

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: P973048

Luminaire Tested: **WP-6984-100W-5000K**

Issue Date: 03/12/2025

Test Information

Test Method: LM-79-08
Report Number: P973048
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 03/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WP-6984-100W-5000K
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @100W-5000K
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13351.4 lumens
Efficiency: N/A
Efficacy: 136.5 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

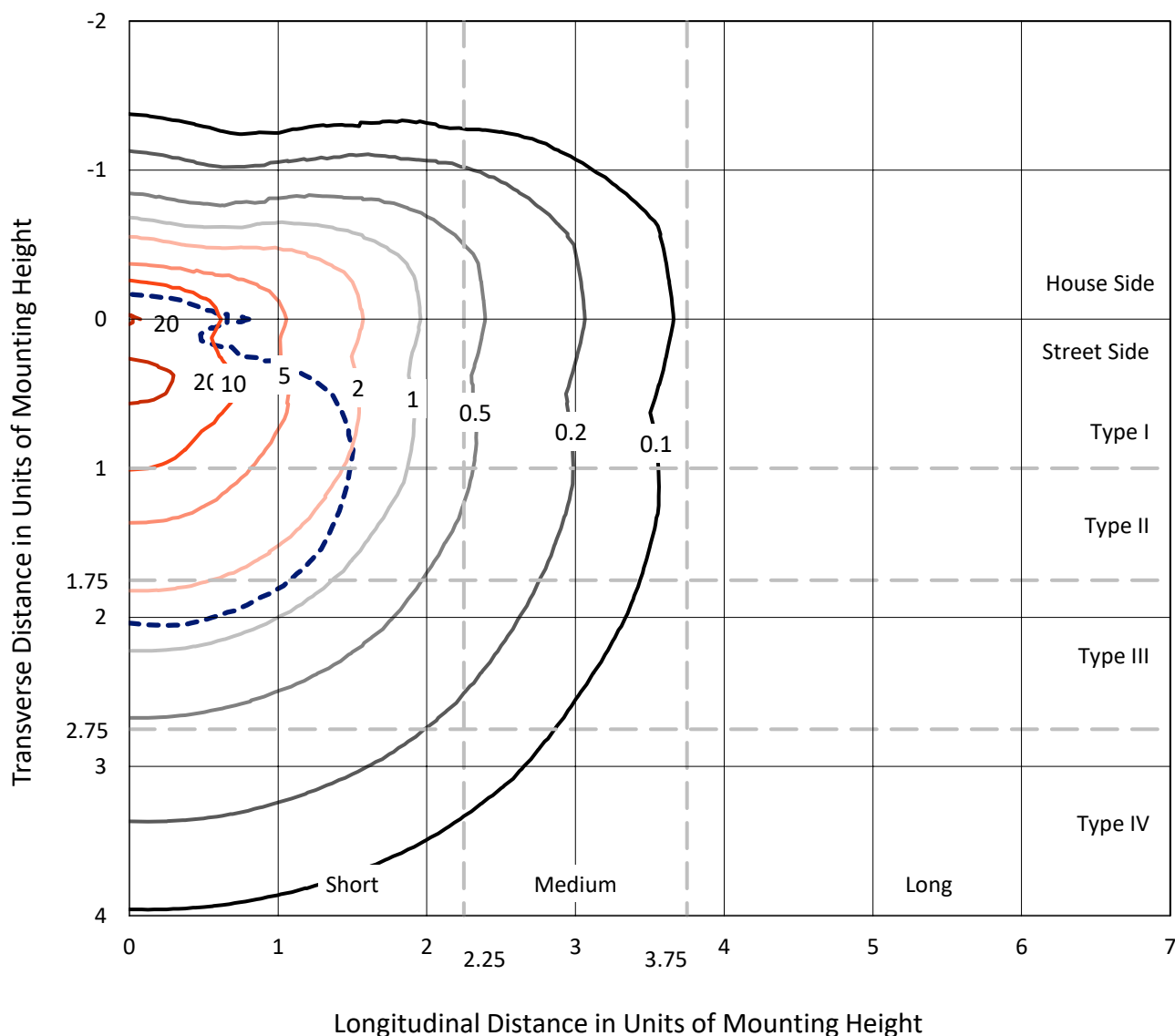
Input Watts (W): 97.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

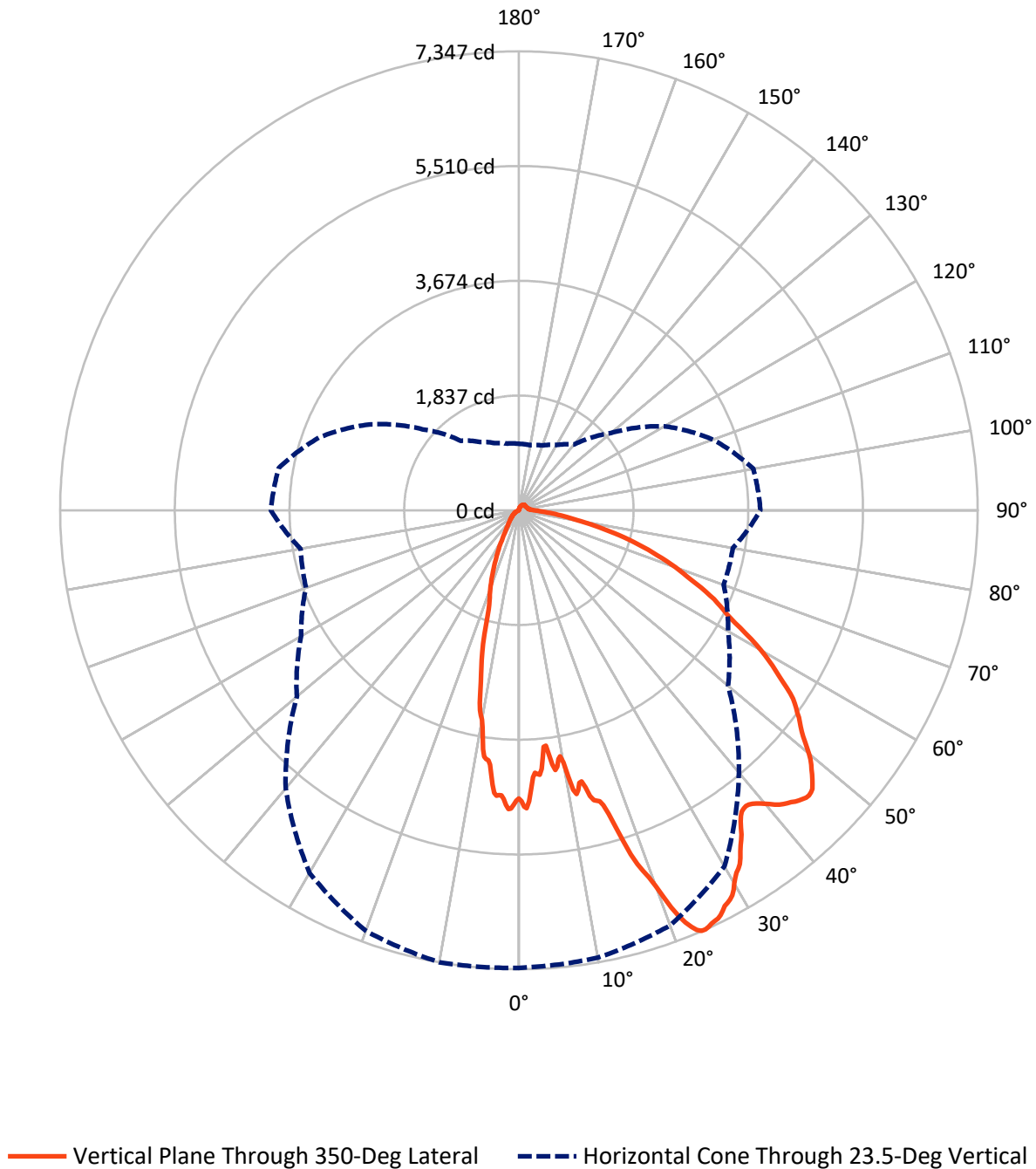
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 25.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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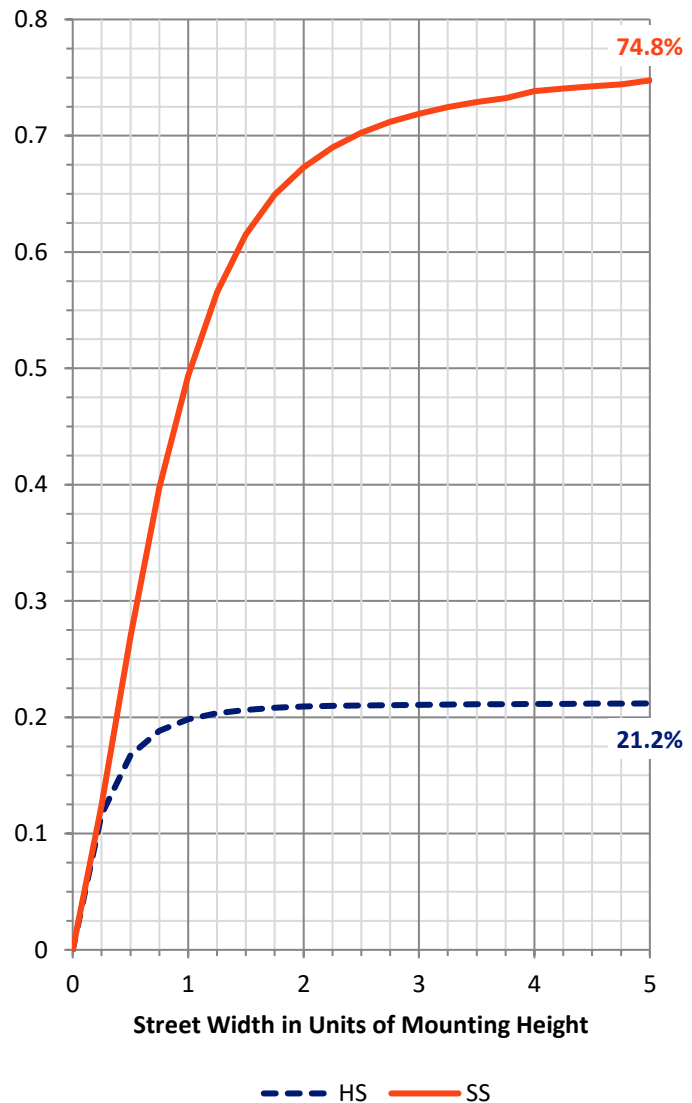
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2861.6	67.8	2929.4
	% Fixture	21.4	0.5	21.9
Street Side	Lumens	10089.2	332.8	10422.0
	% Fixture	75.6	2.5	78.1
Total	Lumens	12950.8	400.6	13351.4
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.5	3.1
10°-20°	1081.5	8.1
20°-30°	1696.4	12.7
30°-40°	2048.1	15.3
40°-50°	2332.9	17.5
50°-60°	2317.2	17.4
60°-70°	1773.8	13.3
70°-80°	988.6	7.4
80°-90°	302.7	2.3
90°-100°	90.1	0.7
100°-110°	72.9	0.5
110°-120°	67.0	0.5
120°-130°	60.4	0.5
130°-140°	52.1	0.4
140°-150°	36.1	0.3
150°-160°	17.3	0.1
160°-170°	4.2	0.0
170°-180°	0.5	0.0
0°-90°	12950.8	97.0
0°-180°	13351.4	100.0



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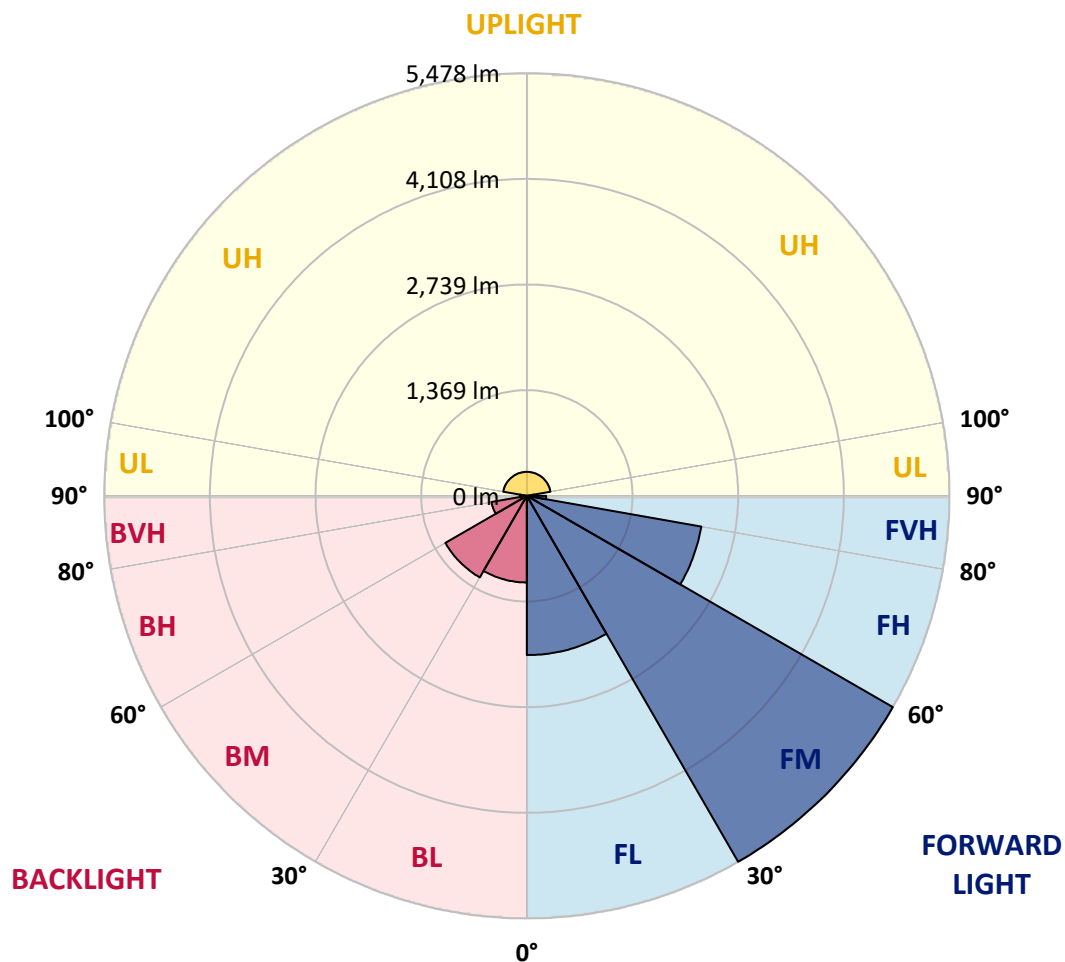
CATALOG NUMBER: WP-6984-100W-5000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2064.4	15.5			
FM	(30°-60°)	5477.8	41.0			
FH	(60°-80°)	2297.2	17.2			G2/5000
FVH	(80°-90°)	249.8	1.9			G3/500
BL	(0°-30°)	1123.0	8.4	B3/2500		
BM	(30°-60°)	1220.5	9.1	B2/2500		
BH	(60°-80°)	465.2	3.5	B1/500		G1/500
BVH	(80°-90°)	52.9	0.4			G1/100
UL	(90°-100°)	90.1	0.7		U3/500	
UH	(100°-180°)	310.6	2.3		U3/500	

BUG Rating: B3-U3-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2
0.5°	4731.1	4729.2	4729.0	4730.2	4728.4	4718.6	4707.2	4693.7	4678.2	4663.2	4649.0
1°	4684.4	4689.1	4707.4	4726.3	4747.1	4752.7	4743.7	4724.9	4688.1	4658.5	4634.0
1.5°	4517.0	4530.5	4562.8	4617.4	4676.4	4723.8	4750.6	4741.0	4694.6	4648.8	4613.1
2°	4306.3	4320.9	4365.7	4441.4	4536.7	4633.5	4723.5	4747.7	4709.3	4639.4	4593.9
2.5°	4183.1	4191.6	4211.8	4267.5	4369.5	4509.8	4654.8	4733.5	4717.8	4635.9	4580.4
3°	4179.9	4172.5	4169.2	4178.7	4235.0	4372.0	4558.6	4702.3	4712.6	4623.8	4564.5
3.5°	4211.4	4203.1	4193.3	4170.6	4173.6	4250.6	4448.8	4650.2	4701.8	4609.5	4546.1
4°	4167.6	4180.7	4196.0	4191.1	4162.0	4179.6	4339.8	4586.1	4689.5	4602.9	4537.7
4.5°	4000.5	4036.8	4105.5	4180.7	4173.5	4150.1	4243.9	4515.3	4675.2	4584.8	4527.2
5°	3807.4	3835.8	3922.5	4072.0	4171.5	4143.0	4170.2	4431.9	4650.3	4567.8	4523.9
5.5°	3740.4	3739.4	3761.7	3899.2	4094.3	4154.1	4128.4	4352.0	4625.3	4550.0	4514.6
6°	3836.5	3800.0	3739.8	3756.6	3954.4	4142.1	4100.3	4271.3	4598.0	4532.0	4513.0
6.5°	4019.1	3968.8	3846.2	3731.4	3801.7	4081.1	4094.7	4196.6	4571.1	4515.3	4505.8
7°	4150.6	4128.0	4016.5	3816.3	3715.7	3974.8	4097.4	4134.1	4530.0	4497.5	4500.2
7.5°	4133.7	4145.8	4141.6	3965.7	3720.3	3835.9	4096.7	4085.6	4483.1	4472.5	4487.9
8°	4009.3	4031.0	4109.6	4099.5	3801.0	3723.3	4068.5	4046.3	4443.7	4450.2	4471.4
8.5°	3939.5	3928.7	3985.7	4119.0	3944.5	3660.6	4009.4	4019.2	4396.6	4422.0	4460.2
9°	4019.3	3954.0	3898.0	4028.8	4059.9	3658.8	3918.2	3997.6	4343.4	4404.6	4445.9
9.5°	4243.6	4157.6	3950.0	3914.0	4094.7	3730.9	3808.2	3987.5	4289.3	4392.1	4428.2
10°	4485.6	4402.3	4139.6	3875.6	4028.2	3847.8	3698.5	3981.9	4240.0	4374.7	4416.8
10.5°	4594.4	4558.2	4387.8	3970.3	3913.5	3951.9	3621.5	3977.6	4188.9	4363.0	4402.2
11°	4543.7	4549.7	4535.6	4181.8	3836.1	4013.7	3581.2	3967.4	4142.7	4356.8	4390.0
11.5°	4429.8	4443.7	4521.6	4393.4	3842.4	4002.4	3592.0	3947.8	4101.4	4346.1	4381.2
12°	4406.5	4372.0	4414.6	4506.8	3965.6	3934.4	3643.9	3912.6	4063.1	4336.6	4369.9
12.5°	4518.9	4440.6	4330.5	4482.7	4154.7	3839.5	3717.5	3853.5	4016.4	4328.3	4358.9
13°	4675.1	4594.4	4378.3	4371.3	4334.9	3772.6	3812.4	3794.4	3973.7	4313.4	4342.9
13.5°	4754.0	4699.3	4515.6	4278.1	4432.1	3766.6	3892.4	3718.5	3932.8	4292.9	4323.8
14°	4765.5	4719.4	4627.8	4304.0	4412.7	3838.2	3938.8	3646.9	3892.4	4269.0	4301.2
14.5°	4775.7	4701.3	4656.4	4424.6	4317.7	3990.0	3937.6	3578.5	3856.0	4246.9	4279.4
15°	4840.6	4727.9	4627.6	4530.2	4212.4	4156.9	3897.8	3519.8	3821.0	4230.5	4253.5
15.5°	5014.8	4859.3	4620.1	4571.1	4184.1	4297.9	3833.3	3478.1	3788.9	4207.9	4231.6
16°	5251.3	5070.5	4704.2	4541.2	4259.3	4365.6	3754.4	3455.5	3762.0	4187.5	4207.7
16.5°	5507.9	5327.0	4878.0	4501.7	4376.9	4353.5	3691.9	3457.2	3741.6	4165.8	4181.8
17°	5729.0	5561.9	5102.4	4526.3	4457.5	4279.0	3667.3	3479.2	3724.4	4144.7	4159.0
17.5°	5898.4	5728.4	5326.3	4633.9	4470.3	4182.8	3690.0	3511.2	3709.5	4125.2	4136.2
18°	6029.4	5873.7	5515.1	4815.0	4428.4	4108.4	3757.7	3558.9	3694.7	4102.3	4113.0
18.5°	6162.6	5998.8	5655.8	5019.3	4392.3	4104.8	3874.9	3615.7	3678.0	4081.5	4090.8
19°	6332.0	6134.6	5773.5	5202.3	4399.8	4168.2	3991.4	3661.9	3668.3	4058.4	4069.2
19.5°	6546.2	6317.9	5882.1	5355.1	4482.3	4257.7	4102.5	3704.4	3651.1	4034.4	4047.3
20°	6767.8	6541.9	6013.6	5475.1	4616.6	4312.8	4170.6	3722.7	3637.6	4011.5	4020.4
20.5°	6951.9	6763.2	6206.6	5596.1	4779.6	4317.0	4187.7	3723.0	3620.8	3986.9	3993.4
21°	7092.8	6928.4	6414.1	5707.7	4944.1	4279.7	4148.2	3705.1	3599.3	3966.8	3964.9
21.5°	7199.5	7070.7	6626.1	5827.6	5079.7	4231.0	4075.7	3672.1	3576.6	3945.1	3936.6
22°	7279.1	7182.1	6810.2	5988.4	5191.6	4197.2	3987.7	3622.1	3553.0	3924.4	3906.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	7318.4	7236.3	6945.4	6181.3	5292.7	4211.5	3909.3	3569.8	3530.2	3903.8	3876.2
23°	7332.9	7264.1	7032.7	6386.7	5386.0	4273.3	3862.4	3526.0	3504.6	3885.7	3845.2
23.5°	7324.8	7272.8	7074.2	6580.8	5481.0	4371.5	3867.9	3489.8	3478.3	3866.9	3812.4
24°	7299.8	7269.1	7114.4	6728.2	5576.0	4488.7	3908.2	3471.8	3449.3	3849.3	3782.5
24.5°	7275.3	7246.4	7141.7	6819.3	5691.8	4609.7	3967.3	3472.1	3417.4	3826.8	3752.5
25°	7238.1	7202.3	7142.8	6856.2	5844.8	4722.7	4013.7	3489.2	3389.6	3810.1	3723.0
25.5°	7199.0	7154.9	7109.4	6876.1	6021.5	4816.9	4034.4	3530.5	3356.8	3790.6	3695.7
26°	7154.1	7117.0	7045.6	6916.7	6194.0	4895.1	4020.2	3582.7	3331.1	3772.1	3670.7
26.5°	7123.9	7088.6	6987.3	6941.1	6341.6	4963.7	3985.3	3649.7	3307.2	3757.3	3644.5
27°	7100.9	7055.7	6955.8	6933.5	6435.3	5030.6	3944.5	3714.4	3289.3	3743.7	3619.1
27.5°	7049.1	7017.0	6925.9	6877.8	6458.0	5094.6	3917.7	3761.2	3273.4	3731.8	3596.2
28°	6987.2	6966.7	6904.1	6804.1	6452.1	5157.9	3913.7	3791.1	3259.1	3719.9	3573.1
28.5°	6915.8	6909.9	6869.3	6724.6	6452.9	5239.7	3935.2	3801.4	3249.7	3709.0	3554.0
29°	6848.5	6844.3	6823.6	6683.5	6492.2	5342.7	3981.9	3792.5	3241.3	3696.8	3535.9
29.5°	6779.1	6782.2	6771.8	6658.8	6529.6	5466.4	4046.3	3767.2	3236.6	3686.8	3520.0
30°	6724.8	6724.4	6705.4	6631.6	6520.5	5588.0	4114.6	3734.0	3238.2	3677.0	3503.1
30.5°	6667.7	6684.1	6651.2	6597.3	6460.3	5697.4	4184.3	3693.4	3241.2	3669.3	3487.7
31°	6605.7	6622.2	6611.7	6545.7	6361.0	5776.1	4254.1	3654.7	3247.7	3662.3	3472.4
31.5°	6538.1	6547.4	6580.8	6493.9	6279.1	5808.9	4310.8	3626.4	3253.8	3654.4	3458.7
32°	6465.1	6478.0	6525.0	6432.1	6231.7	5813.5	4354.1	3611.9	3262.1	3647.6	3445.4
32.5°	6407.8	6430.6	6437.8	6371.5	6212.2	5809.3	4393.8	3612.3	3270.4	3641.0	3434.4
33°	6342.6	6396.0	6361.1	6331.6	6186.3	5813.0	4426.3	3626.2	3282.8	3634.7	3422.1
33.5°	6250.7	6330.1	6311.7	6300.9	6146.2	5831.0	4462.9	3648.5	3293.5	3629.6	3407.3
34°	6140.6	6218.7	6290.8	6256.5	6101.0	5852.6	4508.1	3673.2	3303.5	3625.5	3390.3
34.5°	6051.4	6110.1	6248.8	6180.6	6059.4	5854.2	4551.3	3690.9	3309.3	3622.6	3375.0
35°	5991.6	6022.8	6161.1	6090.8	6011.3	5824.7	4597.1	3696.2	3313.3	3617.6	3362.0
35.5°	5955.5	5962.3	6040.4	6011.5	5961.0	5769.1	4653.2	3695.4	3315.1	3613.5	3349.8
36°	5937.0	5928.0	5942.6	5979.8	5903.0	5708.7	4710.2	3682.2	3310.4	3608.2	3335.5
36.5°	5941.4	5927.9	5877.8	5961.3	5855.3	5663.4	4769.4	3664.5	3304.7	3604.7	3322.6
37°	5963.7	5943.2	5836.5	5896.8	5826.5	5628.9	4822.1	3649.4	3297.0	3597.5	3309.8
37.5°	5989.8	5970.2	5814.8	5795.8	5791.1	5600.6	4865.0	3637.3	3286.9	3590.4	3297.6
38°	6029.5	6009.2	5807.8	5686.2	5747.2	5570.7	4897.7	3628.2	3275.7	3579.3	3281.3
38.5°	6069.7	6053.2	5814.9	5613.0	5679.0	5534.9	4917.8	3626.4	3262.2	3567.2	3266.8
39°	6117.2	6104.4	5827.7	5563.8	5615.1	5490.4	4923.2	3630.1	3249.4	3552.0	3249.9
39.5°	6163.7	6154.2	5857.9	5524.6	5573.8	5451.7	4923.8	3637.2	3234.0	3539.5	3232.0
40°	6210.1	6197.2	5895.4	5492.4	5556.3	5417.9	4923.8	3649.9	3221.1	3527.1	3215.8
40.5°	6254.3	6236.5	5931.3	5467.3	5530.3	5386.6	4924.0	3659.8	3211.5	3518.0	3202.1
41°	6292.2	6276.4	5964.5	5456.2	5478.4	5353.2	4921.3	3668.6	3202.6	3510.5	3189.8
41.5°	6329.3	6308.5	5995.8	5449.5	5411.0	5320.3	4914.6	3678.2	3198.5	3503.1	3178.1
42°	6350.3	6346.1	6027.7	5453.7	5348.9	5290.7	4895.2	3688.6	3194.5	3498.3	3168.7
42.5°	6386.2	6371.0	6056.7	5464.2	5302.9	5262.7	4873.1	3696.0	3193.3	3490.8	3158.4
43°	6425.2	6406.1	6095.9	5476.7	5267.7	5233.4	4842.1	3705.1	3193.6	3486.1	3149.3
43.5°	6455.0	6433.4	6127.3	5488.2	5237.8	5201.0	4806.8	3711.0	3196.2	3483.5	3143.9
44°	6476.0	6454.5	6155.6	5493.9	5210.2	5160.5	4775.2	3712.4	3200.4	3479.9	3137.8
44.5°	6471.2	6473.4	6172.5	5507.4	5190.7	5121.7	4747.2	3714.7	3207.5	3475.6	3135.6



