

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: P1445030

Luminaire Tested: XAS180-SFPM (5000K-180W-T5)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445030
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 (5000K-180W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 5
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 26975.9 lumens
Efficiency: 96.1%
Efficacy: 149.4 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

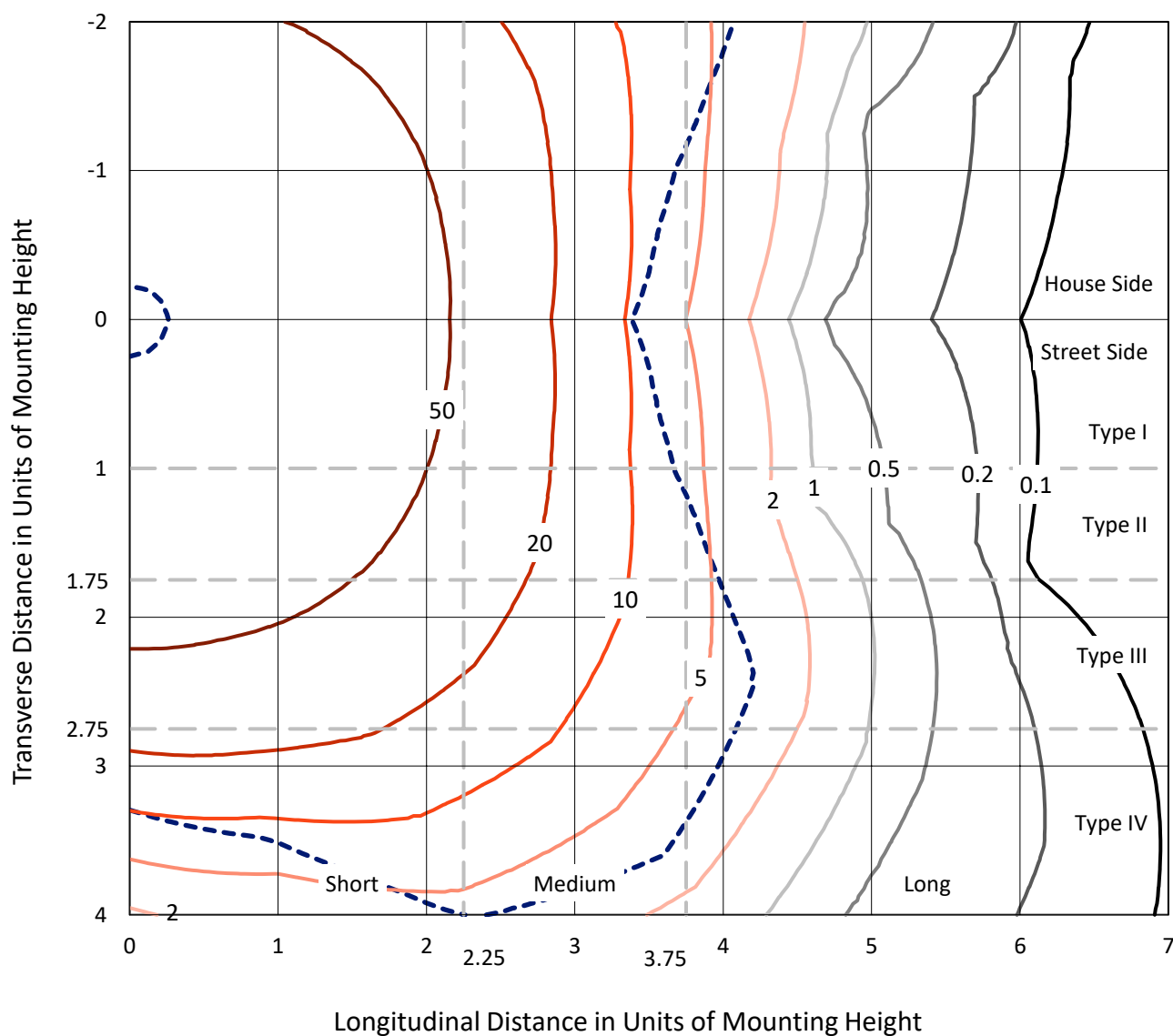
Input Watts (W): 180.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

