

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: P973043

Luminaire Tested: **WP-6984-90W-3000K**

Issue Date: 03/12/2025



Test Information

Test Method: LM-79-08
Report Number: P973043
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 03/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WP-6984-90W-3000K
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @90W-3000K
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

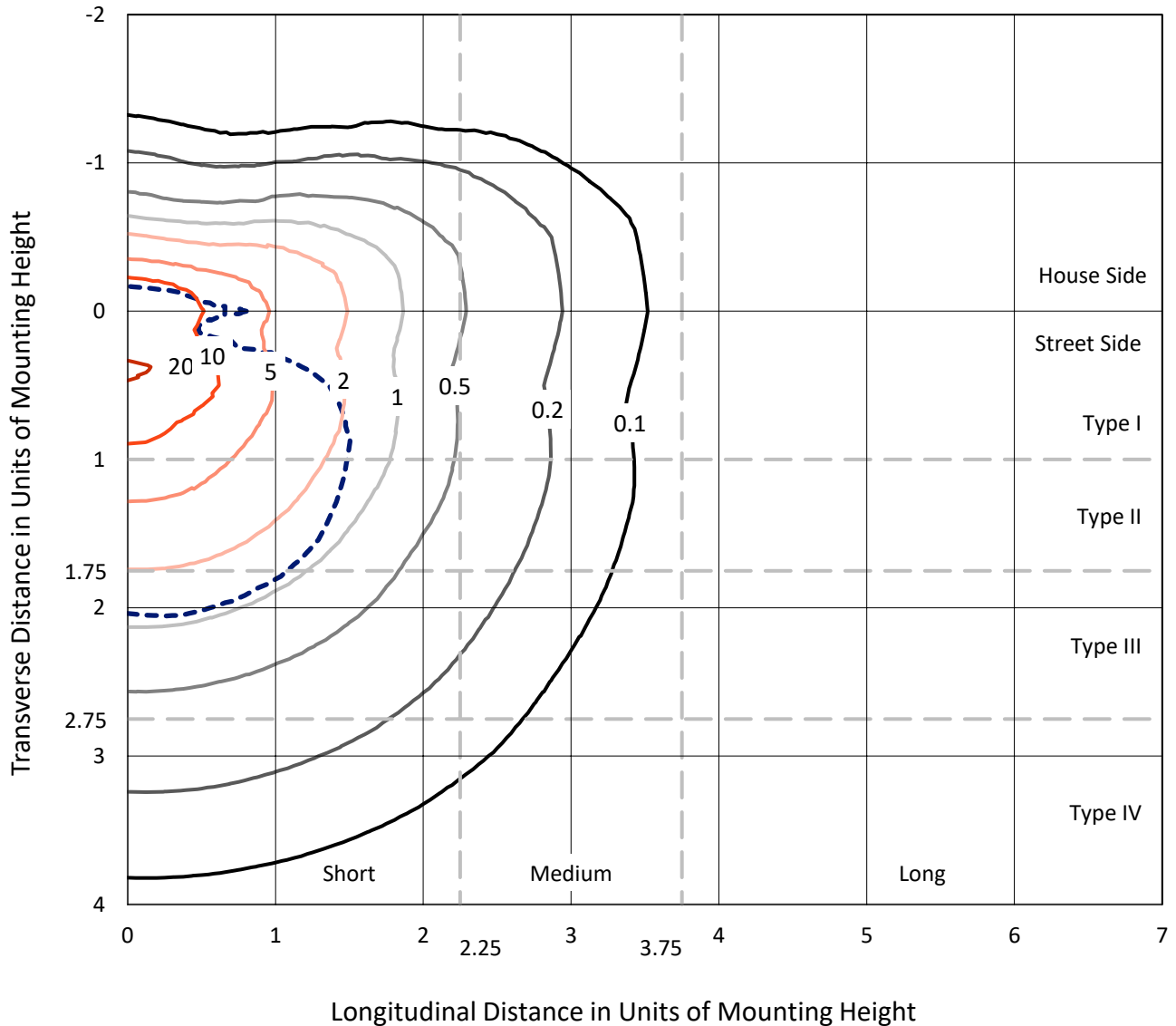
Lumens per Lamp: N/A
Luminaire Lumens: 11422.4 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G2

Input Watts (W): 90.2
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

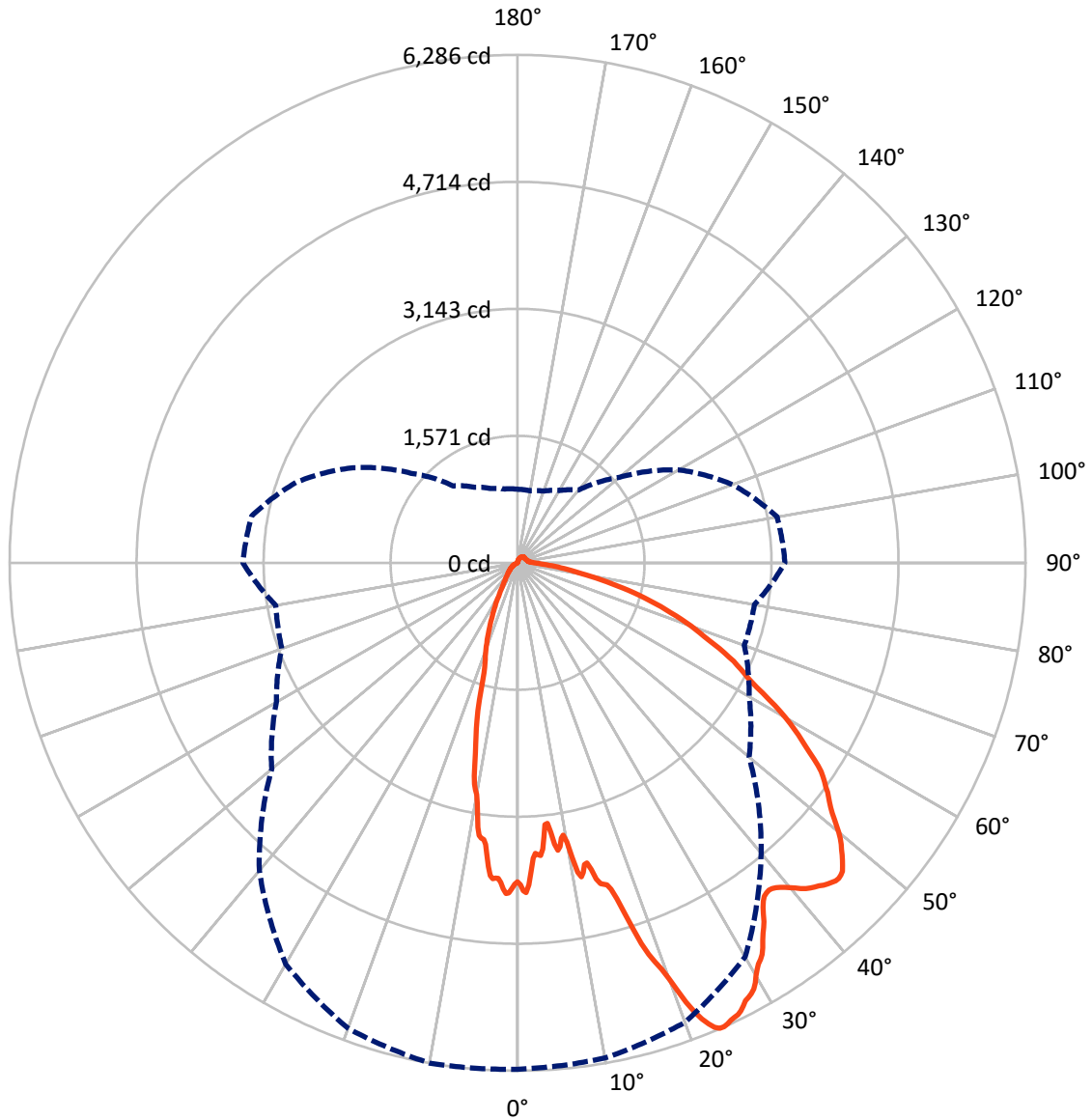
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 21.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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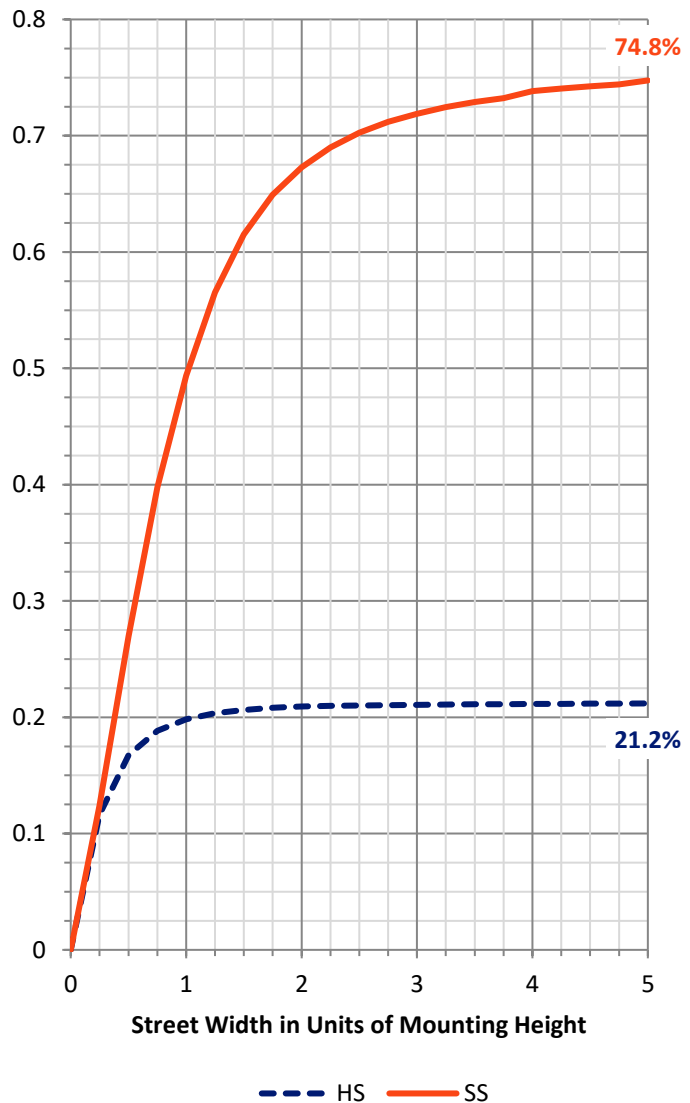
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2448.1	58.0	2506.2
	% Fixture	21.4	0.5	21.9
Street Side	Lumens	8631.5	284.7	8916.2
	% Fixture	75.6	2.5	78.1
Total	Lumens	11079.6	342.8	11422.4
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.3	3.1
10°-20°	925.3	8.1
20°-30°	1451.3	12.7
30°-40°	1752.2	15.3
40°-50°	1995.9	17.5
50°-60°	1982.4	17.4
60°-70°	1517.5	13.3
70°-80°	845.7	7.4
80°-90°	259.0	2.3
90°-100°	77.0	0.7
100°-110°	62.4	0.5
110°-120°	57.3	0.5
120°-130°	51.7	0.5
130°-140°	44.6	0.4
140°-150°	30.9	0.3
150°-160°	14.8	0.1
160°-170°	3.6	0.0
170°-180°	0.5	0.0
0°-90°	11079.6	97.0
0°-180°	11422.4	100.0

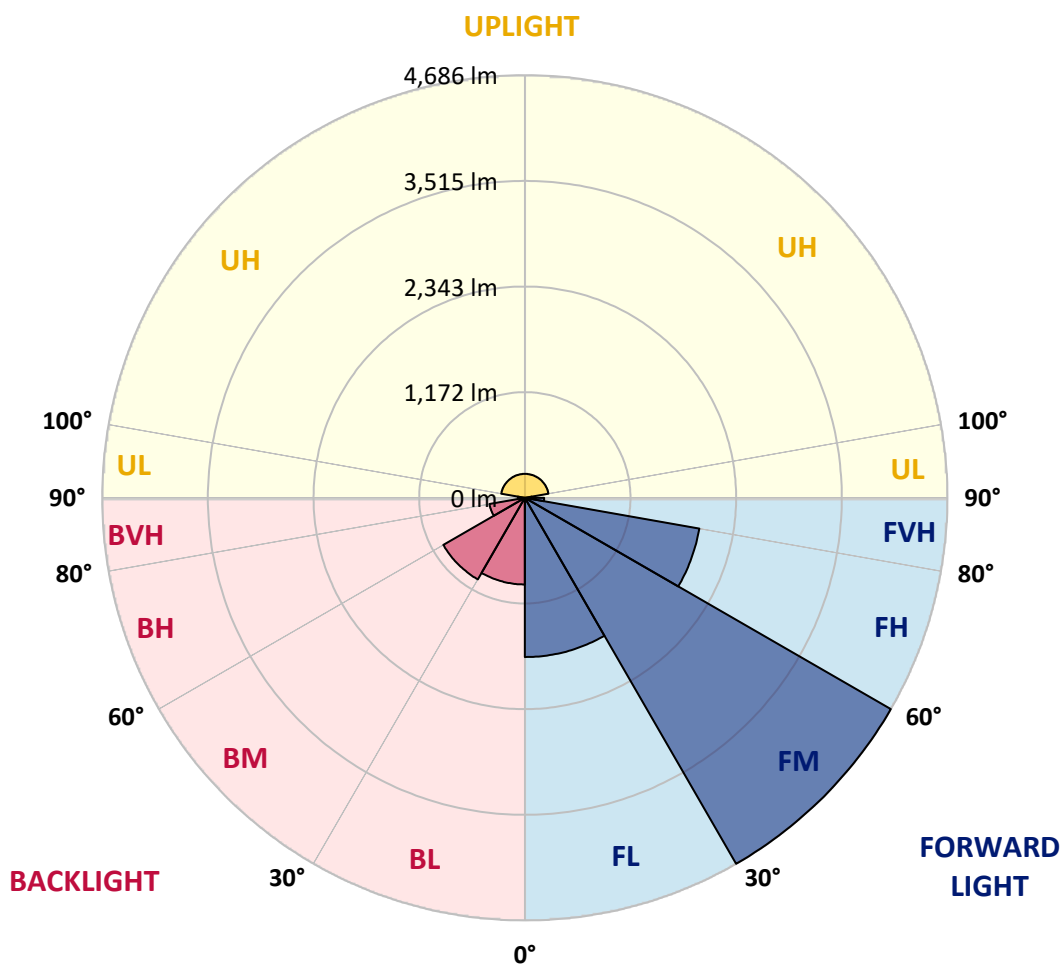


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1766.1	15.5			
FM (30°-60°)	4686.4	41.0			
FH (60°-80°)	1965.3	17.2			G2/5000
FVH (80°-90°)	213.7	1.9			G2/225
BL (0°-30°)	960.8	8.4	B2/1000		
BM (30°-60°)	1044.1	9.1	B2/2500		
BH (60°-80°)	398.0	3.5	B1/500		G1/500
BVH (80°-90°)	45.2	0.4			G1/100
UL (90°-100°)	77.0	0.7		U3/500	
UH (100°-180°)	265.7	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°	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2
0.5°	4047.6	4045.9	4045.7	4046.8	4045.2	4036.9	4027.1	4015.5	4002.3	3989.4	3977.3
1°	4007.6	4011.6	4027.2	4043.4	4061.3	4066.0	4058.3	4042.2	4010.7	3985.4	3964.5
1.5°	3864.4	3875.9	3903.6	3950.3	4000.7	4041.3	4064.2	4056.0	4016.3	3977.1	3946.6
2°	3684.1	3696.6	3734.9	3799.7	3881.2	3964.0	4041.1	4061.8	4028.9	3969.1	3930.1
2.5°	3578.7	3586.0	3603.3	3650.9	3738.2	3858.2	3982.2	4049.6	4036.2	3966.1	3918.6
3°	3576.0	3569.6	3566.8	3575.0	3623.1	3740.3	3900.0	4022.9	4031.7	3955.7	3905.0
3.5°	3602.9	3595.8	3587.4	3568.0	3570.6	3636.5	3806.0	3978.4	4022.5	3943.5	3889.3
4°	3565.5	3576.6	3589.8	3585.6	3560.6	3575.7	3712.7	3923.5	4012.0	3937.9	3882.1
4.5°	3422.5	3453.6	3512.3	3576.6	3570.5	3550.5	3630.7	3862.9	3999.7	3922.4	3873.1
5°	3257.3	3281.6	3355.7	3483.7	3568.8	3544.4	3567.7	3791.6	3978.4	3907.8	3870.3
5.5°	3199.9	3199.1	3218.2	3335.8	3502.8	3553.9	3531.9	3723.2	3957.1	3892.6	3862.3
6°	3282.2	3251.0	3199.5	3213.8	3383.0	3543.6	3507.9	3654.2	3933.6	3877.2	3861.0
6.5°	3438.4	3395.4	3290.5	3192.2	3252.4	3491.5	3503.1	3590.3	3910.6	3862.9	3854.8
7°	3550.9	3531.6	3436.2	3264.9	3178.8	3400.5	3505.4	3536.8	3875.5	3847.7	3850.0
7.5°	3536.4	3546.8	3543.2	3392.7	3182.8	3281.7	3504.8	3495.3	3835.4	3826.3	3839.4
8°	3430.0	3448.6	3515.9	3507.2	3251.8	3185.3	3480.6	3461.7	3801.6	3807.2	3825.3
8.5°	3370.3	3361.1	3409.8	3523.9	3374.6	3131.7	3430.1	3438.5	3761.4	3783.1	3815.8
9°	3438.6	3382.7	3334.8	3446.7	3473.3	3130.2	3352.1	3420.1	3715.8	3768.2	3803.5
9.5°	3630.4	3556.9	3379.3	3348.5	3503.1	3191.8	3258.0	3411.4	3669.6	3757.5	3788.4
10°	3837.5	3766.2	3541.5	3315.6	3446.2	3291.9	3164.2	3406.6	3627.4	3742.6	3778.7
10.5°	3930.6	3899.6	3753.8	3396.7	3348.0	3380.9	3098.2	3402.9	3583.6	3732.6	3766.1
11°	3887.3	3892.4	3880.3	3577.6	3281.9	3433.8	3063.7	3394.2	3544.1	3727.3	3755.7
11.5°	3789.8	3801.7	3868.3	3758.6	3287.2	3424.1	3073.0	3377.4	3508.8	3718.1	3748.2
12°	3769.8	3740.3	3776.8	3855.7	3392.7	3365.9	3117.4	3347.3	3476.1	3710.0	3738.6
12.5°	3866.0	3799.0	3704.8	3835.0	3554.4	3284.7	3180.4	3296.7	3436.1	3702.9	3729.1
13°	3999.6	3930.6	3745.7	3739.7	3708.6	3227.6	3261.6	3246.2	3399.5	3690.2	3715.5
13.5°	4067.1	4020.3	3863.2	3660.0	3791.7	3222.4	3330.0	3181.2	3364.6	3672.6	3699.1
14°	4077.0	4037.5	3959.1	3682.1	3775.1	3283.6	3369.7	3120.0	3330.0	3652.2	3679.8
14.5°	4085.6	4022.0	3983.6	3785.3	3693.9	3413.5	3368.6	3061.5	3298.9	3633.3	3661.1
15°	4141.2	4044.8	3959.0	3875.6	3603.8	3556.3	3334.6	3011.2	3269.0	3619.3	3638.9
15.5°	4290.2	4157.2	3952.5	3910.7	3579.6	3676.9	3279.4	2975.6	3241.5	3600.0	3620.2
16°	4492.6	4337.9	4024.5	3885.1	3643.9	3734.8	3211.9	2956.2	3218.4	3582.4	3599.8
16.5°	4712.1	4557.3	4173.2	3851.3	3744.5	3724.5	3158.5	2957.7	3201.0	3563.9	3577.6
17°	4901.2	4758.3	4365.2	3872.3	3813.5	3660.8	3137.4	2976.5	3186.3	3545.8	3558.1
17.5°	5046.2	4900.8	4556.7	3964.4	3824.4	3578.5	3156.8	3003.9	3173.5	3529.1	3538.6
18°	5158.2	5025.0	4718.3	4119.3	3788.6	3514.8	3214.8	3044.7	3160.9	3509.6	3518.7
18.5°	5272.2	5132.1	4838.6	4294.1	3757.7	3511.7	3315.0	3093.3	3146.6	3491.8	3499.7
19°	5417.1	5248.3	4939.3	4450.7	3764.1	3566.0	3414.7	3132.8	3138.3	3472.1	3481.2
19.5°	5600.4	5405.1	5032.2	4581.4	3834.7	3642.5	3509.8	3169.2	3123.6	3451.5	3462.6
20°	5790.0	5596.7	5144.7	4684.0	3949.6	3689.7	3568.0	3184.8	3112.0	3431.9	3439.5
20.5°	5947.5	5786.0	5309.8	4787.6	4089.0	3693.3	3582.6	3185.1	3097.6	3410.9	3416.4
21°	6068.0	5927.3	5487.4	4883.0	4229.7	3661.3	3548.9	3169.8	3079.2	3393.6	3392.0
21.5°	6159.3	6049.1	5668.7	4985.6	4345.8	3619.7	3486.8	3141.5	3059.8	3375.1	3367.8
22°	6227.4	6144.4	5826.3	5123.2	4441.5	3590.8	3411.6	3098.8	3039.6	3357.4	3341.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	6261.0	6190.8	5941.9	5288.2	4528.0	3603.0	3344.5	3054.0	3020.2	3339.8	3316.2
23°	6273.4	6214.5	6016.6	5463.9	4607.8	3655.9	3304.4	3016.5	2998.3	3324.3	3289.6
23.5°	6266.5	6222.0	6052.1	5630.0	4689.0	3739.9	3309.0	2985.6	2975.7	3308.2	3261.6
24°	6245.1	6218.8	6086.5	5756.0	4770.4	3840.2	3343.5	2970.2	2950.9	3293.2	3236.0
24.5°	6224.2	6199.4	6109.8	5834.1	4869.4	3943.7	3394.1	2970.4	2923.7	3273.9	3210.3
25°	6192.3	6161.7	6110.8	5865.6	5000.3	4040.3	3433.8	2985.1	2899.9	3259.6	3185.1
25.5°	6158.8	6121.2	6082.2	5882.6	5151.5	4121.0	3451.5	3020.4	2871.8	3242.9	3161.7
26°	6120.4	6088.7	6027.6	5917.3	5299.1	4187.9	3439.3	3065.1	2849.9	3227.1	3140.4
26.5°	6094.6	6064.5	5977.7	5938.2	5425.3	4246.5	3409.5	3122.4	2829.4	3214.5	3117.9
27°	6074.9	6036.3	5950.8	5931.8	5505.5	4303.7	3374.6	3177.7	2814.0	3202.8	3096.2
27.5°	6030.6	6003.1	5925.3	5884.0	5524.9	4358.5	3351.6	3217.8	2800.5	3192.6	3076.6
28°	5977.6	5960.1	5906.6	5821.0	5519.8	4412.7	3348.3	3243.4	2788.2	3182.4	3056.9
28.5°	5916.6	5911.5	5876.8	5753.0	5520.5	4482.7	3366.6	3252.2	2780.2	3173.1	3040.5
29°	5859.0	5855.4	5837.7	5717.9	5554.2	4570.8	3406.5	3244.5	2773.0	3162.7	3025.0
29.5°	5799.6	5802.3	5793.4	5696.7	5586.2	4676.6	3461.7	3222.9	2769.0	3154.1	3011.4
30°	5753.2	5752.9	5736.6	5673.4	5578.4	4780.7	3520.1	3194.5	2770.3	3145.8	2997.0
30.5°	5704.3	5718.3	5690.2	5644.1	5526.9	4874.3	3579.8	3159.8	2772.9	3139.1	2983.8
31°	5651.3	5665.4	5656.4	5600.0	5441.9	4941.5	3639.4	3126.6	2778.5	3133.1	2970.7
31.5°	5593.4	5601.4	5630.0	5555.7	5371.9	4969.6	3687.9	3102.4	2783.6	3126.4	2958.9
32°	5531.0	5542.0	5582.2	5502.8	5331.4	4973.6	3725.0	3090.0	2790.8	3120.6	2947.6
32.5°	5482.0	5501.5	5507.6	5450.9	5314.7	4970.0	3758.9	3090.4	2797.9	3114.9	2938.2
33°	5426.2	5471.9	5442.0	5416.8	5292.5	4973.2	3786.8	3102.3	2808.5	3109.5	2927.7
33.5°	5347.6	5415.5	5399.8	5390.5	5258.2	4988.5	3818.1	3121.3	2817.7	3105.1	2915.0
34°	5253.4	5320.2	5381.9	5352.5	5219.5	5007.0	3856.7	3142.5	2826.2	3101.7	2900.4
34.5°	5177.1	5227.3	5346.0	5287.6	5183.9	5008.3	3893.7	3157.7	2831.2	3099.2	2887.4
35°	5125.9	5152.6	5270.9	5210.8	5142.7	4983.1	3932.9	3162.1	2834.6	3094.9	2876.2
35.5°	5095.0	5100.8	5167.6	5142.9	5099.7	4935.5	3980.9	3161.5	2836.1	3091.4	2865.8
36°	5079.2	5071.5	5084.0	5115.8	5050.1	4883.9	4029.7	3150.2	2832.1	3086.9	2853.5
36.5°	5083.0	5071.5	5028.6	5100.0	5009.3	4845.2	4080.3	3135.1	2827.2	3083.8	2842.6
37°	5102.0	5084.5	4993.2	5044.8	4984.7	4815.6	4125.4	3122.2	2820.6	3077.7	2831.6
37.5°	5124.4	5107.6	4974.6	4958.4	4954.3	4791.4	4162.1	3111.7	2812.0	3071.6	2821.1
38°	5158.3	5141.0	4968.7	4864.6	4916.8	4765.8	4190.0	3104.0	2802.4	3062.1	2807.2
38.5°	5192.7	5178.6	4974.7	4802.0	4858.5	4735.2	4207.3	3102.5	2790.8	3051.8	2794.8
39°	5233.4	5222.4	4985.7	4759.9	4803.8	4697.2	4211.9	3105.6	2779.9	3038.8	2780.3
39.5°	5273.2	5265.1	5011.5	4726.4	4768.5	4664.0	4212.4	3111.7	2766.7	3028.1	2765.0
40°	5312.8	5301.8	5043.6	4698.8	4753.5	4635.1	4212.4	3122.5	2755.7	3017.5	2751.2
40.5°	5350.7	5335.5	5074.3	4677.3	4731.3	4608.3	4212.6	3131.0	2747.5	3009.7	2739.5
41°	5383.1	5369.6	5102.7	4667.9	4686.8	4579.7	4210.2	3138.5	2739.9	3003.3	2728.9
41.5°	5414.9	5397.0	5129.5	4662.2	4629.2	4551.6	4204.5	3146.8	2736.4	2997.0	2718.9
42°	5432.8	5429.2	5156.8	4665.7	4576.1	4526.3	4188.0	3155.6	2732.9	2992.8	2710.8
42.5°	5463.5	5450.5	5181.6	4674.7	4536.8	4502.3	4169.1	3162.0	2732.0	2986.4	2702.1
43°	5496.9	5480.5	5215.1	4685.4	4506.6	4477.2	4142.5	3169.8	2732.1	2982.4	2694.3
43.5°	5522.3	5503.8	5242.0	4695.3	4481.0	4449.5	4112.3	3174.9	2734.4	2980.2	2689.7
44°	5540.4	5522.0	5266.2	4700.1	4457.4	4414.9	4085.3	3176.0	2738.0	2977.1	2684.5
44.5°	5536.2	5538.1	5280.7	4711.7	4440.7	4381.7	4061.3	3178.0	2744.0	2973.4	2682.6



