

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: P973047

Luminaire Tested: **WP-6984-100W-4000K**

Issue Date: 03/12/2025



Test Information

Test Method: LM-79-08
Report Number: P973047
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 03/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WP-6984-100W-4000K
Description: LUMARK WALL PACK SQUARE LED 70CRI CCT SELECTIVE FIXTURE OPERATING @100W-4000K
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

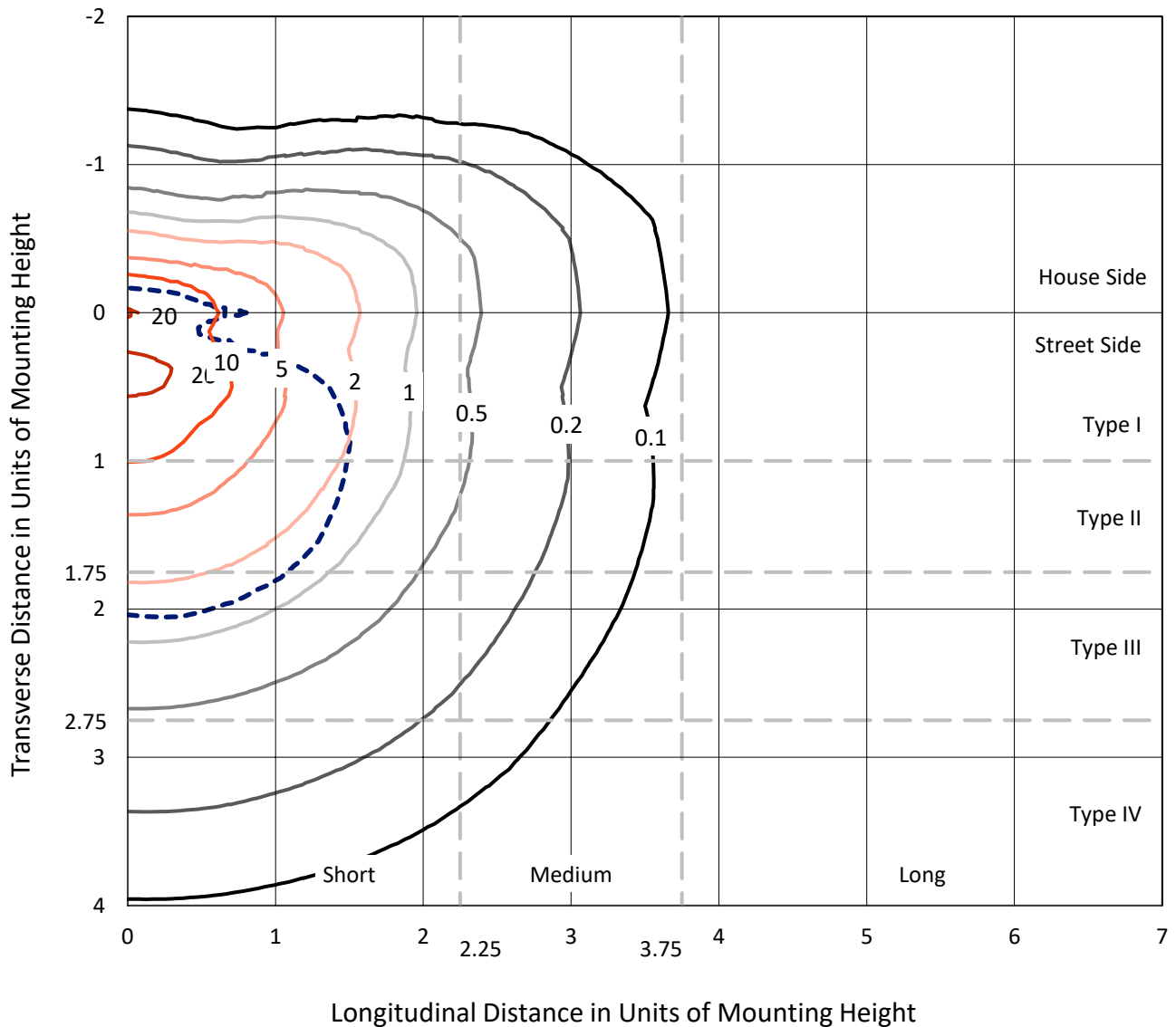
Lumens per Lamp: N/A
Luminaire Lumens: 13329.4 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.25' x H: 0.67')
IES Classification: Type III - Short
BUG Rating: B3 - U3 - G3

Input Watts (W): 94.9
Input Voltage (V): 120
Input Current (Ain): 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

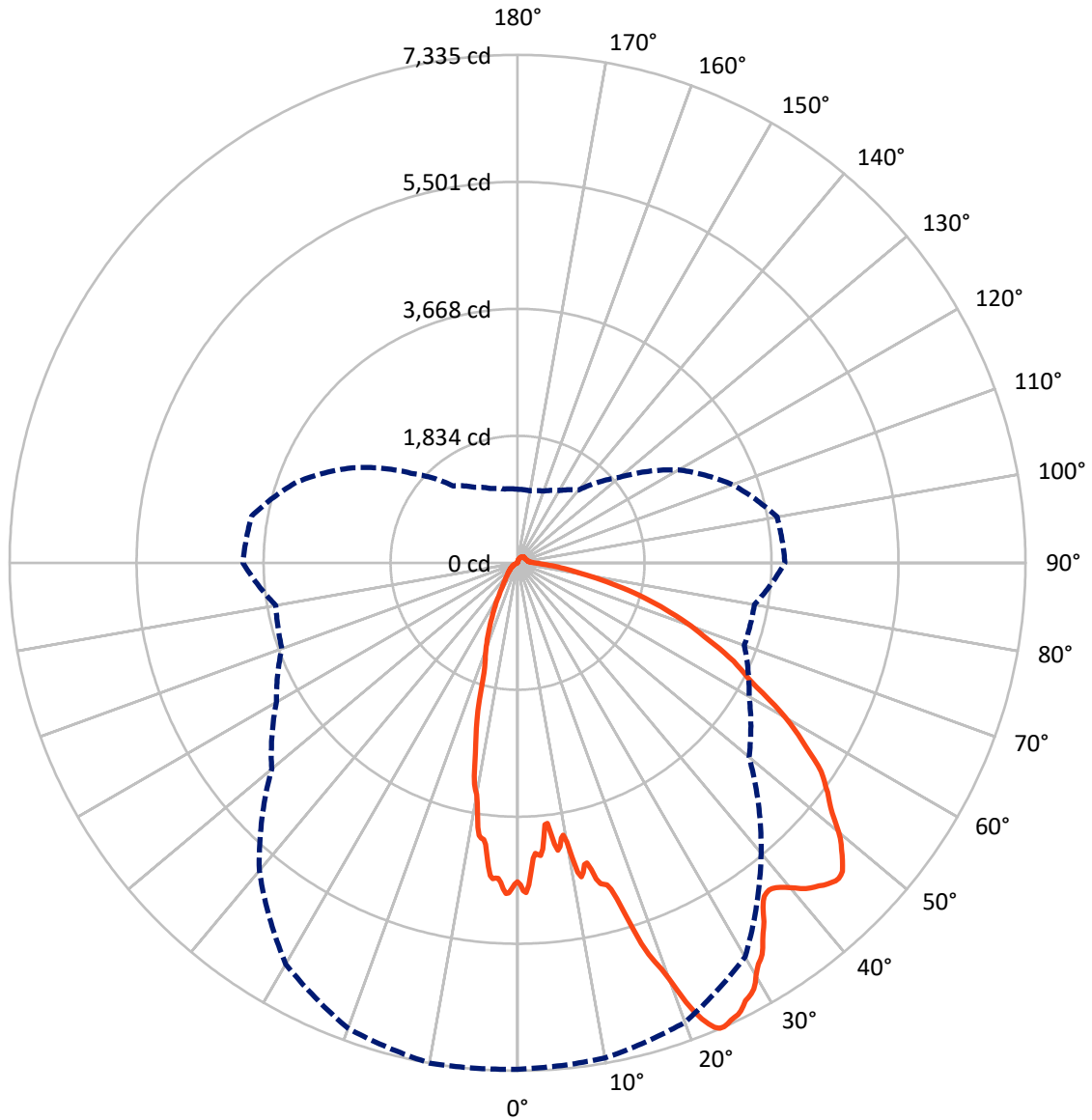
× Max cd
 - - - 1/2 Max cd



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



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

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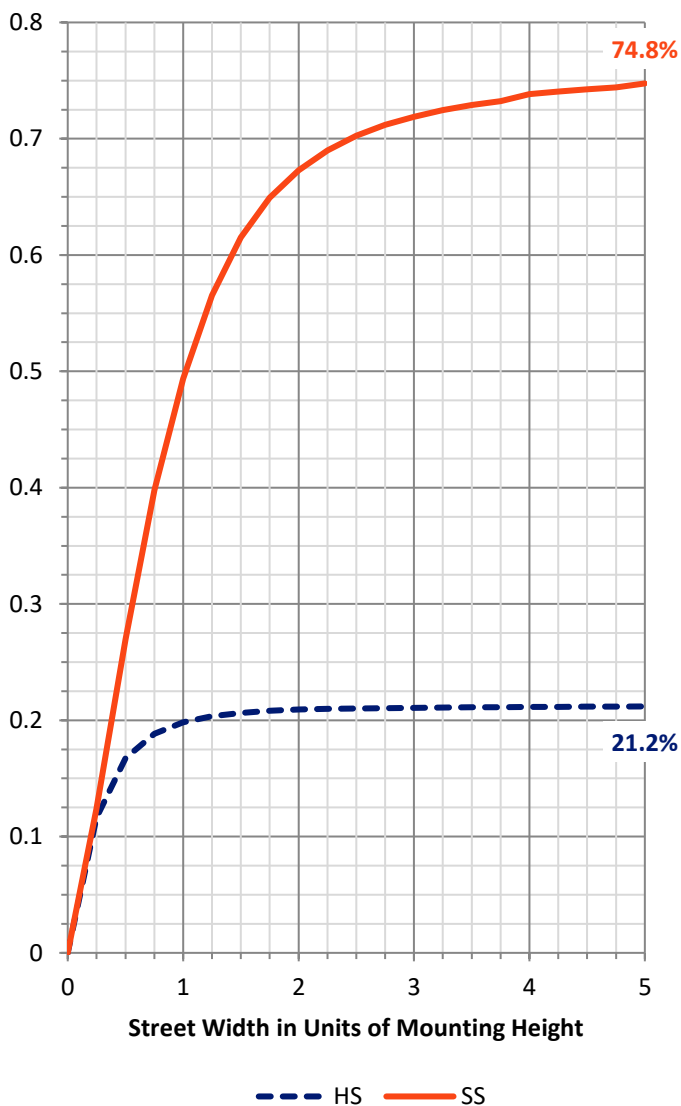
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2856.9	67.7	2924.6
	% Fixture	21.4	0.5	21.9
Street Side	Lumens	10072.6	332.2	10404.8
	% Fixture	75.6	2.5	78.1
Total	Lumens	12929.4	400.0	13329.4
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.8	3.1
10°-20°	1079.8	8.1
20°-30°	1693.6	12.7
30°-40°	2044.8	15.3
40°-50°	2329.1	17.5
50°-60°	2313.4	17.4
60°-70°	1770.9	13.3
70°-80°	986.9	7.4
80°-90°	302.2	2.3
90°-100°	89.9	0.7
100°-110°	72.8	0.5
110°-120°	66.9	0.5
120°-130°	60.3	0.5
130°-140°	52.0	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°	12929.4	97.0
0°-180°	13329.4	100.0

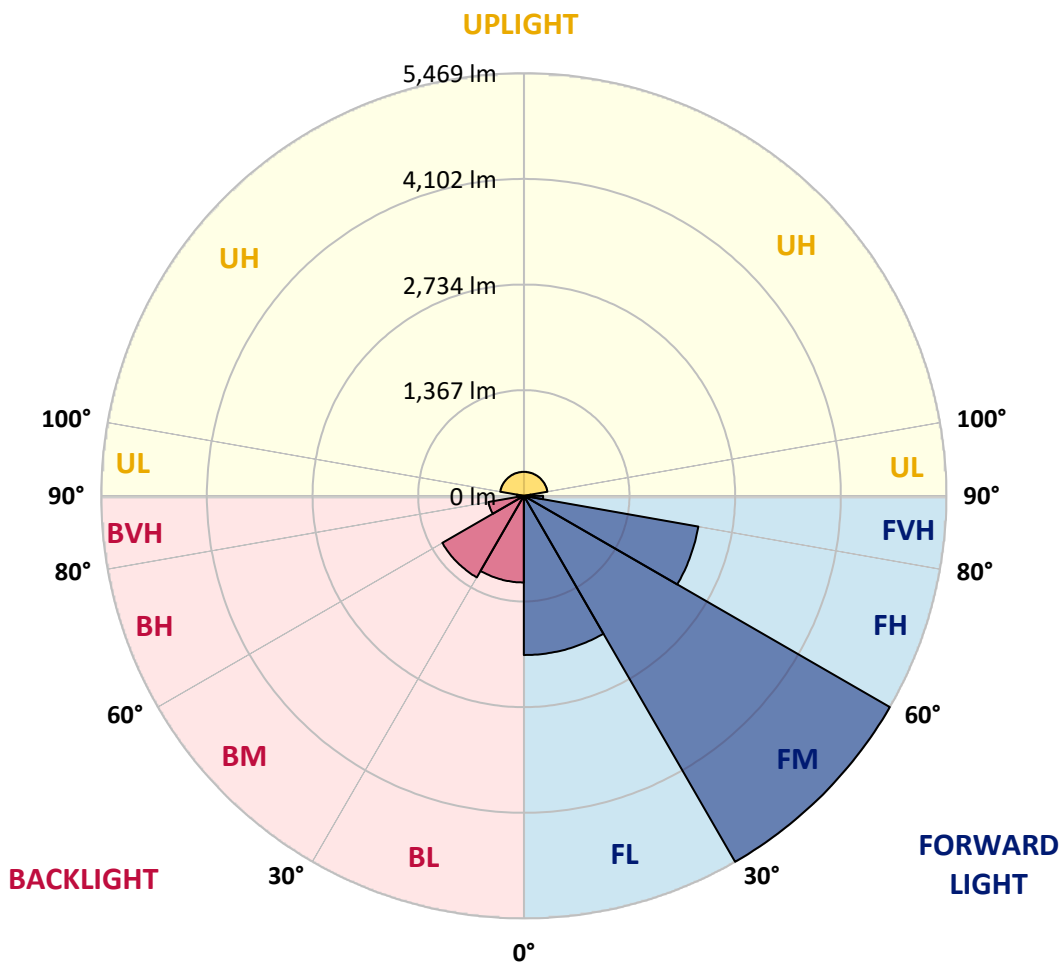


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.0	15.5			
FM (30°-60°)	5468.8	41.0			
FH (60°-80°)	2293.4	17.2			G2/5000
FVH (80°-90°)	249.4	1.9			G3/500
BL (0°-30°)	1121.2	8.4	B3/2500		
BM (30°-60°)	1218.5	9.1	B2/2500		
BH (60°-80°)	464.4	3.5	B1/500		G1/500
BVH (80°-90°)	52.8	0.4			G1/100
UL (90°-100°)	89.9	0.7		U3/500	
UH (100°-180°)	310.1	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°	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5
0.5°	4723.3	4721.4	4721.2	4722.4	4720.6	4710.8	4699.4	4685.9	4670.5	4655.5	4641.4
1°	4676.7	4681.3	4699.6	4718.5	4739.3	4744.9	4735.9	4717.1	4680.4	4650.8	4626.4
1.5°	4509.5	4523.0	4555.3	4609.8	4668.6	4716.0	4742.8	4733.2	4686.9	4641.2	4605.5
2°	4299.2	4313.7	4358.5	4434.1	4529.2	4625.9	4715.7	4739.9	4701.6	4631.8	4586.3
2.5°	4176.2	4184.7	4204.8	4260.5	4362.3	4502.4	4647.1	4725.7	4710.0	4628.3	4572.9
3°	4173.1	4165.6	4162.3	4171.8	4228.0	4364.8	4551.1	4694.5	4704.8	4616.2	4557.0
3.5°	4204.4	4196.2	4186.4	4163.7	4166.7	4243.6	4441.5	4642.6	4694.1	4601.9	4538.6
4°	4160.7	4173.8	4189.1	4184.2	4155.1	4172.7	4332.6	4578.6	4681.8	4595.3	4530.2
4.5°	3993.9	4030.2	4098.7	4173.8	4166.6	4143.3	4236.9	4507.9	4667.5	4577.3	4519.7
5°	3801.1	3829.5	3916.0	4065.3	4164.6	4136.2	4163.3	4424.6	4642.6	4560.3	4516.5
5.5°	3734.2	3733.2	3755.5	3892.8	4087.6	4147.3	4121.6	4344.8	4617.7	4542.5	4507.1
6°	3830.1	3793.7	3733.7	3750.4	3947.9	4135.3	4093.6	4264.3	4590.4	4524.5	4505.6
6.5°	4012.4	3962.3	3839.9	3725.2	3795.4	4074.4	4088.0	4189.7	4563.5	4507.8	4498.3
7°	4143.8	4121.2	4009.9	3810.0	3709.5	3968.2	4090.6	4127.3	4522.6	4490.1	4492.8
7.5°	4126.9	4139.0	4134.8	3959.1	3714.2	3829.6	4089.9	4078.8	4475.7	4465.1	4480.5
8°	4002.7	4024.4	4102.9	4092.7	3794.7	3717.1	4061.8	4039.7	4436.4	4442.9	4464.0
8.5°	3933.0	3922.2	3979.1	4112.2	3938.0	3654.6	4002.8	4012.6	4389.4	4414.7	4452.8
9°	4012.7	3947.4	3891.6	4022.1	4053.2	3652.8	3911.8	3991.1	4336.2	4397.3	4438.5
9.5°	4236.6	4150.7	3943.5	3907.6	4088.0	3724.7	3801.9	3981.0	4282.2	4384.9	4420.9
10°	4478.2	4395.0	4132.8	3869.2	4021.5	3841.5	3692.4	3975.4	4233.0	4367.4	4409.5
10.5°	4586.8	4550.7	4380.6	3963.8	3907.0	3945.4	3615.5	3971.0	4182.0	4355.8	4394.9
11°	4536.3	4542.2	4528.2	4174.9	3829.8	4007.1	3575.3	3960.9	4135.8	4349.6	4382.8
11.5°	4422.5	4436.4	4514.2	4386.2	3836.0	3995.8	3586.0	3941.3	4094.7	4338.9	4374.0
12°	4399.2	4364.8	4407.4	4499.4	3959.1	3927.9	3637.9	3906.2	4056.4	4329.4	4362.7
12.5°	4511.4	4433.2	4323.3	4475.3	4147.8	3833.1	3711.4	3847.2	4009.8	4321.1	4351.7
13°	4667.4	4586.8	4371.1	4364.1	4327.7	3766.4	3806.1	3788.1	3967.1	4306.3	4335.8
13.5°	4746.1	4691.5	4508.2	4271.1	4424.8	3760.4	3886.0	3712.3	3926.3	4285.8	4316.7
14°	4757.6	4711.6	4620.2	4296.9	4405.4	3831.9	3932.3	3640.9	3886.0	4261.9	4294.1
14.5°	4767.8	4693.5	4648.7	4417.3	4310.6	3983.4	3931.1	3572.6	3849.7	4239.9	4272.3
15°	4832.6	4720.1	4620.0	4522.7	4205.5	4150.0	3891.4	3514.0	3814.7	4223.6	4246.5
15.5°	5006.5	4851.3	4612.4	4563.6	4177.2	4290.8	3827.0	3472.4	3782.7	4201.0	4224.6
16°	5242.7	5062.1	4696.4	4533.7	4252.2	4358.4	3748.2	3449.8	3755.8	4180.6	4200.8
16.5°	5498.8	5318.2	4870.0	4494.3	4369.6	4346.3	3685.8	3451.6	3735.4	4158.9	4175.0
17°	5719.5	5552.7	5094.0	4518.9	4450.1	4272.0	3661.2	3473.5	3718.2	4137.8	4152.2
17.5°	5888.7	5719.0	5317.5	4626.2	4463.0	4175.9	3683.9	3505.5	3703.3	4118.4	4129.4
18°	6019.5	5864.0	5506.1	4807.1	4421.1	4101.6	3751.5	3553.1	3688.6	4095.6	4106.2
18.5°	6152.4	5989.0	5646.4	5011.1	4385.1	4098.0	3868.5	3609.8	3671.9	4074.8	4084.1
19°	6321.5	6124.5	5764.0	5193.8	4392.5	4161.4	3984.8	3655.9	3662.3	4051.8	4062.5
19.5°	6535.4	6307.5	5872.4	5346.3	4474.9	4250.6	4095.7	3698.3	3645.1	4027.8	4040.7
20°	6756.7	6531.2	6003.7	5466.1	4609.0	4305.7	4163.7	3716.5	3631.6	4004.9	4013.8
20.5°	6940.5	6752.0	6196.4	5586.9	4771.7	4309.9	4180.8	3716.9	3614.8	3980.4	3986.9
21°	7081.2	6916.9	6403.5	5698.3	4935.9	4272.6	4141.4	3699.0	3593.3	3960.2	3958.4
21.5°	7187.6	7059.0	6615.2	5818.0	5071.3	4224.1	4069.0	3666.0	3570.7	3938.6	3930.1
22°	7267.1	7170.3	6799.0	5978.5	5183.0	4190.3	3981.2	3616.2	3547.1	3918.0	3899.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	7306.3	7224.4	6933.9	6171.1	5284.0	4204.6	3902.9	3563.9	3524.4	3897.4	3869.8
23°	7320.9	7252.1	7021.1	6376.2	5377.1	4266.3	3856.1	3520.2	3498.9	3879.3	3838.9
23.5°	7312.8	7260.8	7062.6	6569.9	5471.9	4364.3	3861.5	3484.1	3472.6	3860.6	3806.1
24°	7287.8	7257.1	7102.7	6717.1	5566.9	4481.3	3901.8	3466.1	3443.6	3843.0	3776.2
24.5°	7263.3	7234.4	7129.9	6808.1	5682.4	4602.1	3960.8	3466.3	3411.8	3820.5	3746.3
25°	7226.2	7190.4	7131.1	6844.9	5835.2	4714.9	4007.1	3483.5	3384.0	3803.8	3716.8
25.5°	7187.1	7143.1	7097.7	6864.7	6011.6	4809.0	4027.7	3524.7	3351.2	3784.3	3689.6
26°	7142.3	7105.3	7034.0	6905.3	6183.8	4887.1	4013.5	3576.8	3325.7	3765.9	3664.7
26.5°	7112.2	7077.0	6975.7	6929.6	6331.1	4955.5	3978.7	3643.7	3301.8	3751.1	3638.5
27°	7089.2	7044.1	6944.4	6922.1	6424.7	5022.3	3938.0	3708.3	3283.8	3737.5	3613.1
27.5°	7037.5	7005.4	6914.5	6866.4	6447.4	5086.2	3911.2	3755.0	3268.0	3725.7	3590.3
28°	6975.6	6955.2	6892.7	6792.8	6441.4	5149.4	3907.3	3784.9	3253.7	3713.7	3567.2
28.5°	6904.4	6898.5	6858.0	6713.5	6442.2	5231.1	3928.7	3795.2	3244.4	3702.9	3548.1
29°	6837.2	6833.0	6812.4	6672.5	6481.5	5333.9	3975.3	3786.2	3236.0	3690.7	3530.0
29.5°	6767.9	6771.0	6760.6	6647.9	6518.9	5457.4	4039.6	3761.0	3231.3	3680.7	3514.2
30°	6713.8	6713.4	6694.4	6620.6	6509.8	5578.8	4107.8	3727.8	3232.8	3671.0	3497.3
30.5°	6656.7	6673.0	6640.2	6586.4	6449.7	5688.1	4177.4	3687.3	3235.8	3663.2	3482.0
31°	6594.8	6611.3	6600.8	6534.9	6350.5	5766.5	4247.1	3648.6	3242.4	3656.2	3466.7
31.5°	6527.3	6536.6	6570.0	6483.2	6268.8	5799.3	4303.7	3620.4	3248.4	3648.4	3453.0
32°	6454.5	6467.3	6514.2	6421.5	6221.5	5804.0	4346.9	3605.9	3256.7	3641.6	3439.7
32.5°	6397.3	6420.0	6427.2	6361.0	6202.0	5799.8	4386.5	3606.4	3265.0	3635.0	3428.8
33°	6332.2	6385.5	6350.6	6321.2	6176.1	5803.5	4419.0	3620.3	3277.4	3628.7	3416.5
33.5°	6240.4	6319.6	6301.3	6290.5	6136.1	5821.4	4455.6	3642.5	3288.1	3623.6	3401.7
34°	6130.4	6208.4	6280.5	6246.2	6090.9	5843.0	4500.6	3667.1	3298.0	3619.5	3384.7
34.5°	6041.5	6100.1	6238.5	6170.4	6049.4	5844.5	4543.8	3684.9	3303.8	3616.6	3369.5
35°	5981.8	6012.9	6151.0	6080.8	6001.4	5815.1	4589.5	3690.1	3307.8	3611.7	3356.5
35.5°	5945.7	5952.5	6030.4	6001.6	5951.2	5759.6	4645.6	3689.3	3309.7	3607.6	3344.2
36°	5927.2	5918.3	5932.8	5970.0	5893.2	5699.3	4702.5	3676.1	3305.0	3602.3	3330.0
36.5°	5931.6	5918.2	5868.1	5951.5	5845.6	5654.1	4761.6	3658.5	3299.2	3598.7	3317.2
37°	5953.9	5933.4	5826.9	5887.1	5816.9	5619.6	4814.1	3643.4	3291.6	3591.6	3304.3
37.5°	5979.9	5960.4	5805.2	5786.3	5781.5	5591.3	4857.0	3631.3	3281.5	3584.4	3292.1
38°	6019.5	5999.3	5798.3	5676.8	5737.7	5561.5	4889.6	3622.2	3270.3	3573.4	3275.9
38.5°	6059.7	6043.2	5805.3	5603.8	5669.7	5525.8	4909.7	3620.5	3256.8	3561.3	3261.4
39°	6107.2	6094.4	5818.1	5554.6	5605.8	5481.4	4915.1	3624.1	3244.1	3546.1	3244.5
39.5°	6153.6	6144.1	5848.3	5515.5	5564.6	5442.7	4915.6	3631.2	3228.7	3533.7	3226.7
40°	6199.8	6186.9	5885.7	5483.3	5547.2	5409.0	4915.7	3643.9	3215.8	3521.3	3210.5
40.5°	6244.0	6226.3	5921.5	5458.3	5521.2	5377.7	4915.9	3653.7	3206.2	3512.2	3196.8
41°	6281.9	6266.1	5954.7	5447.2	5469.3	5344.4	4913.2	3662.5	3197.3	3504.7	3184.5
41.5°	6318.9	6298.1	5985.9	5440.5	5402.1	5311.5	4906.5	3672.1	3193.2	3497.3	3172.8
42°	6339.8	6335.6	6017.7	5444.7	5340.1	5282.0	4887.2	3682.5	3189.2	3492.5	3163.4
42.5°	6375.6	6360.5	6046.7	5455.1	5294.2	5254.0	4865.1	3689.9	3188.1	3485.0	3153.2
43°	6414.7	6395.6	6085.8	5467.7	5259.1	5224.8	4834.1	3699.0	3188.3	3480.3	3144.1
43.5°	6444.3	6422.8	6117.2	5479.2	5229.2	5192.4	4798.9	3704.9	3190.9	3477.8	3138.8
44°	6465.4	6443.9	6145.4	5484.8	5201.7	5151.9	4767.4	3706.3	3195.2	3474.2	3132.7
44.5°	6460.5	6462.8	6162.3	5498.3	5182.1	5113.3	4739.4	3708.6	3202.2	3469.9	3130.5



