.8	3323.8	3221.1	3124.9	3183.8	3417.8	3429.2	3514.5	3828.1	3781.4	3773.4
7°	3476.0	3457.0	3363.7	3196.1	3111.7	3328.7	3431.4	3462.2	3793.7	3766.5	3768.8
7.5°	3461.8	3472.0	3468.5	3321.1	3115.6	3212.4	3430.8	3421.5	3754.5	3745.5	3758.4
8°	3357.7	3375.8	3441.7	3433.2	3183.2	3118.1	3407.2	3388.7	3721.4	3726.9	3744.6
8.5°	3299.2	3290.1	3337.9	3449.5	3303.4	3065.7	3357.7	3366.0	3682.0	3703.2	3735.2
9°	3366.0	3311.3	3264.4	3374.0	3400.1	3064.2	3281.4	3347.9	3637.4	3688.7	3723.3
9.5°	3553.8	3481.8	3308.0	3277.9	3429.2	3124.5	3189.2	3339.4	3592.1	3678.3	3708.4
10°	3756.5	3686.7	3466.8	3245.7	3373.5	3222.4	3097.4	3334.7	3550.9	3663.6	3698.9
10.5°	3847.6	3817.4	3674.6	3325.0	3277.4	3309.6	3032.9	3331.1	3508.0	3653.9	3686.7
11°	3805.2	3810.2	3798.4	3502.1	3212.6	3361.3	2999.1	3322.6	3469.3	3648.7	3676.5
11.5°	3709.8	3721.4	3786.7	3679.3	3217.8	3351.9	3008.1	3306.1	3434.8	3639.7	3669.1
12°	3690.3	3661.4	3697.1	3774.3	3321.1	3294.9	3051.6	3276.7	3402.7	3631.7	3659.7
12.5°	3784.4	3718.8	3626.6	3754.1	3479.4	3215.4	3113.3	3227.2	3363.6	3624.8	3650.4
13°	3915.2	3847.6	3666.7	3660.8	3630.3	3159.5	3192.8	3177.7	3327.8	3612.3	3637.1
13.5°	3981.3	3935.5	3781.7	3582.8	3711.7	3154.4	3259.8	3114.1	3293.6	3595.2	3621.0
14°	3990.9	3952.3	3875.6	3604.4	3695.5	3214.3	3298.6	3054.1	3259.8	3575.1	3602.1
14.5°	3999.4	3937.2	3899.5	3705.5	3615.9	3341.5	3297.6	2996.9	3229.3	3556.6	3583.8
15°	4053.8	3959.5	3875.5	3793.9	3527.8	3481.3	3264.3	2947.7	3200.0	3542.9	3562.2
15.5°	4199.7	4069.5	3869.1	3828.2	3504.1	3599.3	3210.2	2912.8	3173.1	3524.0	3543.8
16°	4397.8	4246.4	3939.6	3803.1	3567.0	3656.0	3144.2	2893.8	3150.5	3506.8	3523.8
16.5°	4612.6	4461.2	4085.2	3770.0	3665.5	3645.9	3091.8	2895.3	3133.5	3488.7	3502.2
17°	4797.8	4657.9	4273.1	3790.6	3733.0	3583.5	3071.2	2913.7	3119.0	3471.0	3483.0
17.5°	4939.7	4797.4	4460.6	3880.7	3743.8	3503.0	3090.2	2940.5	3106.5	3454.7	3464.0
18°	5049.4	4919.0	4618.7	4032.4	3708.6	3440.6	3146.9	2980.5	3094.2	3435.5	3444.5
18.5°	5161.0	5023.8	4736.5	4203.5	3678.4	3437.6	3245.1	3028.1	3080.2	3418.1	3425.9
19°	5302.8	5137.5	4835.1	4356.8	3684.7	3490.8	3342.6	3066.7	3072.1	3398.8	3407.8
19.5°	5482.2	5291.0	4926.0	4484.7	3753.8	3565.6	3435.7	3102.3	3057.7	3378.7	3389.5
20°	5667.8	5478.6	5036.2	4585.2	3866.3	3611.8	3492.7	3117.6	3046.4	3359.5	3366.9
20.5°	5822.0	5663.9	5197.8	4686.6	4002.7	3615.4	3507.0	3117.9	3032.3	3338.9	3344.4
21°	5940.0	5802.3	5371.6	4780.0	4140.5	3584.1	3474.0	3102.9	3014.3	3322.0	3320.5
21.5°	6029.3	5921.5	5549.1	4880.4	4254.1	3543.3	3413.3	3075.2	2995.3	3303.9	3296.7
22°	6096.0	6014.8	5703.3	5015.1	4347.8	3515.0	3339.6	3033.4	2975.5	3286.6	3271.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	6128.9	6060.2	5816.5	5176.6	4432.5	3527.0	3273.9	2989.5	2956.5	3269.3	3246.2
23°	6141.1	6083.4	5889.6	5348.7	4510.6	3578.8	3234.7	2952.9	2935.0	3254.1	3220.2
23.5°	6134.3	6090.7	5924.4	5511.2	4590.1	3661.0	3239.2	2922.6	2913.0	3238.4	3192.7
24°	6113.3	6087.6	5958.1	5634.6	4669.7	3759.1	3273.0	2907.5	2888.6	3223.7	3167.7
24.5°	6092.8	6068.6	5980.9	5711.0	4766.7	3860.5	3322.5	2907.7	2862.0	3204.8	3142.6
25°	6061.7	6031.7	5981.9	5741.8	4894.8	3955.1	3361.3	2922.1	2838.7	3190.8	3117.8
25.5°	6028.9	5992.0	5953.9	5758.5	5042.8	4034.0	3378.6	2956.7	2811.2	3174.5	3095.0
26°	5991.3	5960.3	5900.4	5792.5	5187.3	4099.5	3366.8	3000.4	2789.7	3159.0	3074.1
26.5°	5966.0	5936.5	5851.6	5812.9	5310.9	4156.9	3337.6	3056.5	2769.7	3146.6	3052.1
27°	5946.7	5908.9	5825.3	5806.6	5389.4	4212.9	3303.4	3110.7	2754.6	3135.2	3030.8
27.5°	5903.4	5876.5	5800.2	5759.9	5408.4	4266.6	3280.9	3149.9	2741.4	3125.3	3011.7
28°	5851.5	5834.3	5782.0	5698.2	5403.4	4319.6	3277.6	3174.9	2729.4	3115.3	2992.4
28.5°	5791.7	5786.8	5752.8	5631.6	5404.0	4388.1	3295.6	3183.6	2721.5	3106.2	2976.3
29°	5735.4	5731.9	5714.6	5597.2	5437.0	4474.3	3334.7	3176.1	2714.5	3096.0	2961.2
29.5°	5677.2	5679.9	5671.1	5576.5	5468.4	4578.0	3388.6	3154.9	2710.6	3087.6	2947.9
30°	5631.8	5631.5	5615.6	5553.7	5460.7	4679.8	3445.8	3127.1	2711.9	3079.4	2933.7
30.5°	5583.9	5597.7	5570.1	5525.0	5410.3	4771.4	3504.2	3093.1	2714.4	3072.9	2920.8
31°	5532.0	5545.8	5537.1	5481.8	5327.1	4837.3	3562.7	3060.7	2719.8	3067.0	2908.1
31.5°	5475.4	5483.2	5511.2	5438.5	5258.6	4864.8	3610.1	3037.0	2724.9	3060.5	2896.5
32°	5414.3	5425.1	5464.4	5386.7	5218.9	4868.6	3646.4	3024.8	2731.9	3054.7	2885.4
32.5°	5366.3	5385.4	5391.4	5335.9	5202.5	4865.1	3679.6	3025.2	2738.9	3049.2	2876.2
33°	5311.7	5356.4	5327.2	5302.5	5180.8	4868.2	3706.9	3036.9	2749.2	3043.9	2865.9
33.5°	5234.8	5301.2	5285.8	5276.8	5147.3	4883.3	3737.5	3055.5	2758.2	3039.6	2853.5
34°	5142.5	5207.9	5268.4	5239.6	5109.4	4901.4	3775.4	3076.2	2766.5	3036.2	2839.2
34.5°	5067.9	5117.0	5233.2	5176.0	5074.6	4902.7	3811.5	3091.0	2771.4	3033.8	2826.5
35°	5017.8	5043.9	5159.7	5100.9	5034.2	4878.0	3849.9	3095.4	2774.8	3029.6	2815.6
35.5°	4987.5	4993.2	5058.6	5034.4	4992.1	4831.4	3896.9	3094.8	2776.3	3026.2	2805.3
36°	4972.0	4964.5	4976.7	5007.9	4943.5	4780.9	3944.6	3083.7	2772.4	3021.8	2793.3
36.5°	4975.7	4964.4	4922.5	4992.4	4903.6	4742.9	3994.2	3068.9	2767.5	3018.8	2782.6
37°	4994.4	4977.2	4887.9	4938.4	4879.5	4714.0	4038.3	3056.3	2761.1	3012.8	2771.8
37.5°	5016.3	4999.9	4869.7	4853.8	4849.8	4690.3	4074.3	3046.1	2752.7	3006.8	2761.6
38°	5049.5	5032.5	4863.8	4762.0	4813.1	4665.3	4101.6	3038.5	2743.3	2997.5	2748.0
38.5°	5083.1	5069.4	4869.7	4700.7	4756.0	4635.3	4118.5	3037.0	2732.0	2987.4	2735.8
39°	5123.0	5112.2	4880.5	4659.5	4702.4	4598.1	4123.0	3040.1	2721.3	2974.7	2721.6
39.5°	5161.9	5154.0	4905.8	4626.6	4667.9	4565.6	4123.5	3046.0	2708.3	2964.2	2706.7
40°	5200.7	5189.9	4937.2	4599.7	4653.2	4537.3	4123.5	3056.6	2697.6	2953.9	2693.1
40.5°	5237.8	5222.9	4967.2	4578.7	4631.5	4511.1	4123.7	3064.9	2689.5	2946.2	2681.7
41°	5269.5	5256.3	4995.1	4569.4	4587.9	4483.1	4121.4	3072.3	2682.0	2939.9	2671.3
41.5°	5300.6	5283.1	5021.3	4563.8	4531.5	4455.5	4115.8	3080.4	2678.6	2933.7	2661.5
42°	5318.2	5314.6	5048.0	4567.3	4479.5	4430.8	4099.6	3089.1	2675.3	2929.7	2653.6
42.5°	5348.2	5335.5	5072.3	4576.0	4441.0	4407.3	4081.1	3095.3	2674.3	2923.4	2645.1
43°	5380.9	5364.9	5105.1	4586.6	4411.6	4382.8	4055.1	3102.9	2674.5	2919.5	2637.4
43.5°	5405.8	5387.7	5131.4	4596.2	4386.5	4355.6	4025.6	3107.9	2676.7	2917.3	2632.9
44°	5423.5	5405.5	5155.1	4600.9	4363.4	4321.7	3999.1	3109.0	2680.3	2914.3	2627.8
44.5°	5419.4	5421.3	5169.2	4612.3	4347.0	4289.3	3975.6	3110.9	2686.1	2910.7	2626.0



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CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	5411.8	5412.9	5180.7	4618.9	4334.0	4263.9	3958.5	3109.9	2692.7	2906.9	2624.1
45.5°	5379.3	5409.4	5182.5	4621.6	4320.1	4238.5	3940.6	3111.9	2694.8	2903.9	2617.1
46°	5345.9	5380.5	5175.7	4622.8	4310.7	4217.9	3924.5	3116.6	2695.3	2896.9	2611.6
46.5°	5287.2	5343.3	5167.1	4619.0	4303.4	4195.4	3910.1	3121.6	2693.7	2889.4	2603.8
47°	5237.1	5286.8	5140.4	4613.9	4297.2	4165.4	3896.4	3125.7	2685.8	2881.9	2595.1
47.5°	5180.8	5233.4	5110.5	4600.0	4291.2	4128.6	3881.2	3131.2	2676.6	2872.6	2587.5
48°	5143.3	5198.9	5061.7	4578.4	4279.7	4094.4	3863.8	3133.0	2664.3	2862.4	2580.0
48.5°	5097.3	5165.6	5020.0	4557.6	4262.5	4061.1	3844.0	3131.4	2650.5	2852.9	2569.3
49°	5036.9	5120.8	4968.4	4536.0	4243.9	4027.9	3821.5	3133.5	2637.1	2842.9	2556.6
49.5°	4967.1	5064.8	4932.5	4509.5	4226.7	3994.3	3799.6	3131.2	2618.3	2831.0	2546.5
50°	4897.8	4988.1	4894.2	4479.3	4203.1	3964.8	3779.3	3131.7	2599.6	2817.6	2533.8
50.5°	4843.2	4920.0	4848.1	4443.3	4181.1	3934.0	3761.0	3131.5	2579.2	2805.0	2521.6
51°	4796.9	4850.0	4785.4	4407.3	4154.4	3898.8	3738.2	3125.1	2556.6	2789.7	2508.1
51.5°	4756.8	4796.1	4728.7	4365.9	4122.8	3862.8	3713.8	3118.3	2531.8	2773.1	2493.8
52°	4715.7	4760.9	4669.7	4327.0	4086.9	3827.6	3687.6	3109.9	2507.7	2754.7	2475.5
52.5°	4678.8	4728.5	4609.5	4287.3	4048.8	3790.8	3661.5	3097.8	2481.8	2739.7	2455.6
53°	4628.0	4689.6	4565.1	4253.2	4010.1	3749.3	3632.7	3083.0	2454.0	2718.7	2435.5
53.5°	4576.9	4631.6	4531.8	4220.1	3968.7	3706.9	3600.3	3068.3	2427.3	2694.4	2415.3
54°	4530.8	4577.6	4508.3	4174.5	3931.3	3666.8	3567.1	3049.8	2399.0	2670.2	2397.4
54.5°	4479.0	4520.2	4468.5	4134.7	3895.5	3624.9	3528.1	3029.9	2370.6	2636.7	2375.8
55°	4412.8	4456.6	4406.1	4099.0	3856.2	3585.7	3486.1	3004.9	2337.5	2602.8	2348.3
55.5°	4332.3	4379.3	4339.8	4064.3	3818.1	3544.1	3443.8	2969.3	2305.2	2570.5	2321.2
56°	4248.7	4298.9	4281.4	4030.6	3773.4	3503.3	3401.4	2929.0	2274.5	2536.4	2294.5
56.5°	4155.2	4208.5	4216.3	3993.2	3734.1	3462.4	3357.5	2886.0	2242.1	2500.3	2268.6
57°	4080.2	4120.2	4137.3	3944.6	3698.5	3425.4	3307.2	2840.2	2208.2	2463.5	2245.9
57.5°	4011.4	4050.3	4058.5	3888.0	3666.2	3387.0	3255.6	2798.6	2174.9	2424.4	2221.9
58°	3936.9	3991.6	3977.5	3824.5	3632.5	3351.2	3201.7	2758.0	2141.6	2386.3	2197.4
58.5°	3865.0	3929.5	3901.6	3757.3	3594.7	3314.3	3147.1	2715.7	2105.8	2347.2	2176.2
59°	3783.4	3860.5	3829.6	3691.0	3542.1	3274.4	3094.8	2667.0	2071.4	2310.5	2155.5
59.5°	3690.6	3778.6	3761.6	3624.0	3481.9	3232.9	3044.4	2619.4	2038.8	2270.0	2126.5
60°	3582.6	3684.3	3693.2	3564.3	3420.6	3188.6	2991.1	2572.1	2003.8	2227.5	2099.0
60.5°	3478.4	3577.4	3613.8	3503.3	3357.8	3137.4	2937.4	2523.8	1968.6	2186.5	2066.2
61°	3375.2	3473.7	3522.2	3444.1	3298.8	3085.8	2882.0	2473.8	1931.9	2145.0	2033.2
61.5°	3278.7	3371.6	3428.5	3379.0	3237.5	3035.1	2830.1	2425.3	1897.1	2107.3	2007.2
62°	3196.2	3283.7	3334.3	3312.2	3171.1	2980.9	2776.3	2375.2	1863.4	2069.6	1981.2
62.5°	3123.0	3204.6	3241.7	3231.8	3108.5	2915.8	2725.6	2324.1	1829.8	2029.3	1945.5
63°	3070.6	3133.9	3156.8	3153.1	3050.5	2853.7	2675.6	2274.6	1798.3	1988.4	1913.0
63.5°	3021.3	3073.5	3080.2	3075.6	2988.1	2791.3	2626.7	2228.5	1762.9	1948.5	1877.7
64°	2967.3	3022.7	3008.4	2997.8	2921.3	2726.3	2574.1	2181.7	1726.4	1906.4	1842.4
64.5°	2908.7	2971.1	2945.0	2923.4	2853.4	2655.8	2523.6	2138.3	1690.0	1866.1	1804.5
65°	2850.5	2911.6	2893.8	2860.6	2787.4	2587.8	2474.0	2093.8	1650.9	1824.2	1765.6
65.5°	2771.4	2832.8	2833.7	2798.6	2723.4	2518.6	2422.7	2046.0	1614.0	1782.6	1729.6
66°	2681.9	2752.5	2769.5	2738.7	2659.9	2450.5	2367.3	1995.7	1575.6	1744.5	1692.0
66.5°	2596.0	2661.4	2691.2	2681.8	2598.0	2383.2	2303.2	1947.7	1540.1	1705.5	1652.3
67°	2516.0	2570.3	2617.2	2619.3	2537.5	2321.4	2235.8	1900.3	1502.6	1666.8	1609.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2441.8	2491.2	2538.4	2548.3	2474.2	2263.1	2166.0	1852.0	1464.9	1625.2	1575.7
68°	2375.4	2421.8	2456.6	2475.7	2410.3	2201.8	2100.2	1805.2	1428.1	1584.9	1535.4
68.5°	2310.5	2348.9	2374.1	2402.6	2347.5	2145.4	2029.3	1755.7	1391.8	1546.1	1496.4
69°	2250.3	2278.7	2299.0	2328.5	2282.0	2091.3	1960.7	1710.3	1353.2	1506.6	1454.7
69.5°	2183.5	2216.5	2226.7	2251.8	2212.6	2037.0	1891.5	1664.0	1311.6	1462.5	1411.3
70°	2109.1	2143.5	2155.6	2180.8	2142.5	1975.0	1825.1	1617.0	1271.6	1420.1	1374.3
70.5°	2036.1	2071.9	2088.7	2112.8	2073.8	1912.2	1765.0	1569.8	1230.2	1378.0	1328.9
71°	1965.2	2000.3	2019.8	2046.8	2001.4	1850.5	1702.7	1523.5	1191.3	1333.3	1286.5
71.5°	1894.5	1926.5	1946.0	1974.9	1928.0	1784.6	1643.1	1481.5	1154.5	1292.5	1241.6
72°	1830.8	1862.2	1872.3	1903.1	1858.9	1719.2	1585.3	1437.0	1117.8	1251.2	1196.4
72.5°	1767.4	1797.2	1808.7	1832.8	1792.0	1652.8	1525.9	1392.7	1080.9	1210.3	1154.9
73°	1697.9	1734.4	1746.5	1765.1	1722.6	1588.4	1469.1	1351.9	1045.5	1169.1	1113.1
73.5°	1627.7	1665.7	1679.5	1695.3	1656.5	1525.7	1415.9	1308.1	1008.6	1128.6	1070.3
74°	1559.1	1596.8	1609.1	1627.1	1591.5	1462.8	1367.2	1259.8	970.1	1088.4	1028.6
74.5°	1479.6	1516.9	1539.4	1558.3	1525.9	1402.6	1318.6	1203.4	933.7	1044.8	989.3
75°	1402.5	1434.0	1463.8	1489.5	1463.5	1344.6	1270.9	1149.6	897.5	1004.8	950.3
75.5°	1326.6	1357.8	1391.3	1420.8	1401.2	1288.2	1220.4	1094.3	855.7	960.4	909.7
76°	1250.6	1282.4	1317.5	1348.0	1337.2	1228.7	1168.3	1034.7	813.7	916.3	870.0
76.5°	1178.3	1209.0	1244.8	1277.4	1274.0	1170.7	1113.7	975.2	771.0	873.5	833.0
77°	1110.0	1140.6	1178.1	1209.4	1211.2	1115.2	1059.9	922.0	733.4	832.4	794.5
77.5°	1042.0	1073.8	1111.1	1142.1	1145.1	1061.0	1004.9	869.6	696.4	788.6	756.5
78°	977.6	1006.3	1047.1	1076.3	1084.0	1004.5	948.7	821.2	657.7	746.4	716.6
78.5°	917.5	945.1	983.2	1013.2	1022.3	948.8	895.3	773.3	622.6	703.0	679.1
79°	859.5	886.2	917.8	951.6	959.6	896.0	849.1	730.3	588.2	661.2	642.5
79.5°	800.4	826.8	857.6	889.7	897.3	843.1	804.0	687.7	553.8	620.9	617.5
80°	750.8	773.5	799.8	830.8	839.1	790.5	757.8	648.5	519.3	582.8	580.8
80.5°	702.1	724.9	742.6	773.0	783.4	743.2	715.6	611.1	484.9	544.7	543.5
81°	656.3	675.0	691.5	717.1	729.8	696.8	672.2	574.2	450.5	506.6	506.1
81.5°	616.2	631.4	643.0	665.5	676.6	648.6	627.6	537.3	420.1	468.5	468.7
82°	577.2	591.2	600.2	618.1	625.5	599.2	586.0	500.4	390.3	430.4	432.2
82.5°	538.2	551.2	560.5	577.8	584.4	558.1	544.4	463.6	360.0	396.5	397.8
83°	499.1	511.2	520.8	538.1	543.6	517.1	502.9	428.3	329.2	362.8	365.8
83.5°	460.1	471.3	481.1	498.3	502.8	476.1	461.4	396.8	300.5	330.2	337.3
84°	421.1	431.3	441.4	458.6	462.0	435.1	419.9	366.0	273.3	297.6	308.1
84.5°	388.5	398.8	406.9	418.8	421.1	401.1	384.9	334.7	247.4	266.2	278.5
85°	357.3	368.1	374.9	385.8	388.7	370.3	352.1	306.3	222.5	235.9	250.2
85.5°	330.6	340.9	346.1	356.0	360.0	342.1	320.9	278.6	200.1	208.4	224.2
86°	306.2	315.3	319.9	329.0	333.3	316.5	293.8	253.0	180.1	182.0	199.8
86.5°	284.0	292.3	295.8	304.0	308.5	293.2	269.2	228.4	160.1	156.8	175.8
87°	264.2	272.3	274.8	280.8	285.4	271.8	248.1	205.9	141.6	134.4	154.2
87.5°	247.1	253.8	256.3	260.8	264.8	252.7	229.1	188.3	125.9	114.4	134.2
88°	231.4	236.2	239.1	241.8	245.7	235.1	211.0	171.6	113.1	96.7	116.1
88.5°	218.1	222.2	223.6	225.7	228.7	219.2	196.2	158.3	102.5	81.8	102.0
89°	206.1	209.4	210.0	211.4	212.9	205.0	183.0	146.6	93.9	70.3	90.9
89.5°	195.3	197.8	197.6	197.9	198.9	192.5	171.2	137.1	86.6	60.9	82.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	186.1	187.7	186.6	186.2	186.5	181.1	160.9	128.4	80.8	55.8	74.9
90.5°	177.9	179.3	177.6	176.5	176.1	171.6	151.8	121.7	76.3	50.8	68.7
91°	170.7	171.8	169.3	167.4	166.7	162.3	143.7	116.1	72.7	45.8	63.9
91.5°	164.8	165.9	162.6	159.6	157.9	153.4	137.1	111.2	69.5	40.7	61.5
92°	159.4	159.9	155.9	152.1	148.9	146.1	131.4	107.3	67.0	38.1	59.3
92.5°	153.3	153.9	149.1	144.5	142.1	139.9	126.7	104.1	65.0	36.4	57.1
93°	147.6	148.0	142.9	138.4	136.7	134.4	122.4	101.1	63.5	35.4	54.9
93.5°	143.6	143.9	138.6	134.1	131.8	129.5	118.8	98.6	62.7	34.7	52.7
94°	140.8	141.0	135.1	130.2	127.4	125.3	115.6	96.4	61.8	34.3	52.1
94.5°	138.4	138.6	132.4	127.0	123.5	121.6	112.6	94.3	61.0	34.1	51.6
95°	136.6	136.7	130.2	124.1	120.2	118.3	109.8	92.3	60.1	34.0	50.6
95.5°	134.8	135.0	128.2	122.0	117.5	115.5	107.6	90.6	59.3	34.0	50.1
96°	132.8	133.0	126.5	120.0	115.3	112.9	105.4	89.0	58.8	33.7	49.9
96.5°	131.5	131.7	125.0	118.2	113.1	110.7	103.3	87.5	58.4	33.9	49.7
97°	130.7	130.9	124.0	116.8	111.2	108.6	101.3	86.2	58.3	34.3	49.5
97.5°	129.9	130.0	123.1	115.6	109.7	106.5	99.4	84.9	58.4	34.7	49.2
98°	129.0	129.2	122.3	114.5	108.2	104.6	97.6	84.0	58.5	35.1	48.8
98.5°	128.0	128.4	121.6	113.5	106.8	103.0	96.1	83.2	58.6	35.5	48.4
99°	127.4	127.6	120.9	112.5	105.7	101.5	94.7	82.6	58.8	35.9	48.0
99.5°	126.6	126.8	120.1	111.7	104.7	100.1	93.6	82.1	59.0	36.4	47.6
100°	125.6	125.9	119.3	111.0	103.7	98.9	92.6	81.7	59.3	36.9	47.2
100.5°	124.6	125.0	118.7	110.1	102.7	97.9	91.7	81.3	59.5	37.4	46.8
101°	123.6	124.2	117.6	108.9	101.9	97.1	90.9	81.2	59.8	37.9	46.5
101.5°	121.3	122.2	116.1	108.1	101.5	96.5	90.4	81.0	60.1	38.4	46.3
102°	119.5	120.6	115.2	107.9	101.4	96.0	89.9	81.0	60.5	39.0	46.1
102.5°	118.6	119.9	115.2	108.0	101.2	95.6	89.4	80.9	60.9	39.6	46.0
103°	119.0	120.3	115.6	108.0	101.0	95.2	88.9	80.8	61.5	40.2	46.0
103.5°	118.9	120.4	115.5	107.9	100.8	94.8	88.5	80.8	62.0	40.8	46.0
104°	118.4	119.9	115.1	107.6	100.5	94.4	88.1	80.7	62.5	41.4	46.2
104.5°	117.6	119.3	114.7	107.3	100.2	94.1	87.6	80.7	63.0	42.1	46.3
105°	116.9	118.8	114.3	107.1	100.1	93.8	87.3	80.7	63.6	42.7	46.5
105.5°	116.2	118.2	113.9	106.9	100.0	93.5	87.0	80.6	64.1	43.3	46.8
106°	115.5	117.6	113.5	106.7	99.9	93.2	86.6	80.6	64.6	43.8	47.0
106.5°	115.0	117.0	113.1	106.5	99.7	92.9	86.3	80.5	65.0	44.4	47.4
107°	114.5	116.5	112.7	106.3	99.5	92.6	86.0	80.4	65.4	45.0	47.7
107.5°	114.1	116.0	112.2	105.9	99.3	92.3	85.6	80.3	65.8	45.6	48.0
108°	113.5	115.3	111.7	105.5	99.1	92.0	85.3	80.3	66.3	46.1	48.2
108.5°	112.8	114.5	111.2	105.0	98.7	91.6	85.1	80.4	66.8	46.6	48.5
109°	112.0	113.7	110.5	104.6	98.4	91.3	84.9	80.5	67.3	47.1	48.9
109.5°	111.1	112.8	109.8	104.2	98.1	91.1	84.7	80.8	67.8	47.6	49.2
110°	110.0	111.8	109.2	103.6	97.9	90.8	84.7	81.0	68.3	48.1	49.5
110.5°	109.0	110.9	108.5	103.2	97.6	90.6	84.5	81.2	68.8	48.6	49.8
111°	108.1	110.1	107.8	102.7	97.3	90.4	84.4	81.4	69.3	49.1	50.0
111.5°	107.2	109.1	107.1	102.2	97.0	90.3	84.3	81.6	69.7	49.6	50.3
112°	106.3	108.3	106.5	101.8	96.6	90.1	84.3	81.9	70.2	50.1	50.5