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CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	5528.5	5529.6	5292.4	4718.5	4427.4	4355.8	4043.8	3177.0	2750.8	2969.5	2680.6
45.5°	5495.3	5526.0	5294.2	4721.2	4413.2	4329.9	4025.6	3179.0	2752.9	2966.5	2673.5
46°	5461.2	5496.4	5287.2	4722.5	4403.6	4308.8	4009.1	3183.8	2753.4	2959.3	2667.9
46.5°	5401.1	5458.5	5278.5	4718.5	4396.2	4285.9	3994.4	3188.9	2751.7	2951.7	2659.9
47°	5350.0	5400.7	5251.2	4713.4	4389.8	4255.2	3980.4	3193.0	2743.7	2944.0	2651.1
47.5°	5292.5	5346.2	5220.7	4699.1	4383.7	4217.6	3964.9	3198.7	2734.3	2934.5	2643.3
48°	5254.2	5310.9	5170.8	4677.0	4371.9	4182.6	3947.0	3200.5	2721.7	2924.1	2635.6
48.5°	5207.2	5277.0	5128.2	4655.9	4354.3	4148.6	3926.9	3198.9	2707.6	2914.4	2624.7
49°	5145.5	5231.2	5075.5	4633.8	4335.3	4114.8	3903.9	3201.0	2693.9	2904.2	2611.7
49.5°	5074.2	5174.0	5038.8	4606.7	4317.8	4080.4	3881.5	3198.7	2674.7	2892.0	2601.4
50°	5003.4	5095.6	4999.7	4575.8	4293.7	4050.2	3860.7	3199.2	2655.6	2878.3	2588.4
50.5°	4947.6	5026.1	4952.6	4539.1	4271.2	4018.8	3842.0	3199.0	2634.8	2865.4	2575.9
51°	4900.3	4954.5	4888.5	4502.3	4243.9	3982.9	3818.7	3192.4	2611.7	2849.8	2562.2
51.5°	4859.4	4899.5	4830.6	4460.0	4211.6	3946.1	3793.8	3185.5	2586.4	2832.9	2547.6
52°	4817.3	4863.5	4770.4	4420.3	4174.9	3910.1	3767.1	3176.9	2561.7	2814.0	2528.9
52.5°	4779.7	4830.4	4708.9	4379.7	4136.1	3872.5	3740.4	3164.6	2535.3	2798.7	2508.5
53°	4727.7	4790.7	4663.5	4344.9	4096.5	3830.1	3711.0	3149.5	2506.9	2777.3	2488.0
53.5°	4675.5	4731.4	4629.5	4311.1	4054.2	3786.8	3677.9	3134.4	2479.6	2752.5	2467.3
54°	4628.5	4676.3	4605.4	4264.5	4016.1	3745.9	3644.0	3115.6	2450.7	2727.7	2449.1
54.5°	4575.6	4617.6	4564.9	4223.9	3979.4	3703.0	3604.1	3095.2	2421.7	2693.6	2427.0
55°	4507.9	4552.7	4501.1	4187.4	3939.3	3663.0	3561.2	3069.7	2387.9	2659.0	2398.9
55.5°	4425.7	4473.7	4433.4	4151.9	3900.4	3620.5	3518.1	3033.3	2354.9	2625.9	2371.2
56°	4340.3	4391.6	4373.7	4117.5	3854.7	3578.9	3474.7	2992.2	2323.5	2591.1	2344.0
56.5°	4244.7	4299.2	4307.2	4079.3	3814.6	3537.0	3429.9	2948.2	2290.5	2554.2	2317.5
57°	4168.2	4209.0	4226.5	4029.7	3778.2	3499.3	3378.5	2901.4	2255.8	2516.6	2294.3
57.5°	4097.8	4137.6	4146.0	3971.8	3745.3	3460.0	3325.8	2859.0	2221.8	2476.7	2269.8
58°	4021.7	4077.7	4063.3	3906.9	3710.8	3423.4	3270.7	2817.5	2187.8	2437.7	2244.8
58.5°	3948.3	4014.2	3985.7	3838.2	3672.1	3385.8	3215.0	2774.2	2151.2	2397.7	2223.1
59°	3864.9	3943.8	3912.1	3770.6	3618.4	3345.0	3161.5	2724.5	2116.1	2360.3	2202.0
59.5°	3770.1	3860.1	3842.7	3702.2	3557.0	3302.6	3110.0	2675.9	2082.8	2318.9	2172.3
60°	3659.9	3763.7	3772.8	3641.1	3494.4	3257.4	3055.6	2627.6	2047.0	2275.5	2144.2
60.5°	3553.4	3654.5	3691.7	3578.8	3430.2	3205.0	3000.7	2578.2	2011.0	2233.7	2110.8
61°	3447.9	3548.5	3598.1	3518.3	3369.9	3152.3	2944.1	2527.1	1973.5	2191.3	2077.0
61.5°	3349.4	3444.3	3502.4	3451.9	3307.3	3100.5	2891.1	2477.6	1938.0	2152.7	2050.4
62°	3265.0	3354.4	3406.2	3383.6	3239.4	3045.1	2836.1	2426.4	1903.5	2114.2	2024.0
62.5°	3190.4	3273.7	3311.6	3301.4	3175.5	2978.6	2784.3	2374.2	1869.3	2073.0	1987.5
63°	3136.8	3201.5	3224.9	3221.1	3116.2	2915.2	2733.3	2323.6	1837.0	2031.3	1954.3
63.5°	3086.4	3139.8	3146.6	3141.9	3052.5	2851.5	2683.3	2276.5	1800.9	1990.5	1918.2
64°	3031.3	3087.9	3073.2	3062.4	2984.3	2785.0	2629.6	2228.8	1763.6	1947.5	1882.1
64.5°	2971.4	3035.2	3008.5	2986.4	2914.9	2713.0	2578.0	2184.4	1726.4	1906.3	1843.4
65°	2912.0	2974.4	2956.1	2922.2	2847.4	2643.6	2527.3	2139.0	1686.5	1863.5	1803.6
65.5°	2831.1	2893.8	2894.7	2858.9	2782.1	2572.9	2475.0	2090.1	1648.8	1821.1	1766.8
66°	2739.8	2811.9	2829.2	2797.8	2717.2	2503.4	2418.3	2038.7	1609.6	1782.1	1728.4
66.5°	2652.0	2718.7	2749.2	2739.6	2654.0	2434.6	2352.8	1989.7	1573.3	1742.3	1687.9
67°	2570.2	2625.7	2673.6	2675.8	2592.2	2371.4	2284.0	1941.2	1534.9	1702.7	1644.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2494.5	2544.9	2593.1	2603.2	2527.5	2311.8	2212.7	1891.9	1496.5	1660.3	1609.6
68°	2426.6	2474.0	2509.5	2529.1	2462.2	2249.3	2145.5	1844.2	1458.9	1619.1	1568.5
68.5°	2360.3	2399.5	2425.3	2454.4	2398.1	2191.6	2073.0	1793.5	1421.8	1579.4	1528.7
69°	2298.8	2327.8	2348.6	2378.6	2331.1	2136.4	2003.0	1747.2	1382.4	1539.0	1486.1
69.5°	2230.6	2264.3	2274.7	2300.3	2260.3	2080.9	1932.3	1699.9	1339.8	1494.0	1441.7
70°	2154.6	2189.8	2202.1	2227.8	2188.7	2017.6	1864.4	1651.8	1299.0	1450.7	1404.0
70.5°	2080.0	2116.5	2133.8	2158.3	2118.5	1953.4	1803.1	1603.6	1256.7	1407.7	1357.5
71°	2007.6	2043.4	2063.3	2091.0	2044.6	1890.4	1739.4	1556.3	1216.9	1362.1	1314.2
71.5°	1935.3	1968.0	1988.0	2017.5	1969.6	1823.0	1678.6	1513.4	1179.4	1320.4	1268.4
72°	1870.3	1902.4	1912.7	1944.1	1899.0	1756.3	1619.5	1468.0	1141.9	1278.2	1222.2
72.5°	1805.5	1835.9	1847.7	1872.3	1830.6	1688.4	1558.8	1422.7	1104.2	1236.3	1179.8
73°	1734.5	1771.8	1784.1	1803.2	1759.7	1622.6	1500.8	1381.1	1068.1	1194.3	1137.1
73.5°	1662.8	1701.6	1715.7	1731.9	1692.2	1558.6	1446.4	1336.3	1030.3	1153.0	1093.4
74°	1592.7	1631.2	1643.8	1662.2	1625.8	1494.3	1396.7	1286.9	991.0	1111.9	1050.7
74.5°	1511.5	1549.6	1572.5	1591.9	1558.8	1432.8	1347.0	1229.4	953.8	1067.3	1010.6
75°	1432.7	1464.9	1495.3	1521.6	1495.0	1373.5	1298.2	1174.4	916.8	1026.4	970.8
75.5°	1355.2	1387.1	1421.3	1451.4	1431.4	1316.0	1246.7	1117.8	874.1	981.1	929.3
76°	1277.6	1310.0	1345.9	1377.0	1366.0	1255.2	1193.5	1057.0	831.2	936.1	888.7
76.5°	1203.7	1235.1	1271.6	1304.9	1301.5	1195.9	1137.7	996.2	787.6	892.3	851.0
77°	1133.9	1165.2	1203.5	1235.5	1237.3	1139.2	1082.8	941.9	749.2	850.3	811.6
77.5°	1064.5	1096.9	1135.0	1166.8	1169.8	1083.9	1026.6	888.3	711.4	805.6	772.9
78°	998.7	1028.0	1069.7	1099.5	1107.4	1026.1	969.1	838.9	671.9	762.5	732.1
78.5°	937.3	965.5	1004.4	1035.1	1044.3	969.2	914.6	789.9	636.0	718.1	693.8
79°	878.1	905.3	937.6	972.1	980.3	915.3	867.4	746.1	600.9	675.5	656.3
79.5°	817.6	844.6	876.1	908.8	916.7	861.3	821.3	702.6	565.7	634.3	630.8
80°	767.0	790.2	817.1	848.7	857.2	807.5	774.1	662.5	530.5	595.3	593.4
80.5°	717.2	740.5	758.7	789.6	800.2	759.3	731.0	624.3	495.4	556.4	555.2
81°	670.5	689.6	706.4	732.5	745.5	711.8	686.6	586.6	460.2	517.5	517.0
81.5°	629.5	645.0	656.9	679.8	691.2	662.6	641.1	548.9	429.1	478.6	478.8
82°	589.6	603.9	613.2	631.4	639.0	612.1	598.6	511.2	398.7	439.7	441.5
82.5°	549.8	563.1	572.6	590.3	597.0	570.2	556.2	473.6	367.7	405.0	406.3
83°	509.9	522.3	532.0	549.7	555.3	528.3	513.8	437.6	336.3	370.6	373.7
83.5°	470.0	481.4	491.4	509.1	513.6	486.4	471.4	405.4	306.9	337.3	344.6
84°	430.2	440.6	450.9	468.4	471.9	444.5	428.9	373.9	279.2	304.0	314.7
84.5°	396.9	407.4	415.7	427.8	430.2	409.7	393.2	341.9	252.7	271.9	284.5
85°	365.1	376.1	383.0	394.1	397.1	378.2	359.7	312.9	227.3	241.0	255.5
85.5°	337.8	348.2	353.5	363.7	367.8	349.5	327.8	284.6	204.4	212.9	229.0
86°	312.8	322.1	326.8	336.1	340.5	323.3	300.2	258.5	184.0	186.0	204.1
86.5°	290.1	298.6	302.1	310.5	315.2	299.5	275.0	233.3	163.6	160.2	179.6
87°	269.9	278.2	280.7	286.9	291.5	277.7	253.5	210.3	144.6	137.3	157.5
87.5°	252.5	259.3	261.8	266.4	270.5	258.2	234.0	192.4	128.6	116.9	137.1
88°	236.4	241.3	244.2	247.0	251.0	240.2	215.6	175.3	115.5	98.8	118.6
88.5°	222.8	227.0	228.4	230.6	233.6	224.0	200.4	161.7	104.7	83.5	104.2
89°	210.6	213.9	214.6	215.9	217.5	209.4	187.0	149.7	95.9	71.8	92.9
89.5°	199.5	202.1	201.8	202.2	203.2	196.6	174.9	140.1	88.5	62.2	83.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	190.1	191.7	190.6	190.2	190.5	185.0	164.4	131.2	82.5	57.0	76.5
90.5°	181.8	183.2	181.4	180.3	179.9	175.3	155.1	124.3	78.0	51.9	70.2
91°	174.4	175.5	173.0	171.1	170.3	165.8	146.8	118.6	74.2	46.7	65.3
91.5°	168.4	169.4	166.1	163.1	161.3	156.7	140.0	113.6	71.0	41.6	62.9
92°	162.9	163.4	159.3	155.3	152.1	149.2	134.2	109.6	68.4	38.9	60.6
92.5°	156.6	157.3	152.3	147.6	145.2	142.9	129.4	106.3	66.4	37.2	58.4
93°	150.8	151.2	145.9	141.4	139.6	137.3	125.0	103.3	64.9	36.1	56.1
93.5°	146.7	147.0	141.5	137.0	134.6	132.3	121.3	100.8	64.0	35.5	53.9
94°	143.8	144.0	138.0	133.0	130.2	128.0	118.0	98.4	63.2	35.1	53.2
94.5°	141.4	141.5	135.2	129.7	126.2	124.3	115.0	96.3	62.3	34.9	52.7
95°	139.6	139.7	133.0	126.7	122.8	120.9	112.2	94.3	61.4	34.8	51.7
95.5°	137.7	137.9	130.9	124.6	120.1	118.0	109.9	92.6	60.6	34.7	51.2
96°	135.6	135.9	129.2	122.6	117.7	115.4	107.7	91.0	60.1	34.5	51.0
96.5°	134.4	134.6	127.7	120.8	115.5	113.1	105.5	89.4	59.7	34.7	50.8
97°	133.5	133.7	126.7	119.3	113.6	110.9	103.5	88.0	59.6	35.0	50.5
97.5°	132.7	132.8	125.8	118.1	112.0	108.8	101.6	86.8	59.6	35.4	50.2
98°	131.8	131.9	124.9	117.0	110.5	106.9	99.7	85.8	59.8	35.8	49.9
98.5°	130.8	131.1	124.2	115.9	109.1	105.3	98.2	85.0	59.9	36.3	49.5
99°	130.1	130.3	123.5	114.9	107.9	103.7	96.8	84.4	60.1	36.7	49.0
99.5°	129.3	129.5	122.7	114.1	107.0	102.3	95.6	83.8	60.3	37.2	48.6
100°	128.3	128.6	121.9	113.4	105.9	101.0	94.6	83.4	60.5	37.7	48.2
100.5°	127.3	127.7	121.3	112.5	104.9	100.0	93.6	83.1	60.8	38.2	47.8
101°	126.3	126.8	120.1	111.3	104.1	99.2	92.9	82.9	61.1	38.7	47.5
101.5°	124.0	124.8	118.6	110.4	103.7	98.6	92.4	82.8	61.4	39.2	47.3
102°	122.1	123.2	117.7	110.2	103.6	98.1	91.9	82.7	61.8	39.9	47.1
102.5°	121.2	122.5	117.7	110.4	103.4	97.6	91.3	82.6	62.3	40.5	47.0
103°	121.5	122.9	118.1	110.4	103.2	97.2	90.8	82.6	62.8	41.1	47.0
103.5°	121.4	123.0	118.0	110.3	103.0	96.8	90.4	82.5	63.3	41.7	47.0
104°	120.9	122.5	117.6	109.9	102.7	96.5	90.0	82.5	63.9	42.3	47.2
104.5°	120.2	121.9	117.2	109.6	102.4	96.1	89.5	82.4	64.4	43.0	47.3
105°	119.4	121.3	116.8	109.4	102.3	95.8	89.2	82.4	64.9	43.6	47.5
105.5°	118.7	120.7	116.4	109.2	102.2	95.5	88.8	82.4	65.5	44.2	47.8
106°	118.0	120.1	115.9	109.0	102.0	95.2	88.5	82.3	65.9	44.8	48.1
106.5°	117.4	119.5	115.5	108.8	101.8	94.9	88.2	82.2	66.4	45.4	48.4
107°	117.0	119.0	115.1	108.5	101.6	94.6	87.8	82.1	66.8	46.0	48.7
107.5°	116.6	118.5	114.6	108.2	101.4	94.3	87.4	82.1	67.2	46.5	49.0
108°	116.0	117.7	114.1	107.7	101.2	93.9	87.2	82.1	67.7	47.1	49.3
108.5°	115.2	117.0	113.6	107.3	100.9	93.6	86.9	82.1	68.2	47.6	49.6
109°	114.4	116.2	112.9	106.9	100.6	93.3	86.7	82.3	68.8	48.1	49.9
109.5°	113.5	115.2	112.2	106.4	100.3	93.0	86.6	82.5	69.3	48.6	50.2
110°	112.4	114.2	111.6	105.9	100.0	92.8	86.5	82.7	69.8	49.1	50.5
110.5°	111.4	113.3	110.8	105.4	99.7	92.6	86.3	82.9	70.3	49.7	50.8
111°	110.4	112.4	110.1	104.9	99.4	92.4	86.2	83.1	70.8	50.2	51.1
111.5°	109.5	111.5	109.5	104.4	99.1	92.2	86.1	83.4	71.2	50.7	51.4
112°	108.5	110.6	108.8	104.0	98.7	92.0	86.1	83.6	71.7	51.2	51.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	107.6	109.7	108.1	103.5	98.2	91.9	86.1	83.8	72.2	51.6	51.9
113°	106.8	108.9	107.5	102.9	97.9	91.8	86.1	84.1	72.6	52.0	52.1
113.5°	106.0	108.3	106.8	102.3	97.7	91.7	86.1	84.3	73.0	52.4	52.4
114°	105.4	107.7	106.2	101.8	97.5	91.6	86.1	84.4	73.3	52.7	52.6
114.5°	104.7	107.0	105.4	101.3	97.3	91.6	86.1	84.7	73.7	53.1	52.8
115°	104.1	106.3	104.8	101.0	97.1	91.4	86.1	84.9	74.0	53.4	53.0
115.5°	103.4	105.5	104.1	100.8	96.9	91.3	86.1	85.1	74.2	53.7	53.1
116°	102.7	104.8	103.6	100.6	96.8	91.2	86.1	85.2	74.5	54.0	53.2
116.5°	102.1	104.3	103.3	100.4	96.7	91.1	86.1	85.3	74.8	54.2	53.4
117°	101.7	103.8	103.0	100.2	96.5	91.0	86.1	85.3	75.0	54.3	53.5
117.5°	101.4	103.4	102.7	100.0	96.4	90.9	86.1	85.4	75.1	54.4	53.5
118°	101.2	103.1	102.5	99.9	96.2	90.8	86.1	85.4	75.2	54.4	53.6
118.5°	101.1	102.8	102.4	99.9	96.1	90.8	86.0	85.4	75.1	54.3	53.6
119°	100.9	102.6	102.3	99.8	95.9	90.8	86.1	85.4	75.1	54.2	53.7
119.5°	101.0	102.5	102.2	99.6	95.7	90.7	86.1	85.4	75.0	54.0	53.8
120°	101.0	102.5	102.4	99.6	95.7	90.7	86.1	85.3	74.9	53.9	53.9
120.5°	101.2	102.6	102.4	99.5	95.5	90.7	86.2	85.4	74.7	53.8	54.0
121°	101.4	102.6	102.4	99.4	95.4	90.8	86.3	85.4	74.6	53.6	54.0
121.5°	101.5	102.6	102.4	99.4	95.4	90.8	86.4	85.4	74.3	53.3	54.0
122°	101.6	102.7	102.5	99.3	95.4	90.9	86.5	85.5	74.1	53.1	54.0
122.5°	101.7	102.9	102.5	99.4	95.3	91.0	86.6	85.5	73.8	52.7	54.0
123°	101.9	103.0	102.6	99.4	95.4	91.1	86.7	85.5	73.5	52.4	53.9
123.5°	102.1	103.2	102.7	99.3	95.3	91.3	86.9	85.5	73.2	52.1	53.9
124°	102.3	103.3	102.8	99.2	95.4	91.5	87.1	85.6	72.8	51.8	53.8
124.5°	102.6	103.6	103.0	99.1	95.4	91.6	87.3	85.6	72.5	51.5	53.7
125°	102.8	103.8	103.2	99.0	95.5	91.8	87.5	85.8	72.1	51.2	53.6
125.5°	103.0	104.0	103.3	99.0	95.6	92.1	87.9	85.9	71.7	50.9	53.4
126°	103.3	104.3	103.4	98.9	95.7	92.3	88.2	86.1	71.4	50.5	53.3
126.5°	103.6	104.4	103.5	98.8	95.9	92.6	88.5	86.2	71.1	50.3	53.2
127°	103.6	104.6	103.6	98.8	96.0	92.9	88.9	86.4	70.9	50.1	53.2
127.5°	103.6	104.7	103.6	98.7	96.1	93.1	89.3	86.7	70.7	50.0	53.2
128°	103.7	104.8	103.8	98.6	96.3	93.4	89.7	87.0	70.6	49.9	53.3
128.5°	103.7	104.9	103.8	98.5	96.5	93.7	90.1	87.2	70.4	49.9	53.3
129°	103.7	105.0	103.8	98.5	96.6	93.9	90.7	87.5	70.3	49.9	53.4
129.5°	103.6	105.0	103.8	98.4	96.7	94.2	91.1	87.8	70.3	49.9	53.6
130°	103.6	105.0	103.9	98.3	96.9	94.4	91.6	88.1	70.2	50.0	53.7
130.5°	103.5	104.9	103.9	98.2	97.0	94.6	92.1	88.5	70.2	50.1	53.9
131°	103.4	104.9	103.9	98.1	97.0	94.8	92.6	88.8	70.2	50.3	54.1
131.5°	103.2	104.8	103.9	98.0	97.1	95.0	93.1	89.1	70.3	50.5	54.3
132°	103.1	104.7	103.9	97.8	97.1	95.2	93.6	89.4	70.3	50.6	54.4
132.5°	102.8	104.6	103.7	97.6	97.0	95.2	94.0	89.7	70.3	50.8	54.6
133°	102.5	104.3	103.5	97.4	96.8	95.3	94.5	90.0	70.4	51.0	54.7
133.5°	102.0	104.0	103.3	97.1	96.6	95.4	94.8	90.2	70.4	51.2	54.8
134°	101.5	103.6	103.0	96.8	96.3	95.4	95.1	90.4	70.4	51.4	54.9
134.5°	100.9	103.2	102.7	96.5	95.9	95.4	95.3	90.6	70.4	51.6	55.0



