

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1445006

Luminaire Tested: XAS180-SFPM (4000K-180W-T5)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445006
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (4000K-180W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 5
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 27641.4 lumens
Efficiency: 98.5%
Efficacy: 158.9 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 174
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

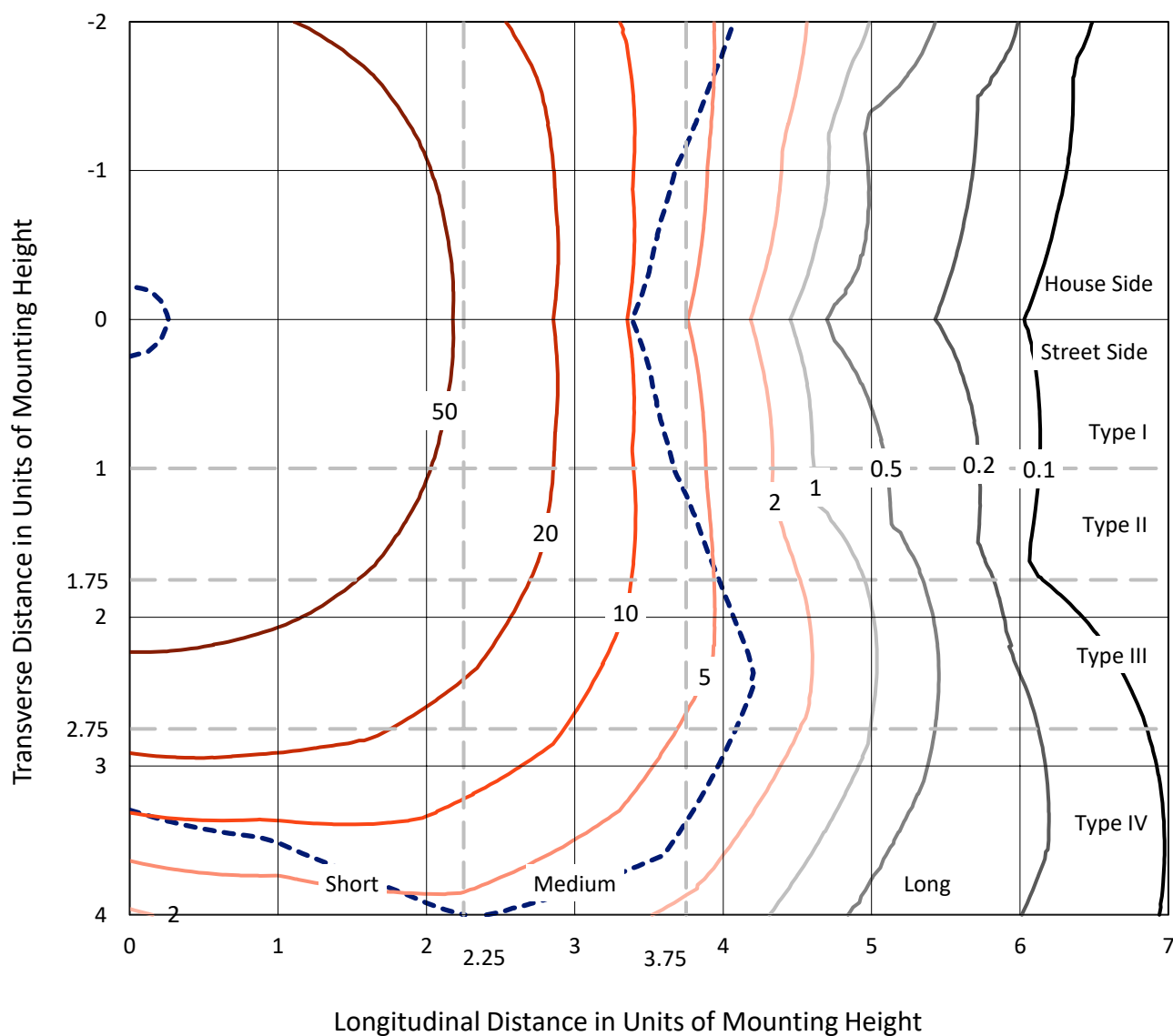
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