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CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	6451.5	6452.8	6176.0	5506.3	5166.6	5083.0	4719.0	3707.4	3210.0	3465.3	3128.2
45.5°	6412.7	6448.6	6178.1	5509.5	5150.1	5052.8	4697.7	3709.8	3212.5	3461.7	3119.8
46°	6372.9	6414.1	6170.0	5510.9	5138.9	5028.2	4678.4	3715.3	3213.1	3453.4	3113.4
46.5°	6302.9	6369.9	6159.8	5506.3	5130.1	5001.4	4661.3	3721.3	3211.2	3444.5	3104.0
47°	6243.3	6302.4	6127.9	5500.3	5122.8	4965.7	4645.0	3726.1	3201.8	3435.6	3093.7
47.5°	6176.1	6238.8	6092.3	5483.7	5115.6	4921.8	4626.9	3732.7	3190.9	3424.4	3084.6
48°	6131.4	6197.6	6034.1	5457.9	5101.9	4881.0	4606.0	3734.8	3176.1	3412.3	3075.7
48.5°	6076.6	6158.0	5984.4	5433.2	5081.3	4841.3	4582.5	3733.0	3159.7	3401.0	3062.9
49°	6004.6	6104.5	5922.9	5407.4	5059.2	4801.8	4555.7	3735.5	3143.7	3389.1	3047.7
49.5°	5921.3	6037.9	5880.1	5375.9	5038.7	4761.6	4529.5	3732.7	3121.3	3374.9	3035.7
50°	5838.8	5946.4	5834.4	5339.8	5010.6	4726.5	4505.3	3733.4	3099.0	3358.9	3020.5
50.5°	5773.7	5865.2	5779.5	5296.9	4984.3	4689.8	4483.5	3733.1	3074.7	3343.8	3006.0
51°	5718.4	5781.7	5704.7	5254.0	4952.5	4647.8	4456.3	3725.4	3047.7	3325.6	2990.0
51.5°	5670.7	5717.5	5637.2	5204.6	4914.8	4604.9	4427.2	3717.4	3018.2	3305.8	2972.9
52°	5621.6	5675.5	5566.8	5158.3	4872.0	4562.9	4396.0	3707.3	2989.4	3283.9	2951.1
52.5°	5577.7	5636.9	5495.0	5110.9	4826.6	4519.1	4364.9	3693.0	2958.6	3266.0	2927.4
53°	5517.0	5590.5	5442.1	5070.3	4780.5	4469.6	4330.6	3675.3	2925.4	3241.0	2903.4
53.5°	5456.1	5521.4	5402.4	5030.9	4731.1	4419.0	4291.9	3657.8	2893.6	3212.1	2879.3
54°	5401.3	5457.1	5374.3	4976.5	4686.6	4371.3	4252.4	3635.7	2859.8	3183.1	2857.9
54.5°	5339.5	5388.5	5327.0	4929.1	4643.8	4321.3	4205.8	3612.0	2826.0	3143.3	2832.2
55°	5260.6	5312.8	5252.6	4886.5	4597.0	4274.6	4155.8	3582.2	2786.6	3102.9	2799.4
55.5°	5164.6	5220.6	5173.5	4845.1	4551.6	4225.0	4105.4	3539.7	2748.1	3064.3	2767.1
56°	5064.9	5124.8	5104.0	4805.0	4498.3	4176.4	4054.9	3491.7	2711.5	3023.7	2735.3
56.5°	4953.4	5017.0	5026.4	4760.3	4451.5	4127.5	4002.5	3440.5	2672.9	2980.7	2704.4
57°	4864.1	4911.7	4932.1	4702.4	4409.0	4083.5	3942.6	3385.8	2632.4	2936.8	2677.4
57.5°	4782.0	4828.4	4838.2	4634.9	4370.6	4037.6	3881.1	3336.3	2592.8	2890.2	2648.7
58°	4693.2	4758.5	4741.7	4559.2	4330.3	3995.0	3816.8	3287.9	2553.0	2844.7	2619.6
58.5°	4607.5	4684.4	4651.1	4479.1	4285.2	3951.1	3751.7	3237.4	2510.3	2798.1	2594.3
59°	4510.2	4602.2	4565.3	4400.1	4222.6	3903.5	3689.4	3179.4	2469.4	2754.4	2569.6
59.5°	4399.6	4504.6	4484.3	4320.3	4150.8	3854.0	3629.2	3122.6	2430.5	2706.1	2535.0
60°	4270.9	4392.1	4402.7	4249.1	4077.8	3801.2	3565.7	3066.3	2388.8	2655.4	2502.2
60.5°	4146.6	4264.7	4308.1	4176.3	4002.8	3740.1	3501.7	3008.7	2346.8	2606.6	2463.2
61°	4023.6	4141.0	4198.8	4105.7	3932.5	3678.6	3435.6	2949.0	2303.0	2557.1	2423.8
61.5°	3908.6	4019.3	4087.2	4028.2	3859.5	3618.1	3373.8	2891.2	2261.5	2512.1	2392.8
62°	3810.2	3914.5	3974.9	3948.6	3780.3	3553.5	3309.6	2831.5	2221.4	2467.1	2361.9
62.5°	3723.0	3820.2	3864.5	3852.6	3705.7	3475.9	3249.2	2770.6	2181.3	2419.1	2319.3
63°	3660.5	3736.0	3763.3	3758.9	3636.5	3401.9	3189.6	2711.6	2143.8	2370.4	2280.5
63.5°	3601.7	3664.0	3671.9	3666.5	3562.1	3327.6	3131.3	2656.6	2101.5	2322.9	2238.5
64°	3537.4	3603.4	3586.3	3573.7	3482.5	3250.0	3068.6	2600.9	2058.0	2272.6	2196.3
64.5°	3467.5	3541.9	3510.8	3485.0	3401.5	3166.0	3008.4	2549.1	2014.6	2224.6	2151.2
65°	3398.1	3471.0	3449.7	3410.1	3322.9	3085.0	2949.2	2496.1	1968.1	2174.6	2104.8
65.5°	3303.8	3377.0	3378.0	3336.2	3246.7	3002.5	2888.2	2439.1	1924.1	2125.1	2061.8
66°	3197.2	3281.3	3301.6	3264.9	3170.9	2921.3	2822.1	2379.1	1878.3	2079.6	2017.0
66.5°	3094.8	3172.7	3208.2	3197.0	3097.1	2841.1	2745.6	2321.9	1835.9	2033.2	1969.7
67°	2999.3	3064.0	3120.0	3122.5	3025.0	2767.3	2665.3	2265.3	1791.2	1987.0	1919.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	2910.9	2969.8	3026.1	3037.8	2949.5	2697.8	2582.1	2207.8	1746.3	1937.5	1878.4
68°	2831.7	2887.1	2928.5	2951.4	2873.3	2624.8	2503.7	2152.1	1702.4	1889.4	1830.4
68.5°	2754.4	2800.2	2830.2	2864.2	2798.5	2557.6	2419.1	2093.0	1659.2	1843.1	1783.9
69°	2682.6	2716.5	2740.7	2775.8	2720.4	2493.1	2337.4	2038.9	1613.2	1796.0	1734.2
69.5°	2603.0	2642.4	2654.5	2684.4	2637.7	2428.3	2254.9	1983.7	1563.5	1743.4	1682.4
70°	2514.3	2555.4	2569.8	2599.8	2554.1	2354.5	2175.7	1927.6	1515.9	1692.9	1638.4
70.5°	2427.3	2469.9	2490.0	2518.7	2472.2	2279.6	2104.1	1871.3	1466.5	1642.7	1584.1
71°	2342.8	2384.6	2407.8	2440.1	2385.9	2206.0	2029.8	1816.1	1420.1	1589.5	1533.6
71.5°	2258.4	2296.6	2319.9	2354.3	2298.4	2127.4	1958.8	1766.1	1376.3	1540.8	1480.2
72°	2182.6	2220.0	2232.0	2268.7	2216.1	2049.5	1889.9	1713.1	1332.5	1491.6	1426.2
72.5°	2106.9	2142.4	2156.2	2184.8	2136.2	1970.3	1819.0	1660.2	1288.6	1442.8	1376.8
73°	2024.1	2067.6	2082.0	2104.2	2053.5	1893.5	1751.4	1611.7	1246.4	1393.7	1326.9
73.5°	1940.4	1985.7	2002.2	2021.0	1974.7	1818.8	1687.9	1559.4	1202.3	1345.5	1276.0
74°	1858.7	1903.5	1918.3	1939.7	1897.3	1743.8	1629.9	1501.8	1156.5	1297.5	1226.2
74.5°	1763.9	1808.3	1835.1	1857.7	1819.0	1672.1	1571.9	1434.6	1113.0	1245.5	1179.3
75°	1672.0	1709.5	1745.0	1775.7	1744.6	1602.9	1515.0	1370.5	1069.9	1197.8	1132.8
75.5°	1581.5	1618.6	1658.6	1693.8	1670.3	1535.7	1454.9	1304.5	1020.1	1144.9	1084.5
76°	1490.9	1528.7	1570.6	1606.9	1594.1	1464.7	1392.8	1233.5	970.0	1092.4	1037.1
76.5°	1404.7	1441.3	1483.9	1522.8	1518.8	1395.6	1327.7	1162.5	919.1	1041.3	993.1
77°	1323.2	1359.7	1404.4	1441.8	1443.9	1329.4	1263.5	1099.1	874.3	992.3	947.1
77.5°	1242.2	1280.1	1324.5	1361.6	1365.1	1264.8	1198.0	1036.6	830.2	940.1	901.9
78°	1165.4	1199.6	1248.3	1283.0	1292.3	1197.4	1130.9	979.0	784.1	889.8	854.3
78.5°	1093.7	1126.7	1172.1	1207.9	1218.6	1131.1	1067.2	921.8	742.2	838.0	809.6
79°	1024.7	1056.5	1094.1	1134.4	1143.9	1068.1	1012.3	870.6	701.2	788.2	765.9
79.5°	954.1	985.6	1022.4	1060.6	1069.7	1005.1	958.5	819.9	660.1	740.2	736.1
80°	895.1	922.1	953.5	990.4	1000.3	942.3	903.4	773.1	619.1	694.7	692.4
80.5°	837.0	864.1	885.3	921.5	933.9	886.0	853.1	728.5	578.1	649.3	647.9
81°	782.4	804.7	824.4	854.8	870.0	830.7	801.3	684.5	537.1	603.9	603.3
81.5°	734.6	752.6	766.5	793.3	806.6	773.2	748.2	640.6	500.8	558.5	558.8
82°	688.1	704.8	715.5	736.8	745.7	714.3	698.5	596.6	465.2	513.1	515.2
82.5°	641.6	657.1	668.1	688.9	696.7	665.4	649.0	552.6	429.1	472.7	474.2
83°	595.0	609.5	620.8	641.5	648.0	616.5	599.5	510.6	392.4	432.5	436.1
83.5°	548.5	561.8	573.5	594.1	599.4	567.6	550.0	473.1	358.2	393.6	402.1
84°	502.0	514.1	526.2	546.7	550.7	518.7	500.6	436.4	325.8	354.7	367.3
84.5°	463.1	475.5	485.0	499.3	502.0	478.1	458.9	399.0	294.9	317.3	332.1
85°	426.0	438.9	447.0	459.9	463.4	441.4	419.8	365.1	265.2	281.2	298.2
85.5°	394.2	406.3	412.6	424.4	429.2	407.8	382.5	332.1	238.5	248.5	267.3
86°	365.0	375.9	381.3	392.2	397.3	377.3	350.3	301.6	214.7	217.0	238.1
86.5°	338.6	348.4	352.6	362.4	367.8	349.6	320.9	272.3	190.9	186.9	209.6
87°	314.9	324.6	327.6	334.8	340.2	324.0	295.8	245.4	168.8	160.2	183.8
87.5°	294.6	302.6	305.5	310.9	315.7	301.3	273.1	224.5	150.1	136.4	160.0
88°	275.8	281.6	285.0	288.2	292.9	280.3	251.5	204.6	134.8	115.3	138.4
88.5°	260.0	264.9	266.6	269.1	272.6	261.3	233.8	188.7	122.2	97.5	121.6
89°	245.7	249.6	250.4	252.0	253.8	244.4	218.2	174.7	111.9	83.8	108.4
89.5°	232.8	235.8	235.5	235.9	237.1	229.4	204.1	163.4	103.3	72.6	98.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	221.9	223.7	222.4	221.9	222.3	215.9	191.8	153.1	96.3	66.6	89.3
90.5°	212.1	213.8	211.7	210.5	210.0	204.6	181.0	145.1	91.0	60.5	81.9
91°	203.5	204.8	201.9	199.6	198.8	193.5	171.3	138.4	86.6	54.5	76.1
91.5°	196.5	197.7	193.8	190.3	188.2	182.9	163.4	132.6	82.9	48.5	73.4
92°	190.1	190.7	185.9	181.3	177.5	174.1	156.6	127.9	79.9	45.4	70.7
92.5°	182.7	183.5	177.7	172.2	169.4	166.8	151.0	124.0	77.5	43.4	68.1
93°	175.9	176.5	170.3	165.0	162.9	160.2	145.9	120.5	75.7	42.2	65.5
93.5°	171.2	171.6	165.2	159.9	157.1	154.4	141.6	117.6	74.7	41.4	62.9
94°	167.8	168.1	161.1	155.2	151.9	149.4	137.8	114.9	73.7	40.9	62.1
94.5°	165.0	165.2	157.8	151.4	147.3	145.0	134.3	112.4	72.7	40.7	61.5
95°	162.9	163.0	155.2	147.9	143.3	141.0	130.9	110.1	71.7	40.6	60.3
95.5°	160.7	160.9	152.8	145.4	140.1	137.7	128.3	108.0	70.7	40.5	59.8
96°	158.3	158.6	150.7	143.0	137.4	134.6	125.7	106.1	70.1	40.2	59.5
96.5°	156.8	157.0	149.1	140.9	134.8	131.9	123.1	104.3	69.7	40.5	59.3
97°	155.8	156.0	147.8	139.2	132.6	129.4	120.8	102.7	69.5	40.9	59.0
97.5°	154.9	154.9	146.8	137.8	130.7	127.0	118.5	101.3	69.6	41.3	58.6
98°	153.8	154.0	145.8	136.5	129.0	124.7	116.3	100.1	69.7	41.8	58.2
98.5°	152.6	153.0	144.9	135.2	127.3	122.8	114.6	99.2	69.9	42.3	57.7
99°	151.9	152.1	144.1	134.1	126.0	121.0	112.9	98.5	70.1	42.9	57.2
99.5°	150.9	151.1	143.2	133.1	124.8	119.4	111.5	97.8	70.4	43.4	56.7
100°	149.7	150.1	142.2	132.3	123.6	117.9	110.4	97.4	70.6	44.0	56.2
100.5°	148.5	149.0	141.5	131.2	122.4	116.7	109.3	97.0	71.0	44.5	55.8
101°	147.4	148.0	140.2	129.9	121.5	115.7	108.4	96.8	71.3	45.2	55.4
101.5°	144.7	145.7	138.4	128.9	121.1	115.0	107.8	96.6	71.7	45.8	55.1
102°	142.5	143.7	137.4	128.6	120.9	114.5	107.2	96.5	72.1	46.5	54.9
102.5°	141.4	142.9	137.4	128.8	120.7	113.9	106.6	96.4	72.6	47.2	54.9
103°	141.8	143.5	137.8	128.8	120.4	113.5	106.0	96.4	73.3	47.9	54.8
103.5°	141.7	143.6	137.7	128.7	120.1	113.0	105.5	96.3	73.9	48.6	54.9
104°	141.1	143.0	137.2	128.3	119.8	112.6	105.0	96.3	74.5	49.4	55.0
104.5°	140.2	142.2	136.8	127.9	119.5	112.2	104.5	96.2	75.1	50.1	55.2
105°	139.4	141.6	136.3	127.7	119.4	111.8	104.0	96.2	75.8	50.9	55.4
105.5°	138.6	140.9	135.8	127.4	119.3	111.5	103.7	96.1	76.4	51.6	55.7
106°	137.7	140.2	135.2	127.2	119.1	111.1	103.3	96.1	77.0	52.3	56.1
106.5°	137.0	139.5	134.8	127.0	118.8	110.7	102.9	95.9	77.5	53.0	56.5
107°	136.5	138.9	134.4	126.7	118.6	110.4	102.5	95.9	77.9	53.7	56.8
107.5°	136.0	138.3	133.8	126.2	118.3	110.0	102.0	95.8	78.4	54.3	57.2
108°	135.3	137.4	133.2	125.7	118.1	109.6	101.7	95.8	79.0	54.9	57.5
108.5°	134.4	136.5	132.5	125.2	117.7	109.2	101.4	95.8	79.6	55.5	57.9
109°	133.5	135.6	131.7	124.7	117.3	108.9	101.2	96.0	80.2	56.1	58.3
109.5°	132.4	134.5	130.9	124.2	117.0	108.6	101.0	96.3	80.9	56.7	58.6
110°	131.2	133.2	130.2	123.6	116.7	108.3	101.0	96.5	81.5	57.3	59.0
110.5°	130.0	132.2	129.4	123.0	116.4	108.0	100.7	96.8	82.0	58.0	59.3
111°	128.9	131.2	128.5	122.4	116.0	107.8	100.6	97.0	82.6	58.6	59.6
111.5°	127.8	130.1	127.7	121.9	115.6	107.6	100.5	97.3	83.1	59.1	60.0
112°	126.7	129.1	127.0	121.4	115.2	107.4	100.5	97.6	83.7	59.7	60.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	125.6	128.0	126.2	120.8	114.6	107.2	100.4	97.8	84.2	60.2	60.5
113°	124.6	127.1	125.4	120.1	114.2	107.1	100.5	98.1	84.7	60.7	60.8
113.5°	123.8	126.4	124.7	119.4	114.0	107.0	100.5	98.3	85.1	61.1	61.1
114°	123.0	125.7	123.9	118.8	113.7	106.9	100.5	98.5	85.6	61.5	61.4
114.5°	122.2	124.9	123.1	118.3	113.6	106.8	100.5	98.9	86.0	62.0	61.6
115°	121.5	124.1	122.3	117.9	113.3	106.7	100.5	99.0	86.3	62.3	61.8
115.5°	120.6	123.2	121.5	117.6	113.0	106.5	100.5	99.3	86.6	62.7	62.0
116°	119.8	122.3	120.9	117.3	112.9	106.4	100.5	99.4	87.0	63.0	62.1
116.5°	119.2	121.7	120.5	117.2	112.8	106.3	100.4	99.5	87.3	63.2	62.3
117°	118.7	121.2	120.2	116.9	112.6	106.2	100.4	99.6	87.5	63.4	62.4
117.5°	118.3	120.6	119.9	116.7	112.4	106.1	100.5	99.6	87.7	63.5	62.5
118°	118.1	120.3	119.6	116.6	112.3	106.0	100.4	99.6	87.7	63.5	62.5
118.5°	117.9	119.9	119.5	116.5	112.1	106.0	100.4	99.6	87.7	63.4	62.6
119°	117.8	119.7	119.3	116.4	112.0	105.9	100.4	99.7	87.6	63.2	62.7
119.5°	117.8	119.6	119.3	116.3	111.7	105.8	100.5	99.6	87.5	63.1	62.8
120°	117.9	119.6	119.4	116.2	111.6	105.9	100.5	99.6	87.4	62.9	62.9
120.5°	118.1	119.7	119.5	116.1	111.5	105.9	100.6	99.6	87.2	62.7	63.0
121°	118.3	119.7	119.5	116.0	111.4	105.9	100.7	99.6	87.0	62.5	63.1
121.5°	118.4	119.8	119.5	116.0	111.3	106.0	100.8	99.7	86.8	62.3	63.1
122°	118.5	119.9	119.6	115.9	111.3	106.0	101.0	99.8	86.5	61.9	63.0
122.5°	118.7	120.1	119.6	115.9	111.3	106.2	101.0	99.8	86.2	61.6	63.0
123°	118.9	120.2	119.7	115.9	111.3	106.3	101.2	99.8	85.8	61.1	62.9
123.5°	119.2	120.4	119.9	115.9	111.3	106.5	101.4	99.8	85.4	60.8	62.8
124°	119.4	120.6	120.0	115.8	111.3	106.7	101.7	99.8	85.0	60.4	62.7
124.5°	119.7	120.9	120.2	115.7	111.4	106.9	101.9	99.9	84.6	60.1	62.6
125°	119.9	121.1	120.4	115.6	111.4	107.2	102.1	100.1	84.1	59.8	62.5
125.5°	120.2	121.4	120.5	115.6	111.6	107.5	102.5	100.2	83.6	59.4	62.3
126°	120.5	121.7	120.6	115.4	111.7	107.7	102.9	100.4	83.3	59.0	62.2
126.5°	120.9	121.8	120.7	115.3	111.9	108.1	103.3	100.6	83.0	58.7	62.1
127°	120.9	122.0	120.8	115.3	112.0	108.4	103.7	100.9	82.8	58.5	62.1
127.5°	120.9	122.2	120.9	115.2	112.2	108.7	104.2	101.2	82.5	58.3	62.1
128°	121.0	122.3	121.1	115.1	112.4	109.0	104.6	101.5	82.4	58.2	62.2
128.5°	121.0	122.4	121.1	115.0	112.6	109.3	105.2	101.8	82.2	58.2	62.2
129°	121.0	122.5	121.1	114.9	112.8	109.6	105.8	102.2	82.1	58.2	62.4
129.5°	120.9	122.5	121.2	114.8	112.9	109.9	106.3	102.4	82.0	58.2	62.5
130°	120.9	122.5	121.3	114.7	113.0	110.2	106.9	102.8	81.9	58.3	62.7
130.5°	120.8	122.4	121.3	114.6	113.2	110.4	107.5	103.3	81.9	58.5	62.9
131°	120.6	122.4	121.3	114.5	113.2	110.6	108.1	103.7	82.0	58.7	63.1
131.5°	120.5	122.3	121.3	114.3	113.3	110.8	108.7	104.0	82.0	58.9	63.3
132°	120.4	122.2	121.2	114.1	113.3	111.0	109.3	104.4	82.0	59.1	63.5
132.5°	120.0	122.0	121.1	113.9	113.2	111.2	109.7	104.7	82.1	59.3	63.7
133°	119.6	121.7	120.8	113.6	113.0	111.3	110.3	105.0	82.1	59.6	63.8
133.5°	119.1	121.3	120.5	113.3	112.7	111.4	110.6	105.3	82.2	59.8	64.0
134°	118.4	120.9	120.2	112.9	112.4	111.4	111.0	105.5	82.2	60.0	64.1
134.5°	117.7	120.5	119.8	112.6	111.9	111.4	111.2	105.7	82.2	60.2	64.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	116.9	120.0	119.4	112.1	111.4	111.4	111.4	105.9	82.1	60.4	64.3
135.5°	116.0	119.4	118.9	111.9	110.9	111.3	111.5	106.0	82.1	60.5	64.4
136°	115.2	118.8	118.4	111.4	110.2	111.1	111.6	106.0	82.0	60.7	64.4
136.5°	114.2	118.1	117.7	111.1	109.6	111.0	111.6	106.0	81.9	60.8	64.4
137°	113.1	117.3	117.1	110.6	108.9	110.7	111.4	105.9	81.7	60.9	64.4
137.5°	112.0	116.3	116.3	110.0	108.1	110.4	111.2	105.8	81.5	61.1	64.4
138°	110.8	115.3	115.7	109.4	107.3	109.9	111.0	105.5	81.2	61.2	64.3
138.5°	109.6	114.4	114.9	108.0	106.4	109.3	110.6	105.1	80.9	61.2	64.1
139°	108.4	113.4	114.0	107.3	105.6	108.8	110.0	104.7	80.6	61.2	63.9
139.5°	107.5	112.4	113.0	106.8	104.8	108.1	109.5	104.3	80.1	61.2	63.6
140°	106.4	111.4	111.9	106.2	103.9	107.2	108.8	103.6	79.7	61.1	63.3
140.5°	105.5	110.2	110.4	105.6	103.2	106.4	108.0	102.9	79.1	60.9	62.9
141°	104.2	108.8	108.6	105.1	102.4	105.5	107.0	102.1	78.4	60.7	62.5
141.5°	102.7	107.4	107.6	104.5	101.6	104.4	106.0	101.1	77.7	60.5	61.9
142°	101.2	105.4	106.6	103.8	100.6	103.3	105.0	100.0	77.0	60.1	61.3
142.5°	98.0	103.9	105.7	103.1	99.7	102.0	103.8	98.9	76.1	59.7	60.7
143°	97.0	102.9	104.6	102.2	98.9	100.8	102.5	97.7	75.1	59.3	60.0
143.5°	96.4	101.8	103.7	101.4	98.0	99.4	101.1	96.3	74.1	58.8	59.2
144°	95.6	100.7	102.7	100.5	97.2	98.0	99.7	94.8	73.0	58.1	58.5
144.5°	94.8	99.7	101.6	99.5	96.3	96.7	98.2	93.3	71.8	57.5	57.6
145°	94.1	98.5	100.5	98.6	95.3	95.2	96.6	91.6	70.6	56.8	56.7
145.5°	93.2	97.3	99.3	97.5	94.4	93.7	95.0	89.9	69.3	56.0	55.7
146°	92.3	96.1	98.2	96.3	93.2	92.3	93.4	88.2	68.0	55.2	54.7
146.5°	91.5	94.9	97.0	95.1	92.0	90.8	91.6	86.2	66.6	54.3	53.6
147°	90.5	93.6	95.8	93.7	90.7	89.2	89.7	84.3	65.1	53.3	52.5
147.5°	89.5	92.4	94.5	92.5	89.6	87.8	87.9	82.2	63.6	52.4	51.4
148°	88.5	91.0	93.1	91.0	88.1	86.3	86.0	80.2	62.0	51.3	50.2
148.5°	87.5	89.6	91.7	89.7	86.7	84.7	84.2	77.9	60.4	50.2	49.0
149°	86.4	88.3	90.4	88.1	85.3	83.1	82.1	75.7	58.7	49.1	47.7
149.5°	85.3	86.8	88.9	86.6	83.7	81.5	80.0	73.6	57.0	47.9	46.5
150°	84.2	85.3	87.4	84.9	82.3	79.9	77.9	71.4	55.2	46.7	45.2
150.5°	83.0	83.8	85.9	83.3	80.6	78.1	75.8	69.3	53.5	45.4	43.8
151°	81.8	82.3	84.3	81.7	79.0	76.5	73.7	67.1	51.8	44.2	42.5
151.5°	80.4	80.7	82.4	80.0	77.3	75.5	71.6	65.0	50.0	42.9	41.2
152°	79.1	79.0	80.6	78.3	75.7	73.7	69.5	62.6	48.2	41.6	39.9
152.5°	77.7	77.4	78.8	76.6	74.0	71.8	67.4	60.2	46.4	40.2	38.5
153°	76.2	75.7	77.0	74.5	72.3	70.0	65.3	57.9	44.7	38.9	37.2
153.5°	75.6	74.2	75.4	73.0	70.6	68.2	62.9	55.5	42.9	37.6	35.9
154°	74.1	72.7	73.7	71.6	68.9	66.3	60.4	53.1	41.2	36.2	34.5
154.5°	72.6	71.2	72.0	70.1	67.3	64.3	58.0	50.9	39.5	34.9	33.2
155°	71.2	69.7	70.3	68.7	65.4	62.3	55.6	48.6	37.8	33.6	31.9
155.5°	69.7	68.3	68.6	66.9	63.4	60.0	53.2	46.3	36.1	32.3	30.6
156°	68.2	66.6	66.9	64.9	61.6	57.4	50.7	44.1	34.5	30.9	29.3
156.5°	66.6	64.9	65.0	62.9	59.7	54.9	48.3	41.9	32.9	29.6	28.1
157°	65.1	63.3	63.1	61.0	57.8	52.4	45.9	39.8	31.3	28.4	26.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	63.5	61.6	61.1	59.0	55.8	49.9	43.5	37.7	29.8	27.1	25.6
158°	61.8	59.9	59.2	57.1	54.0	47.3	41.2	35.7	28.3	25.9	24.5
158.5°	60.1	58.1	57.2	55.2	51.9	44.7	38.7	33.6	26.8	24.7	23.3
159°	58.3	56.2	55.3	53.2	49.4	42.1	36.3	31.7	25.4	23.5	22.1
159.5°	56.4	54.4	53.4	51.3	46.4	39.6	34.0	29.8	24.0	22.3	21.0
160°	54.7	52.7	51.5	49.3	43.6	37.1	32.0	28.0	22.6	21.1	20.0
160.5°	52.9	51.0	49.7	47.3	40.8	34.7	30.0	26.2	21.3	20.0	18.9
161°	51.1	49.3	47.9	45.1	38.0	32.3	28.0	24.4	20.0	18.9	17.8
161.5°	49.5	47.5	46.0	42.0	35.2	29.9	26.1	22.8	18.7	17.7	16.8
162°	47.6	45.8	44.0	38.8	32.5	27.4	24.3	21.2	17.5	16.7	15.8
162.5°	45.7	43.9	41.3	35.8	29.8	25.0	22.5	19.6	16.3	15.7	14.8
163°	43.8	41.9	38.1	32.8	27.3	22.6	20.8	18.1	15.2	14.7	13.9
163.5°	40.6	38.4	34.9	30.0	24.8	20.1	19.2	16.7	14.1	13.7	13.0
164°	37.0	35.1	31.7	27.4	22.5	18.4	17.6	15.4	13.1	12.8	12.1
164.5°	33.5	31.9	28.7	24.9	20.0	16.8	16.1	14.1	12.1	11.9	11.3
165°	30.2	28.7	25.9	22.5	17.6	15.4	14.7	12.9	11.1	11.1	10.6
165.5°	27.0	25.7	23.2	20.1	15.2	14.0	13.3	11.8	10.3	10.3	9.8
166°	24.0	23.1	20.8	17.8	12.9	12.8	12.1	10.7	9.4	9.5	9.1
166.5°	21.3	20.5	18.4	15.5	11.8	11.5	11.0	9.8	8.7	8.8	8.4
167°	18.7	18.1	16.0	13.1	11.1	10.5	9.9	8.8	7.9	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°	13.4	13.0	10.9	9.6	9.6	8.8	7.9	7.3	6.6	6.9	6.7
168.5°	10.6	10.2	8.7	9.0	8.9	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	5.0	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	6.8	7.0	6.9	6.3	5.6	4.8	4.6	4.8	5.0
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	6.2	6.2	6.2	6.0	5.7	5.2	4.7	4.7	4.9	5.1
172°	6.0	6.0	5.9	5.8	5.7	5.5	5.1	4.7	4.7	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	5.1	5.0	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	5.3	5.6
174.5°	5.0	5.0	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°	4.7	4.7	4.6	4.6	4.6	4.6	4.7	4.9	5.2	5.4	5.6
176°	4.6	4.6	4.5	4.5	4.5	4.6	4.7	4.9	5.2	5.4	5.7
176.5°	4.6	4.5	4.5	4.4	4.4	4.6	4.7	4.9	5.2	5.4	5.7
177°	4.5	4.5	4.4	4.4	4.4	4.6	4.7	4.9	5.2	5.4	5.6
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	4.5	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°	4.7	4.7	4.6	4.5	4.5	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: P973047

CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5
0.5°	4627.5	4616.1	4608.2	4605.7	4608.1	4606.5	4606.6	4575.7	4574.5	4577.3	4583.0
1°	4611.1	4601.6	4607.1	4615.5	4628.3	4637.4	4640.7	4569.4	4567.6	4566.4	4564.7
1.5°	4589.4	4597.3	4626.1	4658.9	4688.7	4705.4	4707.2	4628.7	4622.9	4614.8	4605.7
2°	4586.6	4618.5	4664.3	4709.1	4741.9	4759.7	4769.0	4697.8	4689.0	4679.4	4665.2
2.5°	4585.3	4647.3	4709.5	4750.1	4774.1	4776.9	4776.8	4731.6	4723.7	4721.4	4714.1
3°	4595.8	4673.3	4732.2	4762.5	4757.1	4731.1	4715.1	4704.9	4705.6	4719.4	4725.6
3.5°	4604.8	4694.7	4739.8	4728.5	4682.3	4637.4	4619.5	4609.4	4617.9	4641.7	4693.9
4°	4619.6	4701.2	4717.4	4651.2	4586.6	4565.4	4567.8	4534.3	4532.9	4553.4	4605.4
4.5°	4627.3	4696.8	4667.3	4567.2	4539.8	4546.0	4564.7	4516.1	4509.6	4513.2	4533.7
5°	4632.7	4675.9	4585.0	4513.7	4527.8	4558.6	4575.2	4535.8	4521.4	4508.8	4503.1
5.5°	4627.0	4638.3	4513.6	4493.1	4531.4	4543.2	4532.8	4516.3	4515.4	4515.5	4508.3
6°	4616.9	4581.1	4472.8	4488.8	4505.8	4459.2	4406.6	4419.9	4431.0	4480.0	4512.7
6.5°	4606.6	4516.3	4447.8	4473.9	4426.3	4312.4	4237.2	4260.9	4285.5	4373.8	4469.0
7°	4589.9	4459.3	4436.5	4425.4	4290.6	4147.4	4091.5	4102.9	4125.5	4217.8	4372.6
7.5°	4562.1	4417.8	4413.7	4330.1	4134.8	4028.8	4024.1	4006.7	4006.0	4067.1	4226.6
8°	4522.2	4386.7	4378.7	4208.8	4016.9	3987.1	4013.3	3989.7	3978.9	3977.2	4079.5
8.5°	4487.0	4353.2	4313.3	4074.7	3948.5	3973.2	3975.1	3972.2	3974.0	3958.6	3979.5
9°	4436.9	4326.8	4231.6	3966.0	3926.8	3923.7	3863.8	3877.1	3903.0	3944.5	3954.5
9.5°	4396.1	4298.1	4127.3	3898.8	3899.8	3804.1	3689.8	3724.2	3761.1	3875.9	3950.6
10°	4357.4	4261.8	4020.1	3861.4	3816.2	3635.3	3513.9	3531.9	3576.9	3725.1	3917.3
10.5°	4320.2	4219.8	3927.2	3834.8	3685.2	3469.0	3394.6	3397.0	3415.9	3542.2	3827.6
11°	4294.5	4165.5	3848.3	3783.4	3536.0	3355.6	3331.8	3326.2	3328.7	3388.3	3659.1
11.5°	4268.1	4104.1	3788.7	3690.1	3393.2	3289.5	3257.3	3265.8	3274.9	3308.9	3485.9
12°	4244.8	4038.8	3754.6	3574.5	3289.3	3220.3	3137.9	3155.7	3192.3	3261.9	3359.2
12.5°	4221.8	3965.2	3720.9	3454.2	3229.4	3108.7	2978.3	2998.6	3055.9	3192.5	3292.5
13°	4201.8	3897.2	3674.9	3326.1	3152.7	2957.7	2811.9	2820.9	2880.4	3067.3	3251.8
13.5°	4174.7	3837.4	3613.5	3230.4	3051.9	2799.0	2680.8	2678.9	2722.7	2902.0	3189.5
14°	4141.7	3782.8	3535.1	3162.3	2926.8	2666.2	2574.7	2573.7	2602.9	2735.1	3076.2
14.5°	4107.7	3733.3	3441.1	3088.2	2781.3	2554.9	2466.8	2476.6	2508.7	2611.4	2920.3
15°	4065.2	3691.8	3350.0	3007.0	2649.5	2454.9	2350.2	2355.6	2404.7	2518.3	2752.5
15.5°	4018.3	3652.6	3256.0	2912.4	2539.3	2345.4	2211.2	2209.6	2280.6	2427.5	2618.2
16°	3973.6	3613.9	3171.7	2798.4	2441.9	2220.1	2053.8	2054.0	2127.3	2316.9	2519.7
16.5°	3926.2	3569.5	3105.7	2678.6	2341.1	2076.7	1896.8	1898.3	1964.6	2185.1	2444.4
17°	3881.6	3514.0	3038.5	2573.9	2236.3	1932.2	1765.8	1762.2	1812.2	2018.9	2350.4
17.5°	3838.8	3456.1	2966.6	2469.4	2115.5	1790.4	1658.2	1695.9	1739.1	1862.4	2232.5
18°	3793.4	3395.7	2897.5	2370.5	1974.9	1672.6	1581.1	1629.6	1666.1	1730.9	2092.8
18.5°	3749.8	3322.9	2817.9	2279.5	1847.8	1585.2	1521.9	1563.3	1593.0	1660.4	1945.2
19°	3705.3	3257.0	2726.8	2186.1	1725.9	1517.7	1472.4	1497.1	1520.0	1589.9	1800.1
19.5°	3654.5	3184.5	2633.0	2081.1	1618.2	1462.5	1426.8	1430.9	1447.8	1519.4	1725.0
20°	3605.9	3107.1	2535.0	1976.9	1538.0	1417.6	1382.5	1386.2	1400.9	1449.5	1649.9
20.5°	3560.3	3029.7	2428.1	1858.8	1470.4	1371.0	1334.5	1341.0	1356.0	1405.6	1574.8
21°	3507.6	2965.3	2337.3	1745.4	1417.9	1327.4	1288.8	1293.7	1310.0	1362.0	1499.7
21.5°	3460.2	2896.7	2249.4	1647.9	1372.9	1284.0	1242.5	1246.5	1263.6	1316.5	1426.0
22°	3418.4	2838.5	2163.7	1554.5	1329.8	1238.3	1193.2	1198.6	1216.5	1272.6	1383.3



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CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	3373.2	2789.4	2091.2	1480.9	1287.8	1193.1	1146.5	1152.4	1169.9	1229.4	1342.1
23°	3337.3	2741.0	2013.6	1423.3	1247.4	1149.0	1102.1	1105.9	1125.4	1184.7	1301.9
23.5°	3300.5	2684.6	1920.5	1370.9	1205.3	1102.5	1055.9	1062.4	1082.4	1142.4	1262.2
24°	3266.2	2627.2	1834.2	1328.4	1162.5	1060.0	1011.7	1017.6	1036.9	1099.3	1222.5
24.5°	3229.1	2559.7	1745.6	1289.8	1123.5	1019.9	970.6	975.2	995.2	1057.3	1183.5
25°	3192.5	2479.7	1652.0	1250.9	1081.3	976.7	926.8	932.8	953.8	1017.6	1144.2
25.5°	3155.1	2402.5	1573.5	1213.1	1039.6	934.4	884.4	890.1	911.1	977.4	1104.8
26°	3116.8	2317.2	1506.6	1179.2	1003.2	896.7	846.0	849.5	870.9	938.0	1066.8
26.5°	3078.4	2238.3	1440.1	1143.2	964.6	857.3	805.1	810.9	832.0	898.9	1030.6
27°	3032.7	2170.5	1390.1	1106.6	925.6	818.5	766.6	770.8	790.7	860.5	992.6
27.5°	2985.5	2105.3	1344.8	1072.3	890.1	780.9	742.1	732.0	752.3	821.7	955.8
28°	2936.2	2045.9	1303.4	1038.1	853.9	746.9	704.4	696.0	716.2	785.6	919.0
28.5°	2886.4	1991.8	1267.2	1002.6	816.8	713.4	666.0	660.5	679.5	749.0	883.6
29°	2841.1	1938.9	1236.0	970.5	784.0	679.8	627.5	625.5	643.6	714.0	848.2
29.5°	2800.3	1886.5	1202.3	937.3	750.9	646.3	589.1	593.9	610.7	681.6	814.0
30°	2757.7	1834.7	1172.5	903.5	719.7	612.8	558.4	563.6	579.1	649.5	780.2
30.5°	2723.8	1777.7	1143.4	873.3	688.6	579.2	531.0	535.3	549.8	617.5	747.6
31°	2694.6	1721.5	1110.9	842.0	657.4	549.6	503.6	508.6	522.3	588.6	715.8
31.5°	2666.1	1673.0	1081.7	809.9	626.2	521.3	477.9	483.6	495.2	560.9	686.4
32°	2646.8	1621.2	1053.6	781.9	595.1	496.9	455.8	460.5	470.7	534.2	658.1
32.5°	2625.0	1574.9	1024.3	752.4	567.9	471.8	433.5	439.5	447.9	508.9	630.5
33°	2602.0	1536.9	999.3	725.8	541.7	448.3	412.8	419.5	426.3	485.4	604.0
33.5°	2579.6	1498.7	975.5	699.2	518.1	427.3	394.5	401.2	406.8	462.7	578.9
34°	2554.9	1466.7	948.2	672.6	495.2	407.3	377.5	384.1	387.6	440.8	554.6
34.5°	2525.6	1440.6	923.8	646.1	472.6	387.5	361.4	368.0	370.0	420.2	531.7
35°	2499.2	1417.0	901.2	619.5	452.4	370.6	347.6	353.4	354.5	401.3	509.6
35.5°	2469.8	1396.0	877.0	595.4	433.2	354.5	334.2	339.8	340.1	383.1	486.5
36°	2438.4	1380.0	855.5	571.5	413.6	339.1	321.6	327.4	326.5	366.6	465.5
36.5°	2410.2	1362.7	835.0	550.7	395.9	325.3	310.2	315.8	314.7	350.9	445.7
37°	2381.0	1346.6	812.3	529.4	379.3	312.4	299.3	304.4	303.3	336.7	425.9
37.5°	2354.4	1333.0	792.5	509.4	362.6	300.5	288.6	293.9	292.6	323.4	406.9
38°	2329.8	1316.5	773.7	491.1	347.6	289.7	278.6	283.7	282.6	311.1	389.3
38.5°	2307.7	1301.3	753.2	473.7	333.4	279.6	269.3	273.9	272.9	299.6	372.6
39°	2287.6	1288.2	735.7	456.4	319.6	269.9	260.1	265.0	263.8	289.6	357.6
39.5°	2269.7	1273.2	718.4	441.1	306.9	261.0	251.6	256.2	255.2	279.0	342.4
40°	2249.6	1257.8	701.0	425.4	295.1	252.4	243.5	248.3	247.3	269.4	328.7
40.5°	2229.2	1245.7	683.7	410.5	283.6	244.0	235.3	240.6	239.5	260.4	316.1
41°	2212.3	1230.6	666.3	397.7	273.5	236.4	228.5	233.5	232.2	251.5	304.0
41.5°	2194.2	1215.5	649.2	384.9	264.1	229.1	221.7	226.5	225.4	243.2	292.8
42°	2175.4	1202.3	633.9	371.5	254.2	221.9	215.0	219.9	218.9	235.7	282.7
42.5°	2160.1	1187.7	619.9	360.4	245.7	215.4	208.9	213.6	212.5	228.4	272.9
43°	2143.0	1174.8	604.4	349.4	238.0	209.2	202.7	207.5	206.3	221.5	263.5
43.5°	2124.6	1161.9	589.7	338.1	229.8	202.9	196.6	201.6	200.3	214.8	254.8
44°	2109.1	1148.2	576.2	327.6	222.5	197.0	190.9	195.8	194.4	208.4	246.6
44.5°	2094.3	1135.2	561.8	318.4	215.9	191.3	185.7	190.3	188.8	202.5	238.5



