

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: P973046

Luminaire Tested: **WP-6984-100W-3000K**

Issue Date: 03/12/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P973046  
Test Lab: LEADING TESTING LABORATORIES  
Issue Date: 03/12/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WP-6984-100W-3000K  
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @100W-3000K  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

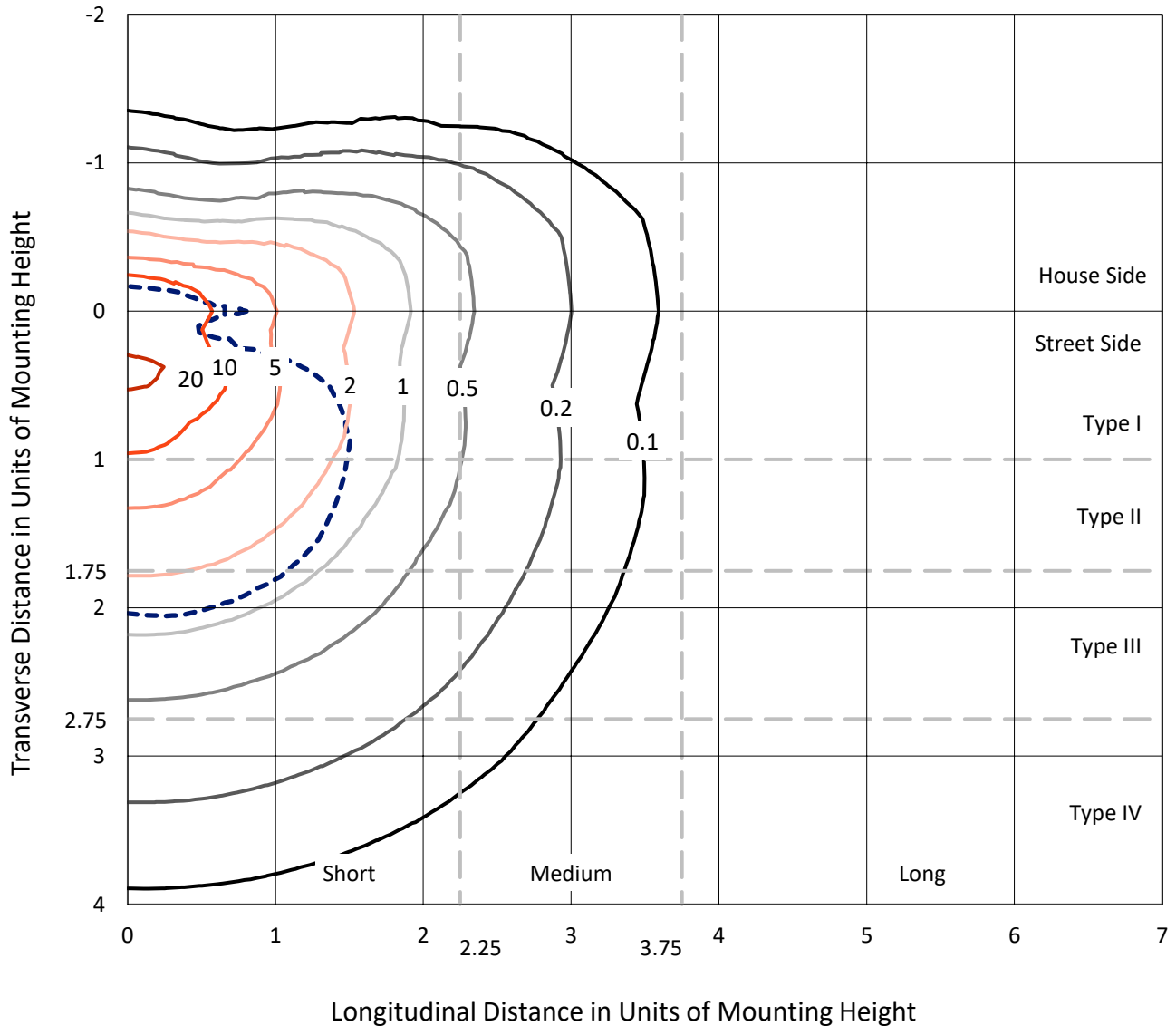
Lumens per Lamp: N/A  
Luminaire Lumens: 12410.4 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')  
IES Classification: Type III - Short  
BUG Rating: B3 - U3 - G3

Input Watts (W): 100.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

### Iso-Footcandle Lines of Horizontal Illumination

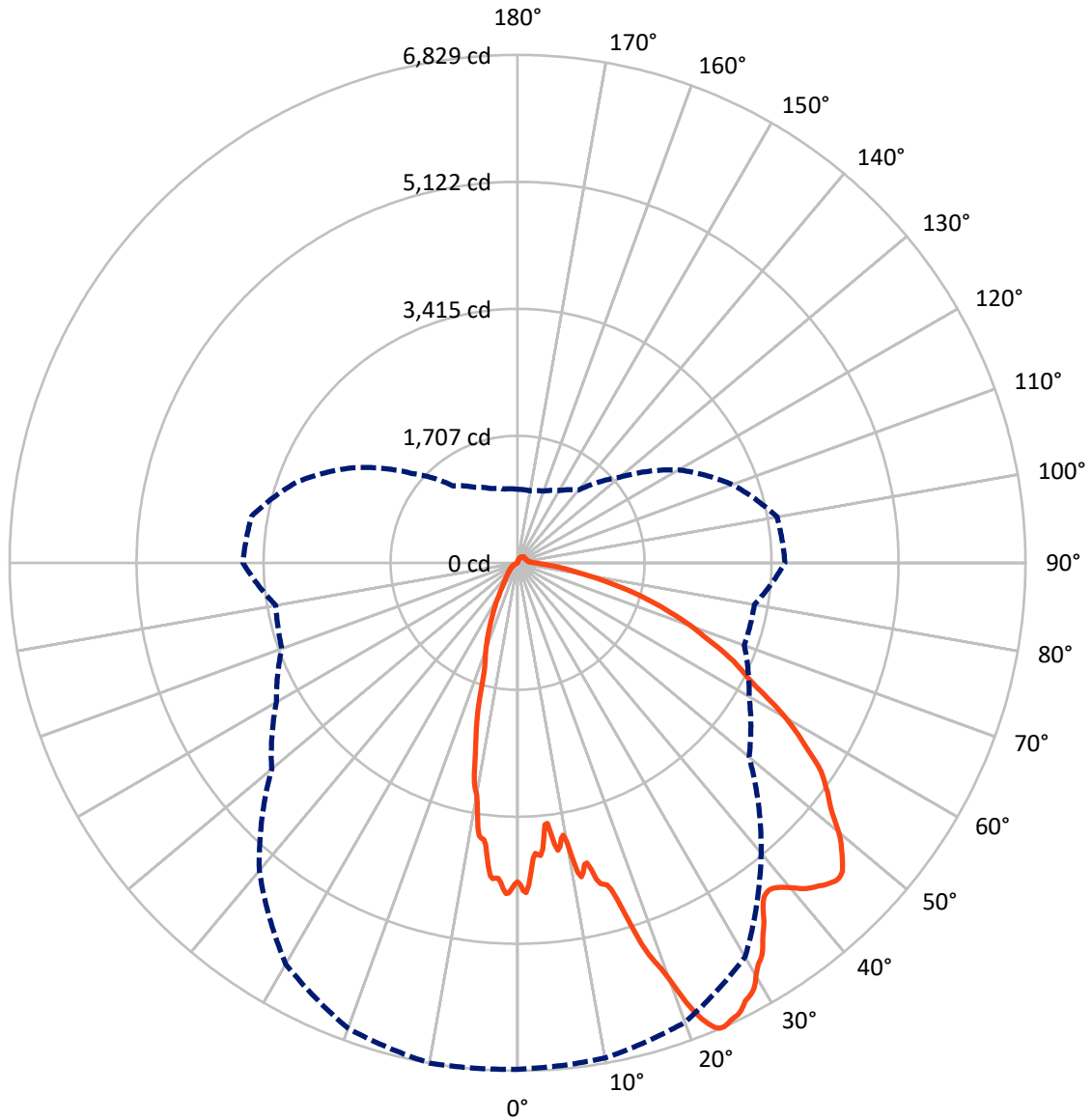
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 23.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P973046  
CATALOG NUMBER: WP-6984-100W-3000K

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

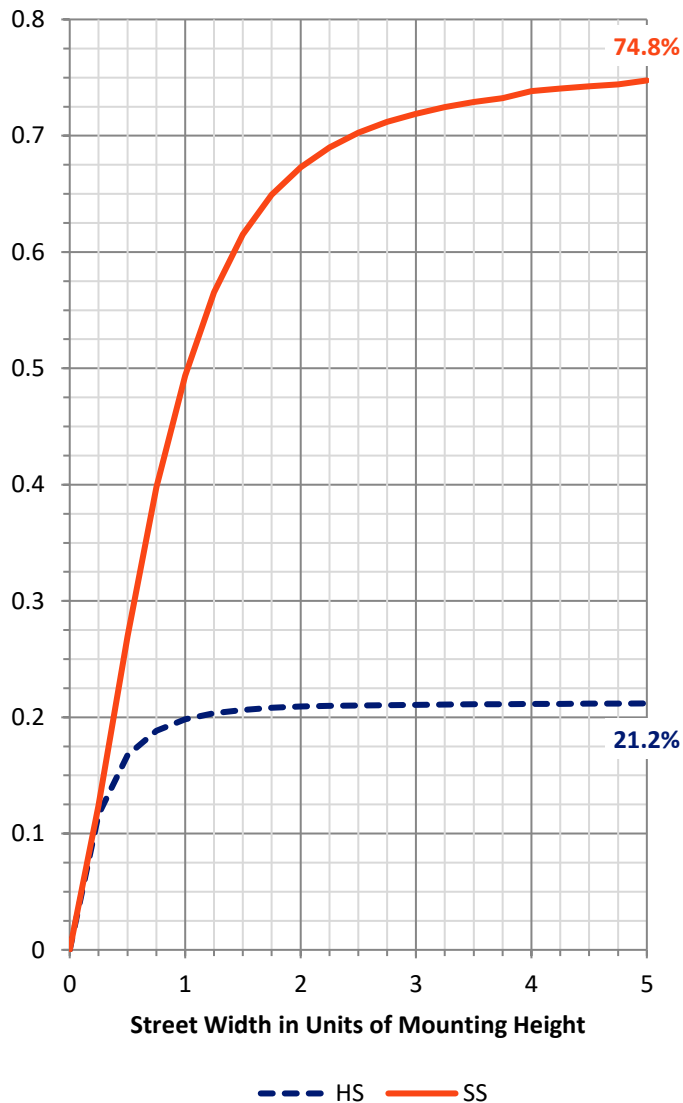
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2659.9	63.1	2722.9
	% Fixture	21.4	0.5	21.9
<b>Street Side</b>	Lumens	9378.1	309.3	9687.4
	% Fixture	75.6	2.5	78.1
<b>Total</b>	Lumens	12038.0	372.4	12410.4
	% Fixture	97.0	3.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.6	3.1
10°-20°	1005.3	8.1
20°-30°	1576.8	12.7
30°-40°	1903.8	15.3
40°-50°	2168.5	17.5
50°-60°	2153.9	17.4
60°-70°	1648.8	13.3
70°-80°	918.9	7.4
80°-90°	281.4	2.3
90°-100°	83.7	0.7
100°-110°	67.8	0.5
110°-120°	62.2	0.5
120°-130°	56.1	0.5
130°-140°	48.5	0.4
140°-150°	33.6	0.3
150°-160°	16.1	0.1
160°-170°	3.9	0.0
170°-180°	0.5	0.0
0°-90°	12038.0	97.0
0°-180°	12410.4	100.0

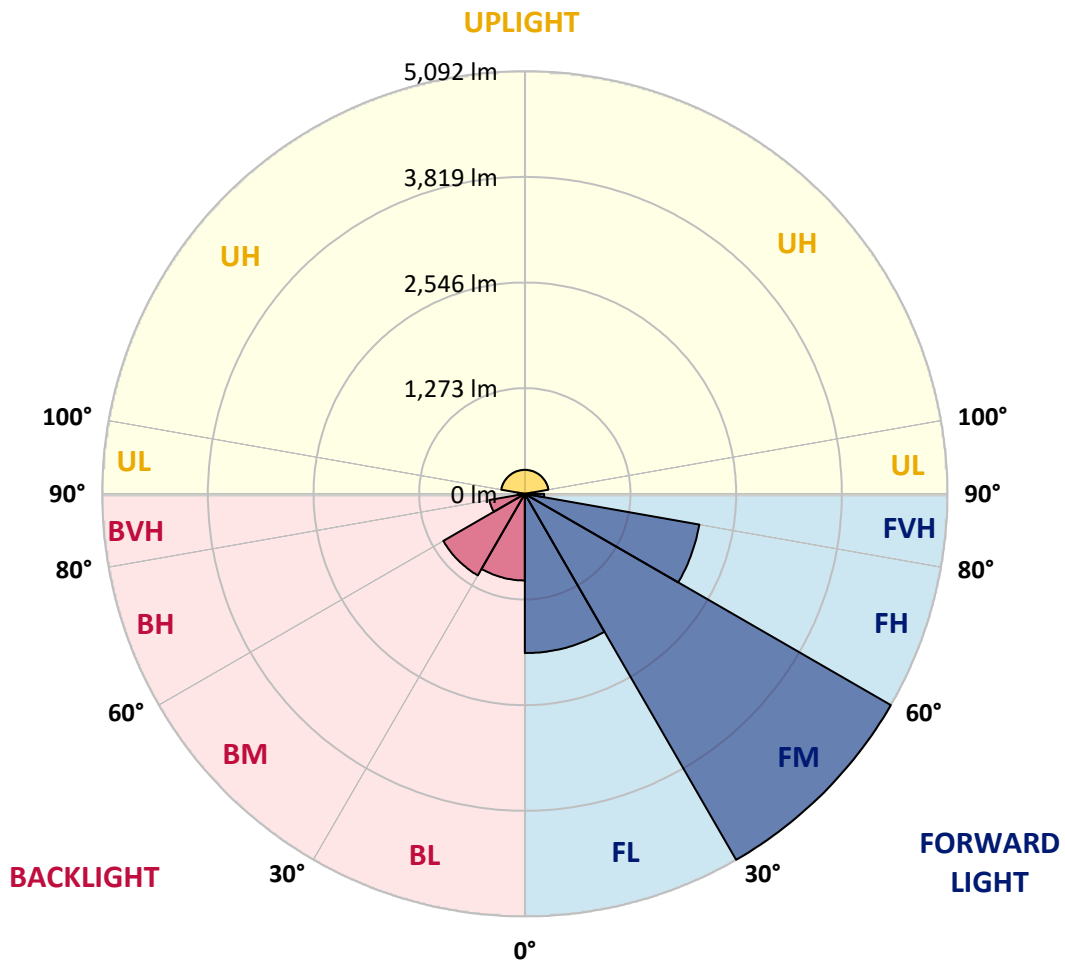


REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1918.9	15.5			
FM	(30°-60°)	5091.7	41.0			
FH	(60°-80°)	2135.3	17.2			G2/5000
FVH	(80°-90°)	232.2	1.9			G3/500
BL	(0°-30°)	1043.9	8.4	B3/2500		
BM	(30°-60°)	1134.5	9.1	B2/2500		
BH	(60°-80°)	432.4	3.5	B1/500		G1/500
BVH	(80°-90°)	49.1	0.4			G1/100
UL	(90°-100°)	83.7	0.7		U3/500	
UH	(100°-180°)	288.7	2.3		U3/500	

**BUG Rating: B3-U3-G3**  
 Type III Short





REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9
0.5°	4397.7	4395.9	4395.7	4396.8	4395.2	4386.0	4375.4	4362.8	4348.5	4334.5	4321.3
1°	4354.3	4358.6	4375.6	4393.2	4412.6	4417.7	4409.4	4391.8	4357.7	4330.2	4307.4
1.5°	4198.6	4211.2	4241.3	4292.0	4346.8	4390.8	4415.8	4406.8	4363.7	4321.2	4288.0
2°	4002.8	4016.3	4058.0	4128.4	4217.0	4306.9	4390.6	4413.1	4377.4	4312.4	4270.1
2.5°	3888.3	3896.1	3914.9	3966.7	4061.5	4192.0	4326.7	4399.9	4385.3	4309.2	4257.6
3°	3885.3	3878.4	3875.4	3884.2	3936.5	4063.8	4237.3	4370.9	4380.4	4297.9	4242.8
3.5°	3914.5	3906.9	3897.8	3876.7	3879.5	3951.0	4135.2	4322.5	4370.4	4284.6	4225.7
4°	3873.9	3886.0	3900.3	3895.7	3868.6	3885.0	4033.9	4262.9	4359.0	4278.5	4217.9
4.5°	3718.5	3752.3	3816.1	3886.0	3879.3	3857.6	3944.8	4197.1	4345.7	4261.7	4208.1
5°	3539.0	3565.5	3646.0	3785.0	3877.5	3851.0	3876.3	4119.5	4322.5	4245.8	4205.1
5.5°	3476.7	3475.8	3496.6	3624.4	3805.7	3861.3	3837.4	4045.2	4299.3	4229.3	4196.4
6°	3566.1	3532.2	3476.3	3491.8	3675.7	3850.2	3811.3	3970.3	4273.9	4212.6	4194.9
6.5°	3735.8	3689.1	3575.1	3468.4	3533.7	3793.5	3806.1	3900.8	4248.9	4197.0	4188.2
7°	3858.1	3837.0	3733.4	3547.4	3453.8	3694.6	3808.6	3842.7	4210.7	4180.5	4183.1
7.5°	3842.3	3853.6	3849.7	3686.2	3458.1	3565.5	3807.9	3797.6	4167.1	4157.3	4171.5
8°	3726.7	3746.9	3820.0	3810.5	3533.1	3460.8	3781.7	3761.1	4130.5	4136.5	4156.2
8.5°	3661.8	3651.8	3704.7	3828.7	3666.5	3402.6	3726.8	3736.0	4086.8	4110.3	4145.8
9°	3736.0	3675.3	3623.2	3744.8	3773.8	3401.0	3642.0	3715.9	4037.3	4094.2	4132.5
9.5°	3944.5	3864.5	3671.6	3638.2	3806.1	3467.9	3539.8	3706.5	3987.0	4082.6	4116.0
10°	4169.4	4092.0	3847.8	3602.5	3744.3	3576.6	3437.9	3701.3	3941.2	4066.3	4105.5
10.5°	4270.6	4237.0	4078.6	3690.5	3637.6	3673.3	3366.2	3697.2	3893.6	4055.5	4091.9
11°	4223.5	4229.0	4216.0	3887.0	3565.7	3730.8	3328.8	3687.8	3850.7	4049.7	4080.6
11.5°	4117.6	4130.5	4202.9	4083.8	3571.5	3720.3	3338.8	3669.5	3812.3	4039.8	4072.4
12°	4095.9	4063.8	4103.5	4189.2	3686.1	3657.1	3387.1	3636.9	3776.7	4030.9	4061.9
12.5°	4200.4	4127.6	4025.2	4166.7	3861.8	3568.8	3455.5	3581.9	3733.3	4023.2	4051.6
13°	4345.6	4270.5	4069.7	4063.2	4029.3	3506.7	3543.7	3526.9	3693.6	4009.4	4036.8
13.5°	4418.9	4368.1	4197.3	3976.6	4119.7	3501.1	3618.1	3456.4	3655.6	3990.3	4019.0
14°	4429.6	4386.7	4301.6	4000.6	4101.7	3567.7	3661.1	3389.8	3618.1	3968.1	3998.1
14.5°	4439.1	4369.9	4328.2	4112.8	4013.4	3708.7	3660.0	3326.3	3584.3	3947.6	3977.8
15°	4499.4	4394.7	4301.5	4210.9	3915.5	3863.9	3623.1	3271.7	3551.7	3932.4	3953.7
15.5°	4661.3	4516.8	4294.4	4249.0	3889.2	3995.0	3563.1	3232.9	3521.9	3911.3	3933.4
16°	4881.2	4713.1	4372.6	4221.2	3959.1	4057.9	3489.8	3211.9	3496.8	3892.3	3911.2
16.5°	5119.7	4951.5	4534.2	4184.4	4068.4	4046.6	3431.7	3213.6	3477.9	3872.2	3887.1
17°	5325.2	5169.8	4742.8	4207.3	4143.3	3977.4	3408.8	3234.0	3461.9	3852.6	3865.9
17.5°	5482.7	5324.7	4950.9	4307.3	4155.3	3888.0	3429.9	3263.8	3448.0	3834.4	3844.7
18°	5604.4	5459.7	5126.4	4475.7	4116.3	3818.8	3492.8	3308.1	3434.3	3813.2	3823.1
18.5°	5728.2	5576.0	5257.1	4665.6	4082.7	3815.5	3601.8	3360.9	3418.8	3793.8	3802.5
19°	5885.7	5702.3	5366.6	4835.7	4089.7	3874.5	3710.0	3403.8	3409.8	3772.4	3782.4
19.5°	6084.8	5872.6	5467.5	4977.7	4166.4	3957.6	3813.4	3443.3	3393.8	3750.1	3762.1
20°	6290.8	6080.9	5589.8	5089.2	4291.2	4008.8	3876.6	3460.3	3381.2	3728.8	3737.0
20.5°	6462.0	6286.5	5769.1	5201.7	4442.7	4012.8	3892.5	3460.6	3365.6	3705.9	3712.0
21°	6592.9	6440.0	5962.0	5305.4	4595.6	3978.0	3855.8	3444.0	3345.6	3687.2	3685.4
21.5°	6692.1	6572.3	6159.1	5416.8	4721.7	3932.8	3788.4	3413.2	3324.5	3667.0	3659.1
22°	6766.1	6675.9	6330.2	5566.3	4825.7	3901.4	3706.7	3366.8	3302.6	3647.8	3630.9



REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	6802.6	6726.3	6455.8	5745.6	4919.7	3914.7	3633.8	3318.1	3281.4	3628.7	3603.0
23°	6816.1	6752.1	6537.0	5936.6	5006.4	3972.1	3590.2	3277.5	3257.6	3611.8	3574.2
23.5°	6808.6	6760.2	6575.6	6116.9	5094.6	4063.4	3595.2	3243.8	3233.1	3594.4	3543.7
24°	6785.3	6756.8	6613.0	6253.9	5183.0	4172.3	3632.8	3227.1	3206.2	3578.0	3515.9
24.5°	6762.5	6735.6	6638.3	6338.7	5290.6	4284.8	3687.7	3227.4	3176.6	3557.1	3488.0
25°	6728.0	6694.7	6639.4	6372.9	5432.9	4389.8	3730.8	3243.3	3150.7	3541.6	3460.6
25.5°	6691.6	6650.6	6608.3	6391.4	5597.1	4477.4	3750.0	3281.6	3120.2	3523.4	3435.2
26°	6649.8	6615.4	6549.0	6429.2	5757.4	4550.1	3736.8	3330.2	3096.4	3506.3	3412.0
26.5°	6621.8	6589.0	6494.8	6451.9	5894.6	4613.8	3704.4	3392.5	3074.1	3492.5	3387.6
27°	6600.4	6558.4	6465.6	6444.8	5981.8	4676.0	3666.5	3452.6	3057.4	3479.8	3364.0
27.5°	6552.3	6522.4	6437.8	6393.0	6002.9	4735.5	3641.6	3496.1	3042.7	3468.8	3342.8
28°	6494.7	6475.6	6417.5	6324.5	5997.3	4794.4	3637.9	3523.9	3029.4	3457.7	3321.3
28.5°	6428.4	6422.9	6385.1	6250.6	5998.1	4870.4	3657.9	3533.5	3020.7	3447.6	3303.5
29°	6365.8	6361.9	6342.7	6212.5	6034.6	4966.1	3701.2	3525.2	3012.8	3436.3	3286.6
29.5°	6301.3	6304.2	6294.5	6189.5	6069.4	5081.2	3761.1	3501.7	3008.5	3426.9	3271.9
30°	6250.9	6250.5	6232.8	6164.2	6061.0	5194.2	3824.6	3470.8	3009.9	3417.9	3256.2
30.5°	6197.7	6213.0	6182.4	6132.3	6005.0	5295.9	3889.4	3433.1	3012.7	3410.6	3241.9
31°	6140.1	6155.4	6145.7	6084.4	5912.6	5369.0	3954.3	3397.1	3018.8	3404.1	3227.7
31.5°	6077.3	6085.9	6117.0	6036.2	5836.6	5399.5	4006.9	3370.8	3024.4	3396.9	3214.9
32°	6009.4	6021.4	6065.1	5978.8	5792.5	5403.8	4047.2	3357.3	3032.2	3390.5	3202.6
32.5°	5956.2	5977.3	5984.1	5922.4	5774.4	5399.9	4084.1	3357.7	3039.9	3384.4	3192.4
33°	5895.6	5945.2	5912.7	5885.3	5750.3	5403.3	4114.4	3370.7	3051.4	3378.5	3180.9
33.5°	5810.2	5883.9	5866.9	5856.8	5713.0	5420.1	4148.4	3391.3	3061.4	3373.7	3167.2
34°	5707.8	5780.4	5847.5	5815.5	5671.0	5440.1	4190.3	3414.3	3070.6	3370.0	3151.3
34.5°	5624.9	5679.5	5808.4	5745.0	5632.3	5441.5	4230.5	3430.8	3076.1	3367.3	3137.2
35°	5569.3	5598.3	5726.9	5661.6	5587.6	5414.2	4273.1	3435.7	3079.8	3362.6	3125.0
35.5°	5535.7	5542.1	5614.6	5587.8	5540.8	5362.5	4325.3	3435.0	3081.5	3358.9	3113.7
36°	5518.6	5510.2	5523.7	5558.3	5486.9	5306.4	4378.2	3422.7	3077.1	3353.9	3100.4
36.5°	5522.7	5510.1	5463.5	5541.1	5442.6	5264.3	4433.3	3406.3	3071.7	3350.6	3088.5
37°	5543.4	5524.3	5425.1	5481.2	5415.8	5232.1	4482.2	3392.2	3064.6	3343.9	3076.5
37.5°	5567.6	5549.4	5404.9	5387.3	5382.9	5205.8	4522.1	3380.9	3055.2	3337.3	3065.1
38°	5604.5	5585.7	5398.5	5285.4	5342.1	5178.0	4552.5	3372.5	3044.8	3327.0	3050.0
38.5°	5641.9	5626.6	5405.0	5217.4	5278.8	5144.8	4571.2	3370.8	3032.3	3315.7	3036.5
39°	5686.1	5674.2	5417.0	5171.6	5219.3	5103.5	4576.2	3374.2	3020.4	3301.6	3020.8
39.5°	5729.3	5720.5	5445.0	5135.2	5180.9	5067.4	4576.7	3380.8	3006.0	3290.0	3004.2
40°	5772.4	5760.4	5479.9	5105.3	5164.7	5036.1	4576.7	3392.6	2994.1	3278.5	2989.2
40.5°	5813.5	5797.0	5513.2	5081.9	5140.6	5006.9	4577.0	3401.8	2985.2	3270.1	2976.4
41°	5848.8	5834.0	5544.1	5071.6	5092.2	4975.9	4574.4	3410.0	2976.8	3263.0	2965.0
41.5°	5883.2	5863.9	5573.2	5065.4	5029.6	4945.3	4568.2	3419.0	2973.1	3256.2	2954.1
42°	5902.7	5898.8	5602.8	5069.3	4971.9	4917.8	4550.2	3428.6	2969.3	3251.7	2945.3
42.5°	5936.1	5922.0	5629.8	5079.0	4929.2	4891.7	4529.7	3435.5	2968.3	3244.7	2935.8
43°	5972.4	5954.6	5666.2	5090.7	4896.5	4864.5	4500.8	3444.0	2968.5	3240.4	2927.3
43.5°	6000.0	5979.9	5695.4	5101.4	4868.6	4834.4	4468.0	3449.5	2970.9	3238.0	2922.3
44°	6019.6	5999.6	5721.7	5106.7	4843.0	4796.7	4438.7	3450.8	2974.9	3234.6	2916.7
44.5°	6015.1	6017.2	5737.4	5119.2	4824.8	4760.7	4412.6	3452.9	2981.4	3230.6	2914.6





REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	6006.7	6007.9	5750.2	5126.6	4810.3	4732.6	4393.6	3451.8	2988.7	3226.4	2912.5
45.5°	5970.6	6004.0	5752.2	5129.6	4795.0	4704.4	4373.8	3454.0	2991.0	3223.0	2904.7
46°	5933.5	5971.9	5744.6	5131.0	4784.6	4681.5	4355.9	3459.1	2991.6	3215.3	2898.7
46.5°	5868.3	5930.7	5735.1	5126.7	4776.4	4656.6	4339.9	3464.7	2989.8	3207.0	2890.0
47°	5812.8	5867.9	5705.4	5121.1	4769.6	4623.3	4324.7	3469.2	2981.0	3198.7	2880.4
47.5°	5750.3	5808.6	5672.3	5105.6	4762.9	4582.4	4307.9	3475.3	2970.8	3188.3	2871.9
48°	5708.7	5770.3	5618.1	5081.6	4750.1	4544.4	4288.5	3477.3	2957.1	3177.0	2863.6
48.5°	5657.6	5733.4	5571.8	5058.6	4731.0	4507.5	4266.5	3475.6	2941.8	3166.5	2851.7
49°	5590.6	5683.6	5514.5	5034.6	4710.3	4470.7	4241.6	3477.9	2926.9	3155.4	2837.6
49.5°	5513.1	5621.6	5474.7	5005.2	4691.3	4433.3	4217.2	3475.3	2906.1	3142.2	2826.4
50°	5436.2	5536.4	5432.1	4971.6	4665.2	4400.6	4194.7	3476.0	2885.3	3127.3	2812.3
50.5°	5375.6	5460.8	5381.0	4931.7	4640.6	4366.5	4174.4	3475.7	2862.7	3113.3	2798.7
51°	5324.2	5383.1	5311.4	4891.8	4611.0	4327.4	4149.1	3468.6	2837.6	3096.3	2783.8
51.5°	5279.7	5323.3	5248.5	4845.8	4575.9	4287.4	4122.0	3461.1	2810.1	3077.9	2767.9
52°	5234.0	5284.2	5183.0	4802.6	4536.1	4248.3	4092.9	3451.7	2783.3	3057.5	2747.6
52.5°	5193.1	5248.2	5116.2	4758.5	4493.8	4207.5	4063.9	3438.3	2754.6	3040.8	2725.5
53°	5136.7	5205.0	5066.9	4720.8	4450.9	4161.4	4032.0	3421.9	2723.7	3017.5	2703.2
53.5°	5080.0	5140.7	5029.9	4684.0	4404.9	4114.3	3996.0	3405.6	2694.1	2990.6	2680.8
54°	5028.9	5080.8	5003.8	4633.4	4363.4	4069.9	3959.2	3385.0	2662.6	2963.7	2660.9
54.5°	4971.3	5017.0	4959.7	4589.2	4323.7	4023.3	3915.9	3362.9	2631.2	2926.5	2636.9
55°	4897.9	4946.5	4890.4	4549.6	4280.0	3979.9	3869.3	3335.2	2594.5	2888.9	2606.4
55.5°	4808.5	4860.7	4816.8	4511.0	4237.7	3933.7	3822.4	3295.7	2558.6	2853.0	2576.3
56°	4715.7	4771.5	4752.0	4473.7	4188.2	3888.4	3775.3	3251.0	2524.5	2815.2	2546.7
56.5°	4611.9	4671.1	4679.8	4432.1	4144.6	3843.0	3726.5	3203.3	2488.6	2775.1	2518.0
57°	4528.7	4573.1	4592.1	4378.2	4105.0	3802.0	3670.8	3152.4	2450.9	2734.3	2492.8
57.5°	4452.3	4495.5	4504.6	4315.3	4069.2	3759.2	3613.5	3106.3	2414.0	2690.9	2466.1
58°	4369.6	4430.4	4414.7	4244.9	4031.8	3719.5	3553.7	3061.2	2377.0	2648.6	2439.0
58.5°	4289.9	4361.4	4330.4	4170.2	3989.8	3678.7	3493.1	3014.2	2337.3	2605.2	2415.4
59°	4199.2	4284.9	4250.5	4096.8	3931.4	3634.3	3435.0	2960.2	2299.1	2564.4	2392.5
59.5°	4096.3	4194.0	4175.1	4022.4	3864.7	3588.3	3379.0	2907.3	2262.9	2519.5	2360.2
60°	3976.4	4089.3	4099.2	3956.1	3796.6	3539.1	3319.9	2854.9	2224.1	2472.4	2329.7
60.5°	3860.7	3970.6	4011.0	3888.4	3726.9	3482.2	3260.3	2801.2	2185.0	2426.9	2293.3
61°	3746.2	3855.5	3909.3	3822.7	3661.4	3424.9	3198.8	2745.7	2144.3	2380.8	2256.7
61.5°	3639.1	3742.2	3805.4	3750.4	3593.4	3368.7	3141.2	2691.9	2105.6	2338.9	2227.8
62°	3547.5	3644.6	3700.8	3676.3	3519.6	3308.5	3081.4	2636.3	2068.2	2297.0	2199.0
62.5°	3466.3	3556.8	3598.1	3587.0	3450.2	3236.2	3025.2	2579.5	2030.9	2252.3	2159.4
63°	3408.1	3478.4	3503.8	3499.7	3385.8	3167.3	2969.7	2524.6	1995.9	2207.0	2123.3
63.5°	3353.4	3411.4	3418.8	3413.7	3316.5	3098.1	2915.4	2473.4	1956.6	2162.7	2084.1
64°	3293.5	3355.0	3339.1	3327.3	3242.4	3025.9	2857.0	2421.5	1916.1	2116.0	2044.9
64.5°	3228.4	3297.7	3268.7	3244.7	3167.0	2947.7	2801.0	2373.3	1875.7	2071.2	2002.9
65°	3163.8	3231.7	3211.9	3175.0	3093.7	2872.3	2745.9	2324.0	1832.4	2024.7	1959.6
65.5°	3076.0	3144.1	3145.1	3106.2	3022.8	2795.5	2689.0	2270.9	1791.4	1978.6	1919.7
66°	2976.7	3055.1	3074.0	3039.8	2952.3	2719.9	2627.5	2215.1	1748.8	1936.2	1877.9
66.5°	2881.4	2953.9	2987.0	2976.5	2883.5	2645.2	2556.3	2161.8	1709.4	1893.0	1833.9
67°	2792.5	2852.8	2904.9	2907.2	2816.4	2576.5	2481.5	2109.1	1667.7	1850.0	1786.8



REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2710.2	2765.1	2817.4	2828.4	2746.1	2511.8	2404.1	2055.6	1625.9	1803.9	1748.9
68°	2636.5	2688.0	2726.6	2747.9	2675.2	2443.8	2331.1	2003.7	1585.1	1759.1	1704.2
68.5°	2564.5	2607.1	2635.1	2666.7	2605.5	2381.2	2252.3	1948.7	1544.8	1716.0	1660.9
69°	2497.6	2529.2	2551.7	2584.4	2532.8	2321.2	2176.2	1898.3	1502.0	1672.2	1614.6
69.5°	2423.5	2460.2	2471.5	2499.3	2455.9	2260.9	2099.4	1846.9	1455.7	1623.2	1566.4
70°	2341.0	2379.2	2392.6	2420.5	2378.0	2192.1	2025.7	1794.7	1411.4	1576.2	1525.4
70.5°	2259.9	2299.6	2318.3	2345.0	2301.8	2122.4	1959.0	1742.3	1365.4	1529.4	1474.9
71°	2181.2	2220.2	2241.8	2271.8	2221.4	2053.9	1889.9	1690.9	1322.2	1479.9	1427.9
71.5°	2102.7	2138.3	2159.9	2192.0	2139.9	1980.7	1823.8	1644.3	1281.5	1434.6	1378.1
72°	2032.1	2066.9	2078.1	2112.3	2063.3	1908.2	1759.6	1595.0	1240.6	1388.7	1327.9
72.5°	1961.7	1994.7	2007.5	2034.2	1988.9	1834.4	1693.6	1545.8	1199.7	1343.3	1281.8
73°	1884.5	1925.0	1938.4	1959.1	1911.9	1763.0	1630.6	1500.5	1160.5	1297.6	1235.4
73.5°	1806.6	1848.8	1864.2	1881.7	1838.5	1693.4	1571.5	1451.9	1119.4	1252.7	1188.0
74°	1730.5	1772.3	1786.0	1805.9	1766.5	1623.6	1517.5	1398.2	1076.8	1208.0	1141.6
74.5°	1642.3	1683.6	1708.6	1729.6	1693.6	1556.8	1463.6	1335.7	1036.3	1159.6	1098.0
75°	1556.7	1591.6	1624.7	1653.2	1624.3	1492.4	1410.5	1276.0	996.1	1115.2	1054.7
75.5°	1472.5	1507.0	1544.3	1577.0	1555.2	1429.8	1354.6	1214.5	949.7	1065.9	1009.7
76°	1388.1	1423.3	1462.3	1496.1	1484.2	1363.7	1296.8	1148.4	903.1	1017.1	965.6
76.5°	1307.8	1341.9	1381.6	1417.8	1414.0	1299.3	1236.1	1082.4	855.7	969.5	924.6
77°	1232.0	1266.0	1307.6	1342.4	1344.3	1237.7	1176.4	1023.3	814.0	923.9	881.8
77.5°	1156.6	1191.8	1233.2	1267.7	1271.0	1177.6	1115.4	965.1	772.9	875.3	839.7
78°	1085.0	1116.9	1162.2	1194.6	1203.2	1114.9	1053.0	911.5	730.0	828.4	795.4
78.5°	1018.3	1049.0	1091.3	1124.6	1134.6	1053.1	993.7	858.3	691.0	780.2	753.8
79°	954.0	983.6	1018.7	1056.2	1065.1	994.5	942.5	810.6	652.8	733.9	713.1
79.5°	888.4	917.6	951.9	987.4	996.0	935.8	892.4	763.3	614.6	689.1	685.3
80°	833.4	858.5	887.7	922.1	931.3	877.4	841.1	719.8	576.4	646.8	644.7
80.5°	779.2	804.6	824.3	857.9	869.5	824.9	794.2	678.3	538.2	604.5	603.2
81°	728.5	749.2	767.5	795.9	810.0	773.4	746.0	637.3	500.0	562.3	561.7
81.5°	684.0	700.8	713.7	738.6	751.0	719.9	696.6	596.4	466.2	520.0	520.2
82°	640.6	656.2	666.2	686.0	694.3	665.1	650.4	555.5	433.2	477.7	479.7
82.5°	597.3	611.8	622.1	641.4	648.7	619.5	604.3	514.5	399.5	440.1	441.5
83°	554.0	567.4	578.0	597.2	603.4	574.0	558.2	475.4	365.4	402.7	406.0
83.5°	510.7	523.1	534.0	553.1	558.0	528.4	512.1	440.4	333.5	366.4	374.4
84°	467.4	478.7	489.9	509.0	512.7	482.9	466.0	406.3	303.4	330.3	342.0
84.5°	431.2	442.7	451.6	464.8	467.4	445.2	427.3	371.5	274.6	295.4	309.2
85°	396.6	408.6	416.1	428.2	431.5	411.0	390.8	339.9	247.0	261.8	277.6
85.5°	367.0	378.3	384.1	395.1	399.6	379.7	356.2	309.2	222.1	231.3	248.8
86°	339.9	350.0	355.0	365.1	369.9	351.3	326.1	280.8	199.9	202.1	221.7
86.5°	315.2	324.4	328.3	337.4	342.4	325.5	298.7	253.5	177.7	174.0	195.1
87°	293.2	302.2	305.0	311.7	316.8	301.7	275.4	228.5	157.2	149.2	171.1
87.5°	274.3	281.7	284.4	289.5	293.9	280.5	254.2	209.0	139.7	127.0	149.0
88°	256.8	262.1	265.3	268.4	272.7	261.0	234.2	190.5	125.5	107.3	128.8
88.5°	242.1	246.6	248.2	250.5	253.8	243.3	217.7	175.7	113.8	90.8	113.2
89°	228.8	232.4	233.1	234.6	236.3	227.5	203.1	162.7	104.2	78.0	100.9
89.5°	216.8	219.6	219.3	219.7	220.8	213.6	190.1	152.2	96.2	67.6	91.2



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	206.6	208.3	207.1	206.6	206.9	201.0	178.6	142.6	89.7	62.0	83.2
90.5°	197.5	199.0	197.1	195.9	195.5	190.5	168.5	135.1	84.7	56.4	76.2
91°	189.5	190.7	188.0	185.8	185.1	180.1	159.5	128.8	80.7	50.8	70.9
91.5°	182.9	184.1	180.5	177.2	175.2	170.3	152.1	123.5	77.2	45.2	68.3
92°	177.0	177.5	173.1	168.8	165.3	162.1	145.8	119.1	74.4	42.3	65.9
92.5°	170.1	170.9	165.5	160.4	157.7	155.3	140.6	115.5	72.2	40.5	63.4
93°	163.8	164.3	158.6	153.6	151.7	149.1	135.9	112.2	70.5	39.3	61.0
93.5°	159.4	159.8	153.8	148.8	146.3	143.7	131.8	109.5	69.6	38.5	58.5
94°	156.2	156.5	150.0	144.5	141.4	139.1	128.3	106.9	68.6	38.1	57.8
94.5°	153.6	153.8	146.9	140.9	137.1	135.0	125.0	104.6	67.7	37.9	57.2
95°	151.6	151.7	144.5	137.7	133.4	131.3	121.9	102.5	66.7	37.8	56.2
95.5°	149.6	149.8	142.3	135.4	130.5	128.2	119.4	100.6	65.8	37.7	55.7
96°	147.4	147.6	140.4	133.2	127.9	125.4	117.0	98.8	65.3	37.4	55.4
96.5°	146.0	146.2	138.8	131.2	125.5	122.9	114.6	97.1	64.9	37.7	55.2
97°	145.0	145.2	137.6	129.6	123.5	120.5	112.4	95.6	64.7	38.0	54.9
97.5°	144.2	144.3	136.7	128.3	121.7	118.2	110.4	94.3	64.8	38.5	54.6
98°	143.2	143.4	135.7	127.1	120.1	116.1	108.3	93.2	64.9	38.9	54.2
98.5°	142.1	142.5	134.9	125.9	118.6	114.4	106.7	92.3	65.1	39.4	53.7
99°	141.4	141.6	134.2	124.9	117.3	112.7	105.1	91.7	65.3	39.9	53.3
99.5°	140.5	140.7	133.3	123.9	116.2	111.1	103.8	91.1	65.5	40.4	52.8
100°	139.4	139.7	132.4	123.2	115.1	109.7	102.7	90.7	65.8	40.9	52.3
100.5°	138.3	138.7	131.8	122.2	114.0	108.6	101.7	90.3	66.1	41.5	51.9
101°	137.2	137.8	130.5	120.9	113.1	107.7	100.9	90.1	66.4	42.0	51.6
101.5°	134.7	135.6	128.9	120.0	112.7	107.1	100.3	89.9	66.7	42.6	51.3
102°	132.7	133.8	127.9	119.8	112.5	106.6	99.8	89.9	67.1	43.3	51.2
102.5°	131.7	133.1	127.9	119.9	112.4	106.1	99.2	89.7	67.6	44.0	51.1
103°	132.0	133.6	128.3	119.9	112.1	105.6	98.7	89.7	68.2	44.6	51.1
103.5°	131.9	133.7	128.2	119.8	111.9	105.2	98.2	89.7	68.8	45.3	51.1
104°	131.4	133.1	127.7	119.4	111.6	104.8	97.7	89.6	69.4	46.0	51.2
104.5°	130.6	132.4	127.3	119.1	111.3	104.4	97.3	89.6	70.0	46.7	51.4
105°	129.8	131.8	126.9	118.9	111.1	104.1	96.9	89.6	70.6	47.4	51.6
105.5°	129.0	131.2	126.5	118.6	111.0	103.8	96.5	89.5	71.1	48.0	51.9
106°	128.2	130.5	125.9	118.4	110.8	103.4	96.2	89.4	71.6	48.7	52.2
106.5°	127.6	129.9	125.5	118.2	110.6	103.1	95.8	89.3	72.1	49.3	52.6
107°	127.1	129.3	125.1	117.9	110.4	102.8	95.4	89.2	72.6	50.0	52.9
107.5°	126.6	128.8	124.6	117.5	110.2	102.4	95.0	89.2	73.0	50.6	53.2
108°	126.0	127.9	124.0	117.1	110.0	102.1	94.7	89.1	73.6	51.2	53.5
108.5°	125.2	127.1	123.4	116.6	109.6	101.7	94.4	89.2	74.1	51.7	53.9
109°	124.3	126.2	122.7	116.1	109.3	101.4	94.2	89.4	74.7	52.2	54.2
109.5°	123.3	125.2	121.9	115.6	108.9	101.1	94.1	89.6	75.3	52.8	54.6
110°	122.1	124.1	121.2	115.0	108.6	100.8	94.0	89.9	75.9	53.4	54.9
110.5°	121.0	123.1	120.4	114.6	108.3	100.6	93.8	90.1	76.4	54.0	55.2
111°	120.0	122.1	119.6	114.0	108.0	100.3	93.7	90.3	76.9	54.5	55.5
111.5°	118.9	121.1	118.9	113.5	107.6	100.2	93.6	90.6	77.4	55.1	55.8
112°	117.9	120.2	118.2	113.0	107.3	100.0	93.5	90.9	77.9	55.6	56.1



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	116.9	119.2	117.5	112.5	106.7	99.8	93.5	91.1	78.4	56.1	56.3
113°	116.0	118.3	116.7	111.8	106.4	99.8	93.5	91.4	78.8	56.5	56.6
113.5°	115.2	117.7	116.1	111.1	106.1	99.6	93.5	91.5	79.3	56.9	56.9
114°	114.5	117.0	115.3	110.6	105.9	99.5	93.5	91.8	79.7	57.3	57.1
114.5°	113.8	116.3	114.6	110.1	105.8	99.5	93.5	92.0	80.0	57.7	57.3
115°	113.1	115.5	113.8	109.8	105.5	99.3	93.5	92.2	80.3	58.0	57.6
115.5°	112.3	114.7	113.1	109.5	105.2	99.2	93.5	92.4	80.7	58.4	57.7
116°	111.6	113.9	112.6	109.3	105.1	99.1	93.5	92.6	81.0	58.7	57.9
116.5°	111.0	113.3	112.2	109.1	105.0	99.0	93.5	92.6	81.2	58.9	58.0
117°	110.5	112.8	111.9	108.8	104.8	98.9	93.5	92.7	81.5	59.0	58.1
117.5°	110.2	112.3	111.6	108.6	104.7	98.8	93.5	92.8	81.6	59.1	58.2
118°	110.0	112.0	111.4	108.6	104.5	98.7	93.5	92.7	81.7	59.1	58.2
118.5°	109.8	111.7	111.2	108.5	104.4	98.7	93.5	92.8	81.6	59.0	58.3
119°	109.7	111.5	111.1	108.4	104.2	98.6	93.5	92.8	81.5	58.9	58.4
119.5°	109.7	111.3	111.1	108.3	104.0	98.5	93.5	92.8	81.5	58.7	58.5
120°	109.8	111.4	111.2	108.2	103.9	98.6	93.6	92.7	81.4	58.5	58.6
120.5°	109.9	111.4	111.3	108.1	103.8	98.6	93.6	92.7	81.2	58.4	58.7
121°	110.2	111.5	111.2	108.0	103.7	98.6	93.7	92.8	81.0	58.2	58.7
121.5°	110.2	111.5	111.3	108.0	103.6	98.7	93.9	92.8	80.8	58.0	58.7
122°	110.3	111.6	111.3	107.9	103.6	98.7	94.0	92.9	80.5	57.7	58.7
122.5°	110.5	111.8	111.4	107.9	103.6	98.8	94.1	92.9	80.2	57.3	58.6
123°	110.7	112.0	111.4	107.9	103.6	99.0	94.2	92.9	79.9	56.9	58.6
123.5°	111.0	112.1	111.6	107.9	103.6	99.2	94.4	92.9	79.5	56.6	58.5
124°	111.2	112.3	111.7	107.8	103.6	99.4	94.7	93.0	79.2	56.3	58.4
124.5°	111.4	112.5	112.0	107.7	103.7	99.6	94.8	93.1	78.7	55.9	58.3
125°	111.7	112.8	112.1	107.6	103.8	99.8	95.1	93.2	78.3	55.6	58.2
125.5°	111.9	113.0	112.2	107.6	103.9	100.0	95.5	93.3	77.9	55.3	58.0
126°	112.2	113.3	112.3	107.5	104.0	100.3	95.8	93.5	77.6	54.9	57.9
126.5°	112.6	113.4	112.4	107.4	104.2	100.6	96.2	93.7	77.3	54.7	57.8
127°	112.6	113.6	112.5	107.3	104.3	100.9	96.6	93.9	77.1	54.5	57.8
127.5°	112.6	113.8	112.6	107.2	104.4	101.2	97.0	94.2	76.8	54.3	57.8
128°	112.6	113.9	112.7	107.1	104.6	101.5	97.4	94.5	76.7	54.2	57.9
128.5°	112.6	114.0	112.8	107.1	104.9	101.8	97.9	94.8	76.5	54.2	58.0
129°	112.7	114.1	112.8	107.0	105.0	102.1	98.5	95.1	76.4	54.2	58.1
129.5°	112.6	114.1	112.8	106.9	105.1	102.4	99.0	95.4	76.3	54.2	58.2
130°	112.6	114.0	112.9	106.8	105.3	102.6	99.5	95.8	76.3	54.3	58.4
130.5°	112.5	114.0	112.9	106.7	105.4	102.8	100.1	96.1	76.3	54.5	58.6
131°	112.3	114.0	112.9	106.6	105.4	103.0	100.6	96.5	76.3	54.6	58.8
131.5°	112.2	113.9	112.9	106.4	105.5	103.2	101.2	96.9	76.4	54.8	59.0
132°	112.1	113.8	112.9	106.2	105.5	103.4	101.7	97.2	76.4	55.0	59.2
132.5°	111.7	113.6	112.7	106.0	105.4	103.5	102.2	97.5	76.4	55.2	59.3
133°	111.3	113.3	112.5	105.8	105.2	103.6	102.6	97.8	76.5	55.4	59.4
133.5°	110.9	113.0	112.2	105.5	104.9	103.7	103.0	98.0	76.5	55.7	59.6
134°	110.3	112.6	112.0	105.1	104.6	103.7	103.3	98.3	76.5	55.9	59.7
134.5°	109.6	112.2	111.6	104.8	104.2	103.7	103.5	98.4	76.5	56.0	59.8