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	100.2	102.8	102.4	96.1	95.4	95.4	95.5	90.8	70.4	51.7	55.1
135.5°	99.4	102.3	101.9	95.9	95.0	95.4	95.6	90.8	70.3	51.9	55.1
136°	98.7	101.8	101.5	95.5	94.5	95.2	95.6	90.8	70.3	52.0	55.2
136.5°	97.8	101.2	100.9	95.2	93.9	95.1	95.6	90.8	70.1	52.1	55.2
137°	96.9	100.5	100.4	94.7	93.4	94.8	95.5	90.8	70.0	52.2	55.2
137.5°	96.0	99.7	99.7	94.3	92.6	94.6	95.3	90.7	69.8	52.3	55.1
138°	94.9	98.8	99.1	93.8	91.9	94.2	95.1	90.4	69.6	52.4	55.1
138.5°	93.9	98.0	98.5	92.6	91.2	93.7	94.7	90.1	69.4	52.5	55.0
139°	92.9	97.2	97.7	92.0	90.5	93.2	94.3	89.7	69.0	52.5	54.8
139.5°	92.2	96.3	96.9	91.5	89.8	92.6	93.8	89.4	68.7	52.4	54.5
140°	91.2	95.5	95.9	91.0	89.0	91.9	93.2	88.8	68.3	52.3	54.2
140.5°	90.4	94.4	94.6	90.5	88.4	91.2	92.6	88.1	67.8	52.2	53.9
141°	89.3	93.2	93.1	90.1	87.7	90.4	91.7	87.5	67.2	52.0	53.5
141.5°	88.0	92.0	92.2	89.5	87.0	89.4	90.9	86.7	66.6	51.8	53.0
142°	86.7	90.3	91.4	88.9	86.2	88.5	90.0	85.7	66.0	51.5	52.6
142.5°	84.0	89.1	90.6	88.3	85.5	87.4	89.0	84.7	65.2	51.2	52.0
143°	83.2	88.2	89.6	87.6	84.7	86.4	87.9	83.7	64.4	50.8	51.4
143.5°	82.6	87.3	88.8	86.9	84.0	85.2	86.7	82.5	63.5	50.3	50.8
144°	81.9	86.3	88.0	86.1	83.3	84.0	85.4	81.3	62.6	49.8	50.1
144.5°	81.3	85.4	87.1	85.3	82.5	82.8	84.2	80.0	61.6	49.3	49.4
145°	80.7	84.4	86.1	84.5	81.6	81.6	82.8	78.5	60.5	48.7	48.6
145.5°	79.9	83.4	85.1	83.5	80.9	80.3	81.4	77.1	59.4	48.0	47.7
146°	79.1	82.4	84.1	82.5	79.9	79.1	80.0	75.5	58.3	47.3	46.8
146.5°	78.4	81.3	83.1	81.5	78.9	77.8	78.5	73.9	57.1	46.6	46.0
147°	77.5	80.2	82.1	80.3	77.8	76.5	76.9	72.2	55.8	45.7	45.0
147.5°	76.7	79.1	81.0	79.2	76.8	75.2	75.4	70.5	54.5	44.9	44.0
148°	75.9	78.0	79.8	78.0	75.5	73.9	73.7	68.7	53.1	43.9	43.0
148.5°	75.0	76.8	78.6	76.8	74.3	72.6	72.1	66.8	51.7	43.0	42.0
149°	74.0	75.6	77.4	75.5	73.1	71.2	70.4	64.9	50.3	42.0	40.9
149.5°	73.1	74.4	76.2	74.2	71.7	69.9	68.6	63.1	48.8	41.0	39.8
150°	72.1	73.1	74.9	72.8	70.5	68.4	66.7	61.2	47.3	40.0	38.7
150.5°	71.1	71.8	73.6	71.4	69.1	66.9	64.9	59.4	45.9	38.9	37.6
151°	70.1	70.6	72.3	70.0	67.7	65.5	63.2	57.5	44.4	37.8	36.4
151.5°	68.9	69.2	70.6	68.6	66.2	64.7	61.3	55.7	42.9	36.7	35.3
152°	67.8	67.7	69.1	67.1	64.8	63.1	59.5	53.7	41.3	35.6	34.2
152.5°	66.6	66.3	67.6	65.7	63.4	61.6	57.7	51.6	39.8	34.5	33.0
153°	65.3	64.8	66.0	63.8	62.0	60.0	55.9	49.6	38.3	33.3	31.8
153.5°	64.8	63.6	64.6	62.6	60.5	58.4	53.9	47.5	36.8	32.2	30.7
154°	63.5	62.3	63.2	61.3	59.1	56.8	51.8	45.5	35.3	31.0	29.6
154.5°	62.3	61.0	61.7	60.1	57.6	55.1	49.7	43.6	33.8	29.9	28.5
155°	61.0	59.8	60.3	58.9	56.0	53.4	47.6	41.6	32.4	28.8	27.3
155.5°	59.7	58.5	58.8	57.3	54.3	51.4	45.5	39.7	31.0	27.6	26.2
156°	58.4	57.1	57.4	55.6	52.8	49.2	43.5	37.8	29.6	26.5	25.1
156.5°	57.1	55.6	55.7	53.9	51.1	47.0	41.4	35.9	28.2	25.4	24.1
157°	55.8	54.2	54.1	52.3	49.5	44.9	39.3	34.1	26.9	24.3	23.0



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	54.4	52.8	52.4	50.6	47.9	42.7	37.3	32.3	25.6	23.2	22.0
158°	53.0	51.3	50.7	48.9	46.2	40.6	35.3	30.6	24.3	22.2	21.0
158.5°	51.5	49.8	49.0	47.3	44.5	38.3	33.2	28.8	23.0	21.1	20.0
159°	49.9	48.2	47.4	45.6	42.3	36.1	31.1	27.1	21.8	20.1	19.0
159.5°	48.4	46.6	45.7	43.9	39.8	33.9	29.1	25.5	20.6	19.1	18.0
160°	46.9	45.2	44.1	42.3	37.4	31.8	27.4	24.0	19.4	18.1	17.1
160.5°	45.3	43.7	42.6	40.6	35.0	29.7	25.7	22.5	18.3	17.2	16.2
161°	43.8	42.2	41.0	38.6	32.6	27.7	24.0	20.9	17.2	16.2	15.3
161.5°	42.4	40.7	39.4	35.9	30.1	25.6	22.4	19.5	16.1	15.2	14.4
162°	40.8	39.2	37.7	33.3	27.9	23.5	20.8	18.1	15.0	14.3	13.5
162.5°	39.2	37.7	35.4	30.7	25.5	21.4	19.3	16.8	14.0	13.4	12.7
163°	37.5	35.9	32.6	28.1	23.4	19.3	17.9	15.5	13.0	12.6	11.9
163.5°	34.8	32.9	29.9	25.7	21.3	17.2	16.4	14.3	12.1	11.7	11.1
164°	31.7	30.1	27.2	23.5	19.3	15.7	15.1	13.2	11.2	11.0	10.4
164.5°	28.7	27.3	24.6	21.3	17.2	14.4	13.8	12.1	10.3	10.2	9.7
165°	25.9	24.6	22.2	19.3	15.1	13.2	12.6	11.1	9.5	9.5	9.0
165.5°	23.1	22.1	19.9	17.2	13.0	12.0	11.4	10.1	8.8	8.8	8.4
166°	20.6	19.8	17.8	15.3	11.0	10.9	10.4	9.2	8.1	8.2	7.8
166.5°	18.3	17.6	15.7	13.2	10.2	9.9	9.4	8.4	7.4	7.6	7.2
167°	16.1	15.5	13.7	11.2	9.5	9.0	8.5	7.6	6.8	7.0	6.7
167.5°	13.9	13.4	11.6	9.0	8.8	8.1	7.6	6.8	6.2	6.4	6.2
168°	11.5	11.2	9.3	8.3	8.2	7.5	6.8	6.2	5.7	5.9	5.7
168.5°	9.1	8.7	7.5	7.7	7.7	7.0	6.3	5.6	5.1	5.3	5.3
169°	6.9	7.0	6.9	7.2	7.2	6.6	5.9	5.0	4.6	4.8	4.8
169.5°	6.6	6.6	6.6	6.7	6.7	6.2	5.5	4.4	4.1	4.3	4.4
170°	6.3	6.3	6.2	6.3	6.3	5.8	5.0	4.2	3.9	4.1	4.3
170.5°	6.0	5.9	5.9	6.0	5.9	5.4	4.8	4.1	3.9	4.1	4.3
171°	5.6	5.6	5.5	5.6	5.5	5.1	4.6	4.0	3.9	4.1	4.4
171.5°	5.4	5.4	5.3	5.3	5.2	4.9	4.5	4.0	4.0	4.2	4.4
172°	5.2	5.1	5.1	5.0	4.9	4.7	4.4	4.0	4.1	4.3	4.5
172.5°	4.9	5.0	4.9	4.8	4.7	4.5	4.3	4.0	4.2	4.4	4.6
173°	4.8	4.8	4.8	4.6	4.5	4.4	4.2	4.0	4.3	4.5	4.7
173.5°	4.6	4.7	4.6	4.4	4.4	4.3	4.2	4.1	4.3	4.5	4.8
174°	4.5	4.5	4.4	4.3	4.3	4.2	4.1	4.2	4.4	4.6	4.8
174.5°	4.3	4.3	4.2	4.1	4.1	4.1	4.1	4.2	4.4	4.6	4.8
175°	4.2	4.2	4.0	4.0	4.0	4.0	4.0	4.2	4.4	4.6	4.8
175.5°	4.1	4.1	4.0	3.9	3.9	4.0	4.0	4.2	4.4	4.7	4.8
176°	4.0	3.9	3.9	3.8	3.9	3.9	4.1	4.2	4.4	4.7	4.8
176.5°	3.9	3.9	3.8	3.8	3.8	3.9	4.1	4.2	4.4	4.7	4.9
177°	3.9	3.9	3.8	3.8	3.8	3.9	4.1	4.2	4.4	4.6	4.8
177.5°	3.9	3.9	3.8	3.8	3.8	3.9	4.0	4.2	4.4	4.6	4.8
178°	3.9	3.9	3.8	3.8	3.8	3.9	4.0	4.2	4.4	4.6	4.8
178.5°	4.0	4.0	3.9	3.8	3.8	3.9	4.0	4.2	4.4	4.5	4.7
179°	4.0	4.0	3.9	3.9	3.9	3.9	4.1	4.2	4.4	4.5	4.7
179.5°	4.1	4.0	4.0	3.9	3.9	4.0	4.1	4.2	4.4	4.5	4.7



REPORT NUMBER: P973043
CATALOG NUMBER: WP-6984-90W-3000K

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: P973043

CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2
0.5°	3965.4	3955.7	3948.9	3946.8	3948.8	3947.4	3947.5	3921.0	3920.0	3922.4	3927.3
1°	3951.3	3943.3	3947.9	3955.2	3966.1	3973.9	3976.8	3915.7	3914.1	3913.1	3911.7
1.5°	3932.8	3939.6	3964.2	3992.3	4017.9	4032.2	4033.7	3966.5	3961.5	3954.5	3946.7
2°	3930.4	3957.7	3997.0	4035.4	4063.5	4078.7	4086.7	4025.7	4018.2	4009.9	3997.7
2.5°	3929.3	3982.4	4035.7	4070.5	4091.0	4093.5	4093.4	4054.7	4047.9	4045.9	4039.6
3°	3938.2	4004.7	4055.2	4081.1	4076.5	4054.2	4040.5	4031.8	4032.4	4044.2	4049.5
3.5°	3946.0	4023.0	4061.7	4051.9	4012.4	3974.0	3958.6	3950.0	3957.2	3977.6	4022.3
4°	3958.7	4028.6	4042.5	3985.8	3930.3	3912.2	3914.2	3885.6	3884.3	3901.9	3946.5
4.5°	3965.2	4024.8	3999.5	3913.8	3890.3	3895.6	3911.6	3869.9	3864.4	3867.5	3885.1
5°	3969.9	4006.9	3929.1	3867.9	3880.0	3906.4	3920.6	3886.9	3874.5	3863.7	3858.8
5.5°	3965.0	3974.7	3867.8	3850.3	3883.1	3893.2	3884.3	3870.1	3869.4	3869.4	3863.3
6°	3956.4	3925.7	3832.9	3846.6	3861.1	3821.3	3776.1	3787.6	3797.1	3839.1	3867.1
6.5°	3947.6	3870.2	3811.4	3833.8	3793.1	3695.4	3631.0	3651.3	3672.4	3748.0	3829.6
7°	3933.2	3821.3	3801.8	3792.3	3676.8	3554.0	3506.1	3515.9	3535.2	3614.4	3747.0
7.5°	3909.4	3785.7	3782.2	3710.6	3543.2	3452.4	3448.4	3433.5	3432.9	3485.2	3621.9
8°	3875.2	3759.1	3752.3	3606.7	3442.2	3416.7	3439.1	3418.9	3409.7	3408.2	3495.9
8.5°	3845.0	3730.4	3696.2	3491.7	3383.5	3404.8	3406.3	3403.9	3405.4	3392.2	3410.1
9°	3802.1	3707.8	3626.1	3398.6	3365.0	3362.3	3311.0	3322.4	3344.6	3380.2	3388.7
9.5°	3767.1	3683.1	3536.8	3341.0	3341.8	3259.8	3161.9	3191.4	3223.0	3321.4	3385.4
10°	3733.9	3652.0	3445.0	3308.9	3270.2	3115.2	3011.2	3026.6	3065.1	3192.1	3356.8
10.5°	3702.1	3616.1	3365.4	3286.1	3158.0	2972.7	2909.0	2911.0	2927.1	3035.4	3280.0
11°	3680.1	3569.6	3297.7	3242.1	3030.1	2875.5	2855.1	2850.3	2852.4	2903.5	3135.6
11.5°	3657.5	3516.9	3246.7	3162.1	2907.7	2818.9	2791.3	2798.5	2806.4	2835.5	2987.2
12°	3637.5	3460.9	3217.4	3063.1	2818.7	2759.5	2688.9	2704.2	2735.6	2795.2	2878.6
12.5°	3617.8	3397.9	3188.6	2960.0	2767.4	2664.0	2552.2	2569.6	2618.7	2735.7	2821.5
13°	3600.6	3339.6	3149.1	2850.2	2701.6	2534.5	2409.6	2417.3	2468.3	2628.4	2786.6
13.5°	3577.4	3288.4	3096.5	2768.3	2615.3	2398.5	2297.2	2295.6	2333.2	2486.8	2733.2
14°	3549.1	3241.6	3029.4	2709.9	2508.0	2284.8	2206.3	2205.5	2230.5	2343.8	2636.1
14.5°	3520.0	3199.1	2948.8	2646.3	2383.4	2189.3	2113.9	2122.3	2149.7	2237.7	2502.5
15°	3483.6	3163.6	2870.7	2576.8	2270.4	2103.7	2014.0	2018.5	2060.7	2158.0	2358.7
15.5°	3443.4	3130.0	2790.2	2495.7	2176.0	2009.8	1894.8	1893.4	1954.3	2080.2	2243.6
16°	3405.1	3096.9	2717.9	2398.0	2092.6	1902.5	1760.0	1760.1	1822.9	1985.4	2159.2
16.5°	3364.5	3058.8	2661.3	2295.4	2006.2	1779.5	1625.4	1626.7	1683.5	1872.4	2094.7
17°	3326.3	3011.2	2603.8	2205.7	1916.4	1655.8	1513.2	1510.1	1552.9	1730.0	2014.1
17.5°	3289.6	2961.6	2542.1	2116.1	1812.8	1534.2	1421.0	1453.3	1490.3	1596.0	1913.1
18°	3250.7	2909.9	2483.0	2031.4	1692.4	1433.3	1354.9	1396.5	1427.7	1483.2	1793.4
18.5°	3213.3	2847.5	2414.8	1953.3	1583.4	1358.4	1304.2	1339.7	1365.1	1422.8	1666.9
19°	3175.2	2791.0	2336.7	1873.4	1478.9	1300.6	1261.8	1282.9	1302.5	1362.4	1542.5
19.5°	3131.6	2728.9	2256.3	1783.4	1386.7	1253.3	1222.7	1226.2	1240.6	1302.0	1478.2
20°	3090.0	2662.6	2172.3	1694.0	1317.9	1214.8	1184.7	1187.9	1200.5	1242.1	1413.8
20.5°	3050.9	2596.2	2080.7	1592.8	1260.1	1174.9	1143.6	1149.1	1162.0	1204.5	1349.5
21°	3005.8	2541.1	2002.9	1495.7	1215.0	1137.5	1104.4	1108.6	1122.5	1167.1	1285.1
21.5°	2965.2	2482.3	1927.6	1412.1	1176.5	1100.3	1064.7	1068.1	1082.8	1128.1	1221.9
22°	2929.4	2432.4	1854.1	1332.1	1139.6	1061.1	1022.5	1027.1	1042.5	1090.6	1185.4



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	2890.6	2390.3	1792.0	1269.0	1103.5	1022.4	982.5	987.5	1002.5	1053.5	1150.1
23°	2859.8	2348.8	1725.5	1219.6	1068.9	984.6	944.4	947.7	964.4	1015.2	1115.6
23.5°	2828.3	2300.5	1645.7	1174.7	1032.8	944.8	904.8	910.4	927.6	978.9	1081.6
24°	2798.9	2251.3	1571.8	1138.3	996.2	908.3	867.0	872.0	888.5	942.0	1047.6
24.5°	2767.1	2193.5	1495.9	1105.3	962.8	874.0	831.8	835.7	852.8	906.0	1014.2
25°	2735.8	2124.9	1415.7	1071.9	926.6	837.0	794.2	799.3	817.3	872.0	980.5
25.5°	2703.7	2058.7	1348.3	1039.5	890.9	800.7	757.9	762.7	780.7	837.5	946.7
26°	2670.8	1985.7	1291.1	1010.5	859.6	768.4	724.9	728.0	746.3	803.8	914.1
26.5°	2638.0	1918.0	1234.1	979.6	826.6	734.6	689.9	694.9	713.0	770.3	883.1
27°	2598.8	1860.0	1191.3	948.3	793.2	701.4	656.9	660.5	677.6	737.4	850.6
27.5°	2558.3	1804.1	1152.4	918.9	762.7	669.1	635.9	627.3	644.6	704.1	819.0
28°	2516.1	1753.2	1116.9	889.6	731.8	640.0	603.6	596.4	613.7	673.2	787.5
28.5°	2473.4	1706.8	1085.9	859.2	699.9	611.3	570.7	566.0	582.3	641.9	757.2
29°	2434.6	1661.5	1059.2	831.7	671.8	582.6	537.8	536.0	551.5	611.9	726.8
29.5°	2399.6	1616.6	1030.3	803.2	643.5	553.8	504.8	509.0	523.3	584.1	697.5
30°	2363.1	1572.2	1004.7	774.3	616.7	525.1	478.5	483.0	496.2	556.6	668.6
30.5°	2334.1	1523.4	979.8	748.4	590.0	496.4	455.0	458.7	471.1	529.2	640.6
31°	2309.1	1475.2	952.0	721.5	563.3	470.9	431.5	435.8	447.6	504.3	613.4
31.5°	2284.6	1433.7	926.9	694.0	536.6	446.7	409.5	414.4	424.3	480.7	588.2
32°	2268.1	1389.3	902.8	670.0	509.9	425.8	390.6	394.6	403.4	457.8	563.9
32.5°	2249.4	1349.5	877.7	644.7	486.7	404.3	371.5	376.6	383.8	436.1	540.3
33°	2229.7	1317.0	856.3	621.9	464.2	384.2	353.7	359.4	365.3	415.9	517.6
33.5°	2210.5	1284.3	835.9	599.2	444.0	366.2	338.1	343.8	348.6	396.5	496.1
34°	2189.3	1256.9	812.6	576.4	424.4	349.0	323.5	329.1	332.2	377.7	475.3
34.5°	2164.3	1234.5	791.6	553.6	405.0	332.0	309.7	315.3	317.1	360.1	455.7
35°	2141.6	1214.3	772.3	530.9	387.6	317.6	297.9	302.9	303.8	343.9	436.7
35.5°	2116.4	1196.3	751.5	510.2	371.2	303.8	286.4	291.2	291.4	328.3	416.9
36°	2089.5	1182.6	733.1	489.7	354.4	290.6	275.6	280.5	279.8	314.2	398.9
36.5°	2065.3	1167.7	715.5	471.9	339.2	278.8	265.9	270.6	269.7	300.7	381.9
37°	2040.3	1154.0	696.1	453.6	325.1	267.7	256.4	260.8	259.9	288.5	364.9
37.5°	2017.6	1142.3	679.1	436.5	310.7	257.5	247.3	251.8	250.7	277.1	348.7
38°	1996.5	1128.2	663.0	420.8	297.9	248.3	238.8	243.1	242.2	266.6	333.6
38.5°	1977.6	1115.1	645.4	405.9	285.7	239.6	230.7	234.7	233.8	256.8	319.3
39°	1960.3	1103.9	630.4	391.1	273.9	231.3	222.9	227.1	226.1	248.2	306.4
39.5°	1945.0	1091.1	615.6	378.0	263.0	223.7	215.6	219.5	218.7	239.1	293.4
40°	1927.8	1077.9	600.7	364.5	252.9	216.3	208.7	212.8	211.9	230.8	281.7
40.5°	1910.3	1067.4	585.8	351.8	243.0	209.1	201.6	206.2	205.2	223.1	270.9
41°	1895.7	1054.5	571.0	340.8	234.4	202.6	195.8	200.1	198.9	215.5	260.5
41.5°	1880.3	1041.6	556.3	329.8	226.3	196.4	190.0	194.1	193.2	208.4	250.9
42°	1864.2	1030.3	543.2	318.4	217.9	190.1	184.2	188.5	187.6	202.0	242.3
42.5°	1851.1	1017.8	531.2	308.8	210.6	184.6	179.0	183.1	182.1	195.7	233.9
43°	1836.4	1006.7	517.9	299.4	203.9	179.2	173.7	177.8	176.8	189.8	225.8
43.5°	1820.6	995.7	505.3	289.7	196.9	173.8	168.5	172.7	171.6	184.1	218.3
44°	1807.3	984.0	493.8	280.7	190.7	168.8	163.6	167.8	166.6	178.6	211.3
44.5°	1794.7	972.8	481.4	272.8	185.0	163.9	159.1	163.1	161.8	173.5	204.4



