

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: P973045

Luminaire Tested: **WP-6984-90W-5000K**

Issue Date: 03/12/2025



Test Information

Test Method: LM-79-08
Report Number: P973045
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 03/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WP-6984-90W-5000K
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @90W-5000K
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

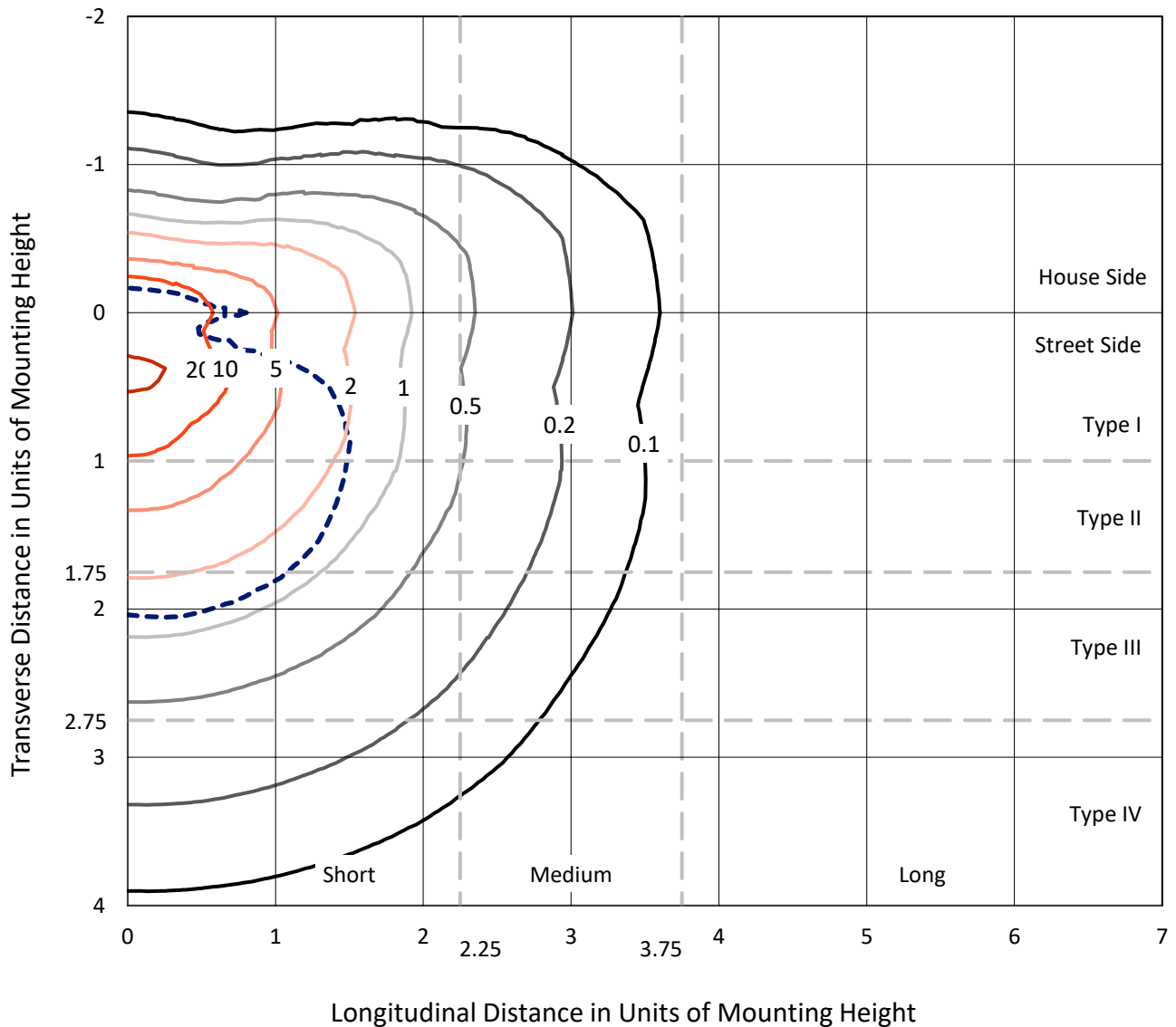
Lumens per Lamp: N/A
Luminaire Lumens: 12538.4 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')
IES Classification: Type III - Short
BUG Rating: B3 - U3 - G3

Input Watts (W): 88.9
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

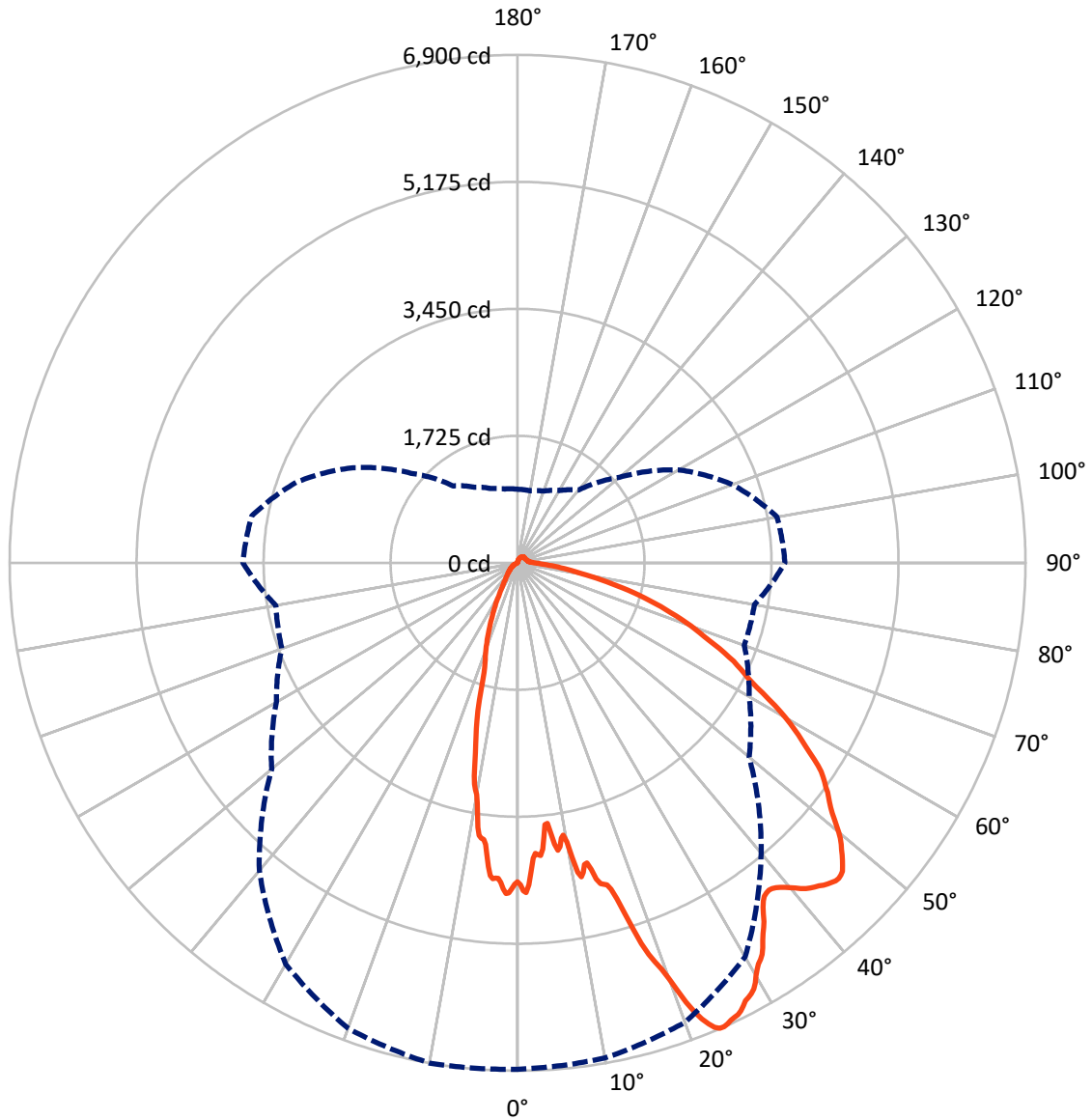
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 23.9 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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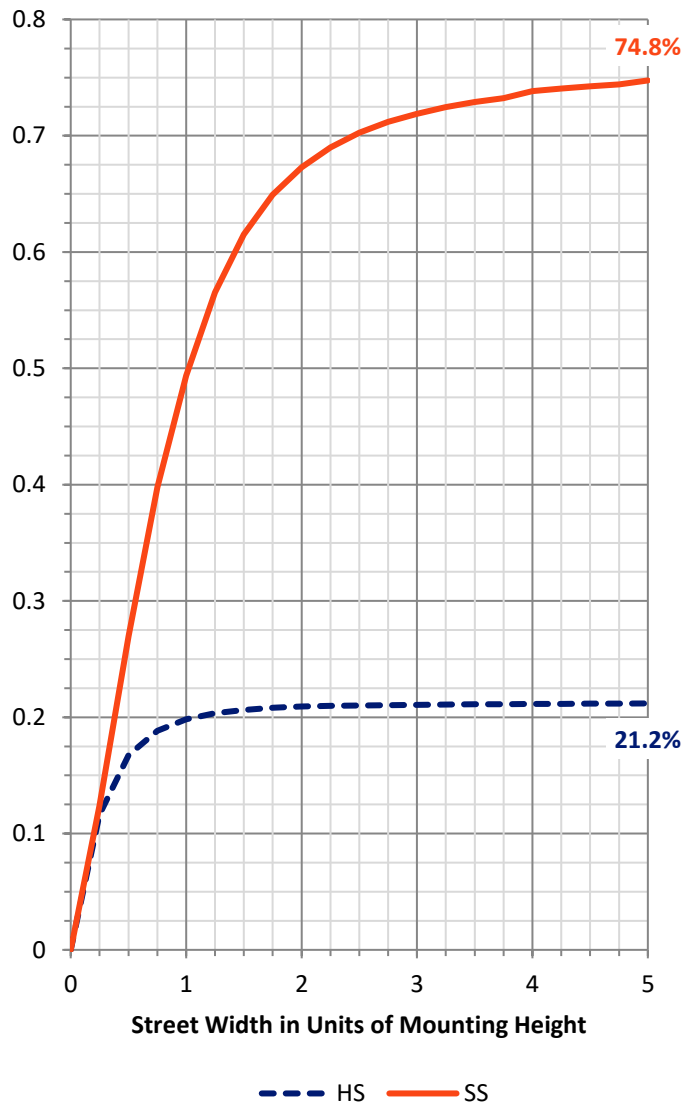
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2687.3	63.7	2751.0
	% Fixture	21.4	0.5	21.9
Street Side	Lumens	9474.8	312.5	9787.3
	% Fixture	75.6	2.5	78.1
Total	Lumens	12162.1	376.2	12538.4
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.6	3.1
10°-20°	1015.7	8.1
20°-30°	1593.1	12.7
30°-40°	1923.4	15.3
40°-50°	2190.9	17.5
50°-60°	2176.1	17.4
60°-70°	1665.8	13.3
70°-80°	928.4	7.4
80°-90°	284.3	2.3
90°-100°	84.6	0.7
100°-110°	68.5	0.5
110°-120°	62.9	0.5
120°-130°	56.7	0.5
130°-140°	49.0	0.4
140°-150°	33.9	0.3
150°-160°	16.3	0.1
160°-170°	3.9	0.0
170°-180°	0.5	0.0
0°-90°	12162.1	97.0
0°-180°	12538.4	100.0

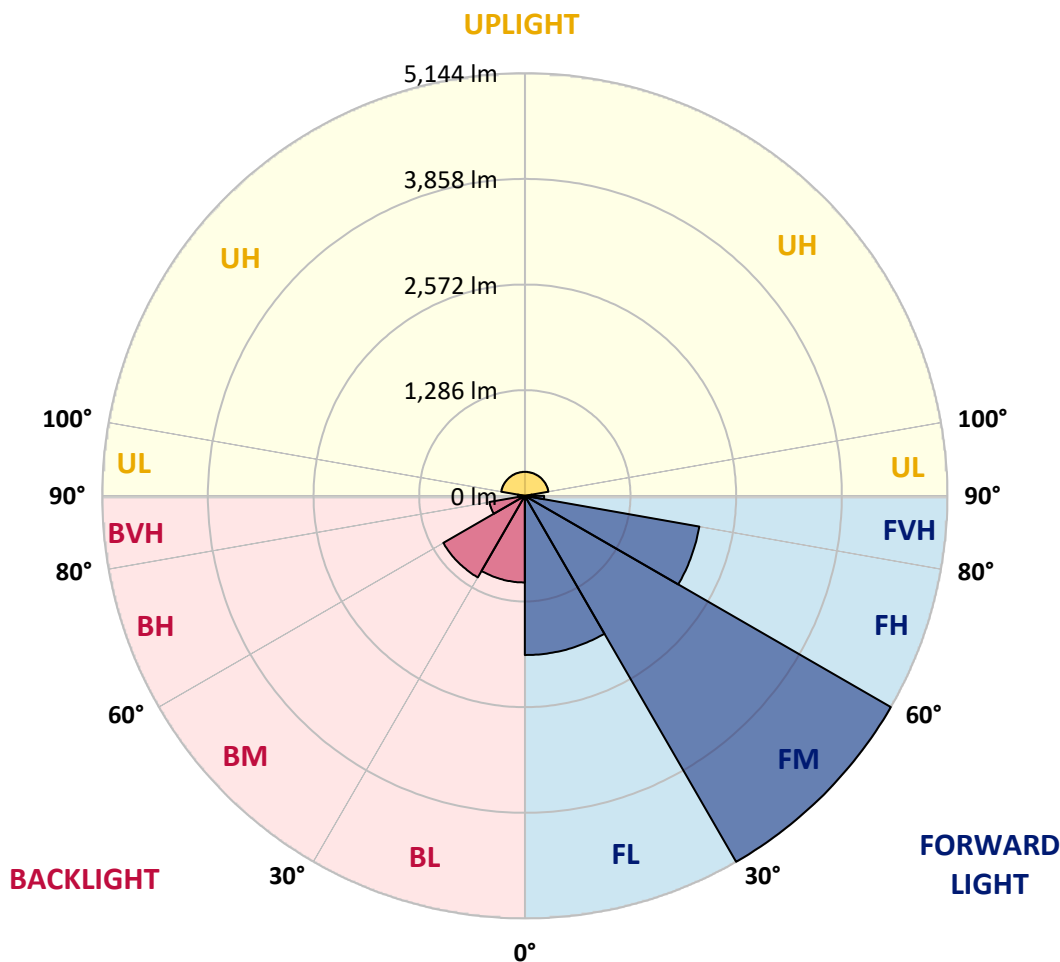


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1938.7	15.5			
FM (30°-60°)	5144.2	41.0			
FH (60°-80°)	2157.3	17.2			G2/5000
FVH (80°-90°)	234.6	1.9			G3/500
BL (0°-30°)	1054.7	8.4	B3/2500		
BM (30°-60°)	1146.2	9.1	B2/2500		
BH (60°-80°)	436.8	3.5	B1/500		G1/500
BVH (80°-90°)	49.7	0.4			G1/100
UL (90°-100°)	84.6	0.7		U3/500	
UH (100°-180°)	291.7	2.3		U3/500	

BUG Rating: B3-U3-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5
0.5°	4443.0	4441.2	4441.0	4442.2	4440.5	4431.3	4420.5	4407.8	4393.4	4379.2	4365.9
1°	4399.2	4403.5	4420.7	4438.5	4458.1	4463.3	4454.8	4437.1	4402.6	4374.8	4351.8
1.5°	4241.9	4254.6	4285.0	4336.2	4391.6	4436.1	4461.3	4452.3	4408.7	4365.7	4332.2
2°	4044.0	4057.8	4099.8	4171.0	4260.5	4351.3	4435.9	4458.6	4422.6	4356.9	4314.1
2.5°	3928.4	3936.3	3955.3	4007.6	4103.4	4235.2	4371.3	4445.2	4430.5	4353.6	4301.5
3°	3925.4	3918.4	3915.3	3924.3	3977.1	4105.8	4281.0	4415.9	4425.6	4342.2	4286.6
3.5°	3954.9	3947.2	3938.0	3916.7	3919.5	3991.8	4177.9	4367.1	4415.5	4328.8	4269.3
4°	3913.8	3926.1	3940.5	3935.9	3908.5	3925.1	4075.5	4306.9	4404.0	4322.6	4261.4
4.5°	3756.9	3791.0	3855.5	3926.1	3919.3	3897.4	3985.5	4240.4	4390.5	4305.6	4251.5
5°	3575.5	3602.2	3683.6	3824.1	3917.5	3890.7	3916.3	4162.0	4367.1	4289.6	4248.4
5.5°	3512.6	3511.7	3532.6	3661.8	3845.0	3901.2	3877.0	4087.0	4343.7	4273.0	4239.6
6°	3602.8	3568.6	3512.1	3527.8	3713.6	3889.9	3850.6	4011.2	4318.0	4256.0	4238.2
6.5°	3774.3	3727.1	3612.0	3504.1	3570.2	3832.6	3845.4	3941.1	4292.7	4240.3	4231.4
7°	3897.9	3876.6	3771.9	3583.9	3489.4	3732.7	3847.9	3882.4	4254.2	4223.6	4226.2
7.5°	3882.0	3893.4	3889.4	3724.2	3493.7	3602.3	3847.2	3836.8	4210.1	4200.1	4214.6
8°	3765.2	3785.5	3859.4	3849.8	3569.5	3496.5	3820.7	3799.9	4173.1	4179.2	4199.1
8.5°	3699.6	3689.4	3743.0	3868.2	3704.3	3437.7	3765.2	3774.5	4128.9	4152.7	4188.6
9°	3774.6	3713.2	3660.6	3783.4	3812.7	3436.0	3679.6	3754.2	4078.9	4136.4	4175.1
9.5°	3985.1	3904.4	3709.5	3675.7	3845.4	3503.7	3576.3	3744.7	4028.1	4124.7	4158.5
10°	4212.4	4134.2	3887.5	3639.6	3782.9	3613.5	3473.3	3739.4	3981.8	4108.3	4147.8
10.5°	4314.6	4280.7	4120.6	3728.5	3675.1	3711.2	3400.9	3735.4	3933.8	4097.3	4134.1
11°	4267.1	4272.7	4259.4	3927.1	3602.5	3769.3	3363.1	3725.8	3890.4	4091.5	4122.7
11.5°	4160.1	4173.1	4246.3	4125.9	3608.4	3758.7	3373.2	3707.4	3851.7	4081.4	4114.4
12°	4138.2	4105.8	4145.8	4232.4	3724.1	3694.8	3422.0	3674.4	3815.7	4072.5	4103.8
12.5°	4243.7	4170.2	4066.8	4209.7	3901.7	3605.7	3491.1	3618.9	3771.8	4064.7	4093.4
13°	4390.4	4314.6	4111.7	4105.1	4070.9	3542.9	3580.3	3563.3	3731.7	4050.7	4078.5
13.5°	4464.5	4413.1	4240.6	4017.6	4162.2	3537.2	3655.4	3492.0	3693.3	4031.5	4060.5
14°	4475.3	4432.0	4346.0	4041.9	4144.0	3604.5	3698.9	3424.8	3655.4	4009.0	4039.3
14.5°	4484.8	4415.0	4372.8	4155.2	4054.8	3747.0	3697.8	3360.6	3621.2	3988.3	4018.8
15°	4545.8	4440.0	4345.8	4254.3	3955.9	3903.8	3660.5	3305.4	3588.3	3972.9	3994.5
15.5°	4709.4	4563.4	4338.7	4292.8	3929.3	4036.2	3599.9	3266.3	3558.2	3951.7	3973.9
16°	4931.5	4761.7	4417.7	4264.7	3999.9	4099.7	3525.7	3245.0	3532.9	3932.5	3951.5
16.5°	5172.5	5002.6	4581.0	4227.6	4110.3	4088.4	3467.1	3246.7	3513.8	3912.1	3927.2
17°	5380.1	5223.2	4791.7	4250.7	4186.1	4018.4	3444.0	3267.3	3497.6	3892.3	3905.8
17.5°	5539.2	5379.6	5002.0	4351.7	4198.1	3928.1	3465.3	3297.4	3483.6	3874.0	3884.4
18°	5662.2	5516.0	5179.3	4521.8	4158.7	3858.2	3528.9	3342.2	3469.7	3852.5	3862.5
18.5°	5787.3	5633.5	5311.4	4713.7	4124.8	3854.8	3638.9	3395.6	3454.0	3832.9	3841.7
19°	5946.4	5761.1	5421.9	4885.5	4131.9	3914.4	3748.3	3438.9	3444.9	3811.3	3821.4
19.5°	6147.6	5933.2	5523.9	5029.0	4209.4	3998.4	3852.7	3478.8	3428.8	3788.8	3800.9
20°	6355.7	6143.6	5647.4	5141.7	4335.5	4050.2	3916.6	3496.0	3416.1	3767.3	3775.6
20.5°	6528.6	6351.3	5828.6	5255.4	4488.5	4054.2	3932.6	3496.3	3400.3	3744.1	3750.3
21°	6660.9	6506.5	6023.5	5360.1	4643.0	4019.1	3895.6	3479.5	3380.1	3725.2	3723.4
21.5°	6761.1	6640.1	6222.6	5472.7	4770.4	3973.4	3827.5	3448.5	3358.8	3704.8	3696.8
22°	6835.9	6744.8	6395.5	5623.7	4875.5	3941.6	3744.9	3401.6	3336.6	3685.4	3668.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	6872.8	6795.7	6522.4	5804.9	4970.4	3955.1	3671.2	3352.4	3315.3	3666.1	3640.2
23°	6886.4	6821.7	6604.4	5997.8	5058.0	4013.1	3627.2	3311.3	3291.2	3649.1	3611.0
23.5°	6878.8	6829.9	6643.5	6180.0	5147.2	4105.3	3632.3	3277.3	3266.5	3631.5	3580.2
24°	6855.3	6826.5	6681.2	6318.4	5236.5	4215.4	3670.2	3260.4	3239.2	3614.9	3552.2
24.5°	6832.3	6805.1	6706.8	6404.1	5345.2	4329.0	3725.7	3260.6	3209.3	3593.8	3524.0
25°	6797.4	6763.7	6707.9	6438.7	5488.9	4435.1	3769.3	3276.7	3183.2	3578.1	3496.3
25.5°	6760.6	6719.2	6676.5	6457.3	5654.8	4523.6	3788.7	3315.5	3152.4	3559.7	3470.6
26°	6718.4	6683.6	6616.5	6495.5	5816.8	4597.0	3775.4	3364.6	3128.3	3542.4	3447.2
26.5°	6690.1	6657.0	6561.8	6518.4	5955.4	4661.4	3742.6	3427.4	3105.8	3528.5	3422.5
27°	6668.5	6626.1	6532.3	6511.3	6043.5	4724.2	3704.3	3488.2	3089.0	3515.7	3398.7
27.5°	6619.9	6589.7	6504.2	6459.0	6064.8	4784.4	3679.1	3532.2	3074.1	3504.6	3377.3
28°	6561.7	6542.4	6483.7	6389.7	6059.2	4843.8	3675.4	3560.3	3060.7	3493.4	3355.5
28.5°	6494.7	6489.1	6451.0	6315.1	6059.9	4920.6	3695.6	3569.9	3051.8	3483.1	3337.5
29°	6431.4	6427.5	6408.1	6276.6	6096.8	5017.3	3739.4	3561.5	3043.9	3471.7	3320.5
29.5°	6366.3	6369.2	6359.4	6253.3	6132.0	5133.6	3799.9	3537.8	3039.5	3462.3	3305.7
30°	6315.3	6315.0	6297.1	6227.7	6123.5	5247.8	3864.0	3506.6	3041.0	3453.1	3289.8
30.5°	6261.6	6277.0	6246.2	6195.5	6066.9	5350.5	3929.5	3468.5	3043.8	3445.8	3275.3
31°	6203.5	6218.9	6209.1	6147.1	5973.6	5424.3	3995.0	3432.1	3049.9	3439.3	3261.0
31.5°	6140.0	6148.7	6180.1	6098.5	5896.8	5455.2	4048.3	3405.6	3055.6	3431.9	3248.0
32°	6071.4	6083.5	6127.6	6040.4	5852.3	5459.5	4089.0	3391.9	3063.4	3425.5	3235.6
32.5°	6017.6	6039.0	6045.8	5983.5	5834.0	5455.6	4126.2	3392.3	3071.3	3419.3	3225.3
33°	5956.4	6006.5	5973.7	5946.0	5809.6	5459.1	4156.8	3405.4	3082.9	3413.3	3213.7
33.5°	5870.1	5944.6	5927.4	5917.2	5772.0	5476.0	4191.2	3426.3	3093.0	3408.5	3199.8
34°	5766.6	5840.0	5907.8	5875.5	5729.5	5496.2	4233.6	3449.5	3102.3	3404.7	3183.8
34.5°	5682.9	5738.1	5868.3	5804.2	5690.4	5497.7	4274.1	3466.2	3107.8	3402.0	3169.5
35°	5626.8	5656.0	5785.9	5719.9	5645.2	5470.0	4317.2	3471.1	3111.5	3397.3	3157.3
35.5°	5592.8	5599.2	5672.5	5645.4	5598.0	5417.8	4369.9	3470.4	3113.3	3393.5	3145.8
36°	5575.5	5567.1	5580.7	5615.7	5543.5	5361.1	4423.4	3458.0	3108.8	3388.5	3132.4
36.5°	5579.6	5567.0	5519.9	5598.3	5498.7	5318.6	4479.0	3441.4	3103.4	3385.2	3120.3
37°	5600.5	5581.3	5481.1	5537.7	5471.7	5286.1	4528.4	3427.2	3096.2	3378.4	3108.2
37.5°	5625.1	5606.7	5460.7	5442.9	5438.4	5259.5	4568.8	3415.8	3086.8	3371.7	3096.8
38°	5662.3	5643.3	5454.2	5339.9	5397.2	5231.5	4599.4	3407.2	3076.2	3361.3	3081.5
38.5°	5700.0	5684.6	5460.8	5271.2	5333.2	5197.8	4618.4	3405.6	3063.5	3349.9	3067.8
39°	5744.7	5732.7	5472.8	5225.0	5273.1	5156.1	4623.4	3409.0	3051.6	3335.7	3052.0
39.5°	5788.4	5779.5	5501.2	5188.2	5234.4	5119.7	4623.9	3415.7	3037.1	3324.0	3035.2
40°	5831.9	5819.8	5536.4	5157.9	5218.0	5088.0	4623.9	3427.6	3025.0	3312.4	3020.0
40.5°	5873.5	5856.8	5570.1	5134.4	5193.6	5058.6	4624.2	3436.9	3015.9	3303.8	3007.1
41°	5909.1	5894.2	5601.3	5123.9	5144.8	5027.2	4621.6	3445.2	3007.6	3296.7	2995.6
41.5°	5943.9	5924.3	5630.7	5117.7	5081.5	4996.3	4615.3	3454.2	3003.7	3289.8	2984.5
42°	5963.6	5959.6	5660.6	5121.6	5023.2	4968.6	4597.1	3464.0	3000.0	3285.3	2975.7
42.5°	5997.3	5983.0	5687.9	5131.4	4980.0	4942.2	4576.4	3470.9	2998.9	3278.2	2966.1
43°	6034.0	6016.0	5724.6	5143.2	4947.0	4914.7	4547.2	3479.5	2999.1	3273.8	2957.5
43.5°	6061.9	6041.6	5754.2	5154.0	4918.9	4884.2	4514.1	3485.1	3001.6	3271.4	2952.5
44°	6081.7	6061.5	5780.7	5159.3	4893.0	4846.2	4484.4	3486.4	3005.6	3268.0	2946.8
44.5°	6077.1	6079.2	5796.6	5172.0	4874.6	4809.8	4458.1	3488.5	3012.1	3264.0	2944.7