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	108.8	111.7	111.2	104.4	103.7	103.7	103.7	98.6	76.5	56.2	59.9
135.5°	108.0	111.2	110.7	104.1	103.2	103.6	103.8	98.7	76.4	56.4	59.9
136°	107.3	110.6	110.2	103.7	102.6	103.5	103.9	98.7	76.3	56.5	60.0
136.5°	106.3	109.9	109.6	103.4	102.1	103.3	103.9	98.7	76.2	56.6	60.0
137°	105.3	109.2	109.0	102.9	101.4	103.0	103.7	98.6	76.0	56.7	60.0
137.5°	104.3	108.3	108.3	102.4	100.7	102.7	103.6	98.5	75.8	56.8	59.9
138°	103.1	107.4	107.7	101.9	99.9	102.3	103.3	98.2	75.6	57.0	59.8
138.5°	102.0	106.5	107.0	100.6	99.1	101.8	102.9	97.9	75.4	57.0	59.7
139°	100.9	105.6	106.2	99.9	98.3	101.3	102.4	97.5	75.0	57.0	59.5
139.5°	100.1	104.7	105.2	99.4	97.5	100.6	101.9	97.1	74.6	57.0	59.2
140°	99.1	103.7	104.2	98.9	96.7	99.8	101.3	96.5	74.2	56.8	58.9
140.5°	98.2	102.6	102.8	98.3	96.0	99.1	100.6	95.8	73.7	56.7	58.6
141°	97.0	101.3	101.2	97.8	95.3	98.2	99.7	95.1	73.0	56.5	58.1
141.5°	95.6	100.0	100.2	97.3	94.6	97.2	98.7	94.2	72.4	56.3	57.6
142°	94.2	98.1	99.3	96.6	93.7	96.1	97.7	93.1	71.7	56.0	57.1
142.5°	91.3	96.8	98.4	96.0	92.9	95.0	96.7	92.1	70.9	55.6	56.5
143°	90.4	95.8	97.4	95.2	92.0	93.8	95.5	90.9	69.9	55.2	55.8
143.5°	89.8	94.8	96.5	94.4	91.3	92.5	94.2	89.7	69.0	54.7	55.2
144°	89.0	93.8	95.6	93.6	90.5	91.2	92.8	88.3	68.0	54.1	54.4
144.5°	88.3	92.8	94.6	92.7	89.6	90.0	91.5	86.9	66.9	53.5	53.6
145°	87.6	91.7	93.6	91.8	88.7	88.6	90.0	85.3	65.8	52.9	52.8
145.5°	86.8	90.6	92.5	90.7	87.9	87.3	88.5	83.7	64.6	52.2	51.9
146°	86.0	89.5	91.4	89.7	86.8	85.9	86.9	82.1	63.3	51.4	50.9
146.5°	85.2	88.4	90.3	88.5	85.7	84.5	85.2	80.3	62.0	50.6	49.9
147°	84.2	87.2	89.2	87.3	84.5	83.1	83.5	78.5	60.6	49.7	48.9
147.5°	83.3	86.0	88.0	86.1	83.4	81.7	81.9	76.6	59.2	48.8	47.8
148°	82.4	84.7	86.7	84.8	82.1	80.3	80.1	74.6	57.7	47.7	46.8
148.5°	81.5	83.5	85.4	83.5	80.7	78.9	78.4	72.6	56.2	46.8	45.6
149°	80.4	82.2	84.1	82.1	79.4	77.4	76.4	70.5	54.6	45.7	44.4
149.5°	79.4	80.8	82.8	80.6	78.0	75.9	74.5	68.5	53.1	44.6	43.3
150°	78.4	79.4	81.4	79.1	76.6	74.4	72.5	66.5	51.4	43.5	42.1
150.5°	77.3	78.0	80.0	77.6	75.1	72.7	70.6	64.5	49.8	42.3	40.8
151°	76.2	76.7	78.5	76.1	73.6	71.2	68.6	62.5	48.2	41.1	39.6
151.5°	74.9	75.2	76.8	74.5	72.0	70.3	66.7	60.5	46.6	39.9	38.4
152°	73.6	73.6	75.1	72.9	70.4	68.6	64.7	58.3	44.9	38.7	37.1
152.5°	72.3	72.0	73.4	71.4	68.9	66.9	62.7	56.1	43.2	37.4	35.9
153°	70.9	70.4	71.7	69.3	67.3	65.2	60.8	53.9	41.6	36.2	34.6
153.5°	70.4	69.1	70.2	68.0	65.7	63.5	58.5	51.7	40.0	35.0	33.4
154°	69.0	67.7	68.6	66.6	64.2	61.7	56.3	49.5	38.4	33.7	32.2
154.5°	67.6	66.3	67.0	65.3	62.6	59.9	54.0	47.3	36.8	32.5	30.9
155°	66.3	64.9	65.5	64.0	60.9	58.0	51.7	45.2	35.2	31.2	29.7
155.5°	64.9	63.6	63.9	62.3	59.0	55.8	49.5	43.1	33.6	30.0	28.5
156°	63.5	62.0	62.3	60.5	57.3	53.4	47.2	41.0	32.2	28.8	27.3
156.5°	62.0	60.5	60.5	58.6	55.6	51.1	45.0	39.0	30.6	27.6	26.1
157°	60.6	58.9	58.8	56.8	53.8	48.8	42.7	37.0	29.2	26.4	25.0



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	59.1	57.4	56.9	55.0	52.0	46.4	40.5	35.1	27.8	25.2	23.9
158°	57.6	55.7	55.1	53.1	50.2	44.1	38.3	33.2	26.4	24.1	22.8
158.5°	56.0	54.1	53.2	51.4	48.3	41.6	36.0	31.3	25.0	23.0	21.7
159°	54.2	52.3	51.5	49.6	46.0	39.2	33.8	29.5	23.7	21.9	20.6
159.5°	52.5	50.7	49.7	47.7	43.2	36.9	31.7	27.7	22.3	20.7	19.6
160°	50.9	49.1	47.9	45.9	40.6	34.6	29.8	26.0	21.1	19.7	18.6
160.5°	49.3	47.5	46.2	44.1	38.0	32.3	27.9	24.4	19.9	18.6	17.6
161°	47.6	45.9	44.6	42.0	35.4	30.1	26.1	22.8	18.7	17.6	16.6
161.5°	46.1	44.2	42.8	39.1	32.7	27.8	24.3	21.2	17.5	16.5	15.6
162°	44.4	42.6	41.0	36.1	30.3	25.5	22.6	19.7	16.3	15.5	14.7
162.5°	42.6	40.9	38.5	33.3	27.7	23.3	21.0	18.3	15.2	14.6	13.8
163°	40.8	39.0	35.5	30.6	25.4	21.0	19.4	16.9	14.2	13.7	12.9
163.5°	37.8	35.8	32.5	27.9	23.1	18.7	17.8	15.6	13.1	12.7	12.1
164°	34.5	32.7	29.5	25.5	20.9	17.1	16.4	14.3	12.2	11.9	11.3
164.5°	31.2	29.7	26.7	23.1	18.6	15.6	15.0	13.1	11.2	11.1	10.5
165°	28.1	26.8	24.1	20.9	16.4	14.4	13.7	12.0	10.4	10.3	9.8
165.5°	25.1	24.0	21.6	18.7	14.1	13.1	12.4	11.0	9.5	9.6	9.1
166°	22.3	21.5	19.4	16.6	12.0	11.9	11.3	10.0	8.8	8.9	8.5
166.5°	19.8	19.1	17.1	14.4	11.0	10.7	10.2	9.1	8.1	8.2	7.9
167°	17.4	16.8	14.9	12.2	10.3	9.8	9.2	8.2	7.4	7.6	7.3
167.5°	15.1	14.5	12.6	9.8	9.6	8.8	8.3	7.4	6.8	7.0	6.8
168°	12.5	12.1	10.1	9.0	8.9	8.2	7.4	6.8	6.2	6.4	6.2
168.5°	9.9	9.5	8.1	8.4	8.3	7.6	6.9	6.1	5.6	5.8	5.7
169°	7.6	7.6	7.5	7.8	7.8	7.2	6.4	5.4	5.0	5.2	5.2
169.5°	7.2	7.2	7.1	7.3	7.2	6.8	5.9	4.8	4.5	4.7	4.8
170°	6.8	6.8	6.8	6.9	6.8	6.3	5.5	4.6	4.2	4.5	4.7
170.5°	6.5	6.4	6.4	6.5	6.4	5.9	5.2	4.5	4.2	4.5	4.7
171°	6.1	6.1	6.0	6.1	6.0	5.6	5.0	4.4	4.3	4.5	4.7
171.5°	5.9	5.8	5.7	5.7	5.6	5.3	4.8	4.4	4.3	4.5	4.8
172°	5.6	5.6	5.5	5.4	5.3	5.1	4.7	4.3	4.4	4.6	4.9
172.5°	5.4	5.4	5.4	5.2	5.1	4.9	4.6	4.4	4.5	4.7	5.0
173°	5.2	5.2	5.2	5.0	4.9	4.8	4.6	4.4	4.6	4.8	5.1
173.5°	5.0	5.1	5.0	4.8	4.8	4.7	4.6	4.5	4.7	4.9	5.2
174°	4.9	4.9	4.8	4.7	4.6	4.6	4.5	4.5	4.8	5.0	5.2
174.5°	4.7	4.7	4.5	4.5	4.5	4.5	4.4	4.5	4.8	5.0	5.2
175°	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.6	4.8	5.0	5.2
175.5°	4.4	4.4	4.3	4.3	4.3	4.3	4.4	4.6	4.8	5.1	5.3
176°	4.3	4.3	4.2	4.2	4.2	4.3	4.4	4.6	4.8	5.1	5.3
176.5°	4.3	4.2	4.2	4.1	4.1	4.3	4.4	4.6	4.8	5.1	5.3
177°	4.2	4.2	4.1	4.1	4.1	4.3	4.4	4.6	4.8	5.0	5.3
177.5°	4.2	4.2	4.2	4.1	4.1	4.2	4.4	4.6	4.8	5.0	5.2
178°	4.3	4.2	4.2	4.1	4.1	4.2	4.4	4.6	4.7	4.9	5.2
178.5°	4.3	4.3	4.2	4.1	4.2	4.2	4.4	4.6	4.7	4.9	5.1
179°	4.4	4.4	4.3	4.2	4.2	4.3	4.4	4.6	4.7	4.9	5.1
179.5°	4.4	4.4	4.3	4.2	4.2	4.3	4.4	4.6	4.8	4.9	5.1



REPORT NUMBER: P973046  
CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5





REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9
0.5°	4308.4	4297.9	4290.5	4288.2	4290.4	4288.9	4289.0	4260.2	4259.1	4261.7	4267.0
1°	4293.1	4284.4	4289.4	4297.3	4309.2	4317.6	4320.8	4254.4	4252.7	4251.6	4250.0
1.5°	4273.0	4280.4	4307.1	4337.7	4365.4	4381.0	4382.6	4309.6	4304.2	4296.6	4288.1
2°	4270.3	4300.1	4342.7	4384.4	4415.0	4431.5	4440.2	4373.9	4365.7	4356.8	4343.5
2.5°	4269.1	4326.9	4384.8	4422.6	4444.9	4447.5	4447.5	4405.4	4398.0	4395.9	4389.0
3°	4278.9	4351.1	4406.0	4434.2	4429.1	4404.9	4390.0	4380.5	4381.2	4394.0	4399.8
3.5°	4287.3	4371.0	4413.0	4402.4	4359.4	4317.7	4301.0	4291.6	4299.5	4321.6	4370.2
4°	4301.1	4377.1	4392.2	4330.5	4270.3	4250.6	4252.8	4221.7	4220.3	4239.4	4287.9
4.5°	4308.2	4373.0	4345.5	4252.3	4226.8	4232.5	4250.0	4204.7	4198.7	4202.0	4221.1
5°	4313.3	4353.5	4268.9	4202.5	4215.6	4244.3	4259.7	4223.1	4209.7	4197.9	4192.6
5.5°	4308.0	4318.5	4202.4	4183.3	4219.0	4229.9	4220.3	4204.9	4204.1	4204.1	4197.4
6°	4298.6	4265.3	4164.5	4179.3	4195.1	4151.8	4102.8	4115.2	4125.5	4171.2	4201.6
6.5°	4289.0	4204.9	4141.1	4165.4	4121.2	4015.1	3945.1	3967.2	3990.0	4072.2	4160.8
7°	4273.4	4151.9	4130.6	4120.3	3994.8	3861.4	3809.4	3820.0	3841.0	3927.0	4071.1
7.5°	4247.6	4113.2	4109.4	4031.5	3849.7	3751.0	3746.7	3730.5	3729.8	3786.7	3935.2
8°	4210.4	4084.2	4076.8	3918.7	3740.0	3712.2	3736.6	3714.6	3704.6	3703.0	3798.3
8.5°	4177.6	4053.1	4015.9	3793.8	3676.2	3699.3	3701.0	3698.3	3700.0	3685.7	3705.1
9°	4131.0	4028.5	3939.8	3692.6	3656.1	3653.1	3597.4	3609.8	3633.9	3672.6	3681.9
9.5°	4093.0	4001.7	3842.8	3630.0	3630.9	3541.8	3435.4	3467.4	3501.8	3608.7	3678.2
10°	4056.9	3967.9	3743.0	3595.1	3553.1	3384.6	3271.7	3288.4	3330.3	3468.2	3647.2
10.5°	4022.3	3928.9	3656.5	3570.4	3431.1	3229.8	3160.6	3162.8	3180.3	3298.0	3563.7
11°	3998.4	3878.3	3583.0	3522.6	3292.2	3124.2	3102.1	3096.9	3099.2	3154.6	3406.8
11.5°	3973.8	3821.1	3527.5	3435.7	3159.2	3062.7	3032.7	3040.6	3049.1	3080.7	3245.6
12°	3952.2	3760.3	3495.7	3328.1	3062.5	2998.2	2921.5	2938.1	2972.2	3037.0	3127.6
12.5°	3930.7	3691.8	3464.4	3216.0	3006.8	2894.4	2773.0	2791.9	2845.2	2972.4	3065.5
13°	3912.1	3628.5	3421.5	3096.8	2935.3	2753.8	2618.1	2626.4	2681.8	2855.8	3027.6
13.5°	3886.9	3572.8	3364.3	3007.7	2841.5	2606.0	2495.9	2494.2	2535.0	2702.0	2969.6
14°	3856.1	3522.0	3291.4	2944.3	2725.0	2482.4	2397.2	2396.3	2423.4	2546.6	2864.1
14.5°	3824.5	3475.9	3203.9	2875.2	2589.5	2378.7	2296.8	2305.9	2335.7	2431.3	2719.0
15°	3784.9	3437.3	3119.0	2799.7	2466.8	2285.6	2188.2	2193.1	2238.9	2344.6	2562.8
15.5°	3741.2	3400.8	3031.5	2711.6	2364.2	2183.7	2058.7	2057.2	2123.3	2260.2	2437.6
16°	3699.7	3364.7	2953.0	2605.4	2273.6	2067.0	1912.2	1912.4	1980.6	2157.1	2346.0
16.5°	3655.5	3323.4	2891.6	2493.9	2179.7	1933.5	1766.0	1767.4	1829.1	2034.4	2275.8
17°	3614.0	3271.7	2829.0	2396.5	2082.1	1799.0	1644.0	1640.7	1687.2	1879.7	2188.3
17.5°	3574.2	3217.8	2762.0	2299.1	1969.6	1666.9	1543.9	1579.0	1619.2	1734.0	2078.6
18°	3531.8	3161.6	2697.8	2207.1	1838.8	1557.3	1472.1	1517.3	1551.2	1611.5	1948.5
18.5°	3491.2	3093.8	2623.6	2122.3	1720.4	1475.9	1417.0	1455.6	1483.2	1545.9	1811.0
19°	3449.9	3032.4	2538.8	2035.4	1606.9	1413.1	1370.9	1393.8	1415.2	1480.3	1676.0
19.5°	3402.5	2965.0	2451.4	1937.6	1506.6	1361.7	1328.5	1332.2	1347.9	1414.7	1606.1
20°	3357.3	2892.9	2360.2	1840.6	1431.9	1319.8	1287.2	1290.6	1304.3	1349.5	1536.1
20.5°	3314.8	2820.8	2260.7	1730.6	1369.1	1276.5	1242.5	1248.6	1262.5	1308.7	1466.2
21°	3265.8	2760.9	2176.1	1625.0	1320.1	1235.9	1200.0	1204.5	1219.6	1268.1	1396.3
21.5°	3221.6	2697.0	2094.4	1534.3	1278.3	1195.4	1156.8	1160.5	1176.5	1225.7	1327.6
22°	3182.8	2642.8	2014.5	1447.3	1238.1	1152.9	1110.9	1116.0	1132.6	1184.9	1288.0





REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	3140.6	2597.0	1947.0	1378.8	1199.0	1110.9	1067.5	1072.9	1089.2	1144.7	1249.5
23°	3107.2	2552.0	1874.8	1325.1	1161.4	1069.8	1026.1	1029.7	1047.8	1103.0	1212.1
23.5°	3073.0	2499.5	1788.1	1276.4	1122.2	1026.5	983.1	989.2	1007.8	1063.6	1175.2
24°	3041.0	2446.1	1707.7	1236.8	1082.4	986.9	942.0	947.5	965.4	1023.5	1138.2
24.5°	3006.5	2383.2	1625.3	1200.9	1046.1	949.6	903.7	907.9	926.5	984.4	1101.9
25°	2972.4	2308.7	1538.1	1164.6	1006.7	909.4	862.9	868.5	888.0	947.5	1065.3
25.5°	2937.6	2236.8	1465.0	1129.4	967.9	870.0	823.4	828.7	848.2	910.0	1028.6
26°	2901.9	2157.4	1402.7	1097.9	934.0	834.8	787.6	791.0	810.8	873.3	993.2
26.5°	2866.1	2084.0	1340.8	1064.3	898.1	798.2	749.6	755.0	774.7	836.9	959.5
27°	2823.6	2020.9	1294.3	1030.3	861.8	762.1	713.8	717.6	736.2	801.2	924.2
27.5°	2779.6	1960.1	1252.1	998.4	828.7	727.0	691.0	681.5	700.4	765.0	889.9
28°	2733.7	1904.9	1213.6	966.5	795.1	695.4	655.9	648.0	666.8	731.5	855.6
28.5°	2687.4	1854.5	1179.8	933.5	760.5	664.2	620.1	615.0	632.7	697.4	822.7
29°	2645.2	1805.2	1150.8	903.6	729.9	632.9	584.3	582.4	599.2	664.8	789.7
29.5°	2607.2	1756.4	1119.4	872.6	699.1	601.7	548.5	553.0	568.6	634.6	757.8
30°	2567.5	1708.2	1091.6	841.2	670.1	570.5	519.9	524.8	539.1	604.7	726.4
30.5°	2536.0	1655.2	1064.6	813.1	641.1	539.3	494.4	498.4	511.9	574.9	696.0
31°	2508.8	1602.9	1034.3	783.9	612.1	511.7	468.9	473.5	486.3	548.0	666.5
31.5°	2482.2	1557.7	1007.1	754.0	583.1	485.4	444.9	450.2	461.0	522.2	639.1
32°	2464.3	1509.5	980.9	728.0	554.1	462.7	424.4	428.8	438.3	497.3	612.7
32.5°	2444.0	1466.3	953.7	700.5	528.8	439.3	403.6	409.2	417.0	473.8	587.0
33°	2422.6	1430.9	930.4	675.7	504.3	417.4	384.3	390.5	396.9	451.9	562.4
33.5°	2401.7	1395.3	908.2	651.0	482.4	397.9	367.3	373.6	378.7	430.8	539.0
34°	2378.7	1365.6	882.8	626.2	461.1	379.2	351.4	357.6	360.9	410.4	516.4
34.5°	2351.5	1341.3	860.1	601.5	440.0	360.8	336.5	342.6	344.5	391.2	495.1
35°	2326.9	1319.3	839.1	576.8	421.2	345.0	323.7	329.1	330.0	373.6	474.5
35.5°	2299.5	1299.7	816.6	554.4	403.3	330.1	311.2	316.4	316.7	356.7	453.0
36°	2270.2	1284.8	796.5	532.1	385.1	315.7	299.4	304.8	304.0	341.3	433.4
36.5°	2244.0	1268.7	777.4	512.7	368.6	302.9	288.8	294.0	293.0	326.7	414.9
37°	2216.8	1253.8	756.3	492.9	353.2	290.9	278.6	283.4	282.4	313.4	396.5
37.5°	2192.1	1241.1	737.8	474.3	337.6	279.8	268.7	273.6	272.4	301.1	378.9
38°	2169.2	1225.8	720.4	457.2	323.6	269.7	259.4	264.2	263.1	289.6	362.5
38.5°	2148.6	1211.6	701.3	441.0	310.4	260.3	250.7	255.0	254.0	279.0	346.9
39°	2129.8	1199.4	685.0	425.0	297.6	251.3	242.1	246.7	245.6	269.6	332.9
39.5°	2113.2	1185.5	668.8	410.7	285.8	243.0	234.3	238.5	237.6	259.8	318.8
40°	2094.5	1171.1	652.7	396.0	274.8	235.0	226.7	231.2	230.2	250.8	306.0
40.5°	2075.5	1159.8	636.5	382.2	264.1	227.2	219.1	224.0	222.9	242.4	294.3
41°	2059.7	1145.7	620.4	370.3	254.7	220.1	212.7	217.4	216.2	234.1	283.0
41.5°	2043.0	1131.7	604.4	358.4	245.9	213.3	206.4	210.9	209.9	226.5	272.6
42°	2025.5	1119.4	590.2	345.9	236.7	206.6	200.2	204.8	203.8	219.4	263.2
42.5°	2011.2	1105.8	577.1	335.5	228.8	200.6	194.5	198.9	197.9	212.7	254.1
43°	1995.3	1093.8	562.7	325.3	221.6	194.7	188.7	193.2	192.1	206.3	245.4
43.5°	1978.1	1081.8	549.0	314.7	214.0	188.9	183.0	187.7	186.5	200.0	237.2
44°	1963.7	1069.1	536.5	305.0	207.2	183.4	177.7	182.3	181.0	194.0	229.6
44.5°	1949.9	1056.9	523.0	296.4	201.0	178.1	172.9	177.2	175.8	188.5	222.0