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 CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	105.3	107.4	105.9	101.3	96.2	90.0	84.2	82.1	70.6	50.5	50.8
113°	104.5	106.6	105.2	100.7	95.8	89.9	84.3	82.3	71.0	50.9	51.0
113.5°	103.8	106.0	104.6	100.1	95.6	89.8	84.3	82.5	71.4	51.3	51.2
114°	103.2	105.4	103.9	99.6	95.4	89.7	84.3	82.7	71.8	51.6	51.5
114.5°	102.5	104.8	103.2	99.2	95.3	89.6	84.3	82.9	72.1	52.0	51.7
115°	101.9	104.1	102.6	98.9	95.1	89.5	84.3	83.1	72.4	52.3	51.9
115.5°	101.2	103.3	101.9	98.7	94.8	89.3	84.3	83.3	72.7	52.6	52.0
116°	100.5	102.6	101.4	98.4	94.7	89.3	84.3	83.4	72.9	52.9	52.1
116.5°	100.0	102.1	101.1	98.3	94.6	89.2	84.2	83.5	73.2	53.0	52.2
117°	99.6	101.7	100.8	98.0	94.4	89.1	84.2	83.5	73.4	53.2	52.3
117.5°	99.3	101.2	100.5	97.9	94.3	89.0	84.3	83.6	73.6	53.3	52.4
118°	99.1	100.9	100.3	97.8	94.2	88.9	84.2	83.6	73.6	53.3	52.4
118.5°	98.9	100.6	100.2	97.7	94.0	88.9	84.2	83.6	73.6	53.2	52.5
119°	98.8	100.4	100.1	97.7	93.9	88.9	84.2	83.6	73.5	53.0	52.6
119.5°	98.8	100.3	100.1	97.5	93.7	88.8	84.3	83.6	73.4	52.9	52.7
120°	98.9	100.3	100.2	97.5	93.6	88.8	84.3	83.5	73.3	52.7	52.8
120.5°	99.0	100.4	100.3	97.4	93.5	88.8	84.4	83.6	73.2	52.6	52.9
121°	99.2	100.4	100.2	97.3	93.4	88.8	84.4	83.6	73.0	52.4	52.9
121.5°	99.3	100.5	100.2	97.3	93.4	88.9	84.6	83.6	72.8	52.2	52.9
122°	99.4	100.6	100.3	97.2	93.4	89.0	84.7	83.7	72.6	51.9	52.9
122.5°	99.6	100.7	100.3	97.3	93.3	89.1	84.8	83.7	72.3	51.6	52.8
123°	99.8	100.9	100.4	97.3	93.4	89.2	84.9	83.7	72.0	51.3	52.8
123.5°	100.0	101.0	100.6	97.2	93.3	89.3	85.1	83.7	71.6	51.0	52.7
124°	100.1	101.2	100.7	97.1	93.4	89.5	85.3	83.7	71.3	50.7	52.6
124.5°	100.4	101.4	100.9	97.0	93.4	89.7	85.4	83.8	70.9	50.4	52.5
125°	100.6	101.6	101.0	97.0	93.5	89.9	85.7	83.9	70.6	50.1	52.4
125.5°	100.9	101.8	101.1	96.9	93.6	90.1	86.0	84.1	70.2	49.8	52.3
126°	101.1	102.1	101.2	96.8	93.7	90.3	86.3	84.2	69.9	49.5	52.2
126.5°	101.4	102.2	101.3	96.7	93.8	90.6	86.6	84.4	69.6	49.2	52.1
127°	101.4	102.4	101.4	96.7	94.0	90.9	87.0	84.6	69.4	49.1	52.1
127.5°	101.4	102.5	101.5	96.6	94.1	91.2	87.4	84.9	69.2	48.9	52.1
128°	101.5	102.6	101.6	96.5	94.3	91.4	87.8	85.1	69.1	48.8	52.1
128.5°	101.5	102.7	101.6	96.5	94.5	91.7	88.2	85.4	68.9	48.8	52.2
129°	101.5	102.8	101.6	96.4	94.6	92.0	88.7	85.7	68.8	48.8	52.3
129.5°	101.5	102.8	101.7	96.3	94.7	92.2	89.2	85.9	68.8	48.9	52.5
130°	101.4	102.7	101.7	96.3	94.8	92.4	89.6	86.3	68.7	48.9	52.6
130.5°	101.3	102.7	101.7	96.2	94.9	92.6	90.2	86.6	68.7	49.1	52.8
131°	101.2	102.7	101.7	96.0	95.0	92.8	90.6	87.0	68.7	49.2	53.0
131.5°	101.1	102.6	101.7	95.9	95.0	93.0	91.2	87.3	68.8	49.4	53.1
132°	101.0	102.5	101.7	95.7	95.0	93.2	91.6	87.6	68.8	49.6	53.3
132.5°	100.7	102.4	101.5	95.5	95.0	93.2	92.1	87.8	68.9	49.8	53.4
133°	100.3	102.1	101.4	95.3	94.8	93.3	92.5	88.1	68.9	50.0	53.5
133.5°	99.9	101.8	101.1	95.0	94.5	93.4	92.8	88.3	68.9	50.2	53.7
134°	99.4	101.5	100.9	94.7	94.3	93.4	93.1	88.5	68.9	50.3	53.8
134.5°	98.7	101.1	100.5	94.4	93.9	93.4	93.3	88.7	68.9	50.5	53.9



REPORT NUMBER: P973042
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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	98.1	100.7	100.2	94.1	93.4	93.4	93.5	88.8	68.9	50.6	53.9
135.5°	97.3	100.2	99.8	93.8	93.0	93.3	93.6	88.9	68.8	50.8	54.0
136°	96.6	99.7	99.3	93.4	92.5	93.2	93.6	88.9	68.8	50.9	54.0
136.5°	95.8	99.1	98.8	93.2	92.0	93.1	93.6	88.9	68.7	51.0	54.1
137°	94.9	98.4	98.2	92.7	91.4	92.8	93.5	88.9	68.5	51.1	54.1
137.5°	94.0	97.6	97.6	92.3	90.7	92.6	93.3	88.7	68.3	51.2	54.0
138°	92.9	96.8	97.0	91.8	90.0	92.2	93.1	88.5	68.1	51.3	53.9
138.5°	91.9	96.0	96.4	90.6	89.3	91.7	92.7	88.2	67.9	51.3	53.8
139°	90.9	95.1	95.7	90.0	88.6	91.2	92.3	87.9	67.6	51.3	53.6
139.5°	90.2	94.3	94.8	89.6	87.9	90.6	91.9	87.5	67.2	51.3	53.4
140°	89.3	93.5	93.9	89.1	87.2	90.0	91.3	86.9	66.8	51.2	53.1
140.5°	88.5	92.4	92.6	88.6	86.5	89.3	90.6	86.3	66.4	51.1	52.8
141°	87.4	91.2	91.1	88.2	85.9	88.5	89.8	85.7	65.8	50.9	52.4
141.5°	86.2	90.1	90.3	87.6	85.2	87.5	89.0	84.8	65.2	50.7	51.9
142°	84.9	88.4	89.5	87.1	84.4	86.6	88.1	83.9	64.6	50.4	51.5
142.5°	82.2	87.2	88.7	86.5	83.7	85.6	87.1	83.0	63.8	50.1	50.9
143°	81.4	86.3	87.7	85.7	82.9	84.5	86.0	81.9	63.0	49.7	50.3
143.5°	80.9	85.4	87.0	85.0	82.2	83.4	84.8	80.8	62.2	49.3	49.7
144°	80.2	84.5	86.1	84.3	81.5	82.2	83.6	79.5	61.3	48.8	49.0
144.5°	79.6	83.6	85.2	83.5	80.7	81.1	82.4	78.3	60.3	48.2	48.3
145°	79.0	82.6	84.3	82.7	79.9	79.9	81.1	76.9	59.3	47.7	47.5
145.5°	78.2	81.7	83.3	81.8	79.2	78.6	79.7	75.5	58.2	47.0	46.7
146°	77.5	80.7	82.4	80.8	78.2	77.4	78.3	73.9	57.0	46.3	45.9
146.5°	76.7	79.6	81.4	79.7	77.2	76.1	76.8	72.3	55.9	45.6	45.0
147°	75.9	78.5	80.4	78.6	76.1	74.9	75.3	70.7	54.6	44.7	44.0
147.5°	75.1	77.5	79.3	77.6	75.1	73.6	73.8	69.0	53.3	43.9	43.1
148°	74.3	76.3	78.1	76.4	73.9	72.4	72.2	67.3	52.0	43.0	42.1
148.5°	73.4	75.2	77.0	75.2	72.7	71.1	70.6	65.4	50.6	42.1	41.1
149°	72.5	74.1	75.8	73.9	71.6	69.7	68.9	63.5	49.2	41.2	40.0
149.5°	71.5	72.8	74.6	72.6	70.2	68.4	67.1	61.7	47.8	40.2	39.0
150°	70.6	71.5	73.3	71.3	69.0	67.0	65.3	59.9	46.3	39.2	37.9
150.5°	69.6	70.3	72.1	69.9	67.6	65.5	63.6	58.1	44.9	38.1	36.8
151°	68.6	69.1	70.7	68.6	66.3	64.1	61.8	56.3	43.4	37.0	35.7
151.5°	67.5	67.7	69.1	67.1	64.9	63.3	60.1	54.5	42.0	36.0	34.6
152°	66.3	66.3	67.6	65.7	63.5	61.8	58.3	52.5	40.4	34.9	33.4
152.5°	65.2	64.9	66.1	64.3	62.1	60.3	56.5	50.5	39.0	33.7	32.3
153°	63.9	63.5	64.6	62.5	60.7	58.7	54.8	48.5	37.5	32.6	31.2
153.5°	63.4	62.2	63.3	61.2	59.2	57.2	52.7	46.5	36.0	31.5	30.1
154°	62.2	61.0	61.8	60.0	57.8	55.6	50.7	44.6	34.6	30.4	29.0
154.5°	60.9	59.7	60.4	58.8	56.4	54.0	48.7	42.7	33.1	29.3	27.9
155°	59.7	58.5	59.0	57.6	54.8	52.2	46.6	40.7	31.7	28.2	26.7
155.5°	58.5	57.3	57.6	56.1	53.2	50.3	44.6	38.8	30.3	27.1	25.7
156°	57.2	55.9	56.1	54.5	51.6	48.2	42.6	37.0	29.0	26.0	24.6
156.5°	55.9	54.5	54.5	52.8	50.1	46.0	40.5	35.1	27.6	24.9	23.6
157°	54.6	53.1	53.0	51.2	48.5	43.9	38.5	33.4	26.3	23.8	22.5



REPORT NUMBER: P973042
 CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	53.3	51.7	51.3	49.5	46.8	41.8	36.5	31.6	25.0	22.7	21.5
158°	51.9	50.2	49.6	47.9	45.3	39.7	34.5	29.9	23.7	21.7	20.5
158.5°	50.4	48.7	47.9	46.3	43.6	37.5	32.5	28.2	22.5	20.7	19.6
159°	48.9	47.2	46.4	44.7	41.4	35.3	30.5	26.6	21.3	19.7	18.6
159.5°	47.3	45.7	44.8	43.0	38.9	33.2	28.5	25.0	20.1	18.7	17.7
160°	45.9	44.2	43.2	41.4	36.6	31.2	26.8	23.5	19.0	17.7	16.7
160.5°	44.4	42.8	41.7	39.7	34.3	29.1	25.2	22.0	17.9	16.8	15.9
161°	42.9	41.3	40.1	37.8	31.9	27.1	23.5	20.5	16.8	15.8	15.0
161.5°	41.5	39.9	38.5	35.2	29.5	25.1	21.9	19.1	15.7	14.9	14.1
162°	40.0	38.4	36.9	32.6	27.3	23.0	20.4	17.8	14.7	14.0	13.2
162.5°	38.4	36.9	34.7	30.0	25.0	21.0	18.9	16.5	13.7	13.1	12.4
163°	36.7	35.1	32.0	27.6	22.9	18.9	17.5	15.2	12.8	12.3	11.6
163.5°	34.0	32.2	29.3	25.2	20.8	16.9	16.1	14.0	11.8	11.5	10.9
164°	31.1	29.5	26.6	23.0	18.9	15.4	14.8	12.9	11.0	10.7	10.2
164.5°	28.1	26.8	24.1	20.8	16.8	14.1	13.5	11.8	10.1	10.0	9.5
165°	25.3	24.1	21.7	18.9	14.8	12.9	12.3	10.8	9.3	9.3	8.9
165.5°	22.6	21.6	19.5	16.9	12.7	11.8	11.2	9.9	8.6	8.6	8.2
166°	20.1	19.4	17.5	14.9	10.8	10.7	10.2	9.0	7.9	8.0	7.7
166.5°	17.9	17.2	15.4	13.0	9.9	9.7	9.2	8.2	7.3	7.4	7.1
167°	15.7	15.2	13.4	11.0	9.3	8.8	8.3	7.4	6.7	6.8	6.6
167.5°	13.6	13.1	11.3	8.8	8.7	8.0	7.4	6.7	6.1	6.3	6.1
168°	11.3	10.9	9.1	8.1	8.1	7.4	6.7	6.1	5.6	5.7	5.6
168.5°	8.9	8.6	7.3	7.5	7.5	6.9	6.2	5.5	5.0	5.2	5.1
169°	6.8	6.9	6.8	7.0	7.0	6.5	5.8	4.9	4.5	4.7	4.7
169.5°	6.5	6.5	6.4	6.5	6.5	6.1	5.3	4.3	4.0	4.2	4.3
170°	6.1	6.1	6.1	6.2	6.2	5.7	4.9	4.1	3.8	4.0	4.2
170.5°	5.8	5.8	5.7	5.8	5.8	5.3	4.7	4.0	3.8	4.0	4.2
171°	5.5	5.5	5.4	5.5	5.4	5.0	4.5	4.0	3.9	4.0	4.3
171.5°	5.3	5.2	5.2	5.2	5.1	4.8	4.4	3.9	3.9	4.1	4.3
172°	5.0	5.0	5.0	4.9	4.8	4.6	4.3	3.9	4.0	4.2	4.4
172.5°	4.8	4.9	4.8	4.7	4.6	4.4	4.2	3.9	4.1	4.3	4.5
173°	4.7	4.7	4.7	4.5	4.4	4.3	4.1	4.0	4.2	4.4	4.6
173.5°	4.5	4.6	4.5	4.4	4.3	4.2	4.1	4.0	4.2	4.4	4.7
174°	4.4	4.4	4.3	4.2	4.2	4.1	4.1	4.1	4.3	4.5	4.7
174.5°	4.2	4.2	4.1	4.1	4.0	4.0	4.0	4.1	4.3	4.5	4.7
175°	4.1	4.1	4.0	3.9	3.9	4.0	3.9	4.1	4.3	4.5	4.7
175.5°	4.0	4.0	3.9	3.8	3.8	3.9	4.0	4.1	4.3	4.6	4.7
176°	3.9	3.8	3.8	3.8	3.8	3.8	4.0	4.1	4.3	4.6	4.7
176.5°	3.8	3.8	3.8	3.7	3.7	3.8	4.0	4.1	4.3	4.6	4.8
177°	3.8	3.8	3.7	3.7	3.7	3.8	4.0	4.1	4.3	4.5	4.7
177.5°	3.8	3.8	3.7	3.7	3.7	3.8	4.0	4.1	4.3	4.5	4.7
178°	3.8	3.8	3.8	3.7	3.7	3.8	3.9	4.1	4.3	4.5	4.7
178.5°	3.9	3.9	3.8	3.7	3.7	3.8	3.9	4.1	4.3	4.4	4.6
179°	3.9	3.9	3.8	3.8	3.8	3.8	4.0	4.1	4.3	4.4	4.6
179.5°	4.0	4.0	3.9	3.8	3.8	3.9	4.0	4.1	4.3	4.4	4.6



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CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1