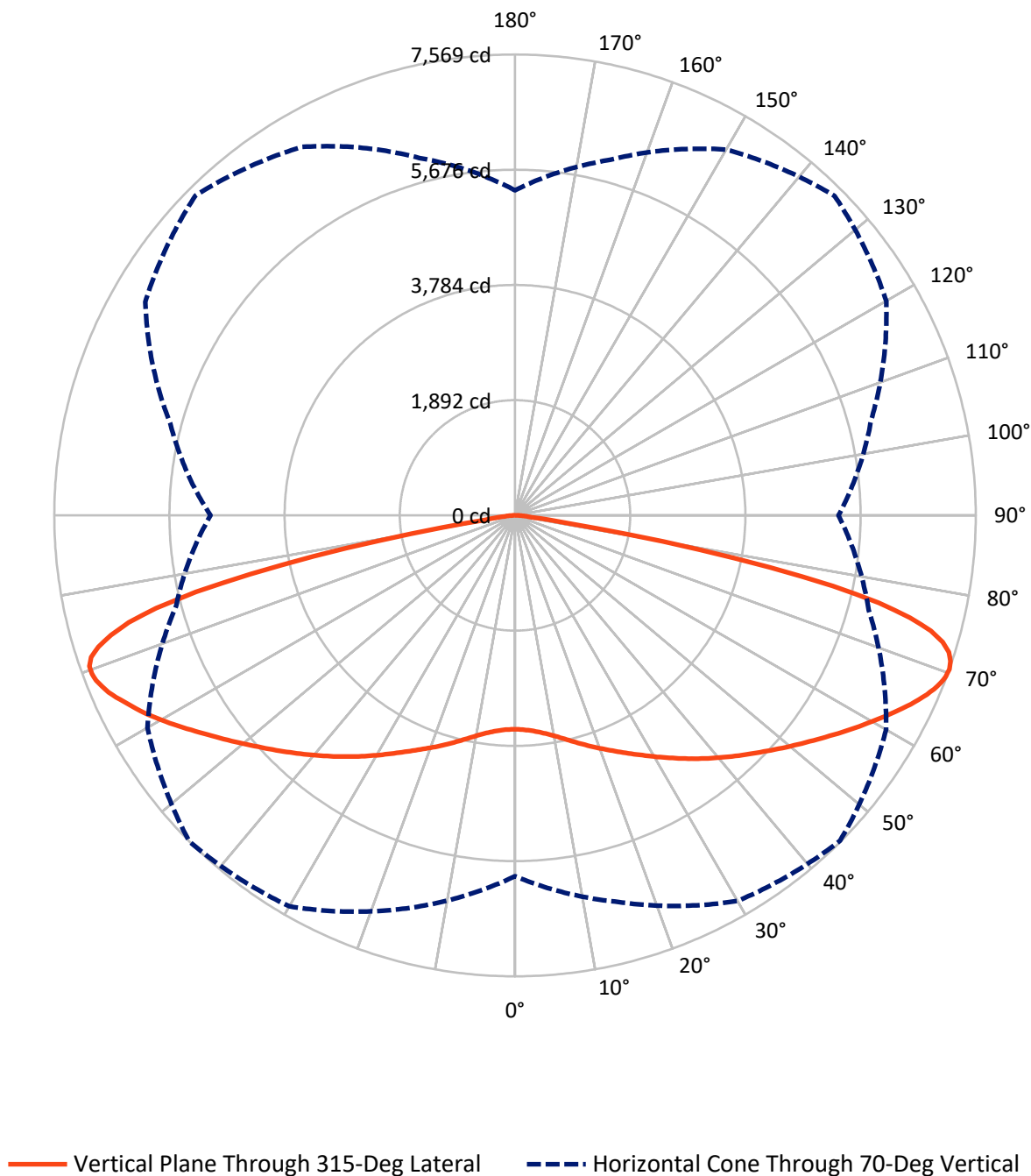


Based on 3 foot mounting height. Maximum calculated value = 391.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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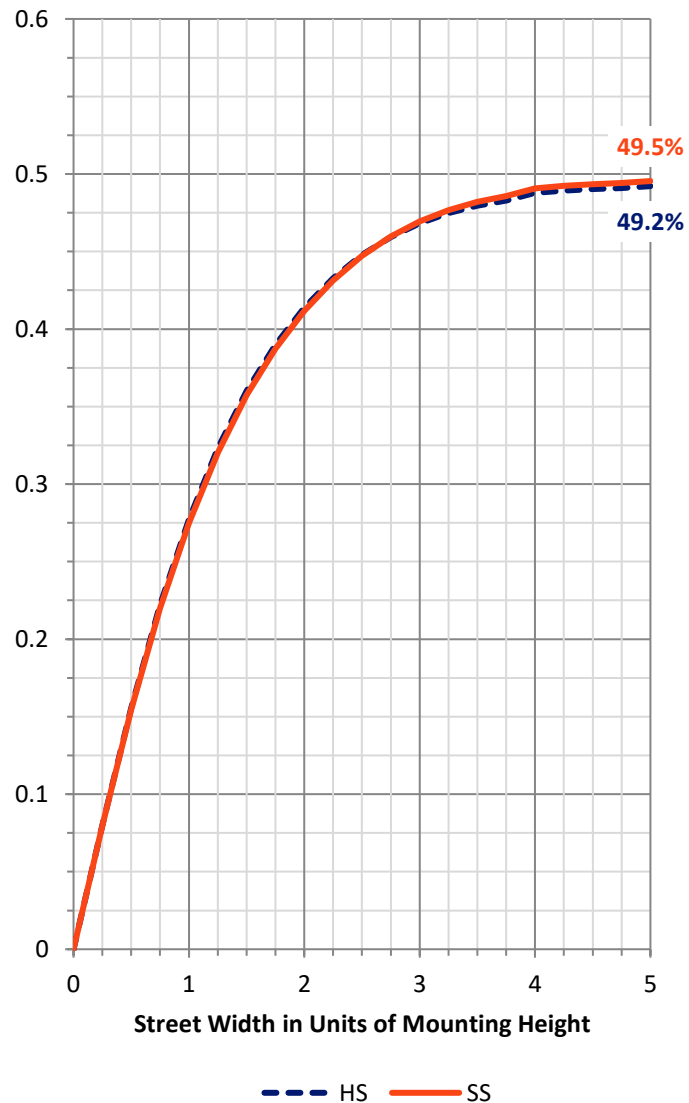
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13754.8	0.0	13754.8
	% Lamp	49.0	0.0	49.0
Street Side	Lumens	13886.6	0.0	13886.6
	% Lamp	49.5	0.0	49.5
Total	Lumens	27641.4	0.0	27641.4
	% Lamp	98.5	0.0	98.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	343.2	1.2	1.2
10°-20°	1098.2	4.0	3.9
20°-30°	1996.8	7.2	7.1
30°-40°	3058.4	11.1	10.9
40°-50°	4262.8	15.4	15.2
50°-60°	5579.3	20.2	19.9
60°-70°	6667.8	24.1	23.8
70°-80°	4417.7	16.0	15.7
80°-90°	217.1	0.8	0.8
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	27641.4	100.0	98.5
0°-180°	27641.4	100.0	98.5

