

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: P1444982

Luminaire Tested: XAS180-SFPM (3000K-180W-T5)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444982
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 (3000K-180W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 5
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 25508.8 lumens
Efficiency: 90.9%
Efficacy: 141.2 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

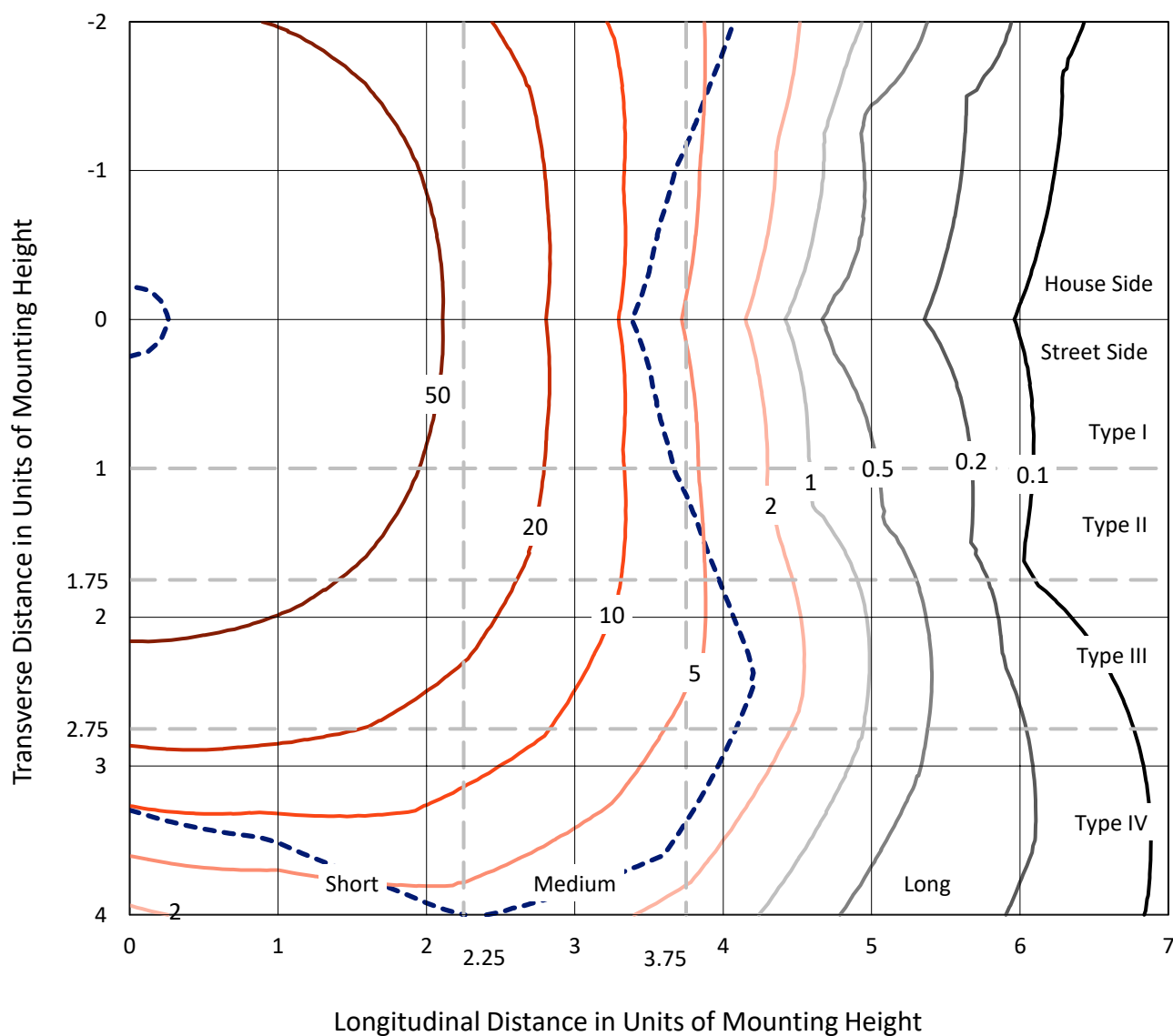
Input Watts (W): 180.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

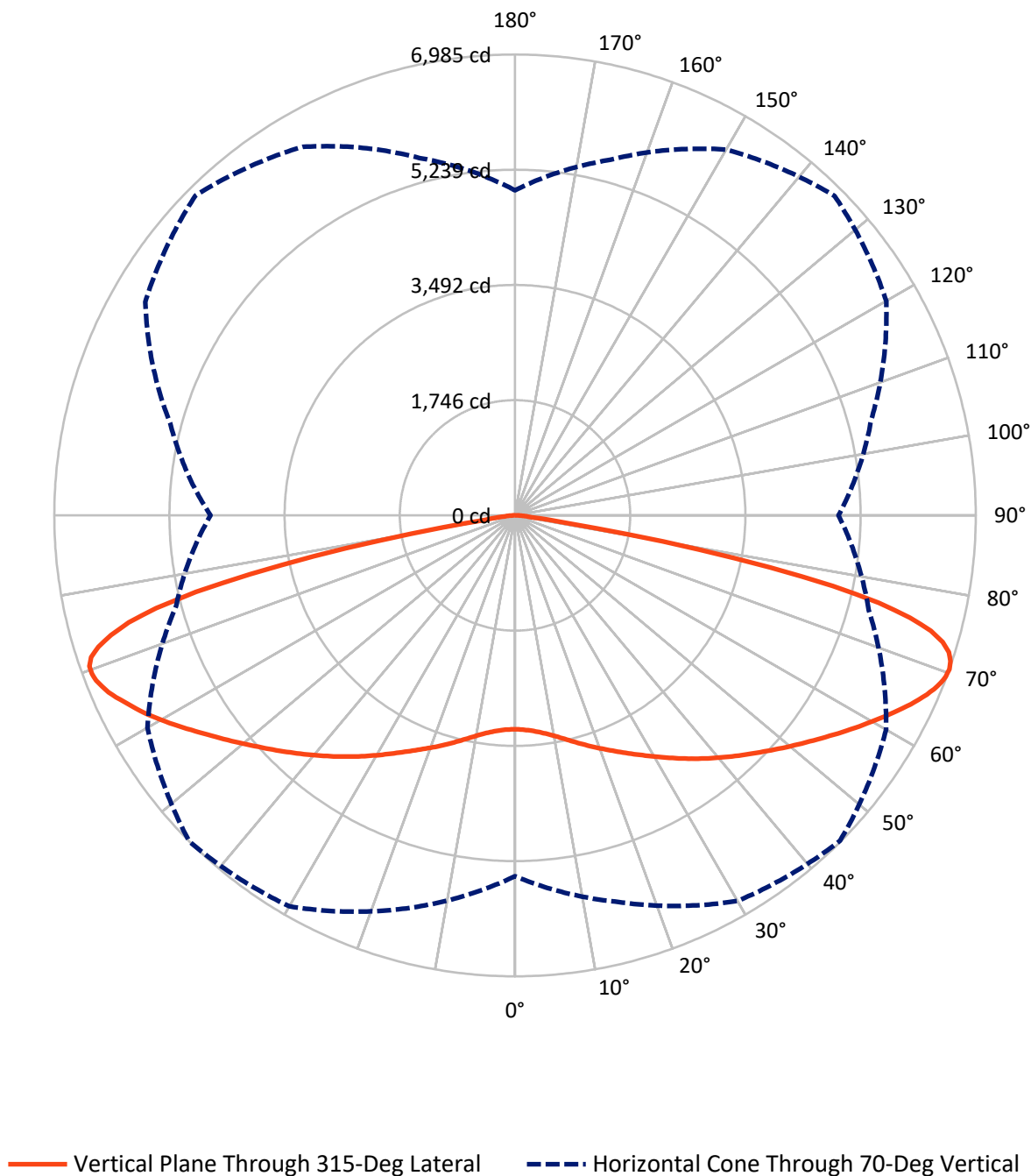


Based on 3 foot mounting height. Maximum calculated value = 360.9 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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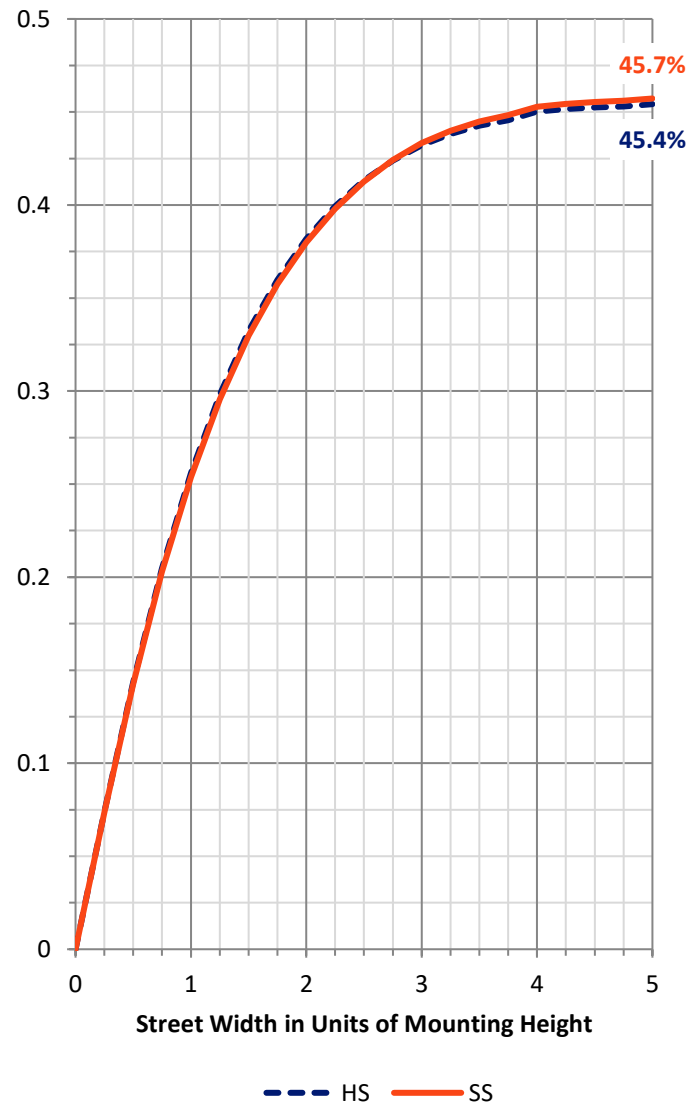
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12693.6	0.0	12693.6
	% Lamp	45.2	0.0	45.2
Street Side	Lumens	12815.2	0.0	12815.2
	% Lamp	45.7	0.0	45.7
Total	Lumens	25508.8	0.0	25508.8
	% Lamp	90.9	0.0	90.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	316.7	1.2	1.1
10°-20°	1013.5	4.0	3.6
20°-30°	1842.7	7.2	6.6
30°-40°	2822.5	11.1	10.1
40°-50°	3933.9	15.4	14.0
50°-60°	5148.9	20.2	18.3
60°-70°	6153.4	24.1	21.9
70°-80°	4076.9	16.0	14.5
80°-90°	200.4	0.8	0.7
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°	25508.8	100.0	90.9
0°-180°	25508.8	100.0	90.9