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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	6462.1	6463.4	6186.2	5515.3	5175.1	5091.4	4726.8	3713.5	3215.3	3471.1	3133.3
45.5°	6423.3	6459.2	6188.3	5518.6	5158.6	5061.1	4705.4	3715.9	3217.8	3467.4	3125.0
46°	6383.5	6424.7	6180.1	5520.0	5147.3	5036.5	4686.2	3721.4	3218.4	3459.1	3118.5
46.5°	6313.3	6380.4	6170.0	5515.4	5138.6	5009.7	4669.0	3727.4	3216.5	3450.2	3109.1
47°	6253.6	6312.8	6138.0	5509.4	5131.2	4973.9	4652.6	3732.3	3207.1	3441.2	3098.8
47.5°	6186.3	6249.1	6102.4	5492.8	5124.1	4929.9	4634.5	3738.9	3196.1	3430.1	3089.7
48°	6141.5	6207.9	6044.1	5466.9	5110.3	4889.0	4613.6	3741.0	3181.3	3417.9	3080.8
48.5°	6086.6	6168.2	5994.3	5442.2	5089.7	4849.3	4590.1	3739.2	3164.9	3406.6	3068.0
49°	6014.5	6114.6	5932.7	5416.3	5067.5	4809.7	4563.2	3741.6	3148.9	3394.7	3052.8
49.5°	5931.1	6047.8	5889.8	5384.7	5047.0	4769.5	4537.0	3738.9	3126.5	3380.4	3040.7
50°	5848.4	5956.2	5844.0	5348.6	5018.9	4734.3	4512.7	3739.5	3104.1	3364.4	3025.5
50.5°	5783.2	5874.9	5789.1	5305.7	4992.5	4697.5	4490.9	3739.3	3079.8	3349.3	3011.0
51°	5727.9	5791.3	5714.1	5262.7	4960.7	4655.5	4463.7	3731.6	3052.8	3331.1	2994.9
51.5°	5680.1	5727.0	5646.5	5213.2	4922.9	4612.5	4434.5	3723.5	3023.2	3311.3	2977.8
52°	5630.9	5684.8	5576.0	5166.8	4880.0	4570.4	4403.3	3713.5	2994.4	3289.3	2955.9
52.5°	5586.9	5646.2	5504.1	5119.4	4834.6	4526.6	4372.1	3699.1	2963.5	3271.4	2932.2
53°	5526.2	5599.7	5451.1	5078.7	4788.4	4477.0	4337.8	3681.4	2930.3	3246.3	2908.2
53.5°	5465.1	5530.5	5411.3	5039.2	4738.9	4426.3	4299.0	3663.8	2898.4	3217.4	2884.0
54°	5410.2	5466.1	5383.2	4984.7	4694.3	4378.5	4259.4	3641.7	2864.5	3188.4	2862.7
54.5°	5348.3	5397.4	5335.8	4937.2	4651.5	4328.4	4212.8	3617.9	2830.7	3148.5	2836.9
55°	5269.2	5321.6	5261.2	4894.5	4604.6	4281.6	4162.7	3588.1	2791.2	3108.0	2804.1
55.5°	5173.1	5229.2	5182.1	4853.1	4559.1	4231.9	4112.2	3545.6	2752.6	3069.3	2771.7
56°	5073.3	5133.3	5112.4	4812.9	4505.7	4183.3	4061.6	3497.5	2716.0	3028.7	2739.8
56.5°	4961.6	5025.3	5034.7	4768.2	4458.8	4134.4	4009.1	3446.1	2677.3	2985.6	2708.9
57°	4872.1	4919.8	4940.3	4710.2	4416.3	4090.3	3949.1	3391.4	2636.7	2941.7	2681.8
57.5°	4789.9	4836.4	4846.1	4642.5	4377.8	4044.3	3887.5	3341.8	2597.1	2895.0	2653.1
58°	4700.9	4766.3	4749.5	4566.8	4337.5	4001.6	3823.1	3293.3	2557.2	2849.4	2623.9
58.5°	4615.1	4692.1	4658.8	4486.5	4292.3	3957.6	3757.9	3242.7	2514.5	2802.7	2598.6
59°	4517.6	4609.8	4572.8	4407.4	4229.5	3909.9	3695.5	3184.7	2473.5	2758.9	2573.9
59.5°	4406.9	4512.0	4491.7	4327.4	4157.7	3860.3	3635.2	3127.8	2434.5	2710.6	2539.2
60°	4278.0	4399.3	4410.0	4256.1	4084.5	3807.5	3571.6	3071.3	2392.7	2659.8	2506.3
60.5°	4153.5	4271.7	4315.2	4183.2	4009.5	3746.3	3507.5	3013.6	2350.7	2610.9	2467.2
61°	4030.2	4147.8	4205.8	4112.5	3939.0	3684.6	3441.3	2953.9	2306.8	2561.3	2427.8
61.5°	3915.1	4026.0	4093.9	4034.8	3865.9	3624.1	3379.4	2896.0	2265.3	2516.3	2396.7
62°	3816.5	3921.0	3981.4	3955.1	3786.5	3559.4	3315.1	2836.2	2225.0	2471.2	2365.8
62.5°	3729.2	3826.5	3870.9	3859.0	3711.8	3481.6	3254.6	2775.1	2184.9	2423.1	2323.1
63°	3666.5	3742.1	3769.5	3765.1	3642.5	3407.5	3194.9	2716.1	2147.3	2374.3	2284.3
63.5°	3607.6	3670.0	3678.0	3672.6	3568.0	3333.0	3136.5	2661.0	2105.0	2326.7	2242.2
64°	3543.2	3609.4	3592.2	3579.6	3488.3	3255.4	3073.7	2605.2	2061.4	2276.4	2199.9
64.5°	3473.2	3547.8	3516.6	3490.7	3407.1	3171.2	3013.4	2553.3	2018.0	2228.2	2154.8
65°	3403.7	3476.7	3455.4	3415.7	3328.3	3090.1	2954.1	2500.2	1971.3	2178.2	2108.2
65.5°	3309.2	3382.5	3383.6	3341.7	3252.0	3007.5	2892.9	2443.1	1927.2	2128.6	2065.2
66°	3202.5	3286.8	3307.0	3270.3	3176.1	2926.1	2826.7	2383.0	1881.4	2083.0	2020.3
66.5°	3099.9	3177.9	3213.5	3202.2	3102.2	2845.8	2750.2	2325.7	1839.0	2036.5	1972.9
67°	3004.3	3069.1	3125.2	3127.7	3029.9	2771.9	2669.7	2269.1	1794.2	1990.2	1922.3

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2915.7	2974.7	3031.1	3042.8	2954.4	2702.3	2586.4	2211.4	1749.2	1940.7	1881.5
68°	2836.4	2891.9	2933.3	2956.2	2878.1	2629.1	2507.9	2155.6	1705.3	1892.5	1833.4
68.5°	2758.9	2804.8	2834.9	2868.9	2803.1	2561.8	2423.1	2096.4	1661.9	1846.2	1786.9
69°	2687.0	2721.0	2745.2	2780.4	2724.8	2497.2	2341.2	2042.3	1615.9	1799.0	1737.1
69.5°	2607.3	2646.7	2658.9	2688.8	2642.1	2432.3	2258.6	1987.0	1566.1	1746.3	1685.2
70°	2518.5	2559.6	2574.0	2604.1	2558.3	2358.3	2179.3	1930.8	1518.4	1695.7	1641.1
70.5°	2431.3	2474.0	2494.1	2522.8	2476.3	2283.4	2107.6	1874.4	1468.9	1645.4	1586.8
71°	2346.6	2388.5	2411.7	2444.1	2389.9	2209.7	2033.2	1819.1	1422.5	1592.1	1536.2
71.5°	2262.1	2300.4	2323.7	2358.2	2302.2	2130.9	1962.0	1769.0	1378.6	1543.4	1482.6
72°	2186.2	2223.6	2235.7	2272.5	2219.7	2052.9	1893.0	1715.9	1334.7	1494.0	1428.6
72.5°	2110.4	2146.0	2159.7	2188.5	2139.7	1973.5	1822.0	1663.0	1290.7	1445.1	1379.0
73°	2027.4	2071.0	2085.4	2107.7	2056.9	1896.7	1754.2	1614.3	1248.4	1396.0	1329.1
73.5°	1943.6	1989.0	2005.5	2024.4	1978.0	1821.8	1690.7	1562.0	1204.3	1347.7	1278.1
74°	1861.7	1906.7	1921.4	1942.9	1900.4	1746.7	1632.6	1504.3	1158.4	1299.6	1228.2
74.5°	1766.8	1811.3	1838.1	1860.8	1822.0	1674.8	1574.5	1437.0	1114.9	1247.6	1181.3
75°	1674.7	1712.3	1747.9	1778.6	1747.5	1605.5	1517.5	1372.7	1071.7	1199.8	1134.7
75.5°	1584.1	1621.3	1661.4	1696.5	1673.1	1538.2	1457.3	1306.6	1021.8	1146.7	1086.3
76°	1493.3	1531.3	1573.2	1609.6	1596.7	1467.2	1395.1	1235.5	971.6	1094.2	1038.8
76.5°	1407.0	1443.7	1486.4	1525.3	1521.3	1397.9	1329.9	1164.5	920.6	1043.0	994.7
77°	1325.4	1362.0	1406.7	1444.2	1446.2	1331.6	1265.6	1100.9	875.8	993.9	948.7
77.5°	1244.3	1282.2	1326.7	1363.8	1367.4	1266.9	1200.0	1038.3	831.6	941.7	903.4
78°	1167.3	1201.6	1250.3	1285.2	1294.4	1199.4	1132.8	980.6	785.4	891.3	855.7
78.5°	1095.6	1128.6	1174.0	1209.9	1220.7	1132.9	1069.0	923.4	743.4	839.4	810.9
79°	1026.3	1058.2	1095.9	1136.3	1145.8	1069.9	1013.9	872.1	702.3	789.5	767.2
79.5°	955.7	987.2	1024.1	1062.3	1071.5	1006.7	960.1	821.2	661.2	741.4	737.3
80°	896.6	923.6	955.1	992.0	1001.9	943.9	904.9	774.4	620.1	695.9	693.6
80.5°	838.3	865.6	886.8	923.0	935.4	887.5	854.5	729.7	579.0	650.4	648.9
81°	783.7	806.0	825.7	856.2	871.4	832.0	802.6	685.6	537.9	604.9	604.3
81.5°	735.8	753.9	767.8	794.6	807.9	774.4	749.4	641.6	501.6	559.4	559.7
82°	689.2	705.9	716.7	738.1	746.9	715.5	699.7	597.6	466.0	514.0	516.1
82.5°	642.6	658.2	669.3	690.0	697.9	666.5	650.1	553.5	429.8	473.4	475.0
83°	596.0	610.5	621.8	642.5	649.1	617.5	600.5	511.5	393.1	433.2	436.8
83.5°	549.4	562.7	574.4	595.0	600.4	568.5	551.0	473.8	358.8	394.2	402.8
84°	502.8	515.0	527.0	547.6	551.6	519.5	501.4	437.1	326.4	355.3	367.9
84.5°	463.9	476.2	485.8	500.1	502.9	478.9	459.7	399.6	295.4	317.8	332.6
85°	426.7	439.6	447.7	460.6	464.2	442.1	420.5	365.7	265.7	281.7	298.7
85.5°	394.8	407.0	413.2	425.1	429.9	408.5	383.2	332.7	238.9	248.9	267.7
86°	365.6	376.5	381.9	392.8	398.0	377.9	350.8	302.1	215.1	217.4	238.5
86.5°	339.1	349.0	353.2	362.9	368.4	350.1	321.4	272.7	191.2	187.2	209.9
87°	315.4	325.2	328.1	335.3	340.8	324.6	296.3	245.9	169.1	160.5	184.1
87.5°	295.1	303.1	306.0	311.4	316.2	301.8	273.5	224.9	150.3	136.6	160.3
88°	276.3	282.0	285.4	288.7	293.4	280.8	252.0	204.9	135.0	115.5	138.6
88.5°	260.5	265.3	267.0	269.5	273.0	261.8	234.2	189.0	122.4	97.6	121.8
89°	246.1	250.0	250.8	252.4	254.2	244.8	218.5	175.0	112.1	84.0	108.5
89.5°	233.2	236.2	235.9	236.3	237.5	229.8	204.5	163.7	103.5	72.7	98.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	222.3	224.1	222.8	222.3	222.6	216.2	192.2	153.4	96.5	66.7	89.5
90.5°	212.4	214.1	212.0	210.8	210.3	204.9	181.3	145.3	91.2	60.6	82.0
91°	203.9	205.2	202.2	199.9	199.1	193.8	171.6	138.6	86.8	54.6	76.3
91.5°	196.8	198.0	194.1	190.6	188.5	183.2	163.7	132.8	83.0	48.6	73.5
92°	190.4	191.0	186.2	181.6	177.8	174.4	156.9	128.2	80.0	45.5	70.8
92.5°	183.0	183.8	178.0	172.5	169.7	167.1	151.3	124.3	77.6	43.5	68.2
93°	176.2	176.8	170.6	165.3	163.2	160.4	146.2	120.7	75.9	42.2	65.6
93.5°	171.5	171.9	165.5	160.1	157.4	154.6	141.8	117.8	74.8	41.5	63.0
94°	168.1	168.3	161.3	155.5	152.2	149.6	138.0	115.1	73.8	41.0	62.2
94.5°	165.3	165.5	158.0	151.6	147.5	145.2	134.5	112.6	72.8	40.7	61.6
95°	163.1	163.3	155.5	148.1	143.5	141.3	131.1	110.3	71.8	40.6	60.4
95.5°	161.0	161.1	153.0	145.6	140.4	137.9	128.5	108.2	70.8	40.5	59.9
96°	158.5	158.8	151.0	143.3	137.6	134.9	125.9	106.3	70.2	40.3	59.6
96.5°	157.0	157.3	149.3	141.2	135.0	132.2	123.3	104.5	69.8	40.5	59.4
97°	156.0	156.3	148.1	139.4	132.8	129.6	121.0	102.9	69.6	40.9	59.1
97.5°	155.1	155.2	147.0	138.1	131.0	127.2	118.7	101.4	69.7	41.4	58.7
98°	154.1	154.2	146.0	136.8	129.2	124.9	116.5	100.3	69.9	41.9	58.3
98.5°	152.9	153.3	145.2	135.5	127.6	123.0	114.8	99.3	70.0	42.4	57.8
99°	152.1	152.3	144.3	134.3	126.2	121.2	113.1	98.6	70.2	42.9	57.3
99.5°	151.2	151.4	143.4	133.3	125.0	119.6	111.7	98.0	70.5	43.5	56.8
100°	150.0	150.3	142.5	132.5	123.8	118.1	110.5	97.5	70.8	44.0	56.3
100.5°	148.8	149.2	141.8	131.4	122.6	116.9	109.4	97.1	71.1	44.6	55.9
101°	147.6	148.3	140.4	130.1	121.7	115.9	108.6	96.9	71.4	45.2	55.5
101.5°	144.9	145.9	138.7	129.1	121.3	115.2	108.0	96.7	71.8	45.9	55.2
102°	142.7	144.0	137.6	128.9	121.1	114.6	107.4	96.7	72.2	46.6	55.0
102.5°	141.7	143.2	137.6	129.0	120.9	114.1	106.8	96.5	72.8	47.3	55.0
103°	142.1	143.7	138.0	129.0	120.6	113.7	106.1	96.5	73.4	48.0	54.9
103.5°	141.9	143.8	137.9	128.9	120.3	113.2	105.6	96.5	74.0	48.7	55.0
104°	141.4	143.2	137.4	128.5	120.0	112.8	105.2	96.4	74.6	49.5	55.1
104.5°	140.5	142.5	137.0	128.2	119.7	112.4	104.6	96.4	75.3	50.2	55.3
105°	139.6	141.8	136.5	127.9	119.6	112.0	104.2	96.4	75.9	51.0	55.5
105.5°	138.8	141.1	136.1	127.6	119.4	111.7	103.8	96.3	76.5	51.7	55.8
106°	137.9	140.4	135.5	127.4	119.2	111.3	103.5	96.2	77.1	52.4	56.2
106.5°	137.3	139.7	135.0	127.2	119.0	110.9	103.1	96.1	77.6	53.1	56.5
107°	136.8	139.1	134.6	126.9	118.8	110.6	102.6	96.0	78.1	53.8	56.9
107.5°	136.2	138.5	134.0	126.4	118.5	110.2	102.2	95.9	78.6	54.4	57.3
108°	135.6	137.6	133.4	125.9	118.3	109.8	101.9	95.9	79.1	55.0	57.6
108.5°	134.7	136.7	132.7	125.4	117.9	109.4	101.6	96.0	79.8	55.6	58.0
109°	133.7	135.8	132.0	124.9	117.5	109.1	101.4	96.2	80.4	56.2	58.3
109.5°	132.6	134.7	131.1	124.4	117.2	108.8	101.2	96.4	81.0	56.8	58.7
110°	131.4	133.5	130.4	123.8	116.9	108.5	101.1	96.7	81.6	57.4	59.1
110.5°	130.2	132.4	129.6	123.2	116.6	108.2	100.9	96.9	82.2	58.1	59.4
111°	129.1	131.4	128.7	122.6	116.2	108.0	100.8	97.2	82.7	58.7	59.7
111.5°	128.0	130.3	127.9	122.1	115.8	107.8	100.7	97.5	83.3	59.2	60.0
112°	126.9	129.3	127.2	121.6	115.4	107.6	100.6	97.8	83.8	59.8	60.3

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	125.8	128.2	126.4	121.0	114.8	107.4	100.6	98.0	84.3	60.3	60.6
113°	124.8	127.3	125.6	120.3	114.4	107.3	100.6	98.3	84.8	60.8	60.9
113.5°	124.0	126.6	124.9	119.6	114.2	107.2	100.6	98.5	85.3	61.2	61.2
114°	123.2	125.9	124.1	119.0	113.9	107.1	100.6	98.7	85.7	61.6	61.5
114.5°	122.4	125.1	123.3	118.5	113.8	107.0	100.6	99.0	86.1	62.1	61.7
115°	121.7	124.3	122.5	118.1	113.5	106.8	100.6	99.2	86.4	62.4	61.9
115.5°	120.8	123.4	121.7	117.8	113.2	106.7	100.6	99.4	86.8	62.8	62.1
116°	120.0	122.5	121.1	117.5	113.1	106.6	100.6	99.6	87.1	63.1	62.2
116.5°	119.4	121.9	120.7	117.3	113.0	106.5	100.6	99.7	87.4	63.3	62.4
117°	118.9	121.4	120.4	117.1	112.8	106.4	100.6	99.7	87.7	63.5	62.5
117.5°	118.5	120.8	120.1	116.9	112.6	106.3	100.6	99.8	87.8	63.6	62.6
118°	118.3	120.5	119.8	116.8	112.4	106.2	100.6	99.8	87.9	63.6	62.6
118.5°	118.1	120.1	119.7	116.7	112.3	106.2	100.6	99.8	87.8	63.5	62.7
119°	118.0	119.9	119.5	116.6	112.1	106.1	100.6	99.8	87.7	63.3	62.8
119.5°	118.0	119.8	119.5	116.5	111.9	106.0	100.6	99.8	87.6	63.2	62.9
120°	118.1	119.8	119.6	116.4	111.8	106.0	100.7	99.7	87.5	63.0	63.1
120.5°	118.3	119.9	119.7	116.3	111.6	106.0	100.7	99.8	87.4	62.8	63.1
121°	118.5	119.9	119.7	116.2	111.5	106.1	100.8	99.8	87.2	62.6	63.2
121.5°	118.6	120.0	119.7	116.2	111.5	106.1	101.0	99.9	86.9	62.4	63.2
122°	118.7	120.1	119.8	116.1	111.5	106.2	101.1	99.9	86.6	62.0	63.1
122.5°	118.9	120.3	119.8	116.1	111.5	106.3	101.2	99.9	86.3	61.7	63.1
123°	119.1	120.4	119.9	116.1	111.5	106.5	101.4	99.9	85.9	61.2	63.0
123.5°	119.4	120.6	120.1	116.1	111.5	106.7	101.6	100.0	85.5	60.9	62.9
124°	119.6	120.8	120.2	116.0	111.5	106.9	101.8	100.0	85.2	60.5	62.9
124.5°	119.9	121.1	120.4	115.9	111.5	107.1	102.0	100.1	84.7	60.2	62.7
125°	120.1	121.3	120.6	115.8	111.6	107.4	102.3	100.2	84.2	59.9	62.6
125.5°	120.4	121.6	120.7	115.8	111.8	107.6	102.7	100.4	83.8	59.5	62.4
126°	120.7	121.9	120.8	115.6	111.9	107.9	103.1	100.6	83.5	59.1	62.3
126.5°	121.1	122.0	120.9	115.5	112.0	108.2	103.5	100.8	83.2	58.8	62.2
127°	121.1	122.2	121.0	115.5	112.2	108.5	103.9	101.0	82.9	58.6	62.2
127.5°	121.1	122.4	121.1	115.3	112.4	108.9	104.4	101.3	82.7	58.4	62.2
128°	121.2	122.5	121.3	115.3	112.6	109.2	104.8	101.6	82.5	58.3	62.3
128.5°	121.2	122.6	121.3	115.2	112.8	109.5	105.3	102.0	82.3	58.3	62.3
129°	121.2	122.7	121.3	115.1	113.0	109.8	106.0	102.3	82.2	58.3	62.5
129.5°	121.1	122.7	121.4	115.0	113.1	110.1	106.5	102.6	82.1	58.3	62.6
130°	121.1	122.7	121.5	114.9	113.2	110.3	107.0	103.0	82.1	58.4	62.8
130.5°	121.0	122.6	121.5	114.8	113.3	110.6	107.7	103.4	82.1	58.6	63.0
131°	120.8	122.6	121.5	114.7	113.4	110.8	108.2	103.8	82.1	58.8	63.2
131.5°	120.7	122.5	121.5	114.5	113.5	111.0	108.8	104.2	82.1	59.0	63.4
132°	120.6	122.4	121.4	114.3	113.5	111.2	109.4	104.5	82.2	59.2	63.6
132.5°	120.2	122.2	121.3	114.1	113.4	111.3	109.9	104.8	82.2	59.4	63.8
133°	119.8	121.9	121.0	113.8	113.2	111.5	110.4	105.2	82.3	59.7	63.9
133.5°	119.3	121.5	120.7	113.5	112.9	111.6	110.8	105.5	82.3	59.9	64.1
134°	118.6	121.1	120.4	113.1	112.5	111.6	111.2	105.7	82.3	60.1	64.2
134.5°	117.9	120.7	120.0	112.7	112.1	111.5	111.4	105.9	82.3	60.3	64.3