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CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	6068.6	6069.9	5809.5	5179.5	4860.0	4781.4	4438.9	3487.4	3019.5	3259.7	2942.5
45.5°	6032.2	6065.9	5811.5	5182.5	4844.4	4752.9	4418.9	3489.6	3021.9	3256.3	2934.7
46°	5994.7	6033.5	5803.8	5183.9	4833.9	4729.8	4400.8	3494.8	3022.4	3248.4	2928.6
46.5°	5928.8	5991.8	5794.2	5179.6	4825.7	4704.6	4384.7	3500.4	3020.6	3240.1	2919.8
47°	5872.8	5928.4	5764.2	5173.9	4818.8	4671.0	4369.3	3505.0	3011.8	3231.7	2910.1
47.5°	5809.6	5868.5	5730.8	5158.3	4812.0	4629.7	4352.3	3511.2	3001.5	3221.2	2901.6
48°	5767.5	5829.8	5676.0	5134.0	4799.1	4591.3	4332.7	3513.2	2987.6	3209.8	2893.2
48.5°	5716.0	5792.6	5629.3	5110.8	4779.8	4554.0	4310.6	3511.5	2972.2	3199.2	2881.1
49°	5648.2	5742.3	5571.4	5086.5	4758.9	4516.8	4285.3	3513.8	2957.1	3188.0	2866.9
49.5°	5569.9	5679.6	5531.1	5056.8	4739.7	4479.1	4260.7	3511.2	2936.1	3174.6	2855.6
50°	5492.3	5593.5	5488.2	5022.9	4713.3	4446.0	4237.9	3511.8	2915.1	3159.5	2841.3
50.5°	5431.0	5517.1	5436.5	4982.6	4688.5	4411.5	4217.4	3511.6	2892.3	3145.4	2827.6
51°	5379.1	5438.6	5366.1	4942.2	4658.6	4372.0	4191.9	3504.3	2866.9	3128.2	2812.5
51.5°	5334.2	5378.2	5302.6	4895.8	4623.1	4331.6	4164.5	3496.8	2839.1	3109.7	2796.5
52°	5288.0	5338.7	5236.4	4852.2	4582.9	4292.1	4135.1	3487.3	2812.0	3089.0	2775.9
52.5°	5246.7	5302.4	5168.9	4807.6	4540.2	4250.9	4105.8	3473.8	2783.0	3072.2	2753.6
53°	5189.6	5258.7	5119.1	4769.4	4496.8	4204.3	4073.6	3457.2	2751.8	3048.7	2731.1
53.5°	5132.4	5193.7	5081.8	4732.3	4450.4	4156.8	4037.2	3440.7	2721.9	3021.5	2708.4
54°	5080.7	5133.2	5055.4	4681.1	4408.4	4111.8	4000.1	3420.0	2690.1	2994.2	2688.3
54.5°	5022.6	5068.8	5010.9	4636.6	4368.3	4064.8	3956.3	3397.6	2658.3	2956.7	2664.1
55°	4948.4	4997.5	4940.8	4596.5	4324.2	4020.9	3909.2	3369.6	2621.2	2918.7	2633.3
55.5°	4858.1	4910.8	4866.5	4557.6	4281.4	3974.2	3861.8	3329.7	2585.0	2882.4	2602.9
56°	4764.3	4820.7	4801.1	4519.8	4231.4	3928.5	3814.2	3284.5	2550.6	2844.3	2573.0
56.5°	4659.5	4719.3	4728.1	4477.8	4187.3	3882.6	3765.0	3236.3	2514.3	2803.8	2543.9
57°	4575.4	4620.3	4639.4	4423.4	4147.4	3841.2	3708.6	3184.9	2476.2	2762.5	2518.5
57.5°	4498.2	4541.9	4551.0	4359.8	4111.2	3798.0	3650.8	3138.3	2438.9	2718.7	2491.5
58°	4414.7	4476.1	4460.3	4288.7	4073.3	3757.9	3590.3	3092.8	2401.5	2675.9	2464.1
58.5°	4334.1	4406.4	4375.1	4213.3	4030.9	3716.6	3529.1	3045.3	2361.4	2632.0	2440.4
59°	4242.5	4329.1	4294.4	4139.0	3972.0	3671.8	3470.4	2990.7	2322.8	2590.9	2417.1
59.5°	4138.5	4237.2	4218.1	4063.9	3904.5	3625.3	3413.9	2937.3	2286.3	2545.5	2384.6
60°	4017.5	4131.4	4141.4	3996.9	3835.8	3575.6	3354.1	2884.3	2247.0	2497.9	2353.7
60.5°	3900.5	4011.6	4052.4	3928.5	3765.3	3518.2	3293.9	2830.1	2207.5	2451.9	2317.0
61°	3784.8	3895.2	3949.7	3862.1	3699.1	3460.3	3231.8	2774.0	2166.4	2405.4	2280.0
61.5°	3676.7	3780.8	3844.6	3789.1	3630.5	3403.4	3173.6	2719.7	2127.3	2363.0	2250.8
62°	3584.1	3682.2	3739.0	3714.2	3555.9	3342.7	3113.2	2663.5	2089.5	2320.7	2221.7
62.5°	3502.1	3593.5	3635.2	3624.0	3485.8	3269.6	3056.4	2606.2	2051.9	2275.6	2181.6
63°	3443.2	3514.3	3540.0	3535.8	3420.7	3200.0	3000.3	2550.7	2016.5	2229.7	2145.2
63.5°	3388.0	3446.6	3454.0	3448.9	3350.7	3130.1	2945.5	2498.9	1976.8	2185.0	2105.6
64°	3327.4	3389.6	3373.5	3361.6	3275.9	3057.1	2886.5	2446.5	1935.9	2137.8	2066.0
64.5°	3261.7	3331.7	3302.5	3278.2	3199.7	2978.1	2829.9	2397.8	1895.1	2092.6	2023.6
65°	3196.5	3265.0	3245.0	3207.7	3125.7	2901.9	2774.2	2348.0	1851.3	2045.6	1979.9
65.5°	3107.7	3176.6	3177.6	3138.2	3054.0	2824.3	2716.8	2294.3	1809.9	1999.0	1939.5
66°	3007.4	3086.6	3105.7	3071.1	2982.7	2748.0	2654.6	2237.9	1766.8	1956.2	1897.3
66.5°	2911.1	2984.4	3017.8	3007.2	2913.3	2672.5	2582.7	2184.1	1727.0	1912.5	1852.8
67°	2821.3	2882.2	2934.9	2937.2	2845.4	2603.1	2507.1	2130.9	1684.9	1869.1	1805.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2738.2	2793.6	2846.5	2857.5	2774.5	2537.7	2428.9	2076.8	1642.7	1822.5	1766.9
68°	2663.6	2715.8	2754.7	2776.2	2702.8	2469.0	2355.1	2024.3	1601.4	1777.2	1721.8
68.5°	2590.9	2634.0	2662.3	2694.2	2632.4	2405.8	2275.6	1968.8	1560.7	1733.7	1678.0
69°	2523.4	2555.3	2578.1	2611.1	2558.9	2345.1	2198.7	1917.9	1517.5	1689.4	1631.3
69.5°	2448.5	2485.5	2497.0	2525.1	2481.2	2284.2	2121.1	1866.0	1470.8	1640.0	1582.6
70°	2365.1	2403.7	2417.3	2445.5	2402.5	2214.7	2046.6	1813.2	1425.9	1592.4	1541.1
70.5°	2283.2	2323.3	2342.2	2369.2	2325.5	2144.3	1979.2	1760.3	1379.5	1545.2	1490.1
71°	2203.7	2243.1	2264.9	2295.3	2244.3	2075.1	1909.3	1708.4	1335.8	1495.2	1442.6
71.5°	2124.4	2160.3	2182.2	2214.6	2162.0	2001.2	1842.6	1661.3	1294.7	1449.4	1392.3
72°	2053.0	2088.2	2099.6	2134.1	2084.5	1927.9	1777.7	1611.5	1253.4	1403.1	1341.6
72.5°	1981.9	2015.3	2028.2	2055.2	2009.5	1853.3	1711.1	1561.7	1212.1	1357.1	1295.1
73°	1903.9	1944.9	1958.4	1979.3	1931.6	1781.2	1647.4	1516.0	1172.4	1311.0	1248.2
73.5°	1825.3	1867.9	1883.4	1901.1	1857.5	1710.9	1587.7	1466.9	1131.0	1265.6	1200.2
74°	1748.4	1790.6	1804.4	1824.6	1784.7	1640.3	1533.2	1412.7	1087.9	1220.5	1153.4
74.5°	1659.2	1701.0	1726.2	1747.5	1711.1	1572.8	1478.7	1349.5	1047.0	1171.6	1109.3
75°	1572.7	1608.0	1641.5	1670.3	1641.1	1507.8	1425.1	1289.1	1006.4	1126.7	1065.6
75.5°	1487.7	1522.6	1560.2	1593.2	1571.2	1444.5	1368.5	1227.1	959.5	1076.9	1020.1
76°	1402.4	1438.0	1477.4	1511.6	1499.5	1377.8	1310.1	1160.3	912.5	1027.6	975.6
76.5°	1321.3	1355.8	1395.9	1432.4	1428.6	1312.7	1248.9	1093.5	864.5	979.5	934.1
77°	1244.7	1279.0	1321.1	1356.2	1358.2	1250.5	1188.6	1033.9	822.4	933.4	890.9
77.5°	1168.5	1204.1	1245.9	1280.8	1284.1	1189.8	1126.9	975.1	780.9	884.4	848.4
78°	1096.2	1128.4	1174.2	1206.9	1215.6	1126.4	1063.8	920.9	737.6	837.0	803.6
78.5°	1028.8	1059.9	1102.5	1136.2	1146.3	1063.9	1003.9	867.1	698.2	788.3	761.6
79°	963.8	993.8	1029.2	1067.1	1076.0	1004.7	952.2	819.0	659.6	741.4	720.4
79.5°	897.5	927.1	961.7	997.6	1006.2	945.4	901.6	771.2	621.0	696.2	692.4
80°	842.0	867.4	896.9	931.6	940.9	886.4	849.8	727.2	582.4	653.5	651.3
80.5°	787.3	812.9	832.8	866.8	878.4	833.4	802.4	685.3	543.8	610.8	609.4
81°	736.0	756.9	775.5	804.1	818.3	781.4	753.7	643.9	505.2	568.1	567.5
81.5°	691.0	708.0	721.0	746.2	758.7	727.3	703.8	602.5	471.0	525.4	525.6
82°	647.3	663.0	673.1	693.1	701.4	671.9	657.1	561.2	437.6	482.7	484.7
82.5°	603.5	618.1	628.5	648.0	655.4	625.9	610.5	519.8	403.7	444.6	446.0
83°	559.7	573.3	584.0	603.4	609.6	579.9	564.0	480.3	369.1	406.8	410.2
83.5°	516.0	528.5	539.5	558.8	563.8	533.9	517.4	445.0	336.9	370.2	378.2
84°	472.2	483.6	494.9	514.2	518.0	487.9	470.9	410.5	306.5	333.7	345.5
84.5°	435.6	447.2	456.3	469.6	472.2	449.7	431.7	375.3	277.4	298.5	312.3
85°	400.7	412.8	420.4	432.6	435.9	415.2	394.9	343.4	249.5	264.5	280.5
85.5°	370.8	382.2	388.1	399.2	403.7	383.6	359.8	312.4	224.4	233.7	251.4
86°	343.4	353.6	358.7	368.9	373.7	354.9	329.5	283.7	202.0	204.1	224.0
86.5°	318.5	327.8	331.7	340.8	346.0	328.8	301.8	256.1	179.5	175.8	197.1
87°	296.2	305.4	308.1	314.9	320.0	304.8	278.3	230.9	158.8	150.7	172.9
87.5°	277.1	284.6	287.4	292.5	297.0	283.4	256.9	211.2	141.2	128.3	150.5
88°	259.5	264.9	268.1	271.1	275.5	263.7	236.6	192.4	126.8	108.4	130.1
88.5°	244.6	249.2	250.8	253.1	256.4	245.8	220.0	177.5	115.0	91.7	114.4
89°	231.1	234.8	235.5	237.0	238.8	229.9	205.2	164.3	105.3	78.8	101.9
89.5°	219.0	221.8	221.5	221.9	223.0	215.8	192.0	153.7	97.2	68.2	92.1



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 CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	208.7	210.5	209.2	208.8	209.1	203.1	180.5	144.0	90.6	62.6	84.0
90.5°	199.5	201.1	199.1	198.0	197.5	192.4	170.2	136.4	85.6	57.0	77.0
91°	191.4	192.7	189.9	187.8	187.0	182.0	161.2	130.2	81.5	51.3	71.6
91.5°	184.8	186.0	182.3	179.0	177.0	172.0	153.7	124.7	78.0	45.7	69.0
92°	178.8	179.3	174.8	170.5	167.0	163.8	147.3	120.4	75.1	42.7	66.5
92.5°	171.9	172.6	167.2	162.0	159.4	156.9	142.1	116.7	72.9	40.9	64.1
93°	165.5	166.0	160.2	155.2	153.2	150.7	137.3	113.4	71.2	39.7	61.6
93.5°	161.1	161.4	155.4	150.4	147.8	145.2	133.2	110.6	70.3	38.9	59.2
94°	157.9	158.1	151.5	146.0	142.9	140.5	129.6	108.0	69.3	38.5	58.4
94.5°	155.2	155.4	148.4	142.4	138.5	136.4	126.3	105.7	68.4	38.3	57.8
95°	153.2	153.3	146.0	139.1	134.8	132.7	123.2	103.5	67.4	38.2	56.7
95.5°	151.2	151.3	143.7	136.8	131.8	129.5	120.6	101.6	66.5	38.1	56.2
96°	148.9	149.2	141.8	134.5	129.2	126.7	118.2	99.8	65.9	37.8	56.0
96.5°	147.5	147.7	140.2	132.6	126.8	124.1	115.8	98.1	65.5	38.1	55.8
97°	146.5	146.7	139.0	130.9	124.7	121.8	113.6	96.6	65.4	38.4	55.5
97.5°	145.7	145.7	138.1	129.6	123.0	119.4	111.5	95.2	65.4	38.9	55.1
98°	144.7	144.8	137.1	128.4	121.3	117.3	109.4	94.2	65.6	39.3	54.8
98.5°	143.6	143.9	136.3	127.2	119.8	115.5	107.8	93.3	65.8	39.8	54.3
99°	142.9	143.1	135.6	126.1	118.5	113.8	106.2	92.6	66.0	40.3	53.8
99.5°	142.0	142.1	134.7	125.2	117.4	112.3	104.9	92.0	66.2	40.8	53.3
100°	140.8	141.2	133.8	124.5	116.3	110.9	103.8	91.6	66.5	41.3	52.9
100.5°	139.7	140.1	133.1	123.4	115.2	109.8	102.8	91.2	66.8	41.9	52.5
101°	138.6	139.2	131.9	122.2	114.3	108.9	102.0	91.0	67.1	42.5	52.1
101.5°	136.1	137.0	130.2	121.2	113.9	108.2	101.4	90.9	67.4	43.1	51.9
102°	134.0	135.2	129.2	121.0	113.7	107.7	100.9	90.8	67.8	43.7	51.7
102.5°	133.0	134.5	129.2	121.2	113.5	107.2	100.3	90.7	68.3	44.4	51.6
103°	133.4	134.9	129.6	121.2	113.3	106.7	99.7	90.6	68.9	45.1	51.6
103.5°	133.3	135.0	129.5	121.0	113.0	106.3	99.2	90.6	69.5	45.7	51.6
104°	132.8	134.5	129.0	120.6	112.7	105.9	98.8	90.5	70.1	46.5	51.8
104.5°	131.9	133.8	128.7	120.4	112.4	105.5	98.3	90.5	70.7	47.2	51.9
105°	131.1	133.2	128.2	120.1	112.3	105.1	97.9	90.5	71.3	47.9	52.2
105.5°	130.3	132.5	127.8	119.8	112.2	104.9	97.5	90.4	71.9	48.5	52.4
106°	129.5	131.9	127.2	119.6	112.0	104.5	97.2	90.4	72.4	49.2	52.8
106.5°	128.9	131.2	126.8	119.5	111.8	104.2	96.8	90.2	72.9	49.8	53.1
107°	128.4	130.7	126.4	119.2	111.6	103.8	96.4	90.2	73.3	50.5	53.4
107.5°	127.9	130.1	125.8	118.7	111.3	103.5	96.0	90.1	73.8	51.1	53.8
108°	127.3	129.2	125.3	118.3	111.1	103.1	95.7	90.1	74.3	51.7	54.1
108.5°	126.5	128.4	124.7	117.8	110.7	102.7	95.4	90.2	74.9	52.2	54.4
109°	125.6	127.5	123.9	117.3	110.4	102.4	95.2	90.3	75.5	52.8	54.8
109.5°	124.6	126.5	123.1	116.8	110.0	102.1	95.0	90.6	76.1	53.4	55.1
110°	123.4	125.3	122.5	116.2	109.8	101.9	95.0	90.8	76.6	53.9	55.5
110.5°	122.3	124.4	121.7	115.7	109.5	101.6	94.7	91.0	77.2	54.5	55.8
111°	121.2	123.4	120.9	115.1	109.2	101.4	94.6	91.3	77.7	55.1	56.1
111.5°	120.2	122.4	120.1	114.6	108.7	101.2	94.5	91.5	78.2	55.6	56.4
112°	119.2	121.4	119.4	114.2	108.4	101.0	94.5	91.8	78.7	56.2	56.6