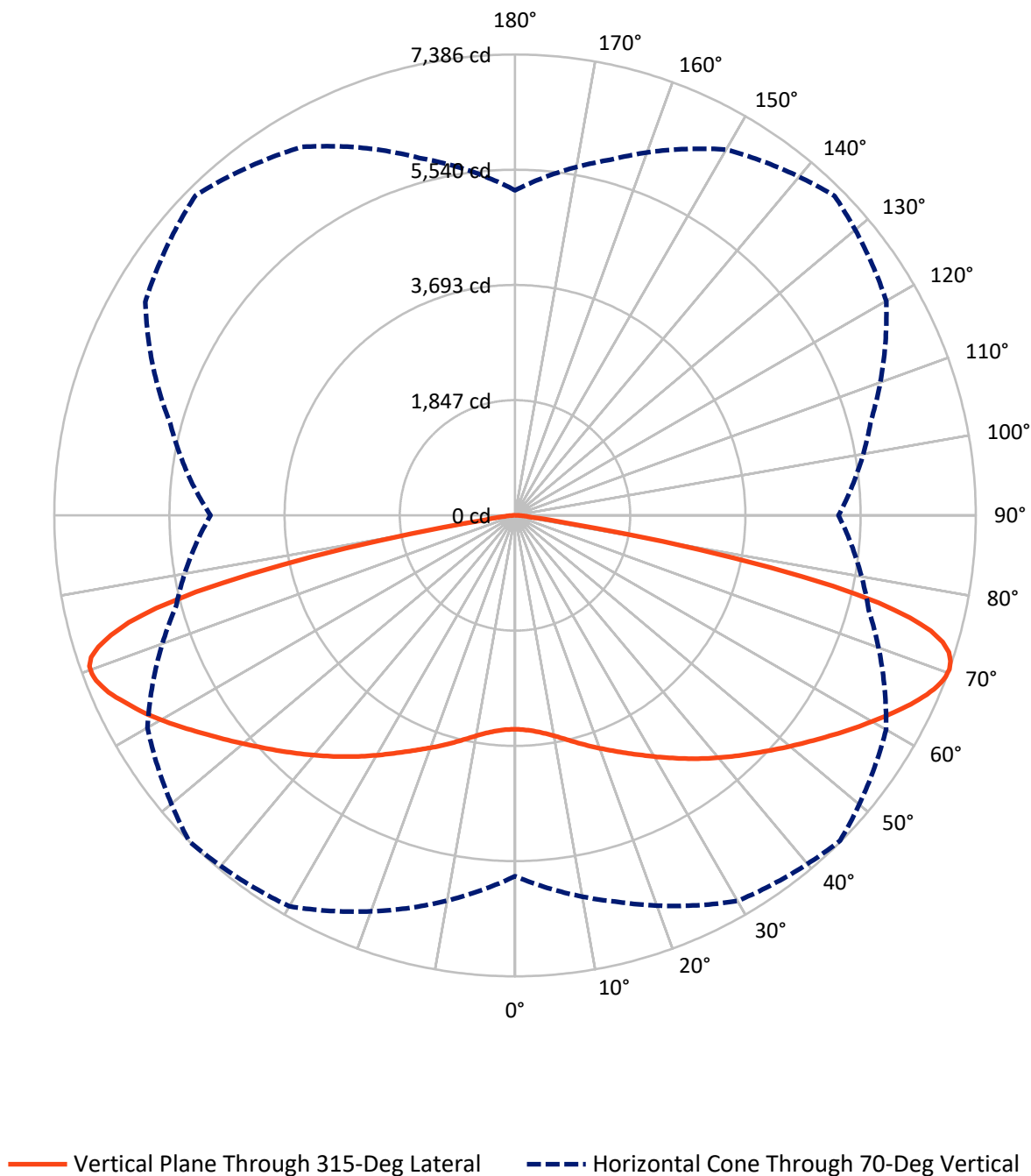


Based on 3 foot mounting height. Maximum calculated value = 381.7 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

Luminous Intensity Polar Plot



REPORT NUMBER: P1445030

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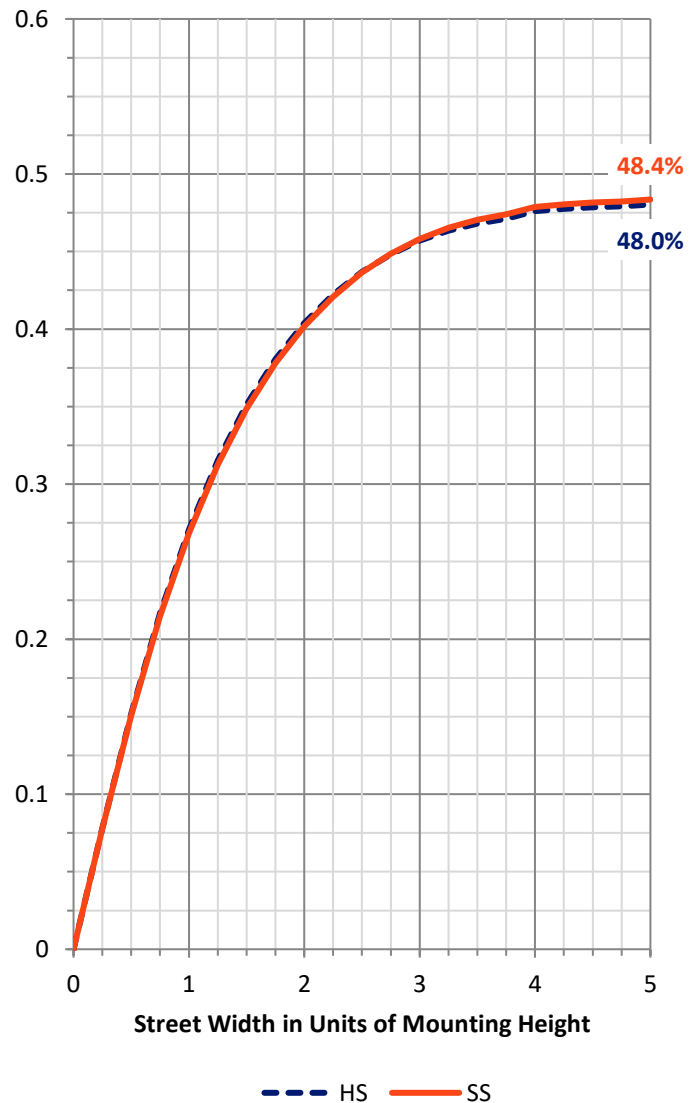
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13423.7	0.0	13423.7
	% Lamp	47.8	0.0	47.8
Street Side	Lumens	13552.3	0.0	13552.3
	% Lamp	48.3	0.0	48.3
Total	Lumens	26975.9	0.0	26975.9
	% Lamp	96.1	0.0	96.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	334.9	1.2	1.2
10°-20°	1071.8	4.0	3.8
20°-30°	1948.7	7.2	6.9
30°-40°	2984.8	11.1	10.6
40°-50°	4160.2	15.4	14.8
50°-60°	5445.0	20.2	19.4
60°-70°	6507.3	24.1	23.2
70°-80°	4311.3	16.0	15.4
80°-90°	211.9	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°	26975.9	100.0	96.1
0°-180°	26975.9	100.0	96.1