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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	117.1	120.2	119.6	112.3	111.6	111.5	111.6	106.1	82.3	60.5	64.4
135.5°	116.2	119.6	119.1	112.0	111.1	111.5	111.7	106.2	82.2	60.6	64.5
136°	115.4	119.0	118.6	111.6	110.4	111.3	111.8	106.2	82.1	60.8	64.5
136.5°	114.4	118.3	117.9	111.3	109.8	111.1	111.7	106.2	82.0	60.9	64.5
137°	113.3	117.5	117.3	110.7	109.1	110.9	111.6	106.1	81.8	61.0	64.5
137.5°	112.2	116.5	116.5	110.2	108.3	110.5	111.4	106.0	81.6	61.2	64.5
138°	111.0	115.5	115.9	109.6	107.5	110.1	111.2	105.7	81.4	61.3	64.4
138.5°	109.8	114.6	115.1	108.2	106.6	109.5	110.7	105.3	81.1	61.3	64.2
139°	108.6	113.6	114.2	107.5	105.8	108.9	110.2	104.9	80.7	61.3	64.0
139.5°	107.7	112.6	113.2	107.0	104.9	108.2	109.7	104.4	80.3	61.3	63.7
140°	106.6	111.6	112.1	106.4	104.1	107.4	109.0	103.8	79.8	61.2	63.4
140.5°	105.6	110.3	110.6	105.8	103.3	106.6	108.2	103.0	79.2	61.0	63.1
141°	104.3	108.9	108.8	105.3	102.5	105.6	107.2	102.3	78.6	60.8	62.6
141.5°	102.9	107.5	107.8	104.7	101.7	104.5	106.2	101.3	77.9	60.6	62.0
142°	101.4	105.6	106.8	104.0	100.8	103.4	105.2	100.2	77.1	60.2	61.4
142.5°	98.2	104.1	105.9	103.2	99.9	102.2	104.0	99.1	76.2	59.8	60.8
143°	97.2	103.1	104.8	102.4	99.0	100.9	102.7	97.8	75.2	59.4	60.1
143.5°	96.6	102.0	103.8	101.5	98.2	99.6	101.3	96.5	74.2	58.9	59.3
144°	95.8	100.9	102.8	100.7	97.3	98.2	99.9	95.0	73.2	58.2	58.6
144.5°	95.0	99.8	101.8	99.7	96.4	96.8	98.4	93.5	72.0	57.6	57.7
145°	94.3	98.6	100.7	98.7	95.4	95.4	96.8	91.8	70.8	56.9	56.8
145.5°	93.4	97.5	99.5	97.6	94.5	93.9	95.2	90.1	69.5	56.1	55.8
146°	92.5	96.3	98.3	96.5	93.3	92.4	93.5	88.3	68.1	55.3	54.8
146.5°	91.6	95.1	97.1	95.2	92.2	90.9	91.7	86.4	66.7	54.4	53.7
147°	90.6	93.8	96.0	93.9	90.9	89.4	89.9	84.4	65.2	53.4	52.6
147.5°	89.6	92.5	94.7	92.6	89.7	87.9	88.1	82.4	63.7	52.5	51.4
148°	88.7	91.2	93.3	91.2	88.3	86.4	86.2	80.3	62.1	51.4	50.3
148.5°	87.7	89.8	91.9	89.8	86.8	84.9	84.3	78.1	60.5	50.3	49.1
149°	86.5	88.4	90.5	88.3	85.5	83.3	82.2	75.9	58.8	49.1	47.8
149.5°	85.4	86.9	89.1	86.7	83.9	81.7	80.2	73.7	57.1	48.0	46.5
150°	84.3	85.4	87.6	85.1	82.4	80.0	78.0	71.6	55.3	46.8	45.2
150.5°	83.2	83.9	86.1	83.4	80.7	78.2	75.9	69.4	53.6	45.5	43.9
151°	81.9	82.5	84.5	81.9	79.1	76.6	73.8	67.3	51.9	44.2	42.6
151.5°	80.6	80.8	82.6	80.2	77.4	75.6	71.7	65.1	50.1	43.0	41.3
152°	79.2	79.2	80.8	78.5	75.8	73.8	69.6	62.7	48.3	41.6	39.9
152.5°	77.8	77.5	79.0	76.8	74.1	72.0	67.5	60.3	46.5	40.3	38.6
153°	76.3	75.8	77.1	74.6	72.4	70.1	65.4	58.0	44.7	38.9	37.2
153.5°	75.7	74.3	75.5	73.1	70.7	68.3	63.0	55.6	43.0	37.6	35.9
154°	74.2	72.8	73.8	71.7	69.1	66.4	60.5	53.2	41.3	36.3	34.6
154.5°	72.8	71.3	72.1	70.2	67.4	64.4	58.1	50.9	39.5	34.9	33.3
155°	71.3	69.9	70.4	68.8	65.5	62.4	55.7	48.7	37.8	33.6	31.9
155.5°	69.8	68.4	68.7	67.0	63.5	60.1	53.2	46.4	36.2	32.3	30.7
156°	68.3	66.7	67.0	65.0	61.7	57.5	50.8	44.2	34.6	31.0	29.4
156.5°	66.7	65.0	65.1	63.0	59.8	54.9	48.4	42.0	33.0	29.7	28.1
157°	65.2	63.4	63.2	61.1	57.9	52.5	46.0	39.8	31.4	28.4	26.9



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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	63.6	61.7	61.2	59.1	55.9	49.9	43.6	37.8	29.9	27.1	25.7
158°	61.9	60.0	59.3	57.2	54.0	47.4	41.2	35.7	28.4	25.9	24.5
158.5°	60.2	58.2	57.2	55.3	52.0	44.8	38.8	33.7	26.9	24.7	23.4
159°	58.4	56.3	55.4	53.3	49.5	42.2	36.4	31.7	25.4	23.5	22.2
159.5°	56.5	54.5	53.4	51.4	46.5	39.7	34.1	29.8	24.0	22.3	21.1
160°	54.8	52.8	51.6	49.4	43.7	37.2	32.0	28.0	22.7	21.2	20.0
160.5°	53.0	51.1	49.7	47.4	40.9	34.8	30.1	26.3	21.4	20.1	18.9
161°	51.2	49.3	47.9	45.1	38.1	32.3	28.1	24.5	20.1	18.9	17.9
161.5°	49.5	47.6	46.0	42.0	35.2	29.9	26.2	22.8	18.8	17.8	16.8
162°	47.7	45.9	44.1	38.9	32.6	27.5	24.3	21.2	17.5	16.7	15.8
162.5°	45.8	44.0	41.4	35.8	29.8	25.0	22.6	19.6	16.4	15.7	14.8
163°	43.9	42.0	38.2	32.9	27.3	22.6	20.9	18.2	15.2	14.7	13.9
163.5°	40.6	38.5	34.9	30.0	24.8	20.1	19.2	16.7	14.1	13.7	13.0
164°	37.1	35.2	31.8	27.5	22.5	18.4	17.6	15.4	13.1	12.8	12.1
164.5°	33.6	32.0	28.8	24.9	20.1	16.8	16.1	14.1	12.1	11.9	11.3
165°	30.2	28.8	25.9	22.5	17.7	15.5	14.7	13.0	11.1	11.1	10.6
165.5°	27.0	25.8	23.2	20.2	15.2	14.1	13.4	11.8	10.3	10.3	9.8
166°	24.0	23.1	20.9	17.8	12.9	12.8	12.1	10.8	9.4	9.5	9.1
166.5°	21.3	20.5	18.4	15.5	11.9	11.6	11.0	9.8	8.7	8.8	8.5
167°	18.8	18.1	16.0	13.1	11.1	10.5	9.9	8.9	8.0	8.1	7.8
167.5°	16.2	15.6	13.5	10.5	10.3	9.5	8.9	8.0	7.3	7.5	7.3
168°	13.5	13.1	10.9	9.7	9.6	8.8	7.9	7.3	6.6	6.9	6.7
168.5°	10.6	10.2	8.7	9.0	9.0	8.2	7.4	6.5	6.0	6.2	6.1
169°	8.1	8.2	8.1	8.4	8.4	7.7	6.9	5.8	5.3	5.6	5.6
169.5°	7.7	7.7	7.7	7.8	7.8	7.3	6.4	5.1	4.8	5.1	5.1
170°	7.3	7.3	7.3	7.4	7.3	6.8	5.9	4.9	4.6	4.8	5.0
170.5°	7.0	6.9	6.9	7.0	6.9	6.3	5.6	4.8	4.6	4.8	5.1
171°	6.6	6.5	6.4	6.6	6.5	6.0	5.4	4.7	4.6	4.8	5.1
171.5°	6.3	6.3	6.2	6.2	6.0	5.7	5.2	4.7	4.7	4.9	5.2
172°	6.0	6.0	6.0	5.9	5.7	5.5	5.1	4.7	4.8	5.0	5.2
172.5°	5.8	5.8	5.8	5.6	5.5	5.3	5.0	4.7	4.9	5.1	5.4
173°	5.6	5.6	5.6	5.4	5.3	5.2	4.9	4.7	5.0	5.2	5.5
173.5°	5.4	5.4	5.4	5.2	5.2	5.1	4.9	4.8	5.1	5.3	5.6
174°	5.2	5.2	5.2	5.0	5.0	4.9	4.8	4.9	5.1	5.4	5.6
174.5°	5.1	5.1	4.9	4.8	4.8	4.8	4.8	4.9	5.1	5.4	5.6
175°	4.9	4.9	4.7	4.7	4.7	4.7	4.7	4.9	5.1	5.4	5.6
175.5°	4.8	4.7	4.6	4.6	4.6	4.6	4.7	4.9	5.2	5.4	5.7
176°	4.6	4.6	4.5	4.5	4.5	4.6	4.7	5.0	5.2	5.4	5.7
176.5°	4.6	4.5	4.5	4.4	4.4	4.6	4.8	5.0	5.2	5.4	5.7
177°	4.5	4.5	4.4	4.4	4.4	4.6	4.8	5.0	5.2	5.4	5.7
177.5°	4.5	4.5	4.5	4.4	4.4	4.6	4.7	4.9	5.1	5.4	5.6
178°	4.6	4.6	4.5	4.4	4.4	4.6	4.7	4.9	5.1	5.3	5.6
178.5°	4.6	4.6	4.5	4.4	4.5	4.6	4.7	4.9	5.1	5.3	5.5
179°	4.7	4.7	4.6	4.5	4.5	4.6	4.7	4.9	5.1	5.3	5.5
179.5°	4.8	4.7	4.6	4.6	4.6	4.6	4.8	4.9	5.1	5.2	5.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8

REPORT NUMBER: P973048

CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2
0.5°	4635.1	4623.8	4615.8	4613.3	4615.7	4614.1	4614.2	4583.2	4582.0	4584.8	4590.5
1°	4618.7	4609.2	4614.7	4623.1	4635.9	4645.0	4648.4	4577.0	4575.1	4574.0	4572.3
1.5°	4597.0	4604.9	4633.7	4666.6	4696.4	4713.2	4714.9	4636.4	4630.5	4622.4	4613.3
2°	4594.1	4626.1	4672.0	4716.9	4749.8	4767.5	4776.9	4705.6	4696.8	4687.1	4672.9
2.5°	4592.9	4655.0	4717.3	4757.9	4781.9	4784.8	4784.7	4739.5	4731.5	4729.2	4721.8
3°	4603.3	4681.0	4740.1	4770.4	4764.9	4738.9	4722.8	4712.7	4713.4	4727.2	4733.4
3.5°	4612.4	4702.4	4747.7	4736.3	4690.0	4645.1	4627.1	4617.0	4625.5	4649.3	4701.6
4°	4627.3	4709.0	4725.2	4658.9	4594.1	4572.9	4575.3	4541.8	4540.3	4560.9	4613.0
4.5°	4634.9	4704.6	4675.0	4574.7	4547.3	4553.5	4572.2	4523.5	4517.1	4520.7	4541.2
5°	4640.4	4683.6	4592.6	4521.1	4535.3	4566.1	4582.7	4543.3	4528.9	4516.3	4510.5
5.5°	4634.6	4646.0	4521.0	4500.5	4538.9	4550.7	4540.3	4523.7	4522.9	4522.9	4515.7
6°	4624.6	4588.7	4480.2	4496.2	4513.2	4466.6	4413.9	4427.2	4438.3	4487.4	4520.2
6.5°	4614.2	4523.8	4455.1	4481.3	4433.6	4319.5	4244.2	4268.0	4292.6	4381.0	4476.3
7°	4597.4	4466.7	4443.8	4432.7	4297.7	4154.2	4098.2	4109.6	4132.3	4224.8	4379.8
7.5°	4569.6	4425.0	4421.0	4337.2	4141.6	4035.4	4030.8	4013.3	4012.7	4073.8	4233.6
8°	4529.7	4393.9	4386.0	4215.8	4023.6	3993.7	4020.0	3996.3	3985.5	3983.8	4086.3
8.5°	4494.4	4360.4	4320.4	4081.4	3955.0	3979.8	3981.6	3978.8	3980.6	3965.1	3986.1
9°	4444.2	4333.9	4238.5	3972.5	3933.3	3930.1	3870.2	3883.5	3909.5	3951.1	3961.0
9.5°	4403.4	4305.1	4134.2	3905.3	3906.2	3810.4	3695.9	3730.3	3767.3	3882.3	3957.1
10°	4364.6	4268.8	4026.8	3867.7	3822.5	3641.3	3519.7	3537.7	3582.8	3731.2	3923.7
10.5°	4327.3	4226.8	3933.7	3841.1	3691.3	3474.7	3400.2	3402.6	3421.5	3548.0	3833.9
11°	4301.6	4172.4	3854.6	3789.7	3541.8	3361.1	3337.3	3331.7	3334.2	3393.9	3665.1
11.5°	4275.2	4110.8	3795.0	3696.2	3398.8	3294.9	3262.7	3271.1	3280.3	3314.3	3491.7
12°	4251.8	4045.4	3760.8	3580.4	3294.7	3225.6	3143.1	3160.9	3197.6	3267.3	3364.7
12.5°	4228.8	3971.8	3727.1	3459.9	3234.8	3113.9	2983.2	3003.6	3061.0	3197.8	3298.0
13°	4208.7	3903.7	3680.9	3331.6	3157.9	2962.6	2816.6	2825.5	2885.2	3072.3	3257.2
13.5°	4181.6	3843.8	3619.4	3235.8	3056.9	2803.6	2685.2	2683.3	2727.2	2906.8	3194.8
14°	4148.5	3789.1	3541.0	3167.5	2931.6	2670.6	2578.9	2578.0	2607.1	2739.7	3081.3
14.5°	4114.5	3739.4	3446.8	3093.3	2785.9	2559.1	2470.9	2480.7	2512.8	2615.7	2925.1
15°	4071.9	3697.9	3355.5	3012.0	2653.9	2459.0	2354.1	2359.4	2408.7	2522.4	2757.1
15.5°	4024.9	3658.6	3261.4	2917.2	2543.5	2349.2	2214.8	2213.2	2284.3	2431.5	2622.5
16°	3980.2	3619.9	3176.9	2803.0	2446.0	2223.8	2057.2	2057.4	2130.8	2320.7	2523.9
16.5°	3932.7	3575.4	3110.8	2683.0	2345.0	2080.1	1899.9	1901.4	1967.8	2188.7	2448.4
17°	3888.0	3519.8	3043.5	2578.2	2240.0	1935.4	1768.7	1765.1	1815.2	2022.2	2354.3
17.5°	3845.2	3461.8	2971.5	2473.5	2118.9	1793.3	1661.0	1698.7	1742.0	1865.5	2236.2
18°	3799.7	3401.3	2902.3	2374.4	1978.2	1675.3	1583.7	1632.3	1668.8	1733.7	2096.2
18.5°	3756.0	3328.4	2822.6	2283.2	1850.8	1587.8	1524.4	1565.9	1595.7	1663.1	1948.4
19°	3711.4	3262.3	2731.3	2189.8	1728.7	1520.2	1474.8	1499.5	1522.5	1592.5	1803.1
19.5°	3660.5	3189.8	2637.3	2084.6	1620.8	1464.9	1429.2	1433.2	1450.1	1521.9	1727.8
20°	3611.9	3112.2	2539.2	1980.1	1540.5	1419.9	1384.8	1388.5	1403.2	1451.9	1652.6
20.5°	3566.2	3034.7	2432.1	1861.8	1472.9	1373.3	1336.7	1343.2	1358.2	1407.9	1577.4
21°	3513.4	2970.2	2341.1	1748.3	1420.2	1329.6	1290.9	1295.9	1312.1	1364.3	1502.1
21.5°	3465.9	2901.5	2253.2	1650.6	1375.2	1286.1	1244.6	1248.5	1265.7	1318.6	1428.3
22°	3424.1	2843.2	2167.3	1557.0	1332.0	1240.3	1195.2	1200.6	1218.5	1274.7	1385.6



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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	3378.7	2794.0	2094.6	1483.3	1289.9	1195.1	1148.4	1154.3	1171.8	1231.5	1344.3
23°	3342.8	2745.5	2017.0	1425.6	1249.5	1150.9	1103.9	1107.7	1127.2	1186.7	1304.0
23.5°	3306.0	2689.0	1923.6	1373.1	1207.2	1104.3	1057.6	1064.2	1084.2	1144.3	1264.3
24°	3271.6	2631.5	1837.2	1330.6	1164.4	1061.7	1013.4	1019.3	1038.6	1101.1	1224.5
24.5°	3234.5	2563.9	1748.5	1292.0	1125.4	1021.6	972.2	976.8	996.8	1059.1	1185.5
25°	3197.8	2483.8	1654.8	1252.9	1083.1	978.4	928.3	934.3	955.3	1019.3	1146.0
25.5°	3160.3	2406.4	1576.1	1215.1	1041.3	935.9	885.9	891.6	912.6	979.0	1106.6
26°	3121.9	2321.0	1509.1	1181.1	1004.8	898.1	847.4	850.9	872.3	939.5	1068.5
26.5°	3083.5	2242.0	1442.5	1145.0	966.2	858.7	806.5	812.2	833.4	900.4	1032.3
27°	3037.7	2174.1	1392.4	1108.5	927.2	819.9	767.9	772.0	792.0	861.9	994.3
27.5°	2990.4	2108.7	1347.0	1074.1	891.5	782.1	743.4	733.2	753.5	823.1	957.4
28°	2941.0	2049.3	1305.6	1039.8	855.3	748.1	705.6	697.2	717.4	786.9	920.5
28.5°	2891.1	1995.1	1269.2	1004.3	818.1	714.5	667.1	661.6	680.6	750.3	885.1
29°	2845.7	1942.1	1238.1	972.1	785.3	680.9	628.6	626.6	644.6	715.2	849.6
29.5°	2804.9	1889.6	1204.3	938.8	752.1	647.4	590.1	594.9	611.7	682.7	815.3
30°	2762.2	1837.8	1174.4	905.0	720.9	613.8	559.3	564.5	580.0	650.5	781.5
30.5°	2728.3	1780.7	1145.3	874.8	689.7	580.2	531.9	536.2	550.7	618.5	748.8
31°	2699.0	1724.4	1112.8	843.4	658.5	550.5	504.4	509.4	523.1	589.5	717.0
31.5°	2670.5	1675.8	1083.5	811.2	627.3	522.2	478.7	484.3	496.0	561.8	687.5
32°	2651.2	1623.9	1055.3	783.2	596.1	497.7	456.6	461.3	471.5	535.1	659.2
32.5°	2629.3	1577.5	1026.0	753.6	568.9	472.6	434.2	440.2	448.6	509.7	631.5
33°	2606.3	1539.4	1000.9	727.0	542.6	449.0	413.5	420.2	427.0	486.2	605.0
33.5°	2583.9	1501.1	977.1	700.4	518.9	428.0	395.2	401.9	407.4	463.5	579.8
34°	2559.1	1469.2	949.8	673.7	496.0	407.9	378.1	384.7	388.3	441.5	555.6
34.5°	2529.8	1443.0	925.3	647.1	473.4	388.1	362.0	368.6	370.7	420.9	532.6
35°	2503.3	1419.3	902.7	620.5	453.1	371.2	348.2	354.0	355.1	402.0	510.4
35.5°	2473.9	1398.3	878.5	596.4	433.9	355.1	334.8	340.4	340.7	383.8	487.3
36°	2442.4	1382.3	856.9	572.4	414.3	339.7	322.1	327.9	327.0	367.2	466.2
36.5°	2414.1	1364.9	836.4	551.6	396.5	325.8	310.8	316.3	315.2	351.5	446.4
37°	2384.9	1348.9	813.6	530.3	380.0	312.9	299.8	304.9	303.8	337.2	426.6
37.5°	2358.3	1335.2	793.8	510.2	363.1	301.0	289.0	294.3	293.1	323.9	407.6
38°	2333.7	1318.7	775.0	491.9	348.2	290.2	279.1	284.2	283.1	311.6	389.9
38.5°	2311.5	1303.5	754.4	474.5	334.0	280.0	269.7	274.3	273.3	300.1	373.2
39°	2291.3	1290.3	736.9	457.2	320.1	270.4	260.5	265.5	264.3	290.1	358.2
39.5°	2273.5	1275.3	719.5	441.8	307.4	261.4	252.1	256.6	255.6	279.5	342.9
40°	2253.4	1259.9	702.2	426.1	295.6	252.8	243.9	248.7	247.7	269.8	329.2
40.5°	2232.9	1247.7	684.8	411.2	284.1	244.4	235.7	241.0	239.8	260.8	316.6
41°	2215.9	1232.6	667.4	398.4	274.0	236.8	228.8	233.9	232.5	251.9	304.5
41.5°	2197.9	1217.5	650.2	385.5	264.6	229.5	222.1	226.9	225.8	243.6	293.3
42°	2179.0	1204.3	634.9	372.1	254.7	222.3	215.4	220.3	219.3	236.1	283.2
42.5°	2163.7	1189.7	620.9	361.0	246.1	215.8	209.2	214.0	212.9	228.8	273.4
43°	2146.6	1176.7	605.4	350.0	238.4	209.5	203.0	207.9	206.7	221.9	264.0
43.5°	2128.1	1163.8	590.6	338.6	230.2	203.2	196.9	201.9	200.6	215.2	255.2
44°	2112.6	1150.1	577.2	328.2	222.9	197.3	191.2	196.1	194.8	208.7	247.0
44.5°	2097.8	1137.1	562.7	318.9	216.2	191.6	186.0	190.6	189.1	202.8	238.9