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	2078.1	1121.9	548.3	308.8	209.1	185.8	180.2	185.3	183.3	196.4	231.0
45.5°	2063.9	1108.1	536.0	300.0	202.9	180.5	175.3	180.3	178.1	190.4	223.7
46°	2050.7	1096.4	522.2	290.9	197.3	175.5	170.5	175.5	173.8	184.9	217.0
46.5°	2035.3	1086.3	510.4	282.5	191.5	170.7	165.7	171.2	169.4	179.2	210.3
47°	2022.1	1074.3	499.4	274.6	186.0	165.8	161.1	166.9	165.0	174.7	204.2
47.5°	2008.0	1064.4	487.9	266.9	180.9	161.1	156.7	162.5	160.6	170.1	198.2
48°	1991.6	1055.2	478.1	259.2	175.9	156.6	152.3	158.2	156.2	165.5	192.7
48.5°	1976.6	1043.7	468.1	252.5	171.1	152.3	148.0	153.6	152.0	160.9	186.8
49°	1957.6	1031.4	457.8	245.8	166.3	147.9	143.7	149.4	147.9	156.4	181.5
49.5°	1936.3	1021.1	448.7	239.3	161.7	143.6	139.2	145.1	143.6	152.1	176.4
50°	1918.9	1007.7	440.0	233.5	157.2	139.6	135.0	140.7	139.5	147.8	171.8
50.5°	1901.2	991.6	430.6	228.0	152.9	135.8	131.0	136.6	135.4	143.7	167.2
51°	1880.3	976.0	422.2	222.3	148.3	131.8	127.0	132.5	131.5	139.8	162.5
51.5°	1864.3	959.9	414.9	217.3	144.2	127.9	123.1	128.4	127.7	135.7	157.9
52°	1846.0	943.2	406.6	212.3	140.2	124.4	119.5	124.8	124.1	131.9	153.5
52.5°	1825.5	929.3	399.8	207.3	136.1	120.7	116.1	120.9	120.4	127.9	149.2
53°	1807.5	914.9	393.1	202.5	132.1	117.1	112.7	117.3	116.9	124.0	145.1
53.5°	1784.4	898.6	385.3	197.9	128.5	113.7	109.6	113.8	113.4	120.2	141.0
54°	1760.3	882.6	378.5	193.2	124.7	110.2	106.3	110.5	110.0	116.4	137.2
54.5°	1736.9	866.5	372.1	188.7	121.0	106.9	103.1	107.3	106.9	112.8	133.5
55°	1715.8	851.9	365.1	184.3	117.6	103.7	100.1	104.1	103.7	109.4	130.0
55.5°	1695.5	837.6	359.0	180.0	114.2	100.5	97.0	100.9	100.4	105.7	126.5
56°	1676.8	821.8	353.1	175.7	110.8	97.3	94.0	97.9	97.3	102.2	123.0
56.5°	1658.9	806.6	346.8	171.4	107.6	94.2	91.3	95.0	94.3	98.7	119.5
57°	1641.3	792.0	340.1	167.0	104.2	91.0	88.6	92.3	91.3	95.3	115.9
57.5°	1627.3	779.1	334.0	163.1	100.9	88.1	86.0	89.6	88.7	91.8	112.3
58°	1610.1	765.7	326.4	159.0	97.7	85.2	83.1	86.7	85.9	88.5	108.8
58.5°	1593.5	754.1	319.2	154.8	94.4	82.3	80.0	83.6	82.8	85.4	105.3
59°	1578.4	742.9	312.5	150.7	90.9	79.4	76.6	80.5	79.8	82.5	101.7
59.5°	1563.4	729.9	305.4	146.7	87.7	76.5	72.9	77.2	76.5	79.6	98.1
60°	1550.8	716.9	298.4	142.5	84.5	72.9	69.2	73.1	73.0	76.3	94.5
60.5°	1539.6	703.9	291.1	138.5	81.4	69.4	65.5	68.3	68.7	72.9	91.1
61°	1522.4	690.9	283.4	134.6	78.6	65.9	61.7	63.7	64.0	69.5	87.8
61.5°	1497.9	679.5	276.4	130.4	75.2	62.4	58.0	60.3	59.9	65.6	84.6
62°	1476.7	666.7	270.5	126.4	72.1	58.9	53.7	55.8	56.3	61.4	81.4
62.5°	1457.1	652.8	264.4	122.4	69.1	55.2	47.6	46.5	51.2	57.2	78.0
63°	1438.6	637.9	258.1	118.3	66.1	51.2	36.1	37.2	41.0	53.4	74.4
63.5°	1417.5	621.6	251.5	114.5	63.1	45.8	23.3	27.9	30.7	47.1	70.7
64°	1393.6	604.4	243.7	110.6	59.7	36.2	10.5	18.6	20.5	37.6	66.9
64.5°	1368.0	588.0	236.2	106.7	56.2	24.1	8.2	9.3	10.2	28.2	63.1
65°	1337.2	569.4	228.3	102.9	52.5	12.2	6.2	0.2	0.4	18.8	58.8
65.5°	1308.9	551.8	219.8	99.1	47.0	3.1	4.2	0.2	0.2	9.4	52.9
66°	1278.0	534.9	212.6	94.9	38.1	2.2	2.3	0.2	0.2	0.3	43.7
66.5°	1247.1	514.9	206.6	91.1	28.2	1.6	0.3	0.2	0.2	0.2	33.3
67°	1217.3	498.5	200.6	87.4	19.6	0.9	0.2	0.2	0.2	0.2	23.8



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	1181.7	482.6	194.0	83.2	15.0	0.2	0.2	0.2	0.2	0.2	20.2
68°	1145.2	464.4	187.0	77.7	14.0	0.2	0.2	0.2	0.2	0.2	19.6
68.5°	1113.3	448.8	179.4	72.5	13.6	0.2	0.2	0.2	0.2	0.2	19.2
69°	1078.7	433.7	172.4	67.4	13.2	0.2	0.2	0.2	0.2	0.2	18.8
69.5°	1043.0	417.8	165.5	62.3	12.9	0.2	0.2	0.2	0.2	0.2	18.5
70°	1006.6	402.9	157.8	57.1	12.7	0.2	0.2	0.2	0.2	0.2	18.2
70.5°	971.1	388.5	150.6	52.0	12.5	0.2	0.2	0.2	0.2	0.2	17.9
71°	933.4	373.0	143.0	50.6	12.3	0.2	0.2	0.2	0.2	0.2	17.7
71.5°	893.3	356.9	133.4	49.5	12.1	0.2	0.2	0.2	0.2	0.2	17.4
72°	855.9	341.1	124.3	48.3	12.0	0.2	0.2	0.2	0.2	0.2	17.2
72.5°	817.8	323.6	116.8	47.2	11.8	0.2	0.2	0.2	0.2	0.2	16.9
73°	781.9	306.1	111.4	46.2	11.7	0.2	0.2	0.3	0.3	0.3	16.7
73.5°	746.5	292.0	107.1	45.2	11.5	0.2	0.2	0.3	0.3	0.3	16.4
74°	717.4	278.8	103.5	44.3	11.4	0.2	0.2	0.3	0.3	0.3	16.2
74.5°	688.3	267.1	99.6	43.3	11.3	0.2	0.2	0.3	0.3	0.3	15.9
75°	659.3	258.0	96.1	42.4	11.1	0.3	0.2	0.3	0.3	0.3	15.6
75.5°	630.2	249.3	92.8	41.4	11.0	0.3	0.2	0.3	0.3	0.3	15.3
76°	601.2	240.0	89.5	40.4	10.8	0.3	0.3	0.3	0.3	0.3	15.0
76.5°	575.6	231.0	86.4	39.4	10.7	0.3	0.3	0.3	0.3	0.3	14.8
77°	551.9	223.3	83.7	38.4	10.5	0.3	0.3	0.3	0.3	0.4	14.5
77.5°	528.0	214.1	80.7	37.3	10.3	0.3	0.3	0.3	0.4	0.4	14.2
78°	503.8	205.1	77.9	36.2	10.1	0.3	0.3	0.4	0.4	0.4	13.9
78.5°	479.2	195.3	74.9	35.2	9.9	0.3	0.3	0.4	0.4	0.4	13.6
79°	454.4	186.8	72.7	34.2	9.7	0.3	0.3	0.4	0.4	0.4	13.3
79.5°	429.9	178.7	70.6	33.1	9.4	0.3	0.3	0.4	0.4	0.4	13.0
80°	408.0	171.7	68.5	32.1	9.2	0.3	0.3	0.4	0.4	0.4	12.7
80.5°	385.5	164.4	66.4	31.0	9.0	0.3	0.3	0.4	0.4	0.4	12.4
81°	363.3	157.1	64.0	29.9	8.8	0.3	0.3	0.4	0.4	0.4	12.1
81.5°	341.4	149.8	61.6	28.8	8.5	0.3	0.3	0.5	0.5	0.5	11.8
82°	319.3	141.3	58.8	27.7	8.4	0.3	0.3	0.5	0.5	0.5	11.6
82.5°	298.8	132.1	56.1	26.5	8.1	0.3	0.3	0.5	0.5	0.5	11.3
83°	278.8	123.2	53.4	25.5	7.9	0.4	0.3	0.5	0.5	0.5	11.0
83.5°	257.9	115.4	50.6	24.5	7.7	0.4	0.4	0.5	0.5	0.6	10.7
84°	235.9	107.7	47.9	23.4	7.5	0.4	0.4	0.6	0.6	0.6	10.5
84.5°	216.1	99.7	45.3	22.5	7.3	0.4	0.4	0.6	0.6	0.6	10.2
85°	198.6	92.5	42.7	21.5	7.1	0.4	0.4	0.6	0.6	0.6	9.9
85.5°	182.2	85.9	40.4	20.6	6.9	0.4	0.4	0.6	0.6	0.6	9.7
86°	166.3	79.5	38.3	19.7	6.7	0.5	0.5	0.7	0.7	0.7	9.4
86.5°	151.0	73.7	36.2	18.9	6.6	0.5	0.5	0.7	0.7	0.7	9.2
87°	137.1	69.0	34.4	18.1	6.4	0.5	0.5	0.7	0.7	0.7	8.9
87.5°	124.9	64.3	32.6	17.4	6.3	0.5	0.5	0.8	0.8	0.8	8.7
88°	113.3	59.6	31.0	16.7	6.1	0.5	0.5	0.8	0.8	0.8	8.5
88.5°	103.4	55.0	29.5	16.1	5.9	0.6	0.6	0.8	0.8	0.8	8.2
89°	94.1	51.4	28.2	15.6	5.8	0.6	0.6	0.9	0.9	0.9	7.9
89.5°	86.6	48.1	26.9	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°	79.9	45.2	25.8	14.4	5.4	0.6	0.6	0.9	0.9	1.0	7.4
90.5°	73.7	42.8	24.8	13.8	5.3	0.7	0.7	1.0	1.0	1.0	7.3
91°	70.0	40.7	23.8	13.3	5.1	0.7	0.7	1.0	1.0	1.0	7.1
91.5°	66.4	38.9	22.9	12.9	5.0	0.7	0.7	1.0	1.0	1.1	6.9
92°	62.9	37.3	22.0	12.5	4.9	0.8	0.8	1.1	1.1	1.1	6.7
92.5°	59.3	36.1	21.4	12.2	4.8	0.8	0.8	1.1	1.1	1.1	6.6
93°	57.1	35.0	20.8	11.9	4.6	0.8	0.8	1.2	1.2	1.2	6.4
93.5°	55.2	34.2	20.4	11.6	4.5	0.8	0.8	1.2	1.2	1.2	6.2
94°	53.6	33.8	20.0	11.3	4.4	0.9	0.9	1.2	1.2	1.2	6.1
94.5°	52.5	33.4	19.6	11.0	4.3	0.9	0.9	1.3	1.3	1.3	6.0
95°	51.8	33.0	19.2	10.8	4.2	0.9	0.9	1.3	1.3	1.3	5.9
95.5°	51.2	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	10.4	4.0	1.0	1.0	1.4	1.4	1.4	5.7
96.5°	50.1	31.8	18.1	10.3	3.9	1.0	1.0	1.4	1.4	1.4	5.6
97°	49.6	31.4	17.8	10.1	3.9	1.0	1.1	1.5	1.5	1.5	5.5
97.5°	49.0	31.1	17.6	9.9	3.8	1.1	1.1	1.5	1.5	1.5	5.4
98°	48.3	30.7	17.3	9.8	3.7	1.1	1.1	1.6	1.6	1.6	5.3
98.5°	47.5	30.3	17.0	9.6	3.7	1.1	1.2	1.6	1.6	1.6	5.2
99°	46.8	29.8	16.8	9.5	3.6	1.2	1.2	1.7	1.7	1.6	5.1
99.5°	46.0	29.3	16.5	9.4	3.5	1.2	1.2	1.7	1.7	1.7	5.1
100°	45.3	28.8	16.3	9.3	3.5	1.2	1.3	1.7	1.7	1.7	5.0
100.5°	44.6	28.3	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	3.4	1.3	1.3	1.8	1.8	1.8	4.8
101.5°	43.3	27.3	15.7	8.9	3.4	1.3	1.4	1.9	1.9	1.9	4.8
102°	42.7	26.9	15.6	8.8	3.4	1.4	1.4	1.9	1.9	1.9	4.7
102.5°	42.1	26.5	15.4	8.7	3.3	1.4	1.4	2.0	2.0	1.9	4.6
103°	41.6	26.1	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°	40.9	25.5	15.0	8.5	3.3	1.5	1.6	2.1	2.1	2.1	4.3
104.5°	40.7	25.2	14.9	8.5	3.3	1.6	1.6	2.2	2.2	2.1	4.3
105°	40.5	25.1	14.7	8.4	3.2	1.6	1.6	2.2	2.2	2.2	4.3
105.5°	40.3	24.9	14.6	8.3	3.2	1.6	1.7	2.3	2.3	2.3	4.2
106°	40.2	24.8	14.4	8.2	3.2	1.7	1.7	2.4	2.3	2.3	4.2
106.5°	40.2	24.7	14.3	8.1	3.2	1.7	1.8	2.4	2.4	2.4	4.2
107°	40.1	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	14.0	7.8	3.1	1.8	1.9	2.5	2.5	2.5	4.2
108°	40.2	24.6	13.9	7.7	3.1	1.9	1.9	2.6	2.6	2.5	4.2
108.5°	40.2	24.6	13.8	7.6	3.1	1.9	1.9	2.6	2.6	2.6	4.2
109°	40.3	24.6	13.8	7.5	3.1	1.9	2.0	2.7	2.6	2.6	4.2
109.5°	40.3	24.6	13.7	7.4	3.2	2.0	2.0	2.7	2.7	2.6	4.3
110°	40.3	24.6	13.7	7.4	3.2	2.0	2.1	2.8	2.7	2.7	4.3
110.5°	40.4	24.5	13.7	7.3	3.2	2.1	2.1	2.8	2.8	2.7	4.3
111°	40.4	24.5	13.7	7.2	3.3	2.1	2.2	2.8	2.8	2.8	4.3
111.5°	40.4	24.4	13.8	7.2	3.3	2.2	2.2	2.9	2.8	2.8	4.3
112°	40.5	24.4	13.8	7.1	3.4	2.2	2.3	2.9	2.9	2.8	4.3



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	40.5	24.3	13.8	7.2	3.4	2.3	2.3	3.0	2.9	2.9	4.3
113°	40.6	24.3	13.8	7.2	3.5	2.4	2.4	3.0	3.0	2.9	4.4
113.5°	40.6	24.2	13.8	7.2	3.5	2.4	2.5	3.0	3.0	2.9	4.4
114°	40.6	24.1	13.8	7.2	3.6	2.5	2.5	3.1	3.0	3.0	4.4
114.5°	40.6	24.1	13.8	7.2	3.6	2.5	2.6	3.1	3.1	3.0	4.4
115°	40.6	24.0	13.7	7.3	3.7	2.6	2.6	3.1	3.1	3.0	4.4
115.5°	40.6	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°	40.7	23.9	13.6	7.6	3.9	2.8	2.8	3.3	3.2	3.2	4.5
117°	40.8	23.9	13.5	7.7	4.0	2.8	2.9	3.3	3.2	3.2	4.6
117.5°	40.9	23.8	13.5	7.8	4.1	2.9	2.9	3.3	3.3	3.2	4.6
118°	41.0	23.8	13.5	7.9	4.2	3.0	3.0	3.4	3.3	3.3	4.6
118.5°	41.1	23.7	13.5	8.0	4.3	3.1	3.1	3.4	3.4	3.3	4.7
119°	41.1	23.7	13.5	8.1	4.3	3.1	3.2	3.4	3.4	3.4	4.7
119.5°	41.2	23.7	13.5	8.2	4.4	3.2	3.2	3.5	3.4	3.4	4.7
120°	41.2	23.6	13.5	8.3	4.5	3.3	3.3	3.5	3.5	3.4	4.8
120.5°	41.3	23.6	13.5	8.3	4.6	3.4	3.4	3.6	3.5	3.5	4.8
121°	41.3	23.6	13.6	8.4	4.6	3.4	3.5	3.6	3.6	3.5	4.8
121.5°	41.3	23.6	13.6	8.5	4.7	3.5	3.5	3.7	3.6	3.6	4.9
122°	41.4	23.6	13.7	8.6	4.7	3.6	3.6	3.7	3.7	3.6	4.9
122.5°	41.4	23.7	13.7	8.7	4.8	3.6	3.7	3.8	3.7	3.7	5.0
123°	41.4	23.7	13.8	8.7	4.8	3.7	3.7	3.8	3.8	3.7	5.0
123.5°	41.4	23.8	13.9	8.8	4.9	3.8	3.8	3.8	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	5.1
124.5°	41.5	24.0	14.0	8.9	5.0	3.9	3.9	3.9	3.9	3.9	5.2
125°	41.6	24.1	14.1	9.0	5.0	3.9	4.0	4.0	4.0	3.9	5.3
125.5°	41.7	24.2	14.2	9.0	5.0	4.0	4.1	4.1	4.0	4.0	5.4
126°	41.9	24.4	14.3	9.1	5.1	4.1	4.1	4.1	4.1	4.0	5.5
126.5°	42.1	24.5	14.4	9.1	5.1	4.1	4.2	4.2	4.2	4.1	5.6
127°	42.3	24.7	14.6	9.2	5.1	4.2	4.2	4.3	4.2	4.2	5.6
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°	42.8	25.0	14.8	9.3	5.2	4.3	4.3	4.4	4.4	4.3	5.8
128.5°	43.2	25.2	14.9	9.3	5.3	4.4	4.4	4.5	4.5	4.4	5.9
129°	43.5	25.4	15.0	9.3	5.3	4.4	4.5	4.6	4.5	4.5	5.9
129.5°	43.8	25.6	15.1	9.4	5.3	4.5	4.5	4.7	4.6	4.5	6.0
130°	44.1	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°	44.8	26.2	15.4	9.5	5.4	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	4.9	4.9	4.8	6.1
132°	45.5	26.6	15.6	9.5	5.5	4.7	4.8	5.0	5.0	4.9	6.2
132.5°	45.8	26.8	15.7	9.6	5.6	4.8	4.9	5.1	5.0	4.9	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°	46.5	27.1	15.9	9.6	5.6	4.9	5.0	5.2	5.2	5.1	6.3
134°	46.8	27.3	16.0	9.7	5.6	4.9	5.0	5.3	5.3	5.2	6.4
134.5°	47.1	27.4	16.0	9.7	5.7	5.0	5.1	5.4	5.3	5.2	6.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	47.4	27.6	16.1	9.7	5.7	5.0	5.1	5.4	5.4	5.3	6.4
135.5°	47.7	27.6	16.1	9.7	5.7	5.0	5.1	5.5	5.5	5.4	6.5
136°	47.9	27.7	16.2	9.7	5.7	5.1	5.2	5.6	5.6	5.5	6.5
136.5°	48.2	27.8	16.2	9.7	5.7	5.1	5.2	5.6	5.6	5.5	6.5
137°	48.4	27.9	16.2	9.7	5.8	5.2	5.2	5.7	5.7	5.6	6.6
137.5°	48.6	27.9	16.3	9.7	5.8	5.2	5.3	5.8	5.7	5.6	6.6
138°	48.7	28.0	16.3	9.7	5.8	5.2	5.3	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	6.6
139°	48.9	28.0	16.3	9.7	5.9	5.3	5.4	5.9	5.9	5.8	6.7
139.5°	49.0	28.0	16.3	9.7	5.9	5.4	5.5	6.0	6.0	5.9	6.7
140°	49.0	28.0	16.2	9.6	5.9	5.4	5.5	6.0	6.0	5.9	6.7
140.5°	48.9	27.9	16.2	9.6	5.9	5.4	5.5	6.1	6.1	6.0	6.7
141°	48.9	27.9	16.1	9.6	5.9	5.4	5.5	6.1	6.1	6.0	6.7
141.5°	48.7	27.8	16.1	9.5	5.9	5.4	5.6	6.2	6.2	6.1	6.7
142°	48.6	27.7	16.0	9.5	5.9	5.5	5.6	6.2	6.2	6.1	6.8
142.5°	48.3	27.6	15.9	9.4	5.9	5.5	5.6	6.2	6.2	6.2	6.8
143°	48.0	27.5	15.8	9.4	5.9	5.5	5.6	6.3	6.3	6.2	6.8
143.5°	47.7	27.4	15.7	9.3	5.9	5.5	5.6	6.3	6.3	6.2	6.8
144°	47.4	27.3	15.6	9.3	5.8	5.5	5.6	6.3	6.3	6.3	6.8
144.5°	47.0	27.1	15.5	9.2	5.8	5.5	5.6	6.3	6.3	6.3	6.8
145°	46.5	27.0	15.4	9.1	5.8	5.5	5.7	6.4	6.4	6.3	6.7
145.5°	46.0	26.8	15.2	9.1	5.8	5.6	5.7	6.4	6.4	6.3	6.7
146°	45.4	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	25.9	14.7	8.7	5.8	5.6	5.7	6.4	6.4	6.4	6.6
148°	42.5	25.7	14.5	8.7	5.7	5.6	5.8	6.4	6.4	6.4	6.6
148.5°	41.7	25.4	14.4	8.6	5.7	5.7	5.8	6.4	6.4	6.4	6.6
149°	40.8	25.1	14.2	8.5	5.7	5.7	5.8	6.4	6.4	6.4	6.5
149.5°	39.9	24.8	14.1	8.4	5.7	5.7	5.8	6.4	6.4	6.4	6.5
150°	38.9	24.4	13.9	8.3	5.7	5.7	5.8	6.4	6.4	6.3	6.4
150.5°	37.9	24.0	13.7	8.2	5.6	5.7	5.8	6.3	6.4	6.3	6.4
151°	37.0	23.7	13.6	8.1	5.6	5.7	5.8	6.3	6.3	6.3	6.3
151.5°	35.9	23.3	13.4	8.0	5.6	5.7	5.8	6.3	6.3	6.3	6.3
152°	34.8	22.9	13.2	7.9	5.6	5.7	5.8	6.3	6.3	6.3	6.2
152.5°	33.8	22.4	13.0	7.8	5.6	5.7	5.8	6.3	6.3	6.3	6.2
153°	32.7	21.9	12.8	7.7	5.5	5.7	5.8	6.3	6.3	6.2	6.1
153.5°	31.6	21.4	12.6	7.6	5.5	5.7	5.8	6.2	6.2	6.2	6.1
154°	30.5	20.9	12.4	7.4	5.5	5.7	5.8	6.2	6.2	6.2	6.0
154.5°	29.4	20.4	12.1	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	5.4	5.7	5.8	6.2	6.2	6.1	6.0
155.5°	27.1	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	18.1	11.1	6.7	5.4	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	5.8



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	22.8	17.0	10.6	6.4	5.5	5.8	5.9	6.0	6.0	6.0	5.8
158°	21.8	16.3	10.4	6.3	5.5	5.8	6.0	6.0	6.0	6.0	5.8
158.5°	20.8	15.7	10.0	6.1	5.5	5.8	6.0	6.0	6.0	5.9	5.8
159°	19.7	15.1	9.7	6.0	5.6	5.9	6.0	6.0	6.0	5.9	5.8
159.5°	18.7	14.4	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	5.9	5.9	5.7
160.5°	16.8	13.1	8.7	5.6	5.6	5.9	6.1	5.9	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°	14.9	11.8	8.0	5.5	5.6	5.9	6.1	5.9	5.9	5.8	5.6
162°	14.0	11.2	7.6	5.5	5.6	5.9	6.1	5.8	5.8	5.8	5.6
162.5°	13.1	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	5.5
163.5°	11.5	9.3	6.5	5.3	5.6	5.9	6.1	5.7	5.7	5.7	5.5
164°	10.8	8.7	6.2	5.4	5.6	5.9	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	5.6	5.9	6.2	6.3	5.6	5.6	5.6	5.4
166.5°	7.7	6.4	5.5	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	6.0	6.3	6.5	5.6	5.6	5.6	5.5
167.5°	6.6	5.7	5.7	5.8	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	6.3	6.5	5.6	5.6	5.6	5.5
168.5°	5.7	5.5	5.7	5.9	6.1	6.4	6.5	5.6	5.6	5.6	5.4
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	5.5	5.5	5.5	5.4
170°	5.3	5.5	5.8	5.9	6.2	6.4	6.6	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	5.4	5.4	5.2
172°	5.5	5.8	6.0	6.2	6.4	6.7	6.9	5.4	5.4	5.3	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	5.1
173.5°	5.8	6.0	6.3	6.5	6.7	7.0	7.2	5.4	5.3	5.2	5.1
174°	5.8	6.0	6.3	6.5	6.7	7.0	7.2	5.3	5.3	5.2	5.1
174.5°	5.8	6.0	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	5.0
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	6.8	7.0	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	5.0	5.0	5.0	4.8
178°	5.8	5.9	6.1	6.2	6.4	6.7	6.8	5.0	5.0	4.9	4.8
178.5°	5.7	5.9	6.0	6.2	6.4	6.6	6.8	4.9	4.9	4.9	4.7
179°	5.7	5.8	6.0	6.1	6.3	6.5	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