Coefficient of Utilization



REPORT NUMBER: P1445030

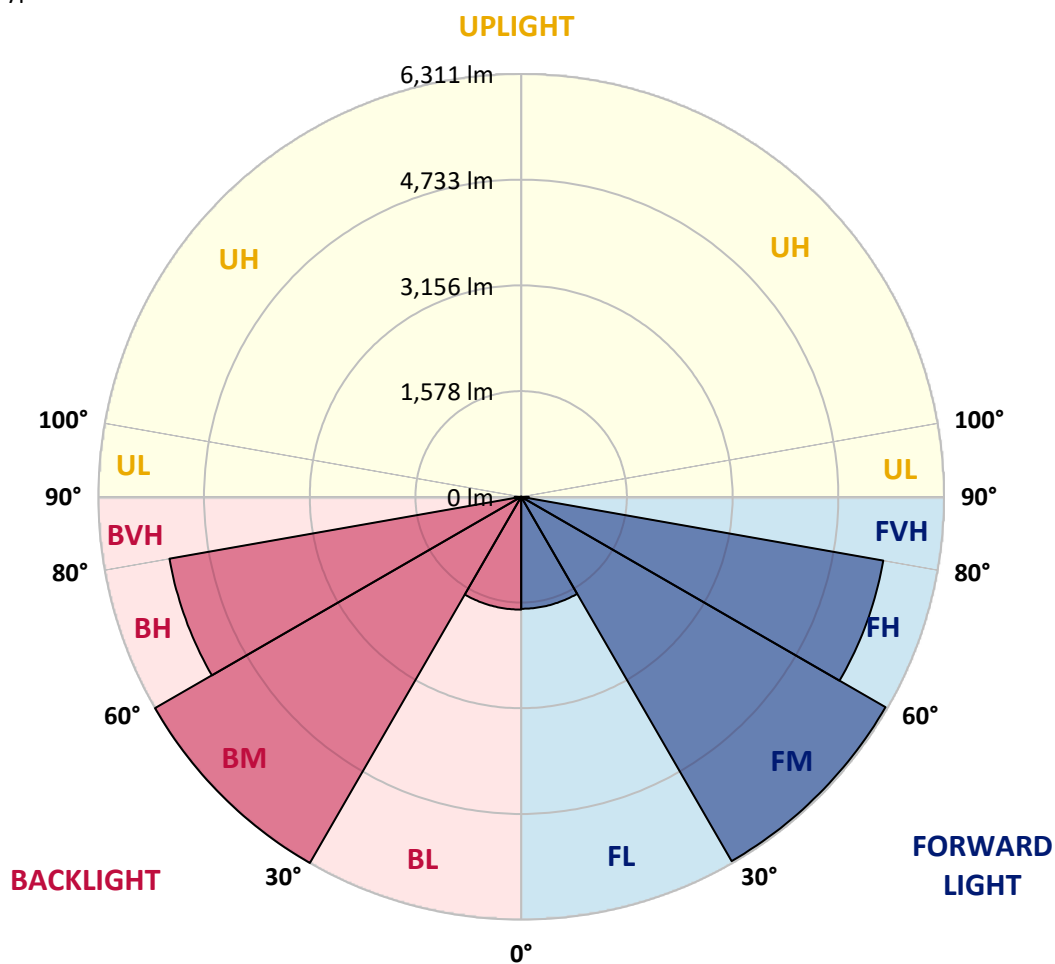
CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1671.2	6.0			
FM	(30°-60°)	6279.0	22.4			
FH	(60°-80°)	5488.4	19.6			G3/7500
FVH	(80°-90°)	113.7	0.4			G2/225
BL	(0°-30°)	1684.2	6.0	B3/2500		
BM	(30°-60°)	6311.1	22.5	B4/8500		
BH	(60°-80°)	5330.2	19.0	B5		G3/7500
BVH	(80°-90°)	98.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		1086.1	3.9			