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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	2081.5	1123.8	549.2	309.3	209.4	186.1	180.5	185.6	183.6	196.7	231.4
45.5°	2067.3	1109.9	536.9	300.5	203.3	180.8	175.6	180.6	178.4	190.7	224.1
46°	2054.1	1098.2	523.1	291.4	197.6	175.8	170.8	175.8	174.0	185.2	217.3
46.5°	2038.6	1088.1	511.2	283.0	191.8	171.0	166.0	171.5	169.7	179.5	210.7
47°	2025.4	1076.1	500.2	275.1	186.3	166.1	161.4	167.2	165.3	175.0	204.5
47.5°	2011.4	1066.1	488.7	267.4	181.2	161.4	156.9	162.8	160.9	170.4	198.6
48°	1994.9	1057.0	478.9	259.6	176.2	156.8	152.5	158.5	156.5	165.8	193.0
48.5°	1979.9	1045.4	468.9	252.9	171.3	152.5	148.3	153.9	152.2	161.2	187.1
49°	1960.8	1033.1	458.5	246.2	166.6	148.1	143.9	149.6	148.1	156.6	181.8
49.5°	1939.5	1022.8	449.4	239.7	161.9	143.9	139.4	145.3	143.9	152.3	176.7
50°	1922.0	1009.4	440.8	233.9	157.4	139.8	135.2	141.0	139.8	148.1	172.1
50.5°	1904.3	993.3	431.4	228.3	153.1	136.0	131.2	136.8	135.7	144.0	167.4
51°	1883.4	977.6	422.9	222.6	148.6	132.0	127.2	132.7	131.7	140.0	162.8
51.5°	1867.4	961.5	415.5	217.7	144.4	128.1	123.3	128.7	127.9	136.0	158.2
52°	1849.0	944.7	407.2	212.6	140.4	124.6	119.7	125.0	124.3	132.1	153.7
52.5°	1828.6	930.9	400.5	207.6	136.3	120.9	116.3	121.1	120.6	128.1	149.4
53°	1810.5	916.4	393.7	202.8	132.3	117.2	112.9	117.5	117.1	124.2	145.3
53.5°	1787.4	900.0	385.9	198.3	128.7	113.9	109.8	114.0	113.6	120.4	141.3
54°	1763.2	884.1	379.1	193.5	124.9	110.4	106.5	110.7	110.2	116.6	137.5
54.5°	1739.8	867.9	372.7	189.0	121.2	107.0	103.3	107.5	107.1	113.0	133.8
55°	1718.6	853.4	365.7	184.6	117.8	103.9	100.2	104.2	103.8	109.6	130.3
55.5°	1698.3	839.0	359.6	180.3	114.4	100.7	97.2	101.1	100.6	105.9	126.7
56°	1679.6	823.2	353.7	176.0	111.0	97.5	94.2	98.1	97.5	102.3	123.2
56.5°	1661.6	807.9	347.4	171.7	107.7	94.3	91.5	95.2	94.4	98.9	119.7
57°	1644.0	793.3	340.7	167.2	104.4	91.2	88.8	92.5	91.5	95.4	116.1
57.5°	1630.0	780.4	334.5	163.4	101.1	88.2	86.1	89.8	88.8	92.0	112.5
58°	1612.8	766.9	326.9	159.3	97.9	85.4	83.2	86.9	86.0	88.7	108.9
58.5°	1596.1	755.4	319.7	155.1	94.5	82.4	80.1	83.8	83.0	85.6	105.5
59°	1581.0	744.2	313.0	150.9	91.1	79.6	76.7	80.6	79.9	82.7	101.9
59.5°	1566.0	731.1	305.9	147.0	87.8	76.6	73.0	77.3	76.7	79.7	98.2
60°	1553.4	718.1	298.9	142.8	84.6	73.1	69.3	73.2	73.1	76.4	94.7
60.5°	1542.2	705.1	291.6	138.7	81.5	69.5	65.6	68.4	68.8	73.1	91.2
61°	1524.9	692.1	283.9	134.8	78.7	66.0	61.8	63.8	64.1	69.6	87.9
61.5°	1500.4	680.7	276.9	130.6	75.3	62.5	58.1	60.4	60.0	65.7	84.8
62°	1479.1	667.8	271.0	126.6	72.2	58.9	53.8	55.9	56.4	61.5	81.6
62.5°	1459.5	653.9	264.8	122.6	69.2	55.3	47.7	46.6	51.3	57.3	78.2
63°	1441.0	639.0	258.6	118.5	66.2	51.3	36.1	37.3	41.1	53.5	74.5
63.5°	1419.8	622.6	251.9	114.7	63.2	45.8	23.4	28.0	30.8	47.2	70.8
64°	1395.9	605.4	244.1	110.8	59.8	36.2	10.5	18.7	20.5	37.7	67.0
64.5°	1370.3	588.9	236.6	106.9	56.3	24.1	8.2	9.4	10.2	28.3	63.2
65°	1339.4	570.3	228.6	103.1	52.6	12.2	6.2	0.2	0.4	18.8	58.9
65.5°	1311.0	552.8	220.1	99.2	47.1	3.1	4.3	0.2	0.2	9.4	53.0
66°	1280.1	535.8	213.0	95.1	38.1	2.2	2.3	0.2	0.2	0.3	43.8
66.5°	1249.2	515.8	207.0	91.3	28.2	1.6	0.3	0.2	0.2	0.2	33.3
67°	1219.3	499.3	201.0	87.6	19.6	0.9	0.2	0.2	0.2	0.2	23.9



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	1183.6	483.4	194.4	83.3	15.0	0.2	0.2	0.2	0.2	0.2	20.2
68°	1147.1	465.2	187.3	77.8	14.0	0.2	0.2	0.2	0.2	0.2	19.6
68.5°	1115.1	449.5	179.7	72.6	13.6	0.2	0.2	0.2	0.2	0.2	19.2
69°	1080.5	434.4	172.7	67.5	13.2	0.2	0.2	0.2	0.2	0.2	18.8
69.5°	1044.7	418.4	165.8	62.4	13.0	0.2	0.2	0.2	0.2	0.2	18.5
70°	1008.3	403.6	158.0	57.2	12.7	0.2	0.2	0.2	0.2	0.2	18.3
70.5°	972.7	389.1	150.9	52.1	12.5	0.2	0.2	0.2	0.2	0.2	17.9
71°	934.9	373.6	143.2	50.7	12.3	0.2	0.2	0.2	0.2	0.2	17.7
71.5°	894.8	357.5	133.6	49.6	12.2	0.2	0.2	0.2	0.2	0.2	17.5
72°	857.3	341.7	124.5	48.4	12.0	0.2	0.2	0.2	0.2	0.2	17.2
72.5°	819.1	324.2	117.0	47.3	11.9	0.2	0.2	0.2	0.2	0.2	16.9
73°	783.2	306.6	111.5	46.3	11.7	0.2	0.2	0.3	0.3	0.3	16.7
73.5°	747.7	292.4	107.3	45.3	11.6	0.2	0.2	0.3	0.3	0.3	16.5
74°	718.6	279.3	103.7	44.4	11.4	0.2	0.2	0.3	0.3	0.3	16.2
74.5°	689.5	267.5	99.8	43.4	11.3	0.2	0.2	0.3	0.3	0.3	15.9
75°	660.4	258.4	96.3	42.4	11.2	0.3	0.2	0.3	0.3	0.3	15.6
75.5°	631.3	249.8	93.0	41.5	11.0	0.3	0.2	0.3	0.3	0.3	15.3
76°	602.2	240.4	89.6	40.5	10.8	0.3	0.3	0.3	0.3	0.3	15.1
76.5°	576.5	231.3	86.6	39.5	10.7	0.3	0.3	0.3	0.3	0.3	14.8
77°	552.8	223.6	83.8	38.5	10.5	0.3	0.3	0.3	0.3	0.4	14.5
77.5°	528.9	214.5	80.8	37.4	10.3	0.3	0.3	0.3	0.4	0.4	14.2
78°	504.7	205.4	78.1	36.3	10.1	0.3	0.3	0.4	0.4	0.4	13.9
78.5°	480.0	195.6	75.0	35.3	9.9	0.3	0.3	0.4	0.4	0.4	13.6
79°	455.2	187.1	72.9	34.3	9.7	0.3	0.3	0.4	0.4	0.4	13.3
79.5°	430.6	179.0	70.8	33.2	9.5	0.3	0.3	0.4	0.4	0.4	13.0
80°	408.7	172.0	68.6	32.1	9.2	0.3	0.3	0.4	0.4	0.4	12.7
80.5°	386.2	164.6	66.5	31.0	9.0	0.3	0.3	0.4	0.4	0.4	12.4
81°	363.9	157.4	64.1	29.9	8.8	0.3	0.3	0.4	0.4	0.4	12.1
81.5°	341.9	150.0	61.7	28.8	8.6	0.3	0.3	0.5	0.5	0.5	11.9
82°	319.8	141.5	58.9	27.7	8.4	0.3	0.3	0.5	0.5	0.5	11.6
82.5°	299.3	132.4	56.2	26.6	8.2	0.3	0.3	0.5	0.5	0.5	11.3
83°	279.2	123.4	53.5	25.5	7.9	0.4	0.3	0.5	0.5	0.5	11.0
83.5°	258.3	115.6	50.7	24.5	7.7	0.4	0.4	0.5	0.5	0.6	10.8
84°	236.3	107.8	48.0	23.5	7.5	0.4	0.4	0.6	0.6	0.6	10.5
84.5°	216.5	99.9	45.4	22.5	7.3	0.4	0.4	0.6	0.6	0.6	10.2
85°	198.9	92.6	42.8	21.5	7.1	0.4	0.4	0.6	0.6	0.6	10.0
85.5°	182.5	86.0	40.5	20.6	6.9	0.4	0.4	0.6	0.6	0.7	9.7
86°	166.6	79.6	38.4	19.7	6.8	0.5	0.5	0.7	0.7	0.7	9.4
86.5°	151.2	73.8	36.3	18.9	6.6	0.5	0.5	0.7	0.7	0.7	9.2
87°	137.4	69.1	34.5	18.2	6.4	0.5	0.5	0.7	0.7	0.7	8.9
87.5°	125.1	64.4	32.7	17.5	6.3	0.5	0.5	0.8	0.8	0.8	8.7
88°	113.5	59.7	31.0	16.8	6.1	0.5	0.5	0.8	0.8	0.8	8.5
88.5°	103.5	55.1	29.5	16.2	6.0	0.6	0.6	0.8	0.8	0.8	8.2
89°	94.3	51.5	28.2	15.6	5.8	0.6	0.6	0.9	0.9	0.9	8.0
89.5°	86.7	48.2	27.0	15.0	5.6	0.6	0.6	0.9	0.9	0.9	7.7

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	80.1	45.3	25.9	14.4	5.4	0.7	0.7	0.9	0.9	1.0	7.5
90.5°	73.8	42.8	24.8	13.9	5.3	0.7	0.7	1.0	1.0	1.0	7.3
91°	70.1	40.7	23.8	13.3	5.1	0.7	0.7	1.0	1.0	1.0	7.1
91.5°	66.5	39.0	22.9	12.9	5.0	0.7	0.7	1.0	1.0	1.1	6.9
92°	63.0	37.4	22.0	12.6	4.9	0.8	0.8	1.1	1.1	1.1	6.8
92.5°	59.4	36.1	21.4	12.2	4.8	0.8	0.8	1.1	1.1	1.1	6.6
93°	57.2	35.0	20.9	11.9	4.6	0.8	0.8	1.2	1.2	1.2	6.4
93.5°	55.3	34.3	20.5	11.6	4.5	0.8	0.8	1.2	1.2	1.2	6.2
94°	53.7	33.8	20.0	11.3	4.4	0.9	0.9	1.2	1.2	1.2	6.1
94.5°	52.6	33.4	19.7	11.1	4.3	0.9	0.9	1.3	1.3	1.3	6.0
95°	51.9	33.0	19.2	10.8	4.2	0.9	0.9	1.3	1.3	1.3	5.9
95.5°	51.3	32.6	18.8	10.6	4.1	1.0	1.0	1.4	1.4	1.4	5.8
96°	50.7	32.2	18.5	10.5	4.0	1.0	1.0	1.4	1.4	1.4	5.7
96.5°	50.2	31.9	18.2	10.3	3.9	1.0	1.0	1.4	1.4	1.4	5.6
97°	49.7	31.5	17.9	10.1	3.9	1.0	1.1	1.5	1.5	1.5	5.5
97.5°	49.1	31.1	17.6	10.0	3.8	1.1	1.1	1.5	1.5	1.5	5.4
98°	48.3	30.7	17.4	9.8	3.7	1.1	1.1	1.6	1.6	1.6	5.3
98.5°	47.6	30.3	17.1	9.6	3.7	1.1	1.2	1.6	1.6	1.6	5.3
99°	46.9	29.9	16.8	9.5	3.6	1.2	1.2	1.7	1.7	1.6	5.2
99.5°	46.1	29.4	16.5	9.4	3.5	1.2	1.2	1.7	1.7	1.7	5.1
100°	45.4	28.9	16.3	9.3	3.5	1.2	1.3	1.7	1.7	1.7	5.0
100.5°	44.7	28.4	16.1	9.2	3.5	1.3	1.3	1.8	1.8	1.8	4.9
101°	44.0	27.8	15.9	9.1	3.5	1.3	1.3	1.8	1.8	1.8	4.8
101.5°	43.4	27.4	15.7	9.0	3.4	1.3	1.4	1.9	1.9	1.9	4.8
102°	42.8	26.9	15.6	8.9	3.4	1.4	1.4	1.9	1.9	1.9	4.7
102.5°	42.2	26.5	15.5	8.8	3.3	1.4	1.4	2.0	2.0	1.9	4.6
103°	41.7	26.2	15.3	8.7	3.3	1.4	1.5	2.0	2.0	2.0	4.5
103.5°	41.3	25.8	15.2	8.6	3.3	1.5	1.5	2.1	2.1	2.0	4.4
104°	41.0	25.6	15.0	8.5	3.3	1.5	1.6	2.1	2.1	2.1	4.3
104.5°	40.7	25.3	14.9	8.5	3.3	1.6	1.6	2.2	2.2	2.2	4.3
105°	40.6	25.1	14.8	8.4	3.2	1.6	1.6	2.2	2.2	2.2	4.3
105.5°	40.4	24.9	14.6	8.3	3.2	1.6	1.7	2.3	2.3	2.3	4.2
106°	40.3	24.8	14.5	8.2	3.2	1.7	1.7	2.4	2.4	2.3	4.2
106.5°	40.2	24.8	14.3	8.1	3.2	1.7	1.8	2.4	2.4	2.4	4.2
107°	40.2	24.7	14.2	8.0	3.1	1.8	1.8	2.5	2.5	2.4	4.2
107.5°	40.2	24.7	14.1	7.8	3.1	1.8	1.9	2.5	2.5	2.5	4.2
108°	40.3	24.7	13.9	7.7	3.1	1.9	1.9	2.6	2.6	2.5	4.2
108.5°	40.3	24.7	13.9	7.6	3.1	1.9	1.9	2.6	2.6	2.6	4.2
109°	40.3	24.7	13.8	7.5	3.1	2.0	2.0	2.7	2.6	2.6	4.3
109.5°	40.4	24.6	13.7	7.5	3.2	2.0	2.0	2.7	2.7	2.6	4.3
110°	40.4	24.6	13.7	7.4	3.2	2.0	2.1	2.8	2.7	2.7	4.3
110.5°	40.4	24.6	13.7	7.3	3.2	2.1	2.1	2.8	2.8	2.7	4.3
111°	40.5	24.5	13.7	7.2	3.3	2.1	2.2	2.8	2.8	2.8	4.3
111.5°	40.5	24.5	13.8	7.2	3.3	2.2	2.2	2.9	2.8	2.8	4.3
112°	40.6	24.4	13.8	7.2	3.4	2.2	2.3	2.9	2.9	2.8	4.3

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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	40.6	24.4	13.9	7.2	3.4	2.3	2.4	3.0	2.9	2.9	4.3
113°	40.6	24.3	13.9	7.2	3.5	2.4	2.4	3.0	3.0	2.9	4.4
113.5°	40.7	24.2	13.9	7.2	3.5	2.4	2.5	3.0	3.0	2.9	4.4
114°	40.7	24.2	13.8	7.2	3.6	2.5	2.5	3.1	3.0	3.0	4.4
114.5°	40.7	24.1	13.8	7.2	3.6	2.5	2.6	3.1	3.1	3.0	4.4
115°	40.7	24.1	13.7	7.3	3.7	2.6	2.6	3.1	3.1	3.1	4.4
115.5°	40.7	24.0	13.7	7.4	3.8	2.6	2.7	3.2	3.1	3.1	4.5
116°	40.7	24.0	13.6	7.5	3.9	2.7	2.7	3.2	3.2	3.1	4.5
116.5°	40.8	23.9	13.6	7.6	3.9	2.8	2.8	3.3	3.2	3.2	4.5
117°	40.9	23.9	13.6	7.7	4.0	2.8	2.9	3.3	3.3	3.2	4.6
117.5°	41.0	23.9	13.5	7.8	4.1	2.9	2.9	3.3	3.3	3.2	4.6
118°	41.1	23.8	13.5	7.9	4.2	3.0	3.0	3.4	3.3	3.3	4.6
118.5°	41.1	23.8	13.5	8.0	4.3	3.1	3.1	3.4	3.4	3.3	4.7
119°	41.2	23.7	13.5	8.1	4.4	3.1	3.2	3.5	3.4	3.4	4.7
119.5°	41.3	23.7	13.5	8.2	4.4	3.2	3.2	3.5	3.5	3.4	4.7
120°	41.3	23.7	13.5	8.3	4.5	3.3	3.3	3.5	3.5	3.5	4.8
120.5°	41.3	23.7	13.5	8.4	4.6	3.4	3.4	3.6	3.5	3.5	4.8
121°	41.4	23.6	13.6	8.4	4.6	3.4	3.5	3.6	3.6	3.5	4.8
121.5°	41.4	23.6	13.6	8.5	4.7	3.5	3.5	3.7	3.6	3.6	4.9
122°	41.4	23.7	13.7	8.6	4.7	3.6	3.6	3.7	3.7	3.6	4.9
122.5°	41.5	23.7	13.7	8.7	4.8	3.6	3.7	3.8	3.7	3.7	5.0
123°	41.5	23.7	13.8	8.8	4.8	3.7	3.7	3.8	3.8	3.7	5.0
123.5°	41.5	23.8	13.9	8.8	4.9	3.8	3.8	3.9	3.8	3.8	5.1
124°	41.5	23.9	14.0	8.9	4.9	3.8	3.9	3.9	3.9	3.8	5.2
124.5°	41.6	24.0	14.1	8.9	5.0	3.9	3.9	4.0	3.9	3.9	5.2
125°	41.7	24.1	14.1	9.0	5.0	4.0	4.0	4.0	4.0	3.9	5.3
125.5°	41.8	24.3	14.2	9.0	5.0	4.0	4.1	4.1	4.0	4.0	5.4
126°	42.0	24.4	14.4	9.1	5.1	4.1	4.1	4.1	4.1	4.1	5.5
126.5°	42.2	24.6	14.5	9.1	5.1	4.1	4.2	4.2	4.2	4.1	5.6
127°	42.4	24.7	14.6	9.2	5.2	4.2	4.2	4.3	4.3	4.2	5.7
127.5°	42.6	24.9	14.7	9.2	5.2	4.2	4.3	4.4	4.3	4.3	5.7
128°	42.9	25.1	14.8	9.3	5.2	4.3	4.4	4.4	4.4	4.3	5.8
128.5°	43.2	25.3	14.9	9.3	5.3	4.4	4.4	4.5	4.5	4.4	5.9
129°	43.5	25.5	15.0	9.4	5.3	4.4	4.5	4.6	4.5	4.5	5.9
129.5°	43.8	25.6	15.1	9.4	5.4	4.5	4.5	4.7	4.6	4.5	6.0
130°	44.2	25.8	15.2	9.4	5.4	4.5	4.6	4.7	4.7	4.6	6.0
130.5°	44.5	26.0	15.3	9.4	5.4	4.6	4.7	4.8	4.8	4.7	6.1
131°	44.9	26.2	15.4	9.5	5.5	4.6	4.7	4.9	4.8	4.7	6.1
131.5°	45.2	26.4	15.5	9.5	5.5	4.7	4.8	5.0	4.9	4.8	6.1
132°	45.6	26.6	15.6	9.6	5.5	4.7	4.8	5.0	5.0	4.9	6.2
132.5°	45.9	26.8	15.8	9.6	5.6	4.8	4.9	5.1	5.0	5.0	6.2
133°	46.2	27.0	15.8	9.6	5.6	4.8	4.9	5.2	5.1	5.0	6.3
133.5°	46.6	27.2	15.9	9.7	5.6	4.9	5.0	5.2	5.2	5.1	6.3
134°	46.9	27.3	16.0	9.7	5.7	4.9	5.0	5.3	5.3	5.2	6.4
134.5°	47.2	27.5	16.1	9.7	5.7	5.0	5.1	5.4	5.4	5.3	6.4

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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	47.5	27.6	16.1	9.7	5.7	5.0	5.1	5.5	5.4	5.3	6.4
135.5°	47.8	27.7	16.2	9.7	5.7	5.1	5.2	5.5	5.5	5.4	6.5
136°	48.0	27.8	16.2	9.7	5.7	5.1	5.2	5.6	5.6	5.5	6.5
136.5°	48.3	27.9	16.2	9.7	5.8	5.1	5.2	5.7	5.6	5.5	6.5
137°	48.5	27.9	16.3	9.7	5.8	5.2	5.3	5.7	5.7	5.6	6.6
137.5°	48.6	28.0	16.3	9.7	5.8	5.2	5.3	5.8	5.8	5.7	6.6
138°	48.8	28.0	16.3	9.7	5.8	5.2	5.4	5.8	5.8	5.7	6.6
138.5°	48.9	28.0	16.3	9.7	5.8	5.3	5.4	5.9	5.9	5.8	6.7
139°	49.0	28.1	16.3	9.7	5.9	5.3	5.4	5.9	5.9	5.8	6.7
139.5°	49.1	28.1	16.3	9.7	5.9	5.4	5.5	6.0	6.0	5.9	6.7
140°	49.1	28.0	16.3	9.7	5.9	5.4	5.5	6.0	6.0	5.9	6.7
140.5°	49.0	28.0	16.2	9.6	5.9	5.4	5.5	6.1	6.1	6.0	6.7
141°	48.9	27.9	16.2	9.6	5.9	5.4	5.6	6.1	6.1	6.0	6.7
141.5°	48.8	27.9	16.1	9.6	5.9	5.5	5.6	6.2	6.2	6.1	6.8
142°	48.6	27.8	16.0	9.5	5.9	5.5	5.6	6.2	6.2	6.1	6.8
142.5°	48.4	27.7	16.0	9.5	5.9	5.5	5.6	6.2	6.2	6.2	6.8
143°	48.1	27.6	15.8	9.4	5.9	5.5	5.6	6.3	6.3	6.2	6.8
143.5°	47.8	27.4	15.7	9.3	5.9	5.5	5.6	6.3	6.3	6.2	6.8
144°	47.5	27.3	15.6	9.3	5.9	5.5	5.6	6.3	6.3	6.3	6.8
144.5°	47.0	27.2	15.5	9.2	5.8	5.5	5.7	6.4	6.4	6.3	6.8
145°	46.6	27.0	15.4	9.1	5.8	5.6	5.7	6.4	6.4	6.3	6.8
145.5°	46.0	26.8	15.3	9.1	5.8	5.6	5.7	6.4	6.4	6.3	6.7
146°	45.5	26.6	15.1	9.0	5.8	5.6	5.7	6.4	6.4	6.4	6.7
146.5°	44.8	26.4	15.0	8.9	5.8	5.6	5.7	6.4	6.4	6.4	6.7
147°	44.1	26.2	14.8	8.8	5.8	5.6	5.7	6.4	6.4	6.4	6.7
147.5°	43.4	26.0	14.7	8.8	5.8	5.6	5.7	6.4	6.4	6.4	6.6
148°	42.6	25.7	14.5	8.7	5.8	5.6	5.8	6.4	6.4	6.4	6.6
148.5°	41.8	25.4	14.4	8.6	5.8	5.7	5.8	6.4	6.4	6.4	6.6
149°	40.9	25.1	14.2	8.5	5.7	5.7	5.8	6.4	6.4	6.4	6.5
149.5°	40.0	24.8	14.1	8.4	5.7	5.7	5.8	6.4	6.4	6.4	6.5
150°	39.0	24.5	13.9	8.3	5.7	5.7	5.8	6.4	6.4	6.4	6.4
150.5°	38.0	24.1	13.7	8.2	5.7	5.7	5.8	6.4	6.4	6.3	6.4
151°	37.0	23.7	13.6	8.1	5.6	5.7	5.8	6.3	6.4	6.3	6.3
151.5°	36.0	23.3	13.4	8.0	5.6	5.7	5.8	6.3	6.3	6.3	6.3
152°	34.9	22.9	13.2	7.9	5.6	5.7	5.8	6.3	6.3	6.3	6.2
152.5°	33.9	22.4	13.0	7.8	5.6	5.7	5.8	6.3	6.3	6.3	6.2
153°	32.8	22.0	12.8	7.7	5.5	5.7	5.8	6.3	6.3	6.3	6.1
153.5°	31.7	21.5	12.6	7.6	5.5	5.7	5.8	6.3	6.3	6.2	6.1
154°	30.5	21.0	12.4	7.5	5.5	5.7	5.8	6.2	6.2	6.2	6.0
154.5°	29.4	20.4	12.2	7.3	5.5	5.7	5.8	6.2	6.2	6.2	6.0
155°	28.3	19.9	11.9	7.2	5.5	5.7	5.8	6.2	6.2	6.1	6.0
155.5°	27.2	19.3	11.7	7.0	5.4	5.7	5.8	6.1	6.1	6.1	5.9
156°	26.1	18.8	11.4	6.9	5.4	5.7	5.9	6.1	6.1	6.1	5.9
156.5°	25.0	18.2	11.2	6.7	5.5	5.7	5.9	6.1	6.1	6.0	5.9
157°	23.9	17.6	10.9	6.6	5.5	5.8	5.9	6.1	6.1	6.0	5.9