REPORT NUMBER: P973042

CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1
0.5°	3881.7	3872.2	3865.6	3863.5	3865.5	3864.1	3864.2	3838.3	3837.3	3839.6	3844.4
1°	3868.0	3860.1	3864.6	3871.7	3882.4	3890.0	3892.9	3833.1	3831.5	3830.6	3829.1
1.5°	3849.8	3856.5	3880.6	3908.1	3933.1	3947.2	3948.6	3882.8	3877.9	3871.1	3863.5
2°	3847.4	3874.2	3912.6	3950.2	3977.8	3992.6	4000.5	3940.7	3933.4	3925.3	3913.4
2.5°	3846.4	3898.4	3950.6	3984.6	4004.7	4007.1	4007.0	3969.1	3962.5	3960.6	3954.4
3°	3855.1	3920.2	3969.6	3995.0	3990.5	3968.7	3955.2	3946.7	3947.3	3958.8	3964.1
3.5°	3862.7	3938.1	3976.0	3966.5	3927.7	3890.1	3875.1	3866.6	3873.7	3893.6	3937.4
4°	3875.2	3943.6	3957.2	3901.7	3847.4	3829.7	3831.7	3803.6	3802.4	3819.6	3863.2
4.5°	3881.6	3939.9	3915.1	3831.2	3808.2	3813.4	3829.1	3788.3	3782.9	3785.9	3803.1
5°	3886.1	3922.4	3846.2	3786.3	3798.1	3824.0	3837.9	3804.9	3792.8	3782.2	3777.4
5.5°	3881.3	3890.9	3786.2	3769.0	3801.2	3811.0	3802.3	3788.5	3787.8	3787.8	3781.7
6°	3872.9	3842.9	3752.0	3765.4	3779.7	3740.6	3696.5	3707.7	3716.9	3758.1	3785.5
6.5°	3864.3	3788.5	3731.0	3752.9	3713.0	3617.5	3554.4	3574.3	3594.9	3669.0	3748.8
7°	3850.2	3740.7	3721.5	3712.3	3599.2	3479.0	3432.1	3441.7	3460.6	3538.1	3668.0
7.5°	3826.9	3705.8	3702.4	3632.3	3468.4	3379.5	3375.6	3361.0	3360.5	3411.7	3545.5
8°	3793.4	3679.8	3673.1	3530.6	3369.6	3344.6	3366.6	3346.7	3337.7	3336.3	3422.1
8.5°	3763.9	3651.7	3618.2	3418.1	3312.2	3332.9	3334.5	3332.1	3333.6	3320.7	3338.2
9°	3721.9	3629.5	3549.6	3326.9	3294.0	3291.4	3241.2	3252.3	3274.0	3308.9	3317.2
9.5°	3687.7	3605.4	3462.2	3270.5	3271.3	3191.0	3095.2	3124.0	3155.0	3251.3	3313.9
10°	3655.2	3575.0	3372.3	3239.1	3201.2	3049.5	2947.7	2962.7	3000.5	3124.8	3286.0
10.5°	3624.0	3539.8	3294.3	3216.8	3091.3	2910.0	2847.6	2849.6	2865.4	2971.3	3210.8
11°	3602.5	3494.2	3228.1	3173.7	2966.1	2814.8	2794.9	2790.2	2792.2	2842.2	3069.4
11.5°	3580.3	3442.7	3178.2	3095.4	2846.4	2759.4	2732.4	2739.5	2747.1	2775.6	2924.2
12°	3560.8	3387.9	3149.5	2998.5	2759.2	2701.3	2632.2	2647.1	2677.9	2736.3	2817.8
12.5°	3541.5	3326.2	3121.3	2897.5	2709.0	2607.8	2498.4	2515.4	2563.5	2678.0	2761.9
13°	3524.6	3269.2	3082.6	2790.1	2644.6	2481.1	2358.8	2366.3	2416.2	2573.0	2727.8
13.5°	3501.9	3219.0	3031.1	2709.9	2560.1	2347.9	2248.7	2247.2	2284.0	2434.4	2675.5
14°	3474.2	3173.2	2965.4	2652.7	2455.1	2236.6	2159.8	2159.0	2183.4	2294.4	2580.5
14.5°	3445.7	3131.6	2886.6	2590.5	2333.1	2143.1	2069.3	2077.5	2104.4	2190.5	2449.7
15°	3410.1	3096.9	2810.1	2522.4	2222.5	2059.3	1971.5	1975.9	2017.2	2112.4	2309.0
15.5°	3370.7	3064.0	2731.3	2443.0	2130.1	1967.4	1854.9	1853.5	1913.1	2036.3	2196.2
16°	3333.3	3031.5	2660.5	2347.4	2048.4	1862.3	1722.8	1723.0	1784.5	1943.5	2113.7
16.5°	3293.5	2994.3	2605.2	2247.0	1963.8	1742.0	1591.1	1592.4	1648.0	1832.9	2050.5
17°	3256.1	2947.7	2548.9	2159.1	1875.9	1620.8	1481.2	1478.2	1520.1	1693.5	1971.6
17.5°	3220.2	2899.1	2488.5	2071.4	1774.5	1501.9	1391.0	1422.6	1458.9	1562.3	1872.7
18°	3182.1	2848.5	2430.6	1988.5	1656.7	1403.0	1326.3	1367.0	1397.6	1451.9	1755.5
18.5°	3145.5	2787.4	2363.8	1912.1	1550.0	1329.7	1276.7	1311.4	1336.3	1392.8	1631.7
19°	3108.2	2732.1	2287.4	1833.8	1447.7	1273.1	1235.1	1255.8	1275.0	1333.7	1510.0
19.5°	3065.5	2671.3	2208.7	1745.8	1357.4	1226.8	1196.9	1200.3	1214.4	1274.6	1447.0
20°	3024.8	2606.4	2126.5	1658.3	1290.1	1189.1	1159.7	1162.8	1175.1	1215.9	1384.0
20.5°	2986.5	2541.4	2036.8	1559.2	1233.5	1150.1	1119.5	1124.9	1137.5	1179.1	1321.0
21°	2942.4	2487.5	1960.6	1464.1	1189.4	1113.5	1081.1	1085.2	1098.9	1142.5	1258.0
21.5°	2902.6	2429.9	1886.9	1382.3	1151.7	1077.0	1042.3	1045.6	1060.0	1104.3	1196.2
22°	2867.6	2381.1	1815.0	1304.0	1115.5	1038.7	1000.9	1005.5	1020.5	1067.6	1160.4



REPORT NUMBER: P973042

CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	2829.6	2339.8	1754.2	1242.2	1080.2	1000.9	961.8	966.7	981.3	1031.3	1125.8
23°	2799.5	2299.3	1689.1	1193.9	1046.4	963.9	924.5	927.7	944.0	993.8	1092.1
23.5°	2768.6	2251.9	1611.0	1150.0	1011.0	924.8	885.7	891.2	908.0	958.3	1058.8
24°	2739.9	2203.8	1538.6	1114.3	975.2	889.2	848.7	853.6	869.8	922.1	1025.5
24.5°	2708.8	2147.2	1464.3	1082.0	942.5	855.5	814.2	818.0	834.8	886.9	992.8
25°	2678.0	2080.1	1385.8	1049.3	907.0	819.3	777.4	782.5	800.1	853.6	959.8
25.5°	2646.7	2015.3	1319.9	1017.6	872.1	783.8	741.9	746.6	764.2	819.9	926.8
26°	2614.5	1943.8	1263.8	989.2	841.5	752.2	709.6	712.6	730.5	786.8	894.8
26.5°	2582.3	1877.6	1208.0	958.9	809.1	719.1	675.4	680.2	698.0	754.1	864.5
27°	2544.0	1820.8	1166.1	928.3	776.5	686.6	643.1	646.6	663.3	721.8	832.7
27.5°	2504.3	1766.0	1128.1	899.5	746.6	655.0	622.5	614.0	631.0	689.3	801.8
28°	2463.0	1716.2	1093.4	870.8	716.3	626.5	590.9	583.9	600.8	659.0	770.9
28.5°	2421.2	1670.8	1063.0	841.1	685.2	598.4	558.7	554.1	570.0	628.3	741.2
29°	2383.2	1626.4	1036.8	814.1	657.7	570.3	526.4	524.7	539.9	599.0	711.5
29.5°	2349.0	1582.5	1008.6	786.2	629.9	542.1	494.2	498.2	512.3	571.7	682.8
30°	2313.3	1539.1	983.5	757.9	603.7	514.0	468.4	472.8	485.7	544.8	654.5
30.5°	2284.9	1491.3	959.1	732.6	577.6	485.9	445.4	449.0	461.2	518.0	627.1
31°	2260.3	1444.1	931.9	706.3	551.5	461.0	422.4	426.6	438.1	493.7	600.5
31.5°	2236.4	1403.4	907.4	679.4	525.3	437.3	400.9	405.6	415.4	470.5	575.8
32°	2220.3	1360.0	883.8	655.9	499.2	416.8	382.4	386.3	394.9	448.1	552.0
32.5°	2201.9	1321.1	859.2	631.1	476.4	395.8	363.6	368.6	375.7	426.9	528.9
33°	2182.7	1289.2	838.2	608.8	454.4	376.1	346.3	351.9	357.6	407.2	506.7
33.5°	2163.9	1257.2	818.3	586.5	434.6	358.5	330.9	336.6	341.2	388.1	485.6
34°	2143.1	1230.4	795.4	564.2	415.4	341.6	316.6	322.2	325.2	369.8	465.3
34.5°	2118.6	1208.4	774.9	541.9	396.4	325.0	303.2	308.7	310.4	352.5	446.1
35°	2096.4	1188.7	756.0	519.7	379.5	310.9	291.6	296.5	297.4	336.6	427.5
35.5°	2071.8	1171.0	735.7	499.5	363.4	297.4	280.4	285.1	285.3	321.4	408.1
36°	2045.4	1157.6	717.6	479.4	346.9	284.4	269.8	274.6	273.9	307.5	390.5
36.5°	2021.8	1143.1	700.4	462.0	332.1	272.9	260.2	264.9	264.0	294.4	373.8
37°	1997.3	1129.6	681.4	444.1	318.2	262.1	251.0	255.3	254.4	282.4	357.2
37.5°	1975.0	1118.2	664.8	427.3	304.1	252.1	242.0	246.5	245.5	271.3	341.4
38°	1954.4	1104.4	649.0	411.9	291.6	243.0	233.7	238.0	237.1	261.0	326.6
38.5°	1935.8	1091.6	631.8	397.3	279.7	234.5	225.9	229.7	228.9	251.3	312.5
39°	1918.9	1080.6	617.1	382.9	268.1	226.4	218.2	222.3	221.3	242.9	299.9
39.5°	1904.0	1068.1	602.6	370.0	257.5	218.9	211.1	214.9	214.0	234.0	287.2
40°	1887.1	1055.1	588.0	356.8	247.6	211.7	204.3	208.3	207.4	226.0	275.7
40.5°	1870.0	1044.9	573.5	344.4	237.9	204.7	197.4	201.8	200.9	218.4	265.1
41°	1855.7	1032.3	558.9	333.6	229.5	198.3	191.6	195.9	194.7	211.0	255.0
41.5°	1840.6	1019.6	544.5	322.9	221.6	192.2	186.0	190.0	189.1	204.0	245.6
42°	1824.9	1008.5	531.7	311.6	213.3	186.1	180.4	184.5	183.6	197.7	237.2
42.5°	1812.0	996.3	520.0	302.3	206.1	180.7	175.2	179.2	178.3	191.6	228.9
43°	1797.7	985.5	507.0	293.1	199.6	175.5	170.0	174.1	173.1	185.8	221.1
43.5°	1782.2	974.7	494.6	283.6	192.8	170.2	164.9	169.1	168.0	180.2	213.7
44°	1769.2	963.2	483.4	274.8	186.7	165.3	160.1	164.3	163.1	174.8	206.8
44.5°	1756.8	952.3	471.2	267.1	181.1	160.5	155.7	159.6	158.4	169.9	200.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1743.2	941.1	459.9	259.0	175.4	155.8	151.1	155.5	153.8	164.7	193.8
45.5°	1731.3	929.5	449.6	251.6	170.2	151.4	147.0	151.2	149.4	159.7	187.6
46°	1720.2	919.7	438.1	244.0	165.5	147.2	143.0	147.2	145.8	155.1	182.0
46.5°	1707.3	911.2	428.1	237.0	160.6	143.2	139.0	143.6	142.1	150.4	176.4
47°	1696.2	901.2	418.9	230.4	156.0	139.1	135.2	140.0	138.4	146.5	171.3
47.5°	1684.4	892.8	409.3	223.9	151.7	135.2	131.4	136.3	134.7	142.7	166.3
48°	1670.7	885.2	401.1	217.4	147.5	131.3	127.8	132.7	131.0	138.8	161.6
48.5°	1658.1	875.5	392.7	211.8	143.5	127.7	124.2	128.9	127.5	135.0	156.7
49°	1642.1	865.2	384.0	206.2	139.5	124.1	120.5	125.3	124.1	131.2	152.3
49.5°	1624.2	856.5	376.4	200.8	135.6	120.5	116.8	121.7	120.5	127.6	148.0
50°	1609.6	845.3	369.1	195.8	131.8	117.1	113.2	118.0	117.0	124.0	144.1
50.5°	1594.8	831.8	361.2	191.2	128.2	113.9	109.9	114.6	113.6	120.6	140.2
51°	1577.3	818.7	354.2	186.5	124.4	110.6	106.5	111.1	110.3	117.3	136.3
51.5°	1563.9	805.2	348.0	182.3	121.0	107.3	103.2	107.7	107.1	113.9	132.5
52°	1548.5	791.2	341.0	178.1	117.6	104.3	100.2	104.7	104.1	110.6	128.8
52.5°	1531.4	779.6	335.4	173.9	114.1	101.3	97.4	101.5	101.0	107.3	125.1
53°	1516.2	767.5	329.7	169.9	110.8	98.2	94.5	98.4	98.1	104.0	121.7
53.5°	1496.9	753.8	323.2	166.0	107.8	95.4	92.0	95.4	95.2	100.9	118.3
54°	1476.6	740.4	317.5	162.1	104.6	92.4	89.2	92.7	92.3	97.7	115.1
54.5°	1457.0	726.9	312.1	158.3	101.5	89.6	86.5	90.0	89.7	94.7	112.0
55°	1439.3	714.7	306.3	154.6	98.7	87.0	83.9	87.3	87.0	91.8	109.1
55.5°	1422.3	702.6	301.1	151.0	95.8	84.3	81.4	84.7	84.2	88.7	106.1
56°	1406.6	689.4	296.2	147.4	92.9	81.6	78.9	82.1	81.7	85.7	103.2
56.5°	1391.6	676.6	290.9	143.8	90.2	79.0	76.6	79.7	79.1	82.8	100.3
57°	1376.8	664.4	285.3	140.1	87.4	76.4	74.3	77.4	76.6	79.9	97.3
57.5°	1365.1	653.5	280.2	136.8	84.7	73.9	72.1	75.2	74.4	77.0	94.2
58°	1350.6	642.3	273.8	133.4	82.0	71.5	69.7	72.7	72.0	74.3	91.2
58.5°	1336.7	632.6	267.7	129.9	79.2	69.0	67.1	70.2	69.5	71.6	88.3
59°	1324.0	623.2	262.1	126.4	76.3	66.6	64.2	67.5	66.9	69.2	85.3
59.5°	1311.5	612.3	256.1	123.1	73.5	64.1	61.1	64.8	64.2	66.7	82.3
60°	1300.9	601.4	250.3	119.6	70.9	61.2	58.0	61.3	61.2	64.0	79.3
60.5°	1291.5	590.5	244.2	116.2	68.3	58.2	54.9	57.3	57.6	61.2	76.4
61°	1277.1	579.6	237.7	112.9	65.9	55.3	51.8	53.5	53.7	58.3	73.6
61.5°	1256.5	570.0	231.9	109.4	63.0	52.3	48.7	50.6	50.2	55.1	71.0
62°	1238.7	559.2	226.9	106.0	60.5	49.4	45.0	46.8	47.3	51.5	68.3
62.5°	1222.3	547.6	221.8	102.7	58.0	46.3	39.9	39.0	43.0	48.0	65.5
63°	1206.8	535.1	216.5	99.3	55.5	42.9	30.3	31.2	34.4	44.8	62.4
63.5°	1189.0	521.4	210.9	96.0	52.9	38.4	19.6	23.4	25.8	39.5	59.3
64°	1169.0	507.0	204.4	92.8	50.1	30.3	8.8	15.6	17.2	31.6	56.2
64.5°	1147.5	493.2	198.2	89.5	47.2	20.2	6.9	7.8	8.6	23.7	53.0
65°	1121.7	477.6	191.5	86.3	44.0	10.2	5.2	0.2	0.3	15.8	49.3
65.5°	1097.9	462.9	184.3	83.1	39.5	2.6	3.6	0.1	0.2	7.8	44.3
66°	1072.0	448.7	178.3	79.6	31.9	1.9	1.9	0.1	0.1	0.2	36.7
66.5°	1046.1	431.9	173.3	76.4	23.6	1.3	0.2	0.1	0.1	0.2	27.9
67°	1021.1	418.2	168.3	73.3	16.4	0.7	0.1	0.1	0.1	0.2	20.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	991.2	404.8	162.8	69.8	12.6	0.2	0.1	0.1	0.2	0.2	16.9
68°	960.7	389.6	156.9	65.1	11.8	0.1	0.1	0.1	0.2	0.2	16.4
68.5°	933.9	376.5	150.5	60.8	11.4	0.1	0.1	0.2	0.2	0.2	16.1
69°	904.9	363.8	144.6	56.5	11.1	0.1	0.1	0.2	0.2	0.2	15.8
69.5°	874.9	350.4	138.9	52.2	10.9	0.1	0.1	0.2	0.2	0.2	15.5
70°	844.4	338.0	132.4	47.9	10.7	0.1	0.1	0.2	0.2	0.2	15.3
70.5°	814.6	325.9	126.3	43.6	10.5	0.2	0.1	0.2	0.2	0.2	15.0
71°	783.0	312.9	119.9	42.5	10.3	0.2	0.1	0.2	0.2	0.2	14.8
71.5°	749.3	299.4	111.9	41.5	10.2	0.2	0.2	0.2	0.2	0.2	14.6
72°	718.0	286.1	104.3	40.5	10.1	0.2	0.2	0.2	0.2	0.2	14.4
72.5°	686.0	271.5	98.0	39.6	9.9	0.2	0.2	0.2	0.2	0.2	14.2
73°	655.9	256.8	93.4	38.8	9.8	0.2	0.2	0.2	0.2	0.2	14.0
73.5°	626.2	244.9	89.9	37.9	9.7	0.2	0.2	0.2	0.2	0.2	13.8
74°	601.8	233.9	86.9	37.2	9.6	0.2	0.2	0.2	0.2	0.2	13.6
74.5°	577.4	224.0	83.6	36.4	9.5	0.2	0.2	0.2	0.2	0.2	13.3
75°	553.0	216.4	80.6	35.5	9.4	0.2	0.2	0.2	0.3	0.3	13.1
75.5°	528.7	209.2	77.9	34.7	9.2	0.2	0.2	0.3	0.3	0.3	12.8
76°	504.3	201.3	75.1	33.9	9.1	0.2	0.2	0.3	0.3	0.3	12.6
76.5°	482.8	193.7	72.5	33.0	8.9	0.2	0.2	0.3	0.3	0.3	12.4
77°	462.9	187.3	70.2	32.2	8.8	0.2	0.2	0.3	0.3	0.3	12.1
77.5°	442.9	179.6	67.7	31.3	8.6	0.2	0.2	0.3	0.3	0.3	11.9
78°	422.6	172.0	65.4	30.4	8.5	0.2	0.2	0.3	0.3	0.3	11.6
78.5°	402.0	163.8	62.8	29.5	8.3	0.2	0.2	0.3	0.3	0.3	11.4
79°	381.2	156.7	61.0	28.7	8.1	0.2	0.2	0.3	0.3	0.3	11.1
79.5°	360.6	149.9	59.3	27.8	7.9	0.2	0.2	0.3	0.3	0.3	10.9
80°	342.2	144.0	57.5	26.9	7.7	0.2	0.2	0.3	0.3	0.3	10.6
80.5°	323.4	137.9	55.7	26.0	7.5	0.3	0.3	0.3	0.4	0.4	10.4
81°	304.7	131.8	53.7	25.1	7.4	0.3	0.3	0.4	0.4	0.4	10.2
81.5°	286.3	125.7	51.6	24.1	7.2	0.3	0.3	0.4	0.4	0.4	9.9
82°	267.8	118.5	49.3	23.2	7.0	0.3	0.3	0.4	0.4	0.4	9.7
82.5°	250.6	110.8	47.0	22.3	6.8	0.3	0.3	0.4	0.4	0.4	9.5
83°	233.8	103.4	44.8	21.4	6.6	0.3	0.3	0.4	0.4	0.4	9.2
83.5°	216.3	96.8	42.4	20.5	6.5	0.3	0.3	0.4	0.5	0.5	9.0
84°	197.9	90.3	40.2	19.7	6.3	0.3	0.3	0.5	0.5	0.5	8.8
84.5°	181.3	83.7	38.0	18.8	6.1	0.3	0.3	0.5	0.5	0.5	8.6
85°	166.6	77.6	35.8	18.0	6.0	0.4	0.4	0.5	0.5	0.5	8.3
85.5°	152.9	72.0	33.9	17.2	5.8	0.4	0.4	0.5	0.5	0.5	8.1
86°	139.5	66.7	32.1	16.5	5.7	0.4	0.4	0.6	0.6	0.6	7.9
86.5°	126.7	61.8	30.4	15.9	5.5	0.4	0.4	0.6	0.6	0.6	7.7
87°	115.0	57.9	28.9	15.2	5.4	0.4	0.4	0.6	0.6	0.6	7.5
87.5°	104.8	54.0	27.4	14.6	5.2	0.4	0.4	0.6	0.6	0.7	7.3
88°	95.0	50.0	26.0	14.0	5.1	0.5	0.4	0.7	0.7	0.7	7.1
88.5°	86.7	46.1	24.7	13.5	5.0	0.5	0.5	0.7	0.7	0.7	6.9
89°	79.0	43.1	23.6	13.1	4.8	0.5	0.5	0.7	0.7	0.7	6.7
89.5°	72.6	40.3	22.6	12.6	4.7	0.5	0.5	0.8	0.8	0.8	6.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	67.1	37.9	21.7	12.1	4.5	0.5	0.5	0.8	0.8	0.8	6.2
90.5°	61.8	35.9	20.8	11.6	4.4	0.6	0.6	0.8	0.8	0.8	6.1
91°	58.7	34.1	19.9	11.2	4.3	0.6	0.6	0.8	0.9	0.9	5.9
91.5°	55.7	32.6	19.2	10.8	4.2	0.6	0.6	0.9	0.9	0.9	5.8
92°	52.7	31.3	18.5	10.5	4.1	0.6	0.6	0.9	0.9	0.9	5.7
92.5°	49.8	30.2	17.9	10.2	4.0	0.7	0.7	0.9	0.9	0.9	5.5
93°	47.9	29.3	17.5	10.0	3.9	0.7	0.7	1.0	1.0	1.0	5.4
93.5°	46.3	28.7	17.1	9.7	3.8	0.7	0.7	1.0	1.0	1.0	5.2
94°	45.0	28.3	16.8	9.5	3.7	0.7	0.7	1.0	1.0	1.0	5.1
94.5°	44.1	28.0	16.5	9.3	3.6	0.7	0.8	1.1	1.1	1.1	5.0
95°	43.4	27.6	16.1	9.1	3.6	0.8	0.8	1.1	1.1	1.1	4.9
95.5°	43.0	27.3	15.8	8.9	3.5	0.8	0.8	1.1	1.1	1.1	4.8
96°	42.5	27.0	15.5	8.8	3.4	0.8	0.8	1.2	1.2	1.2	4.7
96.5°	42.1	26.7	15.2	8.6	3.3	0.9	0.9	1.2	1.2	1.2	4.7
97°	41.6	26.4	15.0	8.5	3.2	0.9	0.9	1.2	1.2	1.2	4.6
97.5°	41.1	26.1	14.8	8.3	3.2	0.9	0.9	1.3	1.3	1.3	4.5
98°	40.5	25.7	14.5	8.2	3.1	0.9	0.9	1.3	1.3	1.3	4.5
98.5°	39.9	25.4	14.3	8.1	3.1	1.0	1.0	1.4	1.4	1.3	4.4
99°	39.2	25.0	14.1	7.9	3.0	1.0	1.0	1.4	1.4	1.4	4.3
99.5°	38.6	24.6	13.9	7.8	3.0	1.0	1.0	1.4	1.4	1.4	4.2
100°	38.0	24.2	13.6	7.8	2.9	1.0	1.1	1.5	1.5	1.5	4.2
100.5°	37.4	23.7	13.5	7.7	2.9	1.1	1.1	1.5	1.5	1.5	4.1
101°	36.9	23.3	13.3	7.6	2.9	1.1	1.1	1.5	1.5	1.5	4.1
101.5°	36.3	22.9	13.2	7.5	2.9	1.1	1.1	1.6	1.6	1.6	4.0
102°	35.8	22.6	13.1	7.4	2.8	1.2	1.2	1.6	1.6	1.6	3.9
102.5°	35.3	22.2	13.0	7.3	2.8	1.2	1.2	1.6	1.6	1.6	3.8
103°	34.9	21.9	12.8	7.3	2.8	1.2	1.2	1.7	1.7	1.7	3.8
103.5°	34.6	21.6	12.7	7.2	2.8	1.2	1.3	1.7	1.7	1.7	3.7
104°	34.3	21.4	12.6	7.2	2.7	1.3	1.3	1.8	1.8	1.8	3.6
104.5°	34.1	21.2	12.5	7.1	2.7	1.3	1.3	1.8	1.8	1.8	3.6
105°	34.0	21.0	12.4	7.0	2.7	1.3	1.4	1.9	1.9	1.8	3.6
105.5°	33.8	20.9	12.2	6.9	2.7	1.4	1.4	1.9	1.9	1.9	3.6
106°	33.8	20.8	12.1	6.9	2.7	1.4	1.4	2.0	2.0	1.9	3.5
106.5°	33.7	20.7	12.0	6.8	2.6	1.5	1.5	2.0	2.0	2.0	3.5
107°	33.7	20.7	11.9	6.7	2.6	1.5	1.5	2.1	2.1	2.0	3.5
107.5°	33.7	20.7	11.8	6.6	2.6	1.5	1.6	2.1	2.1	2.1	3.5
108°	33.7	20.7	11.7	6.5	2.6	1.6	1.6	2.2	2.1	2.1	3.6
108.5°	33.7	20.7	11.6	6.4	2.6	1.6	1.6	2.2	2.2	2.1	3.6
109°	33.8	20.7	11.6	6.3	2.6	1.6	1.7	2.2	2.2	2.2	3.6
109.5°	33.8	20.6	11.5	6.2	2.7	1.7	1.7	2.3	2.2	2.2	3.6
110°	33.8	20.6	11.5	6.2	2.7	1.7	1.7	2.3	2.3	2.2	3.6
110.5°	33.9	20.6	11.5	6.1	2.7	1.7	1.8	2.3	2.3	2.3	3.6
111°	33.9	20.5	11.5	6.1	2.8	1.8	1.8	2.4	2.4	2.3	3.6
111.5°	33.9	20.5	11.5	6.0	2.8	1.8	1.9	2.4	2.4	2.3	3.6
112°	34.0	20.5	11.6	6.0	2.8	1.9	1.9	2.5	2.4	2.4	3.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	34.0	20.4	11.6	6.0	2.9	1.9	2.0	2.5	2.5	2.4	3.6
113°	34.0	20.4	11.6	6.0	2.9	2.0	2.0	2.5	2.5	2.4	3.7
113.5°	34.1	20.3	11.6	6.0	3.0	2.0	2.1	2.5	2.5	2.5	3.7
114°	34.1	20.3	11.6	6.0	3.0	2.1	2.1	2.6	2.5	2.5	3.7
114.5°	34.1	20.2	11.6	6.0	3.0	2.1	2.2	2.6	2.6	2.5	3.7
115°	34.1	20.2	11.5	6.1	3.1	2.2	2.2	2.6	2.6	2.6	3.7
115.5°	34.1	20.1	11.5	6.2	3.2	2.2	2.3	2.7	2.6	2.6	3.8
116°	34.1	20.1	11.4	6.3	3.2	2.3	2.3	2.7	2.7	2.6	3.8
116.5°	34.2	20.0	11.4	6.4	3.3	2.3	2.4	2.7	2.7	2.7	3.8
117°	34.2	20.0	11.4	6.5	3.4	2.4	2.4	2.8	2.7	2.7	3.8
117.5°	34.3	20.0	11.3	6.6	3.4	2.4	2.5	2.8	2.8	2.7	3.9
118°	34.4	20.0	11.3	6.6	3.5	2.5	2.5	2.8	2.8	2.8	3.9
118.5°	34.5	19.9	11.3	6.7	3.6	2.6	2.6	2.9	2.8	2.8	3.9
119°	34.5	19.9	11.3	6.8	3.6	2.6	2.7	2.9	2.9	2.8	3.9
119.5°	34.5	19.8	11.3	6.9	3.7	2.7	2.7	2.9	2.9	2.8	4.0
120°	34.6	19.8	11.3	6.9	3.8	2.8	2.8	3.0	2.9	2.9	4.0
120.5°	34.6	19.8	11.3	7.0	3.8	2.8	2.8	3.0	3.0	2.9	4.0
121°	34.7	19.8	11.4	7.1	3.9	2.9	2.9	3.0	3.0	3.0	4.1
121.5°	34.7	19.8	11.4	7.1	3.9	2.9	3.0	3.1	3.0	3.0	4.1
122°	34.7	19.8	11.5	7.2	4.0	3.0	3.0	3.1	3.1	3.0	4.1
122.5°	34.7	19.8	11.5	7.3	4.0	3.0	3.1	3.2	3.1	3.1	4.2
123°	34.7	19.9	11.6	7.3	4.0	3.1	3.1	3.2	3.2	3.1	4.2
123.5°	34.8	20.0	11.6	7.4	4.1	3.2	3.2	3.2	3.2	3.2	4.3
124°	34.8	20.0	11.7	7.4	4.1	3.2	3.2	3.3	3.2	3.2	4.3
124.5°	34.8	20.1	11.8	7.5	4.2	3.3	3.3	3.3	3.3	3.2	4.4
125°	34.9	20.2	11.8	7.5	4.2	3.3	3.3	3.4	3.3	3.3	4.4
125.5°	35.0	20.3	11.9	7.6	4.2	3.4	3.4	3.4	3.4	3.3	4.5
126°	35.1	20.5	12.0	7.6	4.3	3.4	3.5	3.5	3.4	3.4	4.6
126.5°	35.3	20.6	12.1	7.7	4.3	3.5	3.5	3.5	3.5	3.5	4.7
127°	35.5	20.7	12.2	7.7	4.3	3.5	3.5	3.6	3.6	3.5	4.7
127.5°	35.7	20.9	12.3	7.7	4.4	3.6	3.6	3.7	3.6	3.6	4.8
128°	35.9	21.0	12.4	7.8	4.4	3.6	3.6	3.7	3.7	3.6	4.9
128.5°	36.2	21.2	12.5	7.8	4.4	3.7	3.7	3.8	3.8	3.7	4.9
129°	36.5	21.3	12.6	7.8	4.4	3.7	3.8	3.8	3.8	3.7	5.0
129.5°	36.7	21.5	12.6	7.8	4.5	3.7	3.8	3.9	3.9	3.8	5.0
130°	37.0	21.6	12.7	7.9	4.5	3.8	3.8	4.0	3.9	3.8	5.0
130.5°	37.3	21.8	12.8	7.9	4.5	3.8	3.9	4.0	4.0	3.9	5.1
131°	37.6	22.0	12.9	7.9	4.6	3.9	4.0	4.1	4.1	4.0	5.1
131.5°	37.9	22.1	13.0	8.0	4.6	3.9	4.0	4.1	4.1	4.0	5.2
132°	38.2	22.3	13.1	8.0	4.6	4.0	4.1	4.2	4.2	4.1	5.2
132.5°	38.4	22.5	13.2	8.0	4.7	4.0	4.1	4.3	4.2	4.1	5.2
133°	38.7	22.6	13.3	8.1	4.7	4.1	4.1	4.3	4.3	4.2	5.3
133.5°	39.0	22.8	13.3	8.1	4.7	4.1	4.2	4.4	4.4	4.3	5.3
134°	39.3	22.9	13.4	8.1	4.7	4.1	4.2	4.5	4.4	4.3	5.3
134.5°	39.5	23.0	13.4	8.1	4.8	4.2	4.3	4.5	4.5	4.4	5.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	39.8	23.1	13.5	8.1	4.8	4.2	4.3	4.6	4.5	4.5	5.4
135.5°	40.0	23.2	13.5	8.1	4.8	4.2	4.3	4.6	4.6	4.5	5.4
136°	40.2	23.3	13.6	8.1	4.8	4.3	4.3	4.7	4.7	4.6	5.4
136.5°	40.4	23.3	13.6	8.1	4.8	4.3	4.4	4.7	4.7	4.6	5.5
137°	40.6	23.4	13.6	8.1	4.8	4.3	4.4	4.8	4.8	4.7	5.5
137.5°	40.7	23.4	13.6	8.1	4.9	4.4	4.4	4.8	4.8	4.7	5.5
138°	40.9	23.5	13.7	8.1	4.9	4.4	4.5	4.9	4.9	4.8	5.5
138.5°	41.0	23.5	13.7	8.1	4.9	4.4	4.5	4.9	4.9	4.8	5.6
139°	41.1	23.5	13.7	8.1	4.9	4.5	4.6	5.0	5.0	4.9	5.6
139.5°	41.1	23.5	13.6	8.1	4.9	4.5	4.6	5.0	5.0	4.9	5.6
140°	41.1	23.5	13.6	8.1	4.9	4.5	4.6	5.1	5.0	5.0	5.6
140.5°	41.1	23.4	13.6	8.1	4.9	4.5	4.6	5.1	5.1	5.0	5.6
141°	41.0	23.4	13.5	8.0	4.9	4.6	4.6	5.1	5.1	5.0	5.7
141.5°	40.9	23.3	13.5	8.0	4.9	4.6	4.7	5.2	5.2	5.1	5.7
142°	40.7	23.2	13.4	8.0	4.9	4.6	4.7	5.2	5.2	5.1	5.7
142.5°	40.5	23.2	13.4	7.9	4.9	4.6	4.7	5.2	5.2	5.2	5.7
143°	40.3	23.1	13.3	7.9	4.9	4.6	4.7	5.3	5.2	5.2	5.7
143.5°	40.1	23.0	13.2	7.8	4.9	4.6	4.7	5.3	5.3	5.2	5.7
144°	39.8	22.9	13.1	7.8	4.9	4.6	4.7	5.3	5.3	5.3	5.7
144.5°	39.4	22.7	13.0	7.7	4.9	4.6	4.7	5.3	5.3	5.3	5.7
145°	39.0	22.6	12.9	7.7	4.9	4.6	4.7	5.3	5.3	5.3	5.7
145.5°	38.6	22.5	12.8	7.6	4.9	4.7	4.8	5.4	5.4	5.3	5.7
146°	38.1	22.3	12.7	7.5	4.9	4.7	4.8	5.4	5.4	5.3	5.6
146.5°	37.5	22.1	12.6	7.5	4.9	4.7	4.8	5.4	5.4	5.3	5.6
147°	37.0	21.9	12.4	7.4	4.8	4.7	4.8	5.4	5.4	5.4	5.6
147.5°	36.4	21.7	12.3	7.3	4.8	4.7	4.8	5.4	5.4	5.4	5.6
148°	35.7	21.5	12.2	7.3	4.8	4.7	4.8	5.4	5.4	5.4	5.5
148.5°	35.0	21.3	12.1	7.2	4.8	4.7	4.8	5.4	5.4	5.4	5.5
149°	34.2	21.0	11.9	7.1	4.8	4.8	4.9	5.4	5.4	5.3	5.5
149.5°	33.5	20.8	11.8	7.0	4.8	4.8	4.9	5.4	5.4	5.3	5.4
150°	32.7	20.5	11.7	7.0	4.8	4.8	4.9	5.3	5.4	5.3	5.4
150.5°	31.8	20.2	11.5	6.9	4.7	4.8	4.9	5.3	5.3	5.3	5.3
151°	31.0	19.9	11.4	6.8	4.7	4.8	4.9	5.3	5.3	5.3	5.3
151.5°	30.1	19.5	11.2	6.7	4.7	4.8	4.9	5.3	5.3	5.3	5.3
152°	29.2	19.2	11.1	6.6	4.7	4.8	4.9	5.3	5.3	5.3	5.2
152.5°	28.4	18.8	10.9	6.6	4.7	4.8	4.9	5.3	5.3	5.3	5.2
153°	27.4	18.4	10.7	6.5	4.6	4.8	4.9	5.3	5.3	5.2	5.1
153.5°	26.5	18.0	10.6	6.4	4.6	4.8	4.9	5.2	5.2	5.2	5.1
154°	25.6	17.6	10.4	6.2	4.6	4.8	4.9	5.2	5.2	5.2	5.1
154.5°	24.7	17.1	10.2	6.1	4.6	4.8	4.9	5.2	5.2	5.2	5.0
155°	23.7	16.7	10.0	6.0	4.6	4.8	4.9	5.2	5.2	5.1	5.0
155.5°	22.8	16.2	9.8	5.9	4.6	4.8	4.9	5.1	5.1	5.1	5.0
156°	21.9	15.7	9.6	5.8	4.6	4.8	4.9	5.1	5.1	5.1	4.9
156.5°	20.9	15.2	9.4	5.6	4.6	4.8	4.9	5.1	5.1	5.1	4.9
157°	20.0	14.7	9.1	5.5	4.6	4.8	4.9	5.1	5.1	5.0	4.9