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1934.8	1044.6	510.5	287.5	194.7	173.0	167.7	172.6	170.7	182.8	215.1
45.5°	1921.6	1031.7	499.0	279.3	188.9	168.1	163.2	167.9	165.9	177.3	208.3
46°	1909.3	1020.8	486.2	270.9	183.7	163.4	158.7	163.4	161.8	172.1	202.0
46.5°	1894.9	1011.4	475.2	263.0	178.3	158.9	154.3	159.4	157.7	166.9	195.8
47°	1882.6	1000.2	464.9	255.7	173.2	154.3	150.0	155.4	153.6	162.6	190.1
47.5°	1869.6	991.0	454.3	248.5	168.4	150.0	145.9	151.3	149.5	158.4	184.6
48°	1854.3	982.5	445.1	241.3	163.8	145.8	141.8	147.3	145.5	154.1	179.4
48.5°	1840.4	971.7	435.9	235.1	159.3	141.8	137.8	143.1	141.5	149.8	173.9
49°	1822.6	960.3	426.2	228.8	154.8	137.7	133.8	139.1	137.7	145.6	169.0
49.5°	1802.8	950.7	417.8	222.8	150.5	133.7	129.6	135.1	133.7	141.6	164.3
50°	1786.6	938.3	409.7	217.4	146.3	130.0	125.7	131.0	129.9	137.6	159.9
50.5°	1770.1	923.3	400.9	212.2	142.3	126.4	122.0	127.2	126.1	133.8	155.6
51°	1750.7	908.7	393.1	206.9	138.1	122.7	118.2	123.3	122.4	130.1	151.3
51.5°	1735.8	893.7	386.2	202.3	134.3	119.1	114.6	119.6	118.9	126.4	147.0
52°	1718.7	878.1	378.5	197.6	130.5	115.8	111.3	116.2	115.5	122.8	142.9
52.5°	1699.7	865.3	372.2	193.0	126.7	112.4	108.1	112.6	112.1	119.1	138.9
53°	1682.9	851.9	366.0	188.5	123.0	109.0	104.9	109.3	108.8	115.5	135.1
53.5°	1661.4	836.6	358.7	184.3	119.6	105.9	102.1	105.9	105.6	111.9	131.3
54°	1638.9	821.8	352.4	179.9	116.1	102.6	99.0	102.9	102.4	108.4	127.8
54.5°	1617.1	806.8	346.5	175.7	112.7	99.5	96.0	99.9	99.5	105.1	124.3
55°	1597.5	793.2	339.9	171.6	109.5	96.6	93.2	96.9	96.5	101.9	121.1
55.5°	1578.6	779.9	334.2	167.6	106.3	93.6	90.3	94.0	93.5	98.4	117.8
56°	1561.2	765.2	328.7	163.6	103.1	90.6	87.5	91.2	90.6	95.1	114.6
56.5°	1544.5	751.0	322.9	159.6	100.2	87.7	85.0	88.5	87.8	91.9	111.3
57°	1528.2	737.4	316.7	155.5	97.0	84.7	82.5	86.0	85.0	88.7	107.9
57.5°	1515.1	725.4	311.0	151.8	94.0	82.0	80.0	83.4	82.5	85.5	104.6
58°	1499.1	712.9	303.9	148.0	91.0	79.3	77.4	80.7	80.0	82.4	101.3
58.5°	1483.6	702.1	297.2	144.2	87.9	76.6	74.5	77.9	77.1	79.5	98.0
59°	1469.6	691.7	290.9	140.3	84.6	74.0	71.3	74.9	74.3	76.8	94.7
59.5°	1455.6	679.6	284.3	136.6	81.6	71.2	67.9	71.9	71.3	74.1	91.3
60°	1443.9	667.5	277.8	132.7	78.7	67.9	64.4	68.0	68.0	71.1	88.0
60.5°	1433.5	655.4	271.1	129.0	75.8	64.6	60.9	63.6	63.9	67.9	84.8
61°	1417.5	643.3	263.8	125.3	73.2	61.4	57.5	59.3	59.6	64.7	81.7
61.5°	1394.6	632.7	257.4	121.4	70.0	58.1	54.0	56.1	55.7	61.1	78.8
62°	1374.9	620.7	251.9	117.6	67.2	54.8	50.0	51.9	52.5	57.2	75.8
62.5°	1356.6	607.8	246.2	113.9	64.4	51.4	44.3	43.3	47.7	53.2	72.7
63°	1339.4	593.9	240.3	110.2	61.6	47.7	33.6	34.6	38.2	49.7	69.3
63.5°	1319.7	578.7	234.1	106.6	58.8	42.6	21.7	26.0	28.6	43.8	65.8
64°	1297.5	562.7	226.9	103.0	55.6	33.7	9.8	17.3	19.1	35.0	62.3
64.5°	1273.7	547.4	219.9	99.4	52.3	22.4	7.6	8.7	9.5	26.3	58.8
65°	1245.0	530.1	212.5	95.8	48.9	11.3	5.8	0.2	0.4	17.5	54.8
65.5°	1218.6	513.8	204.6	92.2	43.8	2.9	4.0	0.2	0.2	8.7	49.2
66°	1189.8	498.0	198.0	88.4	35.4	2.1	2.1	0.2	0.2	0.3	40.7
66.5°	1161.1	479.4	192.4	84.8	26.2	1.5	0.2	0.2	0.2	0.2	31.0
67°	1133.4	464.1	186.8	81.4	18.2	0.8	0.2	0.2	0.2	0.2	22.2



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	1100.2	449.3	180.7	77.5	14.0	0.2	0.2	0.2	0.2	0.2	18.8
68°	1066.3	432.4	174.1	72.3	13.0	0.2	0.2	0.2	0.2	0.2	18.2
68.5°	1036.5	417.9	167.0	67.5	12.6	0.2	0.2	0.2	0.2	0.2	17.8
69°	1004.4	403.8	160.5	62.7	12.3	0.2	0.2	0.2	0.2	0.2	17.5
69.5°	971.1	389.0	154.1	58.0	12.0	0.2	0.2	0.2	0.2	0.2	17.2
70°	937.2	375.1	146.9	53.2	11.8	0.2	0.2	0.2	0.2	0.2	17.0
70.5°	904.2	361.7	140.2	48.4	11.6	0.2	0.2	0.2	0.2	0.2	16.7
71°	869.0	347.3	133.1	47.1	11.5	0.2	0.2	0.2	0.2	0.2	16.4
71.5°	831.7	332.3	124.2	46.1	11.3	0.2	0.2	0.2	0.2	0.2	16.2
72°	796.9	317.6	115.7	45.0	11.2	0.2	0.2	0.2	0.2	0.2	16.0
72.5°	761.4	301.3	108.7	44.0	11.0	0.2	0.2	0.2	0.2	0.2	15.7
73°	728.0	285.0	103.7	43.0	10.9	0.2	0.2	0.2	0.2	0.2	15.5
73.5°	695.0	271.8	99.8	42.1	10.7	0.2	0.2	0.2	0.2	0.3	15.3
74°	667.9	259.6	96.4	41.2	10.6	0.2	0.2	0.3	0.3	0.3	15.1
74.5°	640.9	248.7	92.7	40.4	10.5	0.2	0.2	0.3	0.3	0.3	14.8
75°	613.8	240.2	89.5	39.4	10.4	0.2	0.2	0.3	0.3	0.3	14.5
75.5°	586.8	232.2	86.4	38.5	10.2	0.2	0.2	0.3	0.3	0.3	14.3
76°	559.7	223.4	83.3	37.6	10.1	0.2	0.2	0.3	0.3	0.3	14.0
76.5°	535.9	215.0	80.5	36.7	9.9	0.2	0.2	0.3	0.3	0.3	13.7
77°	513.8	207.9	77.9	35.7	9.8	0.2	0.2	0.3	0.3	0.3	13.5
77.5°	491.6	199.4	75.2	34.7	9.6	0.3	0.2	0.3	0.3	0.3	13.2
78°	469.1	190.9	72.6	33.7	9.4	0.3	0.2	0.3	0.3	0.3	12.9
78.5°	446.2	181.8	69.7	32.8	9.2	0.3	0.3	0.3	0.3	0.4	12.6
79°	423.1	173.9	67.7	31.8	9.0	0.3	0.3	0.4	0.4	0.4	12.4
79.5°	400.3	166.4	65.8	30.8	8.8	0.3	0.3	0.4	0.4	0.4	12.1
80°	379.9	159.8	63.8	29.9	8.6	0.3	0.3	0.4	0.4	0.4	11.8
80.5°	359.0	153.0	61.9	28.8	8.4	0.3	0.3	0.4	0.4	0.4	11.5
81°	338.2	146.3	59.6	27.8	8.2	0.3	0.3	0.4	0.4	0.4	11.3
81.5°	317.8	139.5	57.3	26.8	8.0	0.3	0.3	0.4	0.4	0.4	11.0
82°	297.3	131.6	54.7	25.8	7.8	0.3	0.3	0.4	0.4	0.4	10.8
82.5°	278.2	123.0	52.2	24.7	7.6	0.3	0.3	0.5	0.5	0.5	10.5
83°	259.5	114.7	49.7	23.7	7.4	0.3	0.3	0.5	0.5	0.5	10.3
83.5°	240.1	107.5	47.1	22.8	7.2	0.3	0.3	0.5	0.5	0.5	10.0
84°	219.6	100.2	44.6	21.8	7.0	0.4	0.4	0.5	0.5	0.5	9.7
84.5°	201.2	92.8	42.2	20.9	6.8	0.4	0.4	0.5	0.5	0.6	9.5
85°	184.9	86.1	39.8	20.0	6.6	0.4	0.4	0.6	0.6	0.6	9.3
85.5°	169.7	79.9	37.6	19.1	6.4	0.4	0.4	0.6	0.6	0.6	9.0
86°	154.9	74.0	35.7	18.3	6.3	0.4	0.4	0.6	0.6	0.6	8.8
86.5°	140.6	68.6	33.7	17.6	6.1	0.4	0.4	0.6	0.7	0.7	8.5
87°	127.7	64.2	32.0	16.9	6.0	0.5	0.5	0.7	0.7	0.7	8.3
87.5°	116.3	59.9	30.4	16.2	5.8	0.5	0.5	0.7	0.7	0.7	8.1
88°	105.5	55.5	28.8	15.6	5.7	0.5	0.5	0.7	0.7	0.8	7.9
88.5°	96.2	51.2	27.5	15.0	5.5	0.5	0.5	0.8	0.8	0.8	7.6
89°	87.6	47.8	26.2	14.5	5.4	0.6	0.5	0.8	0.8	0.8	7.4
89.5°	80.6	44.8	25.1	13.9	5.2	0.6	0.6	0.8	0.8	0.8	7.2



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	74.4	42.1	24.0	13.4	5.0	0.6	0.6	0.9	0.9	0.9	6.9
90.5°	68.6	39.8	23.1	12.9	4.9	0.6	0.6	0.9	0.9	0.9	6.8
91°	65.1	37.9	22.1	12.4	4.8	0.7	0.7	0.9	0.9	1.0	6.6
91.5°	61.8	36.2	21.3	12.0	4.7	0.7	0.7	1.0	1.0	1.0	6.4
92°	58.5	34.8	20.5	11.7	4.6	0.7	0.7	1.0	1.0	1.0	6.3
92.5°	55.2	33.6	19.9	11.4	4.4	0.7	0.7	1.0	1.1	1.1	6.1
93°	53.1	32.6	19.4	11.1	4.3	0.8	0.8	1.1	1.1	1.1	6.0
93.5°	51.4	31.9	19.0	10.8	4.2	0.8	0.8	1.1	1.1	1.1	5.8
94°	49.9	31.4	18.6	10.5	4.1	0.8	0.8	1.2	1.2	1.2	5.7
94.5°	48.9	31.1	18.3	10.3	4.0	0.8	0.8	1.2	1.2	1.2	5.6
95°	48.2	30.7	17.9	10.0	3.9	0.9	0.9	1.2	1.2	1.2	5.5
95.5°	47.7	30.3	17.5	9.9	3.9	0.9	0.9	1.3	1.3	1.3	5.4
96°	47.2	30.0	17.2	9.7	3.8	0.9	0.9	1.3	1.3	1.3	5.3
96.5°	46.7	29.6	16.9	9.6	3.7	0.9	1.0	1.3	1.3	1.3	5.2
97°	46.2	29.3	16.6	9.4	3.6	1.0	1.0	1.4	1.4	1.4	5.1
97.5°	45.6	28.9	16.4	9.3	3.5	1.0	1.0	1.4	1.4	1.4	5.0
98°	44.9	28.6	16.1	9.1	3.5	1.0	1.0	1.5	1.5	1.5	5.0
98.5°	44.2	28.2	15.9	9.0	3.4	1.1	1.1	1.5	1.5	1.5	4.9
99°	43.6	27.8	15.6	8.8	3.4	1.1	1.1	1.5	1.5	1.5	4.8
99.5°	42.9	27.3	15.4	8.7	3.3	1.1	1.1	1.6	1.6	1.6	4.7
100°	42.2	26.8	15.1	8.6	3.3	1.2	1.2	1.6	1.6	1.6	4.6
100.5°	41.6	26.4	15.0	8.5	3.2	1.2	1.2	1.7	1.7	1.6	4.6
101°	40.9	25.9	14.8	8.4	3.2	1.2	1.2	1.7	1.7	1.7	4.5
101.5°	40.3	25.4	14.6	8.3	3.2	1.2	1.3	1.7	1.7	1.7	4.4
102°	39.7	25.0	14.5	8.2	3.1	1.3	1.3	1.8	1.8	1.8	4.4
102.5°	39.2	24.7	14.4	8.1	3.1	1.3	1.3	1.8	1.8	1.8	4.3
103°	38.8	24.3	14.3	8.1	3.1	1.3	1.4	1.9	1.9	1.9	4.2
103.5°	38.4	24.0	14.1	8.0	3.1	1.4	1.4	1.9	1.9	1.9	4.1
104°	38.1	23.8	14.0	7.9	3.0	1.4	1.4	2.0	2.0	2.0	4.0
104.5°	37.9	23.5	13.9	7.9	3.0	1.5	1.5	2.0	2.0	2.0	4.0
105°	37.7	23.3	13.7	7.8	3.0	1.5	1.5	2.1	2.1	2.0	4.0
105.5°	37.6	23.2	13.6	7.7	3.0	1.5	1.6	2.1	2.1	2.1	3.9
106°	37.5	23.1	13.5	7.6	3.0	1.6	1.6	2.2	2.2	2.2	3.9
106.5°	37.4	23.0	13.3	7.5	2.9	1.6	1.6	2.3	2.2	2.2	3.9
107°	37.4	23.0	13.2	7.4	2.9	1.6	1.7	2.3	2.3	2.3	3.9
107.5°	37.4	23.0	13.1	7.3	2.9	1.7	1.7	2.4	2.3	2.3	3.9
108°	37.4	22.9	13.0	7.2	2.9	1.7	1.8	2.4	2.4	2.3	3.9
108.5°	37.4	22.9	12.9	7.1	2.9	1.8	1.8	2.4	2.4	2.4	3.9
109°	37.5	22.9	12.8	7.0	2.9	1.8	1.8	2.5	2.5	2.4	4.0
109.5°	37.5	22.9	12.8	6.9	3.0	1.9	1.9	2.5	2.5	2.5	4.0
110°	37.6	22.9	12.8	6.8	3.0	1.9	1.9	2.6	2.5	2.5	4.0
110.5°	37.6	22.8	12.7	6.8	3.0	1.9	2.0	2.6	2.6	2.5	4.0
111°	37.6	22.8	12.8	6.7	3.1	2.0	2.0	2.6	2.6	2.6	4.0
111.5°	37.6	22.7	12.8	6.7	3.1	2.0	2.1	2.7	2.6	2.6	4.0
112°	37.7	22.7	12.8	6.7	3.1	2.1	2.1	2.7	2.7	2.6	4.0



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	37.7	22.6	12.9	6.7	3.2	2.1	2.2	2.8	2.7	2.7	4.0
113°	37.8	22.6	12.9	6.7	3.2	2.2	2.2	2.8	2.8	2.7	4.1
113.5°	37.8	22.5	12.9	6.7	3.3	2.3	2.3	2.8	2.8	2.7	4.1
114°	37.8	22.5	12.8	6.7	3.3	2.3	2.4	2.9	2.8	2.8	4.1
114.5°	37.8	22.4	12.8	6.7	3.4	2.4	2.4	2.9	2.8	2.8	4.1
115°	37.8	22.4	12.8	6.8	3.4	2.4	2.5	2.9	2.9	2.8	4.1
115.5°	37.8	22.3	12.7	6.9	3.5	2.5	2.5	3.0	2.9	2.9	4.2
116°	37.9	22.3	12.7	7.0	3.6	2.5	2.6	3.0	3.0	2.9	4.2
116.5°	37.9	22.3	12.6	7.1	3.7	2.6	2.6	3.0	3.0	2.9	4.2
117°	38.0	22.2	12.6	7.2	3.7	2.6	2.7	3.1	3.0	3.0	4.3
117.5°	38.1	22.2	12.6	7.3	3.8	2.7	2.7	3.1	3.1	3.0	4.3
118°	38.2	22.1	12.6	7.4	3.9	2.8	2.8	3.1	3.1	3.1	4.3
118.5°	38.2	22.1	12.6	7.5	4.0	2.8	2.9	3.2	3.1	3.1	4.3
119°	38.3	22.1	12.6	7.5	4.0	2.9	2.9	3.2	3.2	3.1	4.4
119.5°	38.3	22.0	12.6	7.6	4.1	3.0	3.0	3.2	3.2	3.2	4.4
120°	38.4	22.0	12.6	7.7	4.2	3.1	3.1	3.3	3.2	3.2	4.4
120.5°	38.4	22.0	12.6	7.8	4.2	3.1	3.2	3.3	3.3	3.2	4.5
121°	38.5	22.0	12.6	7.8	4.3	3.2	3.2	3.4	3.3	3.3	4.5
121.5°	38.5	22.0	12.7	7.9	4.3	3.3	3.3	3.4	3.4	3.3	4.5
122°	38.5	22.0	12.7	8.0	4.4	3.3	3.3	3.5	3.4	3.4	4.6
122.5°	38.5	22.0	12.8	8.1	4.4	3.4	3.4	3.5	3.5	3.4	4.6
123°	38.6	22.1	12.8	8.1	4.5	3.4	3.5	3.5	3.5	3.5	4.7
123.5°	38.6	22.1	12.9	8.2	4.5	3.5	3.5	3.6	3.6	3.5	4.7
124°	38.6	22.2	13.0	8.2	4.6	3.6	3.6	3.6	3.6	3.5	4.8
124.5°	38.7	22.3	13.1	8.3	4.6	3.6	3.7	3.7	3.6	3.6	4.9
125°	38.7	22.4	13.1	8.4	4.7	3.7	3.7	3.7	3.7	3.6	4.9
125.5°	38.9	22.6	13.2	8.4	4.7	3.7	3.8	3.8	3.8	3.7	5.0
126°	39.0	22.7	13.3	8.4	4.7	3.8	3.8	3.9	3.8	3.8	5.1
126.5°	39.2	22.9	13.5	8.5	4.8	3.8	3.9	3.9	3.9	3.8	5.2
127°	39.4	23.0	13.5	8.5	4.8	3.9	3.9	4.0	4.0	3.9	5.3
127.5°	39.6	23.2	13.6	8.6	4.8	3.9	4.0	4.1	4.0	4.0	5.3
128°	39.9	23.3	13.7	8.6	4.9	4.0	4.0	4.1	4.1	4.0	5.4
128.5°	40.2	23.5	13.8	8.7	4.9	4.1	4.1	4.2	4.2	4.1	5.5
129°	40.5	23.7	13.9	8.7	4.9	4.1	4.2	4.3	4.2	4.2	5.5
129.5°	40.8	23.8	14.0	8.7	5.0	4.1	4.2	4.3	4.3	4.2	5.6
130°	41.1	24.0	14.1	8.7	5.0	4.2	4.3	4.4	4.4	4.3	5.6
130.5°	41.4	24.2	14.2	8.8	5.0	4.3	4.3	4.5	4.4	4.3	5.6
131°	41.7	24.4	14.3	8.8	5.1	4.3	4.4	4.5	4.5	4.4	5.7
131.5°	42.0	24.6	14.4	8.8	5.1	4.4	4.4	4.6	4.6	4.5	5.7
132°	42.3	24.8	14.5	8.9	5.2	4.4	4.5	4.7	4.6	4.5	5.8
132.5°	42.7	24.9	14.6	8.9	5.2	4.5	4.5	4.7	4.7	4.6	5.8
133°	43.0	25.1	14.7	8.9	5.2	4.5	4.6	4.8	4.8	4.7	5.8
133.5°	43.3	25.3	14.8	9.0	5.2	4.6	4.6	4.9	4.8	4.8	5.9
134°	43.6	25.4	14.9	9.0	5.3	4.6	4.7	4.9	4.9	4.8	5.9
134.5°	43.9	25.5	14.9	9.0	5.3	4.6	4.7	5.0	5.0	4.9	6.0



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	44.1	25.7	15.0	9.0	5.3	4.7	4.8	5.1	5.0	4.9	6.0
135.5°	44.4	25.7	15.0	9.0	5.3	4.7	4.8	5.1	5.1	5.0	6.0
136°	44.6	25.8	15.1	9.0	5.3	4.7	4.8	5.2	5.2	5.1	6.0
136.5°	44.9	25.9	15.1	9.0	5.3	4.8	4.8	5.3	5.2	5.1	6.1
137°	45.0	26.0	15.1	9.0	5.4	4.8	4.9	5.3	5.3	5.2	6.1
137.5°	45.2	26.0	15.1	9.0	5.4	4.8	4.9	5.4	5.3	5.3	6.1
138°	45.4	26.1	15.2	9.0	5.4	4.9	5.0	5.4	5.4	5.3	6.2
138.5°	45.5	26.1	15.2	9.0	5.4	4.9	5.0	5.5	5.5	5.4	6.2
139°	45.6	26.1	15.2	9.0	5.5	5.0	5.1	5.5	5.5	5.4	6.2
139.5°	45.6	26.1	15.1	9.0	5.5	5.0	5.1	5.6	5.6	5.5	6.2
140°	45.6	26.0	15.1	9.0	5.5	5.0	5.1	5.6	5.6	5.5	6.2
140.5°	45.6	26.0	15.1	9.0	5.5	5.0	5.1	5.6	5.6	5.6	6.3
141°	45.5	26.0	15.0	8.9	5.5	5.1	5.2	5.7	5.7	5.6	6.3
141.5°	45.4	25.9	15.0	8.9	5.5	5.1	5.2	5.7	5.7	5.6	6.3
142°	45.2	25.8	14.9	8.8	5.5	5.1	5.2	5.8	5.8	5.7	6.3
142.5°	45.0	25.7	14.8	8.8	5.5	5.1	5.2	5.8	5.8	5.7	6.3
143°	44.7	25.6	14.7	8.7	5.5	5.1	5.2	5.8	5.8	5.8	6.3
143.5°	44.5	25.5	14.6	8.7	5.5	5.1	5.2	5.9	5.9	5.8	6.3
144°	44.1	25.4	14.5	8.6	5.4	5.2	5.2	5.9	5.9	5.8	6.3
144.5°	43.7	25.2	14.4	8.6	5.4	5.2	5.3	5.9	5.9	5.9	6.3
145°	43.3	25.1	14.3	8.5	5.4	5.2	5.3	5.9	5.9	5.9	6.3
145.5°	42.8	24.9	14.2	8.4	5.4	5.2	5.3	6.0	6.0	5.9	6.3
146°	42.3	24.8	14.1	8.4	5.4	5.2	5.3	6.0	6.0	5.9	6.3
146.5°	41.7	24.6	13.9	8.3	5.4	5.2	5.3	6.0	6.0	5.9	6.2
147°	41.0	24.4	13.8	8.2	5.4	5.2	5.3	6.0	6.0	5.9	6.2
147.5°	40.4	24.1	13.7	8.1	5.4	5.2	5.3	6.0	6.0	5.9	6.2
148°	39.6	23.9	13.5	8.1	5.3	5.2	5.4	6.0	6.0	5.9	6.1
148.5°	38.8	23.6	13.4	8.0	5.3	5.3	5.4	6.0	6.0	5.9	6.1
149°	38.0	23.4	13.2	7.9	5.3	5.3	5.4	6.0	6.0	5.9	6.1
149.5°	37.2	23.1	13.1	7.8	5.3	5.3	5.4	5.9	6.0	5.9	6.0
150°	36.2	22.7	12.9	7.7	5.3	5.3	5.4	5.9	5.9	5.9	6.0
150.5°	35.3	22.4	12.8	7.6	5.3	5.3	5.4	5.9	5.9	5.9	5.9
151°	34.4	22.0	12.6	7.6	5.2	5.3	5.4	5.9	5.9	5.9	5.9
151.5°	33.4	21.7	12.5	7.5	5.2	5.3	5.4	5.9	5.9	5.9	5.8
152°	32.4	21.3	12.3	7.4	5.2	5.3	5.4	5.9	5.9	5.9	5.8
152.5°	31.5	20.9	12.1	7.3	5.2	5.3	5.4	5.9	5.9	5.8	5.8
153°	30.4	20.4	11.9	7.2	5.2	5.3	5.4	5.8	5.8	5.8	5.7
153.5°	29.4	20.0	11.7	7.1	5.1	5.3	5.4	5.8	5.8	5.8	5.7
154°	28.4	19.5	11.5	6.9	5.1	5.3	5.4	5.8	5.8	5.8	5.6
154.5°	27.4	19.0	11.3	6.8	5.1	5.3	5.4	5.8	5.8	5.7	5.6
155°	26.3	18.5	11.1	6.7	5.1	5.3	5.4	5.7	5.7	5.7	5.6
155.5°	25.3	18.0	10.8	6.5	5.1	5.3	5.4	5.7	5.7	5.7	5.5
156°	24.3	17.5	10.6	6.4	5.1	5.3	5.5	5.7	5.7	5.6	5.5
156.5°	23.2	16.9	10.4	6.3	5.1	5.3	5.5	5.7	5.6	5.6	5.5
157°	22.2	16.3	10.1	6.1	5.1	5.4	5.5	5.6	5.6	5.6	5.4