REPORT NUMBER: P973043
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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1780.7	961.4	469.8	264.6	179.2	159.2	154.4	158.8	157.1	168.3	197.9
45.5°	1768.6	949.5	459.3	257.0	173.9	154.7	150.2	154.5	152.7	163.2	191.7
46°	1757.3	939.5	447.5	249.3	169.1	150.4	146.1	150.4	148.9	158.4	185.9
46.5°	1744.1	930.8	437.3	242.1	164.1	146.3	142.0	146.7	145.1	153.6	180.2
47°	1732.8	920.6	427.9	235.4	159.4	142.1	138.1	143.0	141.4	149.7	175.0
47.5°	1720.8	912.1	418.1	228.7	155.0	138.1	134.3	139.3	137.6	145.8	169.9
48°	1706.7	904.3	409.7	222.1	150.7	134.2	130.5	135.6	133.9	141.8	165.1
48.5°	1693.8	894.3	401.2	216.3	146.6	130.5	126.8	131.7	130.2	137.9	160.1
49°	1677.5	883.9	392.3	210.6	142.5	126.7	123.1	128.0	126.7	134.0	155.6
49.5°	1659.2	875.0	384.5	205.1	138.5	123.1	119.3	124.3	123.1	130.3	151.2
50°	1644.3	863.6	377.1	200.1	134.7	119.6	115.7	120.6	119.6	126.7	147.2
50.5°	1629.2	849.8	369.0	195.3	131.0	116.3	112.3	117.1	116.1	123.2	143.3
51°	1611.3	836.4	361.8	190.5	127.1	112.9	108.8	113.5	112.7	119.8	139.3
51.5°	1597.6	822.6	355.5	186.2	123.6	109.6	105.4	110.1	109.4	116.3	135.3
52°	1581.9	808.2	348.4	181.9	120.2	106.6	102.4	106.9	106.3	113.0	131.5
52.5°	1564.4	796.4	342.6	177.6	116.6	103.5	99.5	103.6	103.2	109.6	127.8
53°	1548.9	784.0	336.8	173.5	113.2	100.3	96.6	100.6	100.2	106.3	124.3
53.5°	1529.1	770.0	330.2	169.6	110.1	97.4	93.9	97.5	97.2	103.0	120.9
54°	1508.4	756.3	324.4	165.6	106.8	94.4	91.1	94.7	94.3	99.8	117.6
54.5°	1488.4	742.5	318.9	161.7	103.7	91.6	88.4	91.9	91.6	96.7	114.4
55°	1470.3	730.1	312.9	158.0	100.8	88.9	85.8	89.2	88.8	93.8	111.4
55.5°	1453.0	717.8	307.6	154.2	97.9	86.1	83.1	86.5	86.1	90.6	108.4
56°	1436.9	704.2	302.6	150.6	94.9	83.4	80.6	83.9	83.4	87.5	105.4
56.5°	1421.6	691.2	297.2	146.9	92.2	80.7	78.3	81.4	80.8	84.6	102.4
57°	1406.5	678.7	291.5	143.1	89.3	78.0	75.9	79.1	78.3	81.6	99.4
57.5°	1394.5	667.6	286.2	139.8	86.5	75.5	73.7	76.8	76.0	78.7	96.2
58°	1379.8	656.1	279.7	136.3	83.7	73.0	71.2	74.3	73.6	75.9	93.2
58.5°	1365.5	646.2	273.5	132.7	80.9	70.5	68.5	71.7	71.0	73.2	90.2
59°	1352.6	636.6	267.8	129.1	77.9	68.1	65.6	69.0	68.4	70.7	87.1
59.5°	1339.7	625.5	261.7	125.7	75.1	65.5	62.5	66.2	65.6	68.2	84.0
60°	1328.9	614.4	255.7	122.1	72.4	62.5	59.3	62.6	62.6	65.4	81.0
60.5°	1319.3	603.2	249.5	118.7	69.8	59.5	56.1	58.5	58.8	62.5	78.0
61°	1304.6	592.1	242.8	115.3	67.3	56.5	52.9	54.6	54.9	59.6	75.2
61.5°	1283.6	582.3	236.9	111.7	64.4	53.5	49.7	51.7	51.3	56.2	72.5
62°	1265.4	571.3	231.8	108.3	61.8	50.4	46.0	47.8	48.3	52.6	69.8
62.5°	1248.6	559.4	226.6	104.9	59.2	47.3	40.8	39.8	43.9	49.0	66.9
63°	1232.8	546.7	221.2	101.4	56.7	43.9	30.9	31.9	35.1	45.8	63.8
63.5°	1214.7	532.7	215.5	98.1	54.1	39.2	20.0	23.9	26.3	40.3	60.5
64°	1194.2	517.9	208.8	94.8	51.1	31.0	9.0	16.0	17.5	32.3	57.4
64.5°	1172.3	503.9	202.4	91.5	48.2	20.6	7.0	8.0	8.8	24.2	54.1
65°	1145.9	487.9	195.6	88.2	45.0	10.4	5.3	0.2	0.3	16.1	50.4
65.5°	1121.6	472.9	188.3	84.9	40.3	2.6	3.6	0.2	0.2	8.0	45.3
66°	1095.1	458.4	182.2	81.4	32.6	1.9	1.9	0.2	0.2	0.2	37.4
66.5°	1068.7	441.2	177.1	78.1	24.2	1.3	0.2	0.2	0.2	0.2	28.5
67°	1043.2	427.2	171.9	74.9	16.8	0.8	0.1	0.2	0.2	0.2	20.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	1012.6	413.5	166.3	71.3	12.9	0.2	0.1	0.2	0.2	0.2	17.3
68°	981.4	398.0	160.3	66.5	12.0	0.2	0.1	0.2	0.2	0.2	16.8
68.5°	954.0	384.6	153.7	62.1	11.6	0.2	0.1	0.2	0.2	0.2	16.4
69°	924.4	371.7	147.8	57.7	11.3	0.2	0.1	0.2	0.2	0.2	16.1
69.5°	893.8	358.0	141.9	53.4	11.1	0.2	0.1	0.2	0.2	0.2	15.9
70°	862.6	345.3	135.2	49.0	10.9	0.2	0.2	0.2	0.2	0.2	15.6
70.5°	832.2	332.9	129.1	44.6	10.7	0.2	0.2	0.2	0.2	0.2	15.4
71°	799.8	319.6	122.5	43.4	10.5	0.2	0.2	0.2	0.2	0.2	15.1
71.5°	765.5	305.8	114.3	42.4	10.4	0.2	0.2	0.2	0.2	0.2	14.9
72°	733.5	292.3	106.5	41.4	10.3	0.2	0.2	0.2	0.2	0.2	14.7
72.5°	700.8	277.3	100.1	40.5	10.2	0.2	0.2	0.2	0.2	0.2	14.5
73°	670.0	262.3	95.4	39.6	10.0	0.2	0.2	0.2	0.2	0.2	14.3
73.5°	639.7	250.2	91.8	38.8	9.9	0.2	0.2	0.2	0.2	0.2	14.1
74°	614.7	238.9	88.7	38.0	9.8	0.2	0.2	0.2	0.2	0.2	13.9
74.5°	589.9	228.9	85.4	37.1	9.7	0.2	0.2	0.2	0.2	0.3	13.6
75°	565.0	221.1	82.4	36.3	9.6	0.2	0.2	0.3	0.3	0.3	13.4
75.5°	540.1	213.7	79.6	35.5	9.4	0.2	0.2	0.3	0.3	0.3	13.1
76°	515.2	205.6	76.7	34.6	9.3	0.2	0.2	0.3	0.3	0.3	12.9
76.5°	493.2	197.9	74.1	33.8	9.1	0.2	0.2	0.3	0.3	0.3	12.6
77°	472.9	191.3	71.7	32.9	9.0	0.2	0.2	0.3	0.3	0.3	12.4
77.5°	452.5	183.5	69.2	32.0	8.8	0.2	0.2	0.3	0.3	0.3	12.2
78°	431.8	175.7	66.8	31.1	8.6	0.2	0.2	0.3	0.3	0.3	11.9
78.5°	410.7	167.3	64.2	30.2	8.5	0.2	0.2	0.3	0.3	0.3	11.6
79°	389.4	160.0	62.3	29.3	8.3	0.2	0.2	0.3	0.3	0.3	11.4
79.5°	368.4	153.2	60.5	28.4	8.1	0.3	0.2	0.3	0.3	0.3	11.1
80°	349.6	147.1	58.7	27.5	7.9	0.3	0.3	0.3	0.3	0.4	10.9
80.5°	330.4	140.9	56.9	26.5	7.7	0.3	0.3	0.4	0.4	0.4	10.6
81°	311.3	134.6	54.9	25.6	7.5	0.3	0.3	0.4	0.4	0.4	10.4
81.5°	292.5	128.4	52.8	24.6	7.3	0.3	0.3	0.4	0.4	0.4	10.2
82°	273.6	121.1	50.4	23.7	7.2	0.3	0.3	0.4	0.4	0.4	9.9
82.5°	256.0	113.2	48.0	22.8	7.0	0.3	0.3	0.4	0.4	0.4	9.7
83°	238.9	105.6	45.8	21.8	6.8	0.3	0.3	0.4	0.4	0.4	9.4
83.5°	221.0	98.9	43.4	21.0	6.6	0.3	0.3	0.5	0.5	0.5	9.2
84°	202.1	92.3	41.1	20.1	6.4	0.3	0.3	0.5	0.5	0.5	9.0
84.5°	185.2	85.5	38.8	19.2	6.2	0.3	0.3	0.5	0.5	0.5	8.7
85°	170.2	79.2	36.6	18.4	6.1	0.4	0.4	0.5	0.5	0.5	8.5
85.5°	156.2	73.6	34.6	17.6	5.9	0.4	0.4	0.5	0.5	0.6	8.3
86°	142.5	68.1	32.8	16.9	5.8	0.4	0.4	0.6	0.6	0.6	8.1
86.5°	129.4	63.2	31.0	16.2	5.6	0.4	0.4	0.6	0.6	0.6	7.9
87°	117.5	59.1	29.5	15.5	5.5	0.4	0.4	0.6	0.6	0.6	7.6
87.5°	107.1	55.1	28.0	14.9	5.4	0.4	0.4	0.6	0.7	0.7	7.5
88°	97.1	51.1	26.5	14.3	5.2	0.5	0.5	0.7	0.7	0.7	7.2
88.5°	88.6	47.1	25.3	13.8	5.1	0.5	0.5	0.7	0.7	0.7	7.0
89°	80.7	44.0	24.2	13.3	4.9	0.5	0.5	0.7	0.7	0.7	6.8
89.5°	74.2	41.2	23.1	12.8	4.8	0.5	0.5	0.8	0.8	0.8	6.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	68.5	38.8	22.1	12.3	4.6	0.6	0.6	0.8	0.8	0.8	6.4
90.5°	63.1	36.7	21.2	11.9	4.5	0.6	0.6	0.8	0.8	0.8	6.2
91°	60.0	34.9	20.4	11.4	4.4	0.6	0.6	0.9	0.9	0.9	6.1
91.5°	56.9	33.3	19.6	11.0	4.3	0.6	0.6	0.9	0.9	0.9	5.9
92°	53.9	32.0	18.9	10.7	4.2	0.6	0.6	0.9	0.9	0.9	5.8
92.5°	50.8	30.9	18.3	10.5	4.1	0.7	0.7	1.0	1.0	1.0	5.6
93°	48.9	30.0	17.9	10.2	4.0	0.7	0.7	1.0	1.0	1.0	5.5
93.5°	47.3	29.3	17.5	9.9	3.9	0.7	0.7	1.0	1.0	1.0	5.3
94°	46.0	28.9	17.1	9.7	3.8	0.7	0.7	1.1	1.1	1.1	5.2
94.5°	45.0	28.6	16.8	9.5	3.7	0.8	0.8	1.1	1.1	1.1	5.1
95°	44.4	28.2	16.5	9.2	3.6	0.8	0.8	1.1	1.1	1.1	5.0
95.5°	43.9	27.9	16.1	9.1	3.5	0.8	0.8	1.2	1.2	1.2	4.9
96°	43.4	27.6	15.8	8.9	3.5	0.8	0.9	1.2	1.2	1.2	4.8
96.5°	43.0	27.2	15.5	8.8	3.4	0.9	0.9	1.2	1.2	1.2	4.8
97°	42.5	26.9	15.3	8.7	3.3	0.9	0.9	1.3	1.3	1.3	4.7
97.5°	42.0	26.6	15.1	8.5	3.3	0.9	0.9	1.3	1.3	1.3	4.6
98°	41.4	26.3	14.8	8.4	3.2	1.0	1.0	1.3	1.3	1.3	4.6
98.5°	40.7	25.9	14.6	8.3	3.1	1.0	1.0	1.4	1.4	1.4	4.5
99°	40.1	25.6	14.4	8.1	3.1	1.0	1.0	1.4	1.4	1.4	4.4
99.5°	39.5	25.1	14.2	8.0	3.0	1.0	1.1	1.5	1.5	1.4	4.3
100°	38.8	24.7	13.9	7.9	3.0	1.1	1.1	1.5	1.5	1.5	4.3
100.5°	38.2	24.3	13.8	7.8	3.0	1.1	1.1	1.5	1.5	1.5	4.2
101°	37.7	23.8	13.6	7.8	3.0	1.1	1.1	1.6	1.6	1.6	4.1
101.5°	37.1	23.4	13.5	7.7	2.9	1.1	1.2	1.6	1.6	1.6	4.1
102°	36.6	23.0	13.3	7.6	2.9	1.2	1.2	1.6	1.6	1.6	4.0
102.5°	36.1	22.7	13.2	7.5	2.9	1.2	1.2	1.7	1.7	1.7	3.9
103°	35.7	22.4	13.1	7.4	2.8	1.2	1.3	1.7	1.7	1.7	3.8
103.5°	35.4	22.1	13.0	7.4	2.8	1.3	1.3	1.8	1.8	1.8	3.8
104°	35.1	21.9	12.9	7.3	2.8	1.3	1.3	1.8	1.8	1.8	3.7
104.5°	34.8	21.6	12.7	7.2	2.8	1.3	1.4	1.9	1.9	1.8	3.7
105°	34.7	21.5	12.6	7.2	2.8	1.4	1.4	1.9	1.9	1.9	3.6
105.5°	34.6	21.3	12.5	7.1	2.8	1.4	1.4	2.0	2.0	1.9	3.6
106°	34.5	21.3	12.4	7.0	2.7	1.4	1.5	2.0	2.0	2.0	3.6
106.5°	34.4	21.2	12.3	6.9	2.7	1.5	1.5	2.1	2.1	2.0	3.6
107°	34.4	21.2	12.1	6.8	2.7	1.5	1.5	2.1	2.1	2.1	3.6
107.5°	34.4	21.1	12.0	6.7	2.7	1.6	1.6	2.2	2.1	2.1	3.6
108°	34.4	21.1	11.9	6.6	2.7	1.6	1.6	2.2	2.2	2.2	3.6
108.5°	34.5	21.1	11.9	6.5	2.7	1.6	1.7	2.2	2.2	2.2	3.6
109°	34.5	21.1	11.8	6.4	2.7	1.7	1.7	2.3	2.3	2.2	3.6
109.5°	34.5	21.1	11.8	6.4	2.7	1.7	1.7	2.3	2.3	2.3	3.6
110°	34.6	21.1	11.7	6.3	2.7	1.8	1.8	2.4	2.3	2.3	3.7
110.5°	34.6	21.0	11.7	6.2	2.8	1.8	1.8	2.4	2.4	2.3	3.7
111°	34.6	21.0	11.8	6.2	2.8	1.8	1.9	2.4	2.4	2.4	3.7
111.5°	34.6	20.9	11.8	6.2	2.8	1.9	1.9	2.5	2.4	2.4	3.7
112°	34.7	20.9	11.8	6.1	2.9	1.9	2.0	2.5	2.5	2.4	3.7



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	34.7	20.8	11.9	6.1	2.9	2.0	2.0	2.5	2.5	2.5	3.7
113°	34.8	20.8	11.9	6.1	3.0	2.0	2.1	2.6	2.5	2.5	3.7
113.5°	34.8	20.7	11.9	6.1	3.0	2.1	2.1	2.6	2.6	2.5	3.8
114°	34.8	20.7	11.8	6.1	3.1	2.1	2.2	2.6	2.6	2.5	3.8
114.5°	34.8	20.7	11.8	6.2	3.1	2.2	2.2	2.7	2.6	2.6	3.8
115°	34.8	20.6	11.8	6.2	3.2	2.2	2.3	2.7	2.7	2.6	3.8
115.5°	34.8	20.6	11.7	6.3	3.2	2.3	2.3	2.7	2.7	2.6	3.8
116°	34.9	20.5	11.7	6.4	3.3	2.3	2.4	2.8	2.7	2.7	3.9
116.5°	34.9	20.5	11.6	6.5	3.4	2.4	2.4	2.8	2.8	2.7	3.9
117°	35.0	20.4	11.6	6.6	3.4	2.4	2.5	2.8	2.8	2.7	3.9
117.5°	35.1	20.4	11.6	6.7	3.5	2.5	2.5	2.9	2.8	2.8	3.9
118°	35.1	20.4	11.6	6.8	3.6	2.6	2.6	2.9	2.9	2.8	4.0
118.5°	35.2	20.3	11.6	6.9	3.7	2.6	2.6	2.9	2.9	2.8	4.0
119°	35.3	20.3	11.6	6.9	3.7	2.7	2.7	3.0	2.9	2.9	4.0
119.5°	35.3	20.3	11.6	7.0	3.8	2.7	2.8	3.0	3.0	2.9	4.0
120°	35.3	20.3	11.6	7.1	3.9	2.8	2.8	3.0	3.0	3.0	4.1
120.5°	35.4	20.2	11.6	7.1	3.9	2.9	2.9	3.1	3.0	3.0	4.1
121°	35.4	20.2	11.6	7.2	4.0	2.9	3.0	3.1	3.1	3.0	4.1
121.5°	35.4	20.2	11.7	7.3	4.0	3.0	3.0	3.1	3.1	3.1	4.2
122°	35.4	20.2	11.7	7.4	4.0	3.1	3.1	3.2	3.2	3.1	4.2
122.5°	35.5	20.3	11.8	7.4	4.1	3.1	3.1	3.2	3.2	3.1	4.3
123°	35.5	20.3	11.8	7.5	4.1	3.2	3.2	3.3	3.2	3.2	4.3
123.5°	35.5	20.4	11.9	7.6	4.2	3.2	3.3	3.3	3.3	3.2	4.3
124°	35.5	20.5	12.0	7.6	4.2	3.3	3.3	3.3	3.3	3.3	4.4
124.5°	35.6	20.6	12.0	7.6	4.2	3.3	3.4	3.4	3.3	3.3	4.5
125°	35.7	20.6	12.1	7.7	4.3	3.4	3.4	3.4	3.4	3.4	4.5
125.5°	35.8	20.8	12.2	7.7	4.3	3.4	3.5	3.5	3.5	3.4	4.6
126°	35.9	20.9	12.3	7.8	4.4	3.5	3.5	3.5	3.5	3.5	4.7
126.5°	36.1	21.0	12.4	7.8	4.4	3.5	3.6	3.6	3.6	3.5	4.8
127°	36.3	21.2	12.5	7.9	4.4	3.6	3.6	3.7	3.6	3.6	4.8
127.5°	36.5	21.3	12.6	7.9	4.4	3.6	3.7	3.7	3.7	3.6	4.9
128°	36.7	21.5	12.7	7.9	4.5	3.7	3.7	3.8	3.8	3.7	5.0
128.5°	37.0	21.6	12.7	8.0	4.5	3.7	3.8	3.9	3.8	3.8	5.0
129°	37.2	21.8	12.8	8.0	4.5	3.8	3.8	3.9	3.9	3.8	5.1
129.5°	37.5	21.9	12.9	8.0	4.6	3.8	3.9	4.0	4.0	3.9	5.1
130°	37.8	22.1	13.0	8.0	4.6	3.9	3.9	4.0	4.0	3.9	5.2
130.5°	38.1	22.3	13.1	8.1	4.6	3.9	4.0	4.1	4.1	4.0	5.2
131°	38.4	22.4	13.2	8.1	4.7	4.0	4.0	4.2	4.1	4.1	5.2
131.5°	38.7	22.6	13.3	8.1	4.7	4.0	4.1	4.2	4.2	4.1	5.3
132°	39.0	22.8	13.4	8.2	4.7	4.1	4.1	4.3	4.3	4.2	5.3
132.5°	39.3	23.0	13.5	8.2	4.8	4.1	4.2	4.4	4.3	4.2	5.3
133°	39.6	23.1	13.5	8.2	4.8	4.1	4.2	4.4	4.4	4.3	5.4
133.5°	39.8	23.3	13.6	8.3	4.8	4.2	4.3	4.5	4.5	4.4	5.4
134°	40.1	23.4	13.7	8.3	4.8	4.2	4.3	4.6	4.5	4.4	5.4
134.5°	40.4	23.5	13.7	8.3	4.9	4.3	4.3	4.6	4.6	4.5	5.5