Coefficient of Utilization



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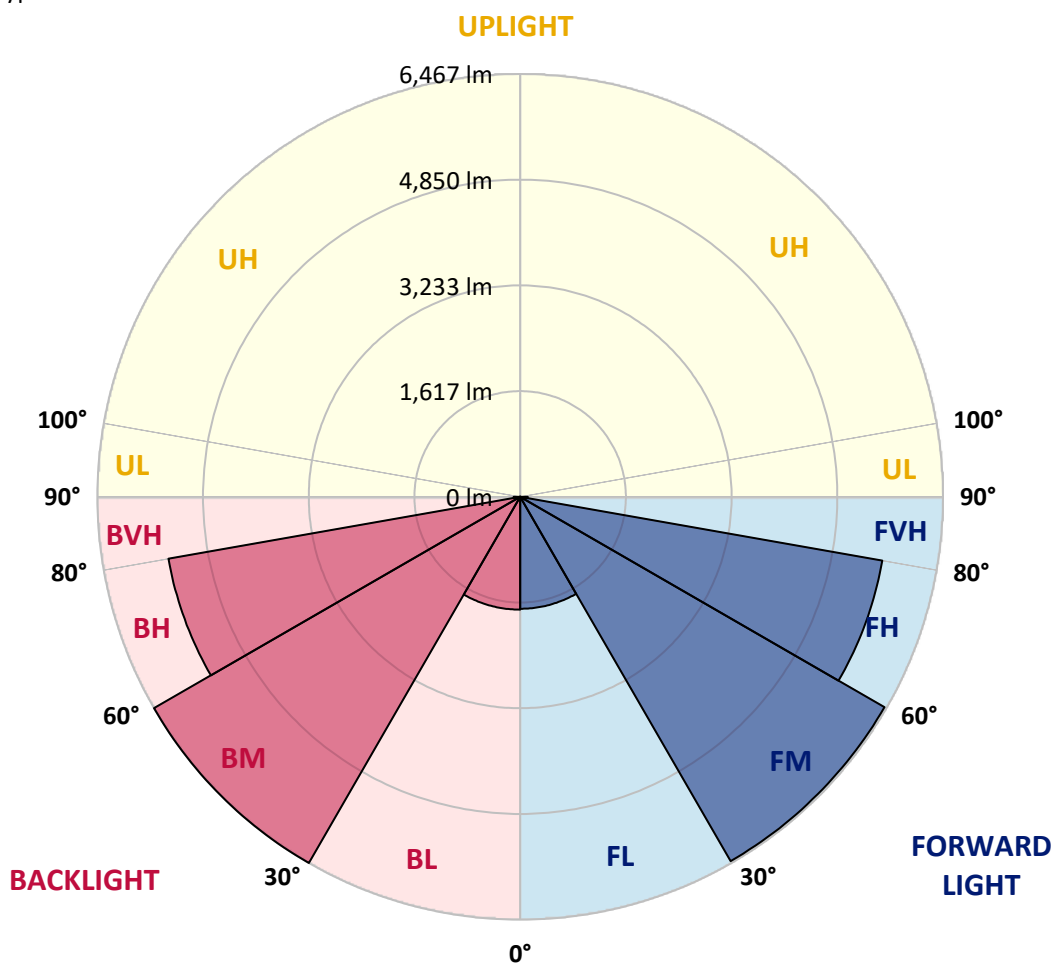
CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1712.4	6.1			
FM	(30°-60°)	6433.9	22.9			
FH	(60°-80°)	5623.8	20.0			G3/7500
FVH	(80°-90°)	116.5	0.4			G2/225
BL	(0°-30°)	1725.8	6.1	B3/2500		
BM	(30°-60°)	6466.7	23.0	B4/8500		
BH	(60°-80°)	5461.7	19.5	B5		G3/7500
BVH	(80°-90°)	100.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		420.6	1.5			