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CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	118.1	120.4	118.7	113.6	107.8	100.9	94.5	92.0	79.2	56.7	56.9
113°	117.2	119.6	117.9	113.0	107.5	100.8	94.5	92.3	79.7	57.1	57.2
113.5°	116.4	118.9	117.3	112.3	107.2	100.6	94.5	92.5	80.1	57.5	57.5
114°	115.7	118.2	116.5	111.7	107.0	100.6	94.5	92.7	80.5	57.9	57.7
114.5°	115.0	117.5	115.8	111.2	106.9	100.5	94.5	93.0	80.9	58.3	57.9
115°	114.2	116.7	115.0	110.9	106.6	100.3	94.5	93.1	81.2	58.6	58.1
115.5°	113.5	115.8	114.3	110.6	106.3	100.2	94.5	93.4	81.5	59.0	58.3
116°	112.7	115.1	113.8	110.4	106.2	100.1	94.5	93.5	81.8	59.3	58.5
116.5°	112.1	114.5	113.4	110.2	106.1	100.0	94.5	93.6	82.1	59.5	58.6
117°	111.7	114.0	113.1	109.9	105.9	99.9	94.5	93.7	82.3	59.6	58.7
117.5°	111.3	113.5	112.7	109.7	105.8	99.8	94.5	93.7	82.5	59.7	58.8
118°	111.1	113.1	112.5	109.7	105.6	99.7	94.5	93.7	82.5	59.8	58.8
118.5°	110.9	112.8	112.4	109.6	105.5	99.7	94.4	93.7	82.5	59.7	58.9
119°	110.8	112.6	112.2	109.5	105.3	99.7	94.5	93.7	82.4	59.5	59.0
119.5°	110.8	112.5	112.2	109.4	105.1	99.6	94.5	93.7	82.3	59.3	59.1
120°	110.9	112.5	112.4	109.3	105.0	99.6	94.5	93.7	82.2	59.2	59.2
120.5°	111.1	112.6	112.4	109.2	104.8	99.6	94.6	93.7	82.0	59.0	59.3
121°	111.3	112.6	112.4	109.1	104.8	99.6	94.7	93.7	81.9	58.8	59.3
121.5°	111.4	112.7	112.4	109.1	104.7	99.7	94.9	93.8	81.6	58.6	59.3
122°	111.5	112.8	112.5	109.0	104.7	99.7	95.0	93.8	81.4	58.2	59.3
122.5°	111.7	113.0	112.5	109.1	104.7	99.9	95.0	93.8	81.1	57.9	59.2
123°	111.9	113.1	112.6	109.1	104.7	100.0	95.2	93.9	80.7	57.5	59.2
123.5°	112.1	113.3	112.8	109.0	104.7	100.2	95.4	93.9	80.3	57.2	59.1
124°	112.3	113.4	112.9	108.9	104.7	100.4	95.6	93.9	80.0	56.8	59.0
124.5°	112.6	113.7	113.1	108.8	104.8	100.6	95.8	94.0	79.5	56.5	58.9
125°	112.8	113.9	113.3	108.7	104.8	100.8	96.1	94.1	79.1	56.2	58.8
125.5°	113.1	114.2	113.4	108.7	104.9	101.1	96.4	94.3	78.7	55.8	58.6
126°	113.4	114.4	113.5	108.6	105.1	101.3	96.8	94.5	78.4	55.5	58.5
126.5°	113.7	114.6	113.6	108.5	105.2	101.6	97.2	94.7	78.1	55.2	58.4
127°	113.7	114.8	113.7	108.4	105.4	101.9	97.6	94.9	77.9	55.0	58.4
127.5°	113.8	115.0	113.8	108.3	105.5	102.2	98.0	95.2	77.6	54.9	58.4
128°	113.8	115.1	113.9	108.3	105.7	102.5	98.4	95.4	77.5	54.8	58.5
128.5°	113.8	115.2	113.9	108.2	105.9	102.8	98.9	95.8	77.3	54.7	58.6
129°	113.8	115.2	114.0	108.1	106.1	103.1	99.5	96.1	77.2	54.7	58.7
129.5°	113.8	115.2	114.0	108.0	106.2	103.4	100.0	96.4	77.1	54.8	58.8
130°	113.7	115.2	114.1	107.9	106.3	103.6	100.5	96.7	77.1	54.9	59.0
130.5°	113.6	115.2	114.1	107.8	106.4	103.9	101.1	97.1	77.1	55.0	59.2
131°	113.5	115.1	114.1	107.7	106.5	104.1	101.6	97.5	77.1	55.2	59.4
131.5°	113.3	115.0	114.1	107.5	106.6	104.3	102.2	97.9	77.1	55.4	59.6
132°	113.2	114.9	114.0	107.3	106.6	104.5	102.8	98.2	77.2	55.6	59.8
132.5°	112.9	114.8	113.9	107.1	106.5	104.6	103.2	98.5	77.2	55.8	59.9
133°	112.5	114.5	113.7	106.9	106.3	104.7	103.7	98.8	77.2	56.0	60.0
133.5°	112.0	114.1	113.4	106.6	106.0	104.8	104.1	99.1	77.3	56.2	60.2
134°	111.4	113.8	113.1	106.2	105.7	104.8	104.4	99.3	77.3	56.4	60.3
134.5°	110.7	113.3	112.7	105.9	105.3	104.7	104.6	99.5	77.3	56.6	60.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	110.0	112.9	112.4	105.5	104.8	104.7	104.8	99.6	77.3	56.8	60.5
135.5°	109.1	112.3	111.9	105.2	104.3	104.7	104.9	99.7	77.2	57.0	60.5
136°	108.4	111.8	111.4	104.8	103.7	104.5	105.0	99.7	77.1	57.1	60.6
136.5°	107.4	111.1	110.8	104.5	103.1	104.4	104.9	99.7	77.0	57.2	60.6
137°	106.4	110.3	110.2	104.0	102.5	104.1	104.8	99.6	76.8	57.3	60.6
137.5°	105.4	109.4	109.4	103.5	101.7	103.8	104.6	99.5	76.6	57.4	60.5
138°	104.2	108.5	108.8	102.9	100.9	103.4	104.4	99.3	76.4	57.5	60.5
138.5°	103.1	107.6	108.1	101.6	100.1	102.8	104.0	98.9	76.1	57.6	60.3
139°	102.0	106.7	107.3	101.0	99.3	102.3	103.5	98.5	75.8	57.6	60.1
139.5°	101.2	105.8	106.3	100.5	98.5	101.6	103.0	98.1	75.4	57.5	59.9
140°	100.1	104.8	105.3	99.9	97.7	100.9	102.4	97.5	75.0	57.4	59.5
140.5°	99.2	103.6	103.9	99.4	97.0	100.1	101.6	96.8	74.4	57.3	59.2
141°	98.0	102.3	102.2	98.9	96.3	99.2	100.7	96.1	73.8	57.1	58.7
141.5°	96.6	101.0	101.2	98.3	95.5	98.2	99.7	95.1	73.1	56.9	58.2
142°	95.2	99.1	100.3	97.6	94.7	97.1	98.8	94.1	72.4	56.6	57.7
142.5°	92.2	97.8	99.4	96.9	93.8	96.0	97.6	93.0	71.6	56.2	57.1
143°	91.3	96.8	98.4	96.1	93.0	94.8	96.4	91.9	70.7	55.8	56.4
143.5°	90.7	95.8	97.5	95.4	92.2	93.5	95.1	90.6	69.7	55.3	55.7
144°	89.9	94.8	96.6	94.5	91.4	92.2	93.8	89.2	68.7	54.7	55.0
144.5°	89.2	93.7	95.6	93.6	90.5	90.9	92.4	87.8	67.6	54.1	54.2
145°	88.5	92.6	94.5	92.7	89.6	89.6	90.9	86.2	66.5	53.4	53.3
145.5°	87.7	91.6	93.4	91.7	88.8	88.2	89.4	84.6	65.2	52.7	52.4
146°	86.9	90.4	92.3	90.6	87.7	86.8	87.8	82.9	64.0	51.9	51.4
146.5°	86.0	89.3	91.2	89.4	86.6	85.4	86.1	81.1	62.6	51.1	50.5
147°	85.1	88.1	90.1	88.2	85.4	83.9	84.4	79.3	61.2	50.2	49.4
147.5°	84.2	86.9	88.9	87.0	84.3	82.6	82.7	77.3	59.8	49.3	48.3
148°	83.3	85.6	87.6	85.6	82.9	81.1	80.9	75.4	58.3	48.2	47.2
148.5°	82.3	84.3	86.3	84.3	81.5	79.7	79.2	73.3	56.8	47.2	46.1
149°	81.3	83.0	85.0	82.9	80.3	78.2	77.2	71.3	55.2	46.2	44.9
149.5°	80.2	81.7	83.7	81.4	78.8	76.7	75.3	69.2	53.6	45.0	43.7
150°	79.2	80.2	82.2	79.9	77.4	75.1	73.2	67.2	52.0	43.9	42.5
150.5°	78.1	78.8	80.8	78.4	75.8	73.5	71.3	65.2	50.3	42.7	41.2
151°	77.0	77.4	79.3	76.9	74.3	71.9	69.3	63.2	48.7	41.5	40.0
151.5°	75.7	75.9	77.5	75.3	72.7	71.0	67.3	61.1	47.0	40.3	38.8
152°	74.4	74.4	75.9	73.7	71.2	69.3	65.4	58.9	45.3	39.1	37.5
152.5°	73.1	72.8	74.2	72.1	69.6	67.6	63.4	56.6	43.7	37.8	36.3
153°	71.6	71.2	72.4	70.1	68.0	65.9	61.4	54.4	42.0	36.6	35.0
153.5°	71.1	69.8	70.9	68.7	66.4	64.1	59.2	52.2	40.4	35.3	33.7
154°	69.7	68.4	69.3	67.3	64.8	62.3	56.8	50.0	38.8	34.1	32.5
154.5°	68.3	67.0	67.7	66.0	63.3	60.5	54.6	47.8	37.1	32.8	31.2
155°	67.0	65.6	66.1	64.6	61.5	58.6	52.3	45.7	35.5	31.6	30.0
155.5°	65.6	64.2	64.6	62.9	59.6	56.4	50.0	43.6	34.0	30.3	28.8
156°	64.1	62.7	63.0	61.1	57.9	54.0	47.7	41.5	32.5	29.1	27.6
156.5°	62.7	61.1	61.1	59.2	56.1	51.6	45.4	39.4	31.0	27.9	26.4
157°	61.2	59.5	59.4	57.4	54.4	49.3	43.2	37.4	29.5	26.7	25.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	59.7	57.9	57.5	55.5	52.5	46.9	40.9	35.5	28.0	25.5	24.1
158°	58.2	56.3	55.6	53.7	50.8	44.5	38.7	33.6	26.6	24.3	23.0
158.5°	56.5	54.6	53.8	51.9	48.8	42.1	36.4	31.6	25.2	23.2	21.9
159°	54.8	52.9	52.0	50.1	46.5	39.6	34.2	29.8	23.9	22.1	20.8
159.5°	53.1	51.2	50.2	48.2	43.7	37.3	32.0	28.0	22.6	20.9	19.8
160°	51.4	49.6	48.4	46.4	41.0	34.9	30.1	26.3	21.3	19.9	18.8
160.5°	49.8	47.9	46.7	44.5	38.4	32.7	28.2	24.7	20.1	18.8	17.8
161°	48.1	46.3	45.0	42.4	35.8	30.4	26.4	23.0	18.8	17.8	16.8
161.5°	46.5	44.7	43.2	39.5	33.1	28.1	24.6	21.4	17.6	16.7	15.8
162°	44.8	43.1	41.4	36.5	30.6	25.8	22.9	19.9	16.5	15.7	14.9
162.5°	43.0	41.3	38.9	33.6	28.0	23.5	21.2	18.4	15.4	14.7	13.9
163°	41.2	39.4	35.8	30.9	25.6	21.2	19.6	17.0	14.3	13.8	13.1
163.5°	38.2	36.2	32.8	28.2	23.3	18.9	18.0	15.7	13.3	12.9	12.2
164°	34.8	33.1	29.9	25.8	21.1	17.3	16.6	14.5	12.3	12.0	11.4
164.5°	31.5	30.0	27.0	23.4	18.8	15.8	15.1	13.3	11.4	11.2	10.6
165°	28.4	27.0	24.4	21.1	16.6	14.5	13.8	12.2	10.5	10.4	9.9
165.5°	25.4	24.2	21.8	18.9	14.3	13.2	12.6	11.1	9.6	9.7	9.2
166°	22.6	21.7	19.6	16.7	12.1	12.0	11.4	10.1	8.9	9.0	8.6
166.5°	20.0	19.3	17.3	14.5	11.1	10.9	10.3	9.2	8.1	8.3	7.9
167°	17.6	17.0	15.0	12.3	10.4	9.9	9.3	8.3	7.5	7.6	7.4
167.5°	15.2	14.7	12.7	9.9	9.7	8.9	8.3	7.5	6.9	7.0	6.8
168°	12.6	12.3	10.2	9.1	9.0	8.3	7.5	6.8	6.2	6.4	6.3
168.5°	10.0	9.6	8.2	8.4	8.4	7.7	7.0	6.1	5.6	5.8	5.8
169°	7.6	7.7	7.6	7.9	7.9	7.3	6.5	5.5	5.0	5.2	5.2
169.5°	7.2	7.3	7.2	7.3	7.3	6.8	6.0	4.8	4.5	4.8	4.8
170°	6.9	6.9	6.8	6.9	6.9	6.4	5.5	4.6	4.3	4.5	4.7
170.5°	6.5	6.5	6.4	6.6	6.5	5.9	5.3	4.5	4.3	4.5	4.8
171°	6.2	6.1	6.1	6.2	6.1	5.6	5.1	4.4	4.3	4.5	4.8
171.5°	5.9	5.9	5.8	5.8	5.7	5.4	4.9	4.4	4.4	4.6	4.8
172°	5.7	5.6	5.6	5.5	5.4	5.1	4.8	4.4	4.5	4.7	4.9
172.5°	5.4	5.5	5.4	5.3	5.2	5.0	4.7	4.4	4.6	4.8	5.0
173°	5.2	5.3	5.2	5.1	5.0	4.8	4.6	4.4	4.7	4.9	5.1
173.5°	5.1	5.1	5.1	4.9	4.8	4.8	4.6	4.5	4.8	5.0	5.2
174°	4.9	4.9	4.8	4.7	4.7	4.6	4.5	4.6	4.8	5.0	5.3
174.5°	4.8	4.8	4.6	4.6	4.5	4.5	4.5	4.6	4.8	5.0	5.3
175°	4.6	4.6	4.4	4.4	4.4	4.4	4.4	4.6	4.8	5.1	5.3
175.5°	4.5	4.5	4.3	4.3	4.3	4.4	4.4	4.6	4.8	5.1	5.3
176°	4.4	4.3	4.3	4.2	4.2	4.3	4.5	4.7	4.9	5.1	5.3
176.5°	4.3	4.3	4.2	4.1	4.2	4.3	4.5	4.7	4.9	5.1	5.3
177°	4.2	4.2	4.2	4.1	4.2	4.3	4.5	4.7	4.9	5.1	5.3
177.5°	4.3	4.3	4.2	4.1	4.2	4.3	4.4	4.6	4.8	5.0	5.3
178°	4.3	4.3	4.2	4.1	4.2	4.3	4.4	4.6	4.8	5.0	5.2
178.5°	4.3	4.3	4.2	4.2	4.2	4.3	4.4	4.6	4.8	5.0	5.2
179°	4.4	4.4	4.3	4.2	4.2	4.3	4.5	4.6	4.8	4.9	5.1
179.5°	4.5	4.4	4.3	4.3	4.3	4.3	4.5	4.6	4.8	4.9	5.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P973045

CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5
0.5°	4352.9	4342.2	4334.7	4332.4	4334.6	4333.1	4333.2	4304.1	4303.0	4305.6	4311.0
1°	4337.4	4328.6	4333.7	4341.6	4353.6	4362.2	4365.3	4298.3	4296.5	4295.5	4293.9
1.5°	4317.1	4324.5	4351.5	4382.4	4410.4	4426.2	4427.8	4354.0	4348.6	4340.9	4332.4
2°	4314.4	4344.4	4387.5	4429.7	4460.5	4477.2	4486.0	4419.0	4410.8	4401.7	4388.3
2.5°	4313.2	4371.5	4430.0	4468.2	4490.7	4493.4	4493.3	4450.9	4443.4	4441.2	4434.3
3°	4323.0	4396.0	4451.4	4479.9	4474.8	4450.3	4435.2	4425.7	4426.4	4439.3	4445.2
3.5°	4331.5	4416.1	4458.6	4447.8	4404.4	4362.2	4345.4	4335.9	4343.8	4366.2	4415.3
4°	4345.5	4422.2	4437.5	4375.2	4314.4	4294.4	4296.7	4265.2	4263.9	4283.2	4332.1
4.5°	4352.7	4418.1	4390.3	4296.2	4270.4	4276.2	4293.8	4248.1	4242.0	4245.4	4264.7
5°	4357.8	4398.4	4312.9	4245.8	4259.1	4288.1	4303.7	4266.6	4253.1	4241.2	4235.8
5.5°	4352.4	4363.1	4245.7	4226.4	4262.5	4273.6	4263.8	4248.3	4247.5	4247.5	4240.7
6°	4342.9	4309.3	4207.4	4222.4	4238.4	4194.6	4145.1	4157.6	4168.1	4214.2	4244.9
6.5°	4333.3	4248.3	4183.8	4208.4	4163.7	4056.5	3985.8	4008.1	4031.2	4114.2	4203.8
7°	4317.5	4194.7	4173.2	4162.8	4036.0	3901.2	3848.7	3859.4	3880.6	3967.5	4113.1
7.5°	4291.4	4155.6	4151.8	4073.1	3889.4	3789.7	3785.3	3769.0	3768.3	3825.8	3975.8
8°	4253.8	4126.4	4118.9	3959.1	3778.5	3750.5	3775.2	3752.9	3742.8	3741.2	3837.4
8.5°	4220.7	4094.9	4057.3	3832.9	3714.1	3737.5	3739.2	3736.5	3738.2	3723.7	3743.3
9°	4173.6	4070.0	3980.4	3730.6	3693.8	3690.8	3634.5	3647.1	3671.4	3710.5	3719.8
9.5°	4135.2	4043.0	3882.4	3667.4	3668.3	3578.3	3470.9	3503.2	3537.9	3645.9	3716.1
10°	4098.8	4008.9	3781.6	3632.2	3589.7	3419.6	3305.4	3322.3	3364.6	3504.0	3684.8
10.5°	4063.8	3969.4	3694.2	3607.2	3466.5	3263.1	3193.2	3195.4	3213.1	3332.0	3600.5
11°	4039.7	3918.3	3619.9	3558.9	3326.1	3156.4	3134.1	3128.8	3131.1	3187.2	3441.9
11.5°	4014.8	3860.5	3563.9	3471.1	3191.8	3094.3	3064.0	3071.9	3080.6	3112.5	3279.0
12°	3992.9	3799.1	3531.8	3362.4	3094.1	3029.2	2951.7	2968.4	3002.9	3068.4	3159.8
12.5°	3971.3	3729.9	3500.1	3249.2	3037.8	2924.2	2801.6	2820.7	2874.6	3003.0	3097.1
13°	3952.4	3666.0	3456.8	3128.7	2965.6	2782.2	2645.1	2653.4	2709.5	2885.3	3058.9
13.5°	3927.0	3609.7	3399.0	3038.7	2870.8	2632.9	2521.7	2519.9	2561.2	2729.8	3000.3
14°	3895.9	3558.3	3325.3	2974.7	2753.1	2508.0	2421.9	2421.0	2448.4	2572.8	2893.6
14.5°	3863.9	3511.7	3236.9	2904.9	2616.3	2403.2	2320.5	2329.7	2359.8	2456.4	2747.0
15°	3824.0	3472.7	3151.2	2828.6	2492.3	2309.2	2210.7	2215.8	2262.0	2368.8	2589.2
15.5°	3779.8	3435.9	3062.8	2739.5	2388.6	2206.2	2080.0	2078.4	2145.2	2283.5	2462.8
16°	3737.8	3399.4	2983.4	2632.3	2297.0	2088.3	1931.9	1932.1	2001.0	2179.4	2370.2
16.5°	3693.2	3357.7	2921.4	2519.7	2202.2	1953.4	1784.2	1785.6	1848.0	2055.4	2299.3
17°	3651.3	3305.5	2858.2	2421.2	2103.6	1817.6	1661.0	1657.6	1704.6	1899.1	2210.9
17.5°	3611.0	3251.0	2790.5	2322.8	1989.9	1684.1	1559.8	1595.2	1635.9	1751.9	2100.0
18°	3568.3	3194.2	2725.6	2229.8	1857.7	1573.3	1487.2	1532.9	1567.2	1628.2	1968.6
18.5°	3527.2	3125.7	2650.7	2144.2	1738.1	1491.1	1431.6	1470.6	1498.5	1561.9	1829.7
19°	3485.4	3063.7	2565.0	2056.4	1623.4	1427.6	1385.0	1408.2	1429.8	1495.6	1693.3
19.5°	3437.6	2995.5	2476.7	1957.6	1522.1	1375.7	1342.2	1346.0	1361.8	1429.2	1622.6
20°	3392.0	2922.7	2384.5	1859.6	1446.7	1333.5	1300.5	1303.9	1317.8	1363.5	1552.0
20.5°	3349.0	2849.9	2284.0	1748.5	1383.2	1289.7	1255.3	1261.4	1275.5	1322.2	1481.3
21°	3299.5	2789.3	2198.6	1641.8	1333.7	1248.6	1212.3	1216.9	1232.2	1281.2	1410.7
21.5°	3254.9	2724.8	2116.0	1550.1	1291.5	1207.8	1168.8	1172.5	1188.6	1238.3	1341.3
22°	3215.6	2670.1	2035.3	1462.2	1250.9	1164.8	1122.4	1127.5	1144.3	1197.1	1301.3



REPORT NUMBER: P973045

CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	3173.0	2623.8	1967.1	1393.0	1211.3	1122.3	1078.5	1084.0	1100.4	1156.5	1262.4
23°	3139.2	2578.3	1894.1	1338.8	1173.4	1080.8	1036.7	1040.3	1058.6	1114.4	1224.6
23.5°	3104.6	2525.3	1806.5	1289.5	1133.7	1037.1	993.2	999.4	1018.2	1074.6	1187.3
24°	3072.4	2471.3	1725.3	1249.6	1093.5	997.1	951.7	957.2	975.3	1034.1	1149.9
24.5°	3037.5	2407.8	1642.0	1213.3	1056.9	959.4	913.0	917.3	936.1	994.6	1113.3
25°	3003.1	2332.6	1554.0	1176.6	1017.1	918.8	871.8	877.4	897.2	957.2	1076.3
25.5°	2967.9	2259.9	1480.1	1141.1	977.9	879.0	831.9	837.3	857.0	919.4	1039.2
26°	2931.8	2179.7	1417.2	1109.2	943.6	843.5	795.8	799.1	819.2	882.3	1003.5
26.5°	2895.7	2105.5	1354.7	1075.3	907.3	806.4	757.3	762.8	782.7	845.6	969.4
27°	2852.7	2041.7	1307.6	1041.0	870.7	769.9	721.1	725.0	743.8	809.4	933.7
27.5°	2808.3	1980.3	1265.0	1008.7	837.3	734.5	698.1	688.6	707.6	772.9	899.1
28°	2761.9	1924.5	1226.1	976.5	803.3	702.6	662.6	654.7	673.7	739.0	864.4
28.5°	2715.1	1873.6	1192.0	943.1	768.3	671.0	626.5	621.3	639.2	704.6	831.2
29°	2672.5	1823.8	1162.7	912.9	737.5	639.5	590.3	588.4	605.4	671.7	797.8
29.5°	2634.1	1774.5	1131.0	881.6	706.3	607.9	554.2	558.7	574.5	641.1	765.7
30°	2594.0	1725.9	1102.9	849.9	677.0	576.4	525.3	530.2	544.7	610.9	733.9
30.5°	2562.2	1672.2	1075.5	821.5	647.7	544.9	499.5	503.5	517.2	580.9	703.2
31°	2534.7	1619.4	1045.0	792.0	618.4	517.0	473.7	478.4	491.3	553.6	673.3
31.5°	2507.8	1573.7	1017.5	761.8	589.1	490.4	449.5	454.9	465.8	527.6	645.7
32°	2489.7	1525.0	991.0	735.5	559.8	467.4	428.8	433.2	442.8	502.5	619.0
32.5°	2469.2	1481.4	963.5	707.7	534.2	443.8	407.8	413.4	421.3	478.7	593.1
33°	2447.6	1445.7	940.0	682.7	509.5	421.7	388.3	394.6	401.0	456.6	568.2
33.5°	2426.5	1409.7	917.6	657.7	487.3	402.0	371.1	377.4	382.6	435.2	544.5
34°	2403.2	1379.7	892.0	632.7	465.8	383.1	355.1	361.3	364.6	414.7	521.7
34.5°	2375.7	1355.1	869.0	607.7	444.5	364.5	340.0	346.1	348.1	395.2	500.2
35°	2350.9	1332.9	847.7	582.7	425.5	348.6	327.0	332.5	333.4	377.5	479.3
35.5°	2323.2	1313.1	825.0	560.1	407.5	333.5	314.4	319.7	319.9	360.4	457.6
36°	2293.7	1298.1	804.7	537.6	389.0	319.0	302.5	308.0	307.1	344.9	437.8
36.5°	2267.1	1281.8	785.4	518.0	372.4	306.0	291.8	297.1	296.0	330.1	419.2
37°	2239.7	1266.7	764.1	498.0	356.8	293.9	281.5	286.3	285.3	316.7	400.6
37.5°	2214.7	1253.9	745.5	479.1	341.0	282.7	271.4	276.4	275.2	304.2	382.8
38°	2191.6	1238.4	727.8	461.9	327.0	272.5	262.1	266.9	265.8	292.6	366.2
38.5°	2170.8	1224.1	708.5	445.6	313.6	263.0	253.3	257.6	256.7	281.9	350.5
39°	2151.8	1211.8	692.0	429.3	300.6	253.9	244.6	249.3	248.2	272.4	336.4
39.5°	2135.0	1197.7	675.7	414.9	288.7	245.5	236.7	241.0	240.0	262.4	322.1
40°	2116.1	1183.2	659.4	400.1	277.6	237.4	229.1	233.6	232.6	253.4	309.2
40.5°	2096.9	1171.7	643.1	386.2	266.8	229.5	221.3	226.3	225.2	244.9	297.3
41°	2081.0	1157.5	626.8	374.1	257.3	222.4	214.9	219.6	218.4	236.6	285.9
41.5°	2064.0	1143.3	610.6	362.1	248.4	215.5	208.5	213.1	212.0	228.8	275.4
42°	2046.3	1130.9	596.3	349.5	239.2	208.7	202.2	206.9	205.9	221.7	265.9
42.5°	2032.0	1117.2	583.1	339.0	231.1	202.6	196.5	201.0	199.9	214.8	256.7
43°	2015.9	1105.1	568.5	328.7	223.9	196.8	190.7	195.2	194.1	208.4	247.9
43.5°	1998.5	1092.9	554.7	318.0	216.2	190.8	184.9	189.6	188.4	202.1	239.6
44°	1983.9	1080.1	542.0	308.2	209.3	185.3	179.6	184.2	182.9	196.0	231.9
44.5°	1970.0	1067.8	528.4	299.5	203.1	180.0	174.6	179.0	177.6	190.5	224.3