Coefficient of Utilization



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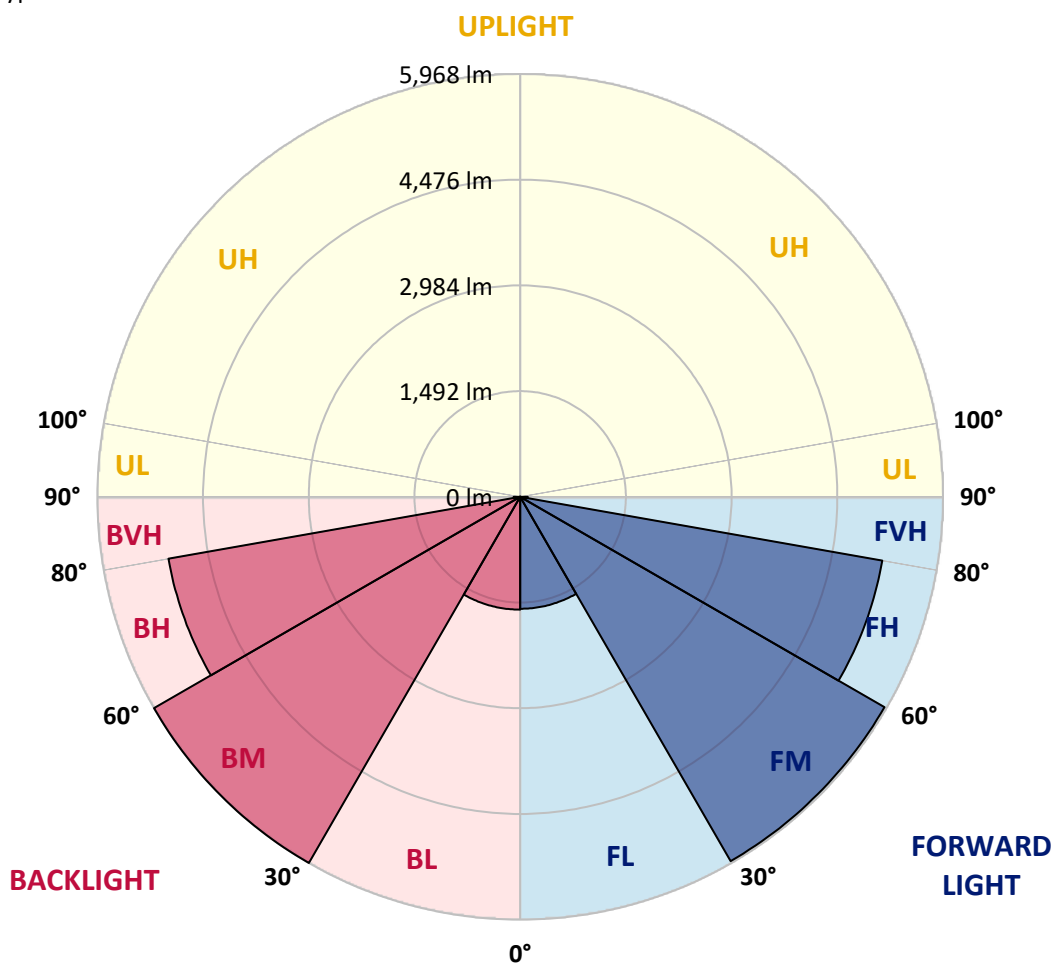
CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1580.3	5.6			
FM	(30°-60°)	5937.5	21.2			
FH	(60°-80°)	5190.0	18.5			G3/7500
FVH	(80°-90°)	107.5	0.4			G2/225
BL	(0°-30°)	1592.6	5.7	B3/2500		
BM	(30°-60°)	5967.8	21.3	B4/8500		
BH	(60°-80°)	5040.3	18.0	B5		G3/7500
BVH	(80°-90°)	92.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		2553.2	9.1			

BUG Rating: B5-U0-G3

Type V Short



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CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5
1°	3244.1	3243.4	3244.1	3243.4	3243.5	3243.1	3240.8	3241.1	3241.1	3242.2	3242.9
2°	3249.1	3247.9	3247.6	3246.8	3245.5	3244.3	3242.3	3242.3	3242.9	3244.5	3246.2
3°	3257.7	3255.6	3254.3	3252.2	3251.5	3249.8	3247.7	3247.4	3248.0	3250.0	3252.6
4°	3269.8	3267.1	3264.7	3262.6	3260.5	3258.3	3256.0	3255.8	3256.6	3259.3	3262.6
5°	3283.6	3280.3	3277.6	3274.0	3271.0	3269.1	3266.1	3267.2	3269.3	3272.4	3275.9
6°	3299.2	3295.2	3293.4	3289.3	3284.4	3281.4	3278.4	3279.4	3282.7	3288.1	3292.6
7°	3316.4	3312.4	3311.2	3306.8	3301.9	3297.3	3293.7	3295.2	3298.2	3306.4	3312.5
8°	3336.4	3332.0	3330.0	3326.3	3321.0	3316.0	3313.4	3315.2	3318.8	3326.2	3335.0
9°	3358.2	3354.2	3351.3	3347.7	3343.0	3336.9	3333.2	3336.0	3342.4	3350.1	3359.0
10°	3382.0	3378.1	3375.6	3371.7	3367.6	3360.5	3357.2	3360.0	3367.9	3377.3	3384.9