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	19.2	14.2	8.9	5.4	4.6	4.8	5.0	5.1	5.1	5.0	4.9
158°	18.3	13.7	8.7	5.3	4.6	4.9	5.0	5.1	5.0	5.0	4.9
158.5°	17.4	13.2	8.4	5.1	4.6	4.9	5.0	5.0	5.0	5.0	4.9
159°	16.6	12.7	8.2	5.0	4.7	4.9	5.0	5.0	5.0	5.0	4.8
159.5°	15.7	12.1	7.9	4.9	4.7	4.9	5.1	5.0	5.0	5.0	4.8
160°	14.9	11.6	7.6	4.8	4.7	5.0	5.1	5.0	5.0	4.9	4.8
160.5°	14.1	11.0	7.3	4.7	4.7	5.0	5.1	5.0	5.0	4.9	4.8
161°	13.3	10.5	7.0	4.7	4.7	5.0	5.1	5.0	4.9	4.9	4.8
161.5°	12.5	9.9	6.7	4.6	4.7	4.9	5.1	4.9	4.9	4.9	4.7
162°	11.8	9.4	6.4	4.6	4.7	4.9	5.1	4.9	4.9	4.8	4.7
162.5°	11.0	8.8	6.1	4.5	4.7	4.9	5.1	4.9	4.9	4.8	4.7
163°	10.3	8.3	5.7	4.4	4.7	4.9	5.1	4.8	4.8	4.8	4.6
163.5°	9.7	7.8	5.4	4.5	4.7	5.0	5.1	4.8	4.8	4.8	4.6
164°	9.0	7.3	5.2	4.5	4.7	5.0	5.1	4.8	4.8	4.7	4.6
164.5°	8.4	6.9	5.0	4.5	4.8	5.0	5.2	4.8	4.7	4.7	4.6
165°	7.9	6.5	4.9	4.6	4.8	5.1	5.2	4.7	4.7	4.7	4.6
165.5°	7.4	6.1	4.7	4.7	4.9	5.1	5.3	4.7	4.7	4.7	4.6
166°	6.9	5.8	4.6	4.7	5.0	5.2	5.3	4.7	4.7	4.7	4.6
166.5°	6.4	5.4	4.6	4.8	5.0	5.2	5.4	4.7	4.7	4.7	4.6
167°	6.0	5.1	4.7	4.9	5.1	5.3	5.4	4.7	4.7	4.7	4.6
167.5°	5.6	4.8	4.8	4.9	5.1	5.3	5.4	4.7	4.7	4.7	4.6
168°	5.1	4.6	4.8	4.9	5.1	5.3	5.5	4.7	4.7	4.7	4.6
168.5°	4.8	4.6	4.8	4.9	5.1	5.3	5.5	4.7	4.7	4.7	4.6
169°	4.5	4.6	4.8	5.0	5.2	5.4	5.5	4.7	4.7	4.6	4.6
169.5°	4.4	4.6	4.8	5.0	5.2	5.4	5.5	4.6	4.6	4.6	4.5
170°	4.4	4.6	4.8	5.0	5.2	5.4	5.6	4.6	4.6	4.6	4.5
170.5°	4.5	4.7	4.9	5.0	5.2	5.4	5.6	4.6	4.6	4.5	4.5
171°	4.5	4.7	4.9	5.1	5.3	5.5	5.6	4.6	4.6	4.5	4.4
171.5°	4.5	4.7	4.9	5.1	5.3	5.5	5.7	4.6	4.6	4.5	4.4
172°	4.6	4.8	5.0	5.2	5.4	5.6	5.8	4.6	4.6	4.5	4.4
172.5°	4.7	4.9	5.1	5.3	5.4	5.7	5.9	4.6	4.5	4.5	4.4
173°	4.8	5.0	5.2	5.3	5.5	5.8	5.9	4.5	4.5	4.4	4.3
173.5°	4.9	5.1	5.3	5.4	5.6	5.8	6.0	4.5	4.5	4.4	4.3
174°	4.9	5.1	5.3	5.4	5.6	5.9	6.0	4.5	4.5	4.4	4.3
174.5°	4.9	5.1	5.3	5.4	5.6	5.8	6.0	4.5	4.4	4.4	4.3
175°	4.9	5.1	5.3	5.4	5.6	5.8	6.0	4.4	4.4	4.4	4.2
175.5°	4.9	5.1	5.3	5.4	5.6	5.8	6.0	4.4	4.4	4.3	4.2
176°	4.9	5.1	5.3	5.4	5.6	5.8	5.9	4.4	4.3	4.3	4.2
176.5°	4.9	5.1	5.2	5.4	5.5	5.7	5.9	4.3	4.3	4.2	4.1
177°	4.9	5.1	5.2	5.3	5.5	5.7	5.9	4.3	4.3	4.2	4.1
177.5°	4.9	5.0	5.2	5.3	5.4	5.6	5.8	4.2	4.2	4.2	4.1
178°	4.8	5.0	5.1	5.2	5.4	5.6	5.7	4.2	4.2	4.1	4.0
178.5°	4.8	4.9	5.1	5.2	5.3	5.5	5.7	4.1	4.1	4.1	4.0
179°	4.8	4.9	5.0	5.1	5.3	5.5	5.6	4.1	4.1	4.0	3.9
179.5°	4.7	4.9	5.0	5.1	5.3	5.4	5.6	4.1	4.0	4.0	3.9



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CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1