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 CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1954.7	1055.4	515.7	290.4	196.7	174.8	169.5	174.3	172.4	184.7	217.3
45.5°	1941.4	1042.3	504.2	282.2	190.9	169.8	164.9	169.6	167.6	179.1	210.4
46°	1929.0	1031.3	491.2	273.7	185.6	165.1	160.4	165.1	163.4	173.9	204.1
46.5°	1914.5	1021.8	480.1	265.7	180.1	160.6	155.9	161.0	159.3	168.6	197.8
47°	1902.1	1010.5	469.7	258.3	175.0	155.9	151.6	157.0	155.2	164.3	192.1
47.5°	1888.9	1001.2	459.0	251.1	170.2	151.6	147.4	152.9	151.1	160.0	186.5
48°	1873.4	992.6	449.7	243.8	165.4	147.3	143.3	148.8	147.0	155.7	181.3
48.5°	1859.3	981.7	440.4	237.5	160.9	143.2	139.2	144.5	143.0	151.4	175.7
49°	1841.4	970.2	430.6	231.2	156.4	139.1	135.1	140.5	139.1	147.1	170.8
49.5°	1821.4	960.5	422.1	225.1	152.1	135.1	130.9	136.4	135.1	143.1	166.0
50°	1805.0	947.9	413.9	219.6	147.8	131.3	127.0	132.4	131.3	139.0	161.6
50.5°	1788.3	932.8	405.1	214.4	143.8	127.7	123.2	128.5	127.4	135.2	157.3
51°	1768.8	918.1	397.1	209.1	139.5	124.0	119.4	124.6	123.7	131.5	152.9
51.5°	1753.7	903.0	390.2	204.4	135.6	120.3	115.8	120.8	120.1	127.7	148.5
52°	1736.4	887.2	382.4	199.7	131.9	117.0	112.4	117.4	116.7	124.1	144.4
52.5°	1717.2	874.2	376.1	195.0	128.0	113.6	109.2	113.8	113.3	120.3	140.3
53°	1700.2	860.6	369.8	190.5	124.3	110.1	106.0	110.4	110.0	116.7	136.4
53.5°	1678.5	845.2	362.4	186.2	120.8	107.0	103.1	107.0	106.7	113.1	132.7
54°	1655.8	830.2	356.0	181.8	117.3	103.6	100.0	103.9	103.5	109.5	129.1
54.5°	1633.8	815.1	350.0	177.5	113.8	100.5	97.0	100.9	100.5	106.1	125.6
55°	1614.0	801.4	343.4	173.4	110.7	97.6	94.1	97.9	97.5	102.9	122.3
55.5°	1594.9	787.9	337.7	169.3	107.4	94.6	91.3	94.9	94.5	99.5	119.0
56°	1577.3	773.0	332.1	165.3	104.2	91.5	88.4	92.1	91.6	96.1	115.7
56.5°	1560.5	758.7	326.2	161.2	101.2	88.6	85.9	89.4	88.7	92.8	112.4
57°	1543.9	745.0	319.9	157.1	98.0	85.6	83.3	86.8	85.9	89.6	109.1
57.5°	1530.7	732.8	314.2	153.4	94.9	82.9	80.9	84.3	83.4	86.4	105.6
58°	1514.6	720.2	307.0	149.6	91.9	80.2	78.2	81.6	80.8	83.3	102.3
58.5°	1498.9	709.4	300.2	145.6	88.8	77.4	75.2	78.7	77.9	80.3	99.0
59°	1484.7	698.9	293.9	141.7	85.5	74.7	72.0	75.7	75.0	77.6	95.7
59.5°	1470.6	686.6	287.2	138.0	82.5	71.9	68.6	72.6	72.0	74.8	92.2
60°	1458.8	674.4	280.7	134.1	79.5	68.6	65.1	68.8	68.7	71.8	88.9
60.5°	1448.2	662.2	273.9	130.3	76.6	65.3	61.6	64.2	64.6	68.6	85.7
61°	1432.1	649.9	266.6	126.6	73.9	62.0	58.1	60.0	60.2	65.4	82.6
61.5°	1409.0	639.2	260.0	122.7	70.7	58.7	54.6	56.7	56.3	61.7	79.6
62°	1389.1	627.1	254.5	118.9	67.8	55.4	50.5	52.5	53.0	57.7	76.6
62.5°	1370.6	614.0	248.7	115.1	65.0	51.9	44.8	43.7	48.2	53.8	73.4
63°	1353.2	600.1	242.8	111.3	62.2	48.1	33.9	35.0	38.6	50.3	70.0
63.5°	1333.3	584.7	236.5	107.7	59.4	43.0	21.9	26.3	28.9	44.3	66.5
64°	1310.9	568.5	229.2	104.1	56.1	34.0	9.9	17.5	19.3	35.4	63.0
64.5°	1286.8	553.1	222.2	100.4	52.9	22.6	7.7	8.8	9.6	26.5	59.4
65°	1257.9	535.6	214.7	96.8	49.4	11.5	5.9	0.2	0.4	17.7	55.3
65.5°	1231.2	519.1	206.7	93.2	44.2	2.9	4.0	0.2	0.2	8.8	49.7
66°	1202.1	503.1	200.0	89.3	35.8	2.1	2.1	0.2	0.2	0.3	41.1
66.5°	1173.1	484.4	194.4	85.7	26.5	1.5	0.2	0.2	0.2	0.2	31.3
67°	1145.1	468.9	188.7	82.2	18.4	0.8	0.2	0.2	0.2	0.2	22.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	1111.5	453.9	182.5	78.3	14.1	0.2	0.2	0.2	0.2	0.2	19.0
68°	1077.3	436.9	175.9	73.0	13.2	0.2	0.2	0.2	0.2	0.2	18.4
68.5°	1047.2	422.2	168.8	68.2	12.8	0.2	0.2	0.2	0.2	0.2	18.0
69°	1014.7	408.0	162.2	63.4	12.4	0.2	0.2	0.2	0.2	0.2	17.7
69.5°	981.1	393.0	155.7	58.6	12.2	0.2	0.2	0.2	0.2	0.2	17.4
70°	946.9	379.0	148.4	53.8	12.0	0.2	0.2	0.2	0.2	0.2	17.2
70.5°	913.5	365.4	141.7	48.9	11.8	0.2	0.2	0.2	0.2	0.2	16.9
71°	878.0	350.9	134.5	47.6	11.6	0.2	0.2	0.2	0.2	0.2	16.6
71.5°	840.3	335.7	125.4	46.5	11.4	0.2	0.2	0.2	0.2	0.2	16.4
72°	805.1	320.9	116.9	45.5	11.3	0.2	0.2	0.2	0.2	0.2	16.2
72.5°	769.2	304.4	109.8	44.4	11.1	0.2	0.2	0.2	0.2	0.2	15.9
73°	735.5	287.9	104.7	43.5	11.0	0.2	0.2	0.2	0.2	0.2	15.7
73.5°	702.2	274.6	100.8	42.5	10.9	0.2	0.2	0.2	0.2	0.3	15.5
74°	674.8	262.3	97.4	41.7	10.7	0.2	0.2	0.3	0.3	0.3	15.2
74.5°	647.5	251.2	93.7	40.8	10.6	0.2	0.2	0.3	0.3	0.3	14.9
75°	620.2	242.6	90.4	39.9	10.5	0.2	0.2	0.3	0.3	0.3	14.7
75.5°	592.8	234.5	87.3	38.9	10.3	0.2	0.2	0.3	0.3	0.3	14.4
76°	565.5	225.7	84.2	38.0	10.2	0.2	0.2	0.3	0.3	0.3	14.1
76.5°	541.4	217.3	81.3	37.1	10.0	0.2	0.2	0.3	0.3	0.3	13.9
77°	519.1	210.0	78.7	36.1	9.9	0.2	0.2	0.3	0.3	0.3	13.6
77.5°	496.7	201.4	75.9	35.1	9.7	0.3	0.2	0.3	0.3	0.3	13.3
78°	473.9	192.9	73.3	34.1	9.5	0.3	0.2	0.3	0.3	0.3	13.0
78.5°	450.8	183.7	70.4	33.1	9.3	0.3	0.3	0.3	0.3	0.4	12.8
79°	427.4	175.7	68.4	32.2	9.1	0.3	0.3	0.4	0.4	0.4	12.5
79.5°	404.4	168.1	66.4	31.1	8.9	0.3	0.3	0.4	0.4	0.4	12.2
80°	383.8	161.5	64.5	30.2	8.7	0.3	0.3	0.4	0.4	0.4	11.9
80.5°	362.7	154.6	62.5	29.1	8.5	0.3	0.3	0.4	0.4	0.4	11.6
81°	341.7	147.8	60.2	28.1	8.3	0.3	0.3	0.4	0.4	0.4	11.4
81.5°	321.1	140.9	57.9	27.1	8.0	0.3	0.3	0.4	0.4	0.4	11.1
82°	300.3	132.9	55.3	26.0	7.9	0.3	0.3	0.4	0.4	0.5	10.9
82.5°	281.0	124.3	52.7	25.0	7.7	0.3	0.3	0.5	0.5	0.5	10.6
83°	262.2	115.9	50.2	24.0	7.5	0.3	0.3	0.5	0.5	0.5	10.4
83.5°	242.6	108.6	47.6	23.0	7.3	0.3	0.3	0.5	0.5	0.5	10.1
84°	221.9	101.3	45.1	22.0	7.1	0.4	0.4	0.5	0.5	0.5	9.8
84.5°	203.3	93.8	42.6	21.1	6.8	0.4	0.4	0.6	0.6	0.6	9.6
85°	186.8	87.0	40.2	20.2	6.7	0.4	0.4	0.6	0.6	0.6	9.4
85.5°	171.4	80.8	38.0	19.3	6.5	0.4	0.4	0.6	0.6	0.6	9.1
86°	156.5	74.8	36.0	18.5	6.3	0.4	0.4	0.6	0.6	0.6	8.9
86.5°	142.0	69.3	34.1	17.8	6.2	0.4	0.4	0.7	0.7	0.7	8.6
87°	129.0	64.9	32.4	17.1	6.0	0.5	0.5	0.7	0.7	0.7	8.4
87.5°	117.5	60.5	30.7	16.4	5.9	0.5	0.5	0.7	0.7	0.7	8.2
88°	106.6	56.1	29.1	15.7	5.7	0.5	0.5	0.7	0.7	0.8	8.0
88.5°	97.2	51.7	27.7	15.2	5.6	0.5	0.5	0.8	0.8	0.8	7.7
89°	88.6	48.3	26.5	14.6	5.4	0.6	0.6	0.8	0.8	0.8	7.5
89.5°	81.4	45.2	25.3	14.1	5.3	0.6	0.6	0.8	0.8	0.9	7.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	75.2	42.6	24.3	13.6	5.1	0.6	0.6	0.9	0.9	0.9	7.0
90.5°	69.3	40.2	23.3	13.0	4.9	0.6	0.6	0.9	0.9	0.9	6.8
91°	65.8	38.3	22.4	12.5	4.8	0.7	0.7	0.9	1.0	1.0	6.7
91.5°	62.5	36.6	21.5	12.1	4.7	0.7	0.7	1.0	1.0	1.0	6.5
92°	59.1	35.1	20.7	11.8	4.6	0.7	0.7	1.0	1.0	1.0	6.3
92.5°	55.8	33.9	20.1	11.5	4.5	0.7	0.7	1.1	1.1	1.1	6.2
93°	53.7	32.9	19.6	11.2	4.3	0.8	0.8	1.1	1.1	1.1	6.0
93.5°	51.9	32.2	19.2	10.9	4.2	0.8	0.8	1.1	1.1	1.1	5.9
94°	50.5	31.8	18.8	10.6	4.1	0.8	0.8	1.2	1.2	1.2	5.7
94.5°	49.4	31.4	18.5	10.4	4.1	0.8	0.8	1.2	1.2	1.2	5.6
95°	48.7	31.0	18.1	10.2	4.0	0.9	0.9	1.2	1.2	1.2	5.5
95.5°	48.2	30.6	17.7	10.0	3.9	0.9	0.9	1.3	1.3	1.3	5.4
96°	47.7	30.3	17.4	9.8	3.8	0.9	0.9	1.3	1.3	1.3	5.3
96.5°	47.2	29.9	17.1	9.7	3.7	1.0	1.0	1.4	1.4	1.4	5.2
97°	46.6	29.6	16.8	9.5	3.6	1.0	1.0	1.4	1.4	1.4	5.1
97.5°	46.1	29.2	16.5	9.4	3.6	1.0	1.0	1.4	1.4	1.4	5.1
98°	45.4	28.8	16.3	9.2	3.5	1.0	1.1	1.5	1.5	1.5	5.0
98.5°	44.7	28.5	16.0	9.1	3.4	1.1	1.1	1.5	1.5	1.5	4.9
99°	44.0	28.0	15.8	8.9	3.4	1.1	1.1	1.6	1.6	1.5	4.8
99.5°	43.3	27.6	15.5	8.8	3.3	1.1	1.2	1.6	1.6	1.6	4.8
100°	42.6	27.1	15.3	8.7	3.3	1.2	1.2	1.6	1.6	1.6	4.7
100.5°	42.0	26.6	15.1	8.6	3.3	1.2	1.2	1.7	1.7	1.7	4.6
101°	41.4	26.1	14.9	8.5	3.2	1.2	1.3	1.7	1.7	1.7	4.6
101.5°	40.7	25.7	14.8	8.4	3.2	1.3	1.3	1.8	1.8	1.7	4.5
102°	40.2	25.3	14.6	8.3	3.2	1.3	1.3	1.8	1.8	1.8	4.4
102.5°	39.6	24.9	14.5	8.2	3.1	1.3	1.4	1.8	1.8	1.8	4.3
103°	39.2	24.6	14.4	8.2	3.1	1.4	1.4	1.9	1.9	1.9	4.2
103.5°	38.8	24.3	14.3	8.1	3.1	1.4	1.4	1.9	1.9	1.9	4.1
104°	38.5	24.0	14.1	8.0	3.1	1.4	1.5	2.0	2.0	2.0	4.1
104.5°	38.2	23.8	14.0	8.0	3.1	1.5	1.5	2.0	2.0	2.0	4.0
105°	38.1	23.6	13.9	7.9	3.0	1.5	1.5	2.1	2.1	2.1	4.0
105.5°	37.9	23.4	13.7	7.8	3.0	1.5	1.6	2.2	2.1	2.1	4.0
106°	37.9	23.3	13.6	7.7	3.0	1.6	1.6	2.2	2.2	2.2	4.0
106.5°	37.8	23.3	13.5	7.6	3.0	1.6	1.7	2.3	2.3	2.2	4.0
107°	37.8	23.2	13.3	7.5	2.9	1.7	1.7	2.3	2.3	2.3	4.0
107.5°	37.8	23.2	13.2	7.4	2.9	1.7	1.7	2.4	2.4	2.3	4.0
108°	37.8	23.2	13.1	7.3	2.9	1.7	1.8	2.4	2.4	2.4	4.0
108.5°	37.8	23.2	13.0	7.2	2.9	1.8	1.8	2.5	2.4	2.4	4.0
109°	37.9	23.2	13.0	7.1	3.0	1.8	1.9	2.5	2.5	2.4	4.0
109.5°	37.9	23.1	12.9	7.0	3.0	1.9	1.9	2.6	2.5	2.5	4.0
110°	37.9	23.1	12.9	6.9	3.0	1.9	2.0	2.6	2.6	2.5	4.0
110.5°	38.0	23.1	12.9	6.8	3.0	2.0	2.0	2.6	2.6	2.6	4.0
111°	38.0	23.0	12.9	6.8	3.1	2.0	2.0	2.7	2.6	2.6	4.0
111.5°	38.0	23.0	12.9	6.8	3.1	2.0	2.1	2.7	2.7	2.6	4.1
112°	38.1	22.9	13.0	6.7	3.2	2.1	2.1	2.7	2.7	2.7	4.1



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	38.1	22.9	13.0	6.7	3.2	2.2	2.2	2.8	2.7	2.7	4.1
113°	38.2	22.8	13.0	6.7	3.3	2.2	2.3	2.8	2.8	2.7	4.1
113.5°	38.2	22.8	13.0	6.7	3.3	2.3	2.3	2.8	2.8	2.8	4.1
114°	38.2	22.7	13.0	6.7	3.4	2.3	2.4	2.9	2.8	2.8	4.1
114.5°	38.2	22.7	13.0	6.8	3.4	2.4	2.4	2.9	2.9	2.8	4.2
115°	38.2	22.6	12.9	6.9	3.5	2.4	2.5	3.0	2.9	2.9	4.2
115.5°	38.2	22.6	12.9	6.9	3.5	2.5	2.5	3.0	3.0	2.9	4.2
116°	38.3	22.5	12.8	7.1	3.6	2.5	2.6	3.0	3.0	2.9	4.2
116.5°	38.3	22.5	12.8	7.2	3.7	2.6	2.6	3.1	3.0	3.0	4.3
117°	38.4	22.4	12.7	7.3	3.8	2.7	2.7	3.1	3.1	3.0	4.3
117.5°	38.5	22.4	12.7	7.4	3.9	2.7	2.8	3.1	3.1	3.0	4.3
118°	38.6	22.4	12.7	7.5	3.9	2.8	2.8	3.2	3.1	3.1	4.4
118.5°	38.6	22.3	12.7	7.5	4.0	2.9	2.9	3.2	3.2	3.1	4.4
119°	38.7	22.3	12.7	7.6	4.1	2.9	3.0	3.2	3.2	3.2	4.4
119.5°	38.7	22.3	12.7	7.7	4.2	3.0	3.0	3.3	3.2	3.2	4.4
120°	38.8	22.2	12.7	7.8	4.2	3.1	3.1	3.3	3.3	3.2	4.5
120.5°	38.8	22.2	12.7	7.8	4.3	3.2	3.2	3.4	3.3	3.3	4.5
121°	38.9	22.2	12.8	7.9	4.3	3.2	3.3	3.4	3.4	3.3	4.6
121.5°	38.9	22.2	12.8	8.0	4.4	3.3	3.3	3.4	3.4	3.4	4.6
122°	38.9	22.2	12.8	8.1	4.4	3.4	3.4	3.5	3.5	3.4	4.6
122.5°	38.9	22.3	12.9	8.2	4.5	3.4	3.4	3.5	3.5	3.4	4.7
123°	38.9	22.3	13.0	8.2	4.5	3.5	3.5	3.6	3.5	3.5	4.7
123.5°	39.0	22.4	13.0	8.3	4.6	3.5	3.6	3.6	3.6	3.5	4.8
124°	39.0	22.5	13.1	8.3	4.6	3.6	3.6	3.7	3.6	3.6	4.8
124.5°	39.1	22.6	13.2	8.4	4.7	3.7	3.7	3.7	3.7	3.6	4.9
125°	39.1	22.7	13.3	8.4	4.7	3.7	3.8	3.8	3.7	3.7	5.0
125.5°	39.3	22.8	13.4	8.5	4.7	3.8	3.8	3.8	3.8	3.7	5.1
126°	39.4	22.9	13.5	8.5	4.8	3.8	3.9	3.9	3.9	3.8	5.1
126.5°	39.6	23.1	13.6	8.6	4.8	3.9	3.9	4.0	3.9	3.9	5.2
127°	39.8	23.2	13.7	8.6	4.8	3.9	4.0	4.0	4.0	3.9	5.3
127.5°	40.0	23.4	13.8	8.7	4.9	4.0	4.0	4.1	4.1	4.0	5.4
128°	40.3	23.6	13.9	8.7	4.9	4.0	4.1	4.2	4.1	4.1	5.5
128.5°	40.6	23.7	14.0	8.8	5.0	4.1	4.1	4.2	4.2	4.1	5.5
129°	40.9	23.9	14.1	8.8	5.0	4.1	4.2	4.3	4.3	4.2	5.6
129.5°	41.2	24.1	14.2	8.8	5.0	4.2	4.3	4.4	4.3	4.3	5.6
130°	41.5	24.3	14.3	8.8	5.1	4.2	4.3	4.4	4.4	4.3	5.7
130.5°	41.8	24.4	14.4	8.9	5.1	4.3	4.4	4.5	4.5	4.4	5.7
131°	42.2	24.6	14.5	8.9	5.1	4.4	4.4	4.6	4.5	4.5	5.7
131.5°	42.5	24.8	14.6	8.9	5.2	4.4	4.5	4.7	4.6	4.5	5.8
132°	42.8	25.0	14.7	9.0	5.2	4.5	4.5	4.7	4.7	4.6	5.8
132.5°	43.1	25.2	14.8	9.0	5.2	4.5	4.6	4.8	4.7	4.7	5.9
133°	43.4	25.4	14.9	9.0	5.3	4.6	4.6	4.9	4.8	4.7	5.9
133.5°	43.7	25.5	15.0	9.1	5.3	4.6	4.7	4.9	4.9	4.8	5.9
134°	44.0	25.7	15.0	9.1	5.3	4.6	4.7	5.0	5.0	4.9	6.0
134.5°	44.3	25.8	15.1	9.1	5.3	4.7	4.8	5.1	5.0	4.9	6.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	44.6	25.9	15.1	9.1	5.4	4.7	4.8	5.1	5.1	5.0	6.1
135.5°	44.9	26.0	15.2	9.1	5.4	4.8	4.8	5.2	5.2	5.1	6.1
136°	45.1	26.1	15.2	9.1	5.4	4.8	4.9	5.3	5.2	5.1	6.1
136.5°	45.3	26.2	15.3	9.1	5.4	4.8	4.9	5.3	5.3	5.2	6.1
137°	45.5	26.2	15.3	9.1	5.4	4.8	4.9	5.4	5.3	5.3	6.2
137.5°	45.7	26.3	15.3	9.1	5.4	4.9	5.0	5.4	5.4	5.3	6.2
138°	45.8	26.3	15.3	9.1	5.5	4.9	5.0	5.5	5.5	5.4	6.2
138.5°	46.0	26.3	15.3	9.1	5.5	5.0	5.1	5.5	5.5	5.4	6.2
139°	46.0	26.4	15.3	9.1	5.5	5.0	5.1	5.6	5.6	5.5	6.3
139.5°	46.1	26.3	15.3	9.1	5.5	5.0	5.1	5.6	5.6	5.5	6.3
140°	46.1	26.3	15.3	9.1	5.5	5.1	5.2	5.7	5.6	5.6	6.3
140.5°	46.0	26.3	15.2	9.0	5.5	5.1	5.2	5.7	5.7	5.6	6.3
141°	46.0	26.2	15.2	9.0	5.5	5.1	5.2	5.8	5.7	5.7	6.3
141.5°	45.8	26.2	15.1	9.0	5.5	5.1	5.2	5.8	5.8	5.7	6.3
142°	45.7	26.1	15.0	8.9	5.5	5.1	5.3	5.8	5.8	5.7	6.4
142.5°	45.5	26.0	15.0	8.9	5.5	5.2	5.3	5.9	5.9	5.8	6.4
143°	45.2	25.9	14.9	8.8	5.5	5.2	5.3	5.9	5.9	5.8	6.4
143.5°	44.9	25.8	14.8	8.8	5.5	5.2	5.3	5.9	5.9	5.9	6.4
144°	44.6	25.7	14.7	8.7	5.5	5.2	5.3	6.0	6.0	5.9	6.4
144.5°	44.2	25.5	14.6	8.7	5.5	5.2	5.3	6.0	6.0	5.9	6.4
145°	43.7	25.4	14.4	8.6	5.5	5.2	5.3	6.0	6.0	5.9	6.3
145.5°	43.2	25.2	14.3	8.5	5.5	5.2	5.3	6.0	6.0	6.0	6.3
146°	42.7	25.0	14.2	8.5	5.5	5.3	5.4	6.0	6.0	6.0	6.3
146.5°	42.1	24.8	14.1	8.4	5.5	5.3	5.4	6.0	6.0	6.0	6.3
147°	41.5	24.6	13.9	8.3	5.4	5.3	5.4	6.0	6.1	6.0	6.3
147.5°	40.8	24.4	13.8	8.2	5.4	5.3	5.4	6.0	6.0	6.0	6.2
148°	40.0	24.1	13.7	8.1	5.4	5.3	5.4	6.0	6.0	6.0	6.2
148.5°	39.2	23.9	13.5	8.1	5.4	5.3	5.4	6.0	6.0	6.0	6.2
149°	38.4	23.6	13.4	8.0	5.4	5.3	5.4	6.0	6.0	6.0	6.1
149.5°	37.6	23.3	13.2	7.9	5.4	5.3	5.4	6.0	6.0	6.0	6.1
150°	36.6	23.0	13.1	7.8	5.3	5.3	5.5	6.0	6.0	6.0	6.0
150.5°	35.7	22.6	12.9	7.7	5.3	5.3	5.5	6.0	6.0	6.0	6.0
151°	34.8	22.3	12.8	7.6	5.3	5.4	5.5	6.0	6.0	5.9	5.9
151.5°	33.8	21.9	12.6	7.5	5.3	5.4	5.5	5.9	6.0	5.9	5.9
152°	32.8	21.5	12.4	7.4	5.3	5.4	5.5	5.9	6.0	5.9	5.9
152.5°	31.8	21.1	12.2	7.4	5.2	5.4	5.5	5.9	5.9	5.9	5.8
153°	30.8	20.6	12.0	7.2	5.2	5.4	5.5	5.9	5.9	5.9	5.8
153.5°	29.7	20.2	11.8	7.1	5.2	5.4	5.5	5.9	5.9	5.9	5.7
154°	28.7	19.7	11.6	7.0	5.2	5.4	5.5	5.8	5.9	5.8	5.7
154.5°	27.7	19.2	11.4	6.9	5.1	5.3	5.5	5.8	5.8	5.8	5.6
155°	26.6	18.7	11.2	6.7	5.1	5.3	5.5	5.8	5.8	5.8	5.6
155.5°	25.5	18.2	11.0	6.6	5.1	5.4	5.5	5.8	5.8	5.7	5.6
156°	24.5	17.6	10.7	6.5	5.1	5.4	5.5	5.7	5.7	5.7	5.5
156.5°	23.5	17.1	10.5	6.3	5.1	5.4	5.5	5.7	5.7	5.7	5.5
157°	22.5	16.5	10.2	6.2	5.1	5.4	5.5	5.7	5.7	5.7	5.5