11°	3408.2	3403.7	3402.6	3398.9	3393.6	3386.7	3382.4	3386.9	3395.6	3407.4	3414.1
12°	3434.9	3428.9	3429.8	3427.7	3421.8	3414.5	3409.3	3415.2	3425.3	3438.5	3446.2
13°	3460.8	3455.1	3458.7	3458.9	3451.4	3444.5	3437.1	3444.4	3457.7	3471.2	3480.6
14°	3489.4	3482.9	3487.6	3490.4	3483.1	3474.8	3466.3	3475.5	3489.5	3506.4	3515.2
15°	3517.5	3511.5	3517.4	3523.6	3515.8	3505.8	3497.6	3506.3	3523.8	3542.3	3549.8
16°	3548.1	3543.5	3548.4	3556.4	3550.2	3539.2	3531.1	3539.6	3559.1	3579.3	3586.7
17°	3581.0	3576.7	3582.4	3590.7	3586.3	3573.3	3564.7	3573.7	3596.8	3615.1	3623.5
18°	3615.2	3609.3	3616.6	3625.0	3621.9	3608.7	3600.1	3609.9	3634.0	3652.3	3658.9
19°	3650.4	3643.9	3652.4	3660.7	3659.2	3645.7	3636.9	3648.2	3672.6	3690.3	3694.6
20°	3688.6	3680.9	3688.6	3697.0	3697.2	3684.7	3676.1	3688.4	3712.2	3728.1	3730.2
21°	3727.5	3719.7	3725.2	3734.5	3736.5	3724.3	3715.5	3729.8	3752.4	3764.7	3767.5
22°	3768.6	3760.3	3764.1	3772.4	3778.5	3765.7	3758.0	3772.9	3795.2	3805.0	3806.7
23°	3812.2	3803.4	3804.1	3812.9	3820.9	3809.3	3801.4	3818.4	3838.3	3845.4	3848.3
24°	3858.0	3848.0	3845.6	3854.4	3864.1	3853.4	3847.2	3864.6	3883.4	3887.6	3891.0
25°	3905.8	3894.2	3889.1	3898.4	3909.8	3899.6	3895.4	3912.9	3928.0	3931.4	3933.3
26°	3955.6	3941.7	3934.4	3943.1	3955.4	3945.1	3944.3	3961.6	3973.9	3975.9	3976.6
27°	4006.9	3990.3	3979.8	3989.6	4000.8	3991.6	3993.9	4011.1	4020.4	4022.4	4021.5