REPORT NUMBER: P973047
CATALOG NUMBER: WP-6984-100W-4000K

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: P973047

CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5
0.5°	4589.9	4596.4	4608.3	4621.6	4634.1	4649.0	4665.6	4680.7	4691.3	4702.3	4716.4
1°	4567.3	4570.6	4586.2	4606.5	4624.9	4650.1	4681.3	4713.3	4743.5	4758.4	4770.3
1.5°	4599.0	4585.7	4578.0	4587.4	4614.1	4651.2	4692.6	4742.8	4765.8	4759.6	4737.1
2°	4643.6	4615.0	4596.2	4582.2	4602.1	4647.9	4709.6	4757.5	4745.2	4698.5	4633.3
2.5°	4688.0	4653.6	4626.0	4590.9	4592.3	4645.4	4721.2	4754.8	4693.8	4585.5	4467.2
3°	4721.8	4691.1	4648.6	4605.2	4585.8	4640.2	4729.5	4730.6	4603.5	4448.1	4313.5
3.5°	4727.9	4713.1	4674.0	4621.2	4581.8	4640.2	4738.8	4686.5	4507.0	4324.4	4227.5
4°	4679.4	4716.9	4697.8	4637.0	4587.6	4640.9	4742.6	4644.9	4407.6	4230.1	4195.3
4.5°	4598.4	4695.3	4720.1	4664.0	4591.3	4637.8	4740.7	4581.5	4302.7	4193.6	4214.2
5°	4532.4	4640.0	4726.1	4684.6	4597.1	4632.9	4736.8	4505.7	4237.3	4195.4	4230.2
5.5°	4500.1	4574.4	4710.9	4699.7	4589.2	4627.9	4719.1	4429.3	4193.2	4214.1	4184.7
6°	4504.5	4524.2	4673.7	4702.6	4589.4	4620.9	4697.1	4346.7	4176.0	4222.6	4071.2
6.5°	4522.9	4503.2	4619.4	4702.3	4588.8	4611.3	4671.0	4268.1	4183.5	4183.1	3923.1
7°	4506.7	4507.3	4563.0	4701.1	4587.1	4605.2	4637.9	4217.2	4195.1	4078.3	3806.6
7.5°	4447.0	4512.4	4508.2	4693.3	4590.5	4598.6	4599.6	4176.7	4199.3	3941.0	3779.0
8°	4345.8	4507.7	4480.6	4670.9	4596.7	4586.3	4558.7	4148.0	4171.1	3827.9	3845.7
8.5°	4207.2	4472.1	4468.6	4637.3	4596.5	4573.8	4514.2	4139.5	4114.5	3758.1	3976.1
9°	4064.6	4407.5	4470.3	4592.0	4597.9	4564.7	4468.6	4138.7	4020.7	3766.1	4102.1
9.5°	3978.6	4310.2	4468.2	4546.8	4598.9	4552.1	4410.1	4134.7	3919.1	3821.0	4170.7
10°	3941.0	4186.4	4463.4	4495.6	4596.9	4541.8	4364.2	4142.7	3821.9	3930.4	4153.3
10.5°	3936.8	4069.3	4442.7	4456.9	4596.1	4532.9	4320.0	4139.1	3737.5	4040.0	4073.0
11°	3921.1	3965.9	4404.1	4424.4	4594.7	4519.1	4270.0	4121.6	3710.1	4110.6	4003.8
11.5°	3875.8	3907.3	4344.3	4399.4	4588.0	4509.7	4227.9	4090.6	3722.0	4138.0	3984.6
12°	3754.3	3879.4	4265.3	4388.0	4580.1	4495.6	4180.5	4046.5	3767.2	4093.6	4050.6
12.5°	3599.7	3873.8	4177.1	4378.4	4568.6	4479.8	4135.7	3980.6	3837.0	4027.4	4176.9
13°	3437.9	3865.2	4071.7	4369.3	4555.8	4463.3	4097.3	3915.4	3911.1	3974.0	4353.6
13.5°	3321.9	3825.3	3972.3	4354.0	4527.5	4446.3	4066.2	3839.8	3980.8	3955.1	4489.1
14°	3256.2	3744.5	3892.9	4339.4	4508.6	4430.1	4033.7	3758.5	4021.0	3985.1	4537.9
14.5°	3218.2	3626.8	3822.5	4315.7	4480.4	4406.3	4009.8	3701.7	4031.4	4065.6	4514.3
15°	3169.6	3475.6	3779.6	4287.4	4454.1	4387.4	3985.2	3651.0	4010.6	4188.6	4443.5
15.5°	3084.7	3343.6	3757.5	4251.6	4423.8	4368.9	3969.2	3620.4	3960.0	4305.3	4376.6
16°	2954.9	3238.8	3738.1	4211.9	4392.0	4349.9	3950.9	3607.4	3910.2	4394.9	4366.1
16.5°	2805.1	3171.3	3720.5	4166.6	4359.1	4330.8	3935.7	3613.3	3871.4	4431.9	4422.1
17°	2659.8	3131.0	3697.5	4118.4	4327.8	4307.1	3920.8	3632.3	3857.4	4420.6	4506.8
17.5°	2539.1	3095.2	3647.3	4053.5	4291.9	4284.8	3901.1	3654.0	3866.2	4374.6	4590.9
18°	2449.5	3038.1	3570.5	3983.9	4254.0	4263.1	3885.6	3687.8	3904.8	4306.3	4651.8
18.5°	2373.4	2953.2	3468.3	3908.7	4215.3	4239.4	3863.6	3719.2	3964.3	4262.3	4686.0
19°	2295.1	2836.2	3350.3	3823.2	4172.8	4217.6	3846.0	3743.6	4028.4	4256.5	4712.9
19.5°	2199.3	2707.8	3240.1	3747.0	4138.1	4190.7	3824.7	3766.4	4101.2	4290.1	4749.8
20°	2087.8	2580.3	3145.8	3674.8	4098.5	4170.1	3794.9	3778.4	4152.5	4350.4	4826.4
20.5°	1958.6	2475.0	3061.5	3611.6	4066.6	4143.1	3766.8	3769.8	4184.2	4416.9	4950.9
21°	1833.2	2388.9	3002.5	3558.6	4034.3	4116.7	3732.7	3750.5	4198.8	4481.3	5121.8
21.5°	1756.1	2319.9	2960.3	3515.1	4000.9	4083.2	3692.7	3725.2	4186.1	4526.1	5302.9
22°	1679.0	2255.3	2918.4	3476.4	3971.5	4051.8	3656.1	3694.3	4151.9	4555.6	5485.6



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1602.0	2179.2	2872.2	3448.6	3946.0	4023.7	3622.1	3667.4	4102.0	4572.1	5640.8
23°	1524.9	2099.3	2816.2	3422.2	3919.0	3993.1	3583.6	3639.8	4055.0	4593.6	5731.7
23.5°	1449.6	2012.6	2744.9	3399.6	3897.7	3966.9	3544.3	3622.9	4021.1	4635.7	5801.8
24°	1406.4	1913.8	2658.4	3371.6	3871.5	3936.2	3500.9	3607.2	4005.9	4718.0	5883.2
24.5°	1368.7	1819.2	2572.5	3336.0	3846.0	3910.4	3455.1	3597.4	4013.3	4825.0	5973.1
25°	1332.6	1729.5	2483.8	3292.0	3821.3	3888.0	3416.5	3593.5	4036.6	4956.1	6093.3
25.5°	1295.7	1670.0	2404.6	3236.7	3798.2	3862.5	3377.9	3598.7	4073.2	5107.0	6237.4
26°	1260.5	1610.5	2329.5	3177.4	3771.6	3840.8	3339.1	3616.4	4107.3	5216.3	6341.3
26.5°	1225.2	1551.1	2260.9	3109.1	3750.2	3819.4	3312.1	3631.9	4137.4	5303.3	6410.8
27°	1190.3	1491.6	2202.7	3048.2	3725.2	3802.1	3285.9	3660.9	4169.9	5373.8	6445.3
27.5°	1154.8	1432.7	2144.1	2979.5	3701.4	3780.5	3263.4	3689.4	4189.2	5414.7	6455.7
28°	1117.7	1396.4	2086.9	2919.3	3674.0	3763.4	3246.7	3709.7	4203.9	5447.6	6466.2
28.5°	1082.8	1363.3	2034.1	2871.9	3650.3	3743.5	3228.2	3733.5	4223.9	5496.0	6491.6
29°	1048.2	1331.7	1977.0	2825.6	3620.7	3727.8	3215.4	3749.1	4248.0	5555.7	6511.2
29.5°	1012.6	1298.6	1918.7	2784.7	3592.9	3708.6	3204.7	3749.5	4272.4	5628.0	6508.0
30°	978.2	1267.1	1865.9	2753.3	3565.8	3690.4	3192.1	3743.9	4316.9	5714.3	6479.2
30.5°	943.0	1236.4	1811.0	2720.4	3536.1	3670.7	3183.2	3726.9	4370.8	5775.7	6434.1
31°	908.5	1204.2	1757.0	2687.2	3505.1	3653.6	3174.9	3703.6	4427.0	5802.2	6388.7
31.5°	875.8	1172.2	1707.1	2657.3	3476.0	3636.4	3167.3	3674.5	4512.4	5812.6	6352.7
32°	844.5	1140.7	1660.0	2623.0	3443.6	3619.2	3166.1	3640.3	4584.7	5803.1	6325.6
32.5°	812.3	1108.3	1625.5	2583.2	3417.7	3602.9	3164.6	3611.7	4639.2	5795.1	6291.7
33°	782.0	1076.6	1590.9	2549.3	3389.9	3589.6	3166.6	3593.8	4688.7	5796.9	6248.7
33.5°	753.3	1045.8	1556.3	2509.2	3365.4	3575.7	3166.1	3583.7	4723.3	5800.3	6192.9
34°	724.7	1014.4	1521.8	2472.9	3337.2	3563.2	3166.5	3578.9	4741.5	5798.8	6133.9
34.5°	698.2	982.7	1487.5	2440.6	3310.4	3553.5	3165.8	3582.2	4759.3	5787.2	6079.9
35°	673.1	952.5	1463.4	2409.0	3286.8	3542.7	3166.2	3591.2	4770.5	5760.9	6035.9
35.5°	647.2	920.8	1440.9	2379.6	3267.8	3532.3	3163.1	3596.3	4776.1	5720.8	5989.1
36°	624.8	892.3	1422.2	2356.7	3249.7	3521.2	3162.8	3602.0	4792.4	5675.9	5931.6
36.5°	602.4	864.5	1403.5	2332.1	3234.9	3513.4	3160.8	3609.5	4817.3	5632.8	5864.0
37°	579.2	836.7	1383.9	2311.3	3222.0	3506.6	3152.5	3609.3	4840.2	5592.6	5797.0
37.5°	558.3	811.8	1365.9	2293.8	3209.2	3498.5	3142.6	3610.6	4862.3	5555.4	5729.3
38°	538.3	789.7	1347.5	2272.5	3200.0	3492.2	3129.9	3613.9	4879.8	5515.3	5679.0
38.5°	518.1	767.4	1329.1	2255.2	3192.8	3487.4	3114.7	3617.2	4886.2	5477.7	5635.6
39°	499.7	746.0	1311.8	2239.5	3187.8	3481.6	3102.7	3620.9	4889.4	5435.4	5583.5
39.5°	481.0	726.4	1291.7	2218.9	3181.2	3475.1	3085.9	3629.8	4885.8	5388.6	5534.7
40°	462.7	707.2	1273.3	2203.8	3175.2	3471.0	3075.0	3638.5	4872.5	5350.7	5488.5
40.5°	445.1	689.4	1255.3	2187.7	3164.4	3459.8	3064.1	3648.0	4860.0	5318.8	5444.8
41°	428.0	673.1	1235.6	2168.8	3153.1	3449.7	3053.7	3660.3	4848.3	5280.5	5404.4
41.5°	412.0	656.8	1216.9	2151.0	3142.0	3438.7	3045.5	3668.8	4837.8	5244.1	5374.0
42°	397.5	642.4	1199.5	2134.0	3126.9	3428.7	3037.1	3677.6	4833.5	5205.8	5347.9
42.5°	382.5	627.5	1180.1	2113.6	3110.9	3420.6	3031.1	3691.0	4829.4	5166.8	5320.0
43°	368.4	613.5	1162.0	2095.7	3095.3	3413.9	3027.1	3698.9	4816.5	5126.5	5285.7
43.5°	355.8	600.4	1145.1	2078.7	3080.6	3410.4	3026.6	3706.7	4799.6	5089.2	5254.2
44°	343.0	587.5	1126.8	2057.7	3066.7	3407.5	3029.5	3722.2	4775.0	5057.2	5224.5
44.5°	331.0	574.5	1109.5	2040.4	3054.5	3403.4	3032.6	3732.7	4740.1	5029.0	5206.6



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CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	320.1	563.0	1095.3	2024.3	3042.8	3401.8	3035.4	3743.3	4706.0	5000.5	5191.0
45.5°	309.6	551.3	1081.2	2004.4	3032.4	3397.3	3038.3	3758.5	4677.9	4969.8	5175.9
46°	299.7	539.5	1069.4	1988.4	3021.4	3393.9	3040.5	3767.6	4651.4	4934.3	5161.8
46.5°	290.9	528.6	1059.3	1971.3	3008.7	3388.2	3039.7	3772.2	4629.8	4898.4	5151.4
47°	282.2	517.8	1049.0	1953.9	2996.2	3381.8	3038.4	3781.8	4608.4	4863.1	5139.1
47.5°	274.2	506.5	1041.2	1938.4	2984.1	3375.9	3035.8	3786.4	4583.7	4830.2	5127.4
48°	267.3	496.7	1033.6	1921.0	2969.9	3368.1	3029.7	3789.0	4556.5	4797.5	5117.8
48.5°	260.0	486.5	1025.7	1901.7	2958.0	3358.3	3021.9	3798.9	4527.9	4759.5	5107.3
49°	253.5	477.0	1018.5	1884.0	2948.0	3349.9	3010.3	3805.3	4499.6	4721.0	5089.9
49.5°	247.4	468.1	1012.1	1864.9	2935.4	3339.7	2999.2	3814.7	4476.2	4678.2	5073.7
50°	241.1	459.2	1003.6	1844.1	2921.6	3329.7	2984.7	3827.1	4449.6	4633.7	5050.1
50.5°	235.3	450.6	997.2	1825.2	2909.3	3320.0	2967.6	3830.0	4421.2	4593.1	5022.6
51°	229.9	442.9	990.1	1803.0	2892.3	3309.5	2948.0	3832.0	4393.0	4547.9	4989.4
51.5°	224.3	434.5	981.0	1780.7	2875.9	3295.8	2925.0	3832.3	4357.1	4506.6	4951.6
52°	219.2	427.0	973.8	1762.2	2859.6	3277.1	2901.5	3823.9	4318.6	4470.3	4916.8
52.5°	214.3	419.4	964.4	1741.6	2842.5	3258.4	2874.8	3813.9	4276.7	4425.4	4878.3
53°	209.3	411.3	953.0	1722.9	2822.4	3235.2	2844.7	3800.1	4230.8	4381.0	4839.1
53.5°	204.5	403.5	943.3	1705.9	2803.1	3210.1	2813.8	3776.8	4183.3	4335.4	4812.7
54°	199.8	395.9	931.3	1687.8	2780.6	3179.6	2780.5	3749.1	4131.7	4288.1	4779.0
54.5°	194.8	387.9	920.2	1667.3	2756.4	3144.9	2744.5	3719.5	4080.9	4241.7	4737.1
55°	190.4	380.6	908.8	1649.9	2728.7	3103.4	2709.2	3687.6	4030.8	4198.2	4703.5
55.5°	185.7	373.1	896.1	1633.0	2700.5	3059.8	2668.6	3649.9	3979.1	4153.4	4658.7
56°	180.9	365.4	882.8	1616.0	2667.4	3011.6	2626.1	3608.3	3919.8	4104.7	4614.2
56.5°	176.5	358.4	871.4	1601.3	2635.4	2963.0	2582.3	3563.9	3865.2	4057.4	4572.4
57°	172.3	351.6	858.4	1587.4	2599.9	2907.2	2539.0	3512.4	3809.8	4010.9	4517.7
57.5°	168.0	344.6	845.2	1573.7	2564.9	2853.7	2493.5	3456.9	3757.1	3966.2	4468.0
58°	163.7	338.1	832.6	1560.7	2530.9	2798.8	2447.5	3394.3	3702.4	3912.7	4417.5
58.5°	159.4	331.7	819.5	1547.8	2496.7	2747.7	2405.3	3335.9	3646.0	3862.4	4360.2
59°	155.1	324.3	805.3	1534.8	2463.7	2696.9	2358.9	3273.0	3586.3	3807.1	4287.4
59.5°	150.7	316.8	790.8	1521.9	2428.1	2645.0	2315.0	3210.6	3527.8	3756.0	4215.7
60°	146.3	308.8	775.8	1508.8	2391.9	2592.6	2272.8	3149.1	3470.2	3708.3	4144.5
60.5°	141.8	300.5	759.6	1493.1	2356.4	2542.2	2229.7	3089.8	3413.4	3663.8	4064.0
61°	137.5	293.1	744.3	1476.8	2319.1	2489.1	2186.0	3025.2	3357.5	3618.7	3977.7
61.5°	133.2	285.8	727.0	1457.7	2282.8	2438.1	2143.9	2965.3	3298.2	3565.3	3899.8
62°	128.9	278.8	708.7	1436.5	2247.7	2387.4	2105.4	2902.1	3233.7	3504.4	3818.7
62.5°	124.9	272.0	691.3	1412.9	2211.1	2338.5	2065.0	2847.3	3170.1	3440.7	3736.3
63°	120.5	264.5	671.1	1385.7	2174.3	2293.8	2026.7	2787.5	3106.0	3371.2	3655.4
63.5°	116.5	257.1	652.4	1356.3	2137.2	2251.1	1987.9	2726.8	3042.8	3289.5	3567.9
64°	112.6	249.9	633.5	1328.8	2100.8	2206.1	1950.7	2669.2	2978.0	3206.0	3483.8
64.5°	108.8	242.1	613.8	1300.8	2060.7	2158.9	1912.1	2615.6	2914.5	3127.3	3406.5
65°	104.9	233.8	592.8	1274.3	2021.5	2112.3	1871.5	2558.6	2849.5	3046.0	3326.6
65.5°	101.2	225.9	574.2	1247.5	1977.7	2067.8	1831.9	2503.7	2784.4	2960.9	3247.4
66°	97.1	218.2	553.9	1216.9	1935.6	2019.3	1792.3	2450.3	2719.6	2883.3	3169.3
66.5°	93.2	210.0	534.5	1186.5	1893.5	1969.6	1748.9	2395.7	2652.2	2805.9	3088.8
67°	89.0	202.8	515.3	1156.8	1850.2	1922.1	1706.3	2337.2	2586.3	2726.2	3013.7



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	84.3	196.1	497.3	1124.8	1805.0	1879.2	1665.2	2280.5	2517.4	2650.3	2943.3
68°	77.2	189.1	479.2	1090.8	1759.8	1836.4	1623.7	2223.9	2445.3	2573.0	2868.4
68.5°	69.2	182.4	462.2	1057.4	1713.0	1790.4	1582.1	2171.7	2376.2	2504.2	2792.8
69°	60.2	175.9	445.9	1022.7	1667.3	1741.4	1540.6	2113.5	2303.5	2435.8	2713.3
69.5°	54.6	169.4	430.0	988.7	1620.2	1694.8	1499.1	2059.5	2229.6	2365.6	2630.2
70°	53.0	162.9	414.5	956.0	1573.0	1644.3	1457.5	2006.6	2158.9	2300.0	2548.0
70.5°	51.7	156.4	399.6	919.1	1525.8	1593.8	1415.1	1951.2	2088.4	2233.7	2465.5
71°	50.6	149.7	385.1	886.9	1478.6	1543.3	1373.4	1893.7	2016.5	2163.4	2382.0
71.5°	49.5	141.5	371.7	857.8	1431.4	1492.9	1329.4	1838.8	1945.6	2091.4	2300.2
72°	48.4	132.2	357.9	830.5	1381.5	1442.3	1286.0	1783.4	1880.3	2027.1	2225.5
72.5°	47.4	125.4	344.1	803.2	1332.1	1389.2	1240.1	1724.6	1814.4	1956.8	2146.8
73°	46.4	120.7	329.1	775.7	1282.2	1340.0	1198.1	1660.8	1750.1	1883.0	2066.7
73.5°	45.4	115.6	314.8	749.1	1231.4	1290.9	1158.1	1597.1	1691.4	1816.7	1993.9
74°	44.5	110.6	301.6	724.4	1182.8	1238.7	1116.3	1533.3	1632.1	1744.1	1916.2
74.5°	43.6	106.2	290.5	700.8	1134.3	1186.8	1072.9	1469.5	1572.9	1676.4	1842.7
75°	42.6	101.9	278.7	678.5	1087.1	1137.7	1031.3	1405.7	1513.6	1608.6	1768.0
75.5°	41.7	97.9	266.9	658.1	1042.9	1088.3	988.4	1337.1	1454.2	1540.9	1692.7
76°	40.8	94.1	256.0	639.8	1000.0	1040.0	946.3	1269.3	1394.7	1473.1	1617.4
76.5°	39.9	90.7	244.7	619.0	961.4	994.1	905.6	1209.4	1334.6	1405.6	1542.1
77°	38.9	87.3	234.4	598.4	920.9	947.9	863.0	1148.6	1271.5	1340.5	1466.9
77.5°	38.0	84.0	225.9	578.3	883.0	898.4	821.1	1086.9	1208.3	1277.6	1391.6
78°	37.0	80.6	216.9	555.2	840.2	847.9	779.9	1030.0	1149.6	1217.2	1323.0
78.5°	36.0	77.4	209.6	533.6	795.1	798.3	735.3	974.1	1089.1	1153.5	1249.9
79°	34.9	74.4	201.8	511.0	747.7	750.9	690.4	918.7	1031.5	1093.2	1179.4
79.5°	33.8	71.3	193.3	488.6	699.4	704.6	646.9	867.6	978.6	1037.2	1109.0
80°	32.8	68.3	183.3	465.2	651.3	658.0	603.7	816.8	924.9	977.2	1040.8
80.5°	31.7	65.6	173.3	441.9	607.1	613.1	562.0	766.3	871.1	918.7	972.5
81°	30.7	62.8	163.2	418.0	565.7	569.0	525.5	718.9	821.3	864.1	911.8
81.5°	29.7	60.1	153.2	393.9	527.1	524.7	487.4	673.1	771.0	806.7	847.4
82°	28.7	57.5	143.2	369.9	487.9	479.8	448.4	626.2	722.9	752.4	784.5
82.5°	27.7	54.8	132.9	343.5	451.9	438.4	409.7	582.0	674.7	700.3	727.6
83°	26.7	52.1	122.6	318.2	416.3	398.3	375.4	539.3	627.8	650.5	672.0
83.5°	25.8	49.4	112.5	294.1	380.7	358.9	344.0	498.8	581.0	600.3	620.6
84°	24.9	46.9	103.1	269.4	345.7	321.6	314.5	459.3	537.2	557.4	575.4
84.5°	24.0	44.5	94.9	245.4	311.6	285.0	284.9	420.7	492.3	513.1	529.4
85°	23.2	42.2	87.4	222.7	279.6	250.7	259.4	385.1	452.4	474.4	488.7
85.5°	22.4	40.0	80.1	204.0	248.8	224.5	234.0	350.5	415.5	438.3	451.4
86°	21.6	38.0	73.8	185.3	225.4	198.2	211.6	317.6	380.3	404.4	416.6
86.5°	20.8	36.1	68.3	166.5	202.1	172.0	193.9	288.3	348.6	373.8	383.6
87°	20.1	34.3	63.4	147.8	178.7	145.7	176.2	263.8	322.2	347.5	355.9
87.5°	19.4	32.7	59.1	129.2	155.3	119.6	158.5	239.3	296.7	322.0	328.8
88°	18.7	31.2	55.3	116.6	132.0	102.6	141.2	219.3	274.3	299.0	304.4
88.5°	18.0	29.7	52.1	105.0	116.1	87.6	129.0	202.4	255.1	278.5	282.8
89°	17.4	28.4	49.2	95.2	103.1	75.7	118.0	191.3	238.1	260.4	262.7
89.5°	16.8	27.2	46.7	86.8	92.0	66.1	109.4	180.3	223.4	243.5	245.2