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	21.5	16.0	10.0	6.1	5.2	5.4	5.6	5.7	5.7	5.6	5.5
158°	20.5	15.4	9.7	5.9	5.2	5.5	5.6	5.7	5.6	5.6	5.5
158.5°	19.5	14.8	9.4	5.7	5.2	5.5	5.6	5.7	5.6	5.6	5.4
159°	18.6	14.2	9.1	5.6	5.2	5.5	5.6	5.6	5.6	5.6	5.4
159.5°	17.6	13.6	8.8	5.4	5.2	5.5	5.7	5.6	5.6	5.6	5.4
160°	16.7	13.0	8.5	5.3	5.3	5.6	5.7	5.6	5.6	5.5	5.4
160.5°	15.8	12.4	8.2	5.3	5.3	5.6	5.7	5.6	5.6	5.5	5.4
161°	14.9	11.7	7.8	5.3	5.3	5.6	5.7	5.6	5.5	5.5	5.3
161.5°	14.0	11.1	7.5	5.2	5.3	5.5	5.7	5.5	5.5	5.5	5.3
162°	13.2	10.5	7.1	5.1	5.3	5.5	5.7	5.5	5.5	5.4	5.3
162.5°	12.4	9.9	6.8	5.0	5.3	5.5	5.7	5.5	5.4	5.4	5.2
163°	11.6	9.3	6.4	5.0	5.3	5.5	5.7	5.4	5.4	5.4	5.2
163.5°	10.8	8.8	6.1	5.0	5.3	5.6	5.7	5.4	5.4	5.3	5.2
164°	10.1	8.2	5.9	5.0	5.3	5.6	5.7	5.4	5.4	5.3	5.2
164.5°	9.5	7.7	5.7	5.1	5.4	5.6	5.8	5.3	5.3	5.3	5.1
165°	8.8	7.3	5.5	5.2	5.4	5.7	5.8	5.3	5.3	5.3	5.1
165.5°	8.3	6.9	5.3	5.2	5.5	5.7	5.9	5.3	5.3	5.2	5.1
166°	7.7	6.5	5.2	5.3	5.6	5.8	6.0	5.3	5.3	5.2	5.1
166.5°	7.2	6.0	5.2	5.4	5.6	5.9	6.0	5.3	5.3	5.3	5.1
167°	6.7	5.7	5.3	5.5	5.7	5.9	6.1	5.3	5.3	5.3	5.2
167.5°	6.2	5.4	5.3	5.5	5.7	6.0	6.1	5.3	5.3	5.3	5.1
168°	5.8	5.2	5.4	5.5	5.7	6.0	6.1	5.3	5.3	5.2	5.1
168.5°	5.3	5.2	5.4	5.5	5.8	6.0	6.2	5.3	5.3	5.2	5.1
169°	5.0	5.2	5.4	5.6	5.8	6.0	6.2	5.2	5.2	5.2	5.1
169.5°	5.0	5.2	5.4	5.6	5.8	6.0	6.2	5.2	5.2	5.2	5.1
170°	5.0	5.2	5.4	5.6	5.8	6.1	6.2	5.2	5.2	5.1	5.0
170.5°	5.0	5.2	5.5	5.6	5.9	6.1	6.3	5.2	5.2	5.1	5.0
171°	5.0	5.3	5.5	5.7	5.9	6.1	6.3	5.2	5.1	5.1	5.0
171.5°	5.1	5.3	5.5	5.7	5.9	6.2	6.4	5.1	5.1	5.0	4.9
172°	5.2	5.4	5.6	5.8	6.0	6.3	6.5	5.1	5.1	5.0	4.9
172.5°	5.3	5.5	5.7	5.9	6.1	6.4	6.6	5.1	5.1	5.0	4.9
173°	5.4	5.6	5.8	6.0	6.2	6.5	6.7	5.1	5.1	5.0	4.8
173.5°	5.5	5.7	5.9	6.1	6.3	6.6	6.8	5.0	5.0	4.9	4.8
174°	5.5	5.7	5.9	6.1	6.3	6.6	6.8	5.0	5.0	4.9	4.8
174.5°	5.5	5.7	5.9	6.1	6.3	6.5	6.8	5.0	5.0	4.9	4.8
175°	5.5	5.7	5.9	6.1	6.3	6.5	6.7	5.0	5.0	4.9	4.8
175.5°	5.5	5.7	5.9	6.1	6.3	6.5	6.7	4.9	4.9	4.8	4.7
176°	5.5	5.7	5.9	6.1	6.3	6.5	6.7	4.9	4.9	4.8	4.7
176.5°	5.5	5.7	5.9	6.0	6.2	6.4	6.6	4.8	4.8	4.7	4.6
177°	5.5	5.7	5.8	6.0	6.2	6.4	6.6	4.8	4.8	4.7	4.6
177.5°	5.5	5.6	5.8	5.9	6.1	6.3	6.5	4.8	4.7	4.7	4.5
178°	5.4	5.6	5.7	5.9	6.0	6.3	6.4	4.7	4.7	4.6	4.5
178.5°	5.4	5.5	5.7	5.8	6.0	6.2	6.4	4.7	4.6	4.6	4.5
179°	5.3	5.5	5.6	5.8	5.9	6.2	6.3	4.6	4.6	4.5	4.4
179.5°	5.3	5.4	5.6	5.7	5.9	6.1	6.3	4.6	4.5	4.5	4.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P973045

CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5	4374.5
0.5°	4317.5	4323.6	4334.8	4347.3	4359.1	4373.1	4388.8	4402.9	4412.9	4423.3	4436.5
1°	4296.2	4299.3	4314.0	4333.1	4350.4	4374.1	4403.5	4433.6	4462.0	4476.1	4487.2
1.5°	4326.1	4313.6	4306.4	4315.1	4340.3	4375.1	4414.1	4461.4	4483.0	4477.2	4455.9
2°	4368.1	4341.1	4323.5	4310.3	4329.0	4372.1	4430.1	4475.1	4463.6	4419.7	4358.3
2.5°	4409.8	4377.5	4351.5	4318.4	4319.8	4369.7	4441.1	4472.6	4415.2	4313.4	4202.1
3°	4441.6	4412.7	4372.7	4331.9	4313.7	4364.9	4448.8	4449.9	4330.3	4184.1	4057.5
3.5°	4447.3	4433.4	4396.6	4347.0	4309.9	4364.9	4457.6	4408.4	4239.6	4067.7	3976.6
4°	4401.7	4437.0	4419.0	4361.8	4315.4	4365.5	4461.2	4369.2	4146.1	3979.1	3946.4
4.5°	4325.5	4416.7	4440.0	4387.2	4318.8	4362.5	4459.4	4309.6	4047.4	3944.7	3964.1
5°	4263.4	4364.7	4445.6	4406.6	4324.3	4358.0	4455.7	4238.3	3985.8	3946.4	3979.1
5.5°	4233.1	4302.9	4431.3	4420.8	4316.8	4353.3	4439.0	4166.4	3944.3	3964.0	3936.4
6°	4237.2	4255.7	4396.3	4423.5	4317.0	4346.6	4418.4	4088.7	3928.1	3972.0	3829.6
6.5°	4254.5	4236.0	4345.3	4423.3	4316.5	4337.6	4393.8	4014.9	3935.2	3934.9	3690.2
7°	4239.2	4239.8	4292.2	4422.2	4314.9	4331.9	4362.7	3966.9	3946.1	3836.3	3580.7
7.5°	4183.1	4244.6	4240.6	4414.8	4318.1	4325.7	4326.7	3928.8	3950.1	3707.1	3554.8
8°	4087.9	4240.2	4214.7	4393.7	4323.9	4314.1	4288.1	3901.8	3923.6	3600.7	3617.5
8.5°	3957.5	4206.7	4203.4	4362.1	4323.7	4302.4	4246.3	3893.8	3870.3	3535.1	3740.1
9°	3823.4	4146.0	4205.0	4319.5	4325.1	4293.8	4203.4	3893.1	3782.1	3542.6	3858.7
9.5°	3742.5	4054.4	4203.1	4276.9	4326.0	4282.0	4148.4	3889.4	3686.5	3594.3	3923.2
10°	3707.1	3938.0	4198.5	4228.8	4324.1	4272.2	4105.2	3896.9	3595.1	3697.2	3906.8
10.5°	3703.2	3827.8	4179.1	4192.4	4323.4	4263.9	4063.6	3893.5	3515.7	3800.2	3831.3
11°	3688.4	3730.6	4142.8	4161.8	4322.0	4250.9	4016.6	3877.0	3489.9	3866.6	3766.2
11.5°	3645.8	3675.5	4086.5	4138.3	4315.8	4242.1	3977.0	3847.8	3501.1	3892.4	3748.2
12°	3531.5	3649.2	4012.1	4127.6	4308.3	4228.8	3932.4	3806.3	3543.7	3850.7	3810.2
12.5°	3386.1	3643.9	3929.2	4118.5	4297.5	4213.9	3890.2	3744.4	3609.3	3788.4	3929.0
13°	3233.8	3635.9	3830.1	4110.0	4285.4	4198.4	3854.2	3683.1	3679.0	3738.2	4095.3
13.5°	3124.8	3598.3	3736.6	4095.6	4258.8	4182.4	3824.9	3612.0	3744.5	3720.4	4222.7
14°	3063.0	3522.3	3661.8	4081.9	4241.0	4167.2	3794.4	3535.4	3782.4	3748.6	4268.6
14.5°	3027.2	3411.6	3595.7	4059.6	4214.5	4144.8	3771.8	3482.0	3792.1	3824.3	4246.4
15°	2981.5	3269.3	3555.3	4033.0	4189.7	4127.0	3748.7	3434.3	3772.6	3940.0	4179.8
15.5°	2901.6	3145.2	3534.5	3999.3	4161.2	4109.6	3733.6	3405.6	3725.0	4049.8	4116.9
16°	2779.5	3046.6	3516.2	3961.9	4131.4	4091.7	3716.5	3393.3	3678.2	4134.0	4107.0
16.5°	2638.7	2983.1	3499.7	3919.4	4100.4	4073.8	3702.1	3398.9	3641.6	4168.9	4159.7
17°	2502.0	2945.2	3478.1	3874.0	4070.9	4051.5	3688.1	3416.7	3628.5	4158.2	4239.3
17.5°	2388.4	2911.5	3430.9	3812.9	4037.2	4030.6	3669.6	3437.2	3636.7	4115.0	4318.5
18°	2304.2	2857.8	3358.6	3747.5	4001.5	4010.1	3655.0	3469.0	3673.0	4050.8	4375.8
18.5°	2232.6	2777.9	3262.5	3676.7	3965.2	3987.8	3634.3	3498.5	3729.0	4009.3	4407.9
19°	2158.9	2667.8	3151.5	3596.3	3925.2	3967.3	3617.8	3521.5	3789.4	4003.9	4433.2
19.5°	2068.8	2547.1	3047.8	3524.6	3892.5	3942.0	3597.7	3542.8	3857.8	4035.5	4468.0
20°	1963.9	2427.2	2959.1	3456.7	3855.3	3922.6	3569.7	3554.2	3906.1	4092.2	4540.0
20.5°	1842.4	2328.1	2879.8	3397.3	3825.3	3897.2	3543.3	3546.1	3935.9	4154.7	4657.1
21°	1724.4	2247.1	2824.4	3347.5	3794.9	3872.4	3511.2	3527.9	3949.6	4215.3	4817.9
21.5°	1651.9	2182.2	2784.6	3306.5	3763.4	3840.9	3473.6	3504.1	3937.7	4257.5	4988.2
22°	1579.4	2121.4	2745.2	3270.1	3735.8	3811.3	3439.1	3475.1	3905.5	4285.2	5160.1



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CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1506.9	2049.8	2701.7	3243.9	3711.8	3784.9	3407.1	3449.7	3858.6	4300.7	5306.0
23°	1434.4	1974.8	2649.1	3219.1	3686.4	3756.1	3371.0	3423.8	3814.4	4321.0	5391.6
23.5°	1363.6	1893.1	2582.0	3197.9	3666.4	3731.4	3333.9	3407.9	3782.4	4360.6	5457.5
24°	1322.9	1800.3	2500.6	3171.5	3641.8	3702.7	3293.2	3393.2	3768.2	4438.0	5534.1
24.5°	1287.4	1711.2	2419.8	3138.0	3617.8	3678.3	3250.0	3383.9	3775.1	4538.7	5618.7
25°	1253.5	1626.9	2336.4	3096.6	3594.5	3657.3	3213.7	3380.2	3797.0	4662.0	5731.7
25.5°	1218.8	1570.9	2261.9	3044.6	3572.8	3633.2	3177.5	3385.2	3831.4	4803.9	5867.3
26°	1185.7	1515.0	2191.3	2988.8	3547.8	3612.8	3141.0	3401.8	3863.5	4906.7	5965.0
26.5°	1152.5	1459.0	2126.8	2924.6	3527.7	3592.7	3115.5	3416.3	3891.8	4988.6	6030.4
27°	1119.7	1403.1	2072.0	2867.3	3504.1	3576.5	3090.9	3443.6	3922.4	5054.9	6062.8
27.5°	1086.2	1347.6	2016.9	2802.7	3481.7	3556.2	3069.7	3470.5	3940.6	5093.4	6072.6
28°	1051.4	1313.5	1963.1	2746.0	3456.0	3540.0	3054.0	3489.5	3954.5	5124.3	6082.5
28.5°	1018.6	1282.4	1913.4	2701.5	3433.7	3521.4	3036.6	3511.9	3973.2	5169.8	6106.4
29°	986.0	1252.7	1859.6	2657.9	3405.9	3506.6	3024.6	3526.6	3995.9	5226.0	6124.8
29.5°	952.5	1221.5	1804.8	2619.4	3379.7	3488.5	3014.5	3527.0	4018.8	5294.0	6121.8
30°	920.1	1191.9	1755.2	2589.9	3354.2	3471.4	3002.7	3521.7	4060.8	5375.2	6094.7
30.5°	887.0	1163.1	1703.5	2559.0	3326.2	3452.9	2994.3	3505.8	4111.4	5432.9	6052.2
31°	854.6	1132.8	1652.7	2527.7	3297.1	3436.8	2986.5	3483.8	4164.3	5457.9	6009.5
31.5°	823.8	1102.7	1605.8	2499.6	3269.7	3420.6	2979.4	3456.5	4244.6	5467.6	5975.7
32°	794.4	1073.0	1561.5	2467.4	3239.3	3404.4	2978.2	3424.3	4312.6	5458.7	5950.2
32.5°	764.1	1042.5	1529.0	2429.9	3214.9	3389.1	2976.8	3397.4	4363.9	5451.2	5918.3
33°	735.6	1012.7	1496.5	2398.1	3188.7	3376.6	2978.6	3380.5	4410.5	5452.9	5877.9
33.5°	708.6	983.7	1464.0	2360.3	3165.7	3363.5	2978.2	3371.1	4443.0	5456.1	5825.4
34°	681.7	954.2	1431.5	2326.1	3139.2	3351.8	2978.6	3366.6	4460.1	5454.6	5769.9
34.5°	656.7	924.4	1399.2	2295.7	3113.9	3342.6	2978.0	3369.6	4476.9	5443.8	5719.1
35°	633.1	896.0	1376.6	2266.0	3091.8	3332.4	2978.3	3378.1	4487.4	5419.0	5677.7
35.5°	608.8	866.1	1355.4	2238.4	3073.9	3322.7	2975.3	3382.9	4492.7	5381.3	5633.7
36°	587.7	839.3	1337.8	2216.9	3056.9	3312.3	2975.1	3388.2	4508.0	5339.0	5579.6
36.5°	566.7	813.2	1320.2	2193.7	3042.9	3304.9	2973.2	3395.3	4531.4	5298.5	5516.0
37°	544.9	787.0	1301.8	2174.1	3030.8	3298.5	2965.5	3395.1	4552.9	5260.7	5452.9
37.5°	525.2	763.6	1284.8	2157.7	3018.7	3290.9	2956.1	3396.3	4573.8	5225.7	5389.3
38°	506.3	742.9	1267.5	2137.6	3010.1	3285.0	2944.1	3399.4	4590.2	5188.0	5342.0
38.5°	487.4	721.8	1250.2	2121.4	3003.3	3280.4	2929.8	3402.5	4596.2	5152.6	5301.1
39°	470.1	701.8	1234.0	2106.6	2998.6	3275.0	2918.5	3406.0	4599.2	5112.9	5252.1
39.5°	452.4	683.3	1215.0	2087.2	2992.5	3268.9	2902.8	3414.4	4595.8	5068.8	5206.2
40°	435.3	665.3	1197.8	2073.0	2986.8	3265.0	2892.6	3422.6	4583.4	5033.2	5162.7
40.5°	418.7	648.5	1180.8	2057.9	2976.6	3254.5	2882.2	3431.5	4571.6	5003.1	5121.7
41°	402.6	633.1	1162.3	2040.1	2966.0	3245.0	2872.4	3443.0	4560.6	4967.1	5083.7
41.5°	387.5	617.8	1144.7	2023.3	2955.5	3234.6	2864.7	3451.0	4550.7	4932.9	5055.1
42°	373.9	604.3	1128.3	2007.4	2941.3	3225.2	2856.9	3459.4	4546.7	4896.9	5030.6
42.5°	359.8	590.2	1110.0	1988.2	2926.3	3217.6	2851.2	3472.0	4542.8	4860.2	5004.3
43°	346.5	577.1	1093.0	1971.3	2911.6	3211.3	2847.5	3479.4	4530.7	4822.3	4972.1
43.5°	334.6	564.7	1077.2	1955.4	2897.8	3208.0	2847.0	3486.7	4514.7	4787.2	4942.4
44°	322.7	552.6	1060.0	1935.6	2884.7	3205.3	2849.7	3501.3	4491.7	4757.1	4914.5
44.5°	311.4	540.4	1043.6	1919.3	2873.2	3201.5	2852.6	3511.2	4458.8	4730.6	4897.6



REPORT NUMBER: P973045

CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	301.1	529.6	1030.3	1904.2	2862.2	3200.0	2855.2	3521.1	4426.7	4703.7	4882.9
45.5°	291.2	518.6	1017.1	1885.4	2852.4	3195.7	2858.0	3535.4	4400.3	4674.9	4868.7
46°	282.0	507.5	1005.9	1870.4	2842.1	3192.5	2860.0	3544.0	4375.4	4641.5	4855.4
46.5°	273.6	497.3	996.4	1854.3	2830.1	3187.2	2859.3	3548.3	4355.1	4607.7	4845.6
47°	265.4	487.1	986.8	1837.9	2818.4	3181.1	2858.0	3557.4	4334.9	4574.5	4834.1
47.5°	257.9	476.5	979.4	1823.3	2807.0	3175.6	2855.7	3561.7	4311.7	4543.6	4823.1
48°	251.5	467.2	972.3	1807.0	2793.7	3168.2	2849.9	3564.2	4286.1	4512.8	4814.1
48.5°	244.6	457.6	964.8	1788.9	2782.5	3159.0	2842.5	3573.5	4259.2	4477.1	4804.2
49°	238.5	448.7	958.0	1772.2	2773.1	3151.1	2831.7	3579.5	4232.5	4440.8	4787.9
49.5°	232.7	440.3	952.0	1754.3	2761.2	3141.5	2821.2	3588.3	4210.6	4400.6	4772.6
50°	226.8	432.0	944.1	1734.6	2748.2	3132.1	2807.6	3600.0	4185.5	4358.7	4750.4
50.5°	221.3	423.9	938.0	1716.9	2736.7	3123.0	2791.5	3602.7	4158.8	4320.5	4724.6
51°	216.3	416.6	931.4	1696.0	2720.6	3113.1	2773.0	3604.6	4132.3	4278.0	4693.3
51.5°	211.0	408.8	922.8	1675.0	2705.2	3100.2	2751.4	3604.8	4098.5	4239.2	4657.7
52°	206.2	401.7	916.0	1657.6	2689.9	3082.6	2729.4	3597.0	4062.4	4205.1	4625.0
52.5°	201.6	394.5	907.2	1638.3	2673.8	3065.0	2704.2	3587.5	4022.9	4162.8	4588.8
53°	196.9	386.9	896.5	1620.7	2654.9	3043.2	2675.9	3574.6	3979.8	4121.0	4552.0
53.5°	192.4	379.5	887.3	1604.7	2636.8	3019.6	2646.8	3552.7	3935.1	4078.2	4527.1
54°	187.9	372.4	876.1	1587.7	2615.6	2990.9	2615.5	3526.6	3886.5	4033.7	4495.4
54.5°	183.3	364.9	865.6	1568.4	2592.8	2958.2	2581.6	3498.8	3838.7	3990.0	4456.0
55°	179.1	358.0	854.8	1552.0	2566.8	2919.2	2548.4	3468.8	3791.6	3949.0	4424.3
55.5°	174.7	351.0	842.9	1536.1	2540.2	2878.2	2510.3	3433.3	3743.0	3906.9	4382.2
56°	170.2	343.7	830.4	1520.1	2509.1	2832.9	2470.3	3394.2	3687.2	3861.1	4340.3
56.5°	166.1	337.1	819.7	1506.3	2479.0	2787.1	2429.0	3352.4	3635.8	3816.6	4301.1
57°	162.0	330.7	807.5	1493.2	2445.6	2734.7	2388.4	3304.0	3583.7	3772.9	4249.6
57.5°	158.0	324.2	795.1	1480.3	2412.7	2684.4	2345.6	3251.8	3534.1	3730.9	4202.9
58°	154.0	318.0	783.2	1468.1	2380.7	2632.7	2302.2	3192.9	3482.7	3680.5	4155.4
58.5°	149.9	312.0	770.8	1455.9	2348.5	2584.7	2262.6	3138.0	3429.7	3633.2	4101.4
59°	145.9	305.0	757.5	1443.7	2317.5	2536.9	2218.9	3078.7	3373.4	3581.2	4033.0
59.5°	141.7	298.0	743.9	1431.6	2284.0	2488.0	2177.6	3020.1	3318.5	3533.1	3965.5
60°	137.6	290.5	729.8	1419.3	2249.9	2438.8	2137.9	2962.2	3264.3	3488.2	3898.5
60.5°	133.4	282.6	714.5	1404.5	2216.6	2391.3	2097.4	2906.4	3210.9	3446.4	3822.8
61°	129.4	275.7	700.1	1389.2	2181.5	2341.3	2056.3	2845.7	3158.2	3404.0	3741.7
61.5°	125.3	268.9	683.9	1371.2	2147.3	2293.4	2016.6	2789.3	3102.5	3353.7	3668.4
62°	121.2	262.2	666.6	1351.2	2114.3	2245.8	1980.5	2729.9	3041.8	3296.4	3592.1
62.5°	117.5	255.8	650.3	1329.1	2079.9	2199.7	1942.5	2678.3	2982.0	3236.6	3514.6
63°	113.4	248.8	631.3	1303.5	2045.3	2157.6	1906.4	2622.1	2921.7	3171.1	3438.5
63.5°	109.6	241.8	613.7	1275.9	2010.3	2117.5	1869.9	2565.0	2862.2	3094.3	3356.2
64°	105.9	235.0	595.9	1250.0	1976.1	2075.2	1835.0	2510.8	2801.2	3015.8	3277.0
64.5°	102.3	227.7	577.4	1223.6	1938.4	2030.8	1798.7	2460.4	2741.5	2941.7	3204.4
65°	98.6	219.9	557.6	1198.7	1901.5	1987.0	1760.4	2406.8	2680.4	2865.2	3129.2
65.5°	95.2	212.5	540.1	1173.5	1860.4	1945.1	1723.2	2355.1	2619.2	2785.2	3054.7
66°	91.4	205.2	521.0	1144.7	1820.8	1899.5	1686.0	2304.9	2558.2	2712.2	2981.2
66.5°	87.7	197.6	502.8	1116.1	1781.1	1852.7	1645.2	2253.5	2494.8	2639.4	2905.5
67°	83.7	190.7	484.7	1088.1	1740.4	1808.0	1605.1	2198.5	2432.8	2564.4	2834.8