BUG Rating: B5-U0-G3

Type V Short



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CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6
1°	3515.3	3514.6	3515.3	3514.6	3514.7	3514.3	3511.7	3512.0	3512.0	3513.3	3514.0
2°	3520.8	3519.4	3519.1	3518.2	3516.8	3515.6	3513.4	3513.4	3514.0	3515.8	3517.6
3°	3530.0	3527.8	3526.4	3524.1	3523.3	3521.5	3519.2	3518.9	3519.5	3521.7	3524.5
4°	3543.1	3540.3	3537.6	3535.4	3533.1	3530.7	3528.2	3528.0	3528.9	3531.8	3535.4
5°	3558.1	3554.6	3551.6	3547.8	3544.4	3542.4	3539.1	3540.4	3542.7	3546.0	3549.7
6°	3575.1	3570.7	3568.8	3564.3	3559.0	3555.8	3552.5	3553.6	3557.1	3563.0	3567.9
7°	3593.7	3589.3	3588.1	3583.2	3577.9	3573.0	3569.0	3570.7	3574.0	3582.8	3589.4
8°	3615.3	3610.6	3608.4	3604.4	3598.6	3593.2	3590.4	3592.4	3596.2	3604.3	3613.8
9°	3639.0	3634.6	3631.5	3627.6	3622.5	3615.8	3611.9	3614.9	3621.8	3630.2	3639.8
10°	3664.8	3660.6	3657.8	3653.6	3649.1	3641.4	3637.9	3641.0	3649.5	3659.7	3667.9
11°	3693.2	3688.2	3687.1	3683.1	3677.3	3669.8	3665.2	3670.1	3679.5	3692.3	3699.6
12°	3722.1	3715.6	3716.5	3714.2	3707.8	3700.0	3694.3	3700.7	3711.7	3726.0	3734.3
13°	3750.1	3744.0	3747.8	3748.1	3739.9	3732.5	3724.5	3732.4	3746.7	3761.4	3771.6
14°	3781.1	3774.1	3779.1	3782.2	3774.3	3765.3	3756.1	3766.0	3781.2	3799.5	3809.1
15°	3811.6	3805.1	3811.5	3818.2	3809.8	3798.9	3790.0	3799.4	3818.4	3838.4	3846.6
16°	3844.8	3839.7	3845.0	3853.7	3847.0	3835.1	3826.3	3835.5	3856.7	3878.5	3886.6
17°	3880.4	3875.7	3881.9	3890.9	3886.1	3872.0	3862.7	3872.4	3897.5	3917.3	3926.4
18°	3917.4	3911.0	3918.9	3928.1	3924.7	3910.4	3901.1	3911.7	3937.8	3957.6	3964.8
19°	3955.6	3948.6	3957.7	3966.8	3965.1	3950.4	3941.0	3953.2	3979.6	3998.8	4003.4
20°	3996.9	3988.7	3997.0	4006.1	4006.3	3992.8	3983.4	3996.7	4022.5	4039.8	4042.0
21°	4039.1	4030.7	4036.6	4046.7	4048.8	4035.6	4026.1	4041.7	4066.1	4079.5	4082.4
22°	4083.7	4074.6	4078.8	4087.8	4094.3	4080.6	4072.2	4088.3	4112.5	4123.1	4125.0
23°	4130.9	4121.3	4122.1	4131.7	4140.3	4127.7	4119.2	4137.6	4159.2	4166.9	4170.0
24°	4180.5	4169.7	4167.1	4176.6	4187.1	4175.6	4168.8	4187.7	4208.1	4212.6	4216.3
25°	4232.3	4219.7	4214.2	4224.4	4236.7	4225.6	4221.0	4240.0	4256.4	4260.0	4262.1
26°	4286.3	4271.3	4263.3	4272.7	4286.1	4274.9	4274.0	4292.8	4306.1	4308.3	4309.1
27°	4341.9	4323.9	4312.5	4323.2	4335.3	4325.3	4327.8	4346.4	4356.6	4358.7	4357.7
28°	4400.0	4377.2	4363.3	4374.4	4385.6	4377.0	4383.7	4399.3	4409.1	4410.8	4406.8
29°	4459.3	4431.1	4416.1	4428.2	4436.0	4429.2	4442.4	4453.2	4461.4	4464.9	4458.2
30°	4519.7	4485.0	4470.0	4482.5	4487.7	4483.1	4502.4	4508.3	4514.8	4519.5	4509.9
31°	4581.2	4540.4	4526.1	4538.7	4539.6	4535.5	4563.1	4562.9	4568.8	4575.7	4564.3
32°	4642.3	4595.8	4581.8	4595.5	4592.0	4591.9	4622.7	4619.5	4624.1	4632.8	4618.8
33°	4703.3	4652.7	4640.5	4651.5	4647.5	4646.3	4684.1	4674.1	4680.5	4689.8	4675.0
34°	4764.6	4709.4	4698.1	4708.8	4702.6	4699.6	4744.0	4728.7	4737.2	4745.9	4731.4
35°	4829.6	4765.6	4757.3	4766.9	4758.8	4753.2	4805.8	4782.8	4794.5	4804.5	4790.8
36°	4893.6	4823.6	4817.8	4826.2	4817.2	4809.0	4867.1	4838.4	4854.7	4863.9	4851.7
37°	4957.8	4882.3	4879.5	4886.9	4875.9	4862.6	4928.0	4894.8	4914.3	4924.3	4913.8
38°	5022.9	4943.2	4941.4	4947.3	4934.4	4919.0	4991.0	4950.1	4972.5	4984.7	4975.4
39°	5086.7	5004.2	5002.7	5008.5	4993.1	4977.3	5054.8	5007.3	5032.9	5044.6	5035.8
40°	5150.0	5067.8	5064.0	5070.8	5052.8	5036.2	5118.3	5066.2	5093.7	5107.1	5098.9
41°	5212.1	5132.5	5127.3	5132.8	5114.4	5097.2	5181.6	5127.8	5153.7	5169.7	5159.1
42°	5277.1	5198.8	5192.2	5197.7	5176.5	5159.2	5242.5	5190.0	5215.9	5234.7	5225.1
43°	5340.2	5267.9	5258.0	5263.5	5240.9	5223.8	5301.6	5254.8	5278.6	5300.6	5290.5
44°	5401.8	5338.8	5324.5	5330.1	5305.2	5290.3	5358.5	5321.3	5341.3	5365.5	5357.3