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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	22.9	17.0	10.7	6.4	5.5	5.8	5.9	6.0	6.0	6.0	5.8
158°	21.8	16.4	10.4	6.3	5.5	5.8	6.0	6.0	6.0	6.0	5.8
158.5°	20.8	15.7	10.1	6.1	5.5	5.8	6.0	6.0	6.0	6.0	5.8
159°	19.8	15.1	9.7	6.0	5.6	5.9	6.0	6.0	6.0	5.9	5.8
159.5°	18.8	14.5	9.4	5.8	5.6	5.9	6.0	6.0	6.0	5.9	5.8
160°	17.8	13.8	9.1	5.7	5.6	5.9	6.1	6.0	6.0	5.9	5.7
160.5°	16.8	13.2	8.7	5.6	5.6	5.9	6.1	6.0	5.9	5.9	5.7
161°	15.9	12.5	8.3	5.6	5.6	5.9	6.1	5.9	5.9	5.8	5.7
161.5°	15.0	11.8	8.0	5.6	5.6	5.9	6.1	5.9	5.9	5.8	5.7
162°	14.1	11.2	7.6	5.5	5.6	5.9	6.1	5.8	5.8	5.8	5.6
162.5°	13.2	10.5	7.2	5.4	5.6	5.9	6.1	5.8	5.8	5.7	5.6
163°	12.3	9.9	6.9	5.3	5.6	5.9	6.1	5.8	5.8	5.7	5.6
163.5°	11.5	9.3	6.5	5.3	5.6	5.9	6.1	5.8	5.7	5.7	5.5
164°	10.8	8.8	6.2	5.4	5.7	6.0	6.1	5.7	5.7	5.6	5.5
164.5°	10.1	8.2	6.0	5.4	5.7	6.0	6.2	5.7	5.7	5.6	5.5
165°	9.4	7.8	5.8	5.5	5.8	6.0	6.2	5.6	5.6	5.6	5.4
165.5°	8.8	7.3	5.6	5.6	5.8	6.1	6.3	5.6	5.6	5.6	5.4
166°	8.2	6.9	5.5	5.7	5.9	6.2	6.3	5.6	5.6	5.6	5.4
166.5°	7.7	6.4	5.6	5.7	6.0	6.2	6.4	5.6	5.6	5.6	5.5
167°	7.2	6.1	5.6	5.8	6.1	6.3	6.5	5.6	5.6	5.6	5.5
167.5°	6.7	5.7	5.7	5.9	6.1	6.3	6.5	5.6	5.6	5.6	5.5
168°	6.1	5.5	5.7	5.9	6.1	6.4	6.5	5.6	5.6	5.6	5.5
168.5°	5.7	5.5	5.7	5.9	6.1	6.4	6.6	5.6	5.6	5.6	5.5
169°	5.3	5.5	5.7	5.9	6.1	6.4	6.6	5.6	5.6	5.5	5.4
169.5°	5.3	5.5	5.7	5.9	6.2	6.4	6.6	5.6	5.6	5.5	5.4
170°	5.3	5.5	5.8	6.0	6.2	6.4	6.7	5.5	5.5	5.5	5.4
170.5°	5.3	5.6	5.8	6.0	6.2	6.5	6.7	5.5	5.5	5.4	5.3
171°	5.4	5.6	5.8	6.0	6.3	6.5	6.7	5.5	5.5	5.4	5.3
171.5°	5.4	5.7	5.9	6.1	6.3	6.6	6.8	5.5	5.5	5.4	5.3
172°	5.5	5.8	6.0	6.2	6.4	6.7	6.9	5.5	5.4	5.4	5.2
172.5°	5.6	5.9	6.1	6.3	6.5	6.8	7.0	5.4	5.4	5.3	5.2
173°	5.7	6.0	6.2	6.4	6.6	6.9	7.1	5.4	5.4	5.3	5.2
173.5°	5.8	6.0	6.3	6.5	6.7	7.0	7.2	5.4	5.3	5.3	5.1
174°	5.9	6.1	6.3	6.5	6.7	7.0	7.2	5.4	5.3	5.2	5.1
174.5°	5.8	6.1	6.3	6.5	6.7	7.0	7.2	5.3	5.3	5.2	5.1
175°	5.9	6.1	6.3	6.5	6.7	6.9	7.2	5.3	5.3	5.2	5.1
175.5°	5.9	6.1	6.3	6.5	6.7	6.9	7.1	5.2	5.2	5.2	5.0
176°	5.9	6.1	6.3	6.5	6.7	6.9	7.1	5.2	5.2	5.1	5.0
176.5°	5.9	6.1	6.2	6.4	6.6	6.9	7.1	5.1	5.1	5.0	4.9
177°	5.9	6.1	6.2	6.4	6.6	6.8	7.0	5.1	5.1	5.0	4.9
177.5°	5.8	6.0	6.2	6.3	6.5	6.7	6.9	5.1	5.0	5.0	4.8
178°	5.8	5.9	6.1	6.2	6.4	6.7	6.9	5.0	5.0	4.9	4.8
178.5°	5.7	5.9	6.1	6.2	6.4	6.6	6.8	5.0	4.9	4.9	4.8
179°	5.7	5.8	6.0	6.1	6.3	6.6	6.7	4.9	4.9	4.8	4.7
179.5°	5.6	5.8	6.0	6.1	6.3	6.5	6.7	4.9	4.8	4.8	4.7



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



REPORT NUMBER: P973048

CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2	4658.2
0.5°	4597.5	4604.0	4615.9	4629.2	4641.7	4656.7	4673.3	4688.4	4699.1	4710.1	4724.1
1°	4574.8	4578.1	4593.8	4614.1	4632.5	4657.7	4689.1	4721.1	4751.3	4766.3	4778.1
1.5°	4606.6	4593.3	4585.6	4594.9	4621.7	4658.8	4700.3	4750.7	4773.6	4767.5	4744.9
2°	4651.3	4622.6	4603.8	4589.8	4609.7	4655.6	4717.4	4765.3	4753.0	4706.3	4640.9
2.5°	4695.7	4661.3	4633.7	4598.5	4599.9	4653.1	4729.0	4762.6	4701.5	4593.1	4474.6
3°	4729.6	4698.9	4656.2	4612.8	4593.4	4647.9	4737.3	4738.4	4611.1	4455.4	4320.6
3.5°	4735.7	4720.8	4681.7	4628.8	4589.4	4647.9	4746.6	4694.3	4514.5	4331.5	4234.5
4°	4687.1	4724.7	4705.6	4644.6	4595.2	4648.6	4750.5	4652.6	4414.9	4237.1	4202.2
4.5°	4606.0	4703.1	4727.9	4671.7	4598.9	4645.4	4748.5	4589.1	4309.8	4200.5	4221.1
5°	4539.9	4647.7	4733.9	4692.3	4604.7	4640.5	4744.6	4513.1	4244.3	4202.3	4237.2
5.5°	4507.6	4581.9	4718.7	4707.5	4596.7	4635.6	4726.9	4436.6	4200.1	4221.0	4191.6
6°	4511.9	4531.7	4681.4	4710.3	4597.0	4628.5	4704.9	4353.8	4182.8	4229.6	4078.0
6.5°	4530.3	4510.6	4627.1	4710.1	4596.4	4618.9	4678.7	4275.2	4190.4	4190.0	3929.5
7°	4514.1	4514.7	4570.5	4708.9	4594.7	4612.8	4645.6	4224.1	4202.0	4085.1	3812.9
7.5°	4454.4	4519.8	4515.6	4701.0	4598.1	4606.2	4607.2	4183.6	4206.3	3947.5	3785.3
8°	4353.0	4515.2	4488.0	4678.6	4604.3	4593.9	4566.2	4154.8	4178.0	3834.2	3852.0
8.5°	4214.1	4479.5	4476.0	4644.9	4604.1	4581.3	4521.6	4146.3	4121.3	3764.3	3982.7
9°	4071.3	4414.8	4477.7	4599.5	4605.5	4572.3	4476.0	4145.6	4027.3	3772.3	4108.9
9.5°	3985.1	4317.3	4475.6	4554.3	4606.5	4559.6	4417.4	4141.6	3925.5	3827.3	4177.6
10°	3947.5	4193.3	4470.8	4503.0	4604.5	4549.3	4371.4	4149.5	3828.2	3936.9	4160.1
10.5°	3943.3	4076.1	4450.1	4464.2	4603.7	4540.4	4327.1	4145.9	3743.6	4046.6	4079.7
11°	3927.5	3972.5	4411.4	4431.7	4602.3	4526.5	4277.0	4128.4	3716.2	4117.3	4010.4
11.5°	3882.2	3913.8	4351.4	4406.7	4595.6	4517.1	4234.9	4097.3	3728.1	4144.8	3991.2
12°	3760.5	3885.8	4272.3	4395.2	4587.7	4503.1	4187.4	4053.2	3773.5	4100.3	4057.2
12.5°	3605.7	3880.2	4184.0	4385.6	4576.2	4487.2	4142.5	3987.2	3843.3	4034.0	4183.8
13°	3443.5	3871.6	4078.4	4376.5	4563.3	4470.6	4104.1	3921.9	3917.6	3980.6	4360.8
13.5°	3327.4	3831.6	3978.9	4361.2	4535.0	4453.6	4072.9	3846.2	3987.4	3961.6	4496.5
14°	3261.6	3750.7	3899.3	4346.5	4516.0	4437.4	4040.4	3764.7	4027.7	3991.7	4545.4
14.5°	3223.5	3632.8	3828.8	4322.9	4487.8	4413.5	4016.4	3707.8	4038.0	4072.3	4521.7
15°	3174.8	3481.3	3785.9	4294.5	4461.4	4394.6	3991.8	3657.0	4017.2	4195.5	4450.8
15.5°	3089.8	3349.1	3763.7	4258.6	4431.1	4376.1	3975.7	3626.4	3966.6	4312.4	4383.8
16°	2959.7	3244.2	3744.2	4218.8	4399.3	4357.0	3957.5	3613.3	3916.7	4402.1	4373.3
16.5°	2809.8	3176.5	3726.6	4173.5	4366.3	4338.0	3942.2	3619.3	3877.8	4439.2	4429.4
17°	2664.2	3136.2	3703.6	4125.2	4334.9	4314.2	3927.3	3638.3	3863.7	4427.9	4514.2
17.5°	2543.3	3100.3	3653.4	4060.1	4299.0	4291.9	3907.5	3660.1	3872.6	4381.8	4598.5
18°	2453.6	3043.2	3576.4	3990.5	4261.0	4270.2	3892.0	3693.9	3911.2	4313.4	4659.5
18.5°	2377.4	2958.1	3474.0	3915.1	4222.3	4246.4	3870.0	3725.4	3970.8	4269.3	4693.8
19°	2298.9	2840.8	3355.8	3829.5	4179.7	4224.6	3852.4	3749.8	4035.1	4263.5	4720.7
19.5°	2202.9	2712.3	3245.4	3753.2	4144.9	4197.6	3831.0	3772.6	4107.9	4297.2	4757.7
20°	2091.2	2584.5	3150.9	3680.8	4105.2	4177.0	3801.2	3784.7	4159.3	4357.6	4834.3
20.5°	1961.9	2479.1	3066.6	3617.5	4073.3	4149.9	3773.0	3776.0	4191.1	4424.2	4959.0
21°	1836.3	2392.8	3007.5	3564.5	4041.0	4123.5	3738.9	3756.7	4205.7	4488.7	5130.3
21.5°	1759.0	2323.7	2965.2	3520.9	4007.5	4089.9	3698.8	3731.3	4193.1	4533.5	5311.7
22°	1681.8	2259.0	2923.2	3482.2	3978.1	4058.5	3662.1	3700.4	4158.8	4563.1	5494.7



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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1604.6	2182.8	2876.9	3454.3	3952.5	4030.3	3628.0	3673.4	4108.8	4579.6	5650.1
23°	1527.4	2102.8	2820.9	3427.8	3925.5	3999.7	3589.6	3645.8	4061.7	4601.2	5741.2
23.5°	1452.0	2015.9	2749.4	3405.3	3904.1	3973.4	3550.1	3628.9	4027.7	4643.3	5811.4
24°	1408.7	1917.0	2662.8	3377.2	3877.9	3942.7	3506.7	3613.2	4012.5	4725.8	5892.9
24.5°	1370.9	1822.2	2576.7	3341.5	3852.4	3916.9	3460.8	3603.4	4019.9	4833.0	5983.0
25°	1334.8	1732.4	2487.9	3297.4	3827.6	3894.5	3422.1	3599.4	4043.2	4964.3	6103.3
25.5°	1297.8	1672.8	2408.6	3242.0	3804.5	3868.8	3383.5	3604.7	4079.9	5115.4	6247.7
26°	1262.6	1613.2	2333.4	3182.6	3777.8	3847.1	3344.6	3622.4	4114.1	5224.9	6351.7
26.5°	1227.3	1553.6	2264.7	3114.2	3756.4	3825.7	3317.6	3637.9	4144.2	5312.1	6421.4
27°	1192.3	1494.0	2206.3	3053.3	3731.3	3808.4	3291.3	3666.9	4176.8	5382.7	6455.9
27.5°	1156.7	1435.0	2147.6	2984.4	3707.5	3786.8	3268.8	3695.5	4196.1	5423.6	6466.4
28°	1119.5	1398.7	2090.4	2924.1	3680.1	3769.6	3252.0	3715.8	4210.9	5456.6	6476.9
28.5°	1084.6	1365.5	2037.5	2876.6	3656.4	3749.7	3233.5	3739.6	4230.8	5505.0	6502.3
29°	1049.9	1333.9	1980.2	2830.3	3626.7	3734.0	3220.7	3755.2	4255.0	5564.9	6521.9
29.5°	1014.3	1300.7	1921.9	2789.3	3598.9	3714.7	3210.0	3755.7	4279.4	5637.3	6518.8
30°	979.8	1269.2	1869.0	2757.9	3571.6	3696.5	3197.4	3750.1	4324.1	5723.7	6489.9
30.5°	944.6	1238.5	1813.9	2724.9	3541.9	3676.8	3188.5	3733.1	4378.0	5785.2	6444.7
31°	910.0	1206.2	1759.9	2691.6	3510.9	3659.7	3180.1	3709.7	4434.3	5811.8	6399.2
31.5°	877.2	1174.2	1710.0	2661.7	3481.7	3642.4	3172.6	3680.6	4519.8	5822.2	6363.2
32°	845.9	1142.6	1662.8	2627.4	3449.3	3625.1	3171.3	3646.3	4592.3	5812.6	6336.1
32.5°	813.6	1110.1	1628.2	2587.5	3423.3	3608.9	3169.9	3617.7	4646.8	5804.6	6302.1
33°	783.3	1078.4	1593.5	2553.6	3395.4	3595.5	3171.8	3599.7	4696.5	5806.4	6259.0
33.5°	754.5	1047.5	1558.9	2513.3	3370.9	3581.6	3171.3	3589.6	4731.1	5809.9	6203.1
34°	725.9	1016.1	1524.3	2477.0	3342.8	3569.1	3171.8	3584.9	4749.4	5808.3	6144.1
34.5°	699.3	984.3	1490.0	2444.6	3315.9	3559.4	3171.1	3588.1	4767.2	5796.8	6089.9
35°	674.2	954.1	1465.8	2413.0	3292.2	3548.5	3171.5	3597.1	4778.4	5770.4	6045.9
35.5°	648.3	922.3	1443.3	2383.5	3273.2	3538.1	3168.3	3602.3	4784.0	5730.3	5999.0
36°	625.8	893.7	1424.6	2360.6	3255.1	3527.0	3168.0	3607.9	4800.3	5685.2	5941.4
36.5°	603.4	865.9	1405.8	2335.9	3240.2	3519.2	3166.0	3615.5	4825.3	5642.1	5873.7
37°	580.2	838.0	1386.2	2315.1	3227.4	3512.4	3157.7	3615.2	4848.2	5601.8	5806.5
37.5°	559.2	813.1	1368.1	2297.6	3214.5	3504.3	3147.8	3616.5	4870.4	5564.6	5738.8
38°	539.2	791.0	1349.7	2276.2	3205.3	3498.0	3135.0	3619.9	4887.9	5524.4	5688.4
38.5°	519.0	768.6	1331.2	2258.9	3198.0	3493.1	3119.8	3623.2	4894.3	5486.7	5644.9
39°	500.5	747.3	1314.0	2243.2	3193.1	3487.3	3107.8	3626.9	4897.5	5444.4	5592.7
39.5°	481.8	727.6	1293.8	2222.6	3186.5	3480.8	3091.0	3635.8	4893.8	5397.5	5543.8
40°	463.5	708.4	1275.4	2207.5	3180.4	3476.7	3080.1	3644.5	4880.6	5359.6	5497.5
40.5°	445.8	690.5	1257.4	2191.3	3169.6	3465.5	3069.1	3654.0	4868.1	5327.5	5453.8
41°	428.7	674.2	1237.7	2172.4	3158.3	3455.4	3058.7	3666.3	4856.3	5289.2	5413.3
41.5°	412.7	657.9	1218.9	2154.5	3147.2	3444.4	3050.5	3674.8	4845.8	5252.8	5382.8
42°	398.2	643.5	1201.5	2137.6	3132.1	3434.3	3042.1	3683.7	4841.5	5214.4	5356.8
42.5°	383.2	628.5	1182.0	2117.1	3116.1	3426.2	3036.1	3697.1	4837.4	5175.4	5328.8
43°	369.0	614.5	1163.9	2099.2	3100.4	3419.6	3032.1	3705.0	4824.5	5135.0	5294.5
43.5°	356.3	601.4	1147.0	2082.2	3085.7	3416.0	3031.6	3712.8	4807.5	5097.6	5262.9
44°	343.6	588.5	1128.7	2061.1	3071.8	3413.1	3034.5	3728.4	4782.9	5065.6	5233.2
44.5°	331.6	575.5	1111.3	2043.7	3059.5	3409.0	3037.6	3738.8	4748.0	5037.3	5215.2



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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	320.6	564.0	1097.1	2027.6	3047.8	3407.5	3040.4	3749.4	4713.7	5008.7	5199.6
45.5°	310.1	552.2	1083.0	2007.7	3037.4	3403.0	3043.4	3764.7	4685.7	4978.0	5184.4
46°	300.2	540.4	1071.1	1991.7	3026.4	3399.5	3045.5	3773.8	4659.1	4942.5	5170.3
46.5°	291.3	529.5	1061.0	1974.6	3013.7	3393.8	3044.7	3778.4	4637.5	4906.4	5159.9
47°	282.6	518.7	1050.7	1957.1	3001.2	3387.4	3043.4	3788.1	4616.0	4871.1	5147.6
47.5°	274.7	507.4	1042.9	1941.6	2989.0	3381.5	3040.8	3792.6	4591.3	4838.2	5135.8
48°	267.8	497.5	1035.3	1924.1	2974.8	3373.6	3034.7	3795.3	4564.0	4805.4	5126.2
48.5°	260.4	487.3	1027.4	1904.9	2962.9	3363.8	3026.9	3805.2	4535.4	4767.4	5115.7
49°	254.0	477.8	1020.2	1887.1	2952.9	3355.4	3015.3	3811.6	4507.0	4728.8	5098.3
49.5°	247.8	468.9	1013.8	1868.0	2940.2	3345.2	3004.2	3821.0	4483.6	4685.9	5082.1
50°	241.5	460.0	1005.3	1847.1	2926.4	3335.2	2989.7	3833.5	4456.9	4641.3	5058.4
50.5°	235.7	451.4	998.9	1828.2	2914.1	3325.5	2972.5	3836.3	4428.5	4600.7	5030.9
51°	230.3	443.6	991.8	1806.0	2897.0	3315.0	2952.8	3838.3	4400.3	4555.4	4997.7
51.5°	224.7	435.3	982.6	1783.6	2880.6	3301.2	2929.8	3838.6	4364.3	4514.0	4959.7
52°	219.6	427.7	975.4	1765.1	2864.3	3282.5	2906.3	3830.2	4325.8	4477.7	4924.9
52.5°	214.7	420.1	966.0	1744.5	2847.2	3263.8	2879.5	3820.2	4283.7	4432.7	4886.4
53°	209.6	411.9	954.6	1725.7	2827.0	3240.6	2849.4	3806.4	4237.8	4388.3	4847.1
53.5°	204.9	404.2	944.8	1708.8	2807.7	3215.4	2818.5	3783.0	4190.2	4342.6	4820.7
54°	200.1	396.5	932.9	1690.6	2785.2	3184.9	2785.1	3755.3	4138.5	4295.2	4786.9
54.5°	195.1	388.6	921.7	1670.1	2761.0	3150.1	2749.0	3725.7	4087.6	4248.7	4744.9
55°	190.7	381.2	910.3	1652.7	2733.2	3108.5	2713.6	3693.7	4037.4	4205.1	4711.2
55.5°	186.1	373.7	897.6	1635.7	2704.9	3064.8	2673.1	3656.0	3985.7	4160.3	4666.3
56°	181.2	366.0	884.2	1618.6	2671.8	3016.6	2630.4	3614.3	3926.3	4111.5	4621.8
56.5°	176.8	359.0	872.9	1604.0	2639.7	2967.9	2586.5	3569.8	3871.5	4064.1	4580.0
57°	172.5	352.2	859.9	1590.0	2604.2	2912.0	2543.2	3518.2	3816.1	4017.5	4525.1
57.5°	168.2	345.2	846.6	1576.3	2569.1	2858.4	2497.7	3462.6	3763.3	3972.8	4475.4
58°	163.9	338.7	834.0	1563.3	2535.0	2803.4	2451.5	3399.9	3708.5	3919.2	4424.8
58.5°	159.6	332.2	820.8	1550.3	2500.8	2752.3	2409.3	3341.4	3652.0	3868.8	4367.4
59°	155.3	324.8	806.7	1537.4	2467.8	2701.3	2362.8	3278.4	3592.2	3813.4	4294.5
59.5°	150.9	317.4	792.1	1524.4	2432.1	2649.4	2318.8	3215.9	3533.7	3762.2	4222.7
60°	146.5	309.3	777.1	1511.3	2395.8	2596.9	2276.6	3154.3	3476.0	3714.4	4151.3
60.5°	142.1	300.9	760.9	1495.6	2360.3	2546.4	2233.4	3094.9	3419.1	3669.8	4070.7
61°	137.7	293.6	745.5	1479.3	2323.0	2493.2	2189.6	3030.2	3363.0	3624.7	3984.3
61.5°	133.4	286.3	728.2	1460.1	2286.5	2442.1	2147.4	2970.2	3303.7	3571.2	3906.2
62°	129.1	279.2	709.9	1438.8	2251.4	2391.4	2108.9	2906.9	3239.1	3510.2	3825.0
62.5°	125.1	272.4	692.5	1415.3	2214.8	2342.3	2068.5	2852.0	3175.4	3446.4	3742.5
63°	120.7	265.0	672.2	1388.0	2177.9	2297.6	2030.0	2792.1	3111.1	3376.7	3661.5
63.5°	116.7	257.5	653.5	1358.6	2140.7	2254.8	1991.2	2731.3	3047.8	3294.9	3573.8
64°	112.8	250.3	634.5	1331.0	2104.2	2209.7	1954.0	2673.6	2982.9	3211.3	3489.5
64.5°	109.0	242.5	614.8	1302.9	2064.1	2162.4	1915.3	2619.9	2919.3	3132.4	3412.2
65°	105.0	234.2	593.8	1276.4	2024.8	2115.8	1874.6	2562.9	2854.2	3051.0	3332.1
65.5°	101.3	226.3	575.1	1249.6	1981.0	2071.2	1835.0	2507.9	2789.0	2965.8	3252.8
66°	97.3	218.5	554.8	1218.9	1938.8	2022.6	1795.3	2454.3	2724.1	2888.1	3174.5
66.5°	93.4	210.4	535.4	1188.5	1896.6	1972.8	1751.8	2399.6	2656.5	2810.6	3093.9
67°	89.1	203.1	516.1	1158.7	1853.2	1925.3	1709.2	2341.1	2590.6	2730.7	3018.7