REPORT NUMBER: P973042

CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1	3901.1
0.5°	3850.2	3855.7	3865.6	3876.8	3887.3	3899.8	3913.8	3926.4	3935.3	3944.5	3956.3
1°	3831.2	3834.0	3847.1	3864.1	3879.6	3900.7	3926.9	3953.7	3979.1	3991.6	4001.5
1.5°	3857.8	3846.7	3840.3	3848.1	3870.5	3901.6	3936.4	3978.5	3997.8	3992.6	3973.7
2°	3895.3	3871.3	3855.5	3843.8	3860.5	3898.9	3950.7	3990.8	3980.5	3941.3	3886.6
2.5°	3932.5	3903.7	3880.6	3851.1	3852.2	3896.8	3960.4	3988.5	3937.4	3846.5	3747.3
3°	3960.9	3935.1	3899.4	3863.1	3846.8	3892.5	3967.3	3968.2	3861.6	3731.2	3618.3
3.5°	3966.0	3953.5	3920.7	3876.5	3843.5	3892.5	3975.1	3931.3	3780.7	3627.5	3546.2
4°	3925.3	3956.8	3940.7	3889.7	3848.3	3893.0	3978.3	3896.4	3697.3	3548.4	3519.2
4.5°	3857.4	3938.7	3959.5	3912.4	3851.4	3890.4	3976.7	3843.2	3609.3	3517.8	3535.0
5°	3802.0	3892.3	3964.5	3929.7	3856.2	3886.3	3973.5	3779.6	3554.5	3519.3	3548.5
5.5°	3774.9	3837.2	3951.7	3942.3	3849.6	3882.1	3958.6	3715.5	3517.4	3535.0	3510.4
6°	3778.6	3795.1	3920.5	3944.7	3849.8	3876.2	3940.2	3646.2	3503.0	3542.1	3415.1
6.5°	3794.0	3777.5	3875.0	3944.5	3849.3	3868.1	3918.3	3580.3	3509.3	3509.0	3290.8
7°	3780.4	3780.9	3827.6	3943.5	3847.9	3863.1	3890.5	3537.6	3519.1	3421.1	3193.2
7.5°	3730.4	3785.2	3781.7	3936.9	3850.7	3857.5	3858.4	3503.6	3522.6	3305.9	3170.0
8°	3645.5	3781.3	3758.5	3918.2	3855.9	3847.2	3824.0	3479.5	3498.9	3211.0	3226.0
8.5°	3529.2	3751.4	3748.5	3890.0	3855.8	3836.7	3786.7	3472.4	3451.4	3152.5	3335.3
9°	3409.6	3697.2	3749.9	3852.0	3857.0	3829.1	3748.5	3471.8	3372.8	3159.2	3441.0
9.5°	3337.4	3615.6	3748.2	3814.0	3857.8	3818.5	3699.4	3468.4	3287.5	3205.3	3498.6
10°	3305.9	3511.8	3744.1	3771.1	3856.1	3809.8	3660.9	3475.1	3206.0	3297.0	3484.0
10.5°	3302.4	3413.6	3726.8	3738.6	3855.4	3802.4	3623.8	3472.1	3135.2	3388.9	3416.6
11°	3289.2	3326.8	3694.4	3711.4	3854.3	3790.8	3581.8	3457.4	3112.2	3448.1	3358.5
11.5°	3251.2	3277.7	3644.2	3690.4	3848.7	3783.0	3546.6	3431.4	3122.2	3471.1	3342.5
12°	3149.3	3254.2	3577.9	3680.8	3842.0	3771.1	3506.8	3394.4	3160.1	3433.9	3397.8
12.5°	3019.6	3249.5	3504.0	3672.8	3832.4	3757.8	3469.2	3339.1	3218.6	3378.4	3503.8
13°	2883.8	3242.3	3415.6	3665.2	3821.6	3744.0	3437.0	3284.5	3280.8	3333.6	3652.0
13.5°	2786.6	3208.8	3332.2	3652.3	3797.9	3729.8	3410.9	3221.0	3339.3	3317.7	3765.7
14°	2731.4	3141.1	3265.5	3640.1	3782.0	3716.2	3383.7	3152.8	3373.0	3342.9	3806.6
14.5°	2699.5	3042.3	3206.5	3620.3	3758.4	3696.2	3363.6	3105.1	3381.7	3410.4	3786.8
15°	2658.8	2915.5	3170.5	3596.5	3736.3	3680.3	3343.0	3062.6	3364.3	3513.6	3727.4
15.5°	2587.6	2804.8	3151.9	3566.5	3710.9	3664.8	3329.5	3037.0	3321.9	3611.5	3671.3
16°	2478.7	2716.9	3135.7	3533.1	3684.2	3648.9	3314.2	3026.0	3280.1	3686.6	3662.5
16.5°	2353.1	2660.2	3120.9	3495.2	3656.6	3632.9	3301.5	3031.0	3247.5	3717.7	3709.5
17°	2231.2	2626.5	3101.6	3454.7	3630.3	3613.0	3289.0	3046.9	3235.7	3708.2	3780.5
17.5°	2129.9	2596.4	3059.6	3400.2	3600.3	3594.3	3272.4	3065.2	3243.1	3669.6	3851.1
18°	2054.8	2548.5	2995.1	3341.9	3568.4	3576.1	3259.5	3093.5	3275.5	3612.4	3902.2
18.5°	1991.0	2477.3	2909.4	3278.8	3536.0	3556.2	3241.0	3119.9	3325.4	3575.4	3930.9
19°	1925.3	2379.1	2810.4	3207.1	3500.4	3537.9	3226.2	3140.3	3379.2	3570.6	3953.4
19.5°	1844.9	2271.5	2717.9	3143.2	3471.2	3515.3	3208.3	3159.4	3440.3	3598.8	3984.4
20°	1751.3	2164.5	2638.8	3082.6	3438.0	3498.1	3183.3	3169.5	3483.3	3649.3	4048.6
20.5°	1643.0	2076.1	2568.1	3029.6	3411.2	3475.4	3159.8	3162.3	3509.9	3705.1	4153.0
21°	1537.8	2003.9	2518.7	2985.2	3384.2	3453.3	3131.2	3146.1	3522.2	3759.1	4296.4
21.5°	1473.1	1946.0	2483.3	2948.6	3356.1	3425.2	3097.7	3124.8	3511.5	3796.7	4448.4
22°	1408.5	1891.8	2448.1	2916.2	3331.5	3398.8	3066.9	3099.0	3482.8	3821.4	4601.6



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CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1343.8	1828.0	2409.3	2892.8	3310.1	3375.3	3038.4	3076.4	3440.9	3835.3	4731.7
23°	1279.1	1761.0	2362.4	2870.7	3287.5	3349.6	3006.1	3053.2	3401.5	3853.3	4808.0
23.5°	1216.0	1688.2	2302.6	2851.8	3269.6	3327.6	2973.1	3039.1	3373.1	3888.6	4866.9
24°	1179.7	1605.4	2230.0	2828.3	3247.6	3301.9	2936.7	3025.9	3360.3	3957.7	4935.1
24.5°	1148.1	1526.0	2157.9	2798.4	3226.2	3280.2	2898.3	3017.7	3366.5	4047.4	5010.5
25°	1117.9	1450.8	2083.5	2761.5	3205.5	3261.5	2865.9	3014.4	3386.1	4157.4	5111.3
25.5°	1086.9	1400.9	2017.1	2715.1	3186.1	3240.0	2833.6	3018.8	3416.8	4284.0	5232.3
26°	1057.3	1351.0	1954.1	2665.3	3163.8	3221.8	2801.0	3033.6	3445.4	4375.7	5319.4
26.5°	1027.8	1301.1	1896.6	2608.0	3145.9	3203.9	2778.3	3046.6	3470.6	4448.7	5377.7
27°	998.5	1251.2	1847.7	2557.0	3124.9	3189.4	2756.3	3070.9	3497.9	4507.8	5406.6
27.5°	968.7	1201.8	1798.6	2499.3	3104.9	3171.3	2737.5	3094.9	3514.1	4542.1	5415.4
28°	937.6	1171.3	1750.6	2448.8	3081.9	3156.9	2723.5	3111.9	3526.5	4569.7	5424.1
28.5°	908.3	1143.6	1706.3	2409.1	3062.1	3140.3	2708.0	3131.8	3543.2	4610.3	5445.5
29°	879.2	1117.1	1658.4	2370.3	3037.2	3127.1	2697.2	3144.9	3563.4	4660.4	5461.9
29.5°	849.4	1089.3	1609.5	2335.9	3013.9	3110.9	2688.3	3145.3	3583.9	4721.1	5459.2
30°	820.5	1062.9	1565.2	2309.6	2991.1	3095.7	2677.7	3140.6	3621.3	4793.4	5435.0
30.5°	791.0	1037.2	1519.1	2282.0	2966.2	3079.2	2670.2	3126.3	3666.4	4844.9	5397.2
31°	762.1	1010.2	1473.8	2254.1	2940.3	3064.8	2663.2	3106.7	3713.6	4867.2	5359.1
31.5°	734.6	983.3	1432.0	2229.1	2915.8	3050.4	2656.9	3082.4	3785.2	4875.9	5328.9
32°	708.4	956.9	1392.5	2200.3	2888.7	3035.9	2655.8	3053.7	3845.9	4867.9	5306.2
32.5°	681.4	929.7	1363.5	2166.9	2866.9	3022.3	2654.6	3029.7	3891.6	4861.2	5277.8
33°	656.0	903.1	1334.5	2138.5	2843.6	3011.1	2656.3	3014.6	3933.1	4862.7	5241.7
33.5°	631.9	877.2	1305.5	2104.8	2823.0	2999.4	2655.9	3006.2	3962.1	4865.6	5194.9
34°	607.9	850.9	1276.6	2074.4	2799.4	2989.0	2656.2	3002.2	3977.4	4864.3	5145.4
34.5°	585.7	824.3	1247.8	2047.3	2776.9	2980.8	2655.7	3004.9	3992.3	4854.6	5100.1
35°	564.6	799.0	1227.6	2020.8	2757.1	2971.8	2656.0	3012.5	4001.7	4832.5	5063.2
35.5°	542.9	772.4	1208.7	1996.1	2741.2	2963.1	2653.3	3016.8	4006.4	4798.9	5024.0
36°	524.1	748.5	1193.0	1976.9	2726.0	2953.8	2653.1	3021.5	4020.1	4761.2	4975.7
36.5°	505.4	725.2	1177.3	1956.2	2713.6	2947.2	2651.4	3027.8	4041.0	4725.1	4919.0
37°	485.9	701.8	1160.9	1938.8	2702.8	2941.5	2644.5	3027.6	4060.2	4691.3	4862.8
37.5°	468.3	681.0	1145.8	1924.1	2692.0	2934.7	2636.2	3028.7	4078.8	4660.1	4806.0
38°	451.5	662.5	1130.4	1906.2	2684.3	2929.4	2625.5	3031.5	4093.4	4626.5	4763.8
38.5°	434.6	643.7	1114.9	1891.8	2678.2	2925.4	2612.7	3034.3	4098.8	4594.9	4727.4
39°	419.2	625.8	1100.4	1878.6	2674.1	2920.5	2602.7	3037.4	4101.5	4559.5	4683.7
39.5°	403.5	609.3	1083.5	1861.3	2668.6	2915.1	2588.6	3044.9	4098.4	4520.2	4642.8
40°	388.2	593.3	1068.1	1848.7	2663.5	2911.6	2579.5	3052.1	4087.3	4488.5	4604.0
40.5°	373.3	578.3	1053.0	1835.1	2654.5	2902.2	2570.3	3060.1	4076.8	4461.6	4567.4
41°	359.1	564.6	1036.5	1819.3	2645.0	2893.8	2561.5	3070.4	4067.0	4429.5	4533.5
41.5°	345.6	550.9	1020.8	1804.3	2635.6	2884.6	2554.7	3077.5	4058.2	4399.0	4507.9
42°	333.5	538.9	1006.2	1790.1	2623.0	2876.1	2547.7	3085.0	4054.6	4366.9	4486.1
42.5°	320.9	526.4	989.9	1773.0	2609.6	2869.3	2542.6	3096.2	4051.1	4334.2	4462.7
43°	309.0	514.7	974.7	1758.0	2596.5	2863.8	2539.3	3102.8	4040.3	4300.4	4433.9
43.5°	298.4	503.6	960.6	1743.8	2584.2	2860.8	2538.8	3109.3	4026.1	4269.0	4407.5
44°	287.8	492.8	945.2	1726.1	2572.5	2858.4	2541.2	3122.4	4005.5	4242.2	4382.6
44.5°	277.7	481.9	930.7	1711.5	2562.2	2855.0	2543.8	3131.1	3976.3	4218.6	4367.5



REPORT NUMBER: P973042

CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	268.5	472.3	918.8	1698.1	2552.5	2853.6	2546.2	3140.0	3947.6	4194.6	4354.4
45.5°	259.7	462.5	907.0	1681.4	2543.7	2849.9	2548.7	3152.8	3924.1	4168.9	4341.8
46°	251.4	452.5	897.0	1668.0	2534.5	2847.0	2550.5	3160.5	3901.8	4139.1	4329.9
46.5°	244.0	443.4	888.6	1653.6	2523.8	2842.2	2549.8	3164.3	3883.7	4109.0	4321.2
47°	236.7	434.4	880.0	1639.0	2513.4	2836.8	2548.7	3172.4	3865.8	4079.4	4310.9
47.5°	230.0	424.9	873.4	1626.0	2503.2	2831.9	2546.6	3176.2	3845.0	4051.8	4301.1
48°	224.2	416.7	867.1	1611.4	2491.3	2825.3	2541.5	3178.4	3822.2	4024.3	4293.0
48.5°	218.1	408.1	860.4	1595.3	2481.4	2817.1	2534.9	3186.7	3798.2	3992.5	4284.2
49°	212.7	400.2	854.4	1580.4	2473.0	2810.0	2525.2	3192.1	3774.5	3960.2	4269.7
49.5°	207.5	392.7	849.0	1564.4	2462.3	2801.5	2515.9	3199.9	3754.8	3924.3	4256.1
50°	202.3	385.2	841.9	1546.9	2450.7	2793.1	2503.7	3210.4	3732.5	3887.0	4236.2
50.5°	197.4	378.0	836.5	1531.1	2440.5	2785.0	2489.4	3212.8	3708.7	3852.9	4213.2
51°	192.9	371.5	830.6	1512.4	2426.2	2776.2	2472.9	3214.5	3685.1	3815.0	4185.4
51.5°	188.2	364.5	822.9	1493.7	2412.4	2764.6	2453.6	3214.7	3654.9	3780.4	4153.6
52°	183.9	358.2	816.9	1478.2	2398.7	2749.0	2434.0	3207.7	3622.7	3749.9	4124.4
52.5°	179.8	351.8	809.0	1461.0	2384.4	2733.3	2411.5	3199.2	3587.5	3712.2	4092.2
53°	175.5	345.0	799.4	1445.3	2367.5	2713.8	2386.3	3187.7	3549.0	3675.0	4059.3
53.5°	171.6	338.5	791.3	1431.0	2351.4	2692.8	2360.4	3168.1	3509.2	3636.8	4037.2
54°	167.6	332.1	781.2	1415.8	2332.5	2667.2	2332.4	3144.9	3465.9	3597.1	4008.9
54.5°	163.4	325.4	771.9	1398.6	2312.2	2638.1	2302.2	3120.1	3423.3	3558.2	3973.7
55°	159.7	319.3	762.3	1384.0	2288.9	2603.3	2272.6	3093.4	3381.2	3521.6	3945.5
55.5°	155.8	313.0	751.7	1369.8	2265.3	2566.7	2238.6	3061.7	3337.9	3484.1	3907.9
56°	151.8	306.5	740.5	1355.6	2237.6	2526.3	2202.9	3026.9	3288.1	3443.2	3870.6
56.5°	148.1	300.7	731.0	1343.3	2210.7	2485.5	2166.1	2989.6	3242.3	3403.6	3835.6
57°	144.5	294.9	720.1	1331.6	2180.9	2438.7	2129.9	2946.4	3195.9	3364.5	3789.6
57.5°	140.9	289.1	709.0	1320.1	2151.6	2393.8	2091.7	2899.8	3151.6	3327.1	3748.0
58°	137.3	283.6	698.4	1309.2	2123.0	2347.7	2053.1	2847.3	3105.8	3282.2	3705.6
58.5°	133.7	278.2	687.4	1298.4	2094.4	2304.9	2017.7	2798.3	3058.5	3240.0	3657.5
59°	130.1	272.0	675.5	1287.5	2066.7	2262.3	1978.7	2745.5	3008.3	3193.6	3596.5
59.5°	126.4	265.8	663.4	1276.6	2036.8	2218.8	1941.9	2693.2	2959.3	3150.7	3536.3
60°	122.7	259.0	650.8	1265.7	2006.4	2174.8	1906.6	2641.6	2911.0	3110.7	3476.6
60.5°	119.0	252.0	637.2	1252.5	1976.7	2132.5	1870.4	2591.8	2863.4	3073.4	3409.1
61°	115.4	245.9	624.4	1238.8	1945.4	2087.9	1833.7	2537.7	2816.4	3035.5	3336.7
61.5°	111.7	239.8	609.9	1222.8	1914.9	2045.2	1798.4	2487.4	2766.7	2990.8	3271.3
62°	108.1	233.9	594.5	1205.0	1885.5	2002.7	1766.1	2434.4	2712.6	2939.7	3203.3
62.5°	104.8	228.1	579.9	1185.2	1854.8	1961.6	1732.3	2388.5	2659.3	2886.3	3134.2
63°	101.1	221.9	563.0	1162.4	1823.9	1924.1	1700.1	2338.3	2605.5	2827.9	3066.4
63.5°	97.7	215.6	547.3	1137.8	1792.8	1888.3	1667.6	2287.4	2552.4	2759.4	2992.9
64°	94.5	209.6	531.4	1114.7	1762.2	1850.6	1636.4	2239.0	2498.1	2689.4	2922.3
64.5°	91.3	203.1	514.9	1091.2	1728.6	1811.0	1604.0	2194.1	2444.8	2623.3	2857.6
65°	88.0	196.1	497.2	1069.0	1695.7	1771.9	1569.9	2146.3	2390.3	2555.1	2790.5
65.5°	84.9	189.5	481.6	1046.5	1659.0	1734.6	1536.7	2100.2	2335.7	2483.8	2724.1
66°	81.5	183.0	464.6	1020.8	1623.7	1693.9	1503.5	2055.4	2281.3	2418.7	2658.6
66.5°	78.2	176.2	448.4	995.3	1588.3	1652.2	1467.1	2009.6	2224.8	2353.8	2591.0
67°	74.6	170.1	432.2	970.4	1552.0	1612.4	1431.4	1960.6	2169.5	2286.9	2528.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	70.7	164.5	417.2	943.5	1514.2	1576.4	1396.8	1913.0	2111.7	2223.2	2469.0
68°	64.8	158.7	401.9	915.0	1476.2	1540.4	1362.0	1865.5	2051.3	2158.4	2406.1
68.5°	58.1	153.0	387.7	887.0	1436.9	1501.9	1327.2	1821.7	1993.2	2100.7	2342.7
69°	50.5	147.6	374.0	857.9	1398.6	1460.8	1292.3	1772.9	1932.3	2043.3	2276.1
69.5°	45.8	142.1	360.7	829.4	1359.1	1421.6	1257.5	1727.6	1870.3	1984.4	2206.3
70°	44.4	136.6	347.7	801.9	1319.5	1379.3	1222.6	1683.2	1810.9	1929.3	2137.4
70.5°	43.4	131.2	335.2	771.0	1279.9	1337.0	1187.0	1636.7	1751.8	1873.7	2068.2
71°	42.4	125.6	323.0	744.0	1240.3	1294.6	1152.1	1588.5	1691.6	1814.8	1998.2
71.5°	41.6	118.7	311.8	719.6	1200.7	1252.3	1115.2	1542.4	1632.0	1754.4	1929.5
72°	40.6	110.9	300.3	696.7	1158.9	1209.9	1078.8	1496.0	1577.3	1700.4	1866.8
72.5°	39.8	105.2	288.6	673.7	1117.5	1165.3	1040.3	1446.7	1522.0	1641.4	1800.8
73°	38.9	101.3	276.1	650.7	1075.6	1124.1	1005.0	1393.2	1468.1	1579.5	1733.6
73.5°	38.1	97.0	264.0	628.4	1032.9	1082.9	971.5	1339.7	1418.9	1523.9	1672.6
74°	37.3	92.8	253.0	607.7	992.2	1039.1	936.4	1286.2	1369.1	1463.0	1607.4
74.5°	36.6	89.1	243.6	587.8	951.5	995.5	900.0	1232.7	1319.4	1406.2	1545.8
75°	35.8	85.5	233.8	569.2	911.9	954.4	865.1	1179.2	1269.7	1349.4	1483.1
75.5°	35.0	82.1	223.9	552.1	874.9	912.9	829.1	1121.6	1219.9	1292.6	1419.9
76°	34.3	79.0	214.7	536.7	838.9	872.4	793.8	1064.7	1169.9	1235.7	1356.8
76.5°	33.4	76.1	205.3	519.2	806.4	833.9	759.7	1014.5	1119.5	1179.1	1293.6
77°	32.7	73.2	196.6	502.0	772.5	795.1	723.9	963.5	1066.6	1124.5	1230.5
77.5°	31.9	70.5	189.5	485.1	740.7	753.6	688.7	911.8	1013.5	1071.7	1167.4
78°	31.0	67.6	182.0	465.7	704.8	711.3	654.2	864.1	964.4	1021.0	1109.8
78.5°	30.2	65.0	175.8	447.6	666.9	669.7	616.8	817.1	913.6	967.6	1048.5
79°	29.3	62.4	169.3	428.6	627.2	629.9	579.1	770.7	865.3	917.0	989.3
79.5°	28.4	59.8	162.2	409.8	586.7	591.0	542.7	727.8	820.9	870.1	930.3
80°	27.5	57.3	153.7	390.2	546.3	552.0	506.4	685.2	775.8	819.7	873.1
80.5°	26.6	55.0	145.3	370.7	509.3	514.3	471.5	642.8	730.7	770.7	815.8
81°	25.7	52.7	136.9	350.6	474.5	477.3	440.8	603.0	689.0	724.8	764.8
81.5°	24.9	50.5	128.5	330.4	442.1	440.1	408.9	564.6	646.7	676.7	710.8
82°	24.1	48.2	120.1	310.3	409.3	402.5	376.1	525.3	606.4	631.2	658.0
82.5°	23.2	45.9	111.4	288.1	379.1	367.8	343.7	488.2	566.0	587.4	610.4
83°	22.4	43.7	102.9	266.9	349.2	334.1	314.9	452.4	526.6	545.7	563.7
83.5°	21.6	41.5	94.4	246.7	319.3	301.1	288.6	418.4	487.4	503.6	520.6
84°	20.9	39.3	86.5	226.0	290.0	269.8	263.8	385.3	450.7	467.6	482.6
84.5°	20.1	37.3	79.6	205.8	261.4	239.1	239.0	352.9	413.0	430.4	444.1
85°	19.4	35.4	73.3	186.8	234.6	210.3	217.6	323.1	379.5	398.0	410.0
85.5°	18.8	33.6	67.2	171.1	208.7	188.3	196.3	294.0	348.6	367.6	378.7
86°	18.1	31.9	61.9	155.4	189.1	166.3	177.5	266.4	319.0	339.2	349.4
86.5°	17.5	30.3	57.3	139.7	169.5	144.3	162.7	241.9	292.5	313.6	321.8
87°	16.8	28.8	53.1	124.0	149.9	122.2	147.8	221.3	270.2	291.5	298.6
87.5°	16.3	27.4	49.6	108.4	130.3	100.4	133.0	200.8	248.9	270.1	275.8
88°	15.7	26.2	46.4	97.8	110.7	86.0	118.5	184.0	230.1	250.8	255.3
88.5°	15.1	25.0	43.7	88.1	97.4	73.5	108.2	169.8	214.0	233.6	237.3
89°	14.6	23.9	41.3	79.8	86.5	63.5	99.0	160.5	199.8	218.5	220.4
89.5°	14.1	22.9	39.2	72.8	77.2	55.4	91.8	151.2	187.4	204.2	205.7