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CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5463.7	5409.5	5392.8	5396.0	5370.7	5359.7	5414.0	5388.6	5405.3	5432.5	5426.3
46°	5525.8	5484.3	5463.5	5464.8	5439.3	5431.2	5470.3	5459.1	5470.3	5500.7	5496.1
47°	5589.9	5563.5	5536.9	5536.7	5510.2	5505.2	5528.5	5529.7	5539.1	5571.9	5570.0
48°	5655.1	5641.5	5611.1	5610.0	5580.7	5580.3	5583.2	5603.2	5610.5	5642.0	5644.8
49°	5722.6	5723.6	5689.3	5685.6	5653.7	5656.1	5637.5	5675.6	5682.5	5714.7	5718.5
50°	5791.4	5803.6	5767.6	5761.7	5726.2	5732.7	5692.0	5747.9	5753.9	5791.4	5795.5
51°	5861.9	5886.5	5848.1	5839.5	5803.2	5808.0	5749.1	5818.8	5828.1	5868.9	5876.8
52°	5934.4	5971.1	5933.0	5922.7	5881.5	5882.3	5807.6	5892.0	5904.5	5950.7	5957.3
53°	6007.0	6054.1	6019.5	6004.9	5959.4	5954.1	5863.3	5963.8	5980.7	6030.7	6039.5
54°	6079.7	6136.8	6107.3	6092.8	6038.6	6024.1	5918.7	6032.4	6059.7	6112.6	6122.0
55°	6149.4	6212.6	6197.0	6179.4	6117.1	6089.8	5973.0	6094.7	6139.4	6201.0	6208.6
56°	6214.9	6287.8	6288.8	6270.7	6198.0	6151.7	6025.1	6157.2	6218.9	6289.8	6297.4
57°	6276.9	6358.4	6380.6	6366.4	6277.8	6209.0	6071.8	6213.5	6297.7	6380.6	6383.8
58°	6335.0	6425.1	6474.3	6463.6	6356.7	6260.1	6111.6	6263.6	6376.6	6474.6	6466.5
59°	6387.4	6487.0	6570.2	6561.9	6436.1	6302.4	6148.8	6310.0	6453.7	6570.3	6546.3
60°	6434.5	6543.1	6664.3	6664.3	6512.2	6338.4	6177.9	6349.4	6527.3	6667.2	6623.2
61°	6473.0	6593.8	6755.4	6766.1	6587.7	6370.5	6200.7	6383.6	6603.5	6762.5	6700.6
62°	6503.1	6636.1	6844.8	6870.9	6660.5	6393.5	6213.5	6408.6	6674.2	6856.7	6774.7
63°	6529.6	6674.5	6931.9	6976.5	6735.2	6405.6	6214.2	6428.0	6745.2	6943.6	6844.1
64°	6553.1	6705.5	7011.5	7080.9	6805.2	6408.1	6204.2	6439.7	6815.9	7027.7	6909.4
65°	6576.2	6731.9	7088.6	7183.7	6872.1	6406.9	6186.9	6441.9	6881.3	7113.7	6966.5
66°	6589.5	6757.0	7157.1	7282.2	6930.2	6394.1	6161.0	6432.5	6940.0	7199.9	7019.8
67°	6589.5	6774.5	7215.6	7373.6	6978.1	6371.1	6118.5	6412.4	6988.3	7279.4	7062.7
68°	6528.8	6771.0	7265.6	7454.1	7011.3	6333.3	5988.0	6370.8	7026.5	7342.6	7035.3
69°	6334.1	6719.8	7298.0	7514.4	7030.7	6229.5	5714.2	6267.1	7045.3	7392.6	6970.8
70°	5924.0	6571.9	7310.2	7552.7	7038.2	6014.8	5314.3	6056.7	7042.3	7421.3	6936.3
71°	5275.4	6238.4	7293.1	7568.5	6990.6	5681.4	4819.2	5726.2	6985.8	7416.7	6840.3
72°	4599.4	5693.1	7235.1	7546.1	6868.6	5255.6	4367.6	5292.8	6838.1	7340.1	6679.6
73°	3883.1	4982.4	7093.7	7467.3	6659.9	4798.2	4019.3	4825.1	6590.9	7174.4	6477.4
74°	3054.9	4207.1	6783.1	7299.2	6367.7	4382.4	3581.9	4395.0	6268.4	6922.3	6143.5
75°	2022.7	3362.5	6214.6	7000.5	5984.2	3919.7	2736.9	3940.6	5858.3	6586.1	5646.1
76°	1045.9	2359.8	5447.3	6520.4	5530.4	3224.8	1891.9	3277.5	5406.1	6089.8	4967.3
77°	756.8	1269.5	4616.3	5818.1	4973.0	2170.3	1048.1	2373.5	4867.5	5389.0	4125.9
78°	483.7	912.5	3608.1	4787.5	4198.0	1124.9	451.3	1469.5	4121.1	4456.5	3117.4
79°	210.6	568.2	2340.6	3648.2	3114.8	813.3	355.5	571.9	3074.3	3372.4	2108.9
80°	175.0	223.9	1194.2	2375.6	1886.0	510.0	259.6	441.7	2027.3	2281.5	1104.0
81°	149.6	184.4	863.7	1202.3	926.5	206.7	165.8	311.5	990.3	1201.7	507.2
82°	127.5	155.8	546.5	864.5	683.0	175.9	141.6	181.4	440.9	486.0	387.0
83°	106.9	130.1	229.3	549.7	447.0	148.9	119.9	153.0	346.5	379.3	266.7
84°	88.4	106.7	179.7	234.9	211.1	123.9	99.3	126.9	252.0	272.6	147.4
85°	69.8	87.3	137.2	193.7	160.4	101.4	80.0	103.3	158.5	166.5	106.6
86°	51.2	67.9	102.9	155.8	117.8	81.4	62.0	82.0	113.7	130.4	71.4
87°	34.6	48.6	74.9	114.5	86.5	61.5	44.1	62.1	82.1	92.6	44.4
88°	19.9	31.5	46.9	91.8	55.7	41.6	30.8	44.1	56.8	57.7	31.5
89°	8.0	13.5	19.0	69.6	24.8	22.3	17.5	30.5	39.1	39.9	18.6