28°	4060.5	4039.5	4026.6	4036.9	4047.2	4039.3	4045.5	4059.9	4068.9	4070.5	4066.8
29°	4115.2	4089.2	4075.3	4086.5	4093.8	4087.5	4099.6	4109.6	4117.2	4120.4	4114.2
30°	4171.0	4139.0	4125.2	4136.7	4141.4	4137.2	4155.1	4160.5	4166.5	4170.8	4162.0
31°	4227.8	4190.1	4176.9	4188.5	4189.3	4185.6	4211.1	4210.9	4216.3	4222.7	4212.1
32°	4284.1	4241.2	4228.3	4241.0	4237.7	4237.6	4266.0	4263.0	4267.3	4275.3	4262.4
33°	4340.4	4293.8	4282.5	4292.6	4289.0	4287.9	4322.7	4313.5	4319.4	4327.9	4314.3
34°	4397.0	4346.0	4335.6	4345.5	4339.8	4337.0	4377.9	4363.9	4371.7	4379.8	4366.4
35°	4456.9	4397.9	4390.2	4399.1	4391.7	4386.5	4435.0	4413.8	4424.6	4433.8	4421.2
36°	4516.0	4451.5	4446.1	4453.8	4445.6	4437.9	4491.6	4465.1	4480.1	4488.7	4477.4
37°	4575.3	4505.7	4503.0	4509.8	4499.8	4487.5	4547.7	4517.1	4535.1	4544.4	4534.7
38°	4635.4	4561.8	4560.1	4565.6	4553.7	4539.5	4605.9	4568.2	4588.8	4600.1	4591.6
39°	4694.3	4618.1	4616.7	4622.1	4607.8	4593.3	4664.8	4621.0	4644.6	4655.4	4647.3
40°	4752.6	4676.8	4673.3	4679.6	4662.9	4647.6	4723.4	4675.3	4700.7	4713.1	4705.5
41°	4810.0	4736.5	4731.7	4736.8	4719.8	4703.9	4781.8	4732.2	4756.1	4770.8	4761.1
42°	4870.0	4797.7	4791.6	4796.7	4777.1	4761.2	4838.0	4789.5	4813.4	4830.8	4822.0
43°	4928.2	4861.4	4852.4	4857.4	4836.5	4820.8	4892.5	4849.4	4871.4	4891.6	4882.4
44°	4985.1	4926.9	4913.7	4918.9	4895.9	4882.2	4945.1	4910.7	4929.2	4951.5	4944.0