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	40.6	23.6	13.8	8.3	4.9	4.3	4.4	4.7	4.6	4.6	5.5
135.5°	40.9	23.7	13.8	8.3	4.9	4.3	4.4	4.7	4.7	4.6	5.5
136°	41.1	23.8	13.9	8.3	4.9	4.4	4.4	4.8	4.8	4.7	5.6
136.5°	41.3	23.8	13.9	8.3	4.9	4.4	4.5	4.8	4.8	4.7	5.6
137°	41.5	23.9	13.9	8.3	4.9	4.4	4.5	4.9	4.9	4.8	5.6
137.5°	41.6	23.9	13.9	8.3	5.0	4.5	4.5	4.9	4.9	4.8	5.6
138°	41.8	24.0	14.0	8.3	5.0	4.5	4.6	5.0	5.0	4.9	5.7
138.5°	41.9	24.0	14.0	8.3	5.0	4.5	4.6	5.0	5.0	4.9	5.7
139°	41.9	24.0	14.0	8.3	5.0	4.6	4.7	5.1	5.1	5.0	5.7
139.5°	42.0	24.0	13.9	8.3	5.0	4.6	4.7	5.1	5.1	5.0	5.7
140°	42.0	24.0	13.9	8.3	5.0	4.6	4.7	5.2	5.1	5.1	5.7
140.5°	41.9	23.9	13.9	8.2	5.0	4.6	4.7	5.2	5.2	5.1	5.8
141°	41.9	23.9	13.8	8.2	5.0	4.7	4.7	5.2	5.2	5.2	5.8
141.5°	41.8	23.8	13.8	8.2	5.0	4.7	4.8	5.3	5.3	5.2	5.8
142°	41.6	23.7	13.7	8.1	5.0	4.7	4.8	5.3	5.3	5.2	5.8
142.5°	41.4	23.7	13.6	8.1	5.0	4.7	4.8	5.3	5.3	5.3	5.8
143°	41.2	23.6	13.6	8.0	5.0	4.7	4.8	5.4	5.4	5.3	5.8
143.5°	40.9	23.5	13.5	8.0	5.0	4.7	4.8	5.4	5.4	5.3	5.8
144°	40.6	23.4	13.4	7.9	5.0	4.7	4.8	5.4	5.4	5.4	5.8
144.5°	40.2	23.2	13.3	7.9	5.0	4.7	4.8	5.4	5.4	5.4	5.8
145°	39.8	23.1	13.2	7.8	5.0	4.7	4.8	5.5	5.5	5.4	5.8
145.5°	39.4	23.0	13.1	7.8	5.0	4.8	4.9	5.5	5.5	5.4	5.8
146°	38.9	22.8	13.0	7.7	5.0	4.8	4.9	5.5	5.5	5.4	5.8
146.5°	38.4	22.6	12.8	7.6	5.0	4.8	4.9	5.5	5.5	5.5	5.7
147°	37.8	22.4	12.7	7.6	4.9	4.8	4.9	5.5	5.5	5.5	5.7
147.5°	37.2	22.2	12.6	7.5	4.9	4.8	4.9	5.5	5.5	5.5	5.7
148°	36.4	22.0	12.4	7.4	4.9	4.8	4.9	5.5	5.5	5.5	5.6
148.5°	35.8	21.8	12.3	7.3	4.9	4.8	4.9	5.5	5.5	5.5	5.6
149°	35.0	21.5	12.2	7.3	4.9	4.9	5.0	5.5	5.5	5.5	5.6
149.5°	34.2	21.2	12.1	7.2	4.9	4.9	5.0	5.5	5.5	5.4	5.5
150°	33.4	20.9	11.9	7.1	4.9	4.9	5.0	5.4	5.5	5.4	5.5
150.5°	32.5	20.6	11.8	7.0	4.8	4.9	5.0	5.4	5.4	5.4	5.5
151°	31.7	20.3	11.6	6.9	4.8	4.9	5.0	5.4	5.4	5.4	5.4
151.5°	30.8	19.9	11.5	6.9	4.8	4.9	5.0	5.4	5.4	5.4	5.4
152°	29.9	19.6	11.3	6.8	4.8	4.9	5.0	5.4	5.4	5.4	5.3
152.5°	29.0	19.2	11.1	6.7	4.8	4.9	5.0	5.4	5.4	5.4	5.3
153°	28.0	18.8	11.0	6.6	4.7	4.9	5.0	5.4	5.4	5.4	5.3
153.5°	27.1	18.4	10.8	6.5	4.7	4.9	5.0	5.4	5.4	5.3	5.2
154°	26.1	17.9	10.6	6.4	4.7	4.9	5.0	5.3	5.3	5.3	5.2
154.5°	25.2	17.5	10.4	6.3	4.7	4.9	5.0	5.3	5.3	5.3	5.1
155°	24.2	17.0	10.2	6.1	4.7	4.9	5.0	5.3	5.3	5.3	5.1
155.5°	23.3	16.5	10.0	6.0	4.7	4.9	5.0	5.2	5.2	5.2	5.1
156°	22.3	16.1	9.8	5.9	4.7	4.9	5.0	5.2	5.2	5.2	5.1
156.5°	21.4	15.6	9.6	5.8	4.7	4.9	5.0	5.2	5.2	5.2	5.0
157°	20.5	15.0	9.3	5.6	4.7	4.9	5.1	5.2	5.2	5.2	5.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	19.6	14.5	9.1	5.5	4.7	4.9	5.1	5.2	5.2	5.1	5.0
158°	18.7	14.0	8.9	5.4	4.7	5.0	5.1	5.2	5.1	5.1	5.0
158.5°	17.8	13.5	8.6	5.2	4.7	5.0	5.1	5.2	5.1	5.1	5.0
159°	16.9	12.9	8.3	5.1	4.8	5.0	5.1	5.1	5.1	5.1	4.9
159.5°	16.1	12.4	8.0	5.0	4.8	5.0	5.2	5.1	5.1	5.1	4.9
160°	15.2	11.8	7.8	4.9	4.8	5.1	5.2	5.1	5.1	5.0	4.9
160.5°	14.4	11.3	7.5	4.8	4.8	5.1	5.2	5.1	5.1	5.0	4.9
161°	13.6	10.7	7.1	4.8	4.8	5.1	5.2	5.1	5.0	5.0	4.9
161.5°	12.8	10.1	6.8	4.7	4.8	5.1	5.2	5.0	5.0	5.0	4.8
162°	12.0	9.6	6.5	4.7	4.8	5.1	5.2	5.0	5.0	4.9	4.8
162.5°	11.3	9.0	6.2	4.6	4.8	5.0	5.2	5.0	5.0	4.9	4.8
163°	10.5	8.5	5.9	4.5	4.8	5.0	5.2	4.9	4.9	4.9	4.7
163.5°	9.9	8.0	5.6	4.6	4.8	5.1	5.2	4.9	4.9	4.9	4.7
164°	9.2	7.5	5.3	4.6	4.8	5.1	5.2	4.9	4.9	4.8	4.7
164.5°	8.6	7.0	5.2	4.6	4.9	5.1	5.3	4.9	4.8	4.8	4.7
165°	8.0	6.7	5.0	4.7	4.9	5.2	5.3	4.8	4.8	4.8	4.7
165.5°	7.5	6.3	4.8	4.8	5.0	5.2	5.4	4.8	4.8	4.8	4.7
166°	7.0	5.9	4.7	4.8	5.1	5.3	5.4	4.8	4.8	4.8	4.7
166.5°	6.6	5.5	4.7	4.9	5.1	5.3	5.5	4.8	4.8	4.8	4.7
167°	6.1	5.2	4.8	5.0	5.2	5.4	5.5	4.8	4.8	4.8	4.7
167.5°	5.7	4.9	4.9	5.0	5.2	5.4	5.6	4.8	4.8	4.8	4.7
168°	5.3	4.7	4.9	5.0	5.2	5.4	5.6	4.8	4.8	4.8	4.7
168.5°	4.9	4.7	4.9	5.0	5.3	5.4	5.6	4.8	4.8	4.8	4.7
169°	4.6	4.7	4.9	5.1	5.3	5.5	5.6	4.8	4.8	4.7	4.7
169.5°	4.5	4.7	4.9	5.1	5.3	5.5	5.7	4.7	4.7	4.7	4.6
170°	4.5	4.7	4.9	5.1	5.3	5.5	5.7	4.7	4.7	4.7	4.6
170.5°	4.6	4.8	5.0	5.1	5.3	5.5	5.7	4.7	4.7	4.6	4.6
171°	4.6	4.8	5.0	5.2	5.4	5.6	5.8	4.7	4.7	4.6	4.5
171.5°	4.6	4.8	5.0	5.2	5.4	5.6	5.8	4.7	4.7	4.6	4.5
172°	4.7	4.9	5.1	5.3	5.5	5.7	5.9	4.7	4.7	4.6	4.5
172.5°	4.8	5.0	5.2	5.4	5.6	5.8	6.0	4.7	4.6	4.6	4.4
173°	4.9	5.1	5.3	5.5	5.6	5.9	6.1	4.6	4.6	4.5	4.4
173.5°	5.0	5.2	5.4	5.5	5.7	6.0	6.2	4.6	4.6	4.5	4.4
174°	5.0	5.2	5.4	5.6	5.7	6.0	6.2	4.6	4.6	4.5	4.4
174.5°	5.0	5.2	5.4	5.6	5.7	6.0	6.2	4.6	4.5	4.5	4.3
175°	5.0	5.2	5.4	5.5	5.7	5.9	6.1	4.5	4.5	4.5	4.3
175.5°	5.0	5.2	5.4	5.5	5.7	5.9	6.1	4.5	4.5	4.4	4.3
176°	5.0	5.2	5.4	5.5	5.7	5.9	6.1	4.4	4.4	4.4	4.3
176.5°	5.0	5.2	5.3	5.5	5.7	5.9	6.0	4.4	4.4	4.3	4.2
177°	5.0	5.2	5.3	5.5	5.6	5.8	6.0	4.4	4.3	4.3	4.2
177.5°	5.0	5.1	5.3	5.4	5.6	5.8	5.9	4.3	4.3	4.2	4.1
178°	4.9	5.1	5.2	5.3	5.5	5.7	5.9	4.3	4.3	4.2	4.1
178.5°	4.9	5.0	5.2	5.3	5.5	5.7	5.8	4.2	4.2	4.2	4.1
179°	4.9	5.0	5.1	5.3	5.4	5.6	5.8	4.2	4.2	4.1	4.0
179.5°	4.8	5.0	5.1	5.2	5.4	5.6	5.7	4.2	4.1	4.1	4.0



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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: P973043

CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2	3985.2
0.5°	3933.2	3938.8	3949.0	3960.4	3971.1	3983.9	3998.1	4011.0	4020.1	4029.6	4041.6
1°	3913.8	3916.6	3930.0	3947.4	3963.2	3984.8	4011.6	4039.0	4064.8	4077.7	4087.8
1.5°	3941.0	3929.6	3923.1	3931.0	3953.9	3985.7	4021.2	4064.3	4083.9	4078.6	4059.3
2°	3979.3	3954.7	3938.6	3926.6	3943.7	3982.9	4035.8	4076.8	4066.3	4026.3	3970.4
2.5°	4017.3	3987.8	3964.2	3934.1	3935.3	3980.8	4045.8	4074.5	4022.2	3929.4	3828.1
3°	4046.3	4020.0	3983.5	3946.3	3929.7	3976.3	4052.8	4053.8	3944.9	3811.7	3696.3
3.5°	4051.4	4038.7	4005.2	3960.1	3926.3	3976.3	4060.8	4016.0	3862.2	3705.7	3622.7
4°	4009.9	4042.1	4025.7	3973.5	3931.3	3977.0	4064.1	3980.3	3777.0	3624.9	3595.1
4.5°	3940.5	4023.6	4044.8	3996.7	3934.4	3974.2	4062.4	3926.0	3687.1	3593.6	3611.2
5°	3883.9	3976.2	4049.9	4014.4	3939.4	3970.1	4059.1	3861.1	3631.1	3595.2	3625.0
5.5°	3856.3	3919.9	4036.9	4027.3	3932.6	3965.8	4043.9	3795.6	3593.3	3611.2	3586.0
6°	3860.0	3876.9	4005.0	4029.8	3932.8	3959.7	4025.1	3724.8	3578.5	3618.5	3488.8
6.5°	3875.8	3858.9	3958.5	4029.5	3932.3	3951.5	4002.7	3657.5	3584.9	3584.7	3361.8
7°	3861.9	3862.4	3910.1	4028.5	3930.8	3946.3	3974.4	3613.8	3594.9	3494.8	3262.0
7.5°	3810.8	3866.8	3863.2	4021.8	3933.7	3940.6	3941.6	3579.1	3598.5	3377.2	3238.4
8°	3724.1	3862.8	3839.6	4002.6	3939.0	3930.1	3906.5	3554.5	3574.4	3280.2	3295.5
8.5°	3605.2	3832.3	3829.3	3973.8	3938.9	3919.4	3868.3	3547.2	3525.8	3220.4	3407.2
9°	3483.1	3776.9	3830.7	3935.0	3940.1	3911.6	3829.3	3546.6	3445.5	3227.3	3515.2
9.5°	3409.3	3693.5	3828.9	3896.2	3940.9	3900.8	3779.2	3543.2	3358.3	3274.3	3574.0
10°	3377.2	3587.5	3824.8	3852.4	3939.2	3892.0	3739.8	3550.0	3275.1	3368.1	3559.0
10.5°	3373.6	3487.1	3807.1	3819.2	3938.6	3884.4	3701.9	3546.9	3202.7	3462.0	3490.3
11°	3360.1	3398.5	3774.0	3791.4	3937.3	3872.5	3659.0	3531.9	3179.3	3522.5	3430.9
11.5°	3321.3	3348.3	3722.7	3770.0	3931.6	3864.5	3623.0	3505.3	3189.5	3545.9	3414.5
12°	3217.1	3324.4	3655.0	3760.2	3924.8	3852.4	3582.4	3467.5	3228.3	3507.9	3471.0
12.5°	3084.7	3319.5	3579.5	3751.9	3915.0	3838.8	3544.0	3411.1	3288.0	3451.2	3579.3
13°	2946.0	3312.2	3489.2	3744.2	3904.0	3824.7	3511.1	3355.3	3351.5	3405.4	3730.8
13.5°	2846.6	3278.0	3404.0	3731.1	3879.7	3810.1	3484.5	3290.5	3411.2	3389.2	3846.8
14°	2790.3	3208.8	3335.9	3718.5	3863.5	3796.3	3456.6	3220.7	3445.7	3415.0	3888.7
14.5°	2757.7	3107.9	3275.6	3698.3	3839.4	3775.9	3436.1	3172.1	3454.6	3483.9	3868.4
15°	2716.1	2978.3	3238.9	3674.0	3816.8	3759.7	3415.1	3128.7	3436.8	3589.3	3807.8
15.5°	2643.4	2865.2	3219.9	3643.3	3790.9	3743.8	3401.3	3102.4	3393.5	3689.3	3750.4
16°	2532.1	2775.5	3203.3	3609.3	3763.7	3727.5	3385.7	3091.3	3350.8	3766.1	3741.4
16.5°	2403.8	2717.6	3188.2	3570.5	3735.4	3711.2	3372.6	3096.4	3317.5	3797.8	3789.5
17°	2279.3	2683.1	3168.5	3529.2	3708.6	3690.9	3359.8	3112.6	3305.5	3788.1	3862.0
17.5°	2175.8	2652.3	3125.5	3473.5	3677.9	3671.8	3343.0	3131.2	3313.0	3748.7	3934.1
18°	2099.1	2603.5	3059.7	3414.0	3645.3	3653.2	3329.7	3160.2	3346.1	3690.2	3986.3
18.5°	2033.9	2530.7	2972.1	3349.5	3612.2	3632.8	3310.9	3187.1	3397.1	3652.5	4015.6
19°	1966.8	2430.4	2871.0	3276.2	3575.8	3614.2	3295.8	3208.0	3452.1	3647.5	4038.6
19.5°	1884.6	2320.4	2776.5	3210.9	3546.0	3591.1	3277.5	3227.5	3514.4	3676.3	4070.3
20°	1789.1	2211.1	2695.7	3149.0	3512.1	3573.5	3252.0	3237.8	3558.4	3728.0	4135.9
20.5°	1678.4	2120.9	2623.5	3094.9	3484.8	3550.3	3227.9	3230.4	3585.6	3784.9	4242.5
21°	1571.0	2047.1	2573.0	3049.5	3457.1	3527.7	3198.7	3213.9	3598.1	3840.1	4389.1
21.5°	1504.9	1988.0	2536.8	3012.2	3428.5	3499.0	3164.4	3192.2	3587.2	3878.5	4544.2
22°	1438.8	1932.6	2500.9	2979.1	3403.3	3472.1	3133.0	3165.8	3557.9	3903.8	4700.8



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CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1372.8	1867.4	2461.3	2955.2	3381.4	3448.0	3103.9	3142.7	3515.1	3917.9	4833.7
23°	1306.7	1799.0	2413.3	2932.6	3358.3	3421.8	3070.9	3119.1	3474.8	3936.4	4911.7
23.5°	1242.2	1724.6	2352.2	2913.3	3340.0	3399.3	3037.2	3104.6	3445.8	3972.4	4971.8
24°	1205.2	1640.0	2278.0	2889.2	3317.6	3373.1	3000.0	3091.1	3432.8	4043.0	5041.5
24.5°	1172.9	1558.9	2204.4	2858.7	3295.8	3350.9	2960.7	3082.7	3439.1	4134.7	5118.5
25°	1142.0	1482.1	2128.4	2821.0	3274.6	3331.8	2927.7	3079.4	3459.0	4247.0	5221.5
25.5°	1110.3	1431.1	2060.6	2773.6	3254.8	3309.8	2894.6	3083.8	3490.4	4376.3	5345.0
26°	1080.1	1380.1	1996.3	2722.8	3232.0	3291.3	2861.4	3099.0	3519.6	4470.0	5434.0
26.5°	1049.9	1329.2	1937.5	2664.3	3213.7	3272.9	2838.2	3112.2	3545.4	4544.6	5493.6
27°	1020.0	1278.2	1887.6	2612.1	3192.2	3258.2	2815.8	3137.1	3573.3	4605.0	5523.2
27.5°	989.6	1227.7	1837.3	2553.2	3171.8	3239.6	2796.5	3161.6	3589.8	4640.0	5532.1
28°	957.8	1196.6	1788.4	2501.6	3148.4	3224.9	2782.2	3178.9	3602.5	4668.2	5541.1
28.5°	927.9	1168.2	1743.1	2461.0	3128.1	3207.9	2766.3	3199.3	3619.5	4709.7	5562.9
29°	898.2	1141.2	1694.1	2421.4	3102.7	3194.5	2755.3	3212.7	3640.2	4760.8	5579.6
29.5°	867.7	1112.8	1644.2	2386.3	3078.9	3178.0	2746.2	3213.1	3661.1	4822.8	5576.9
30°	838.2	1085.9	1599.0	2359.4	3055.6	3162.4	2735.4	3208.3	3699.3	4896.8	5552.2
30.5°	808.1	1059.5	1551.9	2331.2	3030.2	3145.5	2727.8	3193.7	3745.5	4949.3	5513.5
31°	778.5	1031.9	1505.6	2302.7	3003.6	3130.9	2720.6	3173.7	3793.7	4972.1	5474.6
31.5°	750.5	1004.5	1462.9	2277.1	2978.7	3116.1	2714.2	3148.8	3866.8	4981.0	5443.8
32°	723.7	977.5	1422.5	2247.8	2950.9	3101.4	2713.1	3119.5	3928.8	4972.8	5420.6
32.5°	696.0	949.7	1392.9	2213.6	2928.7	3087.4	2711.9	3095.0	3975.4	4966.0	5391.5
33°	670.1	922.5	1363.3	2184.6	2904.9	3076.0	2713.5	3079.6	4017.9	4967.5	5354.7
33.5°	645.5	896.2	1333.7	2150.2	2883.9	3064.1	2713.1	3071.0	4047.5	4970.4	5306.9
34°	621.0	869.3	1304.1	2119.1	2859.8	3053.4	2713.5	3066.9	4063.2	4969.1	5256.3
34.5°	598.3	842.1	1274.7	2091.4	2836.8	3045.1	2712.9	3069.6	4078.4	4959.3	5210.0
35°	576.8	816.2	1254.0	2064.3	2816.6	3035.8	2713.2	3077.4	4088.0	4936.7	5172.4
35.5°	554.6	789.0	1234.8	2039.1	2800.3	3026.9	2710.5	3081.8	4092.8	4902.3	5132.3
36°	535.4	764.6	1218.7	2019.5	2784.8	3017.4	2710.3	3086.6	4106.7	4863.8	5083.0
36.5°	516.2	740.8	1202.7	1998.4	2772.0	3010.8	2708.6	3093.1	4128.1	4826.9	5025.1
37°	496.4	717.0	1185.9	1980.6	2761.1	3004.9	2701.5	3092.9	4147.7	4792.4	4967.6
37.5°	478.4	695.6	1170.5	1965.6	2750.0	2997.9	2693.0	3094.0	4166.7	4760.6	4909.6
38°	461.3	676.7	1154.7	1947.3	2742.2	2992.6	2682.1	3096.8	4181.7	4726.2	4866.5
38.5°	444.0	657.6	1138.9	1932.5	2736.0	2988.4	2669.0	3099.7	4187.1	4694.0	4829.3
39°	428.2	639.3	1124.2	1919.1	2731.7	2983.5	2658.8	3102.8	4189.9	4657.8	4784.7
39.5°	412.2	622.4	1106.9	1901.4	2726.1	2977.9	2644.4	3110.5	4186.7	4617.6	4742.8
40°	396.5	606.1	1091.2	1888.5	2720.9	2974.4	2635.1	3117.9	4175.4	4585.2	4703.2
40.5°	381.4	590.8	1075.7	1874.7	2711.7	2964.8	2625.7	3126.1	4164.7	4557.8	4665.8
41°	366.8	576.8	1058.8	1858.5	2702.0	2956.2	2616.8	3136.6	4154.6	4525.0	4631.2
41.5°	353.0	562.8	1042.8	1843.2	2692.4	2946.7	2609.7	3143.9	4145.7	4493.8	4605.1
42°	340.6	550.5	1027.9	1828.7	2679.5	2938.1	2602.6	3151.4	4142.0	4461.0	4582.8
42.5°	327.8	537.7	1011.2	1811.2	2665.8	2931.2	2597.4	3162.9	4138.4	4427.6	4558.8
43°	315.7	525.8	995.7	1795.9	2652.5	2925.5	2594.0	3169.7	4127.4	4393.1	4529.5
43.5°	304.9	514.5	981.3	1781.3	2639.9	2922.5	2593.6	3176.3	4112.9	4361.1	4502.5
44°	294.0	503.4	965.6	1763.3	2627.9	2920.0	2596.0	3189.7	4091.9	4333.7	4477.1
44.5°	283.7	492.3	950.7	1748.4	2617.5	2916.5	2598.7	3198.6	4062.0	4309.5	4461.7



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CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	274.3	482.5	938.6	1734.7	2607.5	2915.1	2601.1	3207.7	4032.7	4285.0	4448.3
45.5°	265.3	472.4	926.5	1717.6	2598.5	2911.3	2603.6	3220.7	4008.7	4258.8	4435.4
46°	256.9	462.3	916.4	1703.9	2589.2	2908.4	2605.5	3228.6	3985.9	4228.4	4423.3
46.5°	249.3	453.0	907.7	1689.3	2578.2	2903.5	2604.8	3232.5	3967.4	4197.5	4414.3
47°	241.8	443.8	898.9	1674.3	2567.5	2898.0	2603.7	3240.7	3949.1	4167.3	4403.8
47.5°	235.0	434.1	892.2	1661.0	2557.2	2892.9	2601.5	3244.6	3927.9	4139.1	4393.8
48°	229.1	425.6	885.7	1646.1	2545.0	2886.2	2596.3	3246.9	3904.6	4111.1	4385.6
48.5°	222.8	416.9	878.9	1629.7	2534.8	2877.8	2589.5	3255.4	3880.1	4078.6	4376.6
49°	217.3	408.8	872.8	1614.4	2526.3	2870.6	2579.6	3260.9	3855.8	4045.6	4361.7
49.5°	212.0	401.1	867.3	1598.1	2515.4	2861.9	2570.1	3268.9	3835.8	4008.9	4347.8
50°	206.6	393.5	860.1	1580.2	2503.6	2853.3	2557.7	3279.6	3813.0	3970.7	4327.5
50.5°	201.6	386.1	854.5	1564.1	2493.1	2845.0	2543.1	3282.0	3788.7	3936.0	4304.0
51°	197.0	379.5	848.5	1545.0	2478.5	2836.0	2526.2	3283.8	3764.5	3897.2	4275.6
51.5°	192.2	372.4	840.6	1525.9	2464.4	2824.2	2506.5	3284.0	3733.7	3861.8	4243.1
52°	187.8	365.9	834.5	1510.1	2450.4	2808.2	2486.4	3276.8	3700.8	3830.8	4213.3
52.5°	183.7	359.4	826.4	1492.5	2435.8	2792.2	2463.5	3268.2	3664.8	3792.2	4180.4
53°	179.3	352.4	816.7	1476.4	2418.6	2772.3	2437.7	3256.4	3625.5	3754.2	4146.8
53.5°	175.3	345.8	808.3	1461.9	2402.1	2750.8	2411.3	3236.4	3584.8	3715.2	4124.2
54°	171.2	339.2	798.1	1446.3	2382.8	2724.7	2382.7	3212.7	3540.6	3674.6	4095.3
54.5°	166.9	332.4	788.5	1428.8	2362.1	2694.9	2351.8	3187.4	3497.1	3634.8	4059.4
55°	163.2	326.1	778.7	1413.9	2338.3	2659.4	2321.6	3160.0	3454.1	3597.5	4030.5
55.5°	159.2	319.7	767.9	1399.4	2314.1	2622.0	2286.8	3127.7	3409.8	3559.2	3992.1
56°	155.0	313.1	756.5	1384.8	2285.8	2580.7	2250.4	3092.1	3359.0	3517.4	3954.0
56.5°	151.3	307.1	746.8	1372.2	2258.3	2539.1	2212.8	3054.0	3312.2	3476.9	3918.3
57°	147.6	301.3	735.6	1360.3	2228.0	2491.3	2175.8	3009.9	3264.7	3437.1	3871.3
57.5°	143.9	295.3	724.3	1348.6	2197.9	2445.4	2136.8	2962.3	3219.5	3398.8	3828.8
58°	140.2	289.7	713.5	1337.4	2168.8	2398.4	2097.3	2908.7	3172.7	3352.9	3785.5
58.5°	136.6	284.2	702.2	1326.3	2139.5	2354.6	2061.2	2858.7	3124.4	3309.8	3736.4
59°	132.9	277.9	690.1	1315.2	2111.2	2311.0	2021.4	2804.7	3073.2	3262.4	3674.0
59.5°	129.1	271.5	677.7	1304.1	2080.7	2266.6	1983.8	2751.2	3023.1	3218.6	3612.6
60°	125.3	264.6	664.8	1293.0	2049.6	2221.7	1947.6	2698.5	2973.7	3177.8	3551.5
60.5°	121.5	257.5	650.9	1279.5	2019.3	2178.5	1910.7	2647.7	2925.1	3139.6	3482.6
61°	117.8	251.2	637.8	1265.5	1987.3	2132.9	1873.3	2592.4	2877.1	3101.0	3408.6
61.5°	114.2	244.9	623.0	1249.2	1956.2	2089.3	1837.1	2541.0	2826.3	3055.2	3341.9
62°	110.4	238.9	607.3	1230.9	1926.1	2045.9	1804.2	2486.9	2771.1	3003.0	3272.4
62.5°	107.0	233.0	592.4	1210.8	1894.8	2003.9	1769.6	2439.9	2716.6	2948.5	3201.7
63°	103.3	226.7	575.1	1187.5	1863.2	1965.6	1736.7	2388.7	2661.6	2888.9	3132.5
63.5°	99.8	220.3	559.1	1162.3	1831.4	1929.0	1703.5	2336.7	2607.5	2818.9	3057.4
64°	96.5	214.1	542.8	1138.7	1800.2	1890.5	1671.6	2287.3	2551.9	2747.3	2985.3
64.5°	93.2	207.4	526.0	1114.7	1765.9	1850.0	1638.6	2241.4	2497.5	2679.9	2919.2
65°	89.9	200.3	508.0	1092.0	1732.3	1810.1	1603.7	2192.6	2441.8	2610.2	2850.7
65.5°	86.7	193.6	492.0	1069.0	1694.8	1772.0	1569.8	2145.5	2386.1	2537.3	2782.8
66°	83.2	187.0	474.6	1042.8	1658.7	1730.4	1535.9	2099.7	2330.5	2470.8	2715.9
66.5°	79.9	180.0	458.0	1016.7	1622.6	1687.8	1498.7	2052.9	2272.7	2404.5	2646.8
67°	76.2	173.8	441.6	991.3	1585.5	1647.1	1462.2	2002.8	2216.3	2336.2	2582.5