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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	84.4	196.5	498.2	1126.6	1808.0	1882.3	1667.9	2284.3	2521.5	2654.7	2948.2
68°	77.3	189.5	480.0	1092.6	1762.7	1839.4	1626.3	2227.6	2449.4	2577.3	2873.1
68.5°	69.4	182.7	462.9	1059.1	1715.8	1793.3	1584.7	2175.3	2380.1	2508.4	2797.4
69°	60.3	176.2	446.6	1024.4	1670.1	1744.3	1543.1	2117.0	2307.3	2439.8	2717.8
69.5°	54.7	169.7	430.7	990.4	1622.8	1697.6	1501.6	2062.9	2233.2	2369.5	2634.6
70°	53.1	163.1	415.2	957.5	1575.6	1647.0	1459.9	2009.9	2162.4	2303.8	2552.2
70.5°	51.8	156.6	400.3	920.6	1528.3	1596.4	1417.4	1954.4	2091.8	2237.4	2469.6
71°	50.6	150.0	385.7	888.4	1481.1	1545.9	1375.7	1896.8	2019.9	2167.0	2386.0
71.5°	49.6	141.7	372.3	859.2	1433.8	1495.3	1331.6	1841.8	1948.8	2094.8	2304.0
72°	48.5	132.4	358.5	831.9	1383.8	1444.7	1288.1	1786.3	1883.4	2030.4	2229.1
72.5°	47.5	125.6	344.6	804.5	1334.3	1391.5	1242.2	1727.4	1817.4	1960.0	2150.3
73°	46.5	120.9	329.6	777.0	1284.3	1342.3	1200.0	1663.6	1753.0	1886.1	2070.1
73.5°	45.5	115.8	315.3	750.3	1233.4	1293.1	1160.0	1599.7	1694.2	1819.7	1997.2
74°	44.6	110.8	302.1	725.6	1184.7	1240.8	1118.1	1535.8	1634.8	1747.0	1919.4
74.5°	43.7	106.3	290.9	701.9	1136.2	1188.7	1074.7	1472.0	1575.5	1679.1	1845.8
75°	42.7	102.1	279.2	679.6	1088.9	1139.6	1033.0	1408.1	1516.1	1611.3	1770.9
75.5°	41.8	98.0	267.4	659.2	1044.6	1090.1	990.0	1339.3	1456.6	1543.4	1695.5
76°	40.9	94.3	256.4	640.8	1001.7	1041.7	947.8	1271.4	1397.0	1475.6	1620.1
76.5°	39.9	90.9	245.1	620.0	963.0	995.8	907.1	1211.4	1336.8	1407.9	1544.7
77°	39.0	87.4	234.8	599.4	922.5	949.5	864.4	1150.5	1273.6	1342.7	1469.3
77.5°	38.1	84.1	226.2	579.3	884.5	899.8	822.4	1088.7	1210.2	1279.7	1393.9
78°	37.1	80.8	217.3	556.1	841.6	849.3	781.2	1031.7	1151.5	1219.2	1325.2
78.5°	36.0	77.6	210.0	534.5	796.4	799.7	736.6	975.7	1090.9	1155.4	1252.0
79°	35.0	74.5	202.1	511.8	749.0	752.1	691.6	920.2	1033.2	1095.0	1181.3
79.5°	33.9	71.4	193.6	489.4	700.6	705.7	648.0	869.0	980.2	1039.0	1110.9
80°	32.8	68.5	183.6	466.0	652.4	659.1	604.7	818.1	926.4	978.8	1042.5
80.5°	31.8	65.7	173.5	442.6	608.1	614.2	563.0	767.6	872.5	920.2	974.1
81°	30.7	62.9	163.5	418.6	566.6	570.0	526.4	720.1	822.7	865.5	913.3
81.5°	29.7	60.2	153.5	394.5	527.9	525.6	488.2	674.2	772.3	808.0	848.8
82°	28.7	57.6	143.4	370.5	488.7	480.6	449.1	627.3	724.1	753.7	785.8
82.5°	27.7	54.9	133.1	344.1	452.7	439.1	410.4	583.0	675.8	701.4	728.8
83°	26.8	52.2	122.8	318.8	417.0	398.9	376.0	540.2	628.9	651.6	673.1
83.5°	25.8	49.5	112.7	294.5	381.3	359.5	344.6	499.6	581.9	601.3	621.6
84°	24.9	46.9	103.2	269.9	346.3	322.1	315.0	460.1	538.1	558.3	576.3
84.5°	24.0	44.6	95.1	245.8	312.1	285.5	285.4	421.4	493.1	514.0	530.3
85°	23.2	42.3	87.5	223.1	280.1	251.2	259.8	385.8	453.2	475.2	489.5
85.5°	22.4	40.1	80.2	204.3	249.2	224.9	234.4	351.1	416.2	439.0	452.2
86°	21.6	38.1	74.0	185.6	225.8	198.6	211.9	318.1	380.9	405.1	417.3
86.5°	20.9	36.2	68.4	166.8	202.4	172.3	194.2	288.8	349.2	374.4	384.3
87°	20.1	34.4	63.5	148.0	179.0	145.9	176.5	264.2	322.7	348.1	356.5
87.5°	19.4	32.8	59.2	129.4	155.6	119.8	158.8	239.7	297.2	322.6	329.3
88°	18.7	31.3	55.4	116.8	132.2	102.7	141.4	219.7	274.8	299.5	304.9
88.5°	18.1	29.8	52.1	105.2	116.3	87.7	129.2	202.8	255.5	278.9	283.3
89°	17.4	28.5	49.3	95.3	103.3	75.9	118.2	191.7	238.5	260.9	263.2
89.5°	16.8	27.3	46.8	86.9	92.2	66.2	109.6	180.6	223.7	243.9	245.6

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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	16.3	26.2	44.7	80.1	83.5	59.1	103.0	169.5	209.8	229.7	230.9
90.5°	15.8	25.2	42.9	74.5	76.9	53.7	97.8	158.4	197.3	216.4	217.4
91°	15.3	24.3	41.4	69.8	72.3	49.7	93.7	147.3	187.1	203.9	205.3
91.5°	14.7	23.5	40.2	66.0	68.9	46.9	90.6	141.3	180.8	192.4	193.6
92°	14.2	22.9	39.3	62.8	66.7	45.2	88.2	136.4	174.4	183.5	182.9
92.5°	13.9	22.3	38.6	60.3	65.1	44.1	86.3	132.2	168.1	177.1	176.5
93°	13.6	21.8	38.1	58.6	64.2	43.6	84.6	128.8	161.7	170.7	170.2
93.5°	13.3	21.4	37.8	57.5	63.6	43.5	83.2	125.8	155.5	164.3	163.8
94°	13.0	20.9	37.5	56.8	63.4	43.5	82.0	123.1	151.3	158.0	157.6
94.5°	12.8	20.5	37.4	56.4	63.5	43.8	81.1	120.7	147.6	153.5	153.5
95°	12.5	20.1	37.2	56.1	63.5	44.3	80.5	118.5	144.1	149.4	150.2
95.5°	12.3	19.7	37.0	55.9	63.6	44.8	80.1	116.4	140.9	145.7	147.1
96°	12.1	19.4	36.9	55.7	63.6	45.5	80.1	114.6	138.0	142.5	144.6
96.5°	11.9	19.1	36.6	55.3	63.4	46.3	80.3	113.0	135.4	139.6	142.3
97°	11.7	18.9	36.3	54.9	63.1	47.0	80.4	111.7	132.8	136.9	140.3
97.5°	11.6	18.6	35.8	54.4	62.7	47.9	80.7	110.7	130.6	134.6	138.6
98°	11.4	18.3	35.3	53.8	62.3	48.7	81.1	110.0	128.7	132.6	137.0
98.5°	11.2	18.0	34.6	53.1	61.8	49.6	81.5	109.4	127.0	130.8	135.7
99°	11.0	17.7	33.8	52.3	61.4	50.6	82.0	108.9	125.5	129.3	134.5
99.5°	10.8	17.4	33.0	51.6	61.1	51.5	82.6	108.5	124.2	127.8	133.5
100°	10.6	17.2	32.1	50.8	60.9	52.5	83.2	108.3	123.2	126.4	132.6
100.5°	10.4	16.9	31.3	50.0	60.7	53.5	83.9	108.2	122.4	125.3	131.3
101°	10.2	16.6	30.5	49.3	60.7	54.5	84.5	108.2	121.8	124.8	130.2
101.5°	9.9	16.4	29.8	48.6	60.8	55.5	85.2	108.1	121.3	124.5	130.0
102°	9.6	16.2	29.2	48.0	61.0	56.5	85.9	108.1	120.7	124.3	130.3
102.5°	9.4	16.0	28.6	47.4	61.3	57.5	86.7	108.1	120.2	123.9	130.1
103°	9.1	15.8	28.1	47.0	61.7	58.5	87.6	108.2	119.7	123.6	129.9
103.5°	8.9	15.6	27.6	46.6	62.2	59.5	88.5	108.3	119.3	123.4	129.7
104°	8.7	15.5	27.2	46.2	62.7	60.5	89.4	108.4	118.9	123.2	129.5
104.5°	8.6	15.3	26.9	45.9	63.4	61.5	90.3	108.6	118.4	123.0	129.4
105°	8.5	15.2	26.7	45.7	64.1	62.5	91.1	108.7	118.0	122.9	129.4
105.5°	8.4	15.1	26.6	45.5	64.7	63.5	92.0	108.8	117.5	122.7	129.3
106°	8.3	14.9	26.4	45.4	65.4	64.5	92.8	108.9	117.1	122.5	129.3
106.5°	8.2	14.8	26.3	45.3	66.1	65.5	93.6	109.0	116.7	122.3	129.2
107°	8.1	14.7	26.3	45.3	66.7	66.4	94.4	109.1	116.3	122.1	129.0
107.5°	8.0	14.5	26.2	45.2	67.4	67.3	95.1	109.2	115.9	121.7	128.7
108°	7.9	14.4	26.2	45.2	68.0	68.2	95.9	109.5	115.5	121.2	128.4
108.5°	7.8	14.3	26.2	45.3	68.5	69.0	96.6	109.9	115.2	120.8	127.8
109°	7.8	14.2	26.2	45.3	69.0	69.7	97.3	110.4	115.1	120.5	127.4
109.5°	7.7	14.1	26.2	45.3	69.4	70.5	97.9	110.9	115.0	120.3	126.9
110°	7.5	14.0	26.2	45.4	69.9	71.1	98.7	111.4	114.9	120.1	126.5
110.5°	7.4	14.0	26.2	45.5	70.4	71.8	99.4	111.9	114.8	120.0	126.1
111°	7.3	13.9	26.3	45.5	71.0	72.5	100.1	112.4	114.8	119.9	125.8
111.5°	7.3	13.9	26.3	45.6	71.5	73.3	100.9	112.9	114.7	119.8	125.5
112°	7.3	13.8	26.3	45.6	72.0	74.1	101.6	113.3	114.7	119.8	125.1



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	7.2	13.8	26.3	45.6	72.5	74.8	102.3	113.7	114.7	119.7	124.8
113°	7.2	13.7	26.3	45.6	73.0	75.5	102.9	114.1	114.6	119.7	124.6
113.5°	7.2	13.7	26.3	45.6	73.5	76.1	103.5	114.5	114.6	119.6	124.4
114°	7.2	13.6	26.2	45.5	73.9	76.6	104.0	114.9	114.6	119.5	124.3
114.5°	7.2	13.6	26.2	45.5	74.2	77.2	104.5	115.3	114.6	119.3	124.3
115°	7.2	13.6	26.1	45.5	74.6	77.7	104.9	115.7	114.5	119.2	124.2
115.5°	7.3	13.6	26.0	45.4	74.9	78.2	105.4	116.0	114.5	119.0	124.1
116°	7.3	13.6	26.0	45.4	75.1	78.5	105.7	116.3	114.4	119.0	124.0
116.5°	7.3	13.6	25.9	45.4	75.4	78.7	106.0	116.4	114.3	118.9	123.8
117°	7.4	13.6	25.8	45.3	75.8	78.9	106.3	116.5	114.3	118.8	123.7
117.5°	7.4	13.6	25.7	45.3	76.1	79.1	106.4	116.6	114.3	118.8	123.6
118°	7.5	13.7	25.7	45.3	76.4	79.3	106.5	116.8	114.3	118.7	123.4
118.5°	7.5	13.7	25.6	45.3	76.6	79.4	106.5	116.9	114.2	118.6	123.3
119°	7.6	13.8	25.5	45.2	76.7	79.4	106.4	116.9	114.2	118.6	123.1
119.5°	7.7	13.8	25.5	45.2	76.7	79.3	106.2	117.0	114.2	118.5	123.0
120°	7.8	13.9	25.5	45.2	76.6	79.2	105.9	117.0	114.2	118.6	122.9
120.5°	7.9	13.9	25.4	45.2	76.6	79.0	105.7	117.0	114.2	118.6	122.8
121°	8.0	14.0	25.4	45.2	76.5	78.7	105.4	117.0	114.2	118.7	122.7
121.5°	8.1	14.1	25.4	45.2	76.5	78.3	105.0	116.9	114.2	118.8	122.7
122°	8.2	14.1	25.4	45.1	76.4	77.8	104.5	116.9	114.3	118.8	122.7
122.5°	8.3	14.2	25.5	45.1	76.3	77.3	104.0	116.9	114.3	118.9	122.7
123°	8.4	14.2	25.5	45.1	76.2	76.8	103.4	116.9	114.4	119.0	122.7
123.5°	8.5	14.3	25.5	45.1	76.0	76.3	102.8	117.0	114.6	119.1	122.7
124°	8.6	14.4	25.6	45.1	75.9	75.8	102.3	117.1	114.7	119.3	122.7
124.5°	8.7	14.4	25.7	45.1	75.7	75.3	101.7	117.2	114.8	119.4	122.7
125°	8.8	14.5	25.7	45.2	75.6	74.8	101.1	117.3	115.0	119.6	122.7
125.5°	8.9	14.6	25.8	45.3	75.6	74.4	100.6	117.5	115.3	119.8	122.7
126°	9.0	14.7	25.9	45.4	75.5	74.0	100.1	117.7	115.5	120.0	122.7
126.5°	9.1	14.8	26.0	45.6	75.5	73.7	99.6	117.9	115.8	120.1	122.7
127°	9.2	14.9	26.1	45.7	75.5	73.4	99.2	118.2	116.1	120.3	122.7
127.5°	9.3	15.0	26.2	45.9	75.6	73.2	98.7	118.4	116.4	120.5	122.7
128°	9.4	15.1	26.3	46.1	75.7	73.0	98.4	118.6	116.8	120.6	122.8
128.5°	9.4	15.2	26.4	46.3	75.7	72.8	98.0	118.9	117.1	120.8	122.8
129°	9.5	15.2	26.5	46.5	75.8	72.7	97.7	119.1	117.5	120.9	122.8
129.5°	9.6	15.3	26.6	46.7	75.9	72.6	97.3	119.3	117.8	121.1	122.7
130°	9.6	15.4	26.6	47.0	75.9	72.5	97.0	119.5	118.1	121.1	122.7
130.5°	9.7	15.5	26.7	47.2	76.0	72.4	96.7	119.6	118.5	121.1	122.6
131°	9.8	15.6	26.8	47.5	76.1	72.3	96.4	119.7	118.8	121.1	122.4
131.5°	9.8	15.6	26.9	47.8	76.2	72.3	96.0	119.6	119.1	121.0	122.2
132°	9.9	15.7	27.0	48.0	76.2	72.1	95.6	119.5	119.4	120.9	122.0
132.5°	9.9	15.8	27.1	48.3	76.2	72.0	95.3	119.4	119.6	120.7	121.6
133°	9.9	15.9	27.3	48.5	76.1	71.9	94.8	119.2	119.7	120.5	121.2
133.5°	10.0	16.0	27.4	48.8	76.0	71.7	94.3	118.9	119.8	120.3	120.8
134°	10.0	16.1	27.5	49.1	75.9	71.5	93.7	118.5	119.9	120.0	120.2
134.5°	10.1	16.2	27.6	49.3	75.7	71.2	93.1	118.0	119.8	119.7	119.6



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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	10.1	16.2	27.7	49.5	75.5	71.0	92.5	117.6	119.7	119.4	119.0
135.5°	10.2	16.3	27.9	49.7	75.2	70.6	91.9	117.0	119.5	119.0	118.3
136°	10.2	16.4	28.0	49.8	74.8	70.3	91.2	116.2	119.2	118.4	117.5
136.5°	10.2	16.4	28.1	50.0	74.4	69.8	90.4	115.4	118.8	117.8	116.6
137°	10.2	16.5	28.1	50.1	73.9	69.4	89.5	114.7	118.3	117.2	115.6
137.5°	10.3	16.6	28.2	50.2	73.3	69.0	88.7	113.7	117.6	116.5	114.6
138°	10.3	16.6	28.3	50.3	72.8	68.5	87.8	112.7	116.9	115.8	113.7
138.5°	10.3	16.6	28.3	50.3	72.1	67.9	86.8	111.5	116.1	115.0	112.8
139°	10.3	16.7	28.3	50.3	71.5	67.3	85.8	110.4	115.2	114.1	111.8
139.5°	10.3	16.7	28.3	50.2	70.6	66.7	84.7	109.1	114.2	113.1	110.9
140°	10.3	16.7	28.3	50.1	69.8	66.0	83.7	107.8	113.1	112.1	110.0
140.5°	10.3	16.7	28.3	50.0	68.9	65.2	82.5	106.3	111.9	110.9	109.0
141°	10.3	16.7	28.2	49.7	67.9	64.5	81.3	104.8	110.6	109.6	108.1
141.5°	10.3	16.6	28.1	49.5	66.9	63.7	80.0	103.2	109.2	108.3	107.1
142°	10.3	16.6	28.0	49.2	65.9	62.8	78.7	101.5	107.8	107.0	106.3
142.5°	10.3	16.5	27.9	48.8	64.8	61.8	77.2	99.8	106.2	105.4	105.4
143°	10.2	16.4	27.7	48.4	63.6	60.9	75.7	98.0	104.5	103.9	104.4
143.5°	10.2	16.4	27.6	48.0	62.4	59.9	74.2	96.1	102.8	102.4	103.5
144°	10.1	16.3	27.4	47.5	61.1	58.8	72.7	94.1	100.9	100.8	102.5
144.5°	10.1	16.2	27.2	46.9	59.8	57.7	71.1	92.1	99.0	99.1	101.4
145°	10.0	16.0	27.0	46.3	58.5	56.6	69.5	90.0	97.1	97.5	100.2
145.5°	9.9	15.9	26.8	45.6	57.1	55.4	67.8	88.0	95.1	95.9	99.1
146°	9.8	15.8	26.5	44.9	55.7	54.2	66.1	85.7	93.1	94.3	97.8
146.5°	9.7	15.6	26.2	44.2	54.3	53.0	64.4	83.5	90.9	92.6	96.4
147°	9.6	15.4	25.9	43.3	52.8	51.7	62.6	81.2	88.8	91.0	95.0
147.5°	9.5	15.2	25.6	42.4	51.4	50.4	60.8	79.0	86.7	89.4	93.5
148°	9.4	15.0	25.3	41.6	50.0	49.1	59.0	76.6	84.5	87.8	91.9
148.5°	9.2	14.8	25.0	40.6	48.4	47.8	57.2	74.2	82.4	86.1	90.4
149°	9.1	14.6	24.6	39.6	46.9	46.4	55.3	71.8	80.3	84.5	88.8
149.5°	8.9	14.4	24.2	38.5	45.4	45.1	53.4	69.4	78.2	82.8	87.1
150°	8.8	14.2	23.8	37.5	43.9	43.7	51.5	66.9	75.9	81.0	85.4
150.5°	8.6	13.9	23.3	36.4	42.4	42.4	49.6	64.5	73.6	79.2	83.7
151°	8.4	13.7	22.9	35.3	40.9	41.0	47.8	62.1	71.2	77.3	82.0
151.5°	8.2	13.4	22.4	34.1	39.4	39.6	46.0	59.7	68.9	75.4	80.3
152°	8.0	13.1	21.9	33.1	38.0	38.3	44.2	57.4	66.6	73.6	78.5
152.5°	7.8	12.8	21.4	31.9	36.5	36.9	42.4	55.0	64.2	71.7	76.6
153°	7.7	12.5	20.9	30.8	35.1	35.6	40.6	52.7	61.9	69.7	74.8
153.5°	7.5	12.2	20.3	29.6	33.7	34.3	38.8	50.4	59.4	67.8	72.9
154°	7.2	11.8	19.7	28.5	32.3	32.9	37.2	48.1	57.0	65.8	70.8
154.5°	7.0	11.4	19.1	27.3	30.9	31.6	35.5	45.9	54.5	63.8	68.9
155°	6.8	11.1	18.5	26.2	29.6	30.3	33.8	43.7	52.0	61.7	66.9
155.5°	6.6	10.7	17.8	25.0	28.3	29.1	32.2	41.5	49.5	59.4	64.9
156°	6.3	10.3	17.1	23.9	27.0	27.8	30.6	39.4	47.1	56.6	62.9
156.5°	6.1	9.9	16.4	22.8	25.7	26.6	29.1	37.3	44.6	53.9	61.0
157°	6.0	9.5	15.6	21.7	24.4	25.4	27.6	35.3	42.2	51.2	59.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.8	9.0	14.9	20.6	23.3	24.3	26.2	33.3	39.6	48.5	57.1
158°	5.8	8.6	14.1	19.6	22.1	23.2	24.8	31.4	37.2	45.8	55.1
158.5°	5.7	8.2	13.5	18.6	21.0	22.0	23.4	29.5	34.7	43.0	53.0
159°	5.6	7.7	12.8	17.6	19.9	20.9	22.1	27.7	32.2	40.2	50.2
159.5°	5.6	7.3	12.0	16.6	18.8	19.9	20.9	26.0	30.3	37.6	47.1
160°	5.6	6.9	11.3	15.7	17.8	18.8	19.6	24.2	28.4	34.9	44.0
160.5°	5.6	6.6	10.7	14.7	16.8	17.8	18.4	22.6	26.6	32.4	41.0
161°	5.5	6.3	10.0	13.7	15.8	16.8	17.4	21.1	24.8	29.9	38.0
161.5°	5.5	6.1	9.3	12.8	14.7	15.8	16.4	19.6	23.1	27.2	34.9
162°	5.5	6.0	8.7	12.0	13.7	14.8	15.3	18.3	21.4	24.6	31.9
162.5°	5.4	5.8	8.1	11.2	12.9	13.8	14.3	17.0	19.9	22.1	29.2
163°	5.4	5.7	7.5	10.4	12.1	13.0	13.2	15.7	18.5	19.7	26.4
163.5°	5.4	5.5	7.1	9.6	11.3	12.2	12.4	14.4	17.1	18.4	23.8
164°	5.3	5.4	6.7	8.9	10.5	11.4	11.6	13.1	15.7	17.0	21.5
164.5°	5.3	5.2	6.3	8.2	9.7	10.6	10.8	12.1	14.3	15.7	19.2
165°	5.3	5.2	6.0	7.6	9.1	9.9	10.1	11.1	13.0	14.3	16.9
165.5°	5.3	5.2	5.7	7.1	8.4	9.2	9.4	10.2	11.9	13.0	14.5
166°	5.3	5.2	5.5	6.6	7.8	8.6	8.8	9.4	10.9	11.9	12.3
166.5°	5.3	5.2	5.3	6.2	7.3	8.0	8.2	8.7	10.0	10.9	11.4
167°	5.3	5.3	5.2	5.9	6.8	7.5	7.7	8.0	9.1	10.1	10.7
167.5°	5.3	5.3	5.3	5.6	6.3	7.0	7.1	7.3	8.4	9.2	10.1
168°	5.3	5.3	5.3	5.3	5.9	6.5	6.7	6.8	7.7	8.5	9.6
168.5°	5.3	5.3	5.3	5.3	5.6	6.0	6.2	6.2	7.1	8.0	9.0
169°	5.3	5.2	5.2	5.2	5.3	5.6	5.8	5.7	6.5	7.7	8.6
169.5°	5.3	5.2	5.2	5.2	5.2	5.3	5.4	5.3	6.2	7.3	8.1
170°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.3	6.1	7.0	7.7
170.5°	5.2	5.1	5.2	5.2	5.2	5.2	5.2	5.3	5.9	6.7	7.4
171°	5.2	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.8	6.5	7.1
171.5°	5.2	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.7	6.3	6.8
172°	5.1	5.1	5.1	5.1	5.2	5.3	5.3	5.4	5.6	6.2	6.6
172.5°	5.1	5.1	5.1	5.1	5.2	5.3	5.3	5.4	5.6	6.0	6.4
173°	5.0	5.0	5.1	5.1	5.2	5.3	5.3	5.4	5.5	5.9	6.2
173.5°	5.0	5.0	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.8	6.1
174°	5.0	5.0	5.0	5.1	5.1	5.2	5.3	5.4	5.5	5.7	6.0
174.5°	5.0	5.0	5.0	5.1	5.1	5.3	5.4	5.4	5.5	5.7	5.9
175°	5.0	4.9	5.0	5.1	5.1	5.3	5.4	5.5	5.6	5.7	5.8
175.5°	4.9	4.9	5.0	5.0	5.1	5.2	5.4	5.5	5.6	5.6	5.8
176°	4.9	4.8	4.9	5.0	5.1	5.2	5.4	5.5	5.6	5.6	5.7
176.5°	4.8	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.6	5.6	5.7
177°	4.8	4.8	4.8	4.9	5.0	5.2	5.3	5.4	5.5	5.6	5.7
177.5°	4.7	4.7	4.8	4.9	5.0	5.2	5.3	5.4	5.5	5.6	5.7
178°	4.7	4.7	4.8	4.9	5.0	5.1	5.3	5.4	5.5	5.6	5.7
178.5°	4.7	4.6	4.7	4.8	5.0	5.1	5.2	5.4	5.5	5.7	5.8
179°	4.6	4.6	4.7	4.8	4.9	5.1	5.2	5.4	5.6	5.7	5.8
179.5°	4.6	4.6	4.7	4.8	4.9	5.1	5.2	5.4	5.6	5.7	5.8