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CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5042.2	4992.2	4976.7	4979.7	4956.3	4946.2	4996.2	4972.9	4988.2	5013.3	5007.6
46°	5099.4	5061.2	5042.0	5043.2	5019.6	5012.2	5048.2	5037.9	5048.2	5076.3	5072.1
47°	5158.6	5134.2	5109.7	5109.5	5085.1	5080.4	5102.0	5103.1	5111.8	5142.1	5140.2
48°	5218.8	5206.2	5178.1	5177.1	5150.1	5149.8	5152.4	5170.9	5177.6	5206.7	5209.3
49°	5281.0	5282.0	5250.3	5247.0	5217.5	5219.7	5202.5	5237.7	5244.0	5273.8	5277.3
50°	5344.6	5355.9	5322.6	5317.1	5284.4	5290.4	5252.9	5304.4	5309.9	5344.6	5348.4
51°	5409.7	5432.3	5396.9	5388.9	5355.5	5359.8	5305.5	5369.8	5378.5	5416.1	5423.4
52°	5476.6	5510.4	5475.3	5465.7	5427.8	5428.5	5359.5	5437.4	5448.9	5491.6	5497.7
53°	5543.6	5587.0	5555.1	5541.6	5499.7	5494.7	5410.9	5503.7	5519.3	5565.4	5573.6
54°	5610.6	5663.4	5636.1	5622.7	5572.7	5559.3	5462.0	5567.0	5592.2	5641.0	5649.6
55°	5674.9	5733.3	5718.9	5702.6	5645.2	5619.9	5512.2	5624.5	5665.7	5722.5	5729.5
56°	5735.4	5802.7	5803.6	5786.9	5719.8	5677.1	5560.3	5682.2	5739.1	5804.5	5811.5
57°	5792.6	5867.8	5888.3	5875.3	5793.4	5730.0	5603.4	5734.1	5811.8	5888.3	5891.3
58°	5846.3	5929.3	5974.8	5964.9	5866.3	5777.1	5640.1	5780.4	5884.6	5975.1	5967.6
59°	5894.6	5986.5	6063.3	6055.6	5939.5	5816.2	5674.4	5823.2	5955.8	6063.4	6041.2
60°	5938.1	6038.2	6150.1	6150.1	6009.8	5849.3	5701.3	5859.5	6023.7	6152.8	6112.2
61°	5973.6	6085.1	6234.2	6244.0	6079.4	5879.0	5722.3	5891.1	6094.1	6240.8	6183.6