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	13.7	21.9	37.4	67.1	69.9	49.5	86.3	141.9	175.7	192.4	193.4
90.5°	13.2	21.1	35.9	62.4	64.4	44.9	81.9	132.6	165.2	181.3	182.1
91°	12.8	20.3	34.7	58.5	60.5	41.6	78.5	123.3	156.7	170.8	171.9
91.5°	12.3	19.7	33.7	55.2	57.7	39.3	75.8	118.3	151.4	161.1	162.1
92°	11.9	19.2	32.9	52.6	55.9	37.8	73.8	114.3	146.1	153.7	153.2
92.5°	11.6	18.7	32.3	50.5	54.6	37.0	72.3	110.7	140.8	148.3	147.8
93°	11.4	18.3	31.9	49.1	53.8	36.5	70.9	107.9	135.5	143.0	142.5
93.5°	11.1	17.9	31.6	48.2	53.3	36.4	69.7	105.3	130.2	137.6	137.2
94°	10.9	17.5	31.4	47.6	53.1	36.4	68.7	103.1	126.7	132.3	132.0
94.5°	10.7	17.2	31.3	47.2	53.1	36.7	68.0	101.1	123.6	128.5	128.6
95°	10.5	16.8	31.2	47.0	53.2	37.1	67.4	99.2	120.7	125.1	125.8
95.5°	10.3	16.5	31.0	46.8	53.3	37.6	67.1	97.5	118.0	122.0	123.2
96°	10.1	16.3	30.9	46.6	53.2	38.1	67.1	96.0	115.6	119.4	121.1
96.5°	10.0	16.0	30.7	46.3	53.1	38.7	67.2	94.6	113.4	116.9	119.1
97°	9.8	15.8	30.4	46.0	52.8	39.4	67.4	93.6	111.2	114.7	117.5
97.5°	9.7	15.6	30.0	45.6	52.5	40.1	67.6	92.7	109.4	112.8	116.1
98°	9.5	15.3	29.6	45.0	52.2	40.8	67.9	92.1	107.8	111.0	114.8
98.5°	9.4	15.1	29.0	44.5	51.8	41.6	68.3	91.6	106.3	109.6	113.7
99°	9.2	14.8	28.3	43.8	51.4	42.3	68.6	91.2	105.1	108.3	112.7
99.5°	9.0	14.6	27.6	43.2	51.1	43.2	69.1	90.9	104.0	107.0	111.8
100°	8.9	14.4	26.9	42.5	51.0	44.0	69.7	90.7	103.1	105.8	111.0
100.5°	8.7	14.1	26.2	41.9	50.9	44.8	70.2	90.6	102.5	104.9	110.0
101°	8.6	13.9	25.6	41.3	50.8	45.6	70.8	90.6	102.0	104.5	109.1
101.5°	8.3	13.7	25.0	40.7	50.9	46.5	71.3	90.5	101.6	104.3	108.9
102°	8.1	13.5	24.4	40.2	51.1	47.3	72.0	90.5	101.1	104.1	109.1
102.5°	7.8	13.4	23.9	39.7	51.3	48.1	72.6	90.6	100.7	103.8	109.0
103°	7.6	13.2	23.5	39.3	51.7	49.0	73.4	90.6	100.3	103.5	108.8
103.5°	7.4	13.1	23.1	39.0	52.1	49.8	74.1	90.7	99.9	103.3	108.6
104°	7.3	13.0	22.8	38.7	52.5	50.6	74.9	90.8	99.5	103.2	108.5
104.5°	7.2	12.8	22.6	38.4	53.1	51.5	75.6	90.9	99.2	103.0	108.4
105°	7.1	12.7	22.4	38.2	53.6	52.3	76.3	91.0	98.8	102.9	108.3
105.5°	7.0	12.6	22.2	38.1	54.2	53.2	77.0	91.1	98.4	102.8	108.3
106°	6.9	12.5	22.1	38.0	54.8	54.0	77.7	91.2	98.1	102.6	108.3
106.5°	6.9	12.4	22.1	37.9	55.3	54.8	78.4	91.3	97.7	102.4	108.2
107°	6.8	12.3	22.0	37.9	55.9	55.6	79.0	91.3	97.4	102.2	108.0
107.5°	6.7	12.2	22.0	37.9	56.4	56.4	79.7	91.5	97.1	101.9	107.8
108°	6.7	12.1	21.9	37.9	56.9	57.1	80.3	91.7	96.7	101.5	107.5
108.5°	6.6	12.0	21.9	37.9	57.4	57.8	80.9	92.0	96.5	101.2	107.1
109°	6.5	11.9	22.0	37.9	57.8	58.4	81.4	92.4	96.4	100.9	106.7
109.5°	6.4	11.8	22.0	38.0	58.1	59.0	82.0	92.9	96.3	100.7	106.3
110°	6.3	11.7	22.0	38.0	58.5	59.6	82.6	93.3	96.2	100.6	105.9
110.5°	6.2	11.7	22.0	38.1	59.0	60.1	83.2	93.7	96.2	100.5	105.6
111°	6.1	11.6	22.0	38.1	59.4	60.7	83.9	94.1	96.1	100.4	105.4
111.5°	6.1	11.6	22.0	38.2	59.9	61.4	84.5	94.5	96.1	100.3	105.1
112°	6.1	11.6	22.0	38.2	60.3	62.0	85.1	94.9	96.0	100.3	104.8



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	6.1	11.5	22.0	38.2	60.7	62.7	85.7	95.2	96.0	100.3	104.5
113°	6.0	11.5	22.0	38.2	61.1	63.2	86.2	95.6	96.0	100.2	104.3
113.5°	6.0	11.5	22.0	38.2	61.5	63.7	86.6	95.9	96.0	100.1	104.2
114°	6.0	11.4	22.0	38.1	61.9	64.2	87.1	96.3	96.0	100.1	104.1
114.5°	6.0	11.4	21.9	38.1	62.2	64.6	87.5	96.6	96.0	99.9	104.1
115°	6.1	11.4	21.9	38.1	62.5	65.1	87.9	96.9	95.9	99.8	104.0
115.5°	6.1	11.4	21.8	38.0	62.8	65.5	88.2	97.2	95.9	99.7	103.9
116°	6.1	11.4	21.7	38.0	62.9	65.7	88.5	97.4	95.8	99.6	103.8
116.5°	6.1	11.4	21.7	38.0	63.2	65.9	88.8	97.5	95.8	99.6	103.7
117°	6.2	11.4	21.6	38.0	63.5	66.1	89.0	97.6	95.7	99.5	103.6
117.5°	6.2	11.4	21.5	37.9	63.8	66.2	89.1	97.7	95.7	99.5	103.5
118°	6.3	11.4	21.5	37.9	64.0	66.4	89.2	97.8	95.7	99.4	103.4
118.5°	6.3	11.5	21.4	37.9	64.2	66.5	89.2	97.9	95.7	99.3	103.3
119°	6.4	11.5	21.4	37.9	64.2	66.5	89.1	97.9	95.6	99.3	103.1
119.5°	6.4	11.6	21.4	37.9	64.2	66.4	88.9	98.0	95.6	99.3	103.0
120°	6.5	11.6	21.3	37.9	64.2	66.3	88.7	98.0	95.6	99.3	102.9
120.5°	6.6	11.7	21.3	37.9	64.1	66.1	88.5	98.0	95.6	99.3	102.8
121°	6.7	11.7	21.3	37.8	64.1	65.9	88.2	98.0	95.7	99.4	102.8
121.5°	6.8	11.8	21.3	37.8	64.0	65.6	87.9	97.9	95.6	99.5	102.7
122°	6.9	11.8	21.3	37.8	64.0	65.2	87.5	97.9	95.7	99.5	102.7
122.5°	7.0	11.9	21.3	37.7	63.9	64.7	87.1	97.9	95.8	99.6	102.7
123°	7.0	11.9	21.4	37.7	63.8	64.3	86.6	97.9	95.8	99.7	102.7
123.5°	7.1	12.0	21.4	37.7	63.7	63.9	86.1	98.0	95.9	99.8	102.7
124°	7.2	12.0	21.4	37.8	63.6	63.5	85.6	98.0	96.1	99.9	102.7
124.5°	7.3	12.1	21.5	37.8	63.4	63.0	85.2	98.1	96.2	100.0	102.7
125°	7.4	12.2	21.5	37.9	63.3	62.6	84.7	98.3	96.3	100.1	102.7
125.5°	7.5	12.2	21.6	37.9	63.3	62.3	84.2	98.4	96.6	100.3	102.8
126°	7.5	12.3	21.7	38.0	63.2	62.0	83.8	98.6	96.8	100.5	102.8
126.5°	7.6	12.4	21.8	38.2	63.3	61.7	83.4	98.8	97.0	100.6	102.8
127°	7.7	12.5	21.9	38.3	63.3	61.5	83.0	99.0	97.2	100.7	102.8
127.5°	7.8	12.5	21.9	38.4	63.3	61.3	82.7	99.1	97.5	100.9	102.8
128°	7.8	12.6	22.0	38.6	63.4	61.1	82.4	99.4	97.8	101.0	102.8
128.5°	7.9	12.7	22.1	38.8	63.4	61.0	82.1	99.5	98.1	101.2	102.8
129°	8.0	12.8	22.2	39.0	63.5	60.9	81.8	99.7	98.4	101.3	102.8
129.5°	8.0	12.8	22.2	39.1	63.5	60.8	81.5	99.9	98.7	101.4	102.8
130°	8.1	12.9	22.3	39.4	63.6	60.7	81.3	100.1	98.9	101.4	102.7
130.5°	8.1	13.0	22.4	39.6	63.7	60.7	81.0	100.2	99.2	101.4	102.7
131°	8.2	13.0	22.5	39.8	63.7	60.6	80.7	100.2	99.5	101.4	102.5
131.5°	8.2	13.1	22.6	40.0	63.8	60.5	80.4	100.2	99.8	101.3	102.4
132°	8.3	13.2	22.6	40.2	63.8	60.4	80.1	100.1	100.0	101.2	102.2
132.5°	8.3	13.2	22.7	40.4	63.8	60.3	79.8	100.0	100.1	101.1	101.9
133°	8.3	13.3	22.8	40.6	63.7	60.2	79.4	99.8	100.3	100.9	101.5
133.5°	8.4	13.4	22.9	40.9	63.7	60.1	79.0	99.6	100.4	100.8	101.1
134°	8.4	13.5	23.0	41.1	63.6	59.8	78.5	99.2	100.4	100.5	100.7
134.5°	8.4	13.5	23.1	41.3	63.4	59.6	78.0	98.8	100.3	100.3	100.2



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	8.5	13.6	23.2	41.4	63.2	59.4	77.5	98.5	100.2	100.0	99.7
135.5°	8.5	13.6	23.3	41.6	62.9	59.2	76.9	98.0	100.1	99.6	99.1
136°	8.5	13.7	23.4	41.7	62.6	58.8	76.4	97.3	99.8	99.2	98.4
136.5°	8.6	13.8	23.5	41.9	62.3	58.5	75.7	96.7	99.5	98.7	97.6
137°	8.6	13.8	23.6	42.0	61.9	58.1	75.0	96.0	99.0	98.2	96.8
137.5°	8.6	13.9	23.6	42.1	61.4	57.8	74.3	95.2	98.5	97.6	96.0
138°	8.6	13.9	23.7	42.1	60.9	57.3	73.5	94.4	97.9	97.0	95.2
138.5°	8.6	13.9	23.7	42.1	60.4	56.8	72.7	93.4	97.2	96.3	94.5
139°	8.6	14.0	23.7	42.1	59.9	56.4	71.8	92.4	96.5	95.5	93.6
139.5°	8.6	14.0	23.7	42.0	59.2	55.8	71.0	91.4	95.7	94.7	92.8
140°	8.6	14.0	23.7	41.9	58.5	55.3	70.1	90.2	94.7	93.9	92.1
140.5°	8.6	14.0	23.7	41.8	57.7	54.6	69.1	89.0	93.7	92.9	91.3
141°	8.6	14.0	23.6	41.7	56.9	54.0	68.1	87.7	92.6	91.8	90.5
141.5°	8.6	13.9	23.5	41.4	56.0	53.3	67.0	86.4	91.5	90.7	89.7
142°	8.6	13.9	23.5	41.2	55.2	52.6	65.9	85.0	90.2	89.6	89.0
142.5°	8.6	13.8	23.4	40.9	54.2	51.8	64.7	83.6	88.9	88.3	88.2
143°	8.6	13.8	23.2	40.5	53.3	51.0	63.4	82.0	87.5	87.1	87.4
143.5°	8.5	13.7	23.1	40.2	52.2	50.2	62.2	80.5	86.1	85.7	86.6
144°	8.5	13.6	23.0	39.8	51.2	49.3	60.9	78.8	84.5	84.4	85.8
144.5°	8.4	13.5	22.8	39.3	50.1	48.3	59.5	77.1	82.9	83.0	84.9
145°	8.4	13.4	22.6	38.8	49.0	47.4	58.2	75.4	81.3	81.7	83.9
145.5°	8.3	13.3	22.4	38.2	47.8	46.4	56.8	73.7	79.7	80.3	83.0
146°	8.2	13.2	22.2	37.6	46.7	45.4	55.4	71.8	77.9	79.0	81.9
146.5°	8.2	13.1	22.0	37.0	45.5	44.4	53.9	69.9	76.2	77.6	80.8
147°	8.1	12.9	21.7	36.3	44.3	43.3	52.4	68.0	74.4	76.2	79.6
147.5°	8.0	12.7	21.5	35.5	43.0	42.2	50.9	66.1	72.6	74.9	78.3
148°	7.8	12.6	21.2	34.8	41.8	41.1	49.4	64.2	70.8	73.5	77.0
148.5°	7.7	12.4	20.9	34.0	40.5	40.0	47.9	62.1	69.0	72.1	75.7
149°	7.6	12.2	20.6	33.2	39.3	38.9	46.3	60.1	67.2	70.8	74.4
149.5°	7.5	12.1	20.3	32.3	38.0	37.7	44.8	58.1	65.5	69.3	72.9
150°	7.3	11.9	19.9	31.4	36.8	36.6	43.2	56.0	63.6	67.8	71.5
150.5°	7.2	11.7	19.5	30.5	35.5	35.5	41.6	54.0	61.6	66.3	70.1
151°	7.0	11.5	19.2	29.5	34.2	34.3	40.0	52.0	59.6	64.8	68.6
151.5°	6.9	11.2	18.8	28.6	33.0	33.2	38.5	50.0	57.7	63.2	67.2
152°	6.7	11.0	18.4	27.7	31.8	32.0	37.0	48.1	55.8	61.6	65.7
152.5°	6.6	10.7	17.9	26.7	30.6	30.9	35.5	46.1	53.8	60.0	64.2
153°	6.4	10.4	17.5	25.8	29.4	29.8	34.0	44.1	51.8	58.3	62.6
153.5°	6.2	10.2	17.0	24.8	28.2	28.7	32.5	42.2	49.8	56.8	61.0
154°	6.1	9.9	16.5	23.9	27.0	27.6	31.1	40.3	47.7	55.1	59.3
154.5°	5.9	9.6	16.0	22.9	25.9	26.5	29.7	38.5	45.6	53.4	57.7
155°	5.7	9.3	15.5	21.9	24.8	25.4	28.3	36.6	43.5	51.7	56.0
155.5°	5.5	8.9	14.9	21.0	23.7	24.4	27.0	34.8	41.5	49.8	54.3
156°	5.3	8.6	14.3	20.0	22.6	23.3	25.6	33.0	39.4	47.4	52.7
156.5°	5.1	8.3	13.7	19.1	21.5	22.3	24.4	31.3	37.4	45.2	51.1
157°	5.0	7.9	13.1	18.2	20.5	21.3	23.1	29.6	35.3	42.9	49.4



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	4.9	7.6	12.5	17.3	19.5	20.3	21.9	27.9	33.2	40.6	47.8
158°	4.8	7.2	11.8	16.4	18.5	19.4	20.8	26.3	31.1	38.3	46.1
158.5°	4.8	6.8	11.3	15.6	17.6	18.5	19.6	24.7	29.1	36.0	44.4
159°	4.7	6.5	10.7	14.8	16.6	17.5	18.5	23.2	27.0	33.7	42.0
159.5°	4.7	6.1	10.1	13.9	15.7	16.6	17.5	21.7	25.4	31.5	39.5
160°	4.7	5.8	9.5	13.1	14.9	15.8	16.4	20.3	23.8	29.2	36.8
160.5°	4.6	5.5	8.9	12.3	14.1	14.9	15.4	18.9	22.3	27.1	34.3
161°	4.6	5.3	8.4	11.5	13.2	14.1	14.6	17.6	20.8	25.0	31.8
161.5°	4.6	5.1	7.8	10.7	12.3	13.3	13.7	16.4	19.3	22.8	29.2
162°	4.6	5.0	7.3	10.0	11.5	12.4	12.8	15.3	17.9	20.6	26.7
162.5°	4.5	4.9	6.7	9.3	10.8	11.6	12.0	14.3	16.6	18.5	24.5
163°	4.5	4.8	6.3	8.7	10.1	10.9	11.1	13.2	15.5	16.5	22.1
163.5°	4.5	4.6	5.9	8.1	9.4	10.2	10.4	12.1	14.3	15.4	19.9
164°	4.5	4.5	5.6	7.5	8.8	9.5	9.7	11.0	13.2	14.3	18.0
164.5°	4.4	4.4	5.3	6.9	8.2	8.9	9.1	10.1	12.0	13.1	16.1
165°	4.4	4.4	5.0	6.4	7.6	8.3	8.5	9.3	10.8	12.0	14.1
165.5°	4.4	4.4	4.8	5.9	7.0	7.7	7.9	8.6	9.9	10.9	12.2
166°	4.4	4.4	4.6	5.6	6.6	7.2	7.4	7.9	9.1	10.0	10.3
166.5°	4.4	4.4	4.4	5.2	6.1	6.7	6.9	7.3	8.4	9.2	9.6
167°	4.5	4.4	4.4	4.9	5.7	6.3	6.4	6.7	7.7	8.4	9.0
167.5°	4.5	4.4	4.4	4.7	5.3	5.8	6.0	6.2	7.0	7.7	8.5
168°	4.5	4.4	4.4	4.4	5.0	5.4	5.6	5.7	6.4	7.1	8.0
168.5°	4.5	4.4	4.4	4.4	4.7	5.1	5.2	5.2	5.9	6.7	7.6
169°	4.4	4.4	4.4	4.4	4.4	4.7	4.8	4.8	5.4	6.4	7.2
169.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.5	5.2	6.1	6.8
170°	4.4	4.3	4.3	4.4	4.4	4.4	4.4	4.4	5.1	5.9	6.5
170.5°	4.4	4.3	4.3	4.3	4.4	4.4	4.4	4.4	5.0	5.7	6.2
171°	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.9	5.5	5.9
171.5°	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.8	5.3	5.7
172°	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.7	5.2	5.5
172.5°	4.3	4.2	4.3	4.3	4.4	4.4	4.5	4.5	4.7	5.0	5.4
173°	4.2	4.2	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.9	5.2
173.5°	4.2	4.2	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.9	5.1
174°	4.2	4.2	4.2	4.2	4.3	4.4	4.5	4.5	4.6	4.8	5.0
174.5°	4.2	4.1	4.2	4.2	4.3	4.4	4.5	4.6	4.6	4.8	4.9
175°	4.1	4.1	4.2	4.2	4.3	4.4	4.5	4.6	4.6	4.7	4.9
175.5°	4.1	4.1	4.2	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8
176°	4.1	4.1	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8
176.5°	4.0	4.0	4.1	4.2	4.2	4.4	4.5	4.6	4.6	4.7	4.8
177°	4.0	4.0	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
177.5°	4.0	4.0	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
178°	3.9	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
178.5°	3.9	3.9	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8
179°	3.9	3.9	3.9	4.0	4.1	4.3	4.4	4.5	4.6	4.8	4.9
179.5°	3.9	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.7	4.8	4.9



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1



REPORT NUMBER: P973042
 CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	3901.1	3901.1	3901.1	3901.1
0.5°	3965.6	3973.5	3974.6	3962.2
1°	4001.4	4001.2	3996.8	3923.1
1.5°	3949.9	3921.8	3903.3	3782.8
2°	3828.9	3776.7	3746.5	3606.4
2.5°	3666.2	3614.1	3586.2	3503.2
3°	3558.4	3532.2	3527.1	3500.6
3.5°	3523.9	3530.4	3543.6	3526.9
4°	3543.2	3559.6	3556.1	3490.2
4.5°	3555.3	3527.4	3482.0	3350.3
5°	3500.6	3406.8	3327.2	3188.5
5.5°	3371.2	3244.0	3188.7	3132.4
6°	3230.2	3169.5	3176.6	3212.9
6.5°	3171.9	3213.9	3288.5	3365.8
7°	3209.0	3344.1	3436.2	3476.0
7.5°	3326.7	3472.7	3515.1	3461.8
8°	3449.0	3510.1	3476.9	3357.7
8.5°	3515.8	3447.3	3376.4	3299.2
9°	3481.8	3364.1	3344.6	3366.0
9.5°	3405.2	3353.1	3433.3	3553.8
10°	3350.5	3452.5	3629.3	3756.5
10.5°	3382.7	3632.9	3816.5	3847.6
11°	3496.6	3808.1	3882.3	3805.2
11.5°	3672.8	3878.7	3835.2	3709.8
12°	3809.9	3835.8	3744.1	3690.3
12.5°	3858.2	3752.4	3731.6	3784.4
13°	3825.7	3721.9	3821.4	3915.2
13.5°	3747.7	3785.9	3946.2	3981.3
14°	3705.0	3892.8	4012.9	3990.9
14.5°	3747.0	3977.7	4030.9	3999.4
15°	3834.5	4020.2	4049.9	4053.8
15.5°	3918.4	4037.6	4112.8	4199.7
16°	3971.3	4074.4	4243.2	4397.8
16.5°	4001.1	4166.0	4438.5	4612.6
17°	4024.0	4320.1	4648.5	4797.8
17.5°	4069.0	4523.1	4851.6	4939.7
18°	4166.0	4724.1	5002.4	5049.4
18.5°	4315.2	4893.9	5111.8	5161.0
19°	4497.4	5022.6	5219.4	5302.8
19.5°	4684.4	5123.1	5358.2	5482.2
20°	4828.4	5221.2	5530.6	5667.8
20.5°	4944.4	5358.5	5702.2	5822.0
21°	5032.1	5521.7	5845.2	5940.0
21.5°	5119.8	5676.9	5960.1	6029.3
22°	5234.5	5792.4	6046.1	6096.0