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0
1°	3430.6	3430.0	3430.6	3430.0	3430.1	3429.7	3427.2	3427.5	3427.5	3428.7	3429.4
2°	3436.0	3434.7	3434.4	3433.5	3432.2	3430.9	3428.8	3428.8	3429.4	3431.1	3432.9
3°	3445.1	3442.8	3441.5	3439.3	3438.5	3436.7	3434.5	3434.2	3434.8	3436.9	3439.7
4°	3457.8	3455.1	3452.5	3450.2	3448.0	3445.7	3443.2	3443.0	3443.9	3446.8	3450.2
5°	3472.5	3469.0	3466.1	3462.4	3459.1	3457.1	3453.9	3455.1	3457.4	3460.6	3464.3
6°	3489.0	3484.8	3482.8	3478.5	3473.3	3470.1	3467.0	3468.0	3471.5	3477.3	3482.0
7°	3507.2	3502.9	3501.7	3497.0	3491.8	3487.0	3483.1	3484.8	3487.9	3496.6	3503.0
8°	3528.3	3523.7	3521.6	3517.6	3512.0	3506.7	3504.0	3505.9	3509.7	3517.5	3526.8
9°	3551.4	3547.1	3544.1	3540.2	3535.3	3528.8	3524.9	3527.8	3534.6	3542.8	3552.1
10°	3576.6	3572.4	3569.7	3565.6	3561.3	3553.8	3550.3	3553.3	3561.7	3571.6	3579.6
11°	3604.2	3599.4	3598.3	3594.4	3588.8	3581.5	3576.9	3581.7	3590.9	3603.4	3610.5
12°	3632.5	3626.2	3627.0	3624.8	3618.6	3610.9	3605.4	3611.6	3622.3	3636.3	3644.4
13°	3659.8	3653.8	3657.6	3657.9	3649.9	3642.6	3634.8	3642.5	3656.5	3670.9	3680.8
14°	3690.1	3683.3	3688.2	3691.1	3683.5	3674.6	3665.7	3675.4	3690.2	3708.1	3717.4
15°	3719.8	3713.4	3719.7	3726.2	3718.1	3707.5	3698.7	3708.0	3726.4	3746.0	3754.0
16°	3752.2	3747.3	3752.5	3760.9	3754.4	3742.8	3734.2	3743.1	3763.8	3785.2	3793.0
17°	3787.0	3782.4	3788.4	3797.3	3792.6	3778.8	3769.7	3779.2	3803.7	3823.0	3831.9
18°	3823.1	3816.9	3824.6	3833.5	3830.2	3816.2	3807.2	3817.6	3843.0	3862.3	3869.4
19°	3860.3	3853.5	3862.4	3871.3	3869.7	3855.3	3846.1	3858.0	3883.8	3902.5	3907.0
20°	3900.7	3892.6	3900.8	3909.6	3909.8	3896.7	3887.5	3900.5	3925.7	3942.5	3944.7
21°	3941.8	3933.7	3939.4	3949.2	3951.4	3938.5	3929.2	3944.3	3968.2	3981.3	3984.1
22°	3985.4	3976.5	3980.6	3989.3	3995.8	3982.3	3974.1	3989.9	4013.5	4023.8	4025.7
23°	4031.4	4022.1	4022.9	4032.2	4040.7	4028.4	4020.0	4038.0	4059.0	4066.6	4069.6
24°	4079.9	4069.3	4066.8	4076.0	4086.3	4075.1	4068.4	4086.9	4106.8	4111.2	4114.8
25°	4130.5	4118.1	4112.8	4122.7	4134.7	4123.9	4119.4	4137.9	4153.9	4157.5	4159.5
26°	4183.1	4168.4	4160.6	4169.9	4182.9	4172.0	4171.1	4189.5	4202.5	4204.6	4205.3
27°	4237.3	4219.8	4208.7	4219.1	4230.9	4221.2	4223.6	4241.8	4251.7	4253.8	4252.8
28°	4294.1	4271.9	4258.2	4269.1	4280.0	4271.7	4278.2	4293.4	4302.9	4304.6	4300.7
29°	4351.9	4324.4	4309.7	4321.6	4329.2	4322.6	4335.4	4346.0	4353.9	4357.4	4350.9
30°	4410.9	4377.0	4362.4	4374.6	4379.6	4375.2	4394.0	4399.8	4406.1	4410.7	4401.3
31°	4470.9	4431.0	4417.1	4429.4	4430.3	4426.3	4453.2	4453.1	4458.8	4465.6	4454.4
32°	4530.5	4485.2	4471.5	4484.9	4481.4	4481.3	4511.4	4508.2	4512.8	4521.2	4507.6
33°	4590.0	4540.7	4528.8	4539.5	4535.6	4534.5	4571.3	4561.6	4567.8	4576.9	4562.5
34°	4649.9	4596.0	4584.9	4595.4	4589.4	4586.5	4629.7	4614.8	4623.1	4631.7	4617.5
35°	4713.3	4650.9	4642.7	4652.1	4644.3	4638.8	4690.1	4667.6	4679.1	4688.9	4675.5
36°	4775.8	4707.5	4701.8	4710.0	4701.3	4693.2	4749.9	4721.9	4737.8	4746.8	4734.9
37°	4838.4	4764.8	4762.0	4769.2	4758.6	4745.6	4809.3	4776.9	4795.9	4805.8	4795.5
38°	4902.0	4824.2	4822.4	4828.2	4815.6	4800.6	4870.8	4830.9	4852.8	4864.7	4855.6
39°	4964.3	4883.7	4882.3	4887.9	4872.9	4857.5	4933.1	4886.8	4911.7	4923.1	4914.6
40°	5026.0	4945.8	4942.1	4948.7	4931.1	4915.0	4995.0	4944.2	4971.1	4984.2	4976.1
41°	5086.6	5009.0	5003.9	5009.3	4991.3	4974.5	5056.8	5004.4	5029.6	5045.2	5034.9
42°	5150.1	5073.7	5067.2	5072.6	5051.8	5035.0	5116.2	5065.0	5090.3	5108.7	5099.3
43°	5211.6	5141.0	5131.4	5136.8	5114.7	5098.1	5173.9	5128.3	5151.5	5173.0	5163.2
44°	5271.8	5210.3	5196.3	5201.8	5177.5	5163.0	5229.5	5193.2	5212.7	5236.3	5228.3