62°	6001.3	6124.1	6316.7	6340.8	6146.6	5900.3	5734.1	5914.2	6159.2	6327.7	6252.0
63°	6025.8	6159.5	6397.1	6438.2	6215.6	5911.3	5734.7	5932.1	6224.8	6407.8	6316.0
64°	6047.5	6188.1	6470.6	6534.6	6280.1	5913.7	5725.5	5942.9	6290.0	6485.5	6376.3
65°	6068.8	6212.5	6541.6	6629.5	6341.9	5912.6	5709.5	5944.9	6350.4	6564.8	6429.0
66°	6081.1	6235.7	6604.9	6720.4	6395.5	5900.8	5685.6	5936.2	6404.6	6644.4	6478.2
67°	6081.1	6251.9	6658.9	6804.7	6439.7	5879.5	5646.5	5917.6	6449.1	6717.8	6517.8
68°	6025.1	6248.6	6705.0	6879.0	6470.4	5844.6	5526.0	5879.3	6484.4	6776.1	6492.5
69°	5845.4	6201.3	6734.9	6934.6	6488.3	5748.9	5273.3	5783.5	6501.7	6822.3	6433.0
70°	5466.9	6064.9	6746.2	6970.0	6495.2	5550.7	4904.3	5589.4	6498.9	6848.7	6401.1
71°	4868.4	5757.1	6730.4	6984.6	6451.3	5243.0	4447.4	5284.4	6446.8	6844.4	6312.6
72°	4244.5	5253.9	6676.9	6963.9	6338.7	4850.1	4030.6	4884.4	6310.5	6773.8	6164.2
73°	3583.5	4598.0	6546.4	6891.2	6146.0	4428.0	3709.2	4452.8	6082.4	6620.9	5977.6
74°	2819.2	3882.5	6259.8	6736.1	5876.4	4044.2	3305.5	4055.9	5784.8	6388.2	5669.5
75°	1866.6	3103.1	5735.1	6460.4	5522.5	3617.3	2525.8	3636.6	5406.3	6078.0	5210.5
76°	965.2	2177.7	5027.1	6017.3	5103.7	2976.0	1745.9	3024.6	4989.0	5619.9	4584.0
77°	698.4	1171.5	4260.1	5369.2	4589.3	2002.8	967.3	2190.3	4491.9	4973.3	3807.5
78°	446.4	842.1	3329.7	4418.1	3874.1	1038.1	416.5	1356.1	3803.2	4112.7	2876.9