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	5370.3	5875.6	6111.5	6128.9
23°	5503.2	5947.5	6148.7	6141.1
23.5°	5613.8	6001.8	6153.0	6134.3
24°	5687.9	6040.2	6137.9	6113.3
24.5°	5726.4	6038.1	6114.5	6092.8
25°	5765.8	6018.2	6100.5	6061.7
25.5°	5810.7	5988.4	6089.3	6028.9
26°	5826.1	5972.5	6064.8	5991.3
26.5°	5824.7	5967.7	6026.5	5966.0
27°	5805.8	5950.5	5981.8	5946.7
27.5°	5770.5	5910.1	5960.9	5903.4
28°	5747.9	5850.2	5937.8	5851.5
28.5°	5732.1	5806.6	5902.6	5791.7
29°	5711.3	5794.0	5847.0	5735.4
29.5°	5681.4	5779.5	5778.6	5677.2
30°	5633.9	5731.1	5715.8	5631.8
30.5°	5580.5	5651.0	5667.3	5583.9
31°	5544.6	5585.7	5632.1	5532.0
31.5°	5517.3	5542.0	5593.5	5475.4
32°	5486.4	5515.1	5531.3	5414.3
32.5°	5429.8	5477.4	5452.4	5366.3
33°	5356.5	5418.6	5385.5	5311.7
33.5°	5301.1	5346.7	5329.9	5234.8
34°	5259.4	5281.8	5272.6	5142.5
34.5°	5217.4	5227.2	5193.9	5067.9
35°	5161.7	5185.3	5123.1	5017.8
35.5°	5093.7	5138.9	5065.1	4987.5
36°	5030.2	5083.6	5024.6	4972.0
36.5°	4978.9	5025.2	5006.9	4975.7
37°	4935.0	4981.7	5000.0	4994.4
37.5°	4900.8	4949.7	5009.3	5016.3
38°	4863.9	4937.3	5027.5	5049.5
38.5°	4824.6	4936.5	5057.4	5083.1
39°	4782.1	4940.9	5094.0	5123.0
39.5°	4743.7	4960.5	5135.5	5161.9
40°	4719.5	4987.1	5180.5	5200.7
40.5°	4704.1	5020.9	5227.7	5237.8
41°	4698.4	5057.2	5270.7	5269.5
41.5°	4697.5	5092.6	5299.5	5300.6
42°	4709.5	5120.5	5325.1	5318.2
42.5°	4723.7	5146.1	5351.7	5348.2
43°	4731.6	5165.2	5384.3	5380.9
43.5°	4744.6	5181.2	5409.6	5405.8
44°	4758.4	5201.5	5426.3	5423.5
44.5°	4769.1	5214.2	5451.0	5419.4



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	4781.0	5224.1	5456.6	5411.8
45.5°	4791.7	5234.1	5446.0	5379.3
46°	4800.0	5236.8	5426.8	5345.9
46.5°	4801.7	5234.2	5382.8	5287.2
47°	4805.1	5215.3	5339.0	5237.1
47.5°	4801.7	5192.5	5290.1	5180.8
48°	4793.2	5148.2	5242.1	5143.3
48.5°	4784.5	5104.3	5197.4	5097.3
49°	4767.6	5056.1	5140.0	5036.9
49.5°	4748.4	5015.0	5080.3	4967.1
50°	4721.0	4963.5	5007.3	4897.8
50.5°	4697.4	4916.4	4938.1	4843.2
51°	4653.4	4862.3	4870.6	4796.9
51.5°	4609.8	4796.7	4816.0	4756.8
52°	4560.9	4732.6	4762.4	4715.7
52.5°	4515.9	4674.4	4718.2	4678.8
53°	4472.6	4622.3	4671.9	4628.0
53.5°	4426.3	4574.0	4617.0	4576.9
54°	4379.3	4520.7	4567.5	4530.8
54.5°	4324.7	4476.3	4517.4	4479.0
55°	4270.9	4427.3	4464.1	4412.8
55.5°	4221.1	4379.1	4390.7	4332.3
56°	4178.4	4315.7	4308.7	4248.7
56.5°	4131.3	4246.6	4220.3	4155.2
57°	4072.2	4167.7	4139.2	4080.2
57.5°	4005.7	4097.9	4062.1	4011.4
58°	3940.6	4013.2	3986.9	3936.9
58.5°	3878.3	3938.6	3911.8	3865.0
59°	3810.0	3861.0	3834.4	3783.4
59.5°	3732.8	3779.3	3749.9	3690.6
60°	3655.2	3694.7	3659.3	3582.6
60.5°	3577.1	3614.4	3564.2	3478.4
61°	3498.7	3521.7	3460.6	3375.2
61.5°	3423.9	3431.8	3363.1	3278.7
62°	3339.0	3337.0	3267.3	3196.2
62.5°	3258.1	3248.5	3180.3	3123.0
63°	3178.5	3163.4	3113.7	3070.6
63.5°	3096.3	3089.5	3052.7	3021.3
64°	3016.8	3013.9	2995.4	2967.3
64.5°	2945.0	2953.4	2935.8	2908.7
65°	2877.1	2893.7	2875.4	2850.5
65.5°	2809.5	2827.7	2806.5	2771.4
66°	2744.8	2757.1	2733.3	2681.9
66.5°	2680.3	2686.7	2657.2	2596.0
67°	2611.3	2609.4	2573.7	2516.0



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	2544.5	2528.3	2492.2	2441.8
68°	2473.1	2448.3	2425.6	2375.4
68.5°	2395.5	2377.6	2362.2	2310.5
69°	2318.8	2306.4	2298.3	2250.3
69.5°	2247.9	2239.9	2235.1	2183.5
70°	2177.7	2171.3	2166.3	2109.1
70.5°	2108.9	2103.7	2094.8	2036.1
71°	2039.3	2036.6	2024.6	1965.2
71.5°	1971.5	1965.2	1952.1	1894.5
72°	1901.2	1896.5	1880.9	1830.8
72.5°	1834.1	1830.4	1813.5	1767.4
73°	1768.3	1758.3	1744.7	1697.9
73.5°	1703.5	1686.3	1674.1	1627.7
74°	1636.1	1619.9	1602.3	1559.1
74.5°	1565.3	1554.0	1529.4	1479.6
75°	1499.3	1479.3	1458.7	1402.5
75.5°	1431.6	1410.0	1388.0	1326.6
76°	1363.8	1340.6	1317.3	1250.6
76.5°	1296.1	1271.3	1246.5	1178.3
77°	1228.4	1202.0	1175.8	1110.0
77.5°	1160.9	1132.8	1103.4	1042.0
78°	1099.0	1066.6	1036.1	977.6
78.5°	1036.3	1001.7	969.4	917.5
79°	972.0	937.6	906.7	859.5
79.5°	909.1	872.1	847.3	800.4
80°	845.7	813.2	793.3	750.8
80.5°	787.2	758.1	740.2	702.1
81°	732.2	707.7	692.7	656.3
81.5°	677.9	661.6	650.5	616.2
82°	629.4	617.6	608.7	577.2
82.5°	582.6	574.4	566.2	538.2
83°	539.4	536.9	529.0	499.1
83.5°	500.2	498.4	491.6	460.1
84°	464.3	459.7	453.8	421.1
84.5°	430.8	425.0	419.1	388.5
85°	399.6	393.7	386.3	357.3
85.5°	369.8	361.7	356.1	330.6
86°	342.3	333.9	329.3	306.2
86.5°	316.9	308.7	303.6	284.0
87°	293.3	285.1	281.2	264.2
87.5°	270.3	264.9	262.8	247.1
88°	250.9	246.4	245.6	231.4
88.5°	232.8	229.6	230.0	218.1
89°	217.4	215.9	216.9	206.1
89.5°	203.1	203.1	204.7	195.3



REPORT NUMBER: P973042
 CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	190.7	191.7	193.7	186.1
90.5°	179.9	182.5	185.1	177.9
91°	171.2	174.3	177.1	170.7
91.5°	162.8	167.1	170.0	164.8
92°	154.9	160.6	164.4	159.4
92.5°	150.3	154.0	158.3	153.3
93°	145.8	147.8	152.2	147.6
93.5°	141.3	144.8	147.3	143.6
94°	136.7	141.8	145.0	140.8
94.5°	132.2	138.8	142.7	138.4
95°	129.7	135.9	140.4	136.6
95.5°	127.7	133.8	138.2	134.8
96°	125.7	131.9	135.9	132.8
96.5°	124.0	130.5	134.4	131.5
97°	122.7	129.2	133.2	130.7
97.5°	121.4	128.1	132.2	129.9
98°	120.4	127.3	131.3	129.0
98.5°	119.5	126.4	130.4	128.0
99°	118.6	125.6	129.5	127.4
99.5°	117.8	124.8	128.7	126.6
100°	117.1	123.9	127.8	125.6
100.5°	116.4	123.2	126.9	124.6
101°	115.0	122.3	126.0	123.6
101.5°	113.8	120.5	124.4	121.3
102°	113.5	118.9	122.0	119.5
102.5°	113.9	118.6	120.7	118.6
103°	113.7	119.1	120.6	119.0
103.5°	113.4	118.8	120.9	118.9
104°	113.0	118.1	120.4	118.4
104.5°	112.6	117.6	119.8	117.6
105°	112.3	117.0	119.0	116.9
105.5°	112.1	116.5	118.3	116.2
106°	111.8	116.1	117.6	115.5
106.5°	111.7	115.7	117.1	115.0
107°	111.5	115.4	116.7	114.5
107.5°	111.3	115.1	116.3	114.1
108°	110.9	114.7	115.8	113.5
108.5°	110.5	114.2	115.3	112.8
109°	110.0	113.6	114.5	112.0
109.5°	109.4	112.9	113.8	111.1
110°	108.8	112.2	113.0	110.0
110.5°	108.3	111.4	112.1	109.0
111°	107.7	110.8	111.2	108.1
111.5°	107.2	110.1	110.3	107.2
112°	106.7	109.4	109.5	106.3



REPORT NUMBER: P973042
 CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	106.2	108.7	108.7	105.3
113°	105.7	108.0	107.8	104.5
113.5°	105.3	107.3	107.1	103.8
114°	105.0	106.6	106.3	103.2
114.5°	104.8	106.0	105.6	102.5
115°	104.7	105.6	105.0	101.9
115.5°	104.6	105.1	104.3	101.2
116°	104.6	104.8	103.8	100.5
116.5°	104.5	104.7	103.3	100.0
117°	104.5	104.5	103.0	99.6
117.5°	104.5	104.5	102.7	99.3
118°	104.4	104.4	102.6	99.1
118.5°	104.4	104.4	102.4	98.9
119°	104.4	104.4	102.3	98.8
119.5°	104.4	104.5	102.3	98.8
120°	104.3	104.5	102.3	98.9
120.5°	104.2	104.5	102.5	99.0
121°	104.2	104.5	102.5	99.2
121.5°	104.2	104.5	102.6	99.3
122°	104.1	104.4	102.6	99.4
122.5°	104.1	104.5	102.6	99.6
123°	104.1	104.5	102.6	99.8
123.5°	104.1	104.5	102.7	100.0
124°	104.0	104.5	102.8	100.1
124.5°	104.0	104.6	102.9	100.4
125°	104.0	104.7	103.0	100.6
125.5°	104.0	104.8	103.1	100.9
126°	104.1	104.8	103.3	101.1
126.5°	104.1	105.0	103.4	101.4
127°	104.2	105.1	103.5	101.4
127.5°	104.2	105.3	103.5	101.4
128°	104.2	105.4	103.5	101.5
128.5°	104.3	105.5	103.5	101.5
129°	104.4	105.6	103.5	101.5
129.5°	104.4	105.7	103.5	101.5
130°	104.4	105.8	103.5	101.4
130.5°	104.4	105.8	103.4	101.3
131°	104.4	105.8	103.4	101.2
131.5°	104.3	105.8	103.3	101.1
132°	104.2	105.6	103.2	101.0
132.5°	104.1	105.4	102.9	100.7
133°	103.9	105.3	102.7	100.3
133.5°	103.7	105.0	102.3	99.9
134°	103.4	104.7	101.9	99.4
134.5°	103.1	104.3	101.4	98.7



REPORT NUMBER: P973042
 CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	102.6	103.9	100.8	98.1
135.5°	102.2	103.4	100.3	97.3
136°	101.8	102.9	99.8	96.6
136.5°	101.3	102.3	99.1	95.8
137°	100.7	101.7	98.4	94.9
137.5°	100.1	101.1	97.7	94.0
138°	99.3	100.4	96.9	92.9
138.5°	98.4	99.7	96.1	91.9
139°	96.9	99.0	95.3	90.9
139.5°	96.2	98.2	94.5	90.2
140°	95.5	97.2	93.8	89.3
140.5°	94.9	96.2	92.9	88.5
141°	94.3	94.8	92.0	87.4
141.5°	93.6	93.6	90.9	86.2
142°	92.9	92.9	89.8	84.9
142.5°	92.1	92.3	87.7	82.2
143°	91.2	91.6	86.7	81.4
143.5°	90.3	90.9	86.0	80.9
144°	89.3	90.2	85.2	80.2
144.5°	88.3	89.3	84.4	79.6
145°	87.3	88.5	83.6	79.0
145.5°	86.2	87.6	82.7	78.2
146°	85.1	86.6	81.8	77.5
146.5°	83.9	85.7	80.9	76.7
147°	82.8	84.6	79.9	75.9
147.5°	81.6	83.5	78.9	75.1
148°	80.3	82.4	77.9	74.3
148.5°	79.1	81.2	76.9	73.4
149°	77.7	79.9	75.9	72.5
149.5°	76.4	78.7	74.8	71.5
150°	75.0	77.4	73.7	70.6
150.5°	73.5	76.0	72.6	69.6
151°	72.0	74.6	71.4	68.6
151.5°	70.7	73.2	70.4	67.5
152°	69.2	71.7	69.1	66.3
152.5°	67.8	70.2	67.8	65.2
153°	66.3	68.7	66.5	63.9
153.5°	64.7	67.2	65.1	63.4
154°	63.1	65.6	63.8	62.2
154.5°	61.6	64.1	62.5	60.9
155°	60.0	62.5	61.2	59.7
155.5°	58.4	61.0	59.8	58.5
156°	56.9	59.4	58.5	57.2
156.5°	55.2	57.8	57.1	55.9
157°	53.4	56.2	55.8	54.6



REPORT NUMBER: P973042
 CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	51.8	54.5	54.5	53.3
158°	50.2	52.8	53.0	51.9
158.5°	48.5	51.1	51.5	50.4
159°	46.9	49.4	50.1	48.9
159.5°	45.3	47.7	48.6	47.3
160°	43.5	46.1	47.0	45.9
160.5°	41.8	44.5	45.5	44.4
161°	39.7	42.9	44.1	42.9
161.5°	36.8	41.2	42.6	41.5
162°	34.1	39.5	41.1	40.0
162.5°	31.3	37.2	39.6	38.4
163°	28.4	34.0	37.8	36.7
163.5°	25.9	31.2	35.3	34.0
164°	23.4	28.3	32.2	31.1
164.5°	21.1	25.5	29.2	28.1
165°	18.9	22.9	26.4	25.3
165.5°	16.9	20.5	23.7	22.6
166°	14.8	18.4	21.1	20.1
166.5°	12.8	16.3	18.9	17.9
167°	10.8	14.1	16.7	15.7
167.5°	8.9	12.0	14.5	13.6
168°	8.4	9.9	12.3	11.3
168.5°	8.0	7.9	10.1	8.9
169°	7.5	7.5	8.0	6.8
169.5°	7.2	7.2	7.4	6.5
170°	6.8	6.9	7.2	6.1
170.5°	6.5	6.6	6.9	5.8
171°	6.2	6.4	6.7	5.5
171.5°	6.0	6.2	6.5	5.3
172°	5.8	6.0	6.3	5.0
172.5°	5.6	5.8	6.2	4.8
173°	5.4	5.6	6.0	4.7
173.5°	5.3	5.4	5.8	4.5
174°	5.2	5.3	5.7	4.4
174.5°	5.1	5.2	5.4	4.2
175°	5.0	5.1	5.2	4.1
175.5°	4.9	5.1	5.2	4.0
176°	4.9	5.0	5.1	3.9
176.5°	4.8	5.0	5.1	3.8
177°	4.8	4.9	5.1	3.8
177.5°	4.9	5.0	5.1	3.8
178°	4.9	5.0	5.2	3.8
178.5°	4.9	5.0	5.2	3.9
179°	4.9	5.1	5.3	3.9
179.5°	5.0	5.1	5.3	4.0



REPORT NUMBER: P973042
CATALOG NUMBER: WP-6984-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
180°	4.1	4.1	4.1	4.1

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2410-249-3

Test Date: 10/24/2024

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

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

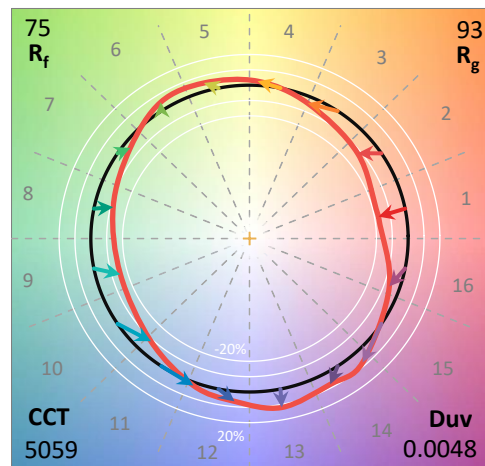
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2410-249-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/24/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **WP-6984-5000K-H (100W)**
 Description: DIALITE SQLED WALL PACK SAMPLE 100w-5000K HIGH OUTPUT

Spectral Parameters

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

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



Test Conditions

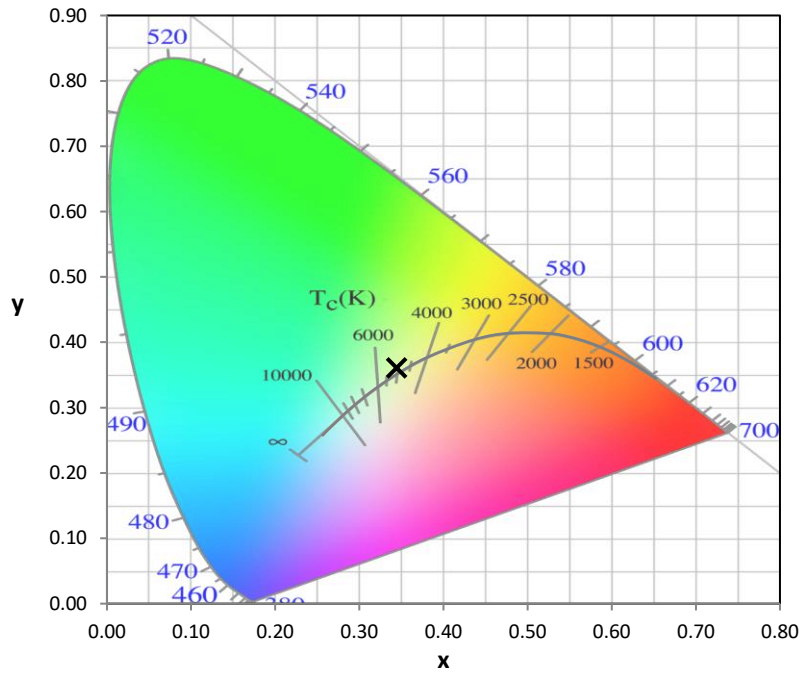
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-3

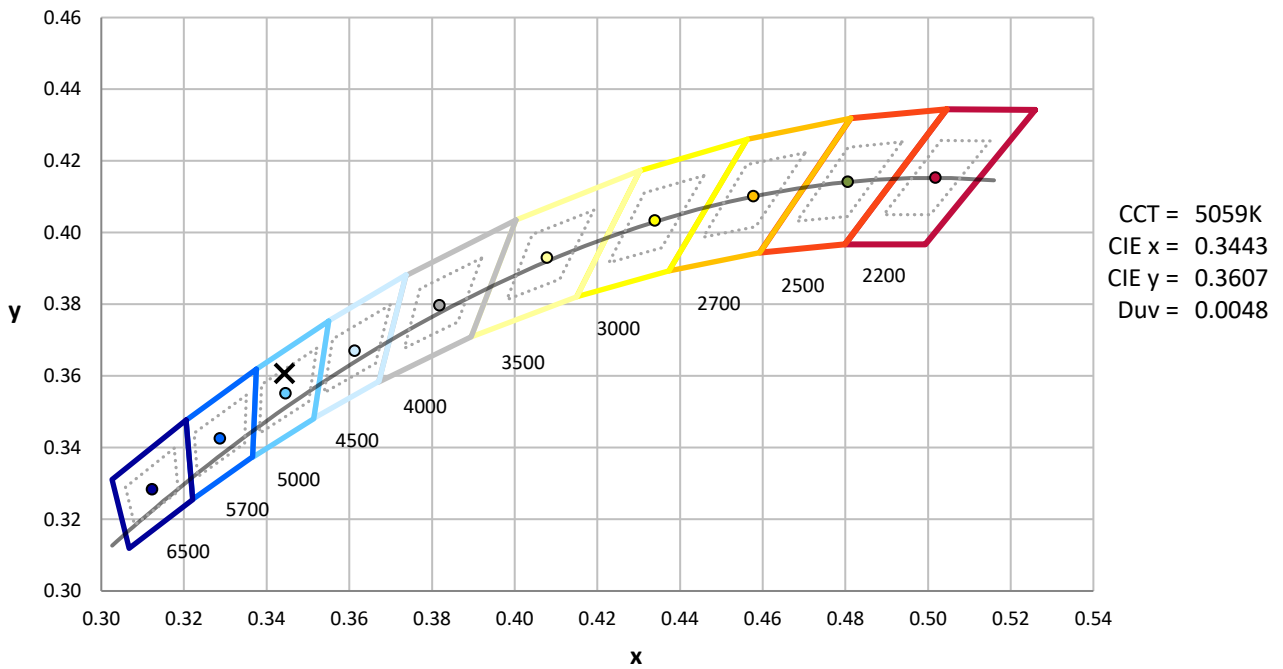
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2410-249-3