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	72.2	168.1	426.2	963.9	1546.8	1610.3	1426.9	1954.2	2157.2	2271.1	2522.2
68°	66.2	162.1	410.6	934.7	1508.1	1573.6	1391.4	1905.7	2095.5	2204.9	2458.0
68.5°	59.3	156.3	396.0	906.1	1467.9	1534.2	1355.8	1861.0	2036.2	2145.9	2393.2
69°	51.6	150.7	382.1	876.4	1428.8	1492.3	1320.2	1811.1	1974.0	2087.3	2325.1
69.5°	46.8	145.2	368.5	847.3	1388.4	1452.3	1284.6	1764.9	1910.6	2027.1	2253.9
70°	45.4	139.6	355.2	819.2	1347.9	1409.0	1249.0	1719.5	1850.0	1970.9	2183.5
70.5°	44.3	134.0	342.5	787.6	1307.5	1365.8	1212.6	1672.0	1789.6	1914.1	2112.8
71°	43.3	128.3	330.0	760.0	1267.1	1322.5	1176.9	1622.8	1728.0	1853.9	2041.2
71.5°	42.5	121.2	318.5	735.1	1226.6	1279.3	1139.2	1575.7	1667.2	1792.2	1971.1
72°	41.5	113.3	306.7	711.7	1183.9	1235.9	1102.0	1528.2	1611.3	1737.1	1907.1
72.5°	40.6	107.5	294.9	688.3	1141.6	1190.5	1062.7	1477.8	1554.8	1676.8	1839.6
73°	39.8	103.4	282.0	664.8	1098.7	1148.3	1026.7	1423.2	1499.7	1613.6	1771.0
73.5°	38.9	99.1	269.7	641.9	1055.2	1106.3	992.4	1368.6	1449.5	1556.8	1708.6
74°	38.1	94.8	258.5	620.8	1013.6	1061.5	956.6	1313.9	1398.6	1494.6	1642.1
74.5°	37.3	91.0	248.9	600.5	972.0	1017.0	919.4	1259.3	1347.8	1436.5	1579.1
75°	36.5	87.3	238.8	581.4	931.6	974.9	883.7	1204.6	1297.0	1378.5	1515.1
75.5°	35.8	83.9	228.7	564.0	893.7	932.6	847.0	1145.8	1246.2	1320.4	1450.6
76°	35.0	80.7	219.3	548.2	857.0	891.2	810.9	1087.7	1195.1	1262.4	1386.0
76.5°	34.2	77.8	209.7	530.4	823.8	851.9	776.0	1036.3	1143.6	1204.5	1321.5
77°	33.4	74.8	200.9	512.8	789.2	812.3	739.5	984.3	1089.6	1148.7	1257.0
77.5°	32.6	72.0	193.6	495.6	756.7	769.8	703.6	931.4	1035.4	1094.8	1192.5
78°	31.7	69.1	185.9	475.8	720.0	726.6	668.3	882.7	985.2	1043.0	1133.7
78.5°	30.8	66.4	179.6	457.3	681.3	684.1	630.1	834.7	933.3	988.4	1071.1
79°	29.9	63.7	172.9	437.9	640.7	643.5	591.6	787.3	883.9	936.8	1010.7
79.5°	29.0	61.1	165.7	418.7	599.4	603.8	554.3	743.5	838.6	888.8	950.4
80°	28.1	58.6	157.1	398.6	558.1	563.9	517.3	699.9	792.5	837.4	891.9
80.5°	27.2	56.2	148.5	378.7	520.3	525.4	481.6	656.7	746.4	787.3	833.3
81°	26.3	53.8	139.9	358.2	484.8	487.6	450.3	616.0	703.8	740.5	781.3
81.5°	25.4	51.5	131.3	337.5	451.7	449.6	417.7	576.8	660.7	691.3	726.2
82°	24.6	49.2	122.7	316.9	418.1	411.1	384.2	536.6	619.5	644.8	672.2
82.5°	23.7	46.9	113.9	294.4	387.3	375.7	351.1	498.8	578.2	600.1	623.5
83°	22.9	44.6	105.1	272.7	356.7	341.3	321.7	462.1	538.0	557.4	575.9
83.5°	22.1	42.3	96.4	252.0	326.2	307.6	294.8	427.4	497.9	514.4	531.8
84°	21.3	40.2	88.3	230.9	296.2	275.6	269.5	393.6	460.4	477.7	493.0
84.5°	20.6	38.1	81.4	210.3	267.0	244.3	244.2	360.5	421.9	439.7	453.7
85°	19.9	36.2	74.9	190.9	239.6	214.9	222.3	330.0	387.7	406.5	418.8
85.5°	19.2	34.3	68.6	174.8	213.2	192.4	200.5	300.4	356.1	375.6	386.9
86°	18.5	32.6	63.3	158.8	193.2	169.9	181.3	272.2	325.9	346.5	357.0
86.5°	17.8	31.0	58.5	142.7	173.2	147.4	166.2	247.1	298.8	320.3	328.8
87°	17.2	29.4	54.3	126.6	153.1	124.9	151.0	226.0	276.1	297.8	305.0
87.5°	16.6	28.0	50.6	110.7	133.1	102.5	135.9	205.1	254.2	276.0	281.7
88°	16.0	26.7	47.4	99.9	113.1	87.9	121.0	187.9	235.1	256.2	260.9
88.5°	15.4	25.5	44.6	90.0	99.5	75.1	110.6	173.5	218.6	238.6	242.4
89°	14.9	24.4	42.2	81.6	88.4	64.9	101.1	164.0	204.1	223.2	225.2
89.5°	14.4	23.3	40.0	74.4	78.8	56.6	93.7	154.5	191.4	208.7	210.2



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	14.0	22.4	38.2	68.5	71.4	50.5	88.1	145.0	179.5	196.5	197.6
90.5°	13.5	21.5	36.7	63.7	65.8	45.9	83.6	135.5	168.8	185.2	186.0
91°	13.1	20.8	35.4	59.7	61.8	42.5	80.1	126.0	160.1	174.4	175.6
91.5°	12.6	20.1	34.4	56.4	58.9	40.1	77.5	120.9	154.7	164.6	165.6
92°	12.2	19.6	33.6	53.7	57.1	38.7	75.4	116.7	149.2	157.0	156.5
92.5°	11.9	19.1	33.0	51.6	55.7	37.8	73.8	113.1	143.8	151.5	151.0
93°	11.6	18.7	32.6	50.1	54.9	37.3	72.4	110.2	138.4	146.1	145.6
93.5°	11.4	18.3	32.3	49.2	54.4	37.2	71.2	107.6	133.0	140.6	140.2
94°	11.1	17.9	32.1	48.6	54.3	37.2	70.2	105.3	129.4	135.1	134.9
94.5°	10.9	17.5	32.0	48.2	54.3	37.5	69.4	103.3	126.3	131.3	131.3
95°	10.7	17.2	31.8	48.0	54.4	37.9	68.8	101.4	123.3	127.8	128.5
95.5°	10.5	16.9	31.7	47.8	54.4	38.4	68.5	99.6	120.5	124.7	125.9
96°	10.4	16.6	31.5	47.6	54.4	38.9	68.5	98.1	118.1	121.9	123.7
96.5°	10.2	16.4	31.3	47.3	54.2	39.6	68.7	96.7	115.8	119.4	121.7
97°	10.0	16.1	31.0	47.0	54.0	40.2	68.8	95.6	113.6	117.2	120.0
97.5°	9.9	15.9	30.7	46.5	53.7	40.9	69.1	94.7	111.8	115.2	118.6
98°	9.7	15.6	30.2	46.0	53.3	41.7	69.4	94.1	110.1	113.4	117.2
98.5°	9.6	15.4	29.6	45.4	52.9	42.5	69.7	93.6	108.6	111.9	116.1
99°	9.4	15.1	28.9	44.8	52.5	43.3	70.1	93.1	107.4	110.6	115.1
99.5°	9.2	14.9	28.2	44.1	52.2	44.1	70.6	92.8	106.2	109.3	114.2
100°	9.1	14.7	27.5	43.5	52.1	44.9	71.2	92.7	105.4	108.1	113.4
100.5°	8.9	14.5	26.8	42.8	52.0	45.7	71.8	92.6	104.8	107.2	112.3
101°	8.7	14.2	26.1	42.2	51.9	46.6	72.3	92.5	104.2	106.8	111.4
101.5°	8.5	14.0	25.5	41.6	52.0	47.5	72.9	92.5	103.8	106.5	111.2
102°	8.3	13.8	24.9	41.0	52.2	48.3	73.5	92.5	103.3	106.3	111.5
102.5°	8.0	13.7	24.4	40.6	52.5	49.2	74.2	92.5	102.9	106.0	111.3
103°	7.8	13.5	24.0	40.2	52.8	50.0	75.0	92.6	102.4	105.7	111.1
103.5°	7.6	13.4	23.6	39.8	53.2	50.9	75.7	92.7	102.1	105.5	110.9
104°	7.5	13.2	23.3	39.5	53.7	51.7	76.5	92.8	101.7	105.4	110.8
104.5°	7.3	13.1	23.0	39.3	54.3	52.6	77.2	92.9	101.3	105.3	110.7
105°	7.2	13.0	22.9	39.1	54.8	53.5	77.9	93.0	101.0	105.1	110.7
105.5°	7.2	12.9	22.7	38.9	55.4	54.4	78.7	93.1	100.5	105.0	110.6
106°	7.1	12.8	22.6	38.8	55.9	55.2	79.4	93.2	100.2	104.8	110.6
106.5°	7.0	12.7	22.5	38.7	56.5	56.0	80.1	93.2	99.8	104.6	110.5
107°	6.9	12.6	22.5	38.7	57.1	56.8	80.7	93.3	99.5	104.4	110.3
107.5°	6.9	12.4	22.4	38.7	57.7	57.6	81.4	93.4	99.2	104.1	110.1
108°	6.8	12.3	22.4	38.7	58.2	58.3	82.0	93.7	98.8	103.7	109.8
108.5°	6.7	12.2	22.4	38.7	58.6	59.0	82.6	94.0	98.6	103.4	109.4
109°	6.6	12.1	22.4	38.7	59.0	59.6	83.2	94.4	98.4	103.1	109.0
109.5°	6.6	12.0	22.4	38.8	59.4	60.3	83.8	94.9	98.4	102.9	108.6
110°	6.5	12.0	22.5	38.8	59.8	60.8	84.4	95.3	98.3	102.8	108.2
110.5°	6.4	11.9	22.5	38.9	60.3	61.4	85.0	95.8	98.2	102.7	107.9
111°	6.3	11.9	22.5	39.0	60.7	62.0	85.7	96.2	98.2	102.5	107.6
111.5°	6.2	11.9	22.5	39.0	61.2	62.7	86.3	96.6	98.2	102.5	107.3
112°	6.2	11.8	22.5	39.0	61.6	63.4	87.0	96.9	98.1	102.5	107.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	6.2	11.8	22.5	39.0	62.0	64.0	87.5	97.3	98.1	102.4	106.7
113°	6.2	11.7	22.5	39.0	62.5	64.6	88.0	97.6	98.1	102.4	106.6
113.5°	6.2	11.7	22.5	39.0	62.8	65.1	88.5	98.0	98.1	102.3	106.4
114°	6.2	11.7	22.4	39.0	63.2	65.5	88.9	98.3	98.1	102.2	106.4
114.5°	6.2	11.7	22.4	38.9	63.5	66.0	89.4	98.7	98.0	102.1	106.3
115°	6.2	11.6	22.3	38.9	63.9	66.5	89.8	99.0	98.0	102.0	106.3
115.5°	6.2	11.6	22.3	38.9	64.1	66.9	90.1	99.3	97.9	101.8	106.2
116°	6.2	11.6	22.2	38.8	64.3	67.1	90.4	99.5	97.9	101.8	106.1
116.5°	6.3	11.6	22.1	38.8	64.5	67.3	90.7	99.6	97.8	101.7	105.9
117°	6.3	11.6	22.1	38.8	64.8	67.5	90.9	99.7	97.8	101.7	105.8
117.5°	6.3	11.6	22.0	38.7	65.1	67.7	91.1	99.8	97.8	101.6	105.7
118°	6.4	11.7	22.0	38.7	65.4	67.8	91.1	99.9	97.8	101.5	105.6
118.5°	6.4	11.7	21.9	38.7	65.5	67.9	91.1	100.0	97.7	101.5	105.5
119°	6.5	11.8	21.9	38.7	65.6	67.9	91.0	100.0	97.7	101.4	105.3
119.5°	6.6	11.8	21.8	38.7	65.6	67.9	90.8	100.1	97.7	101.4	105.2
120°	6.6	11.9	21.8	38.7	65.6	67.7	90.6	100.1	97.7	101.4	105.1
120.5°	6.7	11.9	21.8	38.7	65.5	67.6	90.4	100.1	97.7	101.5	105.1
121°	6.8	12.0	21.8	38.7	65.5	67.3	90.1	100.1	97.7	101.5	105.0
121.5°	6.9	12.0	21.8	38.6	65.4	67.0	89.8	100.1	97.7	101.6	105.0
122°	7.0	12.1	21.8	38.6	65.4	66.6	89.4	100.0	97.8	101.7	104.9
122.5°	7.1	12.1	21.8	38.6	65.3	66.1	89.0	100.0	97.8	101.7	104.9
123°	7.2	12.2	21.8	38.6	65.2	65.7	88.5	100.0	97.9	101.8	104.9
123.5°	7.3	12.2	21.9	38.6	65.0	65.3	88.0	100.1	98.0	101.9	104.9
124°	7.4	12.3	21.9	38.6	64.9	64.8	87.5	100.1	98.1	102.0	104.9
124.5°	7.5	12.4	22.0	38.6	64.8	64.4	87.0	100.3	98.2	102.2	105.0
125°	7.6	12.4	22.0	38.7	64.7	64.0	86.5	100.4	98.4	102.3	105.0
125.5°	7.6	12.5	22.1	38.8	64.7	63.7	86.1	100.5	98.6	102.5	105.0
126°	7.7	12.6	22.2	38.9	64.6	63.3	85.6	100.7	98.8	102.6	105.0
126.5°	7.8	12.7	22.2	39.0	64.6	63.1	85.2	100.9	99.1	102.8	105.0
127°	7.9	12.7	22.3	39.1	64.6	62.8	84.8	101.1	99.3	102.9	105.0
127.5°	7.9	12.8	22.4	39.3	64.7	62.6	84.5	101.3	99.6	103.1	105.0
128°	8.0	12.9	22.5	39.4	64.7	62.5	84.1	101.5	99.9	103.2	105.0
128.5°	8.1	13.0	22.6	39.6	64.8	62.3	83.9	101.7	100.2	103.3	105.0
129°	8.1	13.0	22.6	39.8	64.9	62.2	83.6	101.9	100.5	103.5	105.0
129.5°	8.2	13.1	22.7	40.0	64.9	62.1	83.3	102.1	100.8	103.6	105.0
130°	8.3	13.2	22.8	40.2	65.0	62.0	83.0	102.2	101.1	103.6	104.9
130.5°	8.3	13.2	22.9	40.4	65.0	62.0	82.8	102.3	101.4	103.6	104.9
131°	8.3	13.3	23.0	40.6	65.1	61.9	82.5	102.4	101.6	103.6	104.8
131.5°	8.4	13.4	23.0	40.9	65.2	61.8	82.1	102.3	101.9	103.5	104.6
132°	8.4	13.4	23.1	41.1	65.2	61.7	81.8	102.3	102.1	103.4	104.4
132.5°	8.5	13.5	23.2	41.3	65.2	61.6	81.5	102.2	102.3	103.3	104.0
133°	8.5	13.6	23.3	41.5	65.1	61.5	81.1	102.0	102.4	103.1	103.7
133.5°	8.6	13.7	23.4	41.7	65.0	61.3	80.7	101.7	102.5	102.9	103.3
134°	8.6	13.8	23.5	42.0	64.9	61.1	80.2	101.4	102.6	102.7	102.8
134.5°	8.6	13.8	23.6	42.2	64.8	60.9	79.7	101.0	102.5	102.4	102.3



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	8.7	13.9	23.7	42.3	64.6	60.7	79.1	100.6	102.4	102.1	101.8
135.5°	8.7	13.9	23.8	42.5	64.3	60.4	78.6	100.1	102.2	101.8	101.2
136°	8.7	14.0	23.9	42.6	64.0	60.1	78.0	99.4	102.0	101.3	100.5
136.5°	8.7	14.1	24.0	42.8	63.7	59.7	77.3	98.8	101.6	100.8	99.7
137°	8.8	14.1	24.1	42.9	63.2	59.4	76.6	98.1	101.2	100.3	98.9
137.5°	8.8	14.2	24.1	43.0	62.7	59.0	75.9	97.3	100.6	99.7	98.1
138°	8.8	14.2	24.2	43.0	62.2	58.6	75.1	96.4	100.1	99.1	97.3
138.5°	8.8	14.2	24.2	43.0	61.7	58.1	74.3	95.4	99.3	98.4	96.5
139°	8.8	14.3	24.2	43.0	61.1	57.6	73.4	94.4	98.6	97.6	95.6
139.5°	8.8	14.3	24.2	42.9	60.4	57.0	72.5	93.3	97.7	96.8	94.8
140°	8.8	14.3	24.2	42.9	59.7	56.5	71.6	92.2	96.8	95.9	94.1
140.5°	8.8	14.3	24.2	42.7	59.0	55.8	70.5	90.9	95.7	94.9	93.3
141°	8.8	14.3	24.1	42.6	58.1	55.2	69.5	89.6	94.6	93.8	92.5
141.5°	8.8	14.2	24.1	42.3	57.2	54.5	68.4	88.3	93.5	92.7	91.7
142°	8.8	14.2	24.0	42.1	56.3	53.7	67.3	86.9	92.2	91.6	90.9
142.5°	8.8	14.1	23.9	41.8	55.4	52.9	66.1	85.4	90.8	90.2	90.1
143°	8.7	14.1	23.7	41.4	54.4	52.1	64.8	83.8	89.4	88.9	89.3
143.5°	8.7	14.0	23.6	41.0	53.4	51.2	63.5	82.2	87.9	87.6	88.5
144°	8.7	13.9	23.5	40.6	52.3	50.3	62.2	80.5	86.4	86.2	87.7
144.5°	8.6	13.8	23.3	40.1	51.2	49.4	60.8	78.8	84.7	84.8	86.7
145°	8.6	13.7	23.1	39.6	50.0	48.4	59.5	77.0	83.0	83.4	85.8
145.5°	8.5	13.6	22.9	39.0	48.9	47.4	58.0	75.2	81.4	82.1	84.8
146°	8.4	13.5	22.7	38.4	47.7	46.4	56.5	73.3	79.6	80.7	83.7
146.5°	8.3	13.3	22.5	37.8	46.4	45.3	55.1	71.4	77.8	79.3	82.5
147°	8.2	13.2	22.2	37.1	45.2	44.2	53.5	69.5	76.0	77.8	81.3
147.5°	8.1	13.0	21.9	36.3	44.0	43.1	52.0	67.6	74.1	76.5	80.0
148°	8.0	12.8	21.7	35.6	42.7	42.0	50.4	65.5	72.3	75.1	78.6
148.5°	7.9	12.7	21.4	34.7	41.4	40.9	48.9	63.5	70.5	73.7	77.3
149°	7.8	12.5	21.0	33.9	40.1	39.7	47.3	61.4	68.7	72.3	76.0
149.5°	7.6	12.3	20.7	33.0	38.8	38.6	45.7	59.3	66.9	70.8	74.5
150°	7.5	12.1	20.3	32.1	37.6	37.4	44.1	57.2	65.0	69.3	73.1
150.5°	7.3	11.9	19.9	31.1	36.3	36.2	42.5	55.1	63.0	67.8	71.6
151°	7.2	11.7	19.6	30.2	35.0	35.0	40.9	53.1	60.9	66.2	70.1
151.5°	7.0	11.5	19.2	29.2	33.7	33.9	39.3	51.1	59.0	64.5	68.7
152°	6.9	11.2	18.7	28.3	32.5	32.7	37.8	49.1	57.0	63.0	67.1
152.5°	6.7	10.9	18.3	27.3	31.3	31.6	36.3	47.1	55.0	61.3	65.6
153°	6.5	10.7	17.9	26.3	30.0	30.4	34.7	45.1	52.9	59.6	64.0
153.5°	6.4	10.4	17.4	25.3	28.8	29.3	33.2	43.2	50.8	58.0	62.4
154°	6.2	10.1	16.9	24.4	27.6	28.2	31.8	41.2	48.7	56.3	60.6
154.5°	6.0	9.8	16.4	23.3	26.4	27.0	30.4	39.3	46.6	54.6	58.9
155°	5.8	9.5	15.8	22.4	25.3	26.0	29.0	37.4	44.5	52.8	57.2
155.5°	5.6	9.1	15.3	21.4	24.2	24.9	27.6	35.5	42.3	50.8	55.5
156°	5.4	8.8	14.6	20.5	23.1	23.8	26.2	33.7	40.3	48.4	53.8
156.5°	5.2	8.4	14.0	19.5	22.0	22.8	24.9	31.9	38.2	46.1	52.2
157°	5.1	8.1	13.4	18.6	20.9	21.8	23.6	30.2	36.1	43.8	50.5