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	79.3	184.5	467.8	1058.0	1697.9	1767.7	1566.4	2145.2	2368.0	2493.0	2768.7
68°	72.6	177.9	450.7	1026.1	1655.4	1727.4	1527.3	2091.9	2300.2	2420.3	2698.2
68.5°	65.1	171.6	434.7	994.6	1611.3	1684.1	1488.2	2042.8	2235.2	2355.6	2627.1
69°	56.6	165.5	419.4	962.0	1568.4	1638.1	1449.2	1988.0	2166.8	2291.3	2552.3
69.5°	51.3	159.3	404.5	930.1	1524.0	1594.2	1410.1	1937.3	2097.3	2225.2	2474.1
70°	49.8	153.2	389.9	899.2	1479.6	1546.7	1371.0	1887.5	2030.7	2163.5	2396.8
70.5°	48.7	147.1	375.9	864.5	1435.2	1499.2	1331.1	1835.4	1964.4	2101.1	2319.2
71°	47.6	140.9	362.2	834.3	1390.9	1451.8	1291.9	1781.3	1896.9	2035.0	2240.7
71.5°	46.6	133.1	349.6	806.9	1346.5	1404.3	1250.5	1729.6	1830.1	1967.3	2163.7
72°	45.6	124.3	336.7	781.2	1299.5	1356.7	1209.7	1677.5	1768.7	1906.8	2093.4
72.5°	44.6	118.0	323.7	755.5	1253.1	1306.8	1166.5	1622.2	1706.7	1840.6	2019.4
73°	43.7	113.5	309.6	729.7	1206.1	1260.5	1127.0	1562.3	1646.3	1771.2	1944.0
73.5°	42.7	108.8	296.1	704.6	1158.3	1214.3	1089.4	1502.3	1591.1	1708.9	1875.6
74°	41.8	104.0	283.7	681.4	1112.6	1165.2	1050.0	1442.3	1535.3	1640.6	1802.5
74.5°	41.0	99.9	273.2	659.2	1067.0	1116.4	1009.2	1382.3	1479.5	1576.9	1733.4
75°	40.1	95.9	262.2	638.2	1022.6	1070.2	970.1	1322.3	1423.7	1513.2	1663.1
75.5°	39.2	92.1	251.1	619.1	981.0	1023.7	929.7	1257.7	1367.9	1449.4	1592.3
76°	38.4	88.6	240.8	601.8	940.7	978.3	890.1	1193.9	1311.9	1385.7	1521.5
76.5°	37.5	85.3	230.2	582.2	904.3	935.1	851.8	1137.6	1255.4	1322.2	1450.6
77°	36.6	82.1	220.5	562.9	866.3	891.7	811.8	1080.4	1196.1	1261.0	1379.8
77.5°	35.7	79.0	212.5	544.0	830.6	845.0	772.3	1022.4	1136.6	1201.7	1309.0
78°	34.8	75.8	204.1	522.3	790.3	797.6	733.6	968.9	1081.4	1144.9	1244.5
78.5°	33.8	72.8	197.2	501.9	747.9	751.0	691.7	916.3	1024.5	1085.0	1175.7
79°	32.8	70.0	189.8	480.7	703.3	706.3	649.4	864.2	970.3	1028.3	1109.4
79.5°	31.8	67.1	181.8	459.6	657.9	662.8	608.5	816.1	920.5	975.7	1043.2
80°	30.8	64.3	172.4	437.6	612.6	619.0	567.8	768.3	870.0	919.2	979.0
80.5°	29.8	61.7	163.0	415.7	571.1	576.8	528.7	720.8	819.4	864.2	914.8
81°	28.8	59.1	153.5	393.2	532.1	535.2	494.3	676.2	772.6	812.8	857.7
81.5°	27.9	56.6	144.1	370.5	495.8	493.5	458.5	633.2	725.2	758.8	797.1
82°	27.0	54.0	134.7	347.9	458.9	451.3	421.8	589.1	680.0	707.8	737.9
82.5°	26.0	51.5	125.0	323.1	425.1	412.4	385.4	547.5	634.7	658.7	684.4
83°	25.2	49.0	115.4	299.3	391.6	374.6	353.1	507.3	590.6	611.9	632.2
83.5°	24.2	46.5	105.9	276.6	358.1	337.6	323.6	469.2	546.5	564.7	583.8
84°	23.4	44.1	97.0	253.4	325.2	302.5	295.9	432.0	505.4	524.3	541.2
84.5°	22.6	41.8	89.3	230.8	293.1	268.1	268.0	395.8	463.1	482.7	498.0
85°	21.8	39.7	82.2	209.5	263.0	235.9	244.0	362.3	425.6	446.3	459.7
85.5°	21.0	37.7	75.3	191.9	234.0	211.2	220.1	329.7	390.9	412.3	424.7
86°	20.3	35.7	69.5	174.3	212.1	186.5	199.0	298.8	357.7	380.4	391.9
86.5°	19.6	34.0	64.2	156.6	190.1	161.8	182.4	271.2	327.9	351.6	360.9
87°	18.9	32.3	59.6	139.0	168.1	137.1	165.8	248.1	303.0	326.9	334.8
87.5°	18.2	30.8	55.6	121.5	146.1	112.5	149.1	225.1	279.1	302.9	309.3
88°	17.6	29.3	52.0	109.6	124.2	96.5	132.8	206.3	258.1	281.3	286.3
88.5°	17.0	28.0	49.0	98.8	109.2	82.4	121.4	190.4	239.9	261.9	266.1
89°	16.3	26.8	46.3	89.5	97.0	71.2	111.0	180.0	224.0	245.0	247.2
89.5°	15.8	25.6	44.0	81.6	86.5	62.1	102.9	169.6	210.1	229.0	230.7



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	15.3	24.6	41.9	75.2	78.4	55.5	96.7	159.1	197.0	215.7	216.9
90.5°	14.8	23.6	40.3	69.9	72.2	50.4	91.8	148.7	185.3	203.3	204.2
91°	14.3	22.8	38.9	65.5	67.9	46.6	88.0	138.3	175.7	191.5	192.8
91.5°	13.8	22.1	37.8	62.0	64.7	44.0	85.1	132.7	169.8	180.7	181.8
92°	13.4	21.5	36.9	59.0	62.6	42.4	82.8	128.1	163.8	172.3	171.7
92.5°	13.0	21.0	36.2	56.6	61.2	41.5	81.0	124.2	157.9	166.3	165.8
93°	12.8	20.5	35.8	55.0	60.3	41.0	79.5	121.0	151.9	160.3	159.8
93.5°	12.5	20.1	35.5	54.0	59.7	40.8	78.2	118.1	146.0	154.3	153.9
94°	12.2	19.6	35.3	53.4	59.6	40.9	77.0	115.6	142.1	148.4	148.0
94.5°	12.0	19.2	35.1	53.0	59.6	41.1	76.2	113.4	138.6	144.1	144.2
95°	11.8	18.9	34.9	52.7	59.7	41.6	75.6	111.3	135.4	140.3	141.0
95.5°	11.6	18.5	34.8	52.5	59.7	42.1	75.2	109.3	132.3	136.8	138.2
96°	11.4	18.2	34.6	52.3	59.7	42.8	75.2	107.6	129.6	133.8	135.8
96.5°	11.2	18.0	34.4	52.0	59.5	43.5	75.4	106.1	127.1	131.1	133.6
97°	11.0	17.7	34.1	51.6	59.2	44.2	75.5	104.9	124.7	128.6	131.7
97.5°	10.9	17.5	33.7	51.1	58.9	45.0	75.8	104.0	122.7	126.4	130.2
98°	10.7	17.2	33.2	50.5	58.5	45.8	76.1	103.3	120.9	124.5	128.7
98.5°	10.5	16.9	32.5	49.8	58.0	46.6	76.5	102.7	119.2	122.8	127.4
99°	10.3	16.6	31.8	49.2	57.7	47.5	77.0	102.2	117.8	121.4	126.3
99.5°	10.1	16.4	31.0	48.4	57.3	48.4	77.5	101.9	116.6	120.0	125.4
100°	10.0	16.1	30.2	47.7	57.2	49.3	78.2	101.7	115.7	118.7	124.5
100.5°	9.8	15.9	29.4	47.0	57.0	50.2	78.8	101.6	115.0	117.7	123.3
101°	9.6	15.6	28.7	46.3	57.0	51.1	79.4	101.6	114.4	117.2	122.3
101.5°	9.3	15.4	28.0	45.7	57.1	52.1	80.0	101.5	113.9	117.0	122.1
102°	9.1	15.2	27.4	45.0	57.3	53.0	80.7	101.5	113.4	116.7	122.4
102.5°	8.8	15.0	26.8	44.6	57.6	54.0	81.5	101.5	112.9	116.4	122.2
103°	8.5	14.8	26.4	44.1	57.9	54.9	82.3	101.6	112.4	116.1	122.0
103.5°	8.3	14.7	25.9	43.7	58.4	55.8	83.1	101.7	112.0	115.8	121.8
104°	8.2	14.5	25.6	43.4	58.9	56.8	84.0	101.8	111.6	115.7	121.6
104.5°	8.1	14.4	25.3	43.1	59.6	57.7	84.8	102.0	111.2	115.5	121.5
105°	7.9	14.3	25.1	42.9	60.2	58.7	85.6	102.1	110.8	115.4	121.5
105.5°	7.9	14.1	24.9	42.7	60.8	59.7	86.4	102.2	110.4	115.2	121.4
106°	7.8	14.0	24.8	42.6	61.4	60.6	87.2	102.3	110.0	115.0	121.4
106.5°	7.7	13.9	24.7	42.5	62.0	61.5	87.9	102.3	109.6	114.9	121.3
107°	7.6	13.8	24.7	42.5	62.7	62.4	88.6	102.4	109.2	114.6	121.1
107.5°	7.6	13.6	24.6	42.5	63.3	63.2	89.3	102.6	108.8	114.3	120.9
108°	7.5	13.5	24.6	42.5	63.8	64.0	90.0	102.8	108.5	113.8	120.5
108.5°	7.4	13.4	24.6	42.5	64.3	64.8	90.7	103.2	108.2	113.5	120.0
109°	7.3	13.3	24.6	42.5	64.8	65.5	91.3	103.7	108.1	113.1	119.6
109.5°	7.2	13.2	24.6	42.6	65.2	66.2	92.0	104.2	108.0	113.0	119.2
110°	7.1	13.2	24.6	42.6	65.6	66.8	92.7	104.7	107.9	112.8	118.8
110.5°	7.0	13.1	24.6	42.7	66.1	67.4	93.3	105.1	107.8	112.7	118.4
111°	6.9	13.1	24.7	42.8	66.6	68.1	94.0	105.6	107.8	112.6	118.1
111.5°	6.8	13.0	24.7	42.8	67.1	68.8	94.8	106.0	107.7	112.5	117.8
112°	6.8	13.0	24.7	42.8	67.6	69.6	95.4	106.4	107.7	112.5	117.5



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	6.8	12.9	24.7	42.8	68.1	70.3	96.1	106.8	107.7	112.4	117.2
113°	6.8	12.9	24.7	42.8	68.6	70.9	96.7	107.2	107.6	112.4	117.0
113.5°	6.8	12.9	24.7	42.8	69.0	71.4	97.2	107.6	107.6	112.3	116.8
114°	6.8	12.8	24.6	42.8	69.4	72.0	97.6	107.9	107.7	112.2	116.8
114.5°	6.8	12.8	24.6	42.7	69.7	72.5	98.1	108.3	107.6	112.1	116.7
115°	6.8	12.8	24.5	42.7	70.1	73.0	98.5	108.6	107.5	111.9	116.7
115.5°	6.8	12.7	24.5	42.7	70.4	73.4	99.0	109.0	107.5	111.8	116.6
116°	6.8	12.7	24.4	42.6	70.6	73.7	99.2	109.2	107.4	111.7	116.4
116.5°	6.9	12.7	24.3	42.6	70.8	73.9	99.5	109.3	107.4	111.6	116.3
117°	6.9	12.8	24.2	42.6	71.2	74.1	99.8	109.4	107.3	111.6	116.2
117.5°	7.0	12.8	24.2	42.5	71.5	74.3	100.0	109.5	107.3	111.5	116.0
118°	7.0	12.8	24.1	42.5	71.8	74.5	100.0	109.7	107.3	111.5	115.9
118.5°	7.1	12.9	24.0	42.5	72.0	74.6	100.0	109.7	107.3	111.4	115.8
119°	7.1	12.9	24.0	42.5	72.0	74.6	99.9	109.8	107.3	111.4	115.6
119.5°	7.2	13.0	24.0	42.5	72.0	74.5	99.7	109.9	107.3	111.3	115.5
120°	7.3	13.0	23.9	42.5	72.0	74.4	99.5	109.9	107.2	111.4	115.4
120.5°	7.4	13.1	23.9	42.4	71.9	74.2	99.3	109.9	107.3	111.4	115.3
121°	7.5	13.1	23.9	42.4	71.9	73.9	99.0	109.9	107.3	111.5	115.3
121.5°	7.6	13.2	23.9	42.4	71.8	73.5	98.6	109.8	107.3	111.5	115.2
122°	7.7	13.3	23.9	42.4	71.7	73.1	98.1	109.8	107.3	111.6	115.2
122.5°	7.8	13.3	23.9	42.3	71.6	72.6	97.6	109.8	107.4	111.7	115.2
123°	7.9	13.4	23.9	42.3	71.5	72.1	97.1	109.8	107.5	111.8	115.2
123.5°	8.0	13.4	24.0	42.3	71.4	71.6	96.6	109.8	107.6	111.9	115.2
124°	8.1	13.5	24.0	42.3	71.3	71.2	96.0	109.9	107.7	112.0	115.2
124.5°	8.2	13.6	24.1	42.4	71.1	70.7	95.5	110.0	107.8	112.2	115.2
125°	8.3	13.6	24.2	42.5	71.0	70.2	95.0	110.2	108.0	112.3	115.2
125.5°	8.4	13.7	24.2	42.6	71.0	69.9	94.5	110.4	108.3	112.5	115.2
126°	8.5	13.8	24.3	42.7	70.9	69.5	94.0	110.5	108.5	112.6	115.2
126.5°	8.6	13.9	24.4	42.8	70.9	69.2	93.6	110.8	108.8	112.8	115.2
127°	8.6	14.0	24.5	42.9	70.9	68.9	93.1	111.0	109.0	112.9	115.2
127.5°	8.7	14.1	24.6	43.1	71.0	68.7	92.7	111.2	109.4	113.1	115.3
128°	8.8	14.2	24.7	43.3	71.1	68.6	92.4	111.4	109.7	113.3	115.3
128.5°	8.9	14.2	24.8	43.5	71.1	68.4	92.1	111.6	110.0	113.4	115.3
129°	8.9	14.3	24.9	43.7	71.2	68.3	91.7	111.8	110.3	113.6	115.3
129.5°	9.0	14.4	24.9	43.9	71.3	68.2	91.4	112.0	110.6	113.7	115.2
130°	9.1	14.5	25.0	44.1	71.3	68.1	91.1	112.2	111.0	113.7	115.2
130.5°	9.1	14.5	25.1	44.4	71.4	68.0	90.8	112.3	111.3	113.7	115.1
131°	9.2	14.6	25.2	44.6	71.5	67.9	90.5	112.4	111.6	113.7	115.0
131.5°	9.2	14.7	25.3	44.9	71.5	67.9	90.1	112.3	111.9	113.6	114.8
132°	9.3	14.8	25.4	45.1	71.6	67.7	89.8	112.3	112.1	113.5	114.6
132.5°	9.3	14.8	25.5	45.3	71.5	67.6	89.5	112.2	112.3	113.4	114.2
133°	9.3	14.9	25.6	45.6	71.5	67.5	89.1	112.0	112.4	113.2	113.9
133.5°	9.4	15.0	25.7	45.8	71.4	67.3	88.6	111.7	112.5	113.0	113.4
134°	9.4	15.1	25.8	46.1	71.3	67.1	88.0	111.3	112.6	112.7	112.9
134.5°	9.5	15.2	25.9	46.3	71.1	66.9	87.5	110.8	112.5	112.4	112.3



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	9.5	15.2	26.1	46.5	70.9	66.6	86.9	110.4	112.4	112.1	111.8
135.5°	9.5	15.3	26.2	46.6	70.6	66.3	86.3	109.9	112.2	111.7	111.1
136°	9.6	15.4	26.3	46.8	70.2	66.0	85.6	109.2	111.9	111.2	110.3
136.5°	9.6	15.4	26.4	47.0	69.9	65.6	84.9	108.4	111.5	110.7	109.5
137°	9.6	15.5	26.4	47.1	69.4	65.2	84.1	107.7	111.1	110.1	108.6
137.5°	9.6	15.6	26.5	47.2	68.9	64.8	83.3	106.8	110.5	109.4	107.7
138°	9.7	15.6	26.5	47.2	68.3	64.3	82.4	105.8	109.8	108.7	106.8
138.5°	9.7	15.6	26.6	47.2	67.8	63.7	81.5	104.7	109.0	108.0	105.9
139°	9.7	15.7	26.6	47.2	67.1	63.2	80.6	103.7	108.2	107.1	105.0
139.5°	9.7	15.7	26.6	47.1	66.3	62.6	79.6	102.4	107.3	106.2	104.1
140°	9.7	15.7	26.6	47.0	65.6	62.0	78.6	101.2	106.2	105.3	103.3
140.5°	9.7	15.7	26.5	46.9	64.7	61.3	77.4	99.8	105.1	104.2	102.4
141°	9.7	15.7	26.5	46.7	63.8	60.6	76.3	98.4	103.9	103.0	101.5
141.5°	9.7	15.6	26.4	46.5	62.8	59.8	75.1	96.9	102.6	101.7	100.6
142°	9.6	15.6	26.3	46.2	61.9	59.0	73.9	95.3	101.2	100.5	99.8
142.5°	9.6	15.5	26.2	45.9	60.8	58.1	72.5	93.7	99.7	99.0	98.9
143°	9.6	15.4	26.1	45.5	59.7	57.2	71.1	92.0	98.1	97.6	98.1
143.5°	9.6	15.4	25.9	45.0	58.6	56.3	69.7	90.2	96.5	96.1	97.2
144°	9.5	15.3	25.7	44.6	57.4	55.2	68.3	88.4	94.8	94.6	96.2
144.5°	9.5	15.2	25.6	44.0	56.2	54.2	66.8	86.5	92.9	93.1	95.2
145°	9.4	15.1	25.4	43.5	54.9	53.2	65.3	84.6	91.1	91.6	94.1
145.5°	9.3	15.0	25.1	42.9	53.7	52.0	63.7	82.6	89.3	90.1	93.1
146°	9.2	14.8	24.9	42.2	52.4	50.9	62.1	80.5	87.4	88.6	91.8
146.5°	9.1	14.6	24.6	41.5	51.0	49.7	60.4	78.4	85.4	87.0	90.6
147°	9.0	14.5	24.4	40.7	49.6	48.5	58.8	76.3	83.4	85.5	89.2
147.5°	8.9	14.3	24.1	39.9	48.3	47.3	57.1	74.2	81.4	83.9	87.8
148°	8.8	14.1	23.8	39.0	46.9	46.1	55.4	71.9	79.4	82.4	86.3
148.5°	8.7	13.9	23.5	38.1	45.5	44.9	53.7	69.7	77.4	80.9	84.9
149°	8.5	13.7	23.1	37.2	44.1	43.6	52.0	67.5	75.4	79.4	83.4
149.5°	8.4	13.5	22.7	36.2	42.6	42.3	50.2	65.1	73.4	77.7	81.8
150°	8.2	13.3	22.3	35.2	41.3	41.1	48.4	62.8	71.3	76.0	80.2
150.5°	8.1	13.1	21.9	34.1	39.8	39.8	46.6	60.5	69.1	74.4	78.6
151°	7.9	12.8	21.5	33.1	38.4	38.5	44.9	58.3	66.9	72.6	77.0
151.5°	7.7	12.6	21.0	32.1	37.0	37.2	43.2	56.1	64.7	70.9	75.4
152°	7.6	12.3	20.6	31.0	35.6	35.9	41.5	53.9	62.6	69.1	73.7
152.5°	7.4	12.0	20.1	30.0	34.3	34.7	39.8	51.7	60.3	67.3	72.0
153°	7.2	11.7	19.6	28.9	32.9	33.4	38.1	49.5	58.1	65.4	70.2
153.5°	7.0	11.4	19.1	27.8	31.6	32.2	36.5	47.4	55.8	63.6	68.4
154°	6.8	11.1	18.5	26.8	30.3	30.9	34.9	45.2	53.5	61.8	66.5
154.5°	6.6	10.7	18.0	25.6	29.0	29.7	33.3	43.1	51.2	59.9	64.7
155°	6.4	10.4	17.4	24.6	27.8	28.5	31.8	41.0	48.8	57.9	62.8
155.5°	6.2	10.0	16.8	23.5	26.6	27.3	30.3	39.0	46.5	55.8	60.9
156°	5.9	9.7	16.1	22.5	25.3	26.1	28.7	37.0	44.2	53.2	59.1
156.5°	5.7	9.3	15.4	21.4	24.1	25.0	27.4	35.0	41.9	50.6	57.3
157°	5.6	8.9	14.7	20.4	23.0	23.9	26.0	33.2	39.6	48.1	55.4