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	21.3	15.8	9.9	6.0	5.1	5.4	5.5	5.6	5.6	5.6	5.4
158°	20.3	15.2	9.6	5.8	5.1	5.4	5.5	5.6	5.6	5.6	5.4
158.5°	19.3	14.6	9.3	5.7	5.2	5.4	5.6	5.6	5.6	5.5	5.4
159°	18.4	14.0	9.1	5.5	5.2	5.5	5.6	5.6	5.6	5.5	5.4
159.5°	17.5	13.4	8.7	5.4	5.2	5.5	5.6	5.6	5.6	5.5	5.4
160°	16.6	12.8	8.4	5.3	5.2	5.5	5.6	5.6	5.5	5.5	5.3
160.5°	15.7	12.2	8.1	5.2	5.2	5.5	5.7	5.5	5.5	5.5	5.3
161°	14.8	11.6	7.7	5.2	5.2	5.5	5.6	5.5	5.5	5.4	5.3
161.5°	13.9	11.0	7.4	5.2	5.2	5.5	5.6	5.5	5.5	5.4	5.3
162°	13.1	10.4	7.1	5.1	5.2	5.5	5.6	5.4	5.4	5.4	5.2
162.5°	12.2	9.8	6.7	5.0	5.2	5.5	5.6	5.4	5.4	5.3	5.2
163°	11.5	9.2	6.4	4.9	5.2	5.5	5.6	5.4	5.4	5.3	5.2
163.5°	10.7	8.7	6.0	5.0	5.2	5.5	5.7	5.3	5.3	5.3	5.1
164°	10.0	8.1	5.8	5.0	5.3	5.5	5.7	5.3	5.3	5.2	5.1
164.5°	9.4	7.6	5.6	5.0	5.3	5.6	5.7	5.3	5.3	5.2	5.1
165°	8.7	7.2	5.4	5.1	5.4	5.6	5.8	5.2	5.2	5.2	5.1
165.5°	8.2	6.8	5.2	5.2	5.4	5.7	5.8	5.2	5.2	5.2	5.1
166°	7.6	6.4	5.1	5.3	5.5	5.7	5.9	5.2	5.2	5.2	5.1
166.5°	7.2	6.0	5.2	5.3	5.6	5.8	6.0	5.2	5.2	5.2	5.1
167°	6.7	5.7	5.2	5.4	5.6	5.9	6.0	5.2	5.2	5.2	5.1
167.5°	6.2	5.3	5.3	5.4	5.7	5.9	6.0	5.2	5.2	5.2	5.1
168°	5.7	5.1	5.3	5.5	5.7	5.9	6.1	5.2	5.2	5.2	5.1
168.5°	5.3	5.1	5.3	5.5	5.7	5.9	6.1	5.2	5.2	5.2	5.1
169°	5.0	5.1	5.3	5.5	5.7	5.9	6.1	5.2	5.2	5.2	5.1
169.5°	4.9	5.1	5.3	5.5	5.7	6.0	6.1	5.2	5.2	5.1	5.0
170°	4.9	5.2	5.4	5.5	5.8	6.0	6.2	5.1	5.1	5.1	5.0
170.5°	5.0	5.2	5.4	5.6	5.8	6.0	6.2	5.1	5.1	5.0	4.9
171°	5.0	5.2	5.4	5.6	5.8	6.1	6.3	5.1	5.1	5.0	4.9
171.5°	5.0	5.3	5.5	5.6	5.9	6.1	6.3	5.1	5.1	5.0	4.9
172°	5.1	5.4	5.6	5.7	6.0	6.2	6.4	5.1	5.1	5.0	4.9
172.5°	5.2	5.5	5.6	5.8	6.0	6.3	6.5	5.1	5.0	4.9	4.8
173°	5.3	5.5	5.7	5.9	6.1	6.4	6.6	5.0	5.0	4.9	4.8
173.5°	5.4	5.6	5.8	6.0	6.2	6.5	6.7	5.0	5.0	4.9	4.8
174°	5.4	5.6	5.9	6.0	6.2	6.5	6.7	5.0	4.9	4.9	4.7
174.5°	5.4	5.6	5.9	6.0	6.2	6.5	6.7	4.9	4.9	4.9	4.7
175°	5.5	5.6	5.8	6.0	6.2	6.5	6.7	4.9	4.9	4.8	4.7
175.5°	5.5	5.7	5.8	6.0	6.2	6.4	6.6	4.9	4.9	4.8	4.7
176°	5.5	5.7	5.8	6.0	6.2	6.4	6.6	4.8	4.8	4.8	4.6
176.5°	5.5	5.6	5.8	6.0	6.2	6.4	6.6	4.8	4.8	4.7	4.6
177°	5.5	5.6	5.8	5.9	6.1	6.3	6.5	4.7	4.7	4.7	4.5
177.5°	5.4	5.6	5.7	5.9	6.0	6.3	6.4	4.7	4.7	4.6	4.5
178°	5.4	5.5	5.7	5.8	6.0	6.2	6.4	4.7	4.6	4.6	4.5
178.5°	5.3	5.5	5.6	5.8	5.9	6.1	6.3	4.6	4.6	4.5	4.4
179°	5.3	5.4	5.6	5.7	5.9	6.1	6.3	4.6	4.5	4.5	4.4
179.5°	5.2	5.4	5.5	5.7	5.8	6.0	6.2	4.5	4.5	4.5	4.4



REPORT NUMBER: P973046  
CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5





REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9
0.5°	4273.5	4279.5	4290.5	4303.0	4314.6	4328.5	4343.9	4358.0	4367.9	4378.1	4391.2
1°	4252.4	4255.4	4270.0	4288.9	4306.0	4329.4	4358.6	4388.3	4416.4	4430.4	4441.4
1.5°	4281.9	4269.5	4262.4	4271.1	4296.0	4330.5	4369.0	4415.8	4437.2	4431.4	4410.5
2°	4323.5	4296.8	4279.3	4266.3	4284.8	4327.4	4384.9	4429.4	4418.0	4374.6	4313.8
2.5°	4364.8	4332.8	4307.1	4274.4	4275.7	4325.1	4395.7	4427.0	4370.2	4269.3	4159.2
3°	4396.3	4367.7	4328.1	4287.7	4269.6	4320.3	4403.4	4404.4	4286.1	4141.4	4016.1
3.5°	4401.9	4388.1	4351.7	4302.6	4265.9	4320.3	4412.1	4363.4	4196.3	4026.2	3936.0
4°	4356.8	4391.7	4373.9	4317.3	4271.3	4321.0	4415.6	4324.6	4103.7	3938.5	3906.1
4.5°	4281.4	4371.6	4394.7	4342.4	4274.7	4318.0	4413.8	4265.6	4006.1	3904.5	3923.6
5°	4219.9	4320.1	4400.2	4361.6	4280.1	4313.5	4410.2	4195.0	3945.2	3906.1	3938.5
5.5°	4189.9	4259.0	4386.1	4375.7	4272.7	4308.9	4393.7	4123.9	3904.1	3923.5	3896.2
6°	4193.9	4212.3	4351.4	4378.3	4273.0	4302.3	4373.3	4047.0	3888.0	3931.5	3790.5
6.5°	4211.0	4192.7	4300.9	4378.1	4272.4	4293.3	4349.0	3973.9	3895.0	3894.7	3652.6
7°	4195.9	4196.5	4248.4	4377.0	4270.8	4287.7	4318.1	3926.4	3905.9	3797.1	3544.1
7.5°	4140.4	4201.2	4197.4	4369.7	4274.0	4281.5	4282.5	3888.7	3909.8	3669.3	3518.5
8°	4046.2	4196.9	4171.7	4348.8	4279.8	4270.1	4244.4	3862.0	3883.5	3564.0	3580.6
8.5°	3917.1	4163.8	4160.5	4317.6	4279.6	4258.4	4202.9	3854.1	3830.8	3499.0	3702.0
9°	3784.3	4103.6	4162.1	4275.4	4280.9	4250.0	4160.5	3853.4	3743.5	3506.4	3819.3
9.5°	3704.3	4013.0	4160.1	4233.3	4281.8	4238.2	4106.1	3849.7	3648.8	3557.6	3883.1
10°	3669.3	3897.8	4155.7	4185.6	4280.0	4228.6	4063.3	3857.1	3558.3	3659.4	3866.9
10.5°	3665.4	3788.8	4136.4	4149.6	4279.2	4220.4	4022.1	3853.7	3479.8	3761.4	3792.2
11°	3650.7	3692.5	4100.5	4119.3	4277.9	4207.5	3975.6	3837.4	3454.3	3827.1	3727.7
11.5°	3608.6	3637.9	4044.8	4096.1	4271.7	4198.8	3936.4	3808.5	3465.4	3852.7	3709.9
12°	3495.4	3611.9	3971.2	4085.4	4264.3	4185.7	3892.3	3767.5	3507.5	3811.3	3771.3
12.5°	3351.5	3606.7	3889.1	4076.5	4253.6	4170.9	3850.5	3706.2	3572.4	3749.7	3888.9
13°	3200.8	3598.7	3791.0	4068.1	4241.7	4155.5	3814.8	3645.5	3641.4	3700.0	4053.5
13.5°	3092.9	3561.5	3698.4	4053.8	4215.3	4139.7	3785.9	3575.1	3706.3	3682.4	4179.6
14°	3031.7	3486.4	3624.5	4040.2	4197.7	4124.7	3755.6	3499.3	3743.8	3710.3	4225.0
14.5°	2996.3	3376.7	3559.0	4018.2	4171.5	4102.5	3733.3	3446.5	3753.4	3785.2	4203.0
15°	2951.1	3235.9	3519.0	3991.8	4147.0	4084.9	3710.5	3399.3	3734.1	3899.8	4137.1
15.5°	2872.0	3113.1	3498.4	3958.5	4118.8	4067.7	3695.5	3370.8	3687.0	4008.5	4074.8
16°	2751.1	3015.5	3480.3	3921.5	4089.2	4049.9	3678.5	3358.7	3640.6	4091.8	4065.0
16.5°	2611.7	2952.7	3464.0	3879.4	4058.5	4032.2	3664.3	3364.2	3604.5	4126.3	4117.2
17°	2476.4	2915.2	3442.6	3834.5	4029.4	4010.2	3650.5	3381.8	3591.4	4115.8	4196.0
17.5°	2364.0	2881.7	3395.9	3774.0	3996.0	3989.4	3632.1	3402.1	3599.6	4073.0	4274.4
18°	2280.6	2828.7	3324.3	3709.3	3960.7	3969.2	3617.7	3433.5	3635.5	4009.4	4331.1
18.5°	2209.8	2749.6	3229.2	3639.2	3924.7	3947.1	3597.2	3462.8	3691.0	3968.4	4362.9
19°	2136.9	2640.6	3119.3	3559.6	3885.1	3926.8	3580.9	3485.5	3750.7	3963.0	4387.9
19.5°	2047.6	2521.1	3016.7	3488.7	3852.7	3901.7	3561.0	3506.7	3818.4	3994.3	4422.3
20°	1943.8	2402.4	2928.9	3421.4	3815.9	3882.6	3533.3	3517.9	3866.2	4050.4	4493.6
20.5°	1823.6	2304.3	2850.4	3362.6	3786.2	3857.4	3507.1	3509.8	3895.7	4112.3	4609.5
21°	1706.8	2224.2	2795.5	3313.3	3756.1	3832.8	3475.3	3491.9	3909.3	4172.3	4768.7
21.5°	1635.1	2159.9	2756.2	3272.7	3725.0	3801.7	3438.1	3468.3	3897.5	4214.0	4937.3
22°	1563.3	2099.8	2717.2	3236.7	3697.7	3772.4	3404.0	3439.6	3865.6	4241.5	5107.4



REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1491.5	2028.9	2674.1	3210.8	3673.9	3746.3	3372.3	3414.5	3819.2	4256.8	5251.9
23°	1419.7	1954.6	2622.1	3186.2	3648.8	3717.8	3336.6	3388.9	3775.4	4276.9	5336.5
23.5°	1349.7	1873.8	2555.6	3165.3	3629.0	3693.4	3299.9	3373.1	3743.8	4316.1	5401.8
24°	1309.4	1781.9	2475.1	3139.1	3604.6	3664.9	3259.5	3358.5	3729.7	4392.7	5477.6
24.5°	1274.3	1693.7	2395.1	3106.0	3580.9	3640.8	3216.8	3349.4	3736.6	4492.3	5561.3
25°	1240.7	1610.3	2312.5	3065.0	3557.8	3620.0	3180.9	3345.7	3758.2	4614.4	5673.2
25.5°	1206.4	1554.9	2238.8	3013.5	3536.3	3596.1	3145.0	3350.6	3792.3	4754.9	5807.4
26°	1173.6	1499.5	2168.9	2958.3	3511.6	3576.0	3108.9	3367.0	3824.1	4856.6	5904.1
26.5°	1140.8	1444.1	2105.1	2894.7	3491.7	3556.0	3083.7	3381.5	3852.1	4937.7	5968.8
27°	1108.3	1388.7	2050.8	2838.1	3468.3	3540.0	3059.3	3408.5	3882.4	5003.3	6000.9
27.5°	1075.2	1333.9	1996.3	2774.0	3446.2	3519.9	3038.4	3435.1	3900.3	5041.4	6010.6
28°	1040.6	1300.1	1943.0	2718.0	3420.7	3503.9	3022.8	3453.9	3914.1	5072.0	6020.4
28.5°	1008.2	1269.3	1893.9	2673.9	3398.7	3485.4	3005.6	3476.0	3932.6	5117.0	6044.0
29°	975.9	1239.9	1840.7	2630.8	3371.1	3470.8	2993.7	3490.6	3955.1	5172.7	6062.2
29.5°	942.8	1209.0	1786.4	2592.7	3345.2	3452.9	2983.7	3491.0	3977.8	5240.0	6059.3
30°	910.7	1179.8	1737.3	2563.5	3319.9	3435.9	2972.0	3485.8	4019.3	5320.3	6032.4
30.5°	878.0	1151.2	1686.1	2532.8	3292.3	3417.6	2963.7	3470.0	4069.5	5377.5	5990.5
31°	845.9	1121.2	1635.8	2501.9	3263.5	3401.7	2956.0	3448.2	4121.8	5402.2	5948.2
31.5°	815.4	1091.4	1589.4	2474.1	3236.3	3385.6	2949.0	3421.2	4201.3	5411.8	5914.7
32°	786.3	1062.1	1545.6	2442.2	3206.2	3369.6	2947.8	3389.3	4268.6	5403.0	5889.5
32.5°	756.3	1031.8	1513.4	2405.1	3182.0	3354.5	2946.4	3362.7	4319.3	5395.5	5857.9
33°	728.1	1002.3	1481.2	2373.6	3156.1	3342.1	2948.2	3346.0	4365.4	5397.2	5817.9
33.5°	701.3	973.7	1449.0	2336.2	3133.4	3329.1	2947.8	3336.6	4397.6	5400.4	5765.9
34°	674.7	944.5	1416.9	2302.4	3107.2	3317.6	2948.2	3332.2	4414.6	5398.9	5711.0
34.5°	650.0	914.9	1385.0	2272.3	3082.2	3308.5	2947.6	3335.2	4431.2	5388.2	5660.7
35°	626.7	886.9	1362.5	2242.9	3060.2	3298.4	2947.9	3343.6	4441.6	5363.7	5619.8
35.5°	602.6	857.3	1341.6	2215.5	3042.5	3288.8	2945.0	3348.4	4446.8	5326.4	5576.2
36°	581.7	830.7	1324.2	2194.2	3025.7	3278.4	2944.7	3353.6	4462.0	5284.5	5522.7
36.5°	560.9	804.9	1306.7	2171.3	3011.8	3271.2	2942.9	3360.6	4485.2	5244.4	5459.7
37°	539.3	779.0	1288.5	2151.9	2999.9	3264.8	2935.2	3360.4	4506.5	5207.0	5397.3
37.5°	519.8	755.8	1271.7	2135.6	2987.9	3257.3	2926.0	3361.6	4527.1	5172.4	5334.3
38°	501.2	735.3	1254.6	2115.8	2979.3	3251.4	2914.1	3364.7	4543.4	5135.0	5287.4
38.5°	482.4	714.4	1237.4	2099.7	2972.6	3246.9	2899.9	3367.8	4549.3	5100.0	5247.0
39°	465.3	694.6	1221.4	2085.1	2968.0	3241.5	2888.7	3371.2	4552.3	5060.7	5198.5
39.5°	447.8	676.3	1202.6	2065.9	2961.9	3235.5	2873.1	3379.6	4548.9	5017.1	5153.1
40°	430.8	658.5	1185.6	2051.9	2956.3	3231.7	2863.0	3387.6	4536.6	4981.8	5110.0
40.5°	414.4	641.9	1168.8	2036.8	2946.2	3221.2	2852.8	3396.5	4524.9	4952.1	5069.4
41°	398.5	626.7	1150.4	2019.3	2935.7	3211.9	2843.1	3407.9	4514.0	4916.4	5031.8
41.5°	383.6	611.5	1133.0	2002.7	2925.3	3201.6	2835.5	3415.8	4504.3	4882.5	5003.4
42°	370.1	598.2	1116.8	1986.9	2911.3	3192.3	2827.7	3424.0	4500.2	4846.9	4979.2
42.5°	356.2	584.2	1098.7	1967.9	2896.4	3184.7	2822.1	3436.5	4496.4	4810.6	4953.2
43°	343.0	571.2	1081.9	1951.2	2881.9	3178.5	2818.4	3443.9	4484.4	4773.1	4921.3
43.5°	331.2	559.0	1066.2	1935.4	2868.2	3175.3	2817.9	3451.1	4468.6	4738.3	4891.9
44°	319.4	547.0	1049.1	1915.8	2855.3	3172.6	2820.6	3465.6	4445.8	4708.5	4864.3
44.5°	308.2	534.9	1033.0	1899.7	2843.9	3168.8	2823.5	3475.3	4413.3	4682.3	4847.6



REPORT NUMBER: P973046

CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	298.0	524.2	1019.8	1884.7	2833.0	3167.3	2826.1	3485.2	4381.5	4655.7	4833.1
45.5°	288.3	513.3	1006.7	1866.2	2823.3	3163.1	2828.8	3499.3	4355.4	4627.2	4819.0
46°	279.1	502.3	995.6	1851.3	2813.1	3159.9	2830.8	3507.9	4330.7	4594.1	4805.9
46.5°	270.8	492.2	986.2	1835.4	2801.3	3154.6	2830.1	3512.1	4310.6	4560.6	4796.2
47°	262.7	482.1	976.7	1819.1	2789.6	3148.7	2828.9	3521.1	4290.7	4527.8	4784.8
47.5°	255.3	471.6	969.4	1804.7	2778.3	3143.1	2826.5	3525.3	4267.7	4497.2	4773.9
48°	248.9	462.5	962.4	1788.5	2765.1	3135.8	2820.9	3527.8	4242.3	4466.7	4764.9
48.5°	242.1	453.0	954.9	1770.6	2754.1	3126.7	2813.5	3537.0	4215.7	4431.4	4755.2
49°	236.1	444.1	948.3	1754.1	2744.8	3118.9	2802.8	3543.0	4189.3	4395.5	4739.0
49.5°	230.3	435.8	942.3	1736.3	2733.0	3109.4	2792.4	3551.7	4167.6	4355.6	4723.9
50°	224.5	427.5	934.4	1716.9	2720.1	3100.1	2778.9	3563.3	4142.8	4314.2	4701.9
50.5°	219.1	419.5	928.5	1699.4	2708.7	3091.1	2763.0	3565.9	4116.4	4276.4	4676.3
51°	214.1	412.3	921.9	1678.7	2692.9	3081.4	2744.7	3567.8	4090.1	4234.3	4645.4
51.5°	208.9	404.6	913.3	1657.9	2677.6	3068.5	2723.3	3568.0	4056.7	4195.9	4610.2
52°	204.1	397.6	906.6	1640.7	2662.4	3051.1	2701.5	3560.3	4020.9	4162.1	4577.8
52.5°	199.5	390.5	897.9	1621.6	2646.5	3033.8	2676.5	3550.9	3981.8	4120.3	4542.0
53°	194.8	382.9	887.3	1604.1	2627.8	3012.2	2648.6	3538.1	3939.1	4079.0	4505.5
53.5°	190.4	375.7	878.2	1588.3	2609.8	2988.7	2619.8	3516.4	3894.9	4036.5	4480.9
54°	186.0	368.6	867.1	1571.4	2588.9	2960.4	2588.8	3490.6	3846.8	3992.5	4449.5
54.5°	181.4	361.2	856.8	1552.3	2566.4	2928.0	2555.2	3463.1	3799.5	3949.3	4410.5
55°	177.3	354.4	846.1	1536.2	2540.5	2889.4	2522.4	3433.4	3752.9	3908.7	4379.2
55.5°	172.9	347.4	834.3	1520.4	2514.3	2848.8	2484.7	3398.3	3704.8	3867.1	4337.5
56°	168.5	340.2	821.9	1504.6	2483.5	2803.9	2445.0	3359.6	3649.6	3821.7	4296.0
56.5°	164.4	333.7	811.4	1490.9	2453.7	2758.7	2404.2	3318.2	3598.7	3777.7	4257.2
57°	160.4	327.3	799.3	1478.0	2420.7	2706.8	2364.0	3270.3	3547.1	3734.4	4206.2
57.5°	156.4	320.8	787.0	1465.2	2388.1	2657.0	2321.6	3218.6	3498.0	3692.8	4160.0
58°	152.4	314.8	775.2	1453.1	2356.4	2605.8	2278.7	3160.3	3447.1	3642.9	4113.0
58.5°	148.4	308.8	763.0	1441.1	2324.6	2558.3	2239.5	3105.9	3394.6	3596.1	4059.6
59°	144.4	301.9	749.8	1429.0	2293.8	2511.0	2196.2	3047.3	3339.0	3544.6	3991.8
59.5°	140.3	295.0	736.3	1416.9	2260.7	2462.6	2155.4	2989.2	3284.6	3497.1	3925.1
60°	136.2	287.5	722.3	1404.8	2226.9	2413.9	2116.1	2931.9	3231.0	3452.6	3858.7
60.5°	132.1	279.7	707.2	1390.2	2194.0	2366.9	2076.0	2876.7	3178.1	3411.2	3783.8
61°	128.0	272.9	693.0	1375.0	2159.2	2317.4	2035.3	2816.7	3126.0	3369.2	3703.5
61.5°	124.0	266.1	676.9	1357.2	2125.4	2270.0	1996.0	2760.8	3070.8	3319.5	3630.9
62°	120.0	259.6	659.8	1337.4	2092.7	2222.8	1960.3	2702.0	3010.8	3262.8	3555.4
62.5°	116.3	253.2	643.7	1315.5	2058.7	2177.3	1922.7	2651.0	2951.6	3203.5	3478.7
63°	112.2	246.3	624.9	1290.2	2024.4	2135.6	1887.0	2595.3	2891.8	3138.7	3403.4
63.5°	108.4	239.3	607.4	1262.8	1989.8	2095.9	1850.9	2538.8	2833.0	3062.7	3321.9
64°	104.8	232.6	589.8	1237.2	1955.9	2054.0	1816.2	2485.2	2772.6	2985.0	3243.6
64.5°	101.3	225.4	571.5	1211.1	1918.6	2010.0	1780.3	2435.3	2713.5	2911.7	3171.7
65°	97.6	217.7	551.9	1186.5	1882.1	1966.7	1742.5	2382.2	2653.0	2836.0	3097.3
65.5°	94.2	210.3	534.6	1161.5	1841.4	1925.2	1705.6	2331.1	2592.4	2756.8	3023.5
66°	90.4	203.1	515.7	1133.0	1802.2	1880.1	1668.7	2281.3	2532.1	2684.5	2950.8
66.5°	86.8	195.6	497.7	1104.7	1762.9	1833.8	1628.4	2230.5	2469.3	2612.5	2875.8
67°	82.8	188.8	479.7	1077.0	1722.6	1789.6	1588.7	2176.1	2408.0	2538.3	2805.9