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	16.3	26.2	44.6	79.9	83.3	59.0	102.8	169.2	209.5	229.3	230.5
90.5°	15.8	25.1	42.8	74.3	76.8	53.6	97.6	158.1	196.9	216.1	217.1
91°	15.2	24.2	41.3	69.7	72.1	49.6	93.5	147.0	186.8	203.6	204.9
91.5°	14.7	23.5	40.1	65.9	68.8	46.8	90.4	141.0	180.5	192.1	193.3
92°	14.2	22.9	39.2	62.7	66.6	45.1	88.0	136.2	174.2	183.2	182.6
92.5°	13.9	22.3	38.5	60.2	65.0	44.1	86.1	132.0	167.8	176.8	176.2
93°	13.6	21.8	38.0	58.5	64.1	43.6	84.5	128.6	161.5	170.4	169.9
93.5°	13.3	21.3	37.7	57.4	63.5	43.4	83.1	125.6	155.2	164.1	163.6
94°	13.0	20.9	37.5	56.7	63.3	43.4	81.9	122.9	151.1	157.7	157.4
94.5°	12.7	20.5	37.3	56.3	63.4	43.7	81.0	120.5	147.4	153.2	153.3
95°	12.5	20.0	37.1	56.0	63.4	44.2	80.3	118.3	143.9	149.2	149.9
95.5°	12.3	19.7	37.0	55.8	63.5	44.8	80.0	116.2	140.7	145.5	146.9
96°	12.1	19.4	36.8	55.6	63.4	45.4	80.0	114.4	137.8	142.3	144.3
96.5°	11.9	19.1	36.6	55.2	63.3	46.2	80.1	112.8	135.1	139.4	142.0
97°	11.7	18.8	36.2	54.8	63.0	47.0	80.3	111.5	132.6	136.7	140.0
97.5°	11.5	18.6	35.8	54.3	62.6	47.8	80.6	110.5	130.4	134.4	138.4
98°	11.3	18.3	35.2	53.7	62.2	48.6	80.9	109.8	128.5	132.4	136.8
98.5°	11.1	18.0	34.5	53.0	61.7	49.6	81.4	109.2	126.8	130.6	135.5
99°	11.0	17.7	33.8	52.3	61.3	50.5	81.8	108.7	125.3	129.1	134.3
99.5°	10.8	17.4	32.9	51.5	61.0	51.4	82.4	108.3	124.0	127.6	133.3
100°	10.6	17.1	32.1	50.7	60.8	52.4	83.1	108.1	123.0	126.2	132.4
100.5°	10.4	16.9	31.2	50.0	60.6	53.4	83.7	108.0	122.2	125.1	131.1
101°	10.2	16.6	30.5	49.2	60.6	54.4	84.4	108.0	121.6	124.6	130.0
101.5°	9.9	16.4	29.8	48.5	60.7	55.4	85.0	107.9	121.1	124.3	129.8
102°	9.6	16.1	29.1	47.9	60.9	56.4	85.8	107.9	120.5	124.1	130.1
102.5°	9.3	15.9	28.5	47.4	61.2	57.4	86.6	108.0	120.0	123.7	129.9
103°	9.1	15.8	28.0	46.9	61.6	58.4	87.5	108.0	119.5	123.4	129.7
103.5°	8.9	15.6	27.6	46.5	62.1	59.4	88.4	108.1	119.1	123.2	129.5
104°	8.7	15.4	27.2	46.1	62.6	60.4	89.3	108.2	118.7	123.0	129.3
104.5°	8.6	15.3	26.9	45.8	63.3	61.4	90.1	108.4	118.2	122.8	129.2
105°	8.4	15.2	26.7	45.6	64.0	62.4	91.0	108.5	117.8	122.7	129.1
105.5°	8.4	15.0	26.5	45.4	64.6	63.4	91.8	108.6	117.3	122.5	129.1
106°	8.3	14.9	26.4	45.3	65.3	64.4	92.6	108.7	116.9	122.3	129.1
106.5°	8.2	14.8	26.3	45.2	65.9	65.4	93.4	108.8	116.5	122.1	129.0
107°	8.1	14.6	26.2	45.2	66.6	66.3	94.2	108.9	116.1	121.9	128.8
107.5°	8.0	14.5	26.2	45.2	67.3	67.2	95.0	109.0	115.7	121.5	128.5
108°	7.9	14.4	26.2	45.1	67.9	68.0	95.7	109.3	115.3	121.0	128.1
108.5°	7.8	14.3	26.2	45.2	68.4	68.8	96.4	109.7	115.0	120.6	127.6
109°	7.7	14.1	26.2	45.2	68.9	69.6	97.1	110.2	114.9	120.3	127.2
109.5°	7.6	14.1	26.2	45.3	69.3	70.3	97.8	110.7	114.8	120.1	126.7
110°	7.5	14.0	26.2	45.3	69.8	71.0	98.5	111.3	114.7	119.9	126.3
110.5°	7.4	13.9	26.2	45.4	70.3	71.7	99.2	111.7	114.6	119.8	125.9
111°	7.3	13.9	26.2	45.5	70.8	72.4	100.0	112.2	114.6	119.7	125.6
111.5°	7.3	13.8	26.2	45.5	71.4	73.2	100.7	112.7	114.5	119.6	125.2
112°	7.2	13.8	26.2	45.5	71.9	74.0	101.5	113.1	114.5	119.6	124.9



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	7.2	13.7	26.3	45.5	72.3	74.7	102.1	113.5	114.5	119.5	124.6
113°	7.2	13.7	26.2	45.5	72.9	75.4	102.7	113.9	114.4	119.5	124.4
113.5°	7.2	13.7	26.2	45.5	73.3	75.9	103.3	114.3	114.4	119.4	124.2
114°	7.2	13.6	26.2	45.5	73.7	76.5	103.8	114.8	114.4	119.3	124.1
114.5°	7.2	13.6	26.2	45.4	74.1	77.1	104.3	115.1	114.4	119.1	124.1
115°	7.2	13.6	26.1	45.4	74.5	77.6	104.8	115.5	114.3	119.0	124.0
115.5°	7.3	13.5	26.0	45.3	74.8	78.0	105.2	115.8	114.3	118.8	123.9
116°	7.3	13.5	25.9	45.3	75.0	78.4	105.5	116.1	114.2	118.8	123.8
116.5°	7.3	13.5	25.8	45.3	75.3	78.6	105.8	116.2	114.1	118.7	123.6
117°	7.4	13.6	25.8	45.3	75.7	78.8	106.1	116.3	114.1	118.6	123.5
117.5°	7.4	13.6	25.7	45.2	76.0	79.0	106.3	116.5	114.1	118.6	123.4
118°	7.5	13.6	25.6	45.2	76.3	79.2	106.3	116.6	114.1	118.5	123.2
118.5°	7.5	13.7	25.6	45.2	76.5	79.3	106.3	116.7	114.1	118.4	123.1
119°	7.6	13.7	25.5	45.2	76.5	79.3	106.2	116.7	114.0	118.4	122.9
119.5°	7.7	13.8	25.5	45.1	76.6	79.2	106.0	116.8	114.0	118.3	122.8
120°	7.8	13.9	25.4	45.1	76.5	79.0	105.8	116.8	114.0	118.4	122.7
120.5°	7.8	13.9	25.4	45.1	76.5	78.8	105.5	116.8	114.0	118.4	122.6
121°	8.0	14.0	25.4	45.1	76.4	78.5	105.2	116.8	114.0	118.5	122.5
121.5°	8.1	14.0	25.4	45.1	76.3	78.2	104.8	116.8	114.0	118.6	122.5
122°	8.2	14.1	25.4	45.0	76.3	77.7	104.3	116.7	114.1	118.6	122.5
122.5°	8.3	14.2	25.4	45.0	76.2	77.2	103.8	116.7	114.2	118.7	122.5
123°	8.4	14.2	25.5	45.0	76.0	76.7	103.3	116.7	114.3	118.8	122.5
123.5°	8.5	14.3	25.5	45.0	75.9	76.2	102.7	116.8	114.4	118.9	122.5
124°	8.6	14.4	25.6	45.0	75.8	75.7	102.1	116.9	114.5	119.1	122.5
124.5°	8.7	14.4	25.6	45.1	75.6	75.1	101.5	117.0	114.7	119.3	122.5
125°	8.8	14.5	25.7	45.2	75.5	74.7	101.0	117.1	114.8	119.4	122.5
125.5°	8.9	14.6	25.8	45.2	75.4	74.3	100.4	117.3	115.1	119.6	122.5
126°	9.0	14.7	25.9	45.4	75.4	73.9	99.9	117.5	115.4	119.8	122.5
126.5°	9.1	14.8	26.0	45.5	75.4	73.6	99.5	117.8	115.6	119.9	122.5
127°	9.2	14.9	26.1	45.6	75.4	73.3	99.0	118.0	115.9	120.1	122.5
127.5°	9.3	15.0	26.1	45.8	75.5	73.1	98.6	118.2	116.3	120.3	122.5
128°	9.3	15.0	26.2	46.0	75.6	72.9	98.2	118.5	116.6	120.4	122.6
128.5°	9.4	15.1	26.3	46.2	75.6	72.7	97.9	118.7	116.9	120.6	122.6
129°	9.5	15.2	26.4	46.4	75.7	72.6	97.5	118.9	117.3	120.7	122.6
129.5°	9.6	15.3	26.5	46.7	75.7	72.5	97.2	119.1	117.6	120.9	122.5
130°	9.6	15.4	26.6	46.9	75.8	72.4	96.9	119.3	118.0	120.9	122.5
130.5°	9.7	15.5	26.7	47.2	75.9	72.3	96.6	119.4	118.3	120.9	122.4
131°	9.7	15.5	26.8	47.4	76.0	72.2	96.2	119.5	118.6	120.9	122.2
131.5°	9.8	15.6	26.9	47.7	76.0	72.1	95.8	119.4	118.9	120.8	122.0
132°	9.8	15.7	27.0	48.0	76.1	72.0	95.5	119.3	119.2	120.7	121.8
132.5°	9.9	15.8	27.1	48.2	76.1	71.9	95.1	119.2	119.4	120.5	121.4
133°	9.9	15.9	27.2	48.5	76.0	71.8	94.7	119.0	119.5	120.3	121.0
133.5°	10.0	15.9	27.3	48.7	75.9	71.6	94.2	118.7	119.6	120.1	120.6
134°	10.0	16.1	27.5	49.0	75.8	71.3	93.6	118.3	119.7	119.8	120.0
134.5°	10.1	16.1	27.6	49.2	75.6	71.1	93.0	117.8	119.6	119.5	119.4



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	10.1	16.2	27.7	49.4	75.3	70.8	92.3	117.4	119.5	119.2	118.8
135.5°	10.1	16.3	27.8	49.6	75.0	70.5	91.7	116.8	119.3	118.8	118.1
136°	10.2	16.3	27.9	49.7	74.7	70.2	91.0	116.0	119.0	118.2	117.3
136.5°	10.2	16.4	28.0	49.9	74.3	69.7	90.2	115.3	118.6	117.6	116.4
137°	10.2	16.5	28.1	50.0	73.8	69.3	89.4	114.5	118.1	117.0	115.4
137.5°	10.2	16.5	28.2	50.1	73.2	68.9	88.5	113.5	117.4	116.3	114.5
138°	10.3	16.6	28.2	50.2	72.6	68.4	87.6	112.5	116.8	115.6	113.5
138.5°	10.3	16.6	28.2	50.2	72.0	67.8	86.7	111.4	115.9	114.8	112.6
139°	10.3	16.6	28.3	50.2	71.3	67.2	85.7	110.2	115.0	113.9	111.6
139.5°	10.3	16.7	28.3	50.1	70.5	66.6	84.6	108.9	114.1	112.9	110.7
140°	10.3	16.7	28.2	50.0	69.7	65.9	83.5	107.6	112.9	112.0	109.8
140.5°	10.3	16.6	28.2	49.9	68.8	65.1	82.3	106.1	111.7	110.8	108.8
141°	10.3	16.6	28.2	49.7	67.8	64.4	81.1	104.6	110.4	109.5	107.9
141.5°	10.3	16.6	28.1	49.4	66.8	63.6	79.9	103.0	109.1	108.1	107.0
142°	10.3	16.5	28.0	49.1	65.8	62.7	78.5	101.4	107.6	106.8	106.1
142.5°	10.2	16.5	27.8	48.8	64.6	61.7	77.1	99.6	106.0	105.3	105.2
143°	10.2	16.4	27.7	48.3	63.5	60.8	75.6	97.8	104.3	103.8	104.2
143.5°	10.2	16.3	27.5	47.9	62.3	59.8	74.1	95.9	102.6	102.2	103.3
144°	10.1	16.2	27.4	47.4	61.0	58.7	72.6	94.0	100.8	100.6	102.3
144.5°	10.1	16.1	27.2	46.8	59.7	57.6	71.0	92.0	98.8	98.9	101.2
145°	10.0	16.0	27.0	46.2	58.4	56.5	69.4	89.9	96.9	97.3	100.1
145.5°	9.9	15.9	26.7	45.6	57.0	55.3	67.7	87.8	95.0	95.8	98.9
146°	9.8	15.8	26.5	44.8	55.7	54.1	66.0	85.6	92.9	94.2	97.6
146.5°	9.7	15.6	26.2	44.1	54.2	52.9	64.3	83.4	90.8	92.5	96.3
147°	9.6	15.4	25.9	43.2	52.8	51.6	62.5	81.1	88.6	90.8	94.8
147.5°	9.5	15.2	25.6	42.4	51.3	50.3	60.7	78.8	86.5	89.2	93.4
148°	9.4	15.0	25.3	41.5	49.9	49.0	58.9	76.5	84.4	87.6	91.8
148.5°	9.2	14.8	24.9	40.5	48.3	47.7	57.1	74.1	82.3	86.0	90.2
149°	9.1	14.6	24.5	39.5	46.8	46.3	55.2	71.7	80.2	84.4	88.7
149.5°	8.9	14.4	24.1	38.5	45.3	45.0	53.4	69.2	78.1	82.6	86.9
150°	8.7	14.1	23.7	37.4	43.9	43.6	51.5	66.8	75.8	80.8	85.3
150.5°	8.6	13.9	23.3	36.3	42.3	42.3	49.6	64.4	73.5	79.1	83.6
151°	8.4	13.7	22.8	35.2	40.8	40.9	47.7	62.0	71.1	77.2	81.8
151.5°	8.2	13.4	22.4	34.1	39.4	39.6	45.9	59.6	68.8	75.3	80.1
152°	8.0	13.1	21.9	33.0	37.9	38.2	44.1	57.3	66.5	73.5	78.3
152.5°	7.8	12.8	21.4	31.9	36.5	36.9	42.4	54.9	64.1	71.6	76.5
153°	7.6	12.5	20.8	30.7	35.0	35.5	40.5	52.6	61.8	69.6	74.7
153.5°	7.4	12.1	20.3	29.6	33.6	34.2	38.8	50.4	59.3	67.7	72.8
154°	7.2	11.8	19.7	28.5	32.2	32.9	37.1	48.0	56.9	65.7	70.7
154.5°	7.0	11.4	19.1	27.2	30.9	31.5	35.4	45.8	54.4	63.7	68.8
155°	6.8	11.1	18.5	26.1	29.5	30.3	33.8	43.6	51.9	61.6	66.8
155.5°	6.6	10.7	17.8	25.0	28.2	29.0	32.2	41.5	49.4	59.3	64.8
156°	6.3	10.3	17.1	23.9	26.9	27.8	30.6	39.3	47.0	56.5	62.8
156.5°	6.1	9.9	16.3	22.8	25.7	26.6	29.1	37.3	44.5	53.8	60.9
157°	5.9	9.4	15.6	21.7	24.4	25.4	27.6	35.2	42.1	51.1	58.9



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 CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.8	9.0	14.8	20.6	23.3	24.2	26.2	33.3	39.6	48.4	57.0
158°	5.8	8.6	14.1	19.6	22.1	23.1	24.7	31.3	37.1	45.7	55.0
158.5°	5.7	8.2	13.4	18.6	21.0	22.0	23.4	29.4	34.6	43.0	52.9
159°	5.6	7.7	12.7	17.6	19.8	20.9	22.1	27.6	32.2	40.1	50.1
159.5°	5.6	7.3	12.0	16.6	18.8	19.8	20.8	25.9	30.2	37.5	47.0
160°	5.6	6.9	11.3	15.6	17.8	18.8	19.6	24.2	28.3	34.9	43.9
160.5°	5.5	6.6	10.6	14.6	16.8	17.8	18.4	22.6	26.6	32.3	40.9
161°	5.5	6.3	10.0	13.7	15.7	16.8	17.4	21.0	24.7	29.8	37.9
161.5°	5.5	6.1	9.3	12.8	14.7	15.8	16.3	19.6	23.0	27.2	34.8
162°	5.4	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	8.0	11.1	12.9	13.8	14.2	17.0	19.8	22.0	29.1
163°	5.4	5.7	7.5	10.4	12.0	13.0	13.2	15.7	18.5	19.7	26.3
163.5°	5.4	5.5	7.1	9.6	11.2	12.1	12.4	14.4	17.1	18.3	23.8
164°	5.3	5.4	6.7	8.9	10.5	11.3	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	12.9	14.3	16.8
165.5°	5.3	5.2	5.7	7.1	8.4	9.2	9.4	10.2	11.8	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	12.2
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	7.6	8.0	9.1	10.0	10.7
167.5°	5.3	5.3	5.2	5.6	6.3	6.9	7.1	7.3	8.4	9.2	10.1
168°	5.3	5.3	5.2	5.3	5.9	6.5	6.7	6.8	7.7	8.5	9.5
168.5°	5.3	5.2	5.2	5.2	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	7.6	8.5
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	5.2	6.0	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°	5.1	5.1	5.1	5.2	5.2	5.2	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	5.0	5.1	5.1	5.2	5.3	5.3	5.4	5.6	6.0	6.4
173°	5.0	5.0	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.9	6.2
173.5°	5.0	5.0	5.0	5.1	5.1	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	4.9	5.0	5.1	5.1	5.2	5.4	5.4	5.5	5.7	5.9
175°	4.9	4.9	5.0	5.0	5.1	5.2	5.4	5.5	5.5	5.6	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	5.3	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	5.5	5.6	5.7
177°	4.8	4.7	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	5.1	5.3	5.4	5.5	5.6	5.7
178°	4.7	4.7	4.8	4.9	5.0	5.1	5.2	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	5.6	5.8
179°	4.6	4.6	4.7	4.8	4.9	5.1	5.2	5.4	5.5	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



REPORT NUMBER: P973047
 CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	4650.5	4650.5	4650.5	4650.5
0.5°	4727.4	4736.8	4738.2	4723.3
1°	4770.2	4769.9	4764.7	4676.7
1.5°	4708.7	4675.2	4653.2	4509.5
2°	4564.5	4502.2	4466.3	4299.2
2.5°	4370.5	4308.4	4275.2	4176.2
3°	4242.0	4210.7	4204.6	4173.1
3.5°	4200.9	4208.7	4224.3	4204.4
4°	4223.9	4243.4	4239.3	4160.7
4.5°	4238.4	4205.1	4151.0	3993.9
5°	4173.1	4061.2	3966.4	3801.1
5.5°	4018.8	3867.3	3801.3	3734.2
6°	3850.8	3778.4	3786.9	3830.1
6.5°	3781.2	3831.3	3920.2	4012.4
7°	3825.5	3986.6	4096.4	4143.8
7.5°	3965.8	4139.8	4190.4	4126.9
8°	4111.6	4184.4	4144.8	4002.7
8.5°	4191.2	4109.6	4025.1	3933.0
9°	4150.7	4010.4	3987.2	4012.7
9.5°	4059.3	3997.3	4092.9	4236.6
10°	3994.2	4115.7	4326.6	4478.2
10.5°	4032.6	4330.8	4549.6	4586.8
11°	4168.4	4539.7	4628.1	4536.3
11.5°	4378.4	4623.8	4572.0	4422.5
12°	4541.9	4572.7	4463.4	4399.2
12.5°	4599.4	4473.3	4448.5	4511.4
13°	4560.7	4437.0	4555.6	4667.4
13.5°	4467.7	4513.2	4704.3	4746.1
14°	4416.7	4640.6	4783.8	4757.6
14.5°	4466.8	4741.9	4805.3	4767.8
15°	4571.2	4792.5	4827.9	4832.6
15.5°	4671.2	4813.2	4902.9	5006.5
16°	4734.3	4857.1	5058.3	5242.7
16.5°	4769.7	4966.3	5291.2	5498.8
17°	4797.1	5150.0	5541.5	5719.5
17.5°	4850.7	5392.0	5783.6	5888.7
18°	4966.3	5631.7	5963.4	6019.5
18.5°	5144.2	5834.1	6093.8	6152.4
19°	5361.4	5987.5	6222.1	6321.5
19.5°	5584.4	6107.3	6387.6	6535.4
20°	5756.0	6224.2	6593.1	6756.7
20.5°	5894.3	6387.9	6797.7	6940.5
21°	5998.8	6582.5	6968.2	7081.2
21.5°	6103.4	6767.5	7105.1	7187.6
22°	6240.1	6905.1	7207.7	7267.1



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	6402.0	7004.3	7285.6	7306.3
23°	6560.4	7090.1	7329.9	7320.9
23.5°	6692.3	7154.8	7335.1	7312.8
24°	6780.7	7200.6	7317.1	7287.8
24.5°	6826.5	7198.0	7289.2	7263.3
25°	6873.5	7174.4	7272.5	7226.2
25.5°	6927.0	7138.8	7259.1	7187.1
26°	6945.3	7119.9	7229.9	7142.3
26.5°	6943.7	7114.2	7184.3	7112.2
27°	6921.2	7093.6	7131.0	7089.2
27.5°	6879.0	7045.5	7106.1	7037.5
28°	6852.1	6974.1	7078.5	6975.6
28.5°	6833.3	6922.1	7036.5	6904.4
29°	6808.5	6907.1	6970.2	6837.2
29.5°	6772.9	6889.8	6888.7	6767.9
30°	6716.2	6832.1	6813.9	6713.8
30.5°	6652.6	6736.6	6756.0	6656.7
31°	6609.8	6658.8	6714.0	6594.8
31.5°	6577.2	6606.7	6668.1	6527.3
32°	6540.4	6574.6	6593.9	6454.5
32.5°	6473.0	6529.6	6499.9	6397.3
33°	6385.6	6459.5	6420.1	6332.2
33.5°	6319.4	6373.8	6353.9	6240.4
34°	6269.8	6296.5	6285.5	6130.4
34.5°	6219.8	6231.4	6191.7	6041.5
35°	6153.4	6181.4	6107.3	5981.8
35.5°	6072.3	6126.1	6038.2	5945.7
36°	5996.6	6060.2	5989.9	5927.2
36.5°	5935.4	5990.6	5968.8	5931.6
37°	5883.1	5938.8	5960.5	5953.9
37.5°	5842.2	5900.5	5971.7	5979.9
38°	5798.3	5885.8	5993.4	6019.5
38.5°	5751.4	5884.9	6029.0	6059.7
39°	5700.8	5890.1	6072.6	6107.2
39.5°	5655.0	5913.4	6122.1	6153.6
40°	5626.2	5945.2	6175.7	6199.8
40.5°	5607.8	5985.5	6232.0	6244.0
41°	5601.1	6028.7	6283.3	6281.9
41.5°	5600.0	6070.9	6317.6	6318.9
42°	5614.3	6104.3	6348.1	6339.8
42.5°	5631.1	6134.7	6379.9	6375.6
43°	5640.6	6157.5	6418.7	6414.7
43.5°	5656.1	6176.6	6448.8	6444.3
44°	5672.6	6200.8	6468.8	6465.4
44.5°	5685.3	6216.0	6498.2	6460.5