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CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1445006
CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6
1°	3514.7	3515.4	3516.1	3517.1	3517.7	3518.3	3518.7	3516.4	3516.0	3515.6	3516.2
2°	3519.0	3520.9	3521.5	3523.5	3524.6	3525.0	3525.5	3523.4	3523.6	3522.8	3523.0
3°	3526.4	3529.5	3531.5	3533.4	3535.3	3536.0	3537.1	3534.3	3534.5	3533.6	3534.2
4°	3538.6	3542.2	3544.6	3546.9	3549.1	3550.0	3551.2	3549.1	3548.4	3547.7	3547.2
5°	3553.6	3558.3	3561.1	3564.5	3566.2	3567.3	3567.7	3565.2	3564.9	3564.0	3563.4
6°	3572.8	3577.5	3581.8	3585.4	3587.1	3587.1	3587.3	3584.3	3584.4	3583.8	3583.2
7°	3595.3	3599.7	3605.0	3609.1	3610.7	3611.8	3612.9	3608.9	3608.4	3607.0	3606.4
8°	3619.8	3625.0	3630.8	3636.0	3638.5	3640.6	3639.6	3634.9	3634.0	3632.6	3630.7
9°	3646.4	3652.3	3659.3	3666.2	3670.0	3670.8	3668.5	3661.8	3662.0	3661.5	3659.6
10°	3675.8	3682.9	3690.9	3699.3	3703.9	3703.9	3700.0	3693.4	3692.9	3693.7	3689.7
11°	3708.3	3716.1	3725.4	3735.6	3740.8	3740.0	3735.1	3728.0	3727.9	3728.7	3723.6
12°	3742.1	3750.1	3761.6	3773.8	3780.1	3778.5	3772.6	3764.1	3765.2	3765.1	3759.2
13°	3776.8	3784.7	3797.6	3815.0	3822.5	3820.2	3811.4	3802.9	3804.3	3804.3	3797.1
14°	3813.3	3820.6	3835.7	3855.7	3866.1	3863.0	3853.2	3843.0	3845.0	3846.2	3836.7
15°	3850.1	3856.7	3874.3	3897.9	3911.5	3907.9	3895.8	3884.6	3887.6	3890.0	3877.2
16°	3887.8	3894.4	3913.1	3940.0	3957.7	3956.1	3940.3	3927.6	3931.1	3933.7	3918.3
17°	3925.7	3932.2	3952.9	3982.5	4004.3	4002.6	3987.2	3973.1	3975.9	3978.6	3961.3
18°	3964.8	3971.2	3993.7	4024.2	4050.3	4051.4	4034.6	4018.5	4023.1	4024.8	4004.6
19°	4004.3	4012.9	4034.1	4066.9	4097.6	4099.7	4082.2	4065.7	4070.7	4071.3	4046.8
20°	4044.7	4054.7	4076.8	4112.6	4143.8	4149.7	4132.0	4114.9	4120.4	4119.5	4091.1
21°	4087.4	4097.7	4120.9	4157.5	4191.2	4201.1	4184.7	4166.0	4170.1	4168.6	4135.0
22°	4131.8	4142.7	4166.9	4205.0	4241.4	4253.2	4238.3	4217.7	4222.9	4218.4	4182.5
23°	4175.8	4189.0	4215.7	4254.7	4291.5	4307.6	4290.7	4271.9	4277.5	4268.7	4231.2
24°	4223.6	4238.3	4265.2	4305.0	4343.9	4361.1	4345.2	4327.2	4331.8	4319.3	4278.7
25°	4270.6	4287.8	4315.8	4355.7	4397.0	4415.1	4402.2	4383.8	4386.5	4371.9	4328.0
26°	4320.4	4341.5	4368.1	4409.0	4451.2	4469.3	4458.5	4443.1	4441.0	4423.9	4380.3
27°	4370.2	4394.8	4420.4	4461.9	4504.8	4523.1	4514.6	4502.0	4496.1	4476.3	4432.0
28°	4420.9	4453.4	4474.0	4516.4	4562.6	4579.8	4572.3	4564.4	4552.5	4530.6	4487.0
29°	4473.3	4511.7	4529.1	4572.8	4619.0	4635.4	4630.7	4626.4	4608.9	4586.6	4544.4
30°	4527.4	4573.3	4585.3	4628.4	4676.8	4691.9	4688.4	4688.6	4664.8	4641.2	4602.6
31°	4582.9	4635.2	4642.1	4684.4	4731.8	4748.5	4744.8	4752.3	4721.3	4696.4	4661.0
32°	4638.5	4697.9	4699.3	4740.8	4790.4	4807.4	4803.5	4815.5	4776.1	4751.3	4719.6
33°	4695.7	4761.5	4756.6	4799.9	4848.9	4866.8	4861.6	4879.0	4833.0	4810.0	4780.8
34°	4752.7	4824.9	4813.0	4860.0	4909.2	4925.7	4920.4	4943.6	4889.4	4868.2	4842.0
35°	4808.6	4891.3	4872.1	4921.3	4969.6	4985.6	4978.2	5008.1	4947.7	4928.8	4906.2
36°	4866.3	4957.8	4931.7	4982.9	5029.4	5044.0	5036.8	5073.6	5005.7	4989.5	4969.2
37°	4922.9	5024.1	4992.1	5045.1	5090.1	5103.3	5097.7	5139.4	5065.6	5051.4	5032.5
38°	4982.5	5089.8	5054.1	5108.2	5152.4	5164.5	5158.1	5204.8	5125.7	5113.8	5097.1
39°	5043.4	5156.2	5116.6	5172.6	5216.4	5225.2	5220.9	5269.3	5186.5	5177.5	5160.6
40°	5107.0	5218.2	5182.1	5238.3	5280.0	5288.4	5283.6	5331.2	5248.9	5242.4	5225.7
41°	5173.3	5280.8	5248.2	5304.4	5346.2	5350.7	5346.6	5391.0	5313.0	5307.9	5290.7
42°	5238.6	5341.7	5317.3	5369.7	5411.5	5415.5	5411.3	5450.5	5380.2	5374.8	5358.6
43°	5306.5	5401.7	5386.8	5436.2	5479.8	5483.8	5479.6	5510.7	5449.4	5441.0	5424.4
44°	5376.5	5461.9	5458.1	5505.0	5548.8	5551.8	5548.4	5573.1	5520.5	5507.9	5493.2