CIE 1931 Chromaticity Diagram



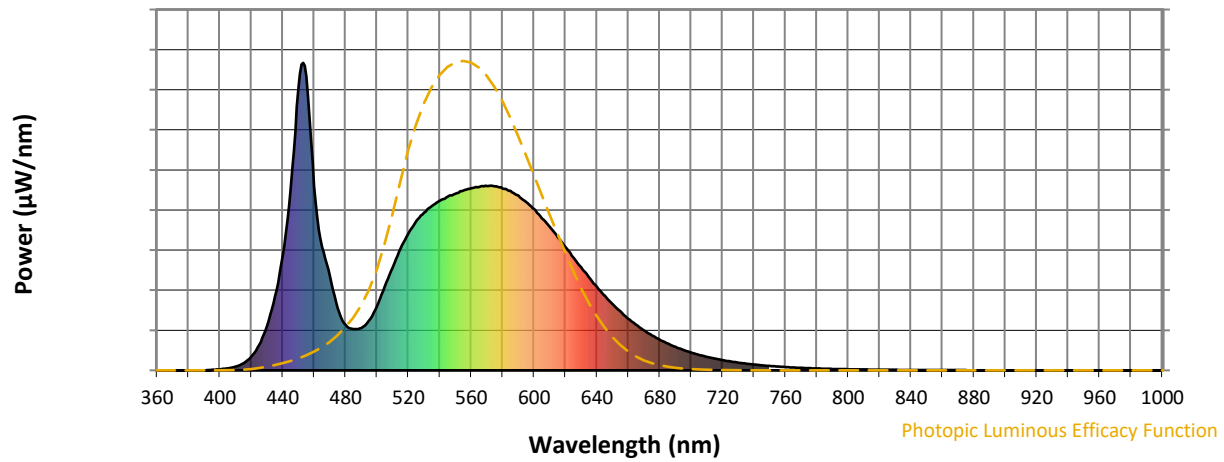
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-3

Photopic Flux vs. Wavelength

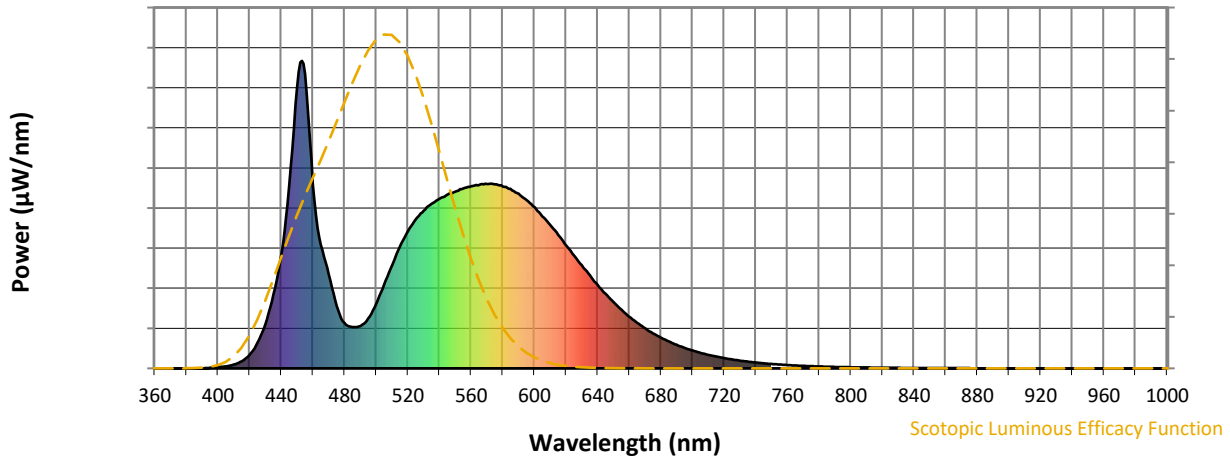


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2410-249-3

Scotopic Flux vs. Wavelength



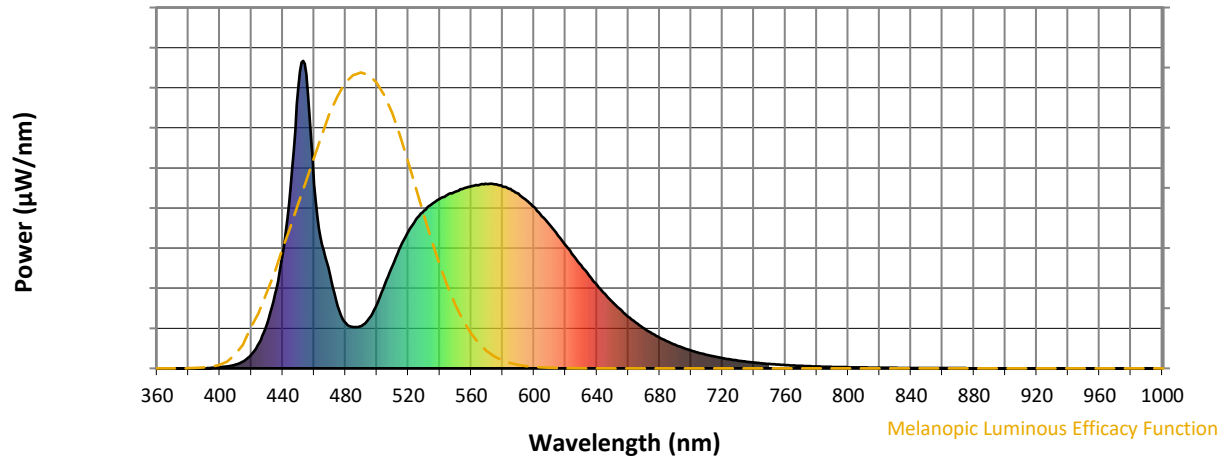
Scotopic Lumens: NR

S/P: 1.82

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

REPORT NUMBER: SP1-2410-249-3

Melanopic Flux vs. Wavelength



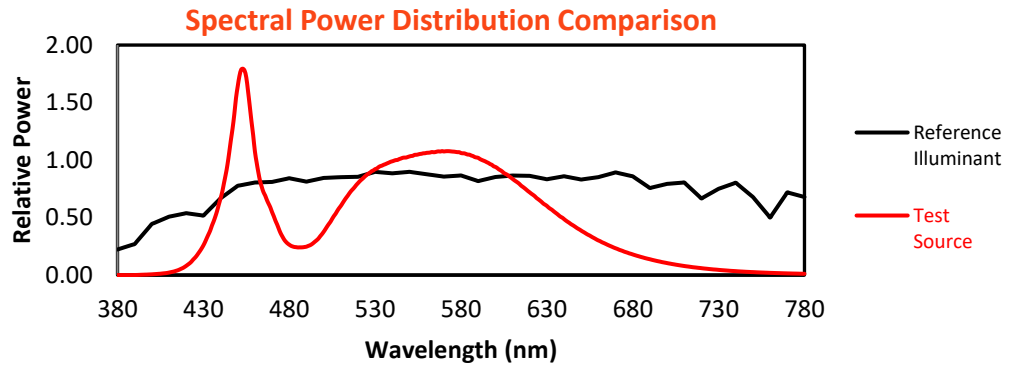
Melanopic Lumens: NR

M/P: 3.76

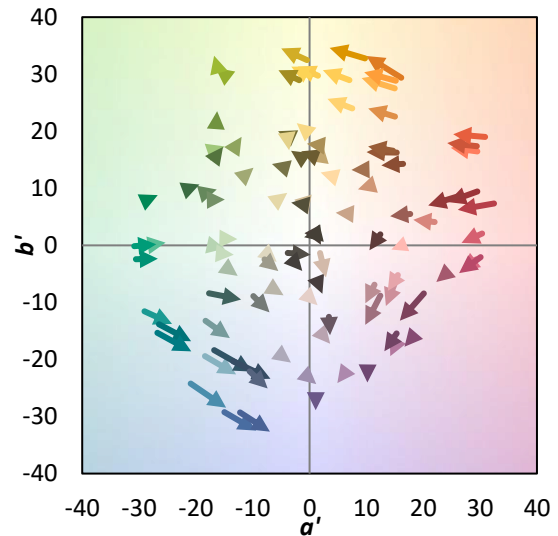
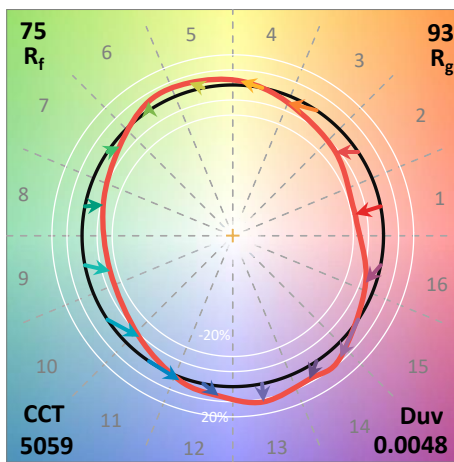
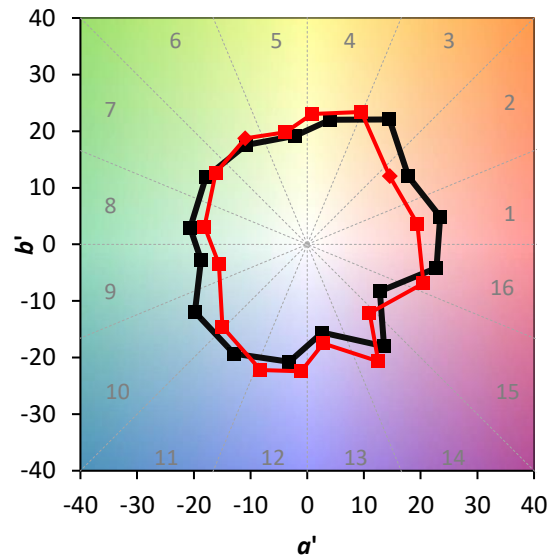
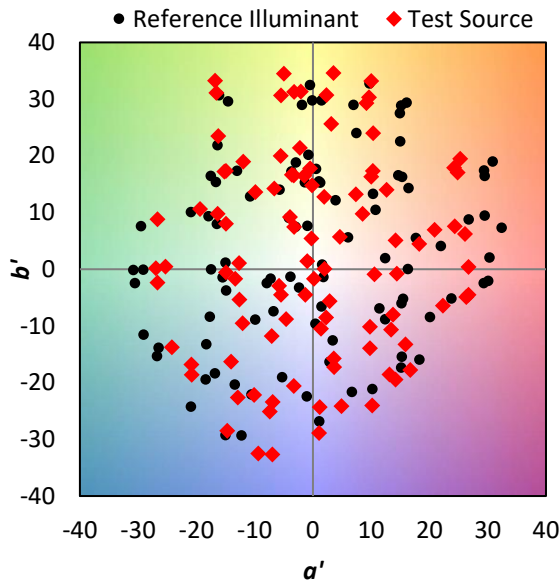
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	138	NR	620	401	NR	750	14	NR	880	1	NR
365	0	NR	495	162	NR	625	367	NR	755	12	NR	885	0	NR
370	0	NR	500	209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

Summary

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

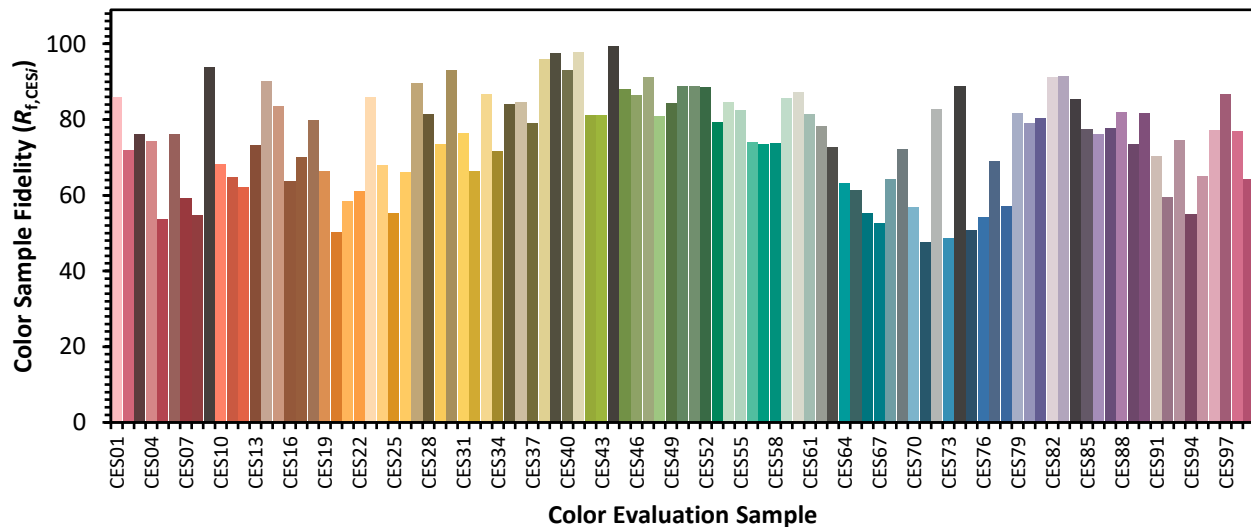


Color Vector Graphics

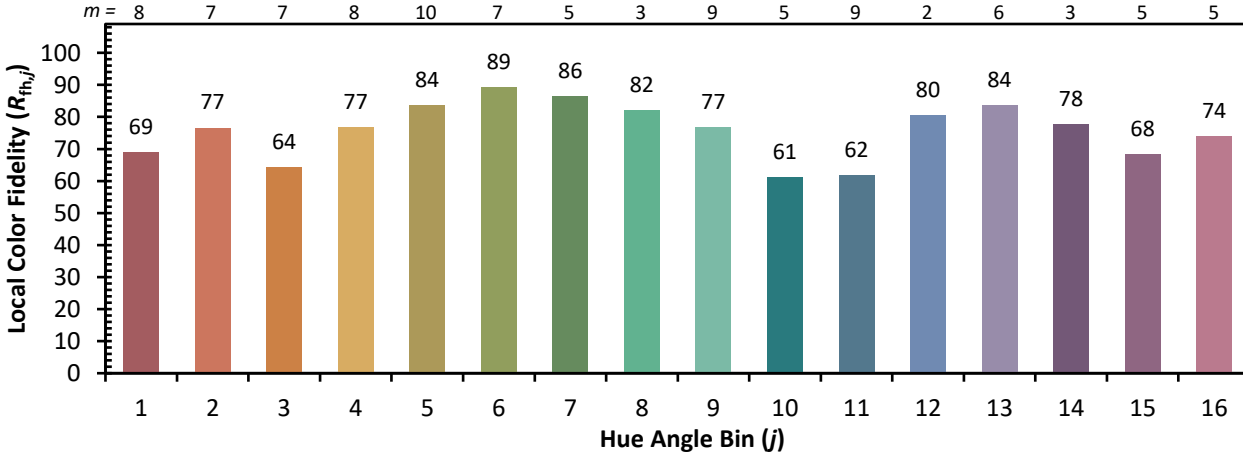
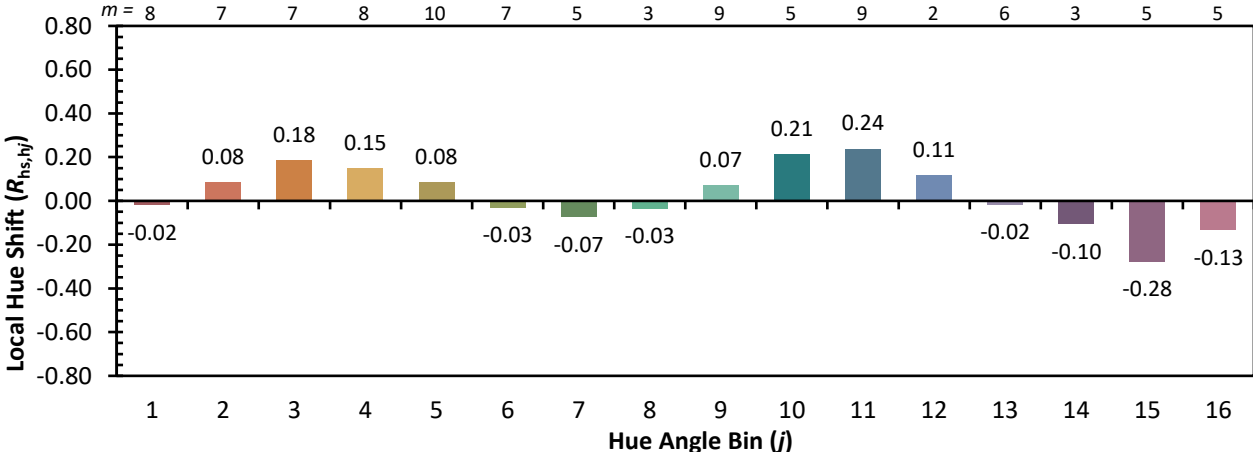
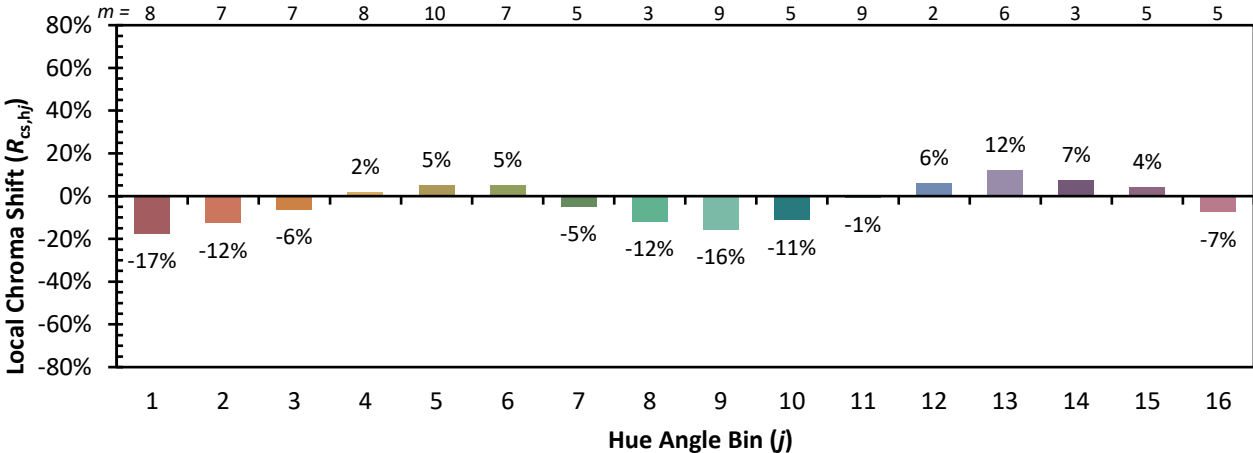


Individual Sample Fidelity Index ($R_{f,i}$)

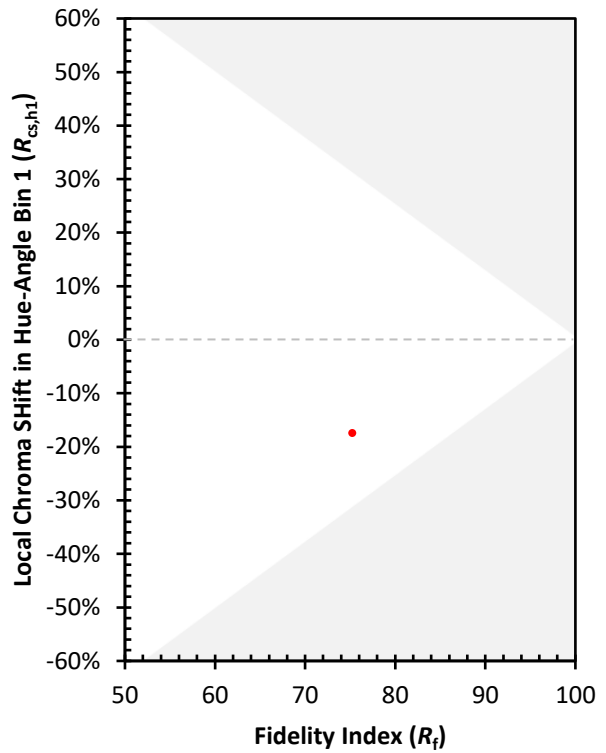
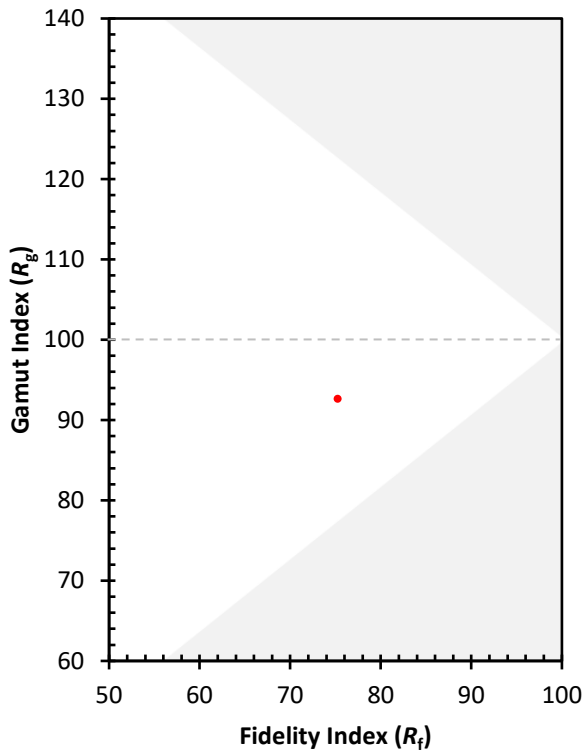
CES01 = 85	CES26 = 66	CES51 = 89	CES76 = 54
CES02 = 59	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 81	CES53 = 79	CES78 = 57
CES04 = 69	CES29 = 74	CES54 = 85	CES79 = 82
CES05 = 46	CES30 = 93	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 76	CES56 = 74	CES81 = 80
CES07 = 39	CES32 = 66	CES57 = 74	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)