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	5699.5	6227.7	6504.9	6451.5
45.5°	5712.2	6239.7	6492.3	6412.7
46°	5722.1	6242.8	6469.4	6372.9
46.5°	5724.2	6239.7	6416.9	6302.9
47°	5728.2	6217.2	6364.7	6243.3
47.5°	5724.2	6190.0	6306.3	6176.1
48°	5714.0	6137.2	6249.2	6131.4
48.5°	5703.7	6084.9	6195.9	6076.6
49°	5683.5	6027.4	6127.4	6004.6
49.5°	5660.6	5978.5	6056.3	5921.3
50°	5628.0	5917.0	5969.2	5838.8
50.5°	5599.9	5860.9	5886.7	5773.7
51°	5547.4	5796.4	5806.4	5718.4
51.5°	5495.4	5718.2	5741.2	5670.7
52°	5437.1	5641.8	5677.3	5621.6
52.5°	5383.5	5572.4	5624.6	5577.7
53°	5331.8	5510.4	5569.5	5517.0
53.5°	5276.7	5452.7	5504.0	5456.1
54°	5220.6	5389.1	5445.0	5401.3
54.5°	5155.5	5336.3	5385.2	5339.5
55°	5091.4	5277.8	5321.8	5260.6
55.5°	5032.1	5220.4	5234.2	5164.6
56°	4981.1	5144.7	5136.4	5064.9
56.5°	4925.0	5062.4	5031.0	4953.4
57°	4854.5	4968.4	4934.3	4864.1
57.5°	4775.3	4885.2	4842.5	4782.0
58°	4697.6	4784.2	4752.8	4693.2
58.5°	4623.4	4695.3	4663.3	4607.5
59°	4542.0	4602.7	4571.1	4510.2
59.5°	4450.0	4505.3	4470.3	4399.6
60°	4357.4	4404.5	4362.3	4270.9
60.5°	4264.3	4308.7	4248.9	4146.6
61°	4170.8	4198.3	4125.4	4023.6
61.5°	4081.7	4091.1	4009.2	3908.6
62°	3980.5	3978.0	3894.9	3810.2
62.5°	3884.0	3872.6	3791.3	3723.0
63°	3789.1	3771.1	3711.8	3660.5
63.5°	3691.1	3683.0	3639.2	3601.7
64°	3596.3	3592.9	3570.9	3537.4
64.5°	3510.8	3520.8	3499.8	3467.5
65°	3429.8	3449.6	3427.8	3398.1
65.5°	3349.2	3370.9	3345.7	3303.8
66°	3272.1	3286.8	3258.4	3197.2
66.5°	3195.2	3202.8	3167.7	3094.8
67°	3113.0	3110.7	3068.1	2999.3



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	3033.3	3014.0	2971.0	2910.9
68°	2948.2	2918.7	2891.6	2831.7
68.5°	2855.7	2834.4	2816.1	2754.4
69°	2764.2	2749.5	2739.9	2682.6
69.5°	2679.8	2670.3	2664.5	2603.0
70°	2596.0	2588.4	2582.5	2514.3
70.5°	2514.0	2507.9	2497.3	2427.3
71°	2431.1	2427.9	2413.5	2342.8
71.5°	2350.3	2342.7	2327.1	2258.4
72°	2266.5	2260.8	2242.3	2182.6
72.5°	2186.4	2182.0	2161.9	2106.9
73°	2108.1	2096.0	2079.8	2024.1
73.5°	2030.7	2010.2	1995.8	1940.4
74°	1950.4	1931.1	1910.1	1858.7
74.5°	1866.0	1852.5	1823.3	1763.9
75°	1787.4	1763.5	1738.9	1672.0
75.5°	1706.6	1680.8	1654.6	1581.5
76°	1625.9	1598.2	1570.3	1490.9
76.5°	1545.1	1515.6	1486.0	1404.7
77°	1464.4	1432.9	1401.7	1323.2
77.5°	1383.9	1350.4	1315.4	1242.2
78°	1310.2	1271.5	1235.2	1165.4
78.5°	1235.4	1194.2	1155.6	1093.7
79°	1158.8	1117.7	1080.8	1024.7
79.5°	1083.8	1039.6	1010.1	954.1
80°	1008.2	969.5	945.7	895.1
80.5°	938.4	903.7	882.3	837.0
81°	872.9	843.7	825.8	782.4
81.5°	808.1	788.7	775.5	734.6
82°	750.4	736.3	725.7	688.1
82.5°	694.5	684.8	674.9	641.6
83°	643.0	640.1	630.6	595.0
83.5°	596.3	594.1	586.0	548.5
84°	553.5	548.0	541.0	502.0
84.5°	513.6	506.7	499.6	463.1
85°	476.4	469.3	460.5	426.0
85.5°	440.9	431.2	424.5	394.2
86°	408.1	398.0	392.5	365.0
86.5°	377.8	368.0	361.9	338.6
87°	349.7	339.8	335.2	314.9
87.5°	322.3	315.7	313.3	294.6
88°	299.1	293.7	292.7	275.8
88.5°	277.5	273.7	274.2	260.0
89°	259.2	257.4	258.6	245.7
89.5°	242.1	242.1	244.0	232.8



REPORT NUMBER: P973047
 CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	227.3	228.5	230.9	221.9
90.5°	214.4	217.6	220.6	212.1
91°	204.0	207.8	211.1	203.5
91.5°	194.1	199.2	202.6	196.5
92°	184.6	191.5	196.0	190.1
92.5°	179.2	183.6	188.7	182.7
93°	173.8	176.2	181.4	175.9
93.5°	168.4	172.6	175.6	171.2
94°	163.0	169.0	172.8	167.8
94.5°	157.6	165.5	170.1	165.0
95°	154.6	162.0	167.4	162.9
95.5°	152.3	159.5	164.7	160.7
96°	149.8	157.2	162.0	158.3
96.5°	147.8	155.6	160.2	156.8
97°	146.2	154.0	158.8	155.8
97.5°	144.7	152.7	157.6	154.9
98°	143.5	151.7	156.6	153.8
98.5°	142.5	150.7	155.5	152.6
99°	141.4	149.8	154.4	151.9
99.5°	140.4	148.8	153.5	150.9
100°	139.6	147.8	152.4	149.7
100.5°	138.7	146.8	151.3	148.5
101°	137.1	145.8	150.2	147.4
101.5°	135.6	143.6	148.3	144.7
102°	135.3	141.7	145.5	142.5
102.5°	135.8	141.4	143.9	141.4
103°	135.6	141.9	143.8	141.8
103.5°	135.1	141.6	144.2	141.7
104°	134.7	140.8	143.6	141.1
104.5°	134.3	140.2	142.8	140.2
105°	133.9	139.5	141.8	139.4
105.5°	133.6	138.9	141.0	138.6
106°	133.3	138.4	140.2	137.7
106.5°	133.1	138.0	139.6	137.0
107°	132.9	137.6	139.1	136.5
107.5°	132.6	137.2	138.6	136.0
108°	132.3	136.7	138.1	135.3
108.5°	131.7	136.2	137.4	134.4
109°	131.1	135.5	136.5	133.5
109.5°	130.4	134.6	135.6	132.4
110°	129.7	133.7	134.7	131.2
110.5°	129.1	132.8	133.6	130.0
111°	128.4	132.0	132.5	128.9
111.5°	127.8	131.2	131.5	127.8
112°	127.2	130.4	130.5	126.7



REPORT NUMBER: P973047
 CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	126.6	129.5	129.6	125.6
113°	126.0	128.7	128.6	124.6
113.5°	125.6	127.9	127.6	123.8
114°	125.2	127.0	126.7	123.0
114.5°	125.0	126.4	125.9	122.2
115°	124.8	125.8	125.1	121.5
115.5°	124.7	125.3	124.4	120.6
116°	124.6	125.0	123.7	119.8
116.5°	124.6	124.8	123.2	119.2
117°	124.5	124.6	122.8	118.7
117.5°	124.5	124.6	122.5	118.3
118°	124.5	124.5	122.3	118.1
118.5°	124.5	124.4	122.1	117.9
119°	124.5	124.5	122.0	117.8
119.5°	124.4	124.5	122.0	117.8
120°	124.3	124.5	122.0	117.9
120.5°	124.2	124.6	122.1	118.1
121°	124.2	124.6	122.2	118.3
121.5°	124.2	124.5	122.3	118.4
122°	124.1	124.5	122.3	118.5
122.5°	124.1	124.6	122.3	118.7
123°	124.1	124.6	122.3	118.9
123.5°	124.0	124.6	122.4	119.2
124°	124.0	124.6	122.5	119.4
124.5°	123.9	124.7	122.6	119.7
125°	124.0	124.8	122.8	119.9
125.5°	124.0	124.9	122.9	120.2
126°	124.1	125.0	123.1	120.5
126.5°	124.1	125.1	123.3	120.9
127°	124.2	125.3	123.4	120.9
127.5°	124.2	125.5	123.4	120.9
128°	124.2	125.7	123.4	121.0
128.5°	124.4	125.8	123.4	121.0
129°	124.5	125.9	123.4	121.0
129.5°	124.5	126.0	123.3	120.9
130°	124.5	126.1	123.3	120.9
130.5°	124.5	126.1	123.3	120.8
131°	124.4	126.1	123.2	120.6
131.5°	124.3	126.1	123.1	120.5
132°	124.2	125.9	123.0	120.4
132.5°	124.1	125.7	122.7	120.0
133°	123.9	125.5	122.4	119.6
133.5°	123.6	125.2	121.9	119.1
134°	123.3	124.8	121.5	118.4
134.5°	122.9	124.4	120.8	117.7



REPORT NUMBER: P973047
 CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	122.3	123.9	120.2	116.9
135.5°	121.8	123.3	119.6	116.0
136°	121.3	122.7	119.0	115.2
136.5°	120.7	122.0	118.2	114.2
137°	120.1	121.2	117.3	113.1
137.5°	119.3	120.5	116.5	112.0
138°	118.3	119.7	115.5	110.8
138.5°	117.3	118.8	114.5	109.6
139°	115.5	118.0	113.6	108.4
139.5°	114.6	117.0	112.7	107.5
140°	113.9	115.9	111.8	106.4
140.5°	113.1	114.7	110.8	105.5
141°	112.4	113.0	109.7	104.2
141.5°	111.6	111.5	108.4	102.7
142°	110.7	110.8	107.0	101.2
142.5°	109.7	110.0	104.6	98.0
143°	108.7	109.1	103.4	97.0
143.5°	107.6	108.4	102.5	96.4
144°	106.5	107.5	101.6	95.6
144.5°	105.3	106.5	100.6	94.8
145°	104.1	105.5	99.6	94.1
145.5°	102.8	104.4	98.6	93.2
146°	101.4	103.3	97.5	92.3
146.5°	100.1	102.1	96.4	91.5
147°	98.7	100.9	95.3	90.5
147.5°	97.2	99.6	94.1	89.5
148°	95.7	98.2	92.9	88.5
148.5°	94.3	96.8	91.7	87.5
149°	92.7	95.2	90.4	86.4
149.5°	91.1	93.8	89.1	85.3
150°	89.4	92.3	87.9	84.2
150.5°	87.6	90.6	86.5	83.0
151°	85.9	89.0	85.2	81.8
151.5°	84.3	87.3	83.9	80.4
152°	82.5	85.5	82.3	79.1
152.5°	80.8	83.7	80.8	77.7
153°	79.0	82.0	79.2	76.2
153.5°	77.2	80.1	77.6	75.6
154°	75.2	78.2	76.0	74.1
154.5°	73.5	76.4	74.5	72.6
155°	71.6	74.5	72.9	71.2
155.5°	69.7	72.7	71.3	69.7
156°	67.8	70.8	69.7	68.2
156.5°	65.8	68.9	68.1	66.6
157°	63.7	66.9	66.5	65.1



REPORT NUMBER: P973047
 CATALOG NUMBER: WP-6984-100W-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	61.8	65.0	65.0	63.5
158°	59.8	62.9	63.2	61.8
158.5°	57.8	60.9	61.4	60.1
159°	55.9	58.9	59.7	58.3
159.5°	54.0	56.9	57.9	56.4
160°	51.9	54.9	56.0	54.7
160.5°	49.9	53.1	54.3	52.9
161°	47.3	51.1	52.5	51.1
161.5°	43.9	49.1	50.8	49.5
162°	40.6	47.1	49.1	47.6
162.5°	37.3	44.3	47.2	45.7
163°	33.9	40.5	45.1	43.8
163.5°	30.9	37.2	42.1	40.6
164°	27.9	33.7	38.4	37.0
164.5°	25.1	30.3	34.8	33.5
165°	22.5	27.3	31.5	30.2
165.5°	20.1	24.4	28.2	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	18.7
167.5°	10.6	14.4	17.3	16.2
168°	10.0	11.8	14.6	13.4
168.5°	9.5	9.4	12.0	10.6
169°	9.0	8.9	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°	7.7	7.9	8.3	7.0
171°	7.4	7.6	8.0	6.6
171.5°	7.1	7.4	7.8	6.3
172°	6.9	7.2	7.5	6.0
172.5°	6.6	6.9	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	5.0
175°	6.0	6.1	6.2	4.9
175.5°	5.9	6.0	6.2	4.7
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°	5.8	6.0	6.2	4.6
179°	5.9	6.1	6.3	4.7
179.5°	6.0	6.1	6.3	4.7



REPORT NUMBER: P973047
CATALOG NUMBER: WP-6984-100W-4000K

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: SP1-2410-249-2

Test Date: 10/24/2024

Luminaire Tested: WP-6984-4000K-H (100W)

Data in this report applies to families of products including WP-6984-4000K-H (100W)

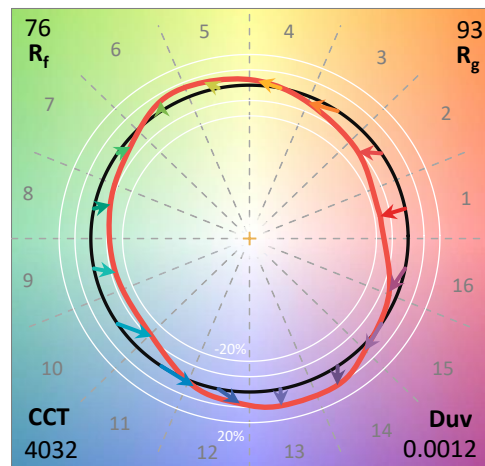
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2410-249-2
 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-6984-4000K-H (100W)**
 Description: DIALITE SQLED WALL PACK SAMPLE 100w-4000K HIGH OUTPUT

Spectral Parameters

CCT (K): 4032
 CIE u': 0.2238
 CIE v': 0.5025
 Duv: 0.0012
 CIE x: 0.3799
 CIE y: 0.3790
 CIE z: 0.2411
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 578
 Purity: 27.73699
 Rf: 75.7
 Rg: 93.4

CRI (Ra):	73.7		
R1:	70.9	R9:	-23.4
R2:	80.7	R10:	53.1
R3:	87.5	R11:	66.9
R4:	71.9	R12:	41.8
R5:	70.1	R13:	72.7
R6:	71.8	R14:	92.8
R7:	82.5	R15:	64.6
R8:	54.4		



Test Conditions

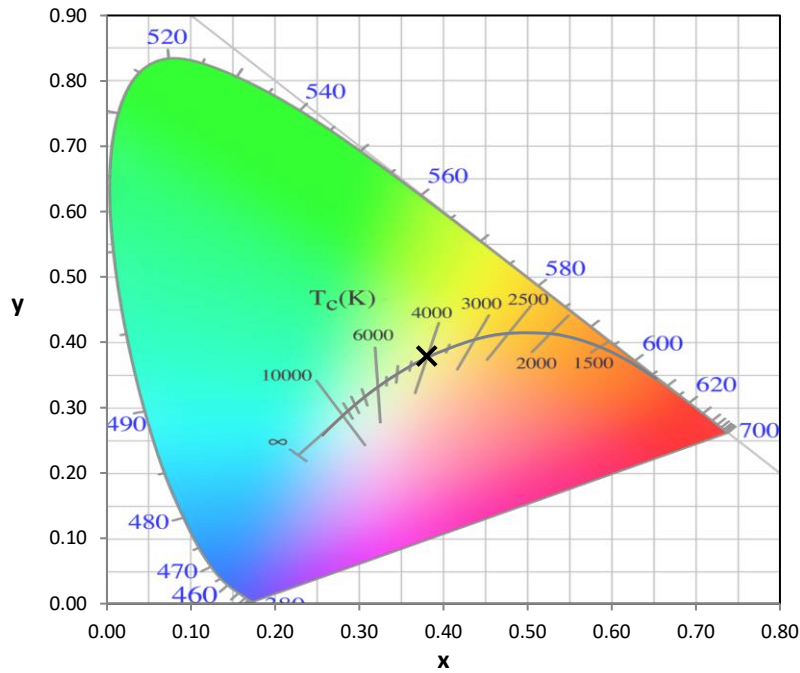
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.4

REPORT NUMBER: SP1-2410-249-2

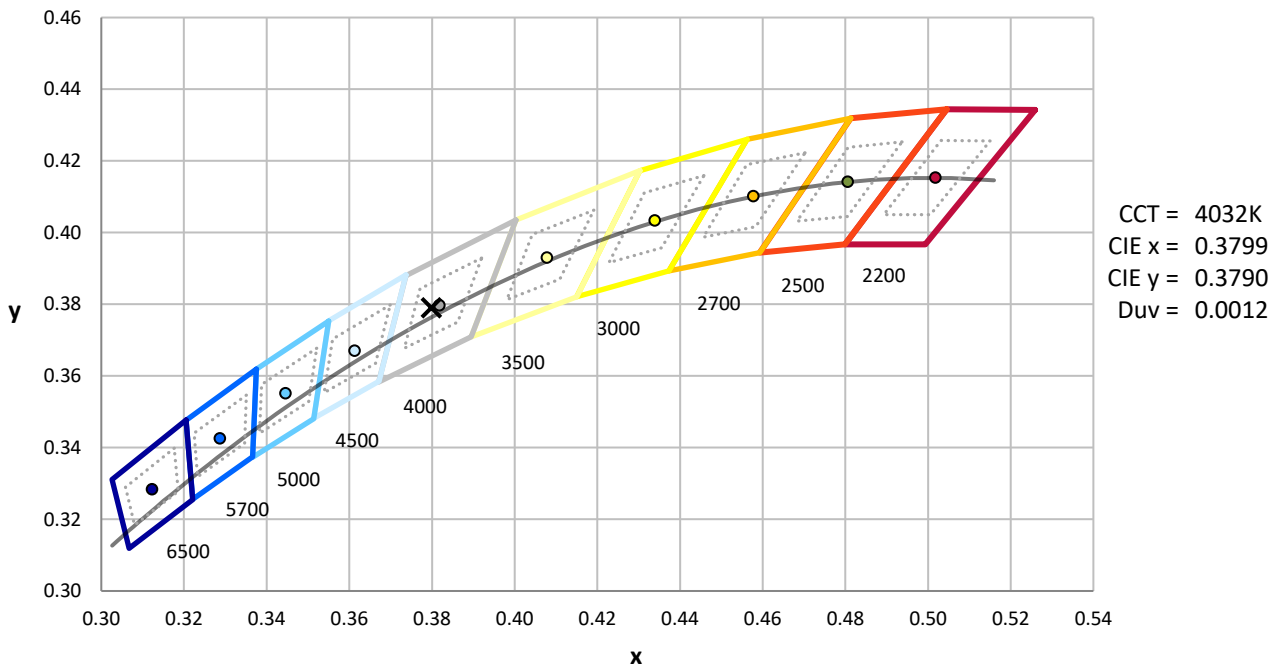
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2410-249-2

CIE 1931 Chromaticity Diagram



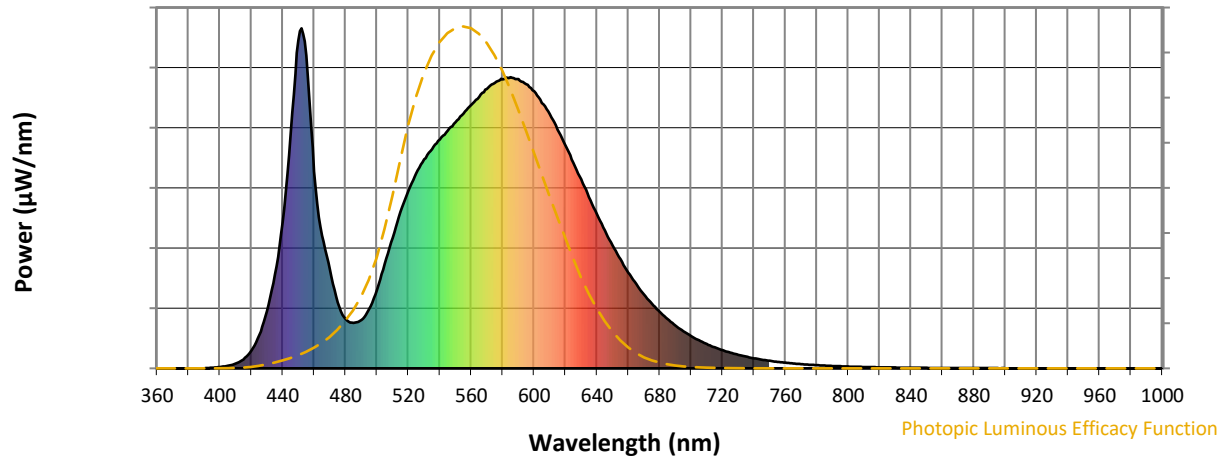
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2410-249-2

Photopic Flux vs. Wavelength

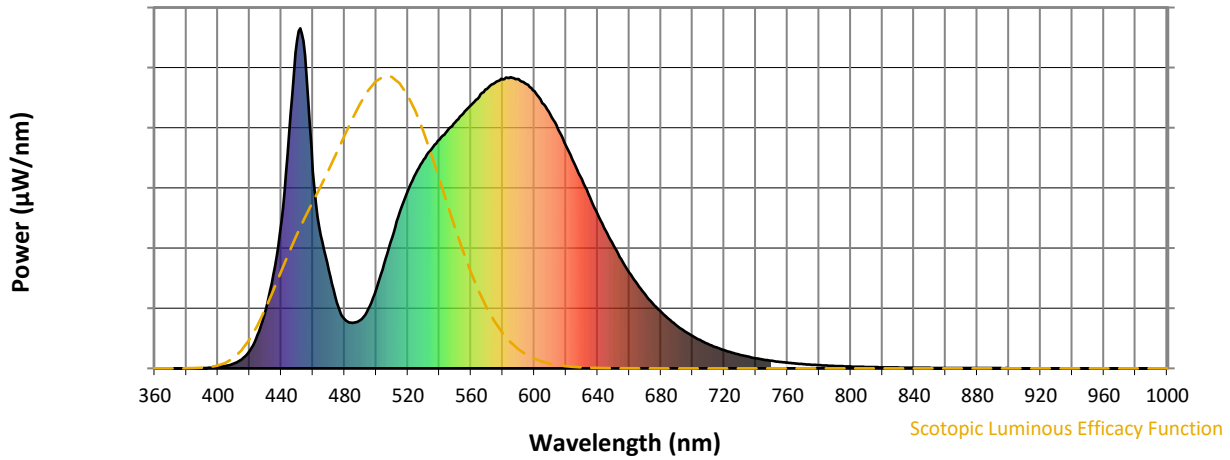


Photopic Lumens: NR

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	142	NR	620	655	NR	750	22	NR	880	1	NR
365	0	NR	495	174	NR	625	605	NR	755	19	NR	885	1	NR
370	0	NR	500	231	NR	630	556	NR	760	17	NR	890	1	NR
375	0	NR	505	307	NR	635	503	NR	765	14	NR	895	1	NR
380	0	NR	510	384	NR	640	453	NR	770	12	NR	900	0	NR
385	0	NR	515	460	NR	645	406	NR	775	11	NR	905	0	NR
390	0	NR	520	522	NR	650	361	NR	780	9	NR	910	0	NR
395	2	NR	525	573	NR	655	321	NR	785	8	NR	915	0	NR
400	4	NR	530	614	NR	660	282	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	248	NR	795	6	NR	925	0	NR
410	14	NR	540	673	NR	670	217	NR	800	5	NR	930	0	NR
415	27	NR	545	700	NR	675	190	NR	805	5	NR	935	0	NR
420	52	NR	550	724	NR	680	166	NR	810	4	NR	940	0	NR
425	98	NR	555	749	NR	685	145	NR	815	4	NR	945	0	NR
430	169	NR	560	775	NR	690	126	NR	820	3	NR	950	0	NR
435	277	NR	565	798	NR	695	110	NR	825	3	NR	955	0	NR
440	430	NR	570	822	NR	700	95	NR	830	2	NR	960	0	NR
445	690	NR	575	839	NR	705	82	NR	835	2	NR	965	0	NR
450	965	NR	580	850	NR	710	71	NR	840	2	NR	970	0	NR
455	920	NR	585	856	NR	715	62	NR	845	2	NR	975	0	NR
460	579	NR	590	851	NR	720	54	NR	850	1	NR	980	0	NR
465	390	NR	595	836	NR	725	46	NR	855	1	NR	985	0	NR
470	289	NR	600	815	NR	730	40	NR	860	1	NR	990	0	NR
475	194	NR	605	781	NR	735	34	NR	865	1	NR	995	0	NR
480	145	NR	610	747	NR	740	30	NR	870	1	NR	1000	0	NR
485	134	NR	615	702	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2410-249-2