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	5447.8	5523.3	5530.5	5576.6	5620.1	5621.0	5621.4	5633.4	5593.0	5577.2	5562.5
46°	5522.0	5583.1	5606.0	5646.8	5692.0	5690.0	5694.0	5688.2	5669.1	5647.7	5633.6
47°	5599.8	5641.6	5682.7	5717.8	5764.8	5759.4	5766.5	5742.7	5741.8	5718.8	5707.8
48°	5678.6	5703.1	5761.9	5791.4	5838.5	5830.6	5837.7	5798.5	5815.3	5790.3	5783.2
49°	5757.9	5769.0	5843.3	5865.3	5914.8	5902.3	5908.4	5855.5	5887.5	5862.9	5859.4
50°	5841.1	5833.9	5926.0	5943.1	5990.9	5975.2	5977.6	5913.3	5959.0	5938.2	5937.0
51°	5928.6	5900.7	6008.6	6021.2	6069.4	6046.9	6046.4	5965.6	6028.1	6013.3	6016.6
52°	6012.0	5964.0	6089.1	6099.4	6149.4	6118.9	6112.0	6018.6	6095.4	6088.2	6098.0
53°	6087.0	6016.6	6163.7	6180.8	6231.4	6190.9	6173.0	6068.1	6155.7	6161.1	6180.1
54°	6152.0	6055.5	6231.5	6263.3	6314.6	6265.2	6229.5	6112.1	6213.1	6238.5	6266.3
55°	6211.1	6095.6	6290.0	6346.5	6399.7	6336.8	6282.4	6154.2	6265.4	6312.5	6355.8
56°	6271.4	6140.9	6347.3	6433.5	6486.2	6406.5	6329.7	6192.2	6312.7	6385.5	6448.0
57°	6328.4	6188.3	6403.6	6518.3	6572.9	6477.0	6371.4	6223.8	6352.7	6455.9	6537.0
58°	6382.1	6221.5	6458.0	6605.4	6661.0	6546.3	6406.7	6254.6	6386.1	6526.3	6630.4
59°	6423.4	6244.7	6498.1	6687.6	6753.1	6612.1	6436.6	6280.3	6413.6	6593.9	6723.2
60°	6457.3	6273.5	6531.8	6764.7	6843.6	6676.0	6463.7	6299.8	6437.1	6661.3	6817.9
61°	6490.1	6301.9	6564.4	6843.4	6935.0	6740.2	6485.2	6307.6	6459.4	6726.4	6913.2
62°	6521.2	6325.1	6594.6	6918.0	7018.5	6806.0	6499.6	6309.8	6472.4	6788.6	7010.0
63°	6549.4	6344.1	6622.8	6986.5	7094.3	6865.3	6505.6	6307.8	6475.6	6846.4	7105.7
64°	6574.6	6347.8	6646.7	7049.3	7165.8	6922.4	6508.8	6292.1	6471.7	6899.3	7201.7
65°	6570.9	6288.1	6637.7	7104.8	7235.5	6972.1	6499.1	6264.4	6457.3	6944.0	7292.2
66°	6489.9	6235.5	6548.6	7148.1	7301.9	7011.7	6482.3	6224.7	6434.8	6981.9	7378.0
67°	6438.1	6203.0	6493.0	7172.6	7353.7	7044.9	6448.9	6128.5	6395.3	7009.5	7451.4
68°	6406.8	6097.5	6445.3	7123.6	7394.3	7066.4	6367.0	5899.9	6302.0	7025.2	7512.6
69°	6280.9	5821.2	6306.4	7041.2	7421.1	7059.8	6189.0	5512.7	6101.7	7015.1	7555.0
70°	6044.5	5338.1	6076.7	6986.8	7424.8	7013.1	5865.4	5001.7	5763.8	6970.7	7568.6
71°	5683.5	4643.7	5713.9	6868.0	7389.1	6896.2	5422.7	4491.1	5302.0	6849.6	7542.9
72°	5131.8	4014.5	5152.9	6696.5	7276.0	6678.5	4920.7	4064.5	4798.1	6648.3	7472.1
73°	4457.2	3371.3	4469.4	6462.0	7070.3	6350.3	4434.9	3650.0	4318.9	6341.0	7326.9
74°	3758.5	2526.8	3772.7	6101.2	6775.5	5949.8	3973.9	3084.4	3852.3	5945.1	7088.1
75°	2860.6	1682.4	2878.5	5555.7	6382.1	5463.6	3397.0	2199.8	3248.7	5457.2	6701.6
76°	1962.9	851.1	1984.2	4829.1	5802.4	4933.6	2495.9	1247.0	2352.0	4896.3	6146.3
77°	1073.0	624.1	1097.7	3986.3	5013.0	4293.9	1594.8	895.2	1315.0	4220.6	5348.1
78°	452.8	397.2	474.7	2984.6	3984.9	3401.4	706.4	555.6	952.9	3313.9	4279.9
79°	352.9	175.7	368.2	1982.8	2909.1	2470.4	327.7	216.0	591.1	2196.9	3073.3
80°	253.1	144.9	261.7	988.7	1833.3	1539.4	273.7	180.6	229.4	1205.9	1860.7
81°	153.5	120.6	156.8	444.4	775.1	610.5	219.7	154.4	188.6	871.5	876.5
82°	125.3	99.0	127.9	344.3	334.0	322.7	166.1	131.2	160.0	557.3	566.2
83°	99.9	78.6	102.4	244.3	275.8	262.1	140.0	110.0	134.7	243.1	274.5
84°	77.1	60.8	78.7	145.0	217.7	201.4	116.4	91.3	111.2	187.9	221.5
85°	56.2	43.3	57.3	103.3	159.7	140.7	94.1	72.6	91.4	140.8	183.8
86°	39.8	29.9	40.3	68.2	124.4	101.1	73.8	54.0	71.5	102.8	147.3
87°	23.4	16.5	23.3	49.2	87.3	73.1	55.1	36.8	51.7	74.3	103.8
88°	7.1	3.3	6.4	30.1	59.6	50.3	38.0	21.5	34.6	46.1	83.3
89°	5.1	3.0	4.7	11.1	31.9	27.5	20.9	8.7	15.6	17.9	63.3