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.0	7.7	12.7	17.7	19.9	20.8	22.4	28.5	33.9	41.5	48.8
158°	4.9	7.4	12.1	16.8	18.9	19.8	21.2	26.8	31.8	39.2	47.1
158.5°	4.9	7.0	11.5	15.9	18.0	18.9	20.0	25.2	29.7	36.8	45.4
159°	4.8	6.6	10.9	15.1	17.0	17.9	18.9	23.7	27.6	34.4	43.0
159.5°	4.8	6.2	10.3	14.2	16.1	17.0	17.8	22.2	25.9	32.1	40.3
160°	4.8	5.9	9.7	13.4	15.2	16.1	16.8	20.7	24.3	29.9	37.6
160.5°	4.7	5.6	9.1	12.6	14.4	15.2	15.8	19.3	22.8	27.7	35.1
161°	4.7	5.4	8.5	11.7	13.5	14.4	14.9	18.0	21.2	25.6	32.5
161.5°	4.7	5.3	8.0	11.0	12.6	13.5	14.0	16.8	19.7	23.3	29.8
162°	4.7	5.1	7.4	10.3	11.8	12.7	13.1	15.7	18.3	21.0	27.3
162.5°	4.6	5.0	6.9	9.5	11.0	11.8	12.2	14.6	17.0	18.9	25.0
163°	4.6	4.9	6.4	8.9	10.3	11.1	11.3	13.4	15.8	16.9	22.6
163.5°	4.6	4.7	6.1	8.2	9.6	10.4	10.6	12.3	14.6	15.7	20.4
164°	4.6	4.6	5.7	7.6	9.0	9.7	9.9	11.2	13.4	14.6	18.4
164.5°	4.5	4.5	5.4	7.1	8.3	9.1	9.3	10.4	12.3	13.4	16.4
165°	4.5	4.5	5.1	6.5	7.8	8.5	8.6	9.5	11.1	12.3	14.4
165.5°	4.5	4.5	4.9	6.1	7.2	7.9	8.0	8.8	10.1	11.1	12.4
166°	4.5	4.5	4.7	5.7	6.7	7.3	7.5	8.1	9.3	10.2	10.5
166.5°	4.5	4.5	4.5	5.3	6.2	6.9	7.0	7.4	8.5	9.4	9.8
167°	4.6	4.5	4.5	5.0	5.8	6.4	6.5	6.8	7.8	8.6	9.2
167.5°	4.6	4.5	4.5	4.8	5.4	6.0	6.1	6.3	7.2	7.9	8.7
168°	4.6	4.5	4.5	4.5	5.1	5.5	5.7	5.8	6.6	7.3	8.2
168.5°	4.6	4.5	4.5	4.5	4.8	5.2	5.3	5.3	6.1	6.9	7.7
169°	4.5	4.5	4.5	4.5	4.5	4.8	4.9	4.9	5.6	6.6	7.3
169.5°	4.5	4.4	4.5	4.5	4.5	4.5	4.6	4.6	5.3	6.2	6.9
170°	4.5	4.4	4.4	4.4	4.5	4.5	4.5	4.5	5.2	6.0	6.6
170.5°	4.5	4.4	4.4	4.4	4.5	4.5	4.5	4.5	5.1	5.8	6.3
171°	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5	5.0	5.6	6.1
171.5°	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.6	4.9	5.4	5.9
172°	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.6	4.8	5.3	5.6
172.5°	4.4	4.3	4.4	4.4	4.4	4.5	4.6	4.6	4.8	5.2	5.5
173°	4.3	4.3	4.3	4.4	4.4	4.5	4.6	4.6	4.7	5.0	5.3
173.5°	4.3	4.3	4.3	4.3	4.4	4.5	4.6	4.6	4.7	5.0	5.2
174°	4.3	4.2	4.3	4.3	4.4	4.5	4.6	4.6	4.7	4.9	5.1
174.5°	4.3	4.2	4.3	4.3	4.4	4.5	4.6	4.7	4.7	4.9	5.0
175°	4.2	4.2	4.3	4.3	4.4	4.5	4.6	4.7	4.7	4.8	5.0
175.5°	4.2	4.2	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.8	4.9
176°	4.2	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.8	4.9
176.5°	4.1	4.1	4.2	4.2	4.3	4.4	4.6	4.7	4.7	4.8	4.9
177°	4.1	4.1	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
177.5°	4.1	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
178°	4.0	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
178.5°	4.0	4.0	4.0	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.9
179°	4.0	3.9	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.9	5.0
179.5°	3.9	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.0



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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: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	3985.2	3985.2	3985.2	3985.2
0.5°	4051.1	4059.1	4060.3	4047.6
1°	4087.7	4087.5	4083.0	4007.6
1.5°	4035.0	4006.4	3987.5	3864.4
2°	3911.5	3858.1	3827.3	3684.1
2.5°	3745.2	3691.9	3663.5	3578.7
3°	3635.1	3608.3	3603.1	3576.0
3.5°	3599.9	3606.5	3620.0	3602.9
4°	3619.5	3636.3	3632.7	3565.5
4.5°	3632.0	3603.4	3557.1	3422.5
5°	3576.0	3480.2	3399.0	3257.3
5.5°	3443.9	3314.0	3257.5	3199.9
6°	3299.9	3237.8	3245.1	3282.2
6.5°	3240.2	3283.1	3359.4	3438.4
7°	3278.1	3416.2	3510.3	3550.9
7.5°	3398.4	3547.5	3590.9	3536.4
8°	3523.3	3585.8	3551.8	3430.0
8.5°	3591.6	3521.6	3449.2	3370.3
9°	3556.9	3436.6	3416.7	3438.6
9.5°	3478.6	3425.4	3507.3	3630.4
10°	3422.7	3526.9	3707.6	3837.5
10.5°	3455.6	3711.2	3898.7	3930.6
11°	3572.0	3890.2	3965.9	3887.3
11.5°	3752.0	3962.3	3917.9	3789.8
12°	3892.1	3918.4	3824.8	3769.8
12.5°	3941.4	3833.3	3812.0	3866.0
13°	3908.2	3802.2	3903.8	3999.6
13.5°	3828.5	3867.5	4031.3	4067.1
14°	3784.8	3976.7	4099.4	4077.0
14.5°	3827.7	4063.4	4117.8	4085.6
15°	3917.2	4106.8	4137.2	4141.2
15.5°	4002.9	4124.6	4201.4	4290.2
16°	4056.9	4162.2	4334.6	4492.6
16.5°	4087.3	4255.8	4534.2	4712.1
17°	4110.8	4413.2	4748.7	4901.2
17.5°	4156.7	4620.6	4956.2	5046.2
18°	4255.8	4825.9	5110.2	5158.2
18.5°	4408.2	4999.4	5222.0	5272.2
19°	4594.3	5130.9	5331.9	5417.1
19.5°	4785.4	5233.6	5473.7	5600.4
20°	4932.5	5333.7	5649.8	5790.0
20.5°	5051.0	5474.0	5825.1	5947.5
21°	5140.5	5640.8	5971.2	6068.0
21.5°	5230.2	5799.2	6088.6	6159.3
22°	5347.4	5917.2	6176.5	6227.4



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	5486.0	6002.2	6243.2	6261.0
23°	5621.8	6075.7	6281.2	6273.4
23.5°	5734.8	6131.2	6285.6	6266.5
24°	5810.5	6170.4	6270.2	6245.1
24.5°	5849.9	6168.2	6246.3	6224.2
25°	5890.1	6147.9	6232.0	6192.3
25.5°	5935.9	6117.4	6220.6	6158.8
26°	5951.6	6101.2	6195.5	6120.4
26.5°	5950.3	6096.4	6156.4	6094.6
27°	5930.9	6078.7	6110.8	6074.9
27.5°	5894.8	6037.5	6089.4	6030.6
28°	5871.8	5976.3	6065.7	5977.6
28.5°	5855.7	5931.8	6029.8	5916.6
29°	5834.4	5918.9	5973.0	5859.0
29.5°	5803.9	5904.1	5903.2	5799.6
30°	5755.3	5854.6	5839.0	5753.2
30.5°	5700.8	5772.8	5789.4	5704.3
31°	5664.1	5706.1	5753.4	5651.3
31.5°	5636.2	5661.5	5714.1	5593.4
32°	5604.7	5634.0	5650.5	5531.0
32.5°	5546.9	5595.4	5569.9	5482.0
33°	5472.0	5535.4	5501.6	5426.2
33.5°	5415.3	5461.9	5444.8	5347.6
34°	5372.7	5395.6	5386.2	5253.4
34.5°	5329.9	5339.8	5305.9	5177.1
35°	5273.0	5297.0	5233.5	5125.9
35.5°	5203.5	5249.7	5174.3	5095.0
36°	5138.6	5193.2	5132.9	5079.2
36.5°	5086.2	5133.5	5114.8	5083.0
37°	5041.4	5089.1	5107.7	5102.0
37.5°	5006.4	5056.3	5117.3	5124.4
38°	4968.7	5043.7	5135.9	5158.3
38.5°	4928.5	5042.9	5166.4	5192.7
39°	4885.1	5047.4	5203.8	5233.4
39.5°	4846.0	5067.4	5246.2	5273.2
40°	4821.3	5094.6	5292.1	5312.8
40.5°	4805.5	5129.2	5340.4	5350.7
41°	4799.7	5166.2	5384.3	5383.1
41.5°	4798.8	5202.4	5413.8	5414.9
42°	4811.0	5230.9	5439.9	5432.8
42.5°	4825.5	5257.0	5467.1	5463.5
43°	4833.6	5276.5	5500.3	5496.9
43.5°	4846.9	5292.9	5526.2	5522.3
44°	4861.0	5313.6	5543.3	5540.4
44.5°	4871.9	5326.6	5568.5	5536.2



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	4884.1	5336.7	5574.2	5528.5
45.5°	4895.0	5347.0	5563.4	5495.3
46°	4903.4	5349.7	5543.8	5461.2
46.5°	4905.2	5347.0	5498.8	5401.1
47°	4908.7	5327.7	5454.1	5350.0
47.5°	4905.2	5304.4	5404.1	5292.5
48°	4896.5	5259.2	5355.1	5254.2
48.5°	4887.7	5214.3	5309.4	5207.2
49°	4870.4	5165.1	5250.8	5145.5
49.5°	4850.7	5123.1	5189.8	5074.2
50°	4822.8	5070.5	5115.2	5003.4
50.5°	4798.7	5022.4	5044.5	4947.6
51°	4753.7	4967.1	4975.6	4900.3
51.5°	4709.1	4900.1	4919.8	4859.4
52°	4659.2	4834.6	4865.0	4817.3
52.5°	4613.3	4775.2	4819.9	4779.7
53°	4569.0	4722.0	4772.6	4727.7
53.5°	4521.7	4672.6	4716.5	4675.5
54°	4473.7	4618.1	4666.0	4628.5
54.5°	4417.9	4572.8	4614.8	4575.6
55°	4363.0	4522.7	4560.4	4507.9
55.5°	4312.1	4473.5	4485.4	4425.7
56°	4268.4	4408.7	4401.6	4340.3
56.5°	4220.4	4338.1	4311.2	4244.7
57°	4159.9	4257.5	4228.4	4168.2
57.5°	4092.1	4186.3	4149.6	4097.8
58°	4025.5	4099.7	4072.8	4021.7
58.5°	3961.9	4023.5	3996.1	3948.3
59°	3892.1	3944.2	3917.1	3864.9
59.5°	3813.3	3860.7	3830.7	3770.1
60°	3734.0	3774.4	3738.2	3659.9
60.5°	3654.2	3692.3	3641.0	3553.4
61°	3574.1	3597.6	3535.2	3447.9
61.5°	3497.7	3505.8	3435.6	3349.4
62°	3411.0	3408.9	3337.7	3265.0
62.5°	3328.3	3318.5	3248.9	3190.4
63°	3247.0	3231.6	3180.8	3136.8
63.5°	3163.0	3156.0	3118.5	3086.4
64°	3081.8	3078.8	3060.0	3031.3
64.5°	3008.5	3017.0	2999.1	2971.4
65°	2939.1	2956.0	2937.4	2912.0
65.5°	2870.0	2888.6	2867.0	2831.1
66°	2803.9	2816.6	2792.2	2739.8
66.5°	2738.1	2744.6	2714.5	2652.0
67°	2667.6	2665.6	2629.2	2570.2



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	2599.3	2582.8	2545.9	2494.5
68°	2526.4	2501.1	2477.9	2426.6
68.5°	2447.1	2428.8	2413.2	2360.3
69°	2368.8	2356.1	2347.9	2298.8
69.5°	2296.4	2288.2	2283.3	2230.6
70°	2224.6	2218.1	2213.0	2154.6
70.5°	2154.4	2149.1	2140.0	2080.0
71°	2083.3	2080.5	2068.2	2007.6
71.5°	2014.0	2007.5	1994.2	1935.3
72°	1942.2	1937.4	1921.5	1870.3
72.5°	1873.6	1869.8	1852.6	1805.5
73°	1806.5	1796.2	1782.3	1734.5
73.5°	1740.2	1722.6	1710.2	1662.8
74°	1671.4	1654.9	1636.8	1592.7
74.5°	1599.0	1587.5	1562.4	1511.5
75°	1531.6	1511.2	1490.1	1432.7
75.5°	1462.5	1440.4	1417.9	1355.2
76°	1393.2	1369.5	1345.7	1277.6
76.5°	1324.0	1298.7	1273.4	1203.7
77°	1254.8	1227.9	1201.1	1133.9
77.5°	1185.9	1157.2	1127.2	1064.5
78°	1122.7	1089.6	1058.5	998.7
78.5°	1058.6	1023.3	990.2	937.3
79°	993.0	957.8	926.2	878.1
79.5°	928.7	890.8	865.6	817.6
80°	863.9	830.8	810.4	767.0
80.5°	804.2	774.4	756.1	717.2
81°	748.0	723.0	707.7	670.5
81.5°	692.5	675.9	664.6	629.5
82°	643.0	631.0	621.8	589.6
82.5°	595.2	586.8	578.4	549.8
83°	551.0	548.5	540.4	509.9
83.5°	511.0	509.1	502.1	470.0
84°	474.3	469.6	463.6	430.2
84.5°	440.1	434.2	428.1	396.9
85°	408.3	402.2	394.7	365.1
85.5°	377.8	369.5	363.7	337.8
86°	349.7	341.1	336.4	312.8
86.5°	323.8	315.4	310.1	290.1
87°	299.7	291.2	287.2	269.9
87.5°	276.2	270.6	268.4	252.5
88°	256.3	251.7	250.8	236.4
88.5°	237.8	234.6	234.9	222.8
89°	222.1	220.5	221.6	210.6
89.5°	207.5	207.4	209.1	199.5



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	194.8	195.8	197.9	190.1
90.5°	183.7	186.4	189.1	181.8
91°	174.8	178.1	180.9	174.4
91.5°	166.3	170.7	173.6	168.4
92°	158.2	164.1	168.0	162.9
92.5°	153.6	157.3	161.7	156.6
93°	148.9	151.0	155.4	150.8
93.5°	144.3	147.9	150.4	146.7
94°	139.7	144.9	148.1	143.8
94.5°	135.1	141.8	145.8	141.4
95°	132.5	138.8	143.5	139.6
95.5°	130.5	136.7	141.1	137.7
96°	128.4	134.7	138.8	135.6
96.5°	126.7	133.3	137.3	134.4
97°	125.3	132.0	136.1	133.5
97.5°	124.0	130.9	135.0	132.7
98°	123.0	130.0	134.2	131.8
98.5°	122.1	129.2	133.2	130.8
99°	121.2	128.3	132.3	130.1
99.5°	120.3	127.5	131.5	129.3
100°	119.6	126.6	130.6	128.3
100.5°	118.9	125.8	129.7	127.3
101°	117.5	125.0	128.7	126.3
101.5°	116.2	123.1	127.1	124.0
102°	116.0	121.4	124.7	122.1
102.5°	116.4	121.2	123.3	121.2
103°	116.2	121.6	123.2	121.5
103.5°	115.8	121.3	123.5	121.4
104°	115.4	120.7	123.0	120.9
104.5°	115.1	120.1	122.3	120.2
105°	114.8	119.5	121.5	119.4
105.5°	114.5	119.1	120.9	118.7
106°	114.2	118.6	120.2	118.0
106.5°	114.1	118.2	119.6	117.4
107°	113.9	117.9	119.2	117.0
107.5°	113.7	117.5	118.8	116.6
108°	113.3	117.1	118.3	116.0
108.5°	112.9	116.7	117.8	115.2
109°	112.4	116.1	117.0	114.4
109.5°	111.8	115.4	116.2	113.5
110°	111.1	114.6	115.4	112.4
110.5°	110.6	113.8	114.5	111.4
111°	110.0	113.1	113.5	110.4
111.5°	109.5	112.5	112.7	109.5
112°	109.0	111.7	111.8	108.5



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	108.5	111.0	111.0	107.6
113°	108.0	110.3	110.2	106.8
113.5°	107.6	109.6	109.4	106.0
114°	107.3	108.9	108.6	105.4
114.5°	107.1	108.3	107.9	104.7
115°	107.0	107.8	107.2	104.1
115.5°	106.9	107.4	106.6	103.4
116°	106.8	107.1	106.0	102.7
116.5°	106.8	106.9	105.6	102.1
117°	106.7	106.8	105.2	101.7
117.5°	106.7	106.7	104.9	101.4
118°	106.7	106.7	104.8	101.2
118.5°	106.7	106.6	104.6	101.1
119°	106.7	106.7	104.5	100.9
119.5°	106.6	106.7	104.5	101.0
120°	106.5	106.7	104.5	101.0
120.5°	106.4	106.7	104.7	101.2
121°	106.4	106.7	104.7	101.4
121.5°	106.4	106.7	104.8	101.5
122°	106.3	106.7	104.8	101.6
122.5°	106.4	106.8	104.8	101.7
123°	106.3	106.8	104.8	101.9
123.5°	106.3	106.8	104.9	102.1
124°	106.2	106.8	105.0	102.3
124.5°	106.2	106.9	105.1	102.6
125°	106.2	106.9	105.2	102.8
125.5°	106.3	107.1	105.3	103.0
126°	106.3	107.1	105.5	103.3
126.5°	106.4	107.2	105.7	103.6
127°	106.4	107.4	105.7	103.6
127.5°	106.4	107.5	105.7	103.6
128°	106.5	107.7	105.7	103.7
128.5°	106.6	107.8	105.7	103.7
129°	106.7	107.9	105.7	103.7
129.5°	106.7	108.0	105.7	103.6
130°	106.7	108.1	105.7	103.6
130.5°	106.7	108.1	105.6	103.5
131°	106.6	108.1	105.6	103.4
131.5°	106.5	108.0	105.5	103.2
132°	106.5	107.9	105.4	103.1
132.5°	106.3	107.7	105.1	102.8
133°	106.1	107.5	104.9	102.5
133.5°	105.9	107.3	104.5	102.0
134°	105.6	107.0	104.1	101.5
134.5°	105.3	106.6	103.6	100.9



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	104.8	106.2	103.0	100.2
135.5°	104.4	105.7	102.5	99.4
136°	104.0	105.1	101.9	98.7
136.5°	103.5	104.5	101.3	97.8
137°	102.9	103.8	100.6	96.9
137.5°	102.2	103.2	99.8	96.0
138°	101.4	102.6	99.0	94.9
138.5°	100.5	101.8	98.1	93.9
139°	98.9	101.1	97.3	92.9
139.5°	98.2	100.3	96.6	92.2
140°	97.6	99.3	95.8	91.2
140.5°	96.9	98.3	95.0	90.4
141°	96.3	96.8	94.0	89.3
141.5°	95.6	95.6	92.9	88.0
142°	94.9	94.9	91.7	86.7
142.5°	94.0	94.2	89.6	84.0
143°	93.1	93.5	88.6	83.2
143.5°	92.2	92.9	87.8	82.6
144°	91.3	92.1	87.0	81.9
144.5°	90.2	91.2	86.2	81.3
145°	89.2	90.4	85.4	80.7
145.5°	88.1	89.5	84.5	79.9
146°	86.9	88.5	83.5	79.1
146.5°	85.8	87.5	82.6	78.4
147°	84.6	86.5	81.6	77.5
147.5°	83.3	85.3	80.6	76.7
148°	82.0	84.2	79.6	75.9
148.5°	80.8	83.0	78.6	75.0
149°	79.4	81.6	77.5	74.0
149.5°	78.0	80.3	76.4	73.1
150°	76.6	79.1	75.3	72.1
150.5°	75.1	77.7	74.1	71.1
151°	73.6	76.2	73.0	70.1
151.5°	72.2	74.8	71.9	68.9
152°	70.7	73.3	70.6	67.8
152.5°	69.2	71.7	69.2	66.6
153°	67.7	70.2	67.9	65.3
153.5°	66.1	68.6	66.5	64.8
154°	64.5	67.0	65.1	63.5
154.5°	63.0	65.5	63.8	62.3
155°	61.3	63.9	62.5	61.0
155.5°	59.7	62.3	61.1	59.7
156°	58.1	60.7	59.7	58.4
156.5°	56.4	59.0	58.3	57.1
157°	54.6	57.4	57.0	55.8



REPORT NUMBER: P973043
 CATALOG NUMBER: WP-6984-90W-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	52.9	55.7	55.7	54.4
158°	51.2	53.9	54.2	53.0
158.5°	49.6	52.2	52.7	51.5
159°	47.9	50.5	51.1	49.9
159.5°	46.2	48.8	49.6	48.4
160°	44.5	47.1	48.0	46.9
160.5°	42.7	45.5	46.5	45.3
161°	40.6	43.8	45.0	43.8
161.5°	37.6	42.0	43.5	42.4
162°	34.8	40.4	42.0	40.8
162.5°	32.0	38.0	40.4	39.2
163°	29.0	34.7	38.6	37.5
163.5°	26.4	31.8	36.1	34.8
164°	23.9	28.9	32.9	31.7
164.5°	21.5	26.0	29.8	28.7
165°	19.3	23.4	27.0	25.9
165.5°	17.2	20.9	24.2	23.1
166°	15.2	18.8	21.6	20.6
166.5°	13.1	16.6	19.3	18.3
167°	11.0	14.5	17.0	16.1
167.5°	9.0	12.3	14.8	13.9
168°	8.6	10.1	12.5	11.5
168.5°	8.1	8.0	10.3	9.1
169°	7.7	7.7	8.2	6.9
169.5°	7.3	7.3	7.6	6.6
170°	7.0	7.0	7.4	6.3
170.5°	6.6	6.8	7.1	6.0
171°	6.4	6.5	6.9	5.6
171.5°	6.1	6.3	6.7	5.4
172°	5.9	6.2	6.5	5.2
172.5°	5.7	6.0	6.3	4.9
173°	5.5	5.7	6.1	4.8
173.5°	5.4	5.5	5.9	4.6
174°	5.3	5.4	5.8	4.5
174.5°	5.2	5.3	5.6	4.3
175°	5.1	5.2	5.3	4.2
175.5°	5.0	5.2	5.3	4.1
176°	5.0	5.1	5.2	4.0
176.5°	4.9	5.1	5.2	3.9
177°	4.9	5.1	5.2	3.9
177.5°	5.0	5.1	5.2	3.9
178°	5.0	5.1	5.3	3.9
178.5°	5.0	5.1	5.3	4.0
179°	5.1	5.2	5.4	4.0
179.5°	5.1	5.3	5.4	4.1



REPORT NUMBER: P973043
CATALOG NUMBER: WP-6984-90W-3000K

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: SP1-2410-249-1

Test Date: 10/24/2024

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

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

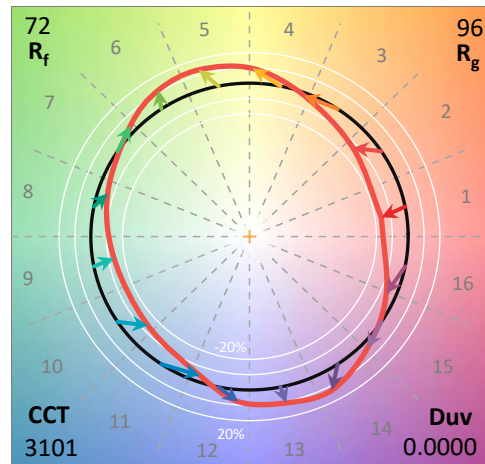
Test Information

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

Spectral Parameters

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

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



Test Conditions

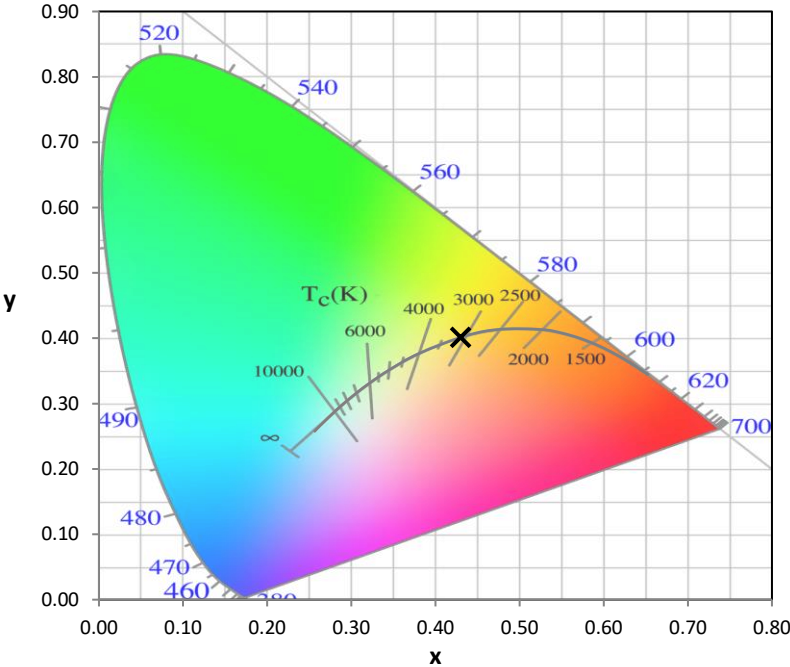
Stabilization Time: 49M
 Operation Time: 1H 49M
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-1