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5332.2	5279.3	5262.9	5266.1	5241.4	5230.6	5283.6	5258.9	5275.1	5301.7	5295.6
46°	5392.7	5352.2	5332.0	5333.2	5308.3	5300.4	5338.6	5327.6	5338.6	5368.3	5363.8
47°	5455.3	5429.5	5403.6	5403.4	5377.5	5372.6	5395.4	5396.6	5405.8	5437.8	5435.9
48°	5518.9	5505.7	5476.0	5474.9	5446.4	5446.0	5448.8	5468.3	5475.4	5506.1	5508.9
49°	5584.8	5585.8	5552.3	5548.7	5517.6	5519.9	5501.7	5538.9	5545.7	5577.1	5580.8
50°	5652.0	5663.9	5628.7	5622.9	5588.3	5594.7	5555.0	5609.5	5615.3	5652.0	5656.0
51°	5720.8	5744.7	5707.3	5698.9	5663.5	5668.1	5610.6	5678.7	5687.8	5727.6	5735.3
52°	5791.6	5827.3	5790.2	5780.1	5739.9	5740.7	5667.7	5750.1	5762.3	5807.4	5813.9
53°	5862.4	5908.3	5874.6	5860.3	5816.0	5810.8	5722.1	5820.2	5836.7	5885.5	5894.1
54°	5933.3	5989.1	5960.3	5946.1	5893.3	5879.0	5776.2	5887.2	5913.8	5965.4	5974.6
55°	6001.3	6063.0	6047.8	6030.6	5969.9	5943.1	5829.2	5948.0	5991.6	6051.7	6059.1
56°	6065.2	6136.5	6137.4	6119.7	6048.8	6003.6	5880.1	6009.0	6069.2	6138.4	6145.8
57°	6125.8	6205.3	6227.0	6213.2	6126.7	6059.6	5925.7	6063.9	6146.1	6227.0	6230.1
58°	6182.5	6270.4	6318.4	6308.0	6203.7	6109.4	5964.5	6112.8	6223.1	6318.7	6310.8
59°	6233.6	6330.8	6412.1	6403.9	6281.1	6150.7	6000.7	6158.1	6298.3	6412.2	6388.7
60°	6279.6	6385.5	6503.9	6503.9	6355.4	6185.8	6029.2	6196.5	6370.1	6506.7	6463.8
61°	6317.2	6435.0	6592.8	6603.2	6429.1	6217.1	6051.4	6229.9	6444.6	6599.7	6539.2
62°	6346.5	6476.4	6680.0	6705.4	6500.1	6239.6	6063.9	6254.3	6513.5	6691.6	6611.6
63°	6372.4	6513.8	6765.0	6808.5	6573.1	6251.3	6064.6	6273.3	6582.8	6776.4	6679.3
64°	6395.3	6544.0	6842.7	6910.4	6641.3	6253.8	6054.8	6284.7	6651.8	6858.5	6743.0
65°	6417.8	6569.8	6917.9	7010.7	6706.7	6252.7	6037.9	6286.8	6715.6	6942.4	6798.8
66°	6430.8	6594.3	6984.8	7106.9	6763.3	6240.2	6012.6	6277.7	6772.9	7026.5	6850.8
67°	6430.8	6611.4	7041.9	7196.1	6810.1	6217.7	5971.2	6258.0	6820.0	7104.2	6892.7
68°	6371.6	6608.0	7090.6	7274.6	6842.5	6180.8	5843.8	6217.4	6857.3	7165.8	6865.9
69°	6181.6	6558.0	7122.3	7333.5	6861.5	6079.6	5576.6	6116.2	6875.7	7214.6	6803.0
70°	5781.4	6413.7	7134.2	7370.8	6868.8	5870.0	5186.3	5910.8	6872.7	7242.6	6769.3
71°	5148.4	6088.2	7117.5	7386.3	6822.3	5544.6	4703.2	5588.3	6817.6	7238.1	6675.6
72°	4488.6	5556.0	7060.9	7364.4	6703.2	5129.0	4262.4	5165.4	6673.4	7163.4	6518.8
73°	3789.6	4862.5	6922.9	7287.5	6499.5	4682.7	3922.5	4709.0	6432.2	7001.7	6321.4
74°	2981.3	4105.8	6619.8	7123.5	6214.4	4276.9	3495.6	4289.2	6117.5	6755.6	5995.6
75°	1974.0	3281.5	6064.9	6831.9	5840.1	3825.3	2671.0	3845.7	5717.2	6427.5	5510.2
76°	1020.7	2303.0	5316.2	6363.4	5397.2	3147.2	1846.3	3198.6	5275.9	5943.1	4847.7
77°	738.6	1238.9	4505.2	5678.0	4853.2	2118.0	1022.9	2316.3	4750.3	5259.3	4026.5
78°	472.1	890.6	3521.2	4672.2	4096.9	1097.8	440.4	1434.1	4021.9	4349.2	3042.4
79°	205.6	554.6	2284.2	3560.4	3039.8	793.7	346.9	558.2	3000.3	3291.2	2058.1
80°	170.8	218.5	1165.5	2318.4	1840.6	497.7	253.4	431.1	1978.5	2226.5	1077.4
81°	146.0	180.0	842.9	1173.3	904.2	201.7	161.8	304.0	966.5	1172.8	495.0
82°	124.4	152.1	533.4	843.7	666.5	171.6	138.2	177.0	430.3	474.3	377.6
83°	104.4	126.9	223.8	536.5	436.3	145.3	117.0	149.3	338.1	370.2	260.3
84°	86.2	104.1	175.4	229.3	206.0	120.9	96.9	123.9	246.0	266.1	143.8
85°	68.1	85.2	133.9	189.0	156.5	98.9	78.1	100.8	154.7	162.4	104.1
86°	50.0	66.3	100.4	152.0	114.9	79.4	60.5	80.0	111.0	127.3	69.7
87°	33.8	47.4	73.1	111.8	84.4	60.0	43.1	60.6	80.1	90.4	43.3
88°	19.4	30.8	45.8	89.6	54.3	40.6	30.1	43.0	55.4	56.3	30.7
89°	7.8	13.2	18.5	67.9	24.2	21.8	17.1	29.7	38.2	38.9	18.1