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	78.5	182.6	463.1	1047.2	1680.6	1749.6	1550.4	2123.3	2343.8	2467.6	2740.4
68°	71.9	176.1	446.1	1015.6	1638.5	1709.7	1511.7	2070.6	2276.7	2395.6	2670.6
68.5°	64.5	169.8	430.3	984.5	1594.9	1666.9	1473.0	2022.0	2212.3	2331.6	2600.2
69°	56.0	163.8	415.2	952.2	1552.4	1621.4	1434.4	1967.7	2144.7	2267.9	2526.3
69.5°	50.8	157.7	400.3	920.6	1508.4	1577.9	1395.7	1917.5	2075.8	2202.5	2448.9
70°	49.3	151.6	386.0	890.0	1464.5	1530.9	1357.0	1868.2	2010.0	2141.4	2372.3
70.5°	48.2	145.6	372.1	855.7	1420.6	1483.9	1317.5	1816.6	1944.4	2079.7	2295.5
71°	47.1	139.4	358.5	825.8	1376.7	1436.9	1278.7	1763.1	1877.5	2014.2	2217.8
71.5°	46.1	131.7	346.0	798.7	1332.7	1389.9	1237.7	1712.0	1811.4	1947.2	2141.6
72°	45.1	123.0	333.3	773.2	1286.3	1342.8	1197.3	1660.4	1750.7	1887.3	2072.0
72.5°	44.1	116.8	320.4	747.8	1240.3	1293.4	1154.6	1605.7	1689.3	1821.9	1998.8
73°	43.2	112.4	306.4	722.3	1193.8	1247.7	1115.5	1546.3	1629.4	1753.2	1924.2
73.5°	42.3	107.7	293.1	697.4	1146.5	1201.9	1078.3	1486.9	1574.8	1691.4	1856.4
74°	41.4	103.0	280.8	674.5	1101.2	1153.3	1039.3	1427.6	1519.6	1623.8	1784.1
74.5°	40.6	98.8	270.4	652.5	1056.1	1105.0	998.9	1368.2	1464.4	1560.8	1715.7
75°	39.7	94.9	259.5	631.7	1012.2	1059.3	960.2	1308.8	1409.2	1497.7	1646.1
75.5°	38.8	91.1	248.5	612.7	971.0	1013.2	920.3	1244.9	1354.0	1434.6	1576.0
76°	38.0	87.6	238.3	595.7	931.1	968.3	881.0	1181.7	1298.5	1371.6	1505.9
76.5°	37.1	84.5	227.8	576.3	895.1	925.6	843.2	1126.0	1242.6	1308.7	1435.8
77°	36.3	81.3	218.2	557.1	857.5	882.6	803.5	1069.4	1183.9	1248.1	1365.7
77.5°	35.4	78.2	210.3	538.5	822.2	836.4	764.4	1012.0	1124.9	1189.5	1295.7
78°	34.4	75.1	202.0	516.9	782.3	789.5	726.1	959.0	1070.4	1133.2	1231.8
78.5°	33.5	72.1	195.2	496.8	740.2	743.3	684.6	906.9	1014.0	1073.9	1163.7
79°	32.5	69.3	187.9	475.7	696.2	699.1	642.8	855.4	960.4	1017.9	1098.1
79.5°	31.5	66.4	180.0	454.9	651.2	656.0	602.3	807.8	911.1	965.7	1032.6
80°	30.5	63.6	170.6	433.1	606.4	612.7	562.0	760.5	861.1	909.8	969.0
80.5°	29.5	61.1	161.3	411.4	565.3	570.9	523.3	713.5	811.0	855.4	905.4
81°	28.5	58.5	152.0	389.1	526.7	529.8	489.3	669.3	764.7	804.5	848.9
81.5°	27.6	56.0	142.6	366.7	490.7	488.5	453.8	626.7	717.8	751.1	789.0
82°	26.7	53.5	133.3	344.4	454.2	446.7	417.5	583.0	673.1	700.6	730.4
82.5°	25.8	51.0	123.7	319.8	420.8	408.2	381.5	541.9	628.2	652.0	677.5
83°	24.9	48.5	114.2	296.3	387.6	370.8	349.5	502.1	584.5	605.7	625.7
83.5°	24.0	46.0	104.8	273.8	354.4	334.2	320.3	464.4	540.9	558.9	577.8
84°	23.1	43.6	96.0	250.8	321.9	299.4	292.8	427.6	500.2	519.0	535.7
84.5°	22.3	41.4	88.4	228.4	290.1	265.4	265.3	391.7	458.4	477.7	492.9
85°	21.6	39.3	81.3	207.4	260.3	233.5	241.5	358.6	421.2	441.7	455.0
85.5°	20.8	37.3	74.5	189.9	231.7	209.0	217.8	326.4	386.9	408.0	420.3
86°	20.1	35.4	68.8	172.5	209.9	184.6	197.0	295.7	354.0	376.5	387.9
86.5°	19.4	33.6	63.6	155.0	188.1	160.1	180.5	268.5	324.6	348.0	357.2
87°	18.7	32.0	59.0	137.6	166.4	135.7	164.1	245.6	299.9	323.6	331.4
87.5°	18.0	30.4	55.0	120.3	144.6	111.4	147.6	222.8	276.2	299.8	306.1
88°	17.4	29.0	51.5	108.5	122.9	95.5	131.5	204.2	255.4	278.4	283.4
88.5°	16.8	27.7	48.5	97.7	108.1	81.5	120.1	188.5	237.5	259.3	263.3
89°	16.2	26.5	45.8	88.6	96.0	70.5	109.9	178.2	221.7	242.5	244.6
89.5°	15.7	25.4	43.5	80.8	85.7	61.5	101.8	167.8	208.0	226.7	228.3



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	15.2	24.3	41.5	74.4	77.6	54.9	95.7	157.5	195.0	213.5	214.6
90.5°	14.7	23.4	39.9	69.2	71.5	49.9	90.9	147.2	183.4	201.2	202.1
91°	14.2	22.6	38.5	64.9	67.2	46.2	87.1	136.9	173.9	189.5	190.8
91.5°	13.7	21.9	37.4	61.3	64.0	43.6	84.2	131.3	168.0	178.8	180.0
92°	13.2	21.3	36.5	58.4	62.0	42.0	82.0	126.8	162.1	170.6	170.0
92.5°	12.9	20.8	35.9	56.1	60.5	41.0	80.2	122.9	156.2	164.6	164.1
93°	12.6	20.3	35.4	54.5	59.7	40.6	78.7	119.7	150.3	158.7	158.2
93.5°	12.4	19.9	35.1	53.5	59.1	40.4	77.4	116.9	144.5	152.7	152.3
94°	12.1	19.4	34.9	52.8	59.0	40.5	76.3	114.5	140.6	146.8	146.5
94.5°	11.9	19.0	34.7	52.4	59.0	40.7	75.4	112.2	137.2	142.6	142.7
95°	11.6	18.7	34.6	52.1	59.1	41.1	74.8	110.1	134.0	138.9	139.6
95.5°	11.4	18.3	34.4	52.0	59.1	41.7	74.5	108.2	131.0	135.4	136.7
96°	11.3	18.0	34.3	51.7	59.1	42.3	74.4	106.5	128.3	132.5	134.4
96.5°	11.1	17.8	34.0	51.4	58.9	43.0	74.6	105.0	125.8	129.8	132.2
97°	10.9	17.5	33.7	51.0	58.6	43.7	74.8	103.9	123.5	127.3	130.4
97.5°	10.7	17.3	33.3	50.6	58.3	44.5	75.0	102.9	121.4	125.2	128.8
98°	10.6	17.0	32.8	50.0	57.9	45.3	75.4	102.2	119.6	123.3	127.4
98.5°	10.4	16.7	32.2	49.3	57.4	46.1	75.8	101.7	118.0	121.6	126.1
99°	10.2	16.5	31.4	48.7	57.1	47.0	76.2	101.2	116.6	120.2	125.0
99.5°	10.0	16.2	30.6	47.9	56.8	47.9	76.8	100.9	115.4	118.8	124.1
100°	9.9	16.0	29.8	47.2	56.6	48.8	77.4	100.7	114.5	117.5	123.2
100.5°	9.7	15.7	29.1	46.5	56.5	49.7	78.0	100.6	113.8	116.5	122.0
101°	9.5	15.5	28.4	45.8	56.4	50.6	78.6	100.5	113.3	116.0	121.0
101.5°	9.2	15.2	27.7	45.2	56.5	51.6	79.2	100.5	112.8	115.8	120.9
102°	9.0	15.0	27.1	44.6	56.7	52.5	79.9	100.5	112.2	115.5	121.1
102.5°	8.7	14.8	26.6	44.1	57.0	53.4	80.6	100.5	111.8	115.2	121.0
103°	8.5	14.7	26.1	43.7	57.3	54.3	81.4	100.6	111.3	114.9	120.7
103.5°	8.3	14.5	25.7	43.3	57.8	55.3	82.3	100.7	110.9	114.7	120.5
104°	8.1	14.4	25.3	42.9	58.3	56.2	83.1	100.8	110.5	114.5	120.4
104.5°	8.0	14.3	25.0	42.7	58.9	57.1	83.9	100.9	110.1	114.4	120.3
105°	7.9	14.1	24.8	42.4	59.5	58.1	84.7	101.0	109.7	114.2	120.2
105.5°	7.8	14.0	24.7	42.3	60.2	59.1	85.5	101.1	109.2	114.1	120.2
106°	7.7	13.9	24.6	42.2	60.8	60.0	86.3	101.2	108.8	113.9	120.2
106.5°	7.6	13.8	24.5	42.1	61.4	60.9	87.0	101.3	108.5	113.7	120.1
107°	7.6	13.6	24.4	42.1	62.0	61.7	87.7	101.4	108.1	113.5	119.9
107.5°	7.5	13.5	24.4	42.0	62.6	62.6	88.4	101.5	107.7	113.1	119.7
108°	7.4	13.4	24.4	42.0	63.2	63.4	89.1	101.8	107.4	112.7	119.3
108.5°	7.3	13.3	24.4	42.1	63.7	64.1	89.8	102.1	107.1	112.3	118.8
109°	7.2	13.2	24.4	42.1	64.1	64.8	90.4	102.6	107.0	112.0	118.4
109.5°	7.1	13.1	24.4	42.2	64.5	65.5	91.0	103.1	106.9	111.8	118.0
110°	7.0	13.0	24.4	42.2	65.0	66.1	91.7	103.6	106.8	111.7	117.6
110.5°	6.9	13.0	24.4	42.3	65.5	66.7	92.4	104.0	106.7	111.5	117.2
111°	6.8	12.9	24.4	42.3	66.0	67.4	93.1	104.5	106.7	111.4	116.9
111.5°	6.8	12.9	24.4	42.4	66.4	68.1	93.8	104.9	106.6	111.4	116.6
112°	6.7	12.8	24.4	42.4	66.9	68.9	94.5	105.3	106.6	111.3	116.3



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	6.7	12.8	24.4	42.4	67.4	69.5	95.1	105.7	106.6	111.3	116.0
113°	6.7	12.8	24.4	42.4	67.9	70.2	95.7	106.1	106.5	111.2	115.8
113.5°	6.7	12.7	24.4	42.4	68.3	70.7	96.2	106.5	106.5	111.1	115.6
114°	6.7	12.7	24.4	42.3	68.7	71.2	96.6	106.8	106.6	111.0	115.6
114.5°	6.7	12.7	24.3	42.3	69.0	71.7	97.1	107.2	106.5	110.9	115.5
115°	6.7	12.6	24.3	42.3	69.4	72.2	97.5	107.5	106.4	110.8	115.5
115.5°	6.8	12.6	24.2	42.2	69.6	72.7	97.9	107.8	106.4	110.6	115.4
116°	6.8	12.6	24.1	42.2	69.8	73.0	98.2	108.1	106.3	110.6	115.2
116.5°	6.8	12.6	24.1	42.2	70.1	73.2	98.5	108.2	106.3	110.5	115.1
117°	6.8	12.6	24.0	42.1	70.4	73.4	98.8	108.3	106.2	110.5	115.0
117.5°	6.9	12.7	23.9	42.1	70.8	73.5	98.9	108.4	106.2	110.4	114.9
118°	6.9	12.7	23.9	42.1	71.0	73.7	99.0	108.6	106.2	110.3	114.7
118.5°	7.0	12.7	23.8	42.1	71.2	73.8	99.0	108.6	106.2	110.3	114.6
119°	7.1	12.8	23.7	42.1	71.3	73.8	98.9	108.7	106.2	110.2	114.4
119.5°	7.1	12.8	23.7	42.0	71.3	73.7	98.7	108.7	106.2	110.2	114.3
120°	7.2	12.9	23.7	42.0	71.2	73.6	98.5	108.8	106.2	110.2	114.2
120.5°	7.3	12.9	23.7	42.0	71.2	73.4	98.2	108.8	106.2	110.3	114.1
121°	7.4	13.0	23.7	42.0	71.1	73.1	97.9	108.8	106.2	110.3	114.1
121.5°	7.5	13.1	23.6	42.0	71.1	72.8	97.6	108.7	106.2	110.4	114.0
122°	7.6	13.1	23.6	41.9	71.0	72.4	97.1	108.7	106.2	110.4	114.0
122.5°	7.7	13.2	23.7	41.9	70.9	71.9	96.7	108.7	106.3	110.5	114.0
123°	7.8	13.2	23.7	41.9	70.8	71.4	96.2	108.7	106.4	110.6	114.0
123.5°	7.9	13.3	23.7	41.9	70.7	70.9	95.6	108.7	106.5	110.7	114.0
124°	8.0	13.4	23.8	41.9	70.5	70.4	95.1	108.8	106.6	110.9	114.0
124.5°	8.1	13.4	23.9	42.0	70.4	70.0	94.5	108.9	106.7	111.0	114.0
125°	8.2	13.5	23.9	42.0	70.3	69.5	94.0	109.1	106.9	111.2	114.0
125.5°	8.3	13.6	24.0	42.1	70.2	69.2	93.5	109.2	107.2	111.3	114.1
126°	8.4	13.7	24.1	42.2	70.2	68.8	93.0	109.4	107.4	111.5	114.1
126.5°	8.5	13.7	24.2	42.4	70.2	68.5	92.6	109.6	107.7	111.7	114.1
127°	8.5	13.8	24.3	42.5	70.2	68.2	92.2	109.8	107.9	111.8	114.1
127.5°	8.6	13.9	24.3	42.7	70.3	68.0	91.8	110.0	108.2	112.0	114.1
128°	8.7	14.0	24.4	42.8	70.3	67.9	91.4	110.3	108.6	112.1	114.1
128.5°	8.8	14.1	24.5	43.0	70.4	67.7	91.1	110.5	108.9	112.3	114.1
129°	8.8	14.2	24.6	43.2	70.5	67.6	90.8	110.7	109.2	112.4	114.1
129.5°	8.9	14.2	24.7	43.4	70.5	67.5	90.5	110.9	109.5	112.5	114.1
130°	9.0	14.3	24.8	43.7	70.6	67.4	90.2	111.1	109.8	112.6	114.0
130.5°	9.0	14.4	24.9	43.9	70.7	67.3	89.9	111.2	110.2	112.6	113.9
131°	9.1	14.5	24.9	44.2	70.7	67.2	89.6	111.2	110.4	112.6	113.8
131.5°	9.1	14.5	25.0	44.4	70.8	67.2	89.2	111.2	110.7	112.4	113.6
132°	9.2	14.6	25.1	44.6	70.8	67.1	88.9	111.1	111.0	112.4	113.4
132.5°	9.2	14.7	25.2	44.9	70.8	67.0	88.5	111.0	111.1	112.2	113.0
133°	9.2	14.8	25.4	45.1	70.8	66.8	88.1	110.8	111.3	112.0	112.7
133.5°	9.3	14.8	25.5	45.3	70.7	66.7	87.7	110.5	111.4	111.8	112.3
134°	9.3	14.9	25.6	45.6	70.6	66.4	87.1	110.2	111.4	111.6	111.7
134.5°	9.4	15.0	25.7	45.8	70.4	66.2	86.6	109.7	111.4	111.3	111.2





REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	9.4	15.1	25.8	46.0	70.1	66.0	86.0	109.3	111.2	111.0	110.6
135.5°	9.4	15.1	25.9	46.2	69.9	65.7	85.4	108.7	111.0	110.6	110.0
136°	9.5	15.2	26.0	46.3	69.5	65.3	84.8	108.0	110.8	110.1	109.2
136.5°	9.5	15.3	26.1	46.5	69.2	64.9	84.0	107.3	110.4	109.5	108.4
137°	9.5	15.3	26.2	46.6	68.7	64.5	83.2	106.6	109.9	109.0	107.5
137.5°	9.5	15.4	26.2	46.7	68.2	64.1	82.4	105.7	109.4	108.3	106.6
138°	9.6	15.4	26.3	46.7	67.6	63.6	81.6	104.7	108.7	107.6	105.7
138.5°	9.6	15.5	26.3	46.7	67.1	63.1	80.7	103.7	107.9	106.9	104.8
139°	9.6	15.5	26.3	46.7	66.4	62.5	79.7	102.6	107.1	106.0	103.9
139.5°	9.6	15.5	26.3	46.6	65.7	62.0	78.8	101.4	106.2	105.1	103.0
140°	9.6	15.5	26.3	46.6	64.9	61.4	77.8	100.2	105.1	104.2	102.2
140.5°	9.6	15.5	26.3	46.4	64.1	60.6	76.6	98.8	104.0	103.1	101.3
141°	9.6	15.5	26.2	46.2	63.2	59.9	75.5	97.4	102.8	101.9	100.5
141.5°	9.6	15.5	26.1	46.0	62.2	59.2	74.4	95.9	101.5	100.7	99.6
142°	9.5	15.4	26.0	45.7	61.2	58.4	73.1	94.4	100.2	99.5	98.8
142.5°	9.5	15.3	25.9	45.4	60.2	57.5	71.8	92.7	98.7	98.0	97.9
143°	9.5	15.3	25.8	45.0	59.1	56.6	70.4	91.1	97.1	96.6	97.1
143.5°	9.5	15.2	25.6	44.6	58.0	55.7	69.0	89.3	95.5	95.1	96.2
144°	9.4	15.1	25.5	44.1	56.8	54.7	67.6	87.5	93.8	93.7	95.2
144.5°	9.4	15.0	25.3	43.6	55.6	53.7	66.1	85.6	92.0	92.1	94.2
145°	9.3	14.9	25.1	43.0	54.4	52.6	64.6	83.7	90.2	90.6	93.2
145.5°	9.2	14.8	24.9	42.4	53.1	51.5	63.0	81.8	88.4	89.1	92.1
146°	9.1	14.7	24.6	41.8	51.8	50.4	61.4	79.7	86.5	87.7	90.9
146.5°	9.1	14.5	24.4	41.0	50.5	49.2	59.8	77.6	84.5	86.1	89.6
147°	8.9	14.3	24.1	40.3	49.1	48.1	58.2	75.5	82.5	84.6	88.3
147.5°	8.8	14.1	23.8	39.4	47.8	46.8	56.5	73.4	80.5	83.1	86.9
148°	8.7	13.9	23.5	38.6	46.4	45.6	54.8	71.2	78.6	81.6	85.4
148.5°	8.6	13.8	23.2	37.7	45.0	44.4	53.1	69.0	76.6	80.1	84.0
149°	8.4	13.6	22.9	36.8	43.6	43.1	51.4	66.8	74.6	78.6	82.5
149.5°	8.3	13.4	22.5	35.8	42.2	41.9	49.7	64.5	72.7	76.9	80.9
150°	8.1	13.2	22.1	34.8	40.8	40.6	47.9	62.2	70.6	75.3	79.4
150.5°	8.0	13.0	21.7	33.8	39.4	39.4	46.1	59.9	68.4	73.6	77.8
151°	7.8	12.7	21.3	32.8	38.0	38.1	44.4	57.7	66.2	71.9	76.2
151.5°	7.6	12.5	20.8	31.7	36.6	36.8	42.7	55.5	64.1	70.1	74.6
152°	7.5	12.2	20.4	30.7	35.3	35.6	41.0	53.3	61.9	68.4	72.9
152.5°	7.3	11.9	19.9	29.7	34.0	34.3	39.4	51.1	59.7	66.6	71.2
153°	7.1	11.6	19.4	28.6	32.6	33.0	37.7	49.0	57.5	64.8	69.5
153.5°	6.9	11.3	18.9	27.5	31.3	31.8	36.1	46.9	55.2	63.0	67.7
154°	6.7	11.0	18.3	26.5	30.0	30.6	34.5	44.7	52.9	61.2	65.8
154.5°	6.5	10.6	17.8	25.4	28.7	29.4	33.0	42.7	50.6	59.3	64.0
155°	6.3	10.3	17.2	24.3	27.5	28.2	31.5	40.6	48.3	57.3	62.2
155.5°	6.1	9.9	16.6	23.3	26.3	27.0	30.0	38.6	46.0	55.2	60.3
156°	5.9	9.6	15.9	22.2	25.1	25.8	28.5	36.6	43.8	52.6	58.5
156.5°	5.7	9.2	15.2	21.2	23.9	24.7	27.1	34.7	41.5	50.1	56.7
157°	5.5	8.8	14.5	20.2	22.7	23.6	25.7	32.8	39.2	47.6	54.8