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.5	8.5	14.0	19.4	21.9	22.8	24.6	31.3	37.2	45.6	53.6
158°	5.4	8.1	13.3	18.4	20.8	21.7	23.3	29.5	34.9	43.0	51.8
158.5°	5.4	7.7	12.6	17.5	19.7	20.7	22.0	27.7	32.6	40.4	49.8
159°	5.3	7.3	12.0	16.5	18.7	19.7	20.8	26.0	30.3	37.8	47.1
159.5°	5.3	6.8	11.3	15.6	17.7	18.6	19.6	24.4	28.5	35.3	44.2
160°	5.2	6.5	10.6	14.7	16.7	17.7	18.4	22.7	26.6	32.8	41.3
160.5°	5.2	6.2	10.0	13.8	15.8	16.7	17.3	21.2	25.0	30.4	38.5
161°	5.2	5.9	9.4	12.9	14.8	15.8	16.3	19.8	23.3	28.0	35.7
161.5°	5.2	5.8	8.8	12.0	13.8	14.9	15.4	18.4	21.7	25.6	32.8
162°	5.1	5.6	8.1	11.3	12.9	13.9	14.4	17.2	20.1	23.1	30.0
162.5°	5.1	5.5	7.6	10.5	12.1	13.0	13.4	16.0	18.7	20.7	27.4
163°	5.1	5.3	7.1	9.7	11.3	12.2	12.4	14.8	17.4	18.5	24.8
163.5°	5.0	5.2	6.7	9.0	10.6	11.4	11.6	13.6	16.1	17.2	22.4
164°	5.0	5.0	6.3	8.4	9.8	10.7	10.9	12.3	14.8	16.0	20.2
164.5°	5.0	4.9	5.9	7.7	9.2	10.0	10.2	11.4	13.5	14.7	18.0
165°	5.0	4.9	5.6	7.2	8.5	9.3	9.5	10.5	12.2	13.5	15.8
165.5°	5.0	4.9	5.4	6.7	7.9	8.6	8.8	9.6	11.1	12.2	13.7
166°	5.0	4.9	5.1	6.2	7.4	8.1	8.2	8.8	10.2	11.2	11.5
166.5°	5.0	4.9	5.0	5.9	6.8	7.5	7.7	8.1	9.4	10.3	10.7
167°	5.0	4.9	4.9	5.5	6.4	7.0	7.2	7.5	8.6	9.4	10.1
167.5°	5.0	5.0	4.9	5.2	5.9	6.5	6.7	6.9	7.9	8.7	9.5
168°	5.0	4.9	4.9	5.0	5.6	6.1	6.3	6.4	7.2	8.0	9.0
168.5°	5.0	4.9	4.9	4.9	5.2	5.7	5.8	5.8	6.6	7.5	8.5
169°	5.0	4.9	4.9	4.9	5.0	5.3	5.4	5.4	6.1	7.2	8.0
169.5°	5.0	4.9	4.9	4.9	4.9	5.0	5.1	5.0	5.9	6.9	7.6
170°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.7	6.6	7.3
170.5°	4.9	4.8	4.8	4.9	4.9	4.9	4.9	5.0	5.6	6.3	6.9
171°	4.9	4.8	4.8	4.9	4.9	4.9	4.9	5.0	5.5	6.1	6.7
171.5°	4.8	4.8	4.8	4.8	4.9	4.9	5.0	5.0	5.4	6.0	6.4
172°	4.8	4.8	4.8	4.8	4.9	4.9	5.0	5.0	5.3	5.8	6.2
172.5°	4.8	4.8	4.8	4.8	4.9	4.9	5.0	5.1	5.2	5.7	6.0
173°	4.7	4.7	4.8	4.8	4.9	4.9	5.0	5.1	5.2	5.5	5.8
173.5°	4.7	4.7	4.7	4.8	4.8	4.9	5.0	5.1	5.1	5.5	5.7
174°	4.7	4.7	4.7	4.8	4.8	4.9	5.0	5.1	5.2	5.4	5.6
174.5°	4.7	4.7	4.7	4.8	4.8	4.9	5.0	5.1	5.2	5.3	5.5
175°	4.7	4.6	4.7	4.8	4.8	4.9	5.0	5.1	5.2	5.3	5.5
175.5°	4.6	4.6	4.7	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4
176°	4.6	4.6	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4
176.5°	4.5	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.3
177°	4.5	4.5	4.5	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4
177.5°	4.5	4.4	4.5	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.4
178°	4.4	4.4	4.5	4.6	4.7	4.8	4.9	5.1	5.2	5.3	5.4
178.5°	4.4	4.4	4.4	4.5	4.7	4.8	4.9	5.1	5.2	5.3	5.4
179°	4.3	4.3	4.4	4.5	4.6	4.8	4.9	5.1	5.2	5.3	5.4
179.5°	4.3	4.3	4.4	4.5	4.6	4.8	4.9	5.1	5.3	5.4	5.5



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



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 CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	4374.5	4374.5	4374.5	4374.5
0.5°	4446.9	4455.7	4457.0	4443.0
1°	4487.1	4486.8	4481.9	4399.2
1.5°	4429.3	4397.8	4377.1	4241.9
2°	4293.6	4235.0	4201.2	4044.0
2.5°	4111.1	4052.7	4021.5	3928.4
3°	3990.3	3960.8	3955.1	3925.4
3.5°	3951.6	3958.9	3973.6	3954.9
4°	3973.2	3991.6	3987.7	3913.8
4.5°	3986.8	3955.5	3904.6	3756.9
5°	3925.4	3820.2	3731.1	3575.5
5.5°	3780.4	3637.8	3575.8	3512.6
6°	3622.3	3554.1	3562.2	3602.8
6.5°	3556.8	3603.9	3687.6	3774.3
7°	3598.4	3750.0	3853.3	3897.9
7.5°	3730.4	3894.1	3941.8	3882.0
8°	3867.6	3936.1	3898.9	3765.2
8.5°	3942.5	3865.7	3786.2	3699.6
9°	3904.4	3772.4	3750.6	3774.6
9.5°	3818.4	3760.0	3850.0	3985.1
10°	3757.2	3871.5	4069.8	4212.4
10.5°	3793.3	4073.8	4279.6	4314.6
11°	3921.0	4270.3	4353.4	4267.1
11.5°	4118.5	4349.4	4300.7	4160.1
12°	4272.3	4301.3	4198.6	4138.2
12.5°	4326.4	4207.9	4184.5	4243.7
13°	4290.0	4173.7	4285.2	4390.4
13.5°	4202.6	4245.4	4425.1	4464.5
14°	4154.6	4365.2	4499.9	4475.3
14.5°	4201.7	4460.5	4520.1	4484.8
15°	4299.9	4508.1	4541.4	4545.8
15.5°	4394.0	4527.6	4611.9	4709.4
16°	4453.3	4568.9	4758.1	4931.5
16.5°	4486.7	4671.6	4977.2	5172.5
17°	4512.4	4844.4	5212.6	5380.1
17.5°	4562.8	5072.0	5440.4	5539.2
18°	4671.6	5297.5	5609.5	5662.2
18.5°	4838.9	5487.8	5732.2	5787.3
19°	5043.2	5632.2	5852.8	5946.4
19.5°	5253.0	5744.9	6008.5	6147.6
20°	5414.4	5854.8	6201.8	6355.7
20.5°	5544.5	6008.8	6394.3	6528.6
21°	5642.8	6191.9	6554.7	6660.9
21.5°	5741.2	6365.9	6683.5	6761.1
22°	5869.8	6495.4	6779.9	6835.9



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	6022.0	6588.7	6853.2	6872.8
23°	6171.1	6669.3	6894.9	6886.4
23.5°	6295.2	6730.2	6899.8	6878.8
24°	6378.3	6773.2	6882.8	6855.3
24.5°	6421.4	6770.9	6856.6	6832.3
25°	6465.6	6748.6	6840.9	6797.4
25.5°	6515.9	6715.2	6828.3	6760.6
26°	6533.2	6697.3	6800.8	6718.4
26.5°	6531.6	6692.0	6757.9	6690.1
27°	6510.4	6672.7	6707.8	6668.5
27.5°	6470.8	6627.4	6684.4	6619.9
28°	6445.5	6560.3	6658.4	6561.7
28.5°	6427.8	6511.3	6618.9	6494.7
29°	6404.4	6497.2	6556.6	6431.4
29.5°	6371.0	6480.9	6479.9	6366.3
30°	6317.6	6426.6	6409.5	6315.3
30.5°	6257.8	6336.8	6355.1	6261.6
31°	6217.5	6263.6	6315.6	6203.5
31.5°	6186.9	6214.6	6272.4	6140.0
32°	6152.3	6184.5	6202.6	6071.4
32.5°	6088.8	6142.1	6114.1	6017.6
33°	6006.6	6076.2	6039.1	5956.4
33.5°	5944.4	5995.6	5976.8	5870.1
34°	5897.7	5922.8	5912.5	5766.6
34.5°	5850.7	5861.6	5824.3	5682.9
35°	5788.2	5814.6	5744.8	5626.8
35.5°	5711.9	5762.6	5679.8	5592.8
36°	5640.7	5700.6	5634.4	5575.5
36.5°	5583.2	5635.1	5614.6	5579.6
37°	5534.0	5586.3	5606.8	5600.5
37.5°	5495.5	5550.4	5617.3	5625.1
38°	5454.2	5536.5	5637.7	5662.3
38.5°	5410.1	5535.7	5671.2	5700.0
39°	5362.4	5540.6	5712.3	5744.7
39.5°	5319.5	5562.5	5758.8	5788.4
40°	5292.3	5592.4	5809.2	5831.9
40.5°	5275.0	5630.3	5862.2	5873.5
41°	5268.7	5670.9	5910.4	5909.1
41.5°	5267.7	5710.7	5942.7	5943.9
42°	5281.1	5742.0	5971.4	5963.6
42.5°	5297.0	5770.6	6001.3	5997.3
43°	5305.9	5792.0	6037.7	6034.0
43.5°	5320.5	5810.0	6066.1	6061.9
44°	5336.0	5832.8	6084.9	6081.7
44.5°	5347.9	5847.1	6112.5	6077.1



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	5361.3	5858.1	6118.8	6068.6
45.5°	5373.3	5869.4	6107.0	6032.2
46°	5382.5	5872.4	6085.5	5994.7
46.5°	5384.5	5869.5	6036.1	5928.8
47°	5388.3	5848.2	5987.0	5872.8
47.5°	5384.5	5822.7	5932.1	5809.6
48°	5374.9	5773.0	5878.3	5767.5
48.5°	5365.2	5723.8	5828.2	5716.0
49°	5346.2	5669.8	5763.8	5648.2
49.5°	5324.7	5623.7	5696.9	5569.9
50°	5294.0	5565.9	5615.0	5492.3
50.5°	5267.5	5513.1	5537.4	5431.0
51°	5218.2	5452.4	5461.8	5379.1
51.5°	5169.2	5378.9	5400.5	5334.2
52°	5114.5	5307.0	5340.4	5288.0
52.5°	5064.0	5241.7	5290.9	5246.7
53°	5015.4	5183.3	5238.9	5189.6
53.5°	4963.5	5129.1	5177.3	5132.4
54°	4910.8	5069.3	5121.9	5080.7
54.5°	4849.5	5019.6	5065.6	5022.6
55°	4789.3	4964.6	5005.9	4948.4
55.5°	4733.4	4910.6	4923.6	4858.1
56°	4685.5	4839.4	4831.6	4764.3
56.5°	4632.7	4762.0	4732.5	4659.5
57°	4566.4	4673.5	4641.5	4575.4
57.5°	4491.9	4595.3	4555.1	4498.2
58°	4418.9	4500.3	4470.8	4414.7
58.5°	4349.0	4416.6	4386.6	4334.1
59°	4272.4	4329.5	4299.8	4242.5
59.5°	4185.9	4237.9	4205.0	4138.5
60°	4098.8	4143.2	4103.5	4017.5
60.5°	4011.2	4053.0	3996.8	3900.5
61°	3923.3	3949.1	3880.6	3784.8
61.5°	3839.5	3848.3	3771.2	3676.7
62°	3744.3	3741.9	3663.8	3584.1
62.5°	3653.5	3642.8	3566.3	3502.1
63°	3564.2	3547.3	3491.6	3443.2
63.5°	3472.1	3464.4	3423.2	3388.0
64°	3382.9	3379.7	3359.0	3327.4
64.5°	3302.4	3311.8	3292.1	3261.7
65°	3226.2	3244.9	3224.4	3196.5
65.5°	3150.5	3170.8	3147.1	3107.7
66°	3077.9	3091.7	3065.0	3007.4
66.5°	3005.6	3012.8	2979.7	2911.1
67°	2928.3	2926.1	2886.0	2821.3



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	2853.3	2835.1	2794.7	2738.2
68°	2773.2	2745.5	2720.0	2663.6
68.5°	2686.2	2666.2	2648.9	2590.9
69°	2600.2	2586.3	2577.3	2523.4
69.5°	2520.7	2511.8	2506.3	2448.5
70°	2442.0	2434.8	2429.2	2365.1
70.5°	2364.9	2359.1	2349.1	2283.2
71°	2286.8	2283.8	2270.3	2203.7
71.5°	2210.8	2203.7	2189.0	2124.4
72°	2132.0	2126.7	2109.2	2053.0
72.5°	2056.6	2052.5	2033.6	1981.9
73°	1983.0	1971.7	1956.4	1903.9
73.5°	1910.2	1890.9	1877.3	1825.3
74°	1834.7	1816.5	1796.7	1748.4
74.5°	1755.3	1742.6	1715.1	1659.2
75°	1681.3	1658.8	1635.7	1572.7
75.5°	1605.3	1581.1	1556.4	1487.7
76°	1529.4	1503.4	1477.1	1402.4
76.5°	1453.4	1425.6	1397.8	1321.3
77°	1377.5	1347.9	1318.5	1244.7
77.5°	1301.8	1270.2	1237.3	1168.5
78°	1232.4	1196.0	1161.9	1096.2
78.5°	1162.1	1123.3	1087.0	1028.8
79°	1090.0	1051.4	1016.7	963.8
79.5°	1019.5	977.9	950.2	897.5
80°	948.3	911.9	889.6	842.0
80.5°	882.7	850.1	830.0	787.3
81°	821.1	793.6	776.8	736.0
81.5°	760.1	741.9	729.5	691.0
82°	705.8	692.6	682.6	647.3
82.5°	653.3	644.1	634.9	603.5
83°	604.8	602.1	593.2	559.7
83.5°	560.9	558.9	551.2	516.0
84°	520.6	515.5	508.9	472.2
84.5°	483.1	476.6	469.9	435.6
85°	448.2	441.5	433.2	400.7
85.5°	414.7	405.6	399.3	370.8
86°	383.9	374.4	369.2	343.4
86.5°	355.4	346.2	340.4	318.5
87°	329.0	319.6	315.3	296.2
87.5°	303.2	297.0	294.7	277.1
88°	281.4	276.3	275.4	259.5
88.5°	261.0	257.5	257.9	244.6
89°	243.8	242.1	243.2	231.1
89.5°	227.8	227.7	229.5	219.0



REPORT NUMBER: P973045
 CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	213.9	215.0	217.2	208.7
90.5°	201.7	204.7	207.5	199.5
91°	191.9	195.5	198.6	191.4
91.5°	182.6	187.4	190.6	184.8
92°	173.7	180.1	184.4	178.8
92.5°	168.6	172.7	177.5	171.9
93°	163.5	165.7	170.6	165.5
93.5°	158.4	162.4	165.1	161.1
94°	153.3	159.0	162.6	157.9
94.5°	148.3	155.7	160.0	155.2
95°	145.4	152.4	157.5	153.2
95.5°	143.2	150.0	154.9	151.2
96°	140.9	147.9	152.4	148.9
96.5°	139.1	146.3	150.7	147.5
97°	137.5	144.9	149.3	146.5
97.5°	136.1	143.7	148.2	145.7
98°	135.0	142.7	147.3	144.7
98.5°	134.0	141.8	146.3	143.6
99°	133.0	140.9	145.2	142.9
99.5°	132.1	139.9	144.4	142.0
100°	131.3	139.0	143.3	140.8
100.5°	130.5	138.1	142.3	139.7
101°	128.9	137.2	141.3	138.6
101.5°	127.6	135.1	139.5	136.1
102°	127.3	133.3	136.8	134.0
102.5°	127.7	133.0	135.3	133.0
103°	127.5	133.5	135.3	133.4
103.5°	127.1	133.2	135.6	133.3
104°	126.7	132.4	135.0	132.8
104.5°	126.3	131.8	134.3	131.9
105°	126.0	131.2	133.4	131.1
105.5°	125.7	130.7	132.7	130.3
106°	125.4	130.2	131.9	129.5
106.5°	125.2	129.8	131.3	128.9
107°	125.0	129.4	130.9	128.4
107.5°	124.8	129.0	130.4	127.9
108°	124.4	128.6	129.9	127.3
108.5°	123.9	128.1	129.3	126.5
109°	123.3	127.4	128.4	125.6
109.5°	122.7	126.6	127.6	124.6
110°	122.0	125.8	126.7	123.4
110.5°	121.4	125.0	125.7	122.3
111°	120.8	124.2	124.6	121.2
111.5°	120.2	123.4	123.7	120.2
112°	119.7	122.6	122.8	119.2



REPORT NUMBER: P973045
 CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	119.1	121.9	121.9	118.1
113°	118.6	121.1	120.9	117.2
113.5°	118.1	120.3	120.1	116.4
114°	117.8	119.5	119.2	115.7
114.5°	117.5	118.9	118.4	115.0
115°	117.4	118.4	117.7	114.2
115.5°	117.3	117.9	117.0	113.5
116°	117.2	117.5	116.4	112.7
116.5°	117.2	117.4	115.9	112.1
117°	117.1	117.2	115.5	111.7
117.5°	117.1	117.2	115.2	111.3
118°	117.1	117.1	115.0	111.1
118.5°	117.1	117.1	114.9	110.9
119°	117.1	117.1	114.7	110.8
119.5°	117.1	117.1	114.7	110.8
120°	116.9	117.2	114.7	110.9
120.5°	116.8	117.2	114.9	111.1
121°	116.8	117.2	115.0	111.3
121.5°	116.8	117.1	115.0	111.4
122°	116.7	117.1	115.0	111.5
122.5°	116.7	117.2	115.0	111.7
123°	116.7	117.2	115.0	111.9
123.5°	116.7	117.2	115.1	112.1
124°	116.6	117.2	115.2	112.3
124.5°	116.6	117.3	115.4	112.6
125°	116.6	117.4	115.5	112.8
125.5°	116.6	117.5	115.6	113.1
126°	116.7	117.6	115.8	113.4
126.5°	116.8	117.7	116.0	113.7
127°	116.8	117.8	116.1	113.7
127.5°	116.8	118.0	116.0	113.8
128°	116.9	118.2	116.1	113.8
128.5°	117.0	118.3	116.1	113.8
129°	117.1	118.4	116.1	113.8
129.5°	117.1	118.5	116.0	113.8
130°	117.1	118.6	116.0	113.7
130.5°	117.1	118.6	115.9	113.6
131°	117.0	118.6	115.9	113.5
131.5°	116.9	118.6	115.8	113.3
132°	116.9	118.4	115.7	113.2
132.5°	116.7	118.2	115.4	112.9
133°	116.5	118.0	115.1	112.5
133.5°	116.2	117.8	114.7	112.0
134°	115.9	117.4	114.2	111.4
134.5°	115.6	117.0	113.7	110.7



REPORT NUMBER: P973045
 CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	115.1	116.5	113.0	110.0
135.5°	114.6	116.0	112.5	109.1
136°	114.1	115.4	111.9	108.4
136.5°	113.6	114.7	111.2	107.4
137°	112.9	114.0	110.4	106.4
137.5°	112.2	113.3	109.6	105.4
138°	111.3	112.6	108.7	104.2
138.5°	110.3	111.8	107.7	103.1
139°	108.6	111.0	106.9	102.0
139.5°	107.8	110.1	106.0	101.2
140°	107.1	109.0	105.1	100.1
140.5°	106.4	107.9	104.2	99.2
141°	105.7	106.3	103.2	98.0
141.5°	104.9	104.9	101.9	96.6
142°	104.1	104.2	100.6	95.2
142.5°	103.2	103.5	98.3	92.2
143°	102.2	102.7	97.2	91.3
143.5°	101.2	101.9	96.4	90.7
144°	100.2	101.1	95.5	89.9
144.5°	99.0	100.2	94.6	89.2
145°	97.9	99.2	93.7	88.5
145.5°	96.7	98.2	92.7	87.7
146°	95.4	97.1	91.7	86.9
146.5°	94.1	96.1	90.7	86.0
147°	92.9	94.9	89.6	85.1
147.5°	91.4	93.7	88.5	84.2
148°	90.0	92.4	87.4	83.3
148.5°	88.7	91.1	86.3	82.3
149°	87.2	89.6	85.1	81.3
149.5°	85.7	88.2	83.9	80.2
150°	84.1	86.8	82.6	79.2
150.5°	82.4	85.2	81.4	78.1
151°	80.8	83.7	80.1	77.0
151.5°	79.3	82.1	78.9	75.7
152°	77.6	80.4	77.4	74.4
152.5°	76.0	78.8	76.0	73.1
153°	74.3	77.1	74.5	71.6
153.5°	72.6	75.3	73.0	71.1
154°	70.8	73.6	71.5	69.7
154.5°	69.1	71.9	70.1	68.3
155°	67.3	70.1	68.6	67.0
155.5°	65.5	68.4	67.1	65.6
156°	63.8	66.6	65.6	64.1
156.5°	61.9	64.8	64.1	62.7
157°	59.9	63.0	62.5	61.2



REPORT NUMBER: P973045
 CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	58.1	61.2	61.1	59.7
158°	56.3	59.2	59.4	58.2
158.5°	54.4	57.2	57.8	56.5
159°	52.6	55.4	56.1	54.8
159.5°	50.8	53.5	54.5	53.1
160°	48.8	51.7	52.7	51.4
160.5°	46.9	49.9	51.0	49.8
161°	44.5	48.1	49.4	48.1
161.5°	41.3	46.2	47.8	46.5
162°	38.2	44.3	46.1	44.8
162.5°	35.1	41.7	44.4	43.0
163°	31.9	38.1	42.4	41.2
163.5°	29.0	34.9	39.6	38.2
164°	26.2	31.7	36.1	34.8
164.5°	23.6	28.5	32.8	31.5
165°	21.2	25.7	29.6	28.4
165.5°	18.9	23.0	26.5	25.4
166°	16.6	20.6	23.7	22.6
166.5°	14.4	18.2	21.1	20.0
167°	12.1	15.9	18.7	17.6
167.5°	9.9	13.5	16.2	15.2
168°	9.4	11.1	13.8	12.6
168.5°	8.9	8.8	11.3	10.0
169°	8.4	8.4	9.0	7.6
169.5°	8.0	8.1	8.3	7.2
170°	7.6	7.7	8.1	6.9
170.5°	7.3	7.4	7.8	6.5
171°	7.0	7.2	7.5	6.2
171.5°	6.7	7.0	7.3	5.9
172°	6.5	6.8	7.1	5.7
172.5°	6.2	6.5	6.9	5.4
173°	6.1	6.3	6.7	5.2
173.5°	5.9	6.1	6.5	5.1
174°	5.8	5.9	6.3	4.9
174.5°	5.7	5.8	6.1	4.8
175°	5.6	5.7	5.9	4.6
175.5°	5.5	5.7	5.8	4.5
176°	5.5	5.6	5.7	4.4
176.5°	5.4	5.6	5.7	4.3
177°	5.4	5.5	5.7	4.2
177.5°	5.4	5.6	5.7	4.3
178°	5.5	5.6	5.8	4.3
178.5°	5.5	5.6	5.8	4.3
179°	5.5	5.7	5.9	4.4
179.5°	5.6	5.8	6.0	4.5



REPORT NUMBER: P973045
CATALOG NUMBER: WP-6984-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
180°	4.6	4.6	4.6	4.6

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2410-249-3

Test Date: 10/24/2024

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

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

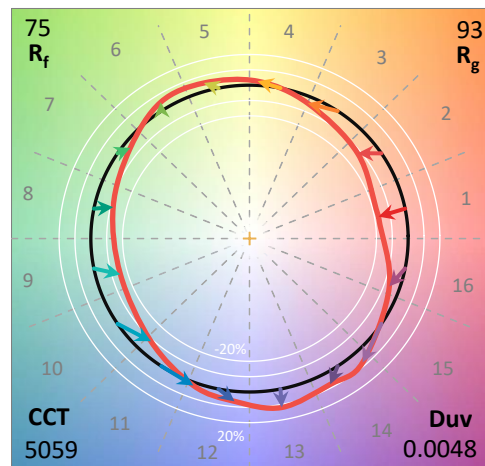
Test Information

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

Spectral Parameters

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

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



Test Conditions

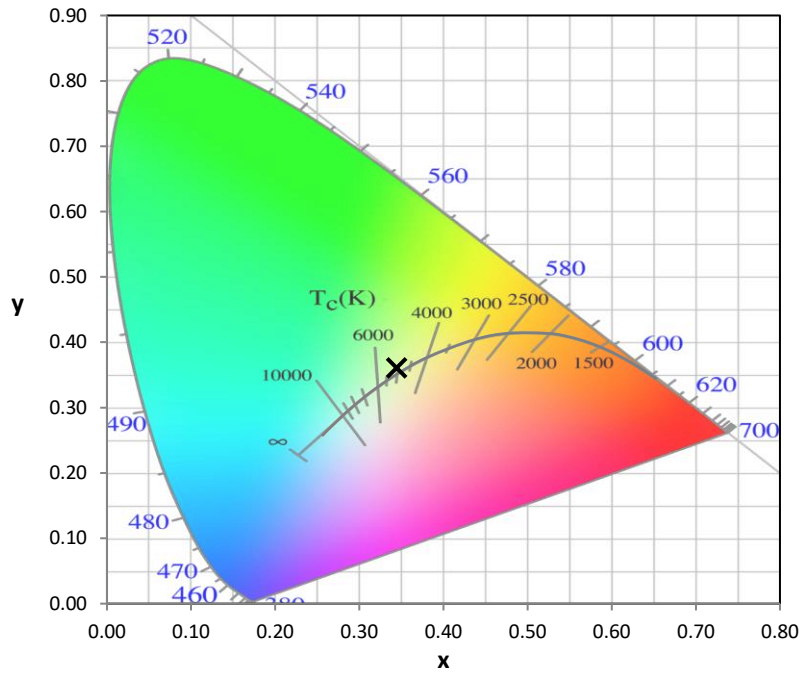
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-3