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0	3429.0
1°	3430.1	3430.7	3431.4	3432.5	3433.0	3433.6	3434.0	3431.8	3431.3	3430.9	3431.5
2°	3434.3	3436.1	3436.7	3438.7	3439.8	3440.2	3440.6	3438.6	3438.8	3437.9	3438.1
3°	3441.5	3444.5	3446.5	3448.3	3450.1	3450.8	3452.0	3449.2	3449.4	3448.5	3449.1
4°	3453.4	3456.9	3459.3	3461.5	3463.6	3464.6	3465.7	3463.6	3462.9	3462.3	3461.8
5°	3468.0	3472.6	3475.3	3478.7	3480.3	3481.4	3481.8	3479.4	3479.1	3478.2	3477.6
6°	3486.8	3491.4	3495.5	3499.1	3500.7	3500.7	3500.9	3498.0	3498.1	3497.5	3497.0
7°	3508.8	3513.0	3518.2	3522.2	3523.8	3524.8	3525.9	3522.1	3521.5	3520.1	3519.6
8°	3532.6	3537.7	3543.4	3548.5	3550.9	3552.9	3551.9	3547.4	3546.5	3545.1	3543.3
9°	3558.6	3564.3	3571.2	3577.9	3581.7	3582.4	3580.2	3573.7	3573.9	3573.4	3571.5
10°	3587.3	3594.2	3602.0	3610.2	3614.7	3614.7	3610.9	3604.4	3604.0	3604.7	3600.9
11°	3619.0	3626.6	3635.7	3645.7	3650.8	3650.0	3645.2	3638.3	3638.2	3638.9	3633.9
12°	3652.0	3659.8	3671.1	3683.0	3689.1	3687.5	3681.8	3673.5	3674.5	3674.4	3668.6
13°	3685.9	3693.5	3706.1	3723.2	3730.5	3728.2	3719.6	3711.3	3712.7	3712.7	3705.7
14°	3721.5	3728.6	3743.3	3762.9	3773.0	3770.0	3760.5	3750.5	3752.5	3753.6	3744.3
15°	3757.4	3763.8	3781.0	3804.1	3817.4	3813.8	3802.0	3791.1	3794.0	3796.3	3783.8
16°	3794.2	3800.6	3818.9	3845.1	3862.4	3860.8	3845.4	3833.0	3836.5	3839.0	3824.0
17°	3831.2	3837.5	3857.7	3886.6	3907.9	3906.3	3891.2	3877.4	3880.1	3882.8	3865.9
18°	3869.4	3875.6	3897.5	3927.3	3952.8	3953.9	3937.4	3921.8	3926.3	3927.9	3908.2
19°	3907.9	3916.3	3936.9	3969.0	3998.9	4001.0	3984.0	3967.8	3972.7	3973.3	3949.3
20°	3947.3	3957.0	3978.7	4013.6	4044.0	4049.8	4032.5	4015.9	4021.2	4020.3	3992.6
21°	3988.9	3999.0	4021.7	4057.4	4090.3	4100.0	4083.9	4065.7	4069.7	4068.3	4035.5
22°	4032.3	4043.0	4066.6	4103.7	4139.3	4150.8	4136.2	4116.1	4121.2	4116.8	4081.8
23°	4075.3	4088.2	4114.2	4152.3	4188.2	4203.9	4187.4	4169.1	4174.5	4165.9	4129.3
24°	4121.9	4136.2	4162.6	4201.4	4239.4	4256.1	4240.6	4223.0	4227.5	4215.3	4175.7
25°	4167.7	4184.6	4211.9	4250.8	4291.2	4308.8	4296.2	4278.3	4280.9	4266.7	4223.8
26°	4216.4	4237.0	4262.9	4302.8	4344.0	4361.7	4351.2	4336.2	4334.1	4317.4	4274.8
27°	4265.0	4289.0	4314.0	4354.4	4396.3	4414.2	4405.9	4393.7	4387.9	4368.6	4325.3
28°	4314.4	4346.2	4366.3	4407.7	4452.8	4469.5	4462.2	4454.5	4442.9	4421.5	4378.9
29°	4365.6	4403.1	4420.1	4462.7	4507.8	4523.8	4519.2	4515.1	4497.9	4476.1	4435.0
30°	4418.4	4463.2	4474.9	4517.0	4564.2	4578.9	4575.5	4575.7	4552.5	4529.5	4491.8
31°	4472.6	4523.6	4530.3	4571.6	4617.9	4634.2	4630.6	4637.9	4607.6	4583.3	4548.8
32°	4526.8	4584.8	4586.2	4626.7	4675.1	4691.6	4687.8	4699.5	4661.1	4637.0	4606.0
33°	4582.6	4646.9	4642.0	4684.3	4732.1	4749.6	4744.5	4761.5	4716.6	4694.1	4665.7
34°	4638.3	4708.8	4697.1	4743.0	4791.0	4807.1	4801.9	4824.6	4771.7	4751.0	4725.4
35°	4692.8	4773.5	4754.8	4802.8	4850.0	4865.5	4858.3	4887.6	4828.5	4810.2	4788.1
36°	4749.1	4838.4	4813.0	4862.9	4908.3	4922.5	4915.5	4951.5	4885.2	4869.4	4849.6
37°	4804.4	4903.1	4871.9	4923.6	4967.5	4980.4	4974.9	5015.7	4943.6	4929.8	4911.3
38°	4862.6	4967.2	4932.5	4985.2	5028.4	5040.1	5033.9	5079.5	5002.3	4990.7	4974.4
39°	4922.0	5032.0	4993.4	5048.1	5090.8	5099.4	5095.2	5142.4	5061.6	5052.8	5036.4
40°	4984.1	5092.6	5057.3	5112.2	5152.9	5161.0	5156.4	5202.9	5122.5	5116.2	5099.9
41°	5048.8	5153.6	5121.8	5176.7	5217.5	5221.9	5217.9	5261.2	5185.1	5180.1	5163.4
42°	5112.5	5213.0	5189.3	5240.4	5281.2	5285.1	5281.0	5319.3	5250.6	5245.3	5229.6
43°	5178.7	5271.7	5257.1	5305.3	5347.8	5351.8	5347.6	5378.0	5318.2	5310.0	5293.8
44°	5247.1	5330.4	5326.7	5372.4	5415.2	5418.1	5414.8	5439.0	5387.6	5375.3	5361.0