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8

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CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	4658.2	4658.2	4658.2	4658.2
0.5°	4735.2	4744.6	4746.0	4731.1
1°	4778.0	4777.8	4772.5	4684.4
1.5°	4716.5	4683.0	4660.9	4517.0
2°	4572.1	4509.7	4473.6	4306.3
2.5°	4377.7	4315.5	4282.2	4183.1
3°	4249.0	4217.7	4211.6	4179.9
3.5°	4207.8	4215.6	4231.3	4211.4
4°	4230.8	4250.4	4246.3	4167.6
4.5°	4245.3	4212.0	4157.8	4000.5
5°	4179.9	4067.9	3973.0	3807.4
5.5°	4025.5	3873.6	3807.6	3740.4
6°	3857.2	3784.6	3793.2	3836.5
6.5°	3787.5	3837.6	3926.7	4019.1
7°	3831.8	3993.2	4103.1	4150.6
7.5°	3972.3	4146.6	4197.3	4133.7
8°	4118.4	4191.3	4151.7	4009.3
8.5°	4198.2	4116.4	4031.7	3939.5
9°	4157.6	4017.0	3993.8	4019.3
9.5°	4066.0	4003.9	4099.7	4243.6
10°	4000.8	4122.5	4333.7	4485.6
10.5°	4039.2	4338.0	4557.1	4594.4
11°	4175.2	4547.2	4635.7	4543.7
11.5°	4385.6	4631.4	4579.6	4429.8
12°	4549.4	4580.2	4470.8	4406.5
12.5°	4607.0	4480.7	4455.8	4518.9
13°	4568.2	4444.3	4563.1	4675.1
13.5°	4475.1	4520.7	4712.1	4754.0
14°	4424.0	4648.3	4791.7	4765.5
14.5°	4474.2	4749.7	4813.2	4775.7
15°	4578.7	4800.4	4835.9	4840.6
15.5°	4678.9	4821.2	4911.0	5014.8
16°	4742.1	4865.2	5066.7	5251.3
16.5°	4777.6	4974.5	5299.9	5507.9
17°	4805.0	5158.5	5550.6	5729.0
17.5°	4858.7	5400.9	5793.2	5898.4
18°	4974.5	5641.0	5973.2	6029.4
18.5°	5152.7	5843.7	6103.9	6162.6
19°	5370.2	5997.4	6232.3	6332.0
19.5°	5593.6	6117.4	6398.1	6546.2
20°	5765.5	6234.5	6604.0	6767.8
20.5°	5904.0	6398.4	6808.9	6951.9
21°	6008.7	6593.4	6979.7	7092.8
21.5°	6113.5	6778.6	7116.9	7199.5
22°	6250.4	6916.5	7219.6	7279.1



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	6412.5	7015.9	7297.6	7318.4
23°	6571.2	7101.8	7342.0	7332.9
23.5°	6703.4	7166.6	7347.2	7324.8
24°	6791.9	7212.4	7329.1	7299.8
24.5°	6837.8	7209.9	7301.2	7275.3
25°	6884.8	7186.2	7284.5	7238.1
25.5°	6938.4	7150.6	7271.1	7199.0
26°	6956.8	7131.6	7241.8	7154.1
26.5°	6955.2	7126.0	7196.1	7123.9
27°	6932.6	7105.3	7142.8	7100.9
27.5°	6890.4	7057.2	7117.8	7049.1
28°	6863.4	6985.7	7090.1	6987.2
28.5°	6844.6	6933.6	7048.1	6915.8
29°	6819.7	6918.5	6981.7	6848.5
29.5°	6784.1	6901.2	6900.1	6779.1
30°	6727.3	6843.4	6825.1	6724.8
30.5°	6663.6	6747.7	6767.2	6667.7
31°	6620.7	6669.8	6725.1	6605.7
31.5°	6588.1	6617.6	6679.1	6538.1
32°	6551.2	6585.5	6604.8	6465.1
32.5°	6483.7	6540.4	6510.6	6407.8
33°	6396.1	6470.2	6430.7	6342.6
33.5°	6329.9	6384.4	6364.3	6250.7
34°	6280.1	6306.9	6295.9	6140.6
34.5°	6230.0	6241.7	6202.0	6051.4
35°	6163.5	6191.6	6117.4	5991.6
35.5°	6082.3	6136.2	6048.1	5955.5
36°	6006.5	6070.2	5999.8	5937.0
36.5°	5945.2	6000.4	5978.7	5941.4
37°	5892.8	5948.6	5970.4	5963.7
37.5°	5851.9	5910.3	5981.6	5989.8
38°	5807.9	5895.5	6003.3	6029.5
38.5°	5760.9	5894.6	6039.0	6069.7
39°	5710.2	5899.9	6082.6	6117.2
39.5°	5664.4	5923.2	6132.2	6163.7
40°	5635.5	5955.0	6185.9	6210.1
40.5°	5617.0	5995.4	6242.3	6254.3
41°	5610.3	6038.7	6293.7	6292.2
41.5°	5609.2	6080.9	6328.1	6329.3
42°	5623.5	6114.3	6358.6	6350.3
42.5°	5640.4	6144.8	6390.4	6386.2
43°	5649.9	6167.6	6429.2	6425.2
43.5°	5665.5	6186.8	6459.5	6455.0
44°	5682.0	6211.0	6479.4	6476.0
44.5°	5694.7	6226.2	6508.9	6471.2

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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	5708.9	6238.0	6515.6	6462.1
45.5°	5721.7	6250.0	6503.0	6423.3
46°	5731.5	6253.1	6480.1	6383.5
46.5°	5733.6	6250.0	6427.5	6313.3
47°	5737.7	6227.4	6375.2	6253.6
47.5°	5733.7	6200.3	6316.7	6186.3
48°	5723.5	6147.4	6259.5	6141.5
48.5°	5713.1	6094.9	6206.1	6086.6
49°	5692.9	6037.4	6137.5	6014.5
49.5°	5669.9	5988.4	6066.3	5931.1
50°	5637.3	5926.8	5979.1	5848.4
50.5°	5609.1	5870.6	5896.4	5783.2
51°	5556.6	5806.0	5815.9	5727.9
51.5°	5504.4	5727.7	5750.7	5680.1
52°	5446.1	5651.1	5686.7	5630.9
52.5°	5392.4	5581.6	5633.9	5586.9
53°	5340.6	5519.4	5578.6	5526.2
53.5°	5285.4	5461.7	5513.0	5465.1
54°	5229.2	5398.0	5454.0	5410.2
54.5°	5164.0	5345.1	5394.1	5348.3
55°	5099.8	5286.5	5330.5	5269.2
55.5°	5040.4	5229.0	5242.9	5173.1
56°	4989.3	5153.2	5144.9	5073.3
56.5°	4933.1	5070.8	5039.3	4961.6
57°	4862.5	4976.6	4942.5	4872.1
57.5°	4783.2	4893.3	4850.5	4789.9
58°	4705.4	4792.1	4760.6	4700.9
58.5°	4631.0	4703.0	4671.0	4615.1
59°	4549.5	4610.3	4578.6	4517.6
59.5°	4457.3	4512.7	4477.6	4406.9
60°	4364.6	4411.8	4369.5	4278.0
60.5°	4271.3	4315.8	4255.9	4153.5
61°	4177.7	4205.2	4132.2	4030.2
61.5°	4088.5	4097.9	4015.8	3915.1
62°	3987.0	3984.6	3901.4	3816.5
62.5°	3890.4	3879.0	3797.6	3729.2
63°	3795.3	3777.4	3718.0	3666.5
63.5°	3697.2	3689.1	3645.2	3607.6
64°	3602.3	3598.8	3576.8	3543.2
64.5°	3516.6	3526.6	3505.6	3473.2
65°	3435.4	3455.3	3433.5	3403.7
65.5°	3354.7	3376.4	3351.2	3309.2
66°	3277.5	3292.2	3263.8	3202.5
66.5°	3200.5	3208.1	3172.9	3099.9
67°	3118.1	3115.8	3073.2	3004.3

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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	3038.3	3019.0	2975.9	2915.7
68°	2953.0	2923.5	2896.3	2836.4
68.5°	2860.4	2839.0	2820.7	2758.9
69°	2768.8	2754.0	2744.4	2687.0
69.5°	2684.2	2674.7	2668.9	2607.3
70°	2600.3	2592.7	2586.7	2518.5
70.5°	2518.2	2512.0	2501.4	2431.3
71°	2435.1	2431.9	2417.5	2346.6
71.5°	2354.2	2346.6	2331.0	2262.1
72°	2270.2	2264.6	2246.0	2186.2
72.5°	2190.0	2185.6	2165.5	2110.4
73°	2111.5	2099.5	2083.3	2027.4
73.5°	2034.1	2013.5	1999.1	1943.6
74°	1953.6	1934.3	1913.2	1861.7
74.5°	1869.1	1855.6	1826.3	1766.8
75°	1790.3	1766.4	1741.8	1674.7
75.5°	1709.4	1683.6	1657.4	1584.1
76°	1628.5	1600.8	1572.9	1493.3
76.5°	1547.7	1518.1	1488.5	1407.0
77°	1466.8	1435.3	1404.0	1325.4
77.5°	1386.2	1352.6	1317.6	1244.3
78°	1312.3	1273.6	1237.2	1167.3
78.5°	1237.4	1196.1	1157.5	1095.6
79°	1160.7	1119.6	1082.6	1026.3
79.5°	1085.6	1041.3	1011.8	955.7
80°	1009.8	971.1	947.3	896.6
80.5°	940.0	905.2	883.8	838.3
81°	874.3	845.1	827.2	783.7
81.5°	809.4	790.1	776.8	735.8
82°	751.6	737.5	726.9	689.2
82.5°	695.7	685.9	676.1	642.6
83°	644.0	641.1	631.6	596.0
83.5°	597.3	595.1	587.0	549.4
84°	554.4	548.9	541.9	502.8
84.5°	514.4	507.5	500.4	463.9
85°	477.2	470.1	461.3	426.7
85.5°	441.6	431.9	425.2	394.8
86°	408.7	398.7	393.2	365.6
86.5°	378.5	368.6	362.5	339.1
87°	350.3	340.4	335.7	315.4
87.5°	322.8	316.3	313.8	295.1
88°	299.6	294.2	293.2	276.3
88.5°	277.9	274.2	274.6	260.5
89°	259.6	257.8	259.0	246.1
89.5°	242.5	242.5	244.4	233.2

REPORT NUMBER: P973048

CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	227.7	228.9	231.3	222.3
90.5°	214.8	217.9	221.0	212.4
91°	204.4	208.1	211.4	203.9
91.5°	194.4	199.5	203.0	196.8
92°	185.0	191.8	196.4	190.4
92.5°	179.5	183.9	189.1	183.0
93°	174.1	176.5	181.7	176.2
93.5°	168.7	172.9	175.8	171.5
94°	163.2	169.3	173.1	168.1
94.5°	157.9	165.8	170.4	165.3
95°	154.8	162.2	167.7	163.1
95.5°	152.5	159.7	165.0	161.0
96°	150.1	157.5	162.3	158.5
96.5°	148.1	155.8	160.5	157.0
97°	146.5	154.2	159.0	156.0
97.5°	144.9	153.0	157.8	155.1
98°	143.8	152.0	156.8	154.1
98.5°	142.7	151.0	155.7	152.9
99°	141.6	150.0	154.7	152.1
99.5°	140.6	149.0	153.7	151.2
100°	139.8	148.0	152.6	150.0
100.5°	139.0	147.1	151.6	148.8
101°	137.3	146.1	150.5	147.6
101.5°	135.9	143.8	148.5	144.9
102°	135.6	141.9	145.7	142.7
102.5°	136.0	141.6	144.1	141.7
103°	135.8	142.2	144.0	142.1
103.5°	135.4	141.8	144.4	141.9
104°	134.9	141.0	143.8	141.4
104.5°	134.5	140.4	143.0	140.5
105°	134.1	139.7	142.1	139.6
105.5°	133.8	139.2	141.3	138.8
106°	133.5	138.6	140.5	137.9
106.5°	133.3	138.2	139.8	137.3
107°	133.1	137.8	139.4	136.8
107.5°	132.9	137.4	138.9	136.2
108°	132.5	136.9	138.3	135.6
108.5°	131.9	136.4	137.6	134.7
109°	131.3	135.7	136.8	133.7
109.5°	130.6	134.9	135.8	132.6
110°	129.9	133.9	134.9	131.4
110.5°	129.3	133.1	133.8	130.2
111°	128.6	132.3	132.7	129.1
111.5°	128.0	131.4	131.7	128.0
112°	127.4	130.6	130.7	126.9

REPORT NUMBER: P973048

CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	126.8	129.8	129.8	125.8
113°	126.2	128.9	128.8	124.8
113.5°	125.8	128.1	127.8	124.0
114°	125.4	127.3	126.9	123.2
114.5°	125.2	126.6	126.1	122.4
115°	125.0	126.0	125.3	121.7
115.5°	124.9	125.5	124.6	120.8
116°	124.8	125.2	123.9	120.0
116.5°	124.8	125.0	123.4	119.4
117°	124.7	124.8	123.0	118.9
117.5°	124.7	124.8	122.7	118.5
118°	124.7	124.7	122.5	118.3
118.5°	124.7	124.7	122.3	118.1
119°	124.7	124.7	122.2	118.0
119.5°	124.7	124.7	122.2	118.0
120°	124.5	124.7	122.2	118.1
120.5°	124.4	124.8	122.3	118.3
121°	124.4	124.8	122.4	118.5
121.5°	124.4	124.7	122.5	118.6
122°	124.3	124.7	122.5	118.7
122.5°	124.3	124.8	122.5	118.9
123°	124.3	124.8	122.5	119.1
123.5°	124.3	124.8	122.6	119.4
124°	124.2	124.8	122.7	119.6
124.5°	124.1	124.9	122.8	119.9
125°	124.2	125.0	123.0	120.1
125.5°	124.2	125.1	123.1	120.4
126°	124.3	125.2	123.3	120.7
126.5°	124.3	125.4	123.5	121.1
127°	124.4	125.5	123.6	121.1
127.5°	124.4	125.7	123.6	121.1
128°	124.5	125.9	123.6	121.2
128.5°	124.6	126.0	123.6	121.2
129°	124.7	126.1	123.6	121.2
129.5°	124.7	126.2	123.6	121.1
130°	124.7	126.3	123.6	121.1
130.5°	124.7	126.3	123.5	121.0
131°	124.6	126.3	123.4	120.8
131.5°	124.5	126.3	123.3	120.7
132°	124.4	126.1	123.2	120.6
132.5°	124.3	125.9	122.9	120.2
133°	124.1	125.7	122.6	119.8
133.5°	123.8	125.4	122.1	119.3
134°	123.5	125.1	121.7	118.6
134.5°	123.1	124.6	121.0	117.9

REPORT NUMBER: P973048

CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	122.5	124.1	120.4	117.1
135.5°	122.0	123.5	119.8	116.2
136°	121.5	122.9	119.2	115.4
136.5°	120.9	122.2	118.4	114.4
137°	120.3	121.4	117.5	113.3
137.5°	119.5	120.7	116.7	112.2
138°	118.5	119.9	115.7	111.0
138.5°	117.5	119.0	114.7	109.8
139°	115.7	118.2	113.8	108.6
139.5°	114.8	117.2	112.9	107.7
140°	114.1	116.1	112.0	106.6
140.5°	113.3	114.9	111.0	105.6
141°	112.6	113.2	109.9	104.3
141.5°	111.7	111.7	108.6	102.9
142°	110.9	111.0	107.2	101.4
142.5°	109.9	110.2	104.7	98.2
143°	108.9	109.3	103.5	97.2
143.5°	107.8	108.5	102.7	96.6
144°	106.7	107.7	101.7	95.8
144.5°	105.4	106.6	100.8	95.0
145°	104.2	105.6	99.8	94.3
145.5°	103.0	104.6	98.8	93.4
146°	101.6	103.4	97.7	92.5
146.5°	100.2	102.3	96.5	91.6
147°	98.9	101.1	95.4	90.6
147.5°	97.4	99.7	94.2	89.6
148°	95.9	98.4	93.1	88.7
148.5°	94.4	97.0	91.9	87.7
149°	92.8	95.4	90.6	86.5
149.5°	91.2	93.9	89.3	85.4
150°	89.5	92.4	88.0	84.3
150.5°	87.8	90.8	86.7	83.2
151°	86.0	89.1	85.3	81.9
151.5°	84.4	87.4	84.0	80.6
152°	82.6	85.6	82.5	79.2
152.5°	80.9	83.9	80.9	77.8
153°	79.1	82.1	79.4	76.3
153.5°	77.3	80.2	77.7	75.7
154°	75.3	78.4	76.1	74.2
154.5°	73.6	76.6	74.6	72.8
155°	71.7	74.6	73.0	71.3
155.5°	69.8	72.8	71.4	69.8
156°	67.9	70.9	69.8	68.3
156.5°	65.9	69.0	68.2	66.7
157°	63.8	67.0	66.6	65.2

REPORT NUMBER: P973048

CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	61.9	65.1	65.1	63.6
158°	59.9	63.0	63.3	61.9
158.5°	57.9	61.0	61.5	60.2
159°	56.0	59.0	59.8	58.4
159.5°	54.1	57.0	58.0	56.5
160°	52.0	55.0	56.1	54.8
160.5°	49.9	53.2	54.4	53.0
161°	47.4	51.2	52.6	51.2
161.5°	43.9	49.1	50.9	49.5
162°	40.7	47.2	49.1	47.7
162.5°	37.4	44.4	47.2	45.8
163°	33.9	40.6	45.1	43.9
163.5°	30.9	37.2	42.2	40.6
164°	27.9	33.8	38.4	37.1
164.5°	25.1	30.4	34.9	33.6
165°	22.6	27.4	31.5	30.2
165.5°	20.1	24.5	28.3	27.0
166°	17.7	21.9	25.2	24.0
166.5°	15.3	19.4	22.5	21.3
167°	12.9	16.9	19.9	18.8
167.5°	10.6	14.4	17.3	16.2
168°	10.0	11.9	14.7	13.5
168.5°	9.5	9.4	12.0	10.6
169°	9.0	9.0	9.5	8.1
169.5°	8.5	8.6	8.9	7.7
170°	8.1	8.2	8.6	7.3
170.5°	7.8	7.9	8.3	7.0
171°	7.4	7.7	8.0	6.6
171.5°	7.1	7.4	7.8	6.3
172°	6.9	7.2	7.6	6.0
172.5°	6.7	7.0	7.3	5.8
173°	6.5	6.7	7.1	5.6
173.5°	6.3	6.4	6.9	5.4
174°	6.1	6.3	6.7	5.2
174.5°	6.0	6.2	6.5	5.1
175°	6.0	6.1	6.2	4.9
175.5°	5.9	6.0	6.2	4.8
176°	5.8	6.0	6.1	4.6
176.5°	5.8	5.9	6.1	4.6
177°	5.8	5.9	6.1	4.5
177.5°	5.8	5.9	6.1	4.5
178°	5.8	6.0	6.2	4.6
178.5°	5.9	6.0	6.2	4.6
179°	5.9	6.1	6.3	4.7
179.5°	6.0	6.1	6.4	4.8



REPORT NUMBER: P973048
CATALOG NUMBER: WP-6984-100W-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
180°	4.8	4.8	4.8	4.8

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2410-249-3

Test Date: 10/24/2024

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

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

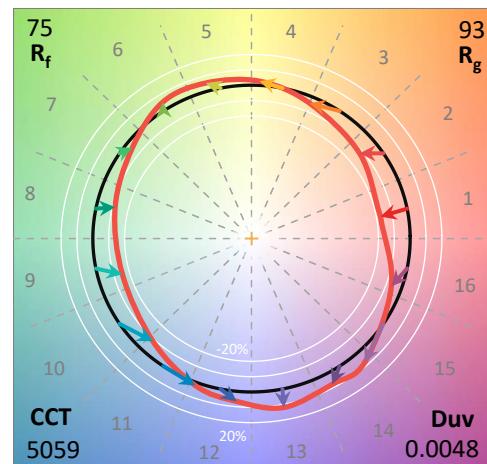
Test Information

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

Spectral Parameters

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

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



Test Conditions

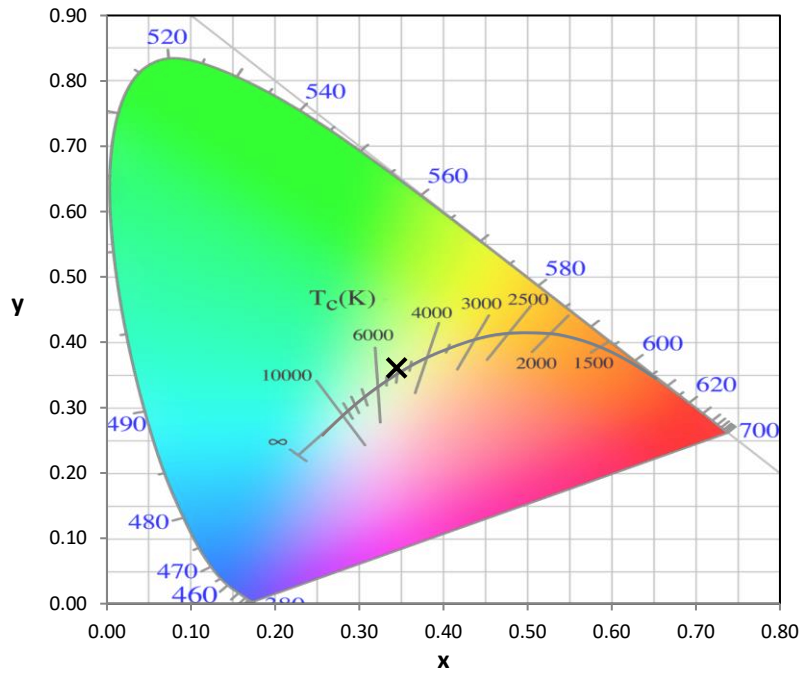
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-3