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.4	8.4	13.8	19.2	21.7	22.6	24.3	31.0	36.8	45.1	53.0
158°	5.4	8.0	13.1	18.2	20.6	21.5	23.0	29.2	34.6	42.6	51.2
158.5°	5.3	7.6	12.5	17.3	19.5	20.5	21.8	27.4	32.3	40.0	49.3
159°	5.2	7.2	11.9	16.4	18.5	19.5	20.6	25.7	30.0	37.4	46.7
159.5°	5.2	6.8	11.2	15.5	17.5	18.5	19.4	24.1	28.2	34.9	43.8
160°	5.2	6.4	10.5	14.6	16.5	17.5	18.2	22.5	26.4	32.5	40.9
160.5°	5.2	6.1	9.9	13.6	15.6	16.6	17.1	21.0	24.7	30.1	38.1
161°	5.1	5.9	9.3	12.7	14.7	15.6	16.2	19.6	23.0	27.8	35.3
161.5°	5.1	5.7	8.7	11.9	13.7	14.7	15.2	18.2	21.5	25.3	32.4
162°	5.1	5.6	8.1	11.1	12.8	13.8	14.2	17.0	19.9	22.9	29.7
162.5°	5.0	5.4	7.5	10.4	12.0	12.9	13.3	15.8	18.5	20.5	27.1
163°	5.0	5.3	7.0	9.6	11.2	12.1	12.3	14.6	17.2	18.3	24.5
163.5°	5.0	5.2	6.6	9.0	10.5	11.3	11.5	13.4	15.9	17.1	22.1
164°	5.0	5.0	6.2	8.3	9.7	10.6	10.8	12.2	14.6	15.8	20.0
164.5°	4.9	4.9	5.9	7.7	9.1	9.9	10.1	11.2	13.3	14.6	17.8
165°	4.9	4.8	5.6	7.1	8.4	9.2	9.4	10.3	12.0	13.3	15.7
165.5°	4.9	4.8	5.3	6.6	7.8	8.6	8.7	9.5	11.0	12.1	13.5
166°	4.9	4.9	5.1	6.2	7.3	8.0	8.2	8.8	10.1	11.1	11.4
166.5°	4.9	4.9	4.9	5.8	6.8	7.4	7.6	8.1	9.3	10.2	10.6
167°	5.0	4.9	4.9	5.5	6.3	6.9	7.1	7.4	8.5	9.3	10.0
167.5°	5.0	4.9	4.9	5.2	5.9	6.5	6.6	6.8	7.8	8.6	9.4
168°	5.0	4.9	4.9	4.9	5.5	6.0	6.2	6.3	7.2	7.9	8.9
168.5°	5.0	4.9	4.9	4.9	5.2	5.6	5.8	5.8	6.6	7.5	8.4
169°	4.9	4.9	4.9	4.9	4.9	5.2	5.4	5.3	6.0	7.1	8.0
169.5°	4.9	4.8	4.8	4.8	4.9	4.9	5.0	4.9	5.8	6.8	7.6
170°	4.9	4.8	4.8	4.8	4.9	4.8	4.9	4.9	5.6	6.5	7.2
170.5°	4.8	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.5	6.3	6.9
171°	4.8	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.4	6.1	6.6
171.5°	4.8	4.8	4.8	4.8	4.9	4.9	4.9	5.0	5.3	5.9	6.4
172°	4.8	4.7	4.8	4.8	4.8	4.9	4.9	5.0	5.2	5.7	6.1
172.5°	4.7	4.7	4.7	4.8	4.8	4.9	4.9	5.0	5.2	5.6	5.9
173°	4.7	4.7	4.7	4.8	4.8	4.9	4.9	5.0	5.1	5.5	5.8
173.5°	4.7	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.4	5.6
174°	4.6	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.3	5.6
174.5°	4.6	4.6	4.7	4.7	4.8	4.9	5.0	5.1	5.1	5.3	5.5
175°	4.6	4.6	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4
175.5°	4.6	4.6	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.2	5.4
176°	4.5	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.2	5.3
176.5°	4.5	4.5	4.5	4.6	4.7	4.8	4.9	5.1	5.2	5.2	5.3
177°	4.4	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.2	5.2	5.3
177.5°	4.4	4.4	4.5	4.5	4.7	4.8	4.9	5.0	5.2	5.2	5.3
178°	4.4	4.4	4.4	4.5	4.7	4.8	4.9	5.0	5.2	5.2	5.3
178.5°	4.3	4.3	4.4	4.5	4.6	4.7	4.9	5.0	5.2	5.3	5.4
179°	4.3	4.3	4.4	4.5	4.6	4.7	4.9	5.0	5.2	5.3	5.4
179.5°	4.3	4.3	4.3	4.4	4.6	4.7	4.9	5.0	5.2	5.3	5.4





REPORT NUMBER: P973046  
CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	4329.9	4329.9	4329.9	4329.9
0.5°	4401.5	4410.2	4411.5	4397.7
1°	4441.3	4441.0	4436.2	4354.3
1.5°	4384.1	4352.9	4332.4	4198.6
2°	4249.8	4191.8	4158.3	4002.8
2.5°	4069.1	4011.3	3980.4	3888.3
3°	3949.5	3920.4	3914.7	3885.3
3.5°	3911.3	3918.5	3933.1	3914.5
4°	3932.6	3950.8	3947.0	3873.9
4.5°	3946.1	3915.1	3864.8	3718.5
5°	3885.3	3781.2	3693.0	3539.0
5.5°	3741.8	3600.6	3539.2	3476.7
6°	3585.3	3517.9	3525.8	3566.1
6.5°	3520.5	3567.1	3649.9	3735.8
7°	3561.7	3711.7	3813.9	3858.1
7.5°	3692.4	3854.4	3901.5	3842.3
8°	3828.1	3895.9	3859.1	3726.7
8.5°	3902.3	3826.3	3747.6	3661.8
9°	3864.5	3733.9	3712.3	3736.0
9.5°	3779.5	3721.7	3810.7	3944.5
10°	3718.8	3832.0	4028.3	4169.4
10.5°	3754.5	4032.2	4236.0	4270.6
11°	3881.0	4226.7	4309.0	4223.5
11.5°	4076.5	4305.0	4256.8	4117.6
12°	4228.7	4257.4	4155.7	4095.9
12.5°	4282.3	4164.9	4141.8	4200.4
13°	4246.2	4131.0	4241.5	4345.6
13.5°	4159.7	4202.0	4380.0	4418.9
14°	4112.2	4320.7	4454.0	4429.6
14.5°	4158.8	4414.9	4474.0	4439.1
15°	4256.0	4462.1	4495.0	4499.4
15.5°	4349.1	4481.4	4564.9	4661.3
16°	4407.9	4522.3	4709.6	4881.2
16.5°	4440.9	4623.9	4926.4	5119.7
17°	4466.3	4794.9	5159.4	5325.2
17.5°	4516.2	5020.3	5384.9	5482.7
18°	4623.9	5243.4	5552.2	5604.4
18.5°	4789.5	5431.8	5673.7	5728.2
19°	4991.7	5574.7	5793.1	5885.7
19.5°	5199.3	5686.3	5947.2	6084.8
20°	5359.1	5795.1	6138.5	6290.8
20.5°	5487.9	5947.5	6329.0	6462.0
21°	5585.2	6128.7	6487.8	6592.9
21.5°	5682.6	6300.9	6615.2	6692.1
22°	5809.9	6429.0	6710.7	6766.1



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
22.5°	5960.6	6521.4	6783.3	6802.6
23°	6108.1	6601.2	6824.5	6816.1
23.5°	6230.9	6661.5	6829.3	6808.6
24°	6313.2	6704.1	6812.6	6785.3
24.5°	6355.9	6701.8	6786.6	6762.5
25°	6399.6	6679.7	6771.0	6728.0
25.5°	6449.4	6646.6	6758.6	6691.6
26°	6466.5	6629.0	6731.4	6649.8
26.5°	6465.0	6623.7	6688.9	6621.8
27°	6444.0	6604.5	6639.4	6600.4
27.5°	6404.7	6559.8	6616.2	6552.3
28°	6379.7	6493.3	6590.4	6494.7
28.5°	6362.2	6444.9	6551.4	6428.4
29°	6339.0	6430.9	6489.7	6365.8
29.5°	6305.9	6414.8	6413.8	6301.3
30°	6253.1	6361.0	6344.1	6250.9
30.5°	6193.9	6272.1	6290.2	6197.7
31°	6154.0	6199.7	6251.1	6140.1
31.5°	6123.8	6151.2	6208.3	6077.3
32°	6089.5	6121.3	6139.3	6009.4
32.5°	6026.7	6079.4	6051.7	5956.2
33°	5945.3	6014.2	5977.5	5895.6
33.5°	5883.7	5934.4	5915.8	5810.2
34°	5837.5	5862.4	5852.1	5707.8
34.5°	5790.9	5801.7	5764.8	5624.9
35°	5729.1	5755.2	5686.2	5569.3
35.5°	5653.6	5703.8	5621.9	5535.7
36°	5583.1	5642.4	5576.9	5518.6
36.5°	5526.2	5577.5	5557.3	5522.7
37°	5477.5	5529.3	5549.6	5543.4
37.5°	5439.4	5493.7	5560.0	5567.6
38°	5398.5	5480.0	5580.1	5604.5
38.5°	5354.9	5479.2	5613.3	5641.9
39°	5307.7	5484.0	5653.9	5686.1
39.5°	5265.1	5505.7	5700.0	5729.3
40°	5238.3	5535.3	5749.9	5772.4
40.5°	5221.1	5572.8	5802.3	5813.5
41°	5214.9	5613.1	5850.1	5848.8
41.5°	5213.9	5652.4	5882.0	5883.2
42°	5227.2	5683.4	5910.4	5902.7
42.5°	5242.9	5711.7	5940.0	5936.1
43°	5251.7	5732.9	5976.1	5972.4
43.5°	5266.2	5750.7	6004.2	6000.0
44°	5281.5	5773.2	6022.8	6019.6
44.5°	5293.3	5787.4	6050.1	6015.1



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
45°	5306.6	5798.3	6056.4	6006.7
45.5°	5318.4	5809.5	6044.6	5970.6
46°	5327.6	5812.4	6023.3	5933.5
46.5°	5329.5	5809.5	5974.5	5868.3
47°	5333.3	5788.5	5925.9	5812.8
47.5°	5329.5	5763.3	5871.5	5750.3
48°	5320.1	5714.1	5818.3	5708.7
48.5°	5310.5	5665.4	5768.7	5657.6
49°	5291.7	5611.9	5705.0	5590.6
49.5°	5270.3	5566.3	5638.7	5513.1
50°	5240.0	5509.1	5557.7	5436.2
50.5°	5213.8	5456.8	5480.8	5375.6
51°	5164.9	5396.8	5406.0	5324.2
51.5°	5116.5	5324.0	5345.3	5279.7
52°	5062.2	5252.8	5285.9	5234.0
52.5°	5012.3	5188.2	5236.8	5193.1
53°	4964.2	5130.4	5185.5	5136.7
53.5°	4912.9	5076.8	5124.5	5080.0
54°	4860.7	5017.6	5069.6	5028.9
54.5°	4800.0	4968.3	5013.9	4971.3
55°	4740.4	4913.9	4954.8	4897.9
55.5°	4685.1	4860.5	4873.3	4808.5
56°	4637.6	4790.0	4782.3	4715.7
56.5°	4585.4	4713.4	4684.2	4611.9
57°	4519.8	4625.8	4594.1	4528.7
57.5°	4446.0	4548.4	4508.6	4452.3
58°	4373.7	4454.4	4425.1	4369.6
58.5°	4304.6	4371.5	4341.8	4289.9
59°	4228.8	4285.3	4255.9	4199.2
59.5°	4143.2	4194.7	4162.0	4096.3
60°	4057.0	4100.9	4061.6	3976.4
60.5°	3970.3	4011.7	3956.0	3860.7
61°	3883.3	3908.8	3840.9	3746.2
61.5°	3800.3	3809.1	3732.7	3639.1
62°	3706.0	3703.7	3626.4	3547.5
62.5°	3616.2	3605.6	3529.9	3466.3
63°	3527.8	3511.1	3455.9	3408.1
63.5°	3436.6	3429.0	3388.3	3353.4
64°	3348.4	3345.2	3324.7	3293.5
64.5°	3268.7	3278.0	3258.5	3228.4
65°	3193.3	3211.7	3191.5	3163.8
65.5°	3118.3	3138.5	3115.0	3076.0
66°	3046.5	3060.2	3033.8	2976.7
66.5°	2974.9	2982.0	2949.3	2881.4
67°	2898.4	2896.2	2856.6	2792.5



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
67.5°	2824.1	2806.2	2766.1	2710.2
68°	2744.9	2717.5	2692.2	2636.5
68.5°	2658.8	2638.9	2621.9	2564.5
69°	2573.7	2559.9	2551.0	2497.6
69.5°	2495.0	2486.2	2480.8	2423.5
70°	2417.1	2409.9	2404.4	2341.0
70.5°	2340.7	2335.0	2325.1	2259.9
71°	2263.5	2260.5	2247.1	2181.2
71.5°	2188.2	2181.2	2166.7	2102.7
72°	2110.2	2105.0	2087.7	2032.1
72.5°	2035.7	2031.6	2012.9	1961.7
73°	1962.7	1951.5	1936.4	1884.5
73.5°	1890.7	1871.6	1858.2	1806.6
74°	1815.9	1798.0	1778.4	1730.5
74.5°	1737.3	1724.8	1697.5	1642.3
75°	1664.1	1641.9	1619.0	1556.7
75.5°	1589.0	1564.9	1540.5	1472.5
76°	1513.8	1488.0	1462.1	1388.1
76.5°	1438.6	1411.1	1383.6	1307.8
77°	1363.4	1334.1	1305.0	1232.0
77.5°	1288.5	1257.3	1224.7	1156.6
78°	1219.8	1183.8	1150.0	1085.0
78.5°	1150.2	1111.8	1075.9	1018.3
79°	1078.9	1040.7	1006.3	954.0
79.5°	1009.1	967.9	940.5	888.4
80°	938.6	902.6	880.5	833.4
80.5°	873.7	841.4	821.5	779.2
81°	812.7	785.5	768.9	728.5
81.5°	752.4	734.4	722.0	684.0
82°	698.6	685.5	675.6	640.6
82.5°	646.6	637.6	628.4	597.3
83°	598.6	595.9	587.1	554.0
83.5°	555.2	553.2	545.6	510.7
84°	515.3	510.2	503.7	467.4
84.5°	478.1	471.7	465.1	431.2
85°	443.6	437.0	428.8	396.6
85.5°	410.5	401.4	395.2	367.0
86°	379.9	370.6	365.5	339.9
86.5°	351.8	342.6	337.0	315.2
87°	325.6	316.4	312.1	293.2
87.5°	300.1	294.0	291.7	274.3
88°	278.5	273.4	272.5	256.8
88.5°	258.3	254.9	255.3	242.1
89°	241.3	239.6	240.7	228.8
89.5°	225.4	225.4	227.2	216.8



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
90°	211.7	212.8	215.0	206.6
90.5°	199.6	202.6	205.4	197.5
91°	190.0	193.5	196.5	189.5
91.5°	180.7	185.4	188.7	182.9
92°	171.9	178.3	182.5	177.0
92.5°	166.9	171.0	175.7	170.1
93°	161.8	164.0	168.9	163.8
93.5°	156.8	160.7	163.5	159.4
94°	151.7	157.4	160.9	156.2
94.5°	146.8	154.1	158.4	153.6
95°	143.9	150.8	155.9	151.6
95.5°	141.8	148.5	153.4	149.6
96°	139.5	146.4	150.8	147.4
96.5°	137.6	144.8	149.2	146.0
97°	136.1	143.4	147.8	145.0
97.5°	134.7	142.2	146.7	144.2
98°	133.6	141.2	145.8	143.2
98.5°	132.6	140.3	144.8	142.1
99°	131.7	139.4	143.8	141.4
99.5°	130.7	138.5	142.9	140.5
100°	130.0	137.6	141.9	139.4
100.5°	129.2	136.7	140.9	138.3
101°	127.6	135.8	139.9	137.2
101.5°	126.3	133.7	138.1	134.7
102°	126.0	131.9	135.4	132.7
102.5°	126.4	131.7	133.9	131.7
103°	126.2	132.1	133.9	132.0
103.5°	125.8	131.8	134.2	131.9
104°	125.4	131.1	133.7	131.4
104.5°	125.0	130.5	132.9	130.6
105°	124.7	129.9	132.0	129.8
105.5°	124.4	129.4	131.3	129.0
106°	124.1	128.9	130.6	128.2
106.5°	123.9	128.4	130.0	127.6
107°	123.7	128.1	129.5	127.1
107.5°	123.5	127.7	129.1	126.6
108°	123.1	127.3	128.6	126.0
108.5°	122.6	126.8	127.9	125.2
109°	122.1	126.1	127.1	124.3
109.5°	121.4	125.3	126.3	123.3
110°	120.8	124.5	125.4	122.1
110.5°	120.2	123.7	124.4	121.0
111°	119.5	122.9	123.4	120.0
111.5°	119.0	122.2	122.4	118.9
112°	118.5	121.4	121.5	117.9



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	117.9	120.6	120.6	116.9
113°	117.3	119.8	119.7	116.0
113.5°	116.9	119.1	118.8	115.2
114°	116.6	118.3	118.0	114.5
114.5°	116.3	117.7	117.2	113.8
115°	116.2	117.2	116.5	113.1
115.5°	116.1	116.7	115.8	112.3
116°	116.0	116.3	115.2	111.6
116.5°	116.0	116.2	114.7	111.0
117°	115.9	116.0	114.3	110.5
117.5°	115.9	116.0	114.0	110.2
118°	115.9	115.9	113.8	110.0
118.5°	115.9	115.9	113.7	109.8
119°	115.9	115.9	113.6	109.7
119.5°	115.9	115.9	113.6	109.7
120°	115.7	116.0	113.6	109.8
120.5°	115.7	116.0	113.7	109.9
121°	115.6	116.0	113.8	110.2
121.5°	115.6	115.9	113.9	110.2
122°	115.5	115.9	113.8	110.3
122.5°	115.6	116.0	113.8	110.5
123°	115.5	116.0	113.9	110.7
123.5°	115.5	116.0	114.0	111.0
124°	115.4	116.0	114.1	111.2
124.5°	115.4	116.1	114.2	111.4
125°	115.4	116.2	114.3	111.7
125.5°	115.5	116.3	114.4	111.9
126°	115.5	116.4	114.6	112.2
126.5°	115.6	116.5	114.8	112.6
127°	115.6	116.6	114.9	112.6
127.5°	115.6	116.8	114.9	112.6
128°	115.7	117.0	114.9	112.6
128.5°	115.8	117.1	114.9	112.6
129°	115.9	117.2	114.9	112.7
129.5°	115.9	117.3	114.8	112.6
130°	115.9	117.4	114.8	112.6
130.5°	115.9	117.4	114.8	112.5
131°	115.8	117.4	114.7	112.3
131.5°	115.7	117.4	114.6	112.2
132°	115.7	117.2	114.5	112.1
132.5°	115.5	117.0	114.2	111.7
133°	115.3	116.8	114.0	111.3
133.5°	115.1	116.6	113.5	110.9
134°	114.8	116.2	113.1	110.3
134.5°	114.4	115.8	112.5	109.6



REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
135°	113.9	115.4	111.9	108.8
135.5°	113.4	114.8	111.3	108.0
136°	113.0	114.2	110.8	107.3
136.5°	112.4	113.5	110.0	106.3
137°	111.8	112.8	109.3	105.3
137.5°	111.0	112.2	108.5	104.3
138°	110.2	111.4	107.5	103.1
138.5°	109.2	110.6	106.6	102.0
139°	107.5	109.9	105.8	100.9
139.5°	106.7	109.0	104.9	100.1
140°	106.0	107.9	104.1	99.1
140.5°	105.3	106.8	103.2	98.2
141°	104.6	105.2	102.2	97.0
141.5°	103.9	103.9	100.9	95.6
142°	103.1	103.2	99.6	94.2
142.5°	102.2	102.4	97.3	91.3
143°	101.2	101.6	96.2	90.4
143.5°	100.2	100.9	95.4	89.8
144°	99.1	100.1	94.6	89.0
144.5°	98.0	99.1	93.7	88.3
145°	96.9	98.2	92.8	87.6
145.5°	95.7	97.2	91.8	86.8
146°	94.4	96.1	90.8	86.0
146.5°	93.2	95.1	89.7	85.2
147°	91.9	93.9	88.7	84.2
147.5°	90.5	92.7	87.6	83.3
148°	89.1	91.5	86.5	82.4
148.5°	87.8	90.1	85.4	81.5
149°	86.3	88.7	84.2	80.4
149.5°	84.8	87.3	83.0	79.4
150°	83.2	85.9	81.8	78.4
150.5°	81.6	84.4	80.6	77.3
151°	79.9	82.8	79.3	76.2
151.5°	78.5	81.3	78.1	74.9
152°	76.8	79.6	76.7	73.6
152.5°	75.2	78.0	75.2	72.3
153°	73.6	76.3	73.8	70.9
153.5°	71.8	74.6	72.3	70.4
154°	70.0	72.8	70.8	69.0
154.5°	68.4	71.2	69.4	67.6
155°	66.6	69.4	67.9	66.3
155.5°	64.9	67.7	66.4	64.9
156°	63.1	65.9	64.9	63.5
156.5°	61.3	64.1	63.4	62.0
157°	59.3	62.3	61.9	60.6





REPORT NUMBER: P973046  
 CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
157.5°	57.5	60.5	60.5	59.1
158°	55.7	58.6	58.8	57.6
158.5°	53.8	56.7	57.2	56.0
159°	52.1	54.9	55.6	54.2
159.5°	50.2	53.0	53.9	52.5
160°	48.3	51.1	52.1	50.9
160.5°	46.4	49.4	50.5	49.3
161°	44.1	47.6	48.9	47.6
161.5°	40.8	45.7	47.3	46.1
162°	37.8	43.9	45.7	44.4
162.5°	34.7	41.3	43.9	42.6
163°	31.6	37.7	42.0	40.8
163.5°	28.7	34.6	39.2	37.8
164°	26.0	31.4	35.7	34.5
164.5°	23.4	28.2	32.4	31.2
165°	21.0	25.4	29.3	28.1
165.5°	18.7	22.7	26.3	25.1
166°	16.5	20.4	23.4	22.3
166.5°	14.2	18.0	20.9	19.8
167°	12.0	15.7	18.5	17.4
167.5°	9.8	13.4	16.1	15.1
168°	9.3	11.0	13.6	12.5
168.5°	8.8	8.7	11.2	9.9
169°	8.4	8.3	8.9	7.6
169.5°	7.9	8.0	8.3	7.2
170°	7.6	7.7	8.0	6.8
170.5°	7.2	7.4	7.7	6.5
171°	6.9	7.1	7.5	6.1
171.5°	6.6	6.9	7.2	5.9
172°	6.4	6.7	7.0	5.6
172.5°	6.2	6.5	6.8	5.4
173°	6.0	6.2	6.6	5.2
173.5°	5.8	6.0	6.4	5.0
174°	5.7	5.9	6.3	4.9
174.5°	5.6	5.8	6.0	4.7
175°	5.5	5.7	5.8	4.5
175.5°	5.5	5.6	5.7	4.4
176°	5.4	5.6	5.7	4.3
176.5°	5.4	5.5	5.7	4.3
177°	5.4	5.5	5.7	4.2
177.5°	5.4	5.5	5.7	4.2
178°	5.4	5.6	5.7	4.3
178.5°	5.4	5.6	5.8	4.3
179°	5.5	5.6	5.8	4.4
179.5°	5.6	5.7	5.9	4.4



REPORT NUMBER: P973046  
CATALOG NUMBER: WP-6984-100W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
180°	4.5	4.5	4.5	4.5

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2410-249-1

Test Date: 10/24/2024

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

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

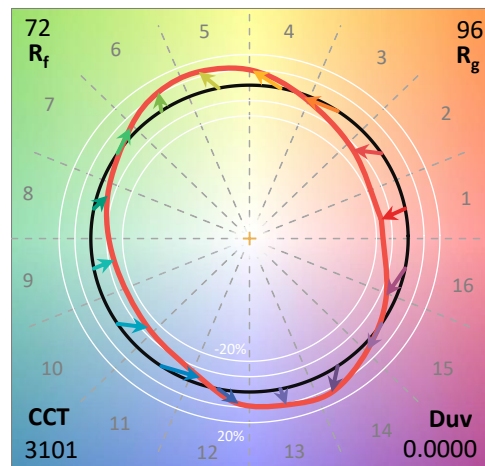
**Test Information**

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

**Spectral Parameters**

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

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



**Test Conditions**

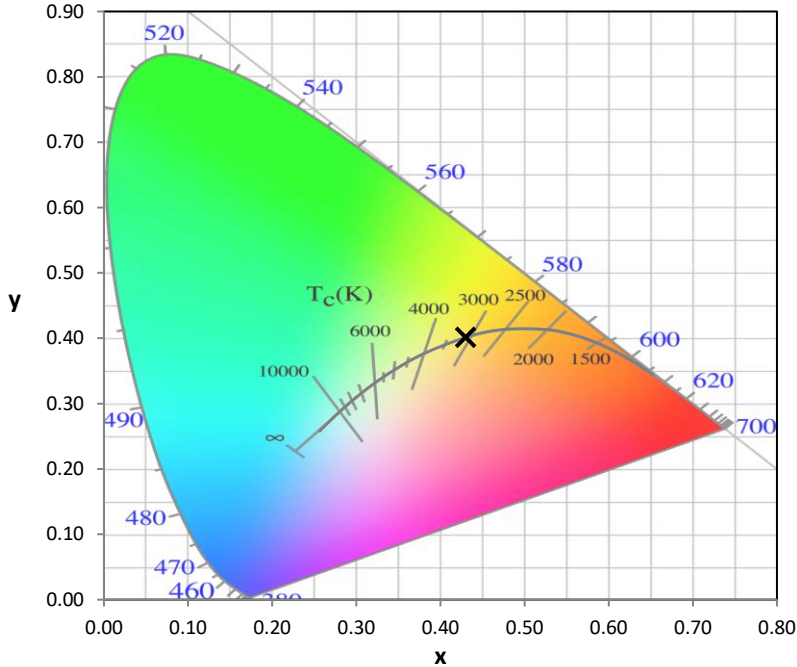
Stabilization Time: 49M  
 Operation Time: 1H 49M  
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-1