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	5316.7	5390.3	5397.3	5442.3	5484.8	5485.7	5486.1	5497.8	5458.4	5442.9	5428.6
46°	5389.1	5448.7	5471.1	5510.9	5555.0	5553.1	5556.9	5551.2	5532.6	5511.7	5498.0
47°	5465.0	5505.8	5545.8	5580.2	5626.0	5620.7	5627.7	5604.5	5603.5	5581.1	5570.4
48°	5541.9	5565.7	5623.1	5652.0	5697.9	5690.2	5697.2	5658.9	5675.3	5650.9	5644.0
49°	5619.3	5630.2	5702.6	5724.1	5772.4	5760.2	5766.2	5714.6	5745.8	5721.8	5718.3
50°	5700.5	5693.4	5783.3	5800.0	5846.6	5831.3	5833.7	5771.0	5815.5	5795.2	5794.1
51°	5785.9	5758.7	5863.9	5876.2	5923.2	5901.3	5900.8	5821.9	5883.0	5868.5	5871.7
52°	5867.3	5820.4	5942.5	5952.6	6001.3	5971.6	5964.9	5873.7	5948.6	5941.6	5951.2
53°	5940.5	5871.7	6015.3	6032.0	6081.4	6041.9	6024.4	5922.0	6007.5	6012.7	6031.3
54°	6003.9	5909.7	6081.5	6112.5	6162.6	6114.4	6079.6	5965.0	6063.5	6088.3	6115.4
55°	6061.6	5948.8	6138.6	6193.7	6245.7	6184.2	6131.2	6006.0	6114.5	6160.5	6202.8
56°	6120.4	5993.0	6194.5	6278.6	6330.1	6252.3	6177.3	6043.1	6160.7	6231.7	6292.8
57°	6176.1	6039.3	6249.4	6361.4	6414.7	6321.0	6218.0	6074.0	6199.7	6300.5	6379.6
58°	6228.5	6071.7	6302.5	6446.4	6500.6	6388.7	6252.5	6104.0	6232.3	6369.2	6470.8
59°	6268.7	6094.4	6341.7	6526.5	6590.5	6452.9	6281.6	6129.1	6259.2	6435.1	6561.3
60°	6301.8	6122.4	6374.6	6601.8	6678.8	6515.3	6308.0	6148.1	6282.1	6500.9	6653.7
61°	6333.8	6150.2	6406.4	6678.6	6768.0	6577.9	6329.1	6155.8	6303.9	6564.4	6746.8
62°	6364.2	6172.8	6435.8	6751.4	6849.5	6642.1	6343.1	6157.9	6316.6	6625.2	6841.3
63°	6391.7	6191.3	6463.4	6818.3	6923.5	6700.0	6349.0	6156.0	6319.7	6681.6	6934.6
64°	6416.3	6195.0	6486.7	6879.6	6993.3	6755.7	6352.1	6140.6	6315.9	6733.2	7028.3
65°	6412.7	6136.7	6477.9	6933.8	7061.3	6804.3	6342.7	6113.6	6301.8	6776.8	7116.6
66°	6333.6	6085.4	6390.9	6976.0	7126.1	6842.9	6326.2	6074.8	6279.9	6813.8	7200.4
67°	6283.1	6053.7	6336.7	6999.9	7176.7	6875.3	6293.6	5980.9	6241.3	6840.7	7272.0
68°	6252.6	5950.7	6290.2	6952.1	7216.3	6896.3	6213.7	5757.8	6150.3	6856.1	7331.7
69°	6129.6	5681.0	6154.5	6871.7	7242.4	6889.8	6039.9	5380.0	5954.8	6846.2	7373.2
70°	5898.9	5209.6	5930.4	6818.6	7246.1	6844.3	5724.2	4881.3	5625.1	6802.9	7386.4
71°	5546.7	4531.9	5576.3	6702.7	7211.2	6730.1	5292.2	4383.0	5174.3	6684.7	7361.3
72°	5008.2	3917.8	5028.9	6535.3	7100.8	6517.7	4802.2	3966.6	4682.6	6488.2	7292.2
73°	4349.9	3290.1	4361.8	6306.4	6900.1	6197.4	4328.1	3562.1	4214.9	6188.4	7150.5
74°	3668.0	2466.0	3681.9	5954.3	6612.4	5806.5	3878.2	3010.2	3759.6	5801.9	6917.4
75°	2791.8	1641.9	2809.2	5421.9	6228.5	5332.1	3315.2	2146.8	3170.5	5325.8	6540.3
76°	1915.6	830.6	1936.4	4712.8	5662.7	4814.8	2435.8	1217.0	2295.4	4778.5	5998.3
77°	1047.1	609.1	1071.3	3890.3	4892.3	4190.5	1556.4	873.6	1283.3	4119.0	5219.3
78°	441.9	387.7	463.2	2912.7	3889.0	3319.5	689.4	542.2	930.0	3234.1	4176.9
79°	344.4	171.5	359.3	1935.1	2839.1	2410.9	319.8	210.8	576.9	2144.1	2999.3
80°	247.0	141.4	255.4	964.9	1789.1	1502.3	267.1	176.3	223.8	1176.9	1815.9
81°	149.8	117.7	153.0	433.7	756.5	595.8	214.4	150.7	184.1	850.6	855.4
82°	122.3	96.6	124.9	336.0	325.9	315.0	162.1	128.0	156.2	543.9	552.6
83°	97.5	76.7	99.9	238.4	269.2	255.7	136.6	107.3	131.4	237.2	267.9
84°	75.3	59.3	76.8	141.5	212.5	196.5	113.6	89.1	108.5	183.4	216.2
85°	54.8	42.3	55.9	100.8	155.8	137.3	91.9	70.9	89.2	137.4	179.3
86°	38.8	29.2	39.3	66.6	121.4	98.7	72.0	52.7	69.8	100.3	143.7
87°	22.9	16.1	22.8	48.0	85.2	71.3	53.8	35.9	50.4	72.6	101.3
88°	6.9	3.2	6.2	29.4	58.1	49.1	37.1	21.0	33.7	45.0	81.3
89°	5.0	2.9	4.6	10.9	31.1	26.8	20.4	8.4	15.3	17.4	61.8