Scotopic Flux vs. Wavelength



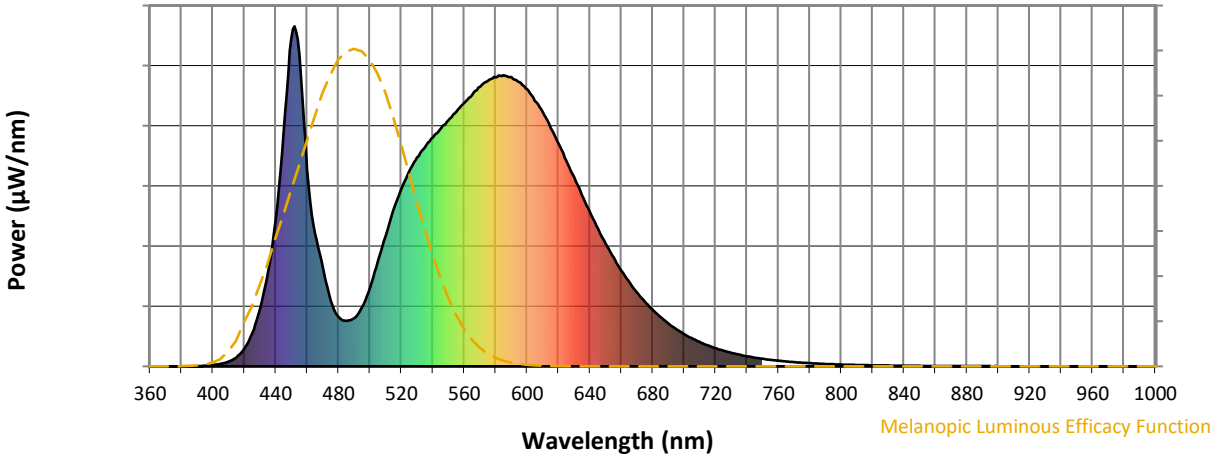
Scotopic Lumens: NR

S/P: 1.55

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	142	NR	620	655	NR	750	22	NR	880	1	NR
365	0	NR	495	174	NR	625	605	NR	755	19	NR	885	1	NR
370	0	NR	500	231	NR	630	556	NR	760	17	NR	890	1	NR
375	0	NR	505	307	NR	635	503	NR	765	14	NR	895	1	NR
380	0	NR	510	384	NR	640	453	NR	770	12	NR	900	0	NR
385	0	NR	515	460	NR	645	406	NR	775	11	NR	905	0	NR
390	0	NR	520	522	NR	650	361	NR	780	9	NR	910	0	NR
395	2	NR	525	573	NR	655	321	NR	785	8	NR	915	0	NR
400	4	NR	530	614	NR	660	282	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	248	NR	795	6	NR	925	0	NR
410	14	NR	540	673	NR	670	217	NR	800	5	NR	930	0	NR
415	27	NR	545	700	NR	675	190	NR	805	5	NR	935	0	NR
420	52	NR	550	724	NR	680	166	NR	810	4	NR	940	0	NR
425	98	NR	555	749	NR	685	145	NR	815	4	NR	945	0	NR
430	169	NR	560	775	NR	690	126	NR	820	3	NR	950	0	NR
435	277	NR	565	798	NR	695	110	NR	825	3	NR	955	0	NR
440	430	NR	570	822	NR	700	95	NR	830	2	NR	960	0	NR
445	690	NR	575	839	NR	705	82	NR	835	2	NR	965	0	NR
450	965	NR	580	850	NR	710	71	NR	840	2	NR	970	0	NR
455	920	NR	585	856	NR	715	62	NR	845	2	NR	975	0	NR
460	579	NR	590	851	NR	720	54	NR	850	1	NR	980	0	NR
465	390	NR	595	836	NR	725	46	NR	855	1	NR	985	0	NR
470	289	NR	600	815	NR	730	40	NR	860	1	NR	990	0	NR
475	194	NR	605	781	NR	735	34	NR	865	1	NR	995	0	NR
480	145	NR	610	747	NR	740	30	NR	870	1	NR	1000	0	NR
485	134	NR	615	702	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



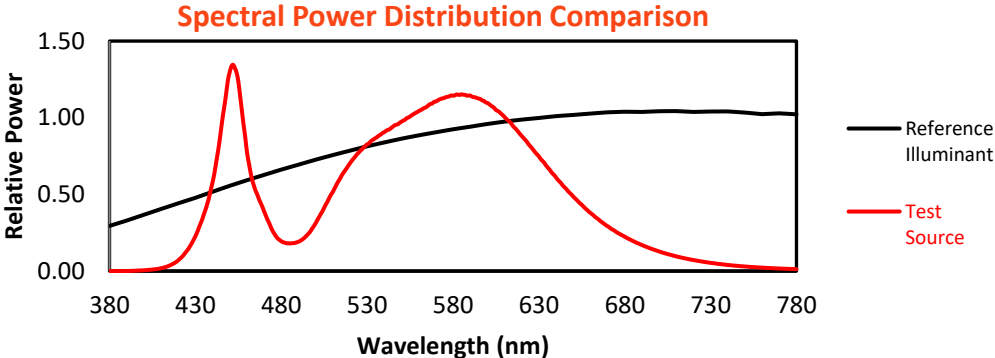
Melanopic Lumens: NR

M/P: 3.08

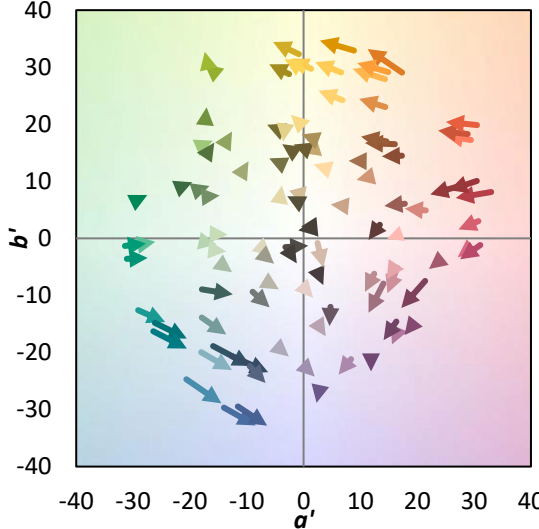
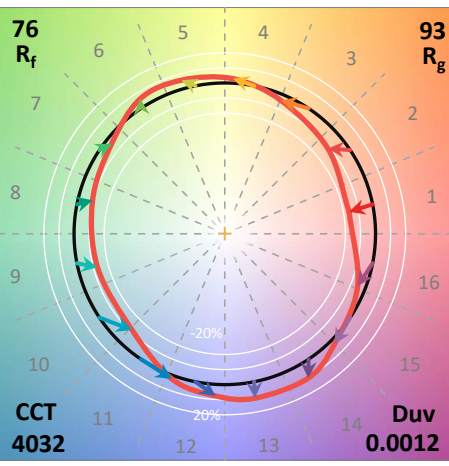
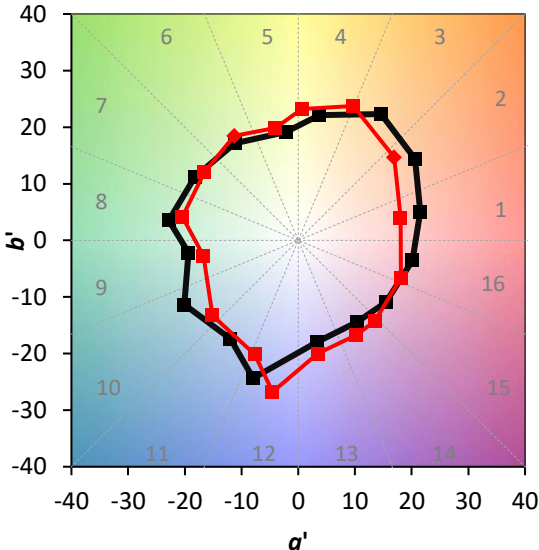
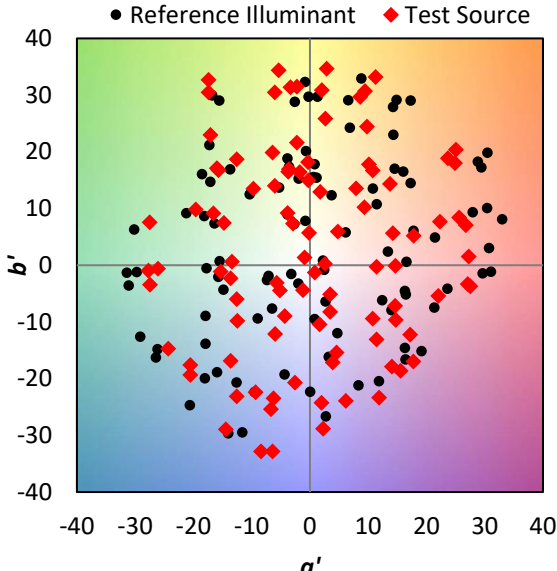
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	655	NR	750	22	NR	880	1	NR
365	0	NR	495	174	NR	625	605	NR	755	19	NR	885	1	NR
370	0	NR	500	231	NR	630	556	NR	760	17	NR	890	1	NR
375	0	NR	505	307	NR	635	503	NR	765	14	NR	895	1	NR
380	0	NR	510	384	NR	640	453	NR	770	12	NR	900	0	NR
385	0	NR	515	460	NR	645	406	NR	775	11	NR	905	0	NR
390	0	NR	520	522	NR	650	361	NR	780	9	NR	910	0	NR
395	2	NR	525	573	NR	655	321	NR	785	8	NR	915	0	NR
400	4	NR	530	614	NR	660	282	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	248	NR	795	6	NR	925	0	NR
410	14	NR	540	673	NR	670	217	NR	800	5	NR	930	0	NR
415	27	NR	545	700	NR	675	190	NR	805	5	NR	935	0	NR
420	52	NR	550	724	NR	680	166	NR	810	4	NR	940	0	NR
425	98	NR	555	749	NR	685	145	NR	815	4	NR	945	0	NR
430	169	NR	560	775	NR	690	126	NR	820	3	NR	950	0	NR
435	277	NR	565	798	NR	695	110	NR	825	3	NR	955	0	NR
440	430	NR	570	822	NR	700	95	NR	830	2	NR	960	0	NR
445	690	NR	575	839	NR	705	82	NR	835	2	NR	965	0	NR
450	965	NR	580	850	NR	710	71	NR	840	2	NR	970	0	NR
455	920	NR	585	856	NR	715	62	NR	845	2	NR	975	0	NR
460	579	NR	590	851	NR	720	54	NR	850	1	NR	980	0	NR
465	390	NR	595	836	NR	725	46	NR	855	1	NR	985	0	NR
470	289	NR	600	815	NR	730	40	NR	860	1	NR	990	0	NR
475	194	NR	605	781	NR	735	34	NR	865	1	NR	995	0	NR
480	145	NR	610	747	NR	740	30	NR	870	1	NR	1000	0	NR
485	134	NR	615	702	NR	745	26	NR	875	1	NR			

Summary

$R_f = 75.7$
 $R_g = 93.4$
 CIE $R_a = 73.7$
 $R_g = -23.4$

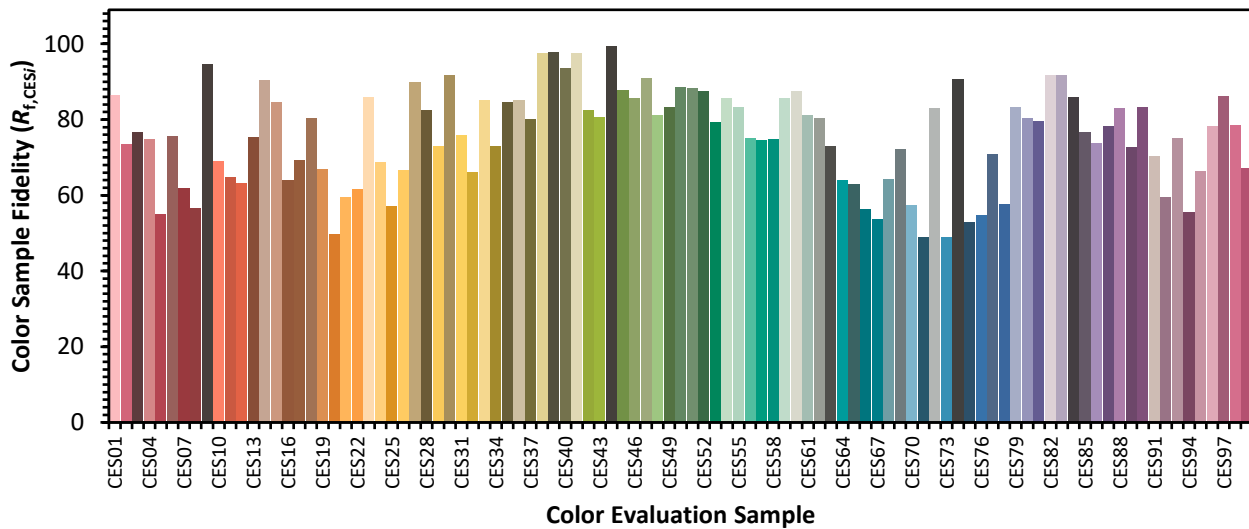


Color Vector Graphics

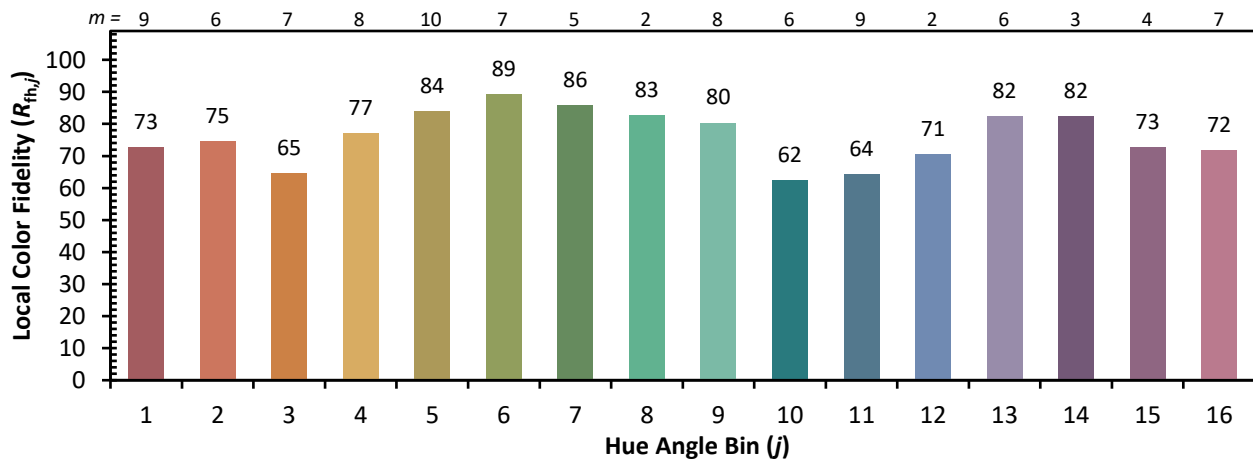
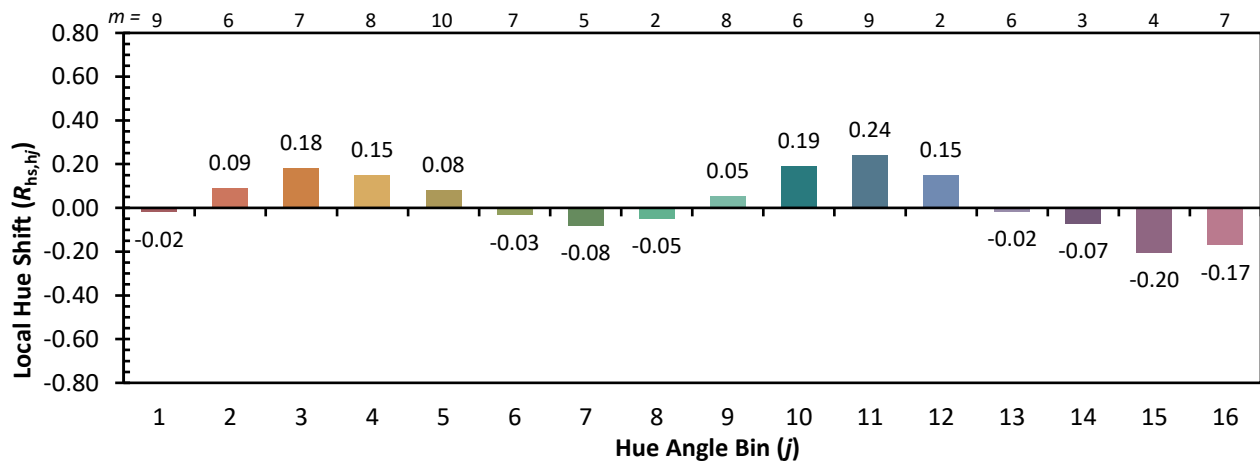
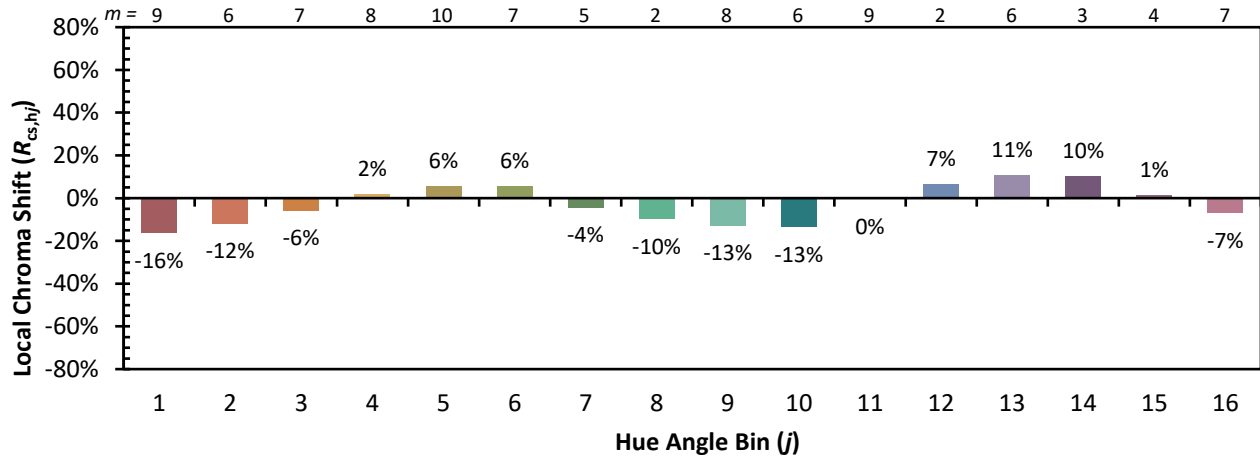


Individual Sample Fidelity Index ($R_{f,i}$)

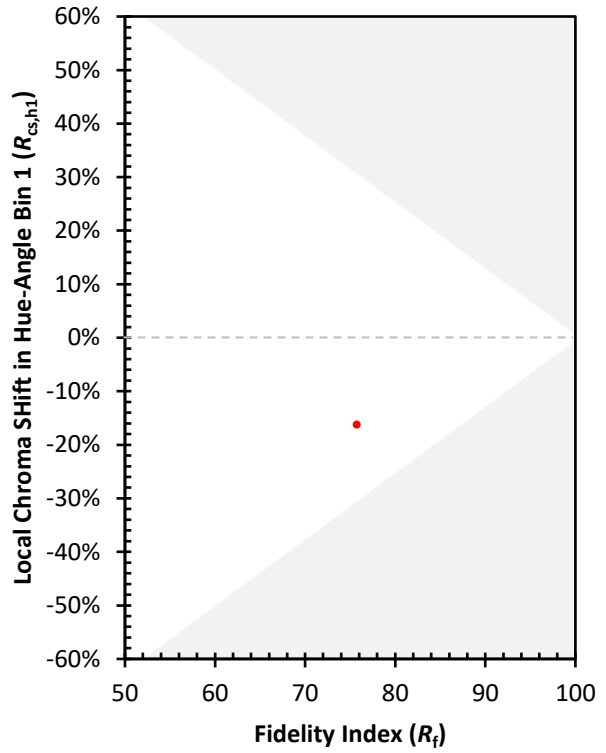
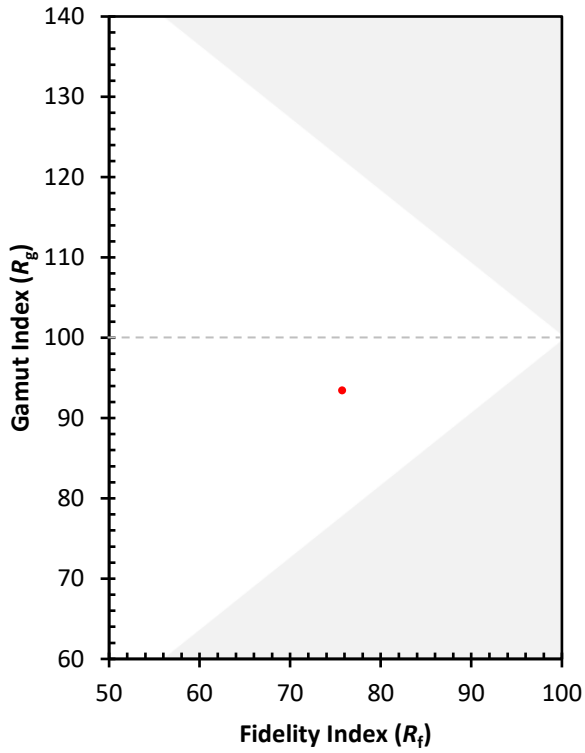
CES01 = 85	CES26 = 67	CES51 = 88	CES76 = 55
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 83	CES53 = 79	CES78 = 58
CES04 = 70	CES29 = 73	CES54 = 86	CES79 = 83
CES05 = 47	CES30 = 92	CES55 = 83	CES80 = 80
CES06 = 50	CES31 = 76	CES56 = 75	CES81 = 80
CES07 = 40	CES32 = 66	CES57 = 75	CES82 = 92
CES08 = 39	CES33 = 85	CES58 = 75	CES83 = 92
CES09 = 29	CES34 = 73	CES59 = 86	CES84 = 86
CES10 = 74	CES35 = 85	CES60 = 88	CES85 = 77
CES11 = 57	CES36 = 85	CES61 = 81	CES86 = 74
CES12 = 63	CES37 = 80	CES62 = 80	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 73	CES88 = 83
CES14 = 74	CES39 = 98	CES64 = 64	CES89 = 73
CES15 = 71	CES40 = 93	CES65 = 63	CES90 = 83
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 70
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 60
CES18 = 56	CES43 = 81	CES68 = 64	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 55
CES20 = 65	CES45 = 88	CES70 = 57	CES95 = 67
CES21 = 86	CES46 = 86	CES71 = 49	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 49	CES98 = 78
CES24 = 91	CES49 = 83	CES74 = 91	CES99 = 67
CES25 = 72	CES50 = 89	CES75 = 53	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)