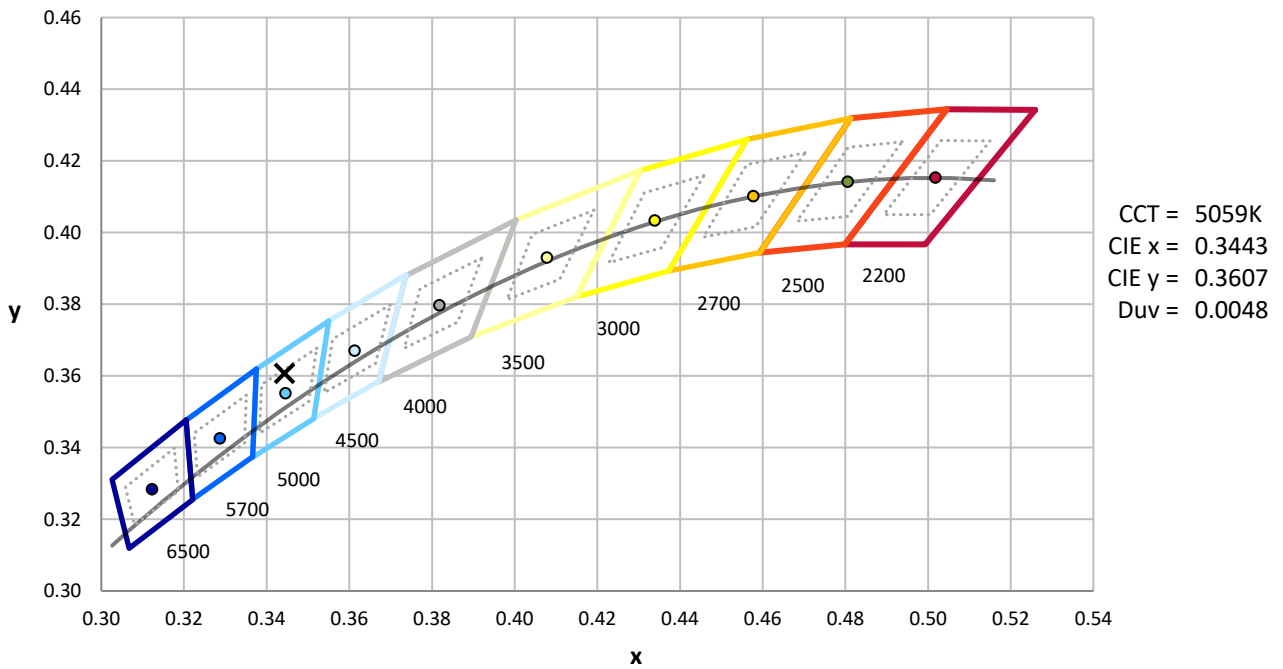
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2410-249-3

CIE 1931 Chromaticity Diagram



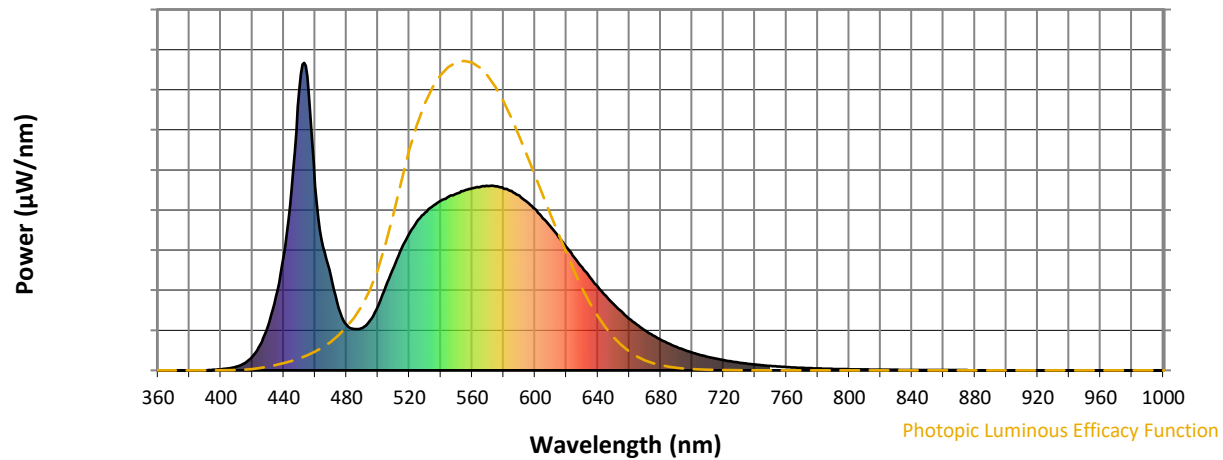
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-3

Photopic Flux vs. Wavelength

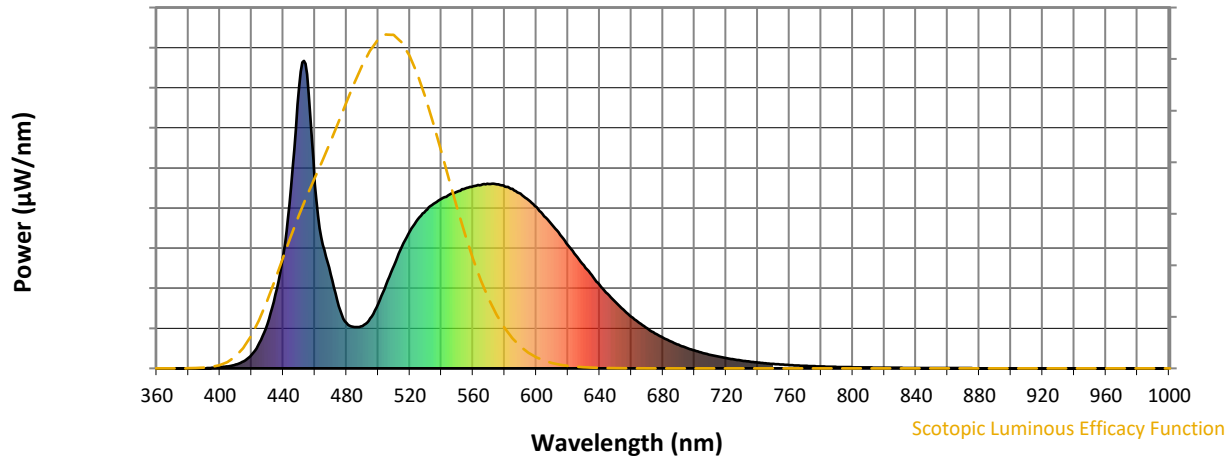


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2410-249-3

Scotopic Flux vs. Wavelength



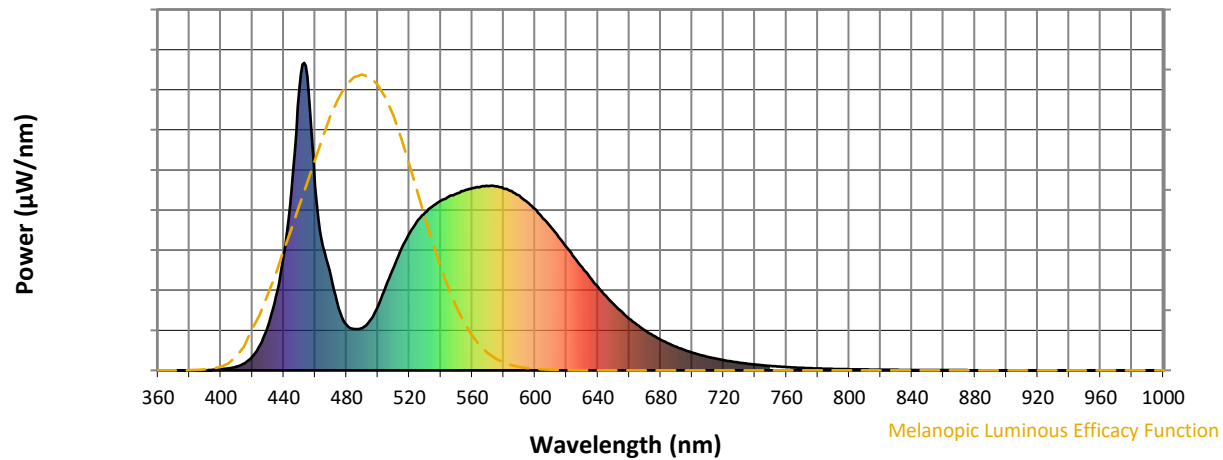
Scotopic Lumens: NR

S/P: 1.82

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

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.76

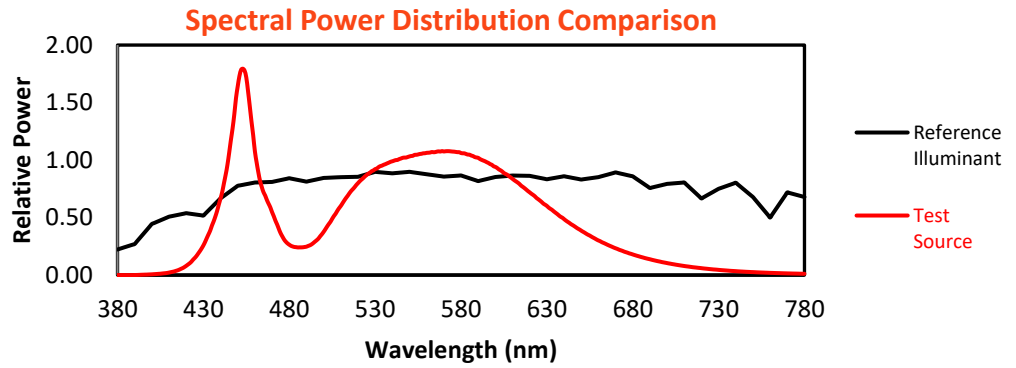
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	138	NR	620	401	NR	750	14	NR	880	1	NR
365	0	NR	495	162	NR	625	367	NR	755	12	NR	885	0	NR
370	0	NR	500	209	NR	630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

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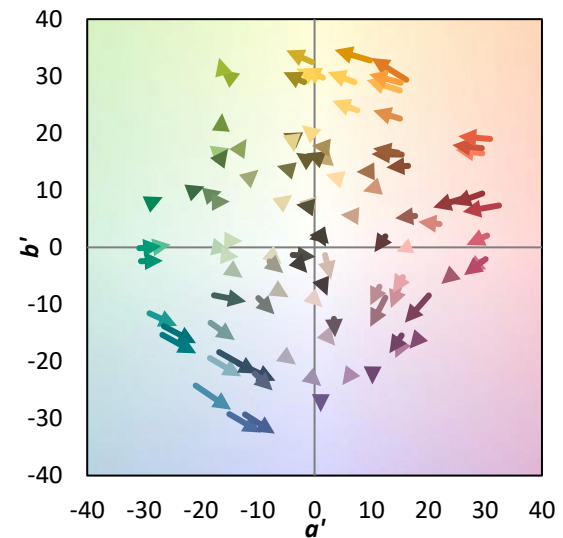
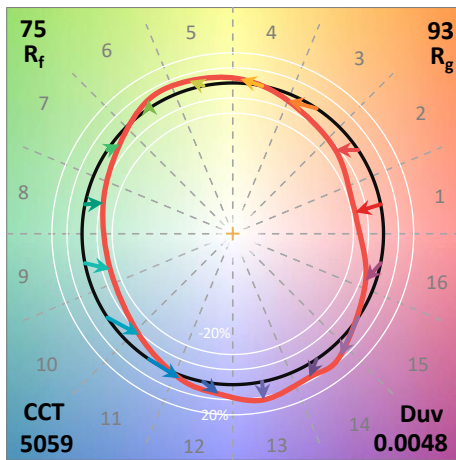
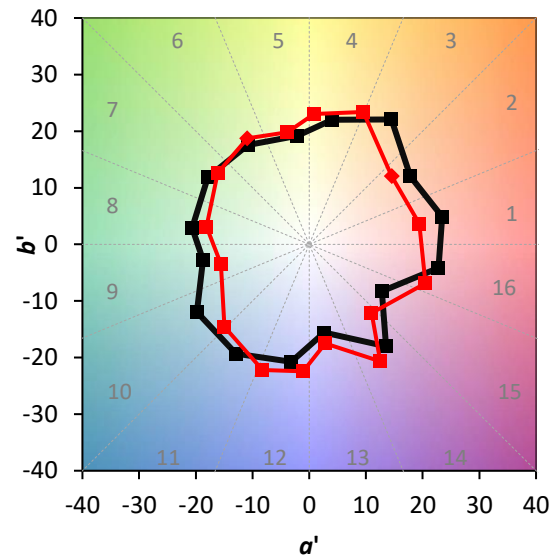
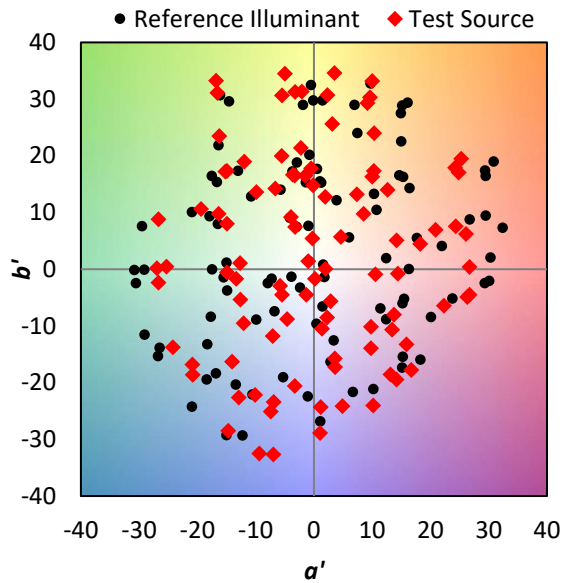
TM-30-18

Summary

$R_f = 75.2$
 $R_g = 92.6$
 $\text{CIE } R_a = 73.2$
 $R_g = -30.7$

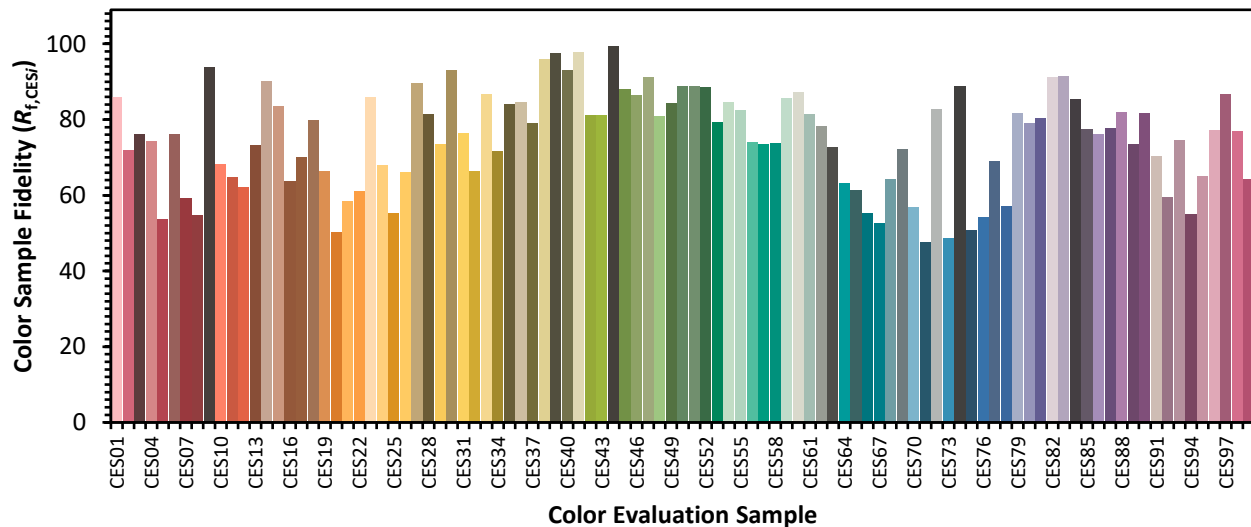


Color Vector Graphics

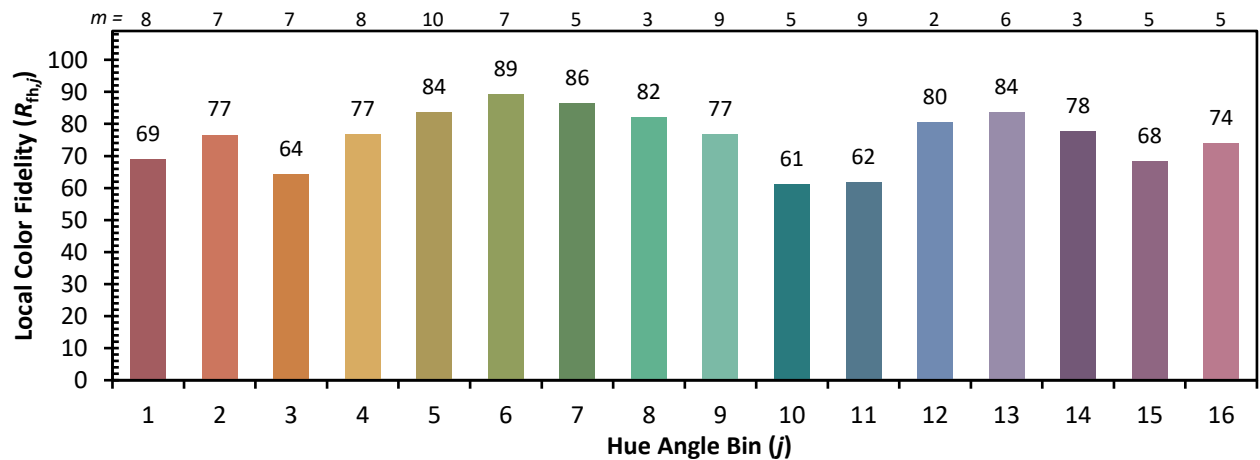
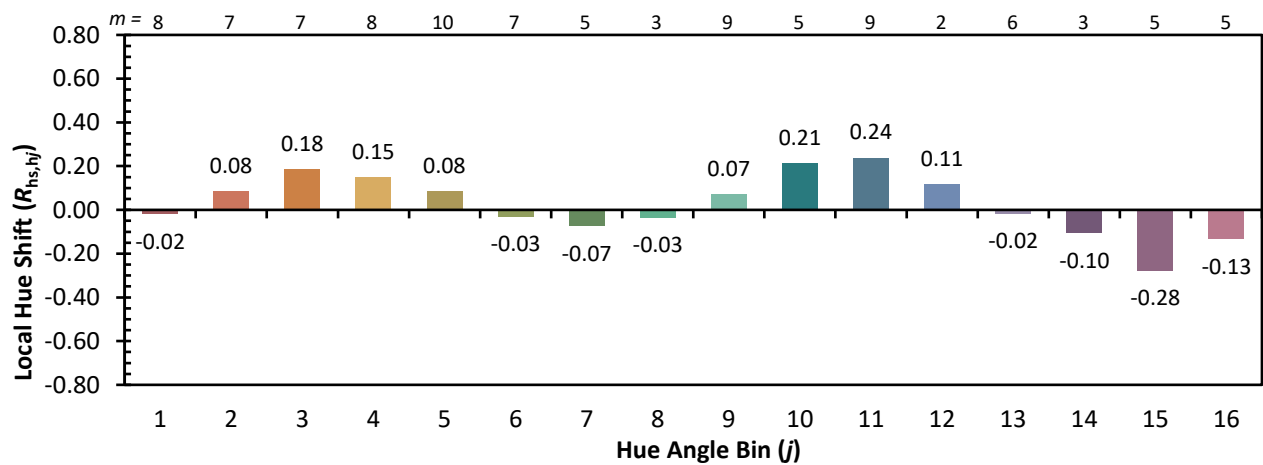
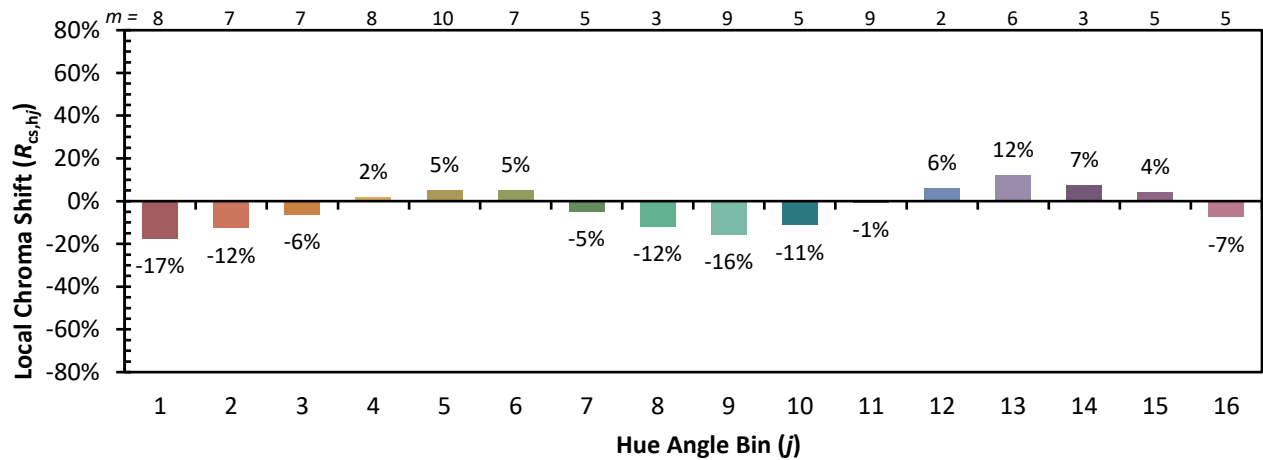


Individual Sample Fidelity Index ($R_{f,i}$)

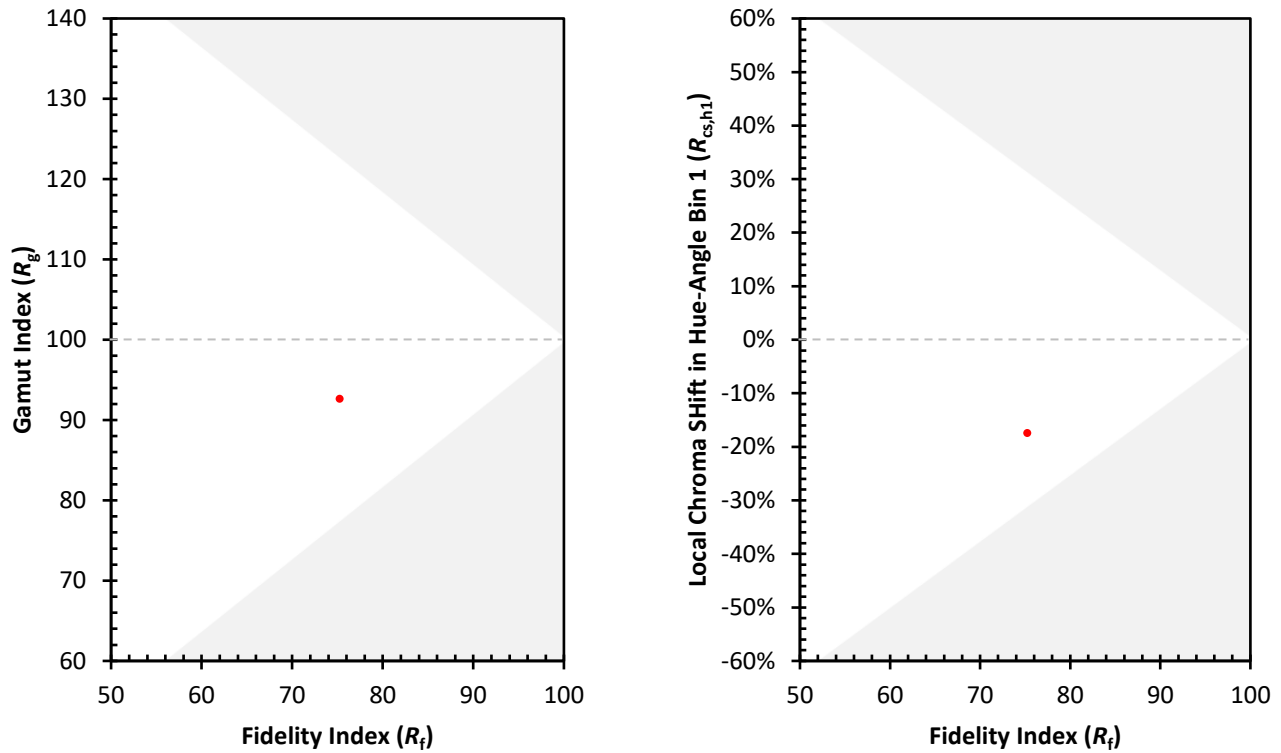
CES01 = 85	CES26 = 66	CES51 = 89	CES76 = 54
CES02 = 59	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 81	CES53 = 79	CES78 = 57
CES04 = 69	CES29 = 74	CES54 = 85	CES79 = 82
CES05 = 46	CES30 = 93	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 76	CES56 = 74	CES81 = 80
CES07 = 39	CES32 = 66	CES57 = 74	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)