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3429.0	3429.0	3429.0
1°	3431.6	3430.6	3430.6
2°	3437.8	3437.2	3436.0
3°	3447.9	3447.0	3445.1
4°	3461.4	3459.8	3457.8
5°	3476.8	3474.8	3472.5
6°	3494.8	3492.7	3489.0
7°	3514.8	3512.0	3507.2
8°	3537.8	3532.9	3528.3
9°	3564.1	3557.4	3551.4
10°	3592.6	3584.3	3576.6
11°	3623.3	3613.4	3604.2
12°	3656.2	3643.3	3632.5
13°	3691.1	3673.6	3659.8
14°	3725.6	3704.9	3690.1
15°	3760.4	3736.9	3719.8
16°	3797.5	3770.8	3752.2
17°	3834.5	3807.1	3787.0
18°	3873.4	3844.0	3823.1
19°	3913.4	3881.8	3860.3
20°	3952.3	3919.8	3900.7
21°	3993.9	3961.4	3941.8
22°	4037.5	4004.4	3985.4
23°	4083.0	4049.2	4031.4
24°	4129.6	4095.5	4079.9
25°	4176.3	4144.4	4130.5
26°	4226.9	4194.4	4183.1
27°	4279.0	4245.8	4237.3
28°	4331.2	4297.6	4294.1
29°	4386.6	4350.9	4351.9
30°	4443.3	4404.6	4410.9
31°	4500.1	4461.2	4470.9
32°	4557.1	4517.6	4530.5
33°	4614.8	4574.9	4590.0
34°	4672.8	4630.2	4649.9
35°	4733.0	4687.0	4713.3
36°	4795.7	4743.6	4775.8
37°	4856.2	4803.0	4838.4
38°	4919.4	4863.5	4902.0
39°	4981.0	4924.0	4964.3
40°	5046.0	4987.6	5026.0
41°	5110.2	5052.2	5086.6
42°	5176.4	5120.0	5150.1
43°	5243.2	5188.9	5211.6
44°	5310.4	5257.4	5271.8

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5379.3	5331.4	5332.2
46°	5449.7	5404.6	5392.7
47°	5521.5	5482.2	5455.3
48°	5596.0	5561.2	5518.9
49°	5672.4	5643.6	5584.8
50°	5750.9	5725.9	5652.0
51°	5831.2	5810.8	5720.8
52°	5913.8	5894.0	5791.6
53°	5999.8	5977.7	5862.4
54°	6083.6	6059.7	5933.3
55°	6171.5	6141.1	6001.3
56°	6261.8	6216.7	6065.2
57°	6350.4	6286.4	6125.8
58°	6442.3	6350.4	6182.5
59°	6531.4	6409.8	6233.6
60°	6620.5	6463.7	6279.6
61°	6709.5	6509.5	6317.2
62°	6796.3	6550.8	6346.5
63°	6879.8	6585.5	6372.4
64°	6963.2	6618.6	6395.3
65°	7039.9	6648.4	6417.8
66°	7111.4	6676.7	6430.8
67°	7169.4	6695.0	6430.8
68°	7213.7	6692.8	6371.6
69°	7235.2	6646.4	6181.6
70°	7234.6	6511.1	5781.4
71°	7201.1	6214.2	5148.4
72°	7117.2	5683.6	4488.6
73°	6940.9	4981.0	3789.6
74°	6592.1	4190.2	2981.3
75°	6016.1	3362.1	1974.0
76°	5275.8	2409.0	1020.7
77°	4422.6	1335.4	738.6
78°	3365.7	963.0	472.1
79°	2127.1	592.9	205.6
80°	1093.8	222.8	170.8
81°	784.8	187.4	146.0
82°	502.2	158.4	124.4
83°	219.5	131.7	104.4
84°	173.5	108.1	86.2
85°	131.4	88.2	68.1
86°	98.6	68.4	50.0
87°	71.0	48.6	33.8
88°	43.6	30.9	19.4
89°	16.1	12.6	7.8

REPORT NUMBER: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445030

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)