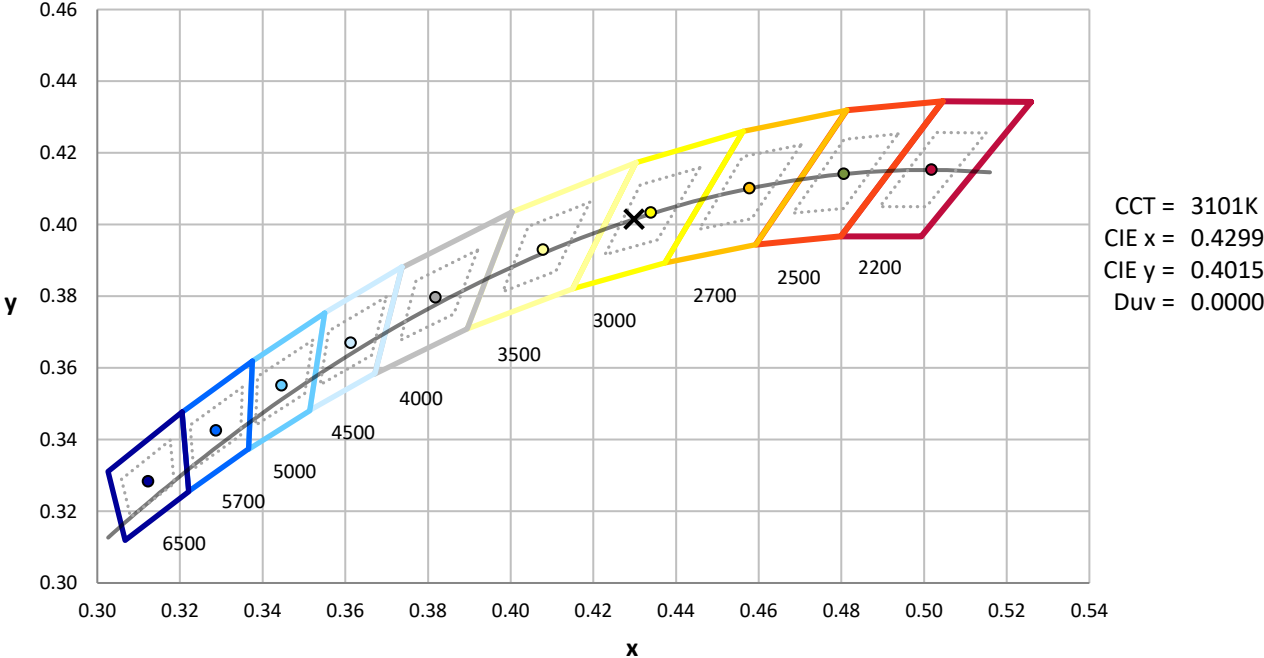
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2410-249-1

CIE 1931 Chromaticity Diagram



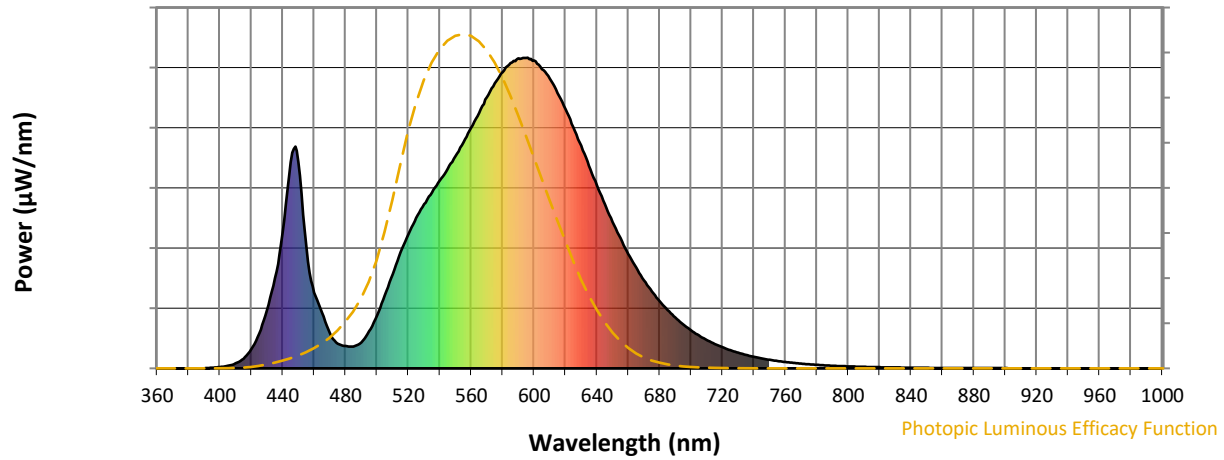
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-1

**Photopic Flux vs. Wavelength**

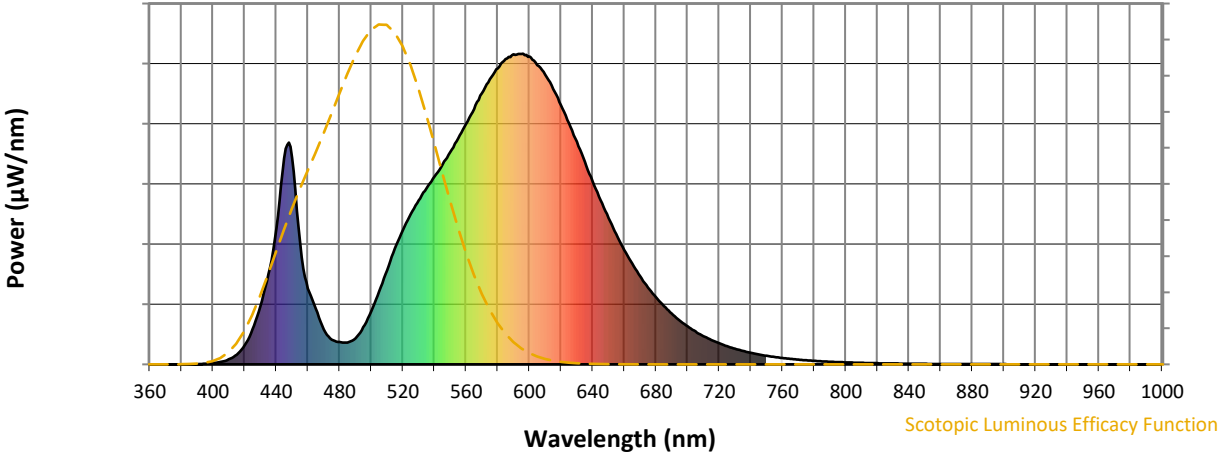


**Photopic Lumens: NR**

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

REPORT NUMBER: SP1-2410-249-1

Scotopic Flux vs. Wavelength



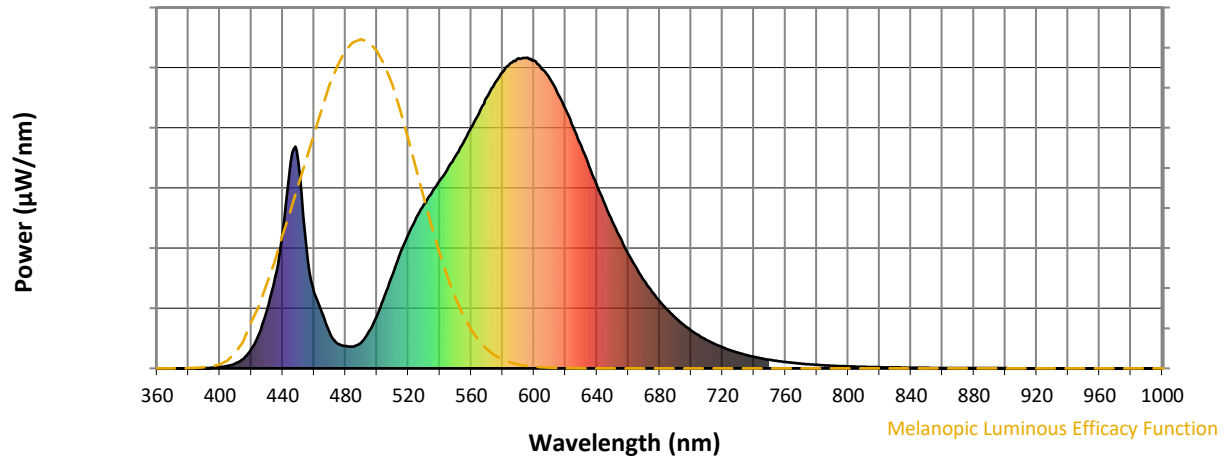
Scotopic Lumens: NR S/P: 1.21

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



REPORT NUMBER: SP1-2410-249-1

Melanopic Flux vs. Wavelength



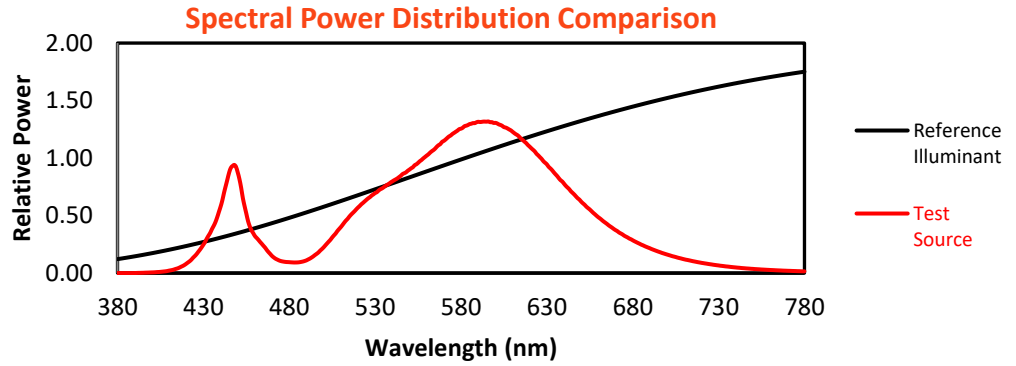
Melanopic Lumens: NR

M/P: 2.18

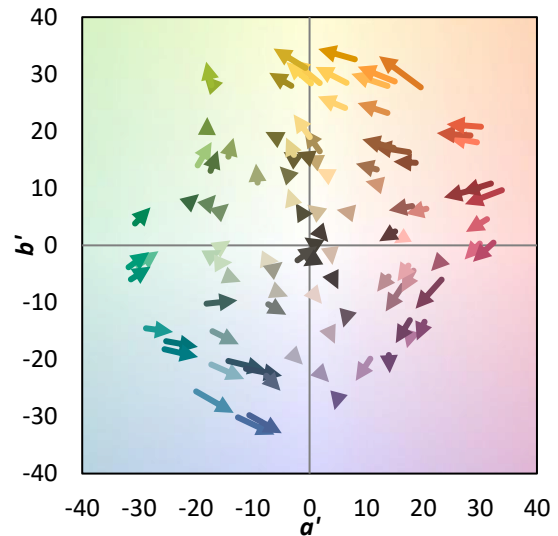
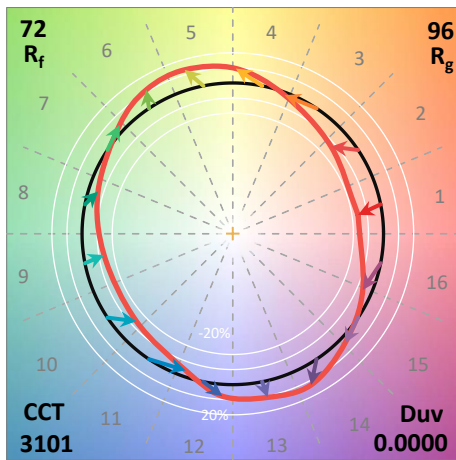
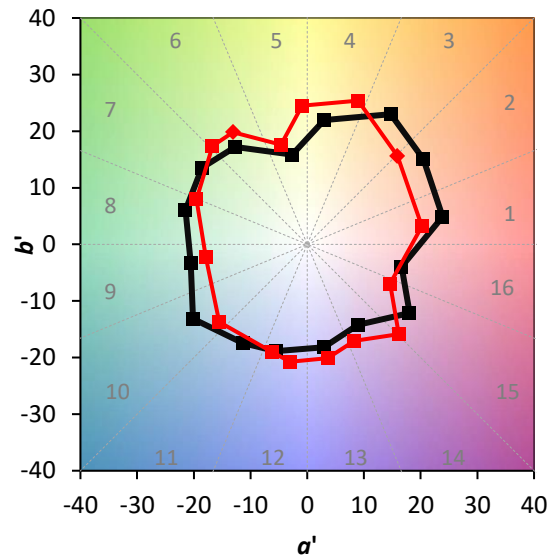
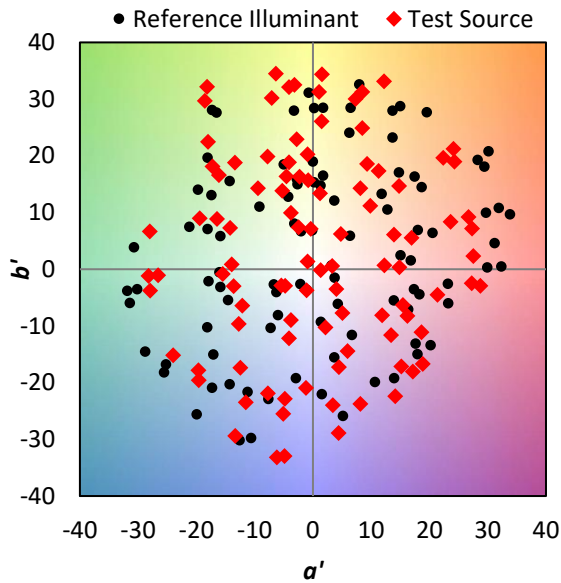
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	84	NR	620	834	NR	750	28	NR	880	1	NR
365	0	NR	495	119	NR	625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

**Summary**

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

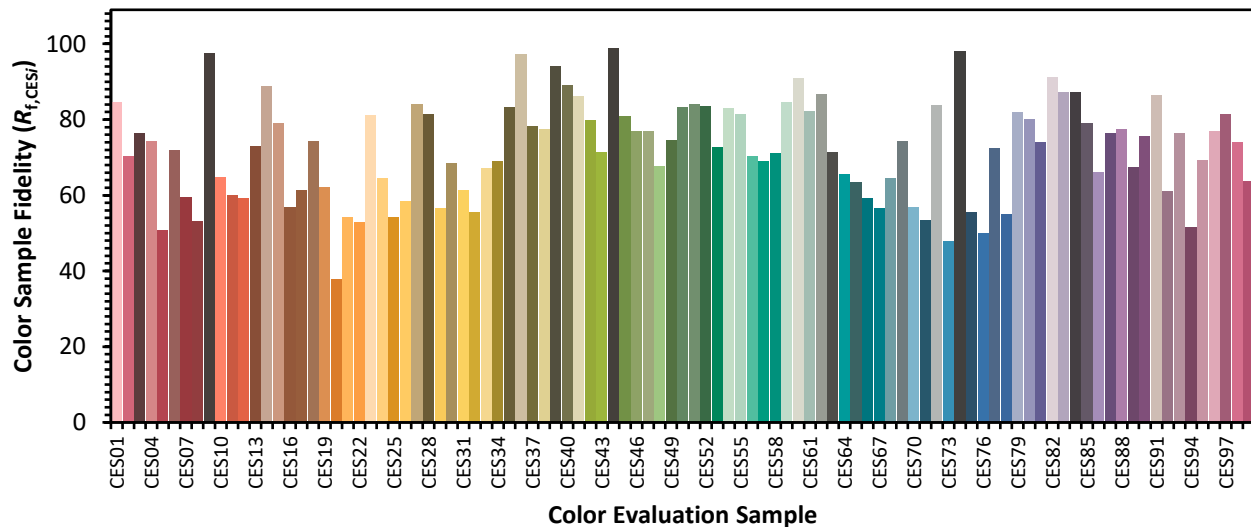


**Color Vector Graphics**

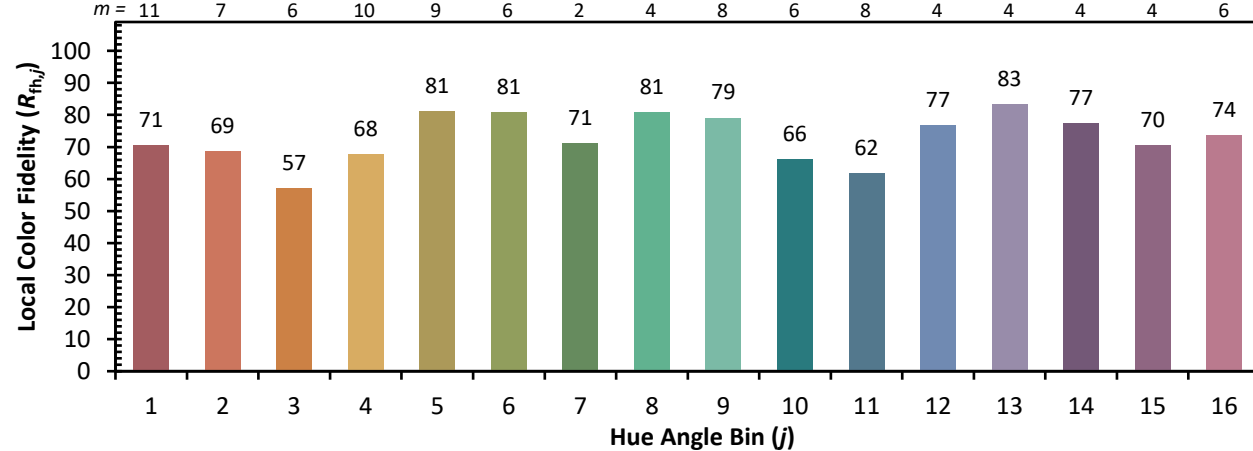
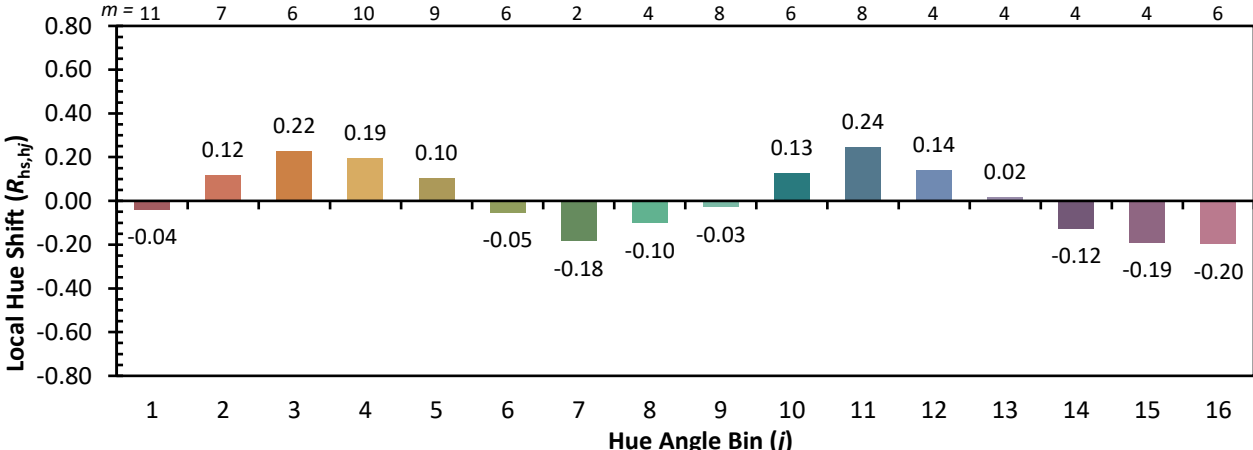
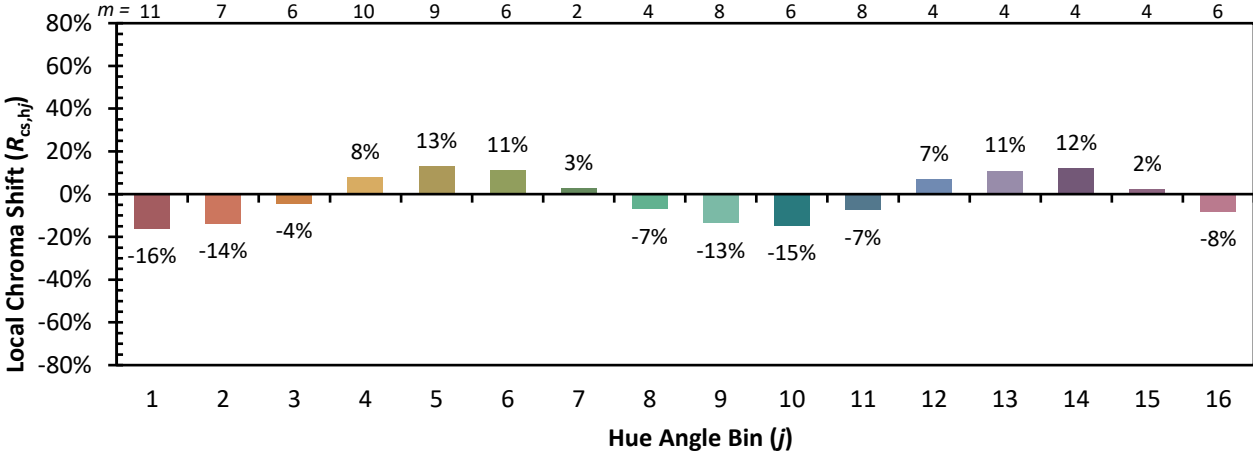


Individual Sample Fidelity Index ( $R_{f,i}$ )

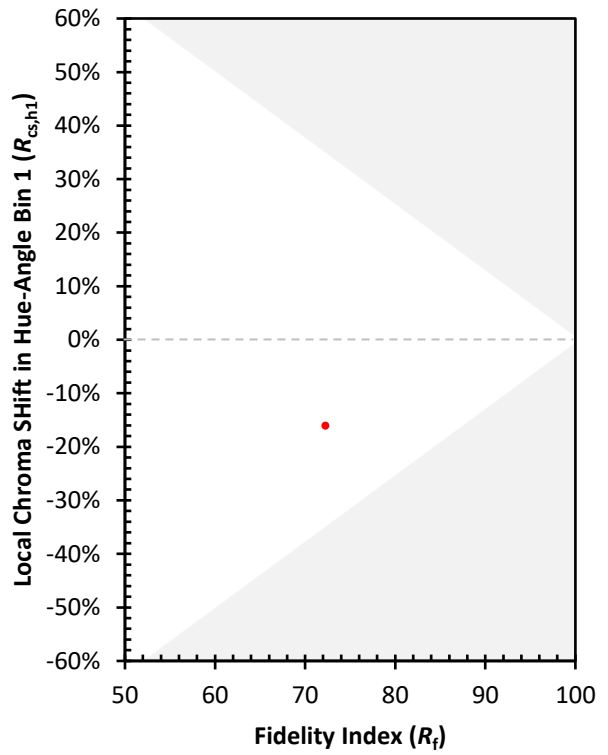
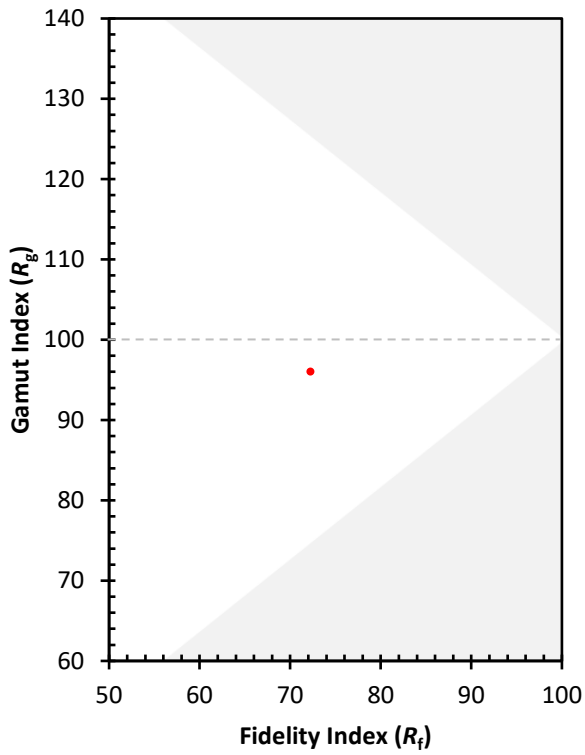
CES01 = 86	CES26 = 58	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 84	CES52 = 84	CES77 = 73
CES03 = 31	CES28 = 81	CES53 = 73	CES78 = 55
CES04 = 71	CES29 = 57	CES54 = 83	CES79 = 82
CES05 = 49	CES30 = 69	CES55 = 82	CES80 = 80
CES06 = 51	CES31 = 61	CES56 = 70	CES81 = 74
CES07 = 41	CES32 = 56	CES57 = 69	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)