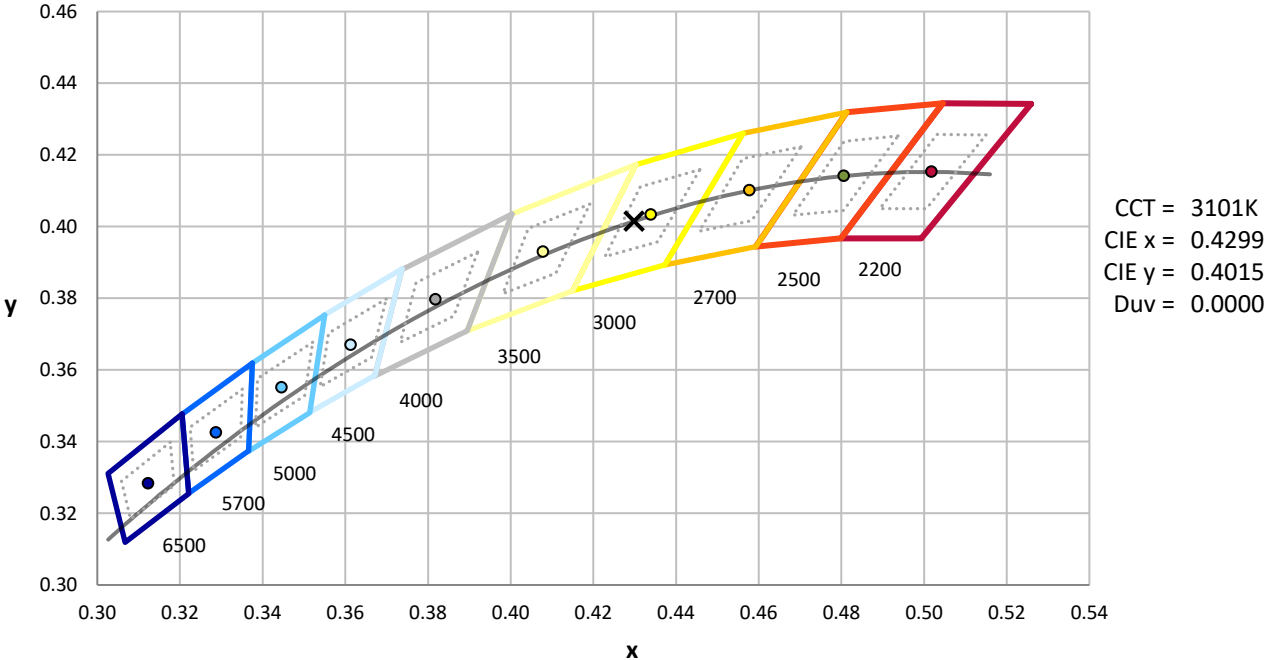
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2410-249-1

CIE 1931 Chromaticity Diagram



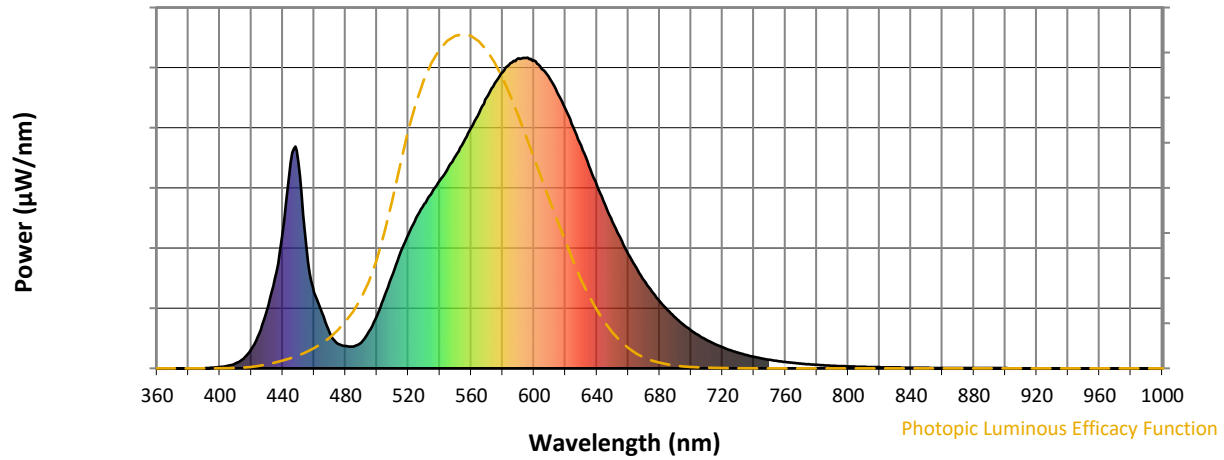
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-1

Photopic Flux vs. Wavelength

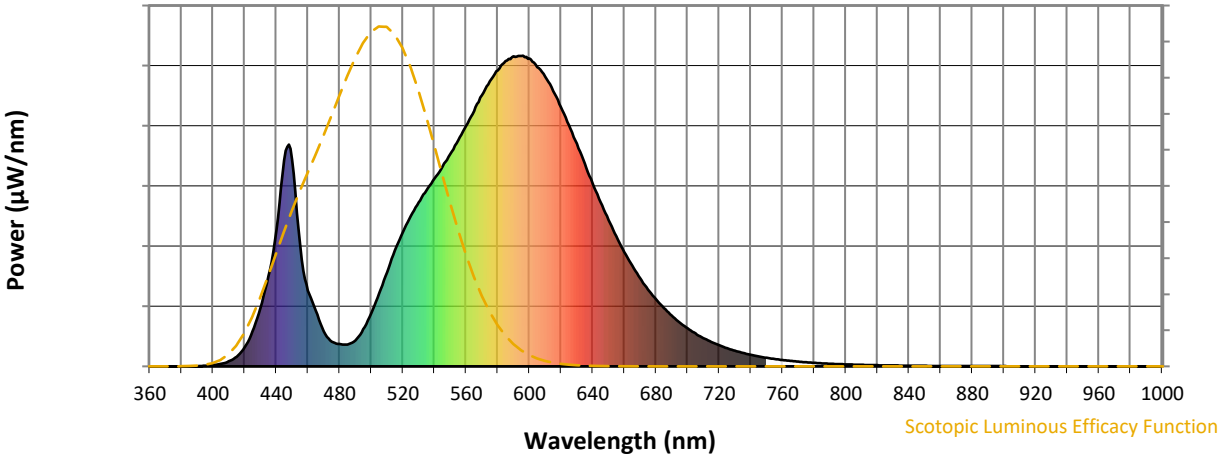


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2410-249-1

Scotopic Flux vs. Wavelength

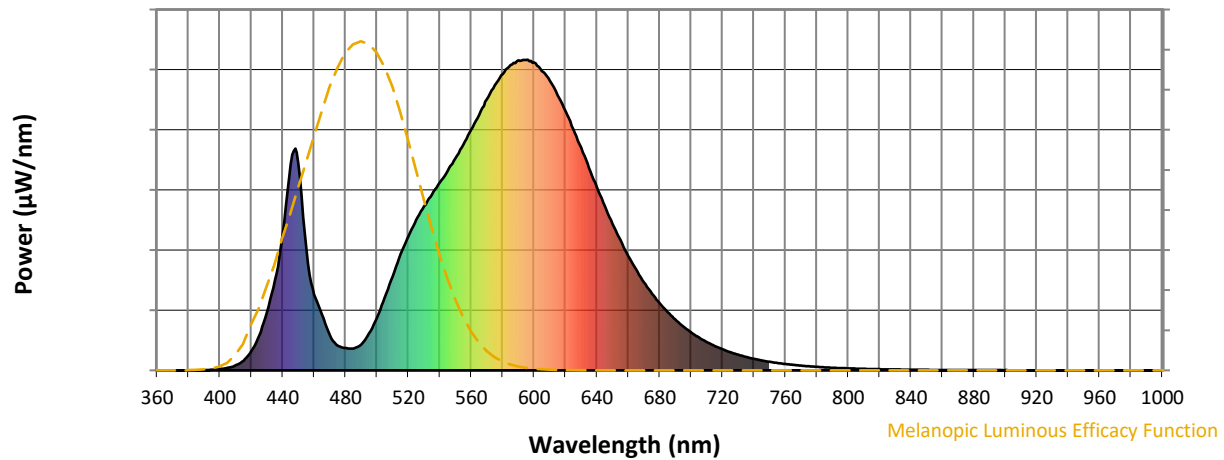


Scotopic Lumens: NR S/P: 1.21

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

REPORT NUMBER: SP1-2410-249-1

Melanopic Flux vs. Wavelength



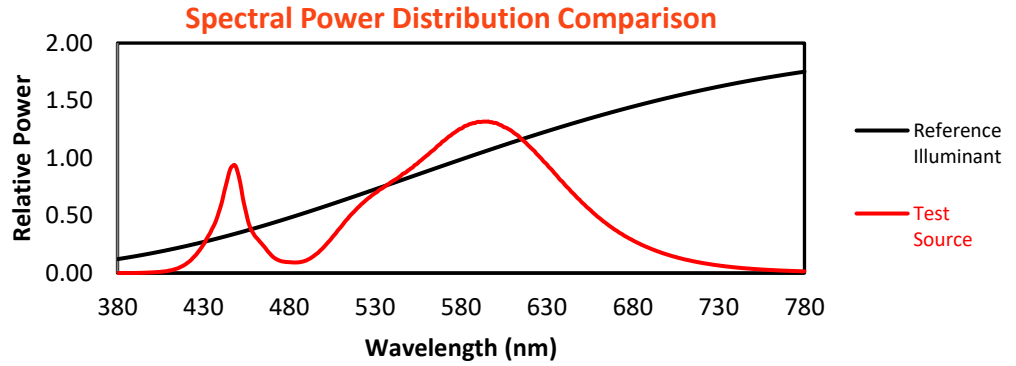
Melanopic Lumens: NR

M/P: 2.18

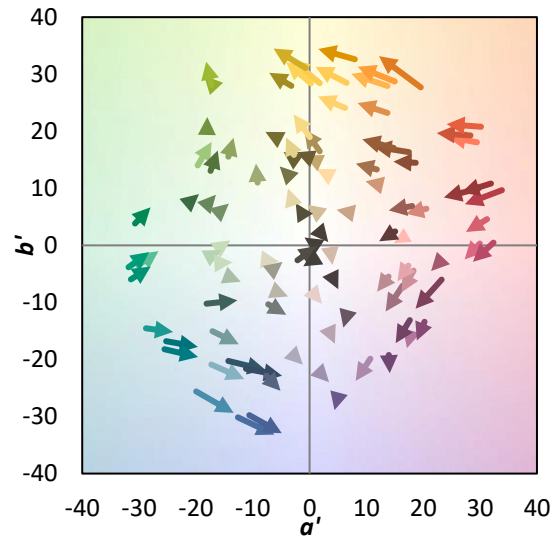
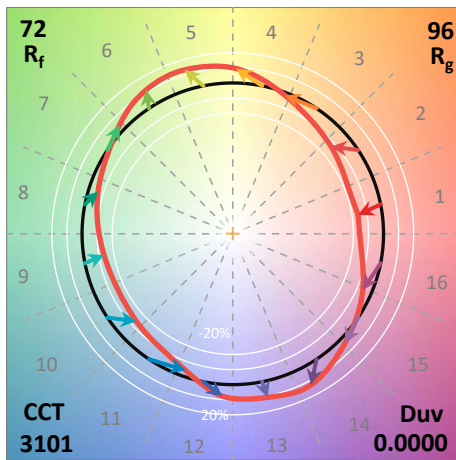
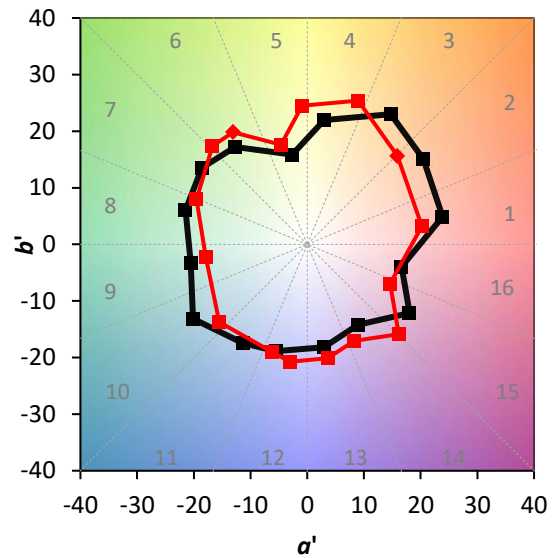
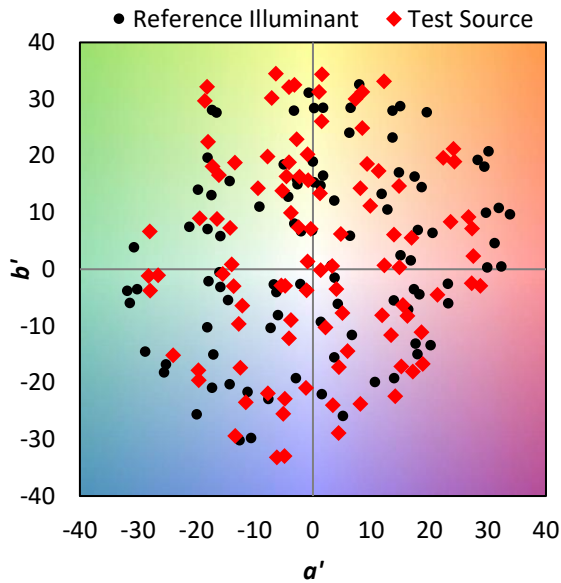
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	84	NR	620	834	NR	750	28	NR	880	1	NR
365	0	NR	495	119	NR	625	776	NR	755	24	NR	885	1	NR
370	0	NR	500	170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

Summary

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

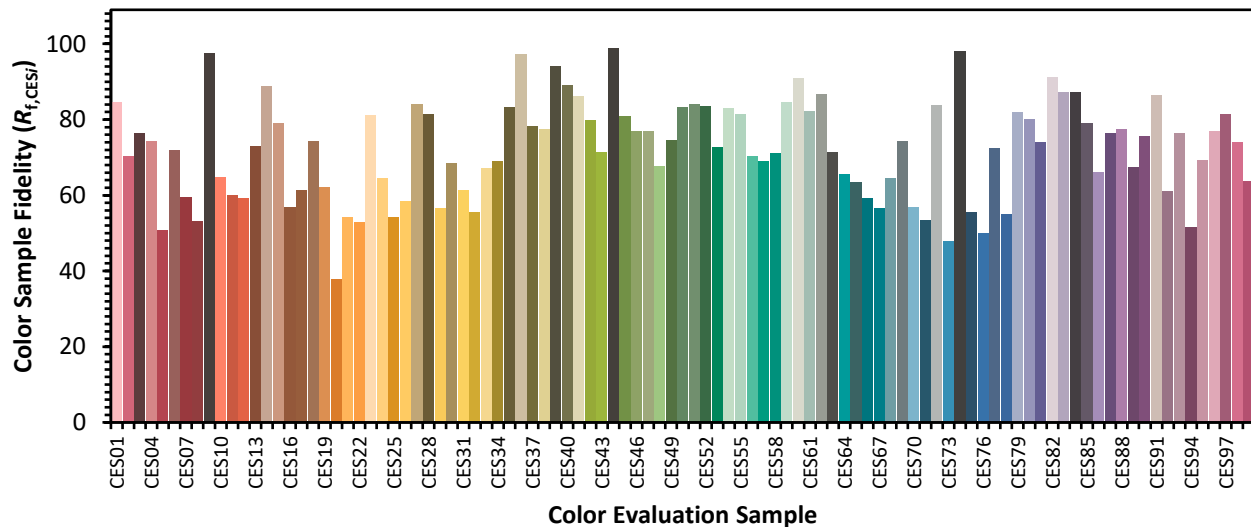


Color Vector Graphics

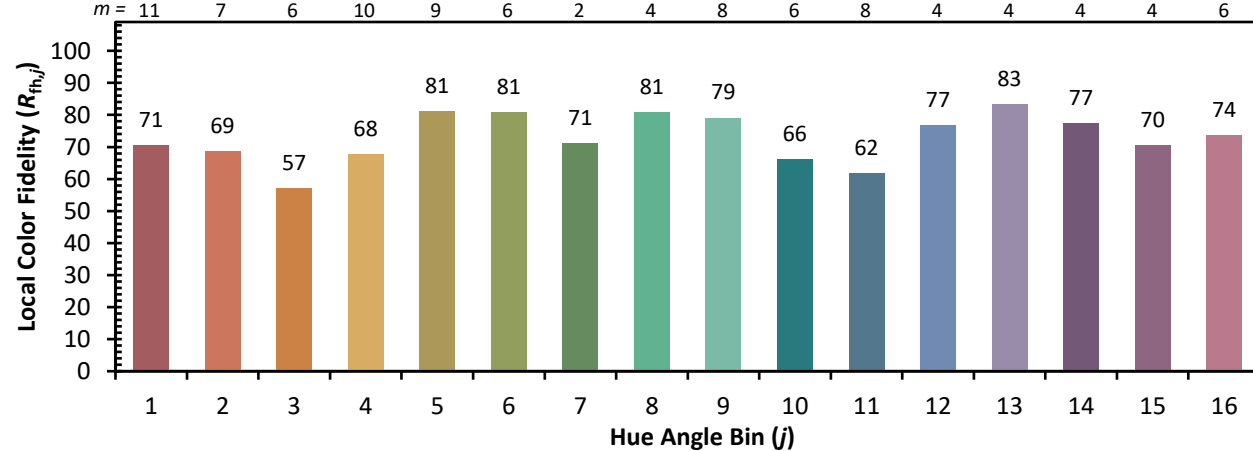
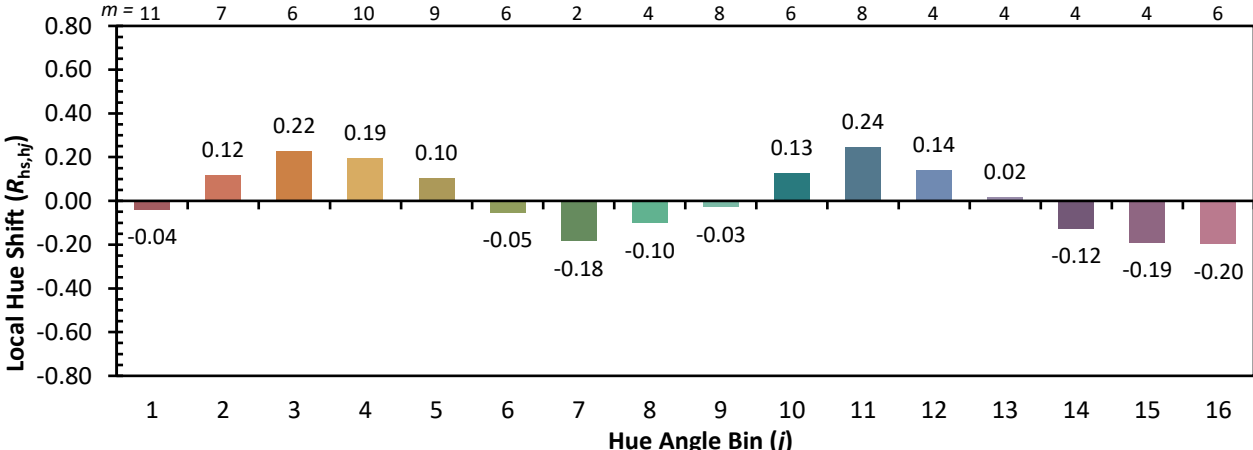
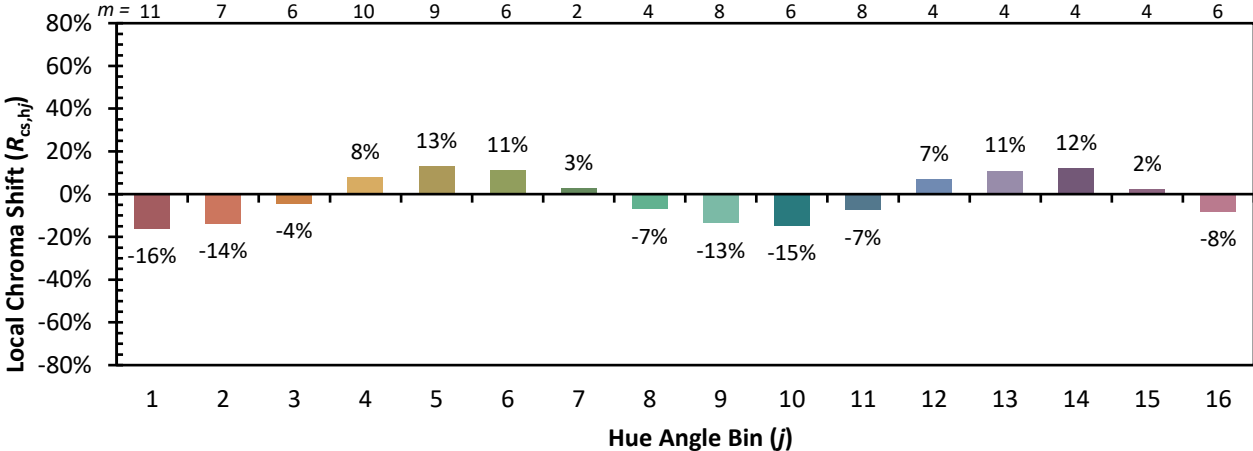


Individual Sample Fidelity Index ($R_{f,i}$)

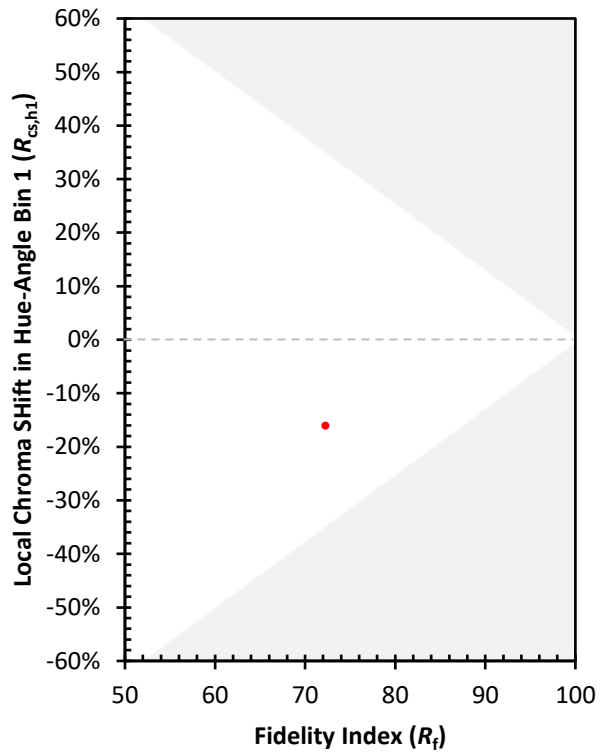
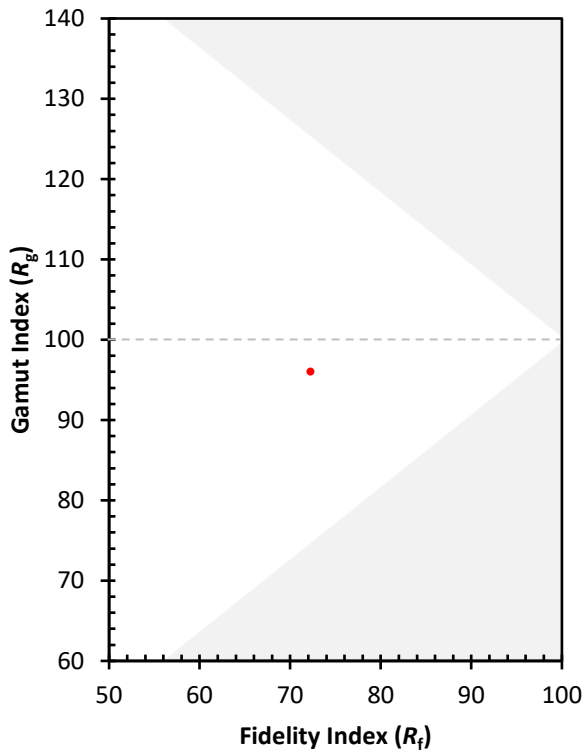
CES01 = 86	CES26 = 58	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 84	CES52 = 84	CES77 = 73
CES03 = 31	CES28 = 81	CES53 = 73	CES78 = 55
CES04 = 71	CES29 = 57	CES54 = 83	CES79 = 82
CES05 = 49	CES30 = 69	CES55 = 82	CES80 = 80
CES06 = 51	CES31 = 61	CES56 = 70	CES81 = 74
CES07 = 41	CES32 = 56	CES57 = 69	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)