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1445006
CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3513.6	3513.6	3513.6
1°	3516.3	3515.3	3515.3
2°	3522.7	3522.0	3520.8
3°	3533.0	3532.0	3530.0
4°	3546.8	3545.1	3543.1
5°	3562.5	3560.5	3558.1
6°	3581.1	3578.9	3575.1
7°	3601.6	3598.6	3593.7
8°	3625.1	3620.1	3615.3
9°	3652.0	3645.2	3639.0
10°	3681.2	3672.8	3664.8
11°	3712.7	3702.5	3693.2
12°	3746.3	3733.2	3722.1
13°	3782.2	3764.3	3750.1
14°	3817.5	3796.3	3781.1
15°	3853.1	3829.1	3811.6
16°	3891.1	3863.9	3844.8
17°	3929.1	3901.0	3880.4
18°	3969.0	3938.8	3917.4
19°	4009.9	3977.5	3955.6
20°	4049.8	4016.5	3996.9
21°	4092.5	4059.1	4039.1
22°	4137.1	4103.2	4083.7
23°	4183.7	4149.1	4130.9
24°	4231.5	4196.5	4180.5
25°	4279.3	4246.6	4232.3
26°	4331.1	4297.9	4286.3
27°	4384.5	4350.5	4341.9
28°	4438.0	4403.6	4400.0
29°	4494.9	4458.2	4459.3
30°	4553.0	4513.3	4519.7
31°	4611.1	4571.3	4581.2
32°	4669.5	4629.0	4642.3
33°	4728.7	4687.7	4703.3
34°	4788.1	4744.4	4764.6
35°	4849.7	4802.7	4829.6
36°	4914.0	4860.6	4893.6
37°	4976.0	4921.5	4957.8
38°	5040.7	4983.5	5022.9
39°	5103.9	5045.5	5086.7
40°	5170.5	5110.7	5150.0
41°	5236.3	5176.9	5212.1
42°	5304.1	5246.3	5277.1
43°	5372.6	5316.9	5340.2
44°	5441.4	5387.1	5401.8

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5512.0	5462.9	5463.7
46°	5584.2	5538.0	5525.8
47°	5657.7	5617.5	5589.9
48°	5734.1	5698.4	5655.1
49°	5812.3	5782.8	5722.6
50°	5892.8	5867.2	5791.4
51°	5975.0	5954.1	5861.9
52°	6059.7	6039.4	5934.4
53°	6147.8	6125.1	6007.0
54°	6233.7	6209.2	6079.7
55°	6323.8	6292.6	6149.4
56°	6416.3	6370.1	6214.9
57°	6507.1	6441.5	6276.9
58°	6601.3	6507.1	6335.0
59°	6692.5	6567.9	6387.4
60°	6783.8	6623.1	6434.5
61°	6875.0	6670.1	6473.0
62°	6964.0	6712.4	6503.1
63°	7049.5	6747.9	6529.6
64°	7134.9	6781.9	6553.1
65°	7213.5	6812.5	6576.2
66°	7286.8	6841.4	6589.5
67°	7346.2	6860.1	6589.5
68°	7391.6	6857.9	6528.8
69°	7413.7	6810.4	6334.1
70°	7413.1	6671.7	5924.0
71°	7378.7	6367.5	5275.4
72°	7292.7	5823.8	4599.4
73°	7112.1	5103.9	3883.1
74°	6754.7	4293.6	3054.9
75°	6164.5	3445.0	2022.7
76°	5406.0	2468.4	1045.9
77°	4531.7	1368.4	756.8
78°	3448.8	986.8	483.7
79°	2179.6	607.6	210.6
80°	1120.8	228.3	175.0
81°	804.2	192.1	149.6
82°	514.6	162.3	127.5
83°	224.9	134.9	106.9
84°	177.8	110.8	88.4
85°	134.6	90.4	69.8
86°	101.0	70.1	51.2
87°	72.8	49.8	34.6
88°	44.6	31.6	19.9
89°	16.5	12.9	8.0

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

REPORT NUMBER: P1445006

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)