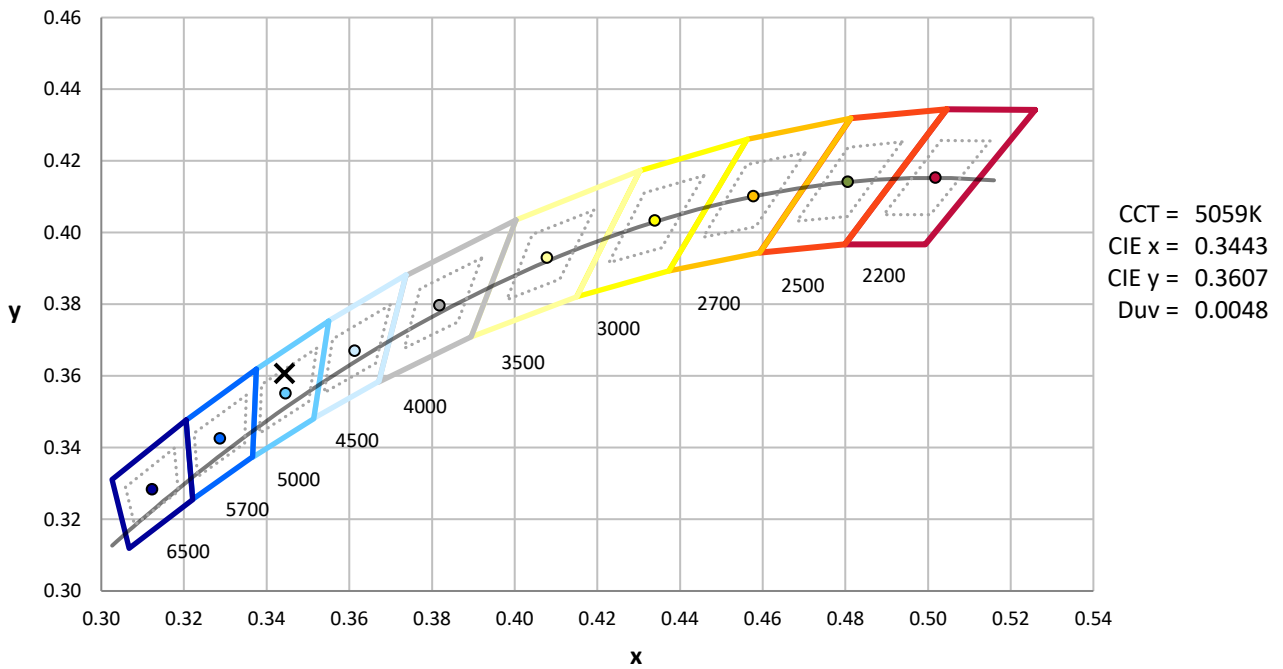
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2410-249-3

CIE 1931 Chromaticity Diagram



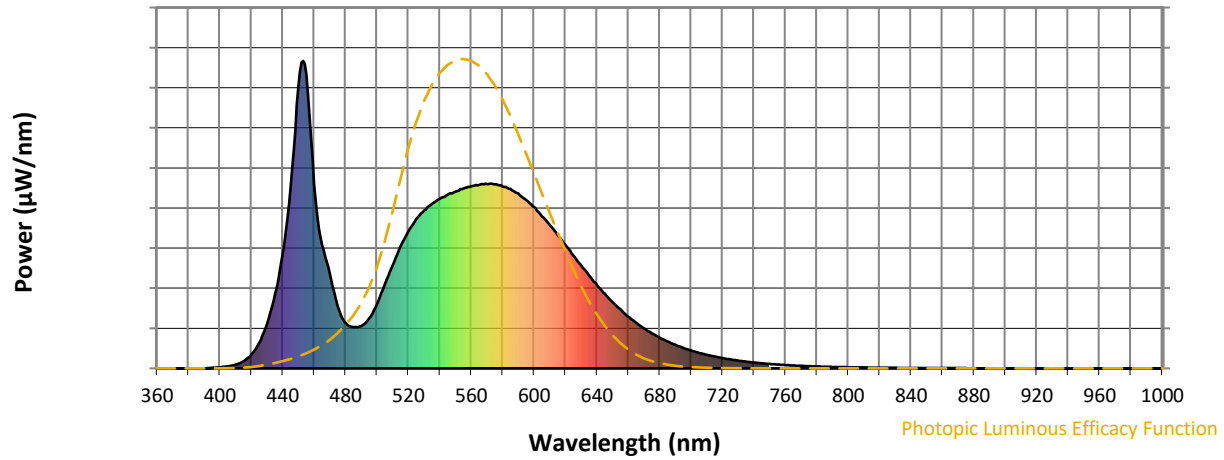
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-3

Photopic Flux vs. Wavelength

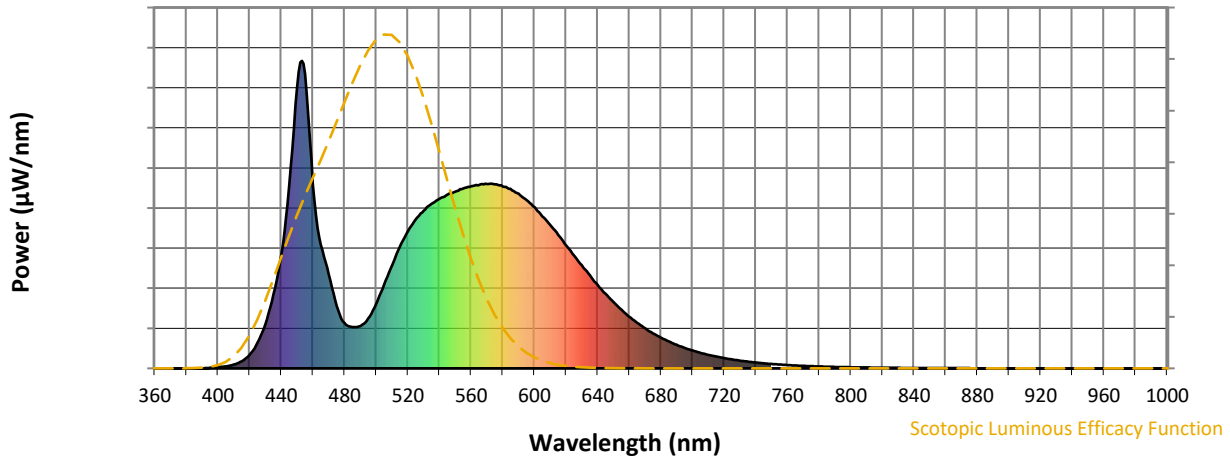


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2410-249-3

Scotopic Flux vs. Wavelength



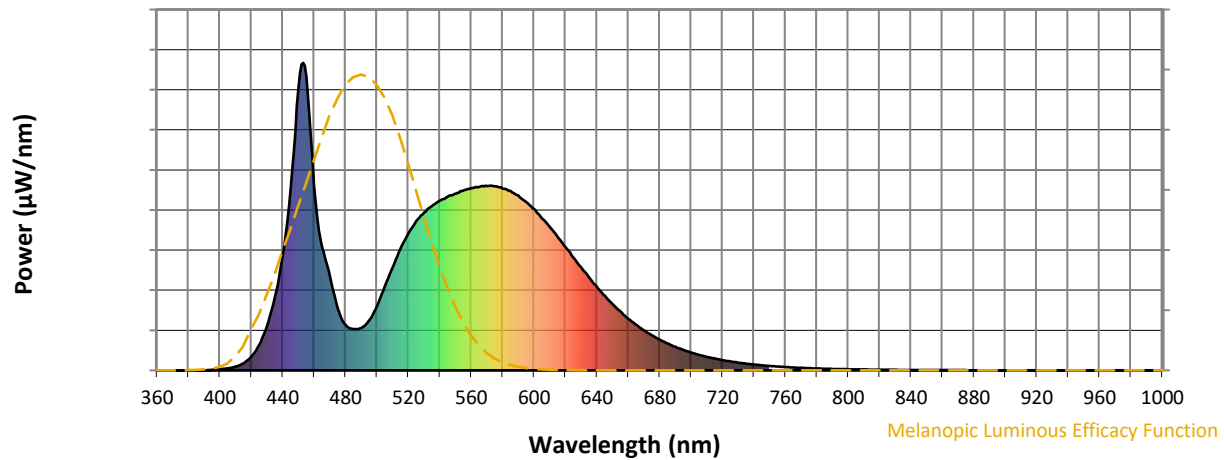
Scotopic Lumens: NR

S/P: 1.82

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

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Melanopic Flux vs. Wavelength



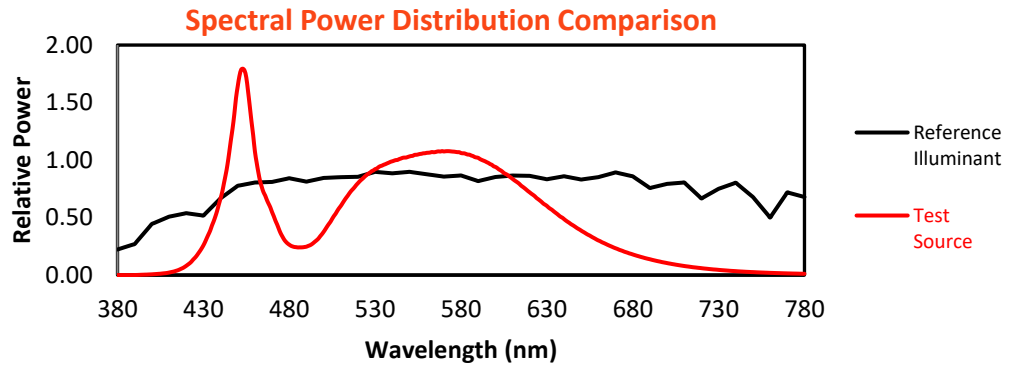
Melanopic Lumens: NR

M/P: 3.76

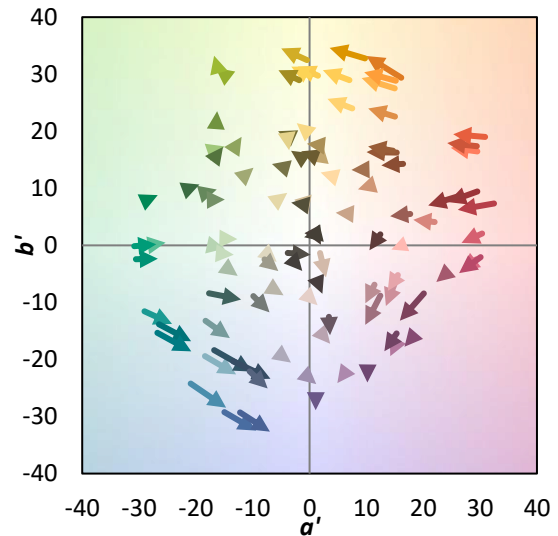
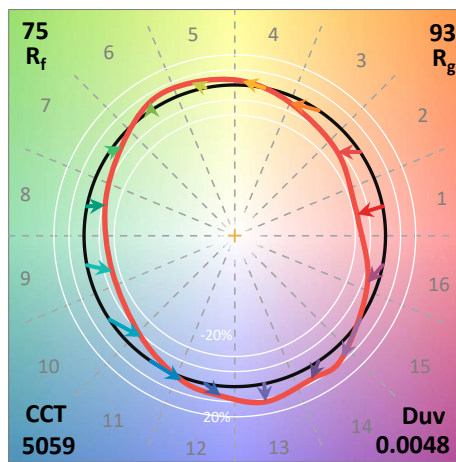
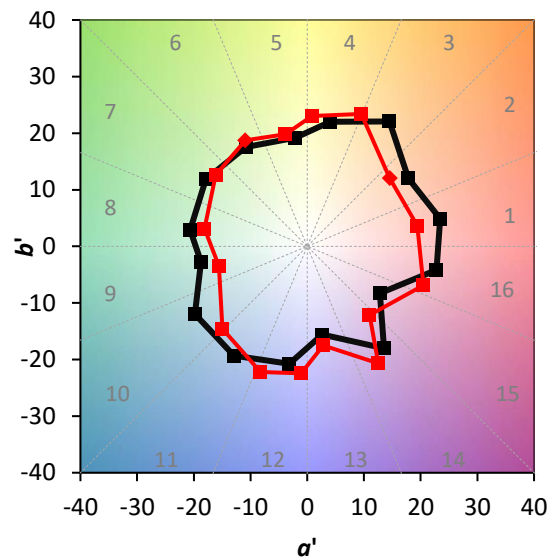
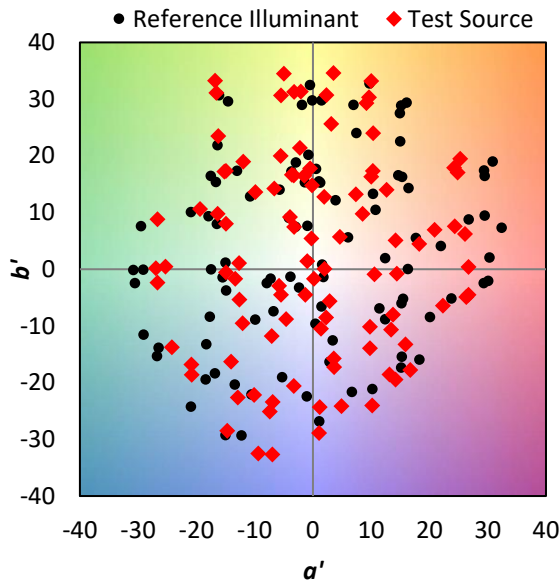
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	138	NR	620	401	NR	750	14	NR	880	1	NR
365	0	NR	495	162	NR	625	367	NR	755	12	NR	885	0	NR
370	0	NR	500	209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

Summary

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

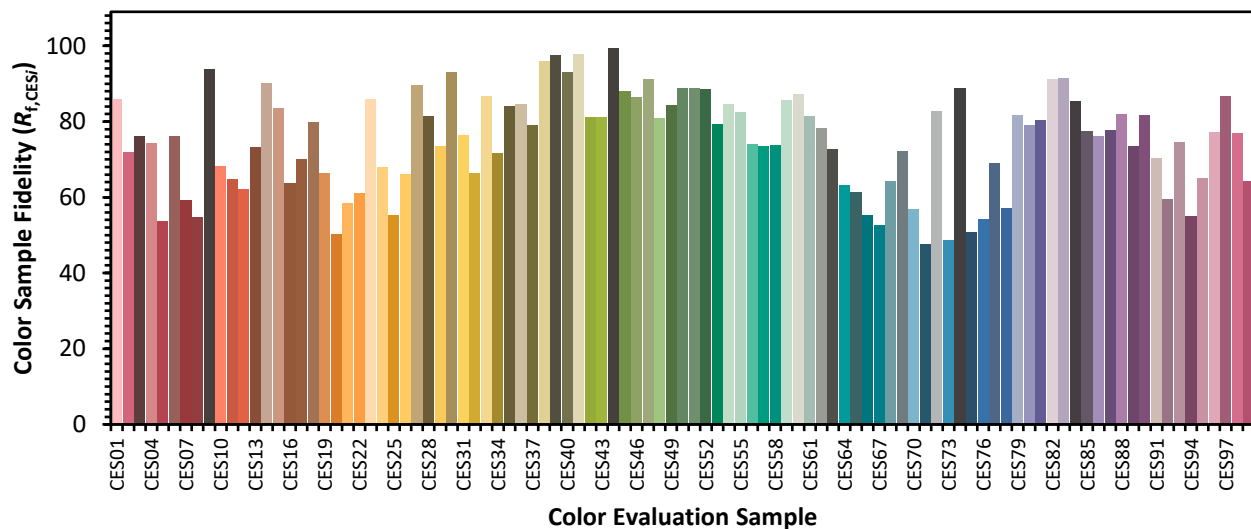


Color Vector Graphics

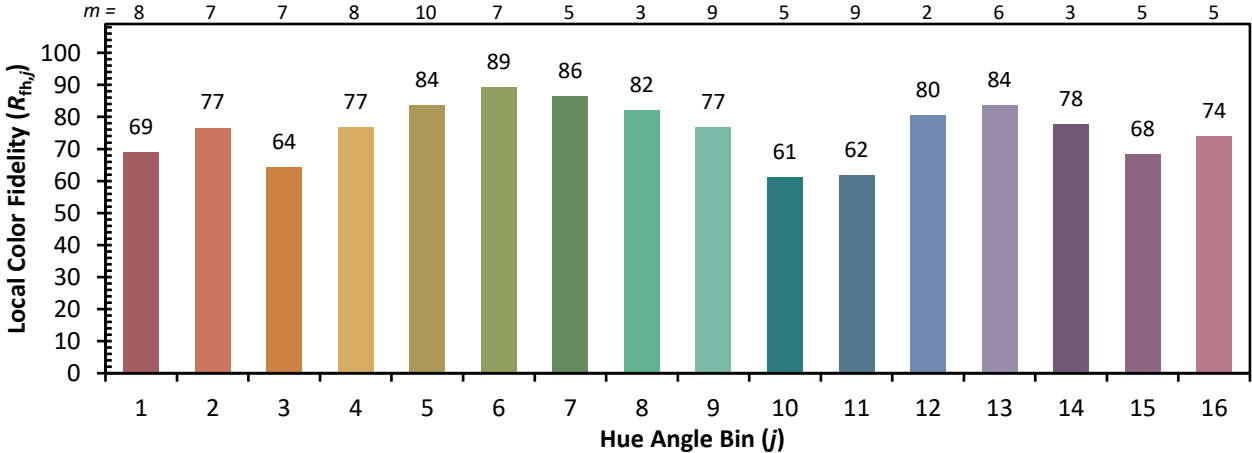
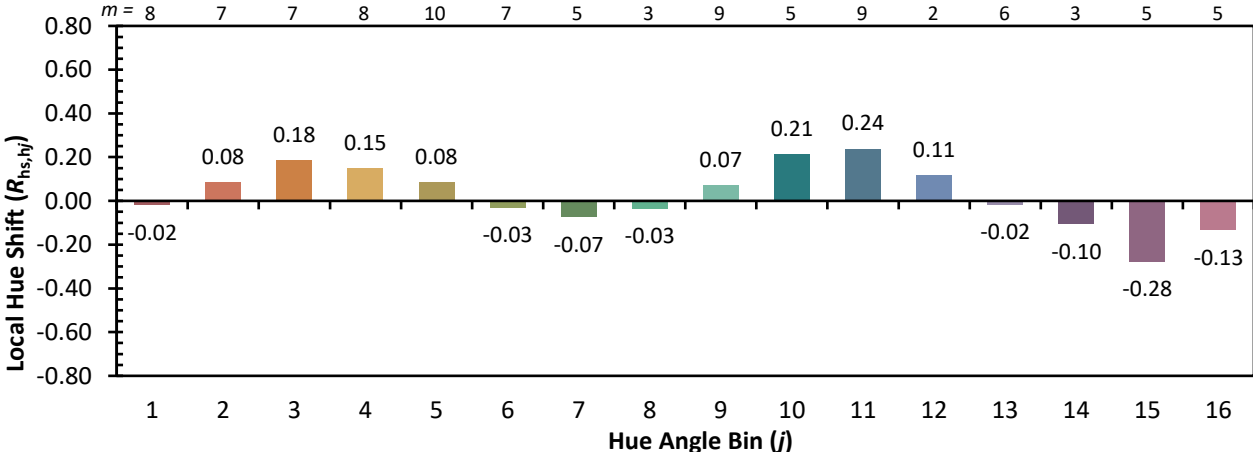
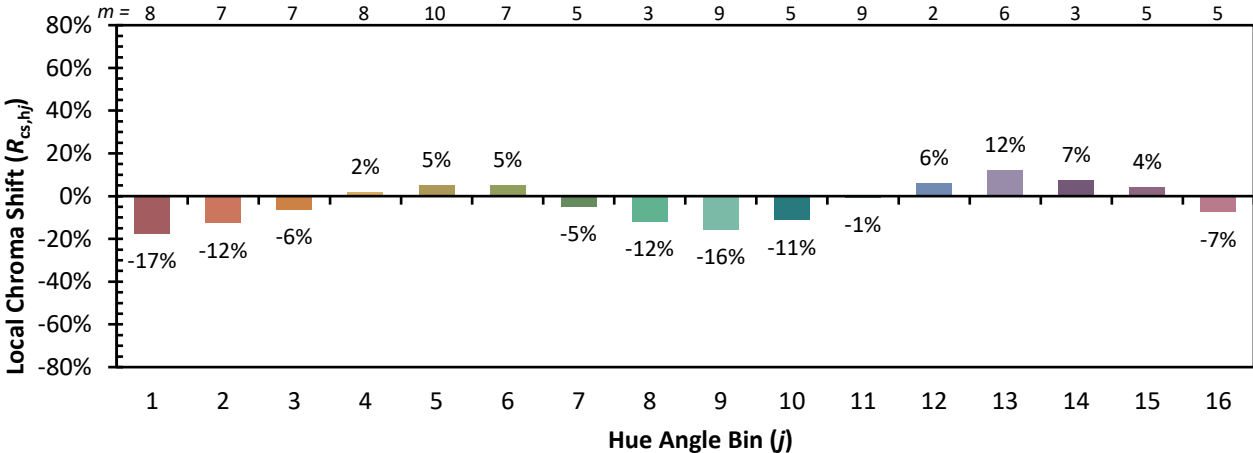


Individual Sample Fidelity Index ($R_{f,i}$)

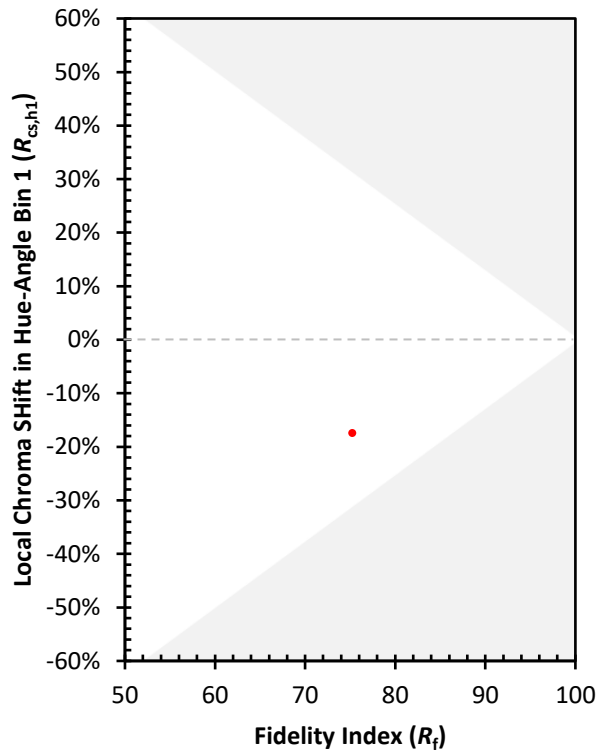
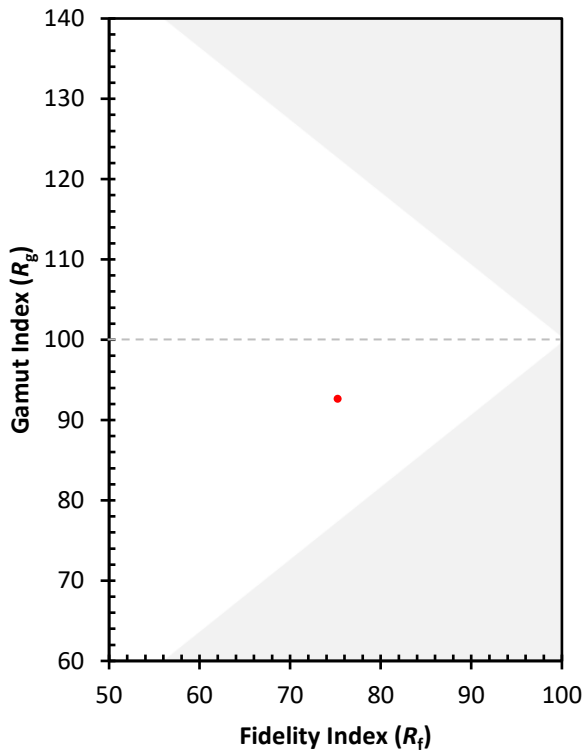
CES01 = 85	CES26 = 66	CES51 = 89	CES76 = 54
CES02 = 59	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 81	CES53 = 79	CES78 = 57
CES04 = 69	CES29 = 74	CES54 = 85	CES79 = 82
CES05 = 46	CES30 = 93	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 76	CES56 = 74	CES81 = 80
CES07 = 39	CES32 = 66	CES57 = 74	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)