79°	194.4	524.4	2160.0	3366.8	2874.5	750.5	328.1	527.8	2837.1	3112.2	1946.2
80°	161.5	206.6	1102.1	2192.3	1740.5	470.6	239.6	407.6	1870.9	2105.4	1018.8
81°	138.1	170.2	797.0	1109.5	855.0	190.7	153.0	287.5	913.9	1109.0	468.1
82°	117.6	143.8	504.4	797.8	630.3	162.3	130.7	167.4	406.9	448.5	357.1
83°	98.7	120.0	211.7	507.3	412.5	137.4	110.6	141.2	319.8	350.1	246.1
84°	81.5	98.4	165.9	216.8	194.8	114.4	91.7	117.1	232.6	251.6	136.0
85°	64.4	80.5	126.6	178.8	148.0	93.6	73.8	95.3	146.2	153.6	98.4
86°	47.3	62.7	95.0	143.8	108.7	75.1	57.2	75.6	104.9	120.4	65.9
87°	31.9	44.9	69.1	105.7	79.8	56.7	40.7	57.3	75.7	85.5	41.0
88°	18.3	29.1	43.3	84.7	51.4	38.4	28.4	40.7	52.4	53.2	29.1
89°	7.4	12.5	17.5	64.2	22.9	20.6	16.1	28.1	36.1	36.8	17.2

REPORT NUMBER: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5
1°	3243.5	3244.1	3244.8	3245.8	3246.3	3246.9	3247.2	3245.1	3244.7	3244.3	3244.9
2°	3247.5	3249.2	3249.8	3251.7	3252.7	3253.1	3253.5	3251.6	3251.8	3251.0	3251.1
3°	3254.3	3257.1	3259.1	3260.8	3262.5	3263.1	3264.2	3261.6	3261.8	3261.0	3261.5
4°	3265.6	3268.9	3271.1	3273.2	3275.2	3276.1	3277.2	3275.2	3274.6	3274.0	3273.5
5°	3279.4	3283.8	3286.3	3289.5	3291.0	3292.0	3292.4	3290.1	3289.9	3289.0	3288.5
6°	3297.1	3301.5	3305.4	3308.8	3310.3	3310.3	3310.5	3307.8	3307.9	3307.3	3306.8
7°	3318.0	3322.0	3326.9	3330.7	3332.1	3333.1	3334.1	3330.5	3330.0	3328.7	3328.1
8°	3340.5	3345.3	3350.7	3355.5	3357.8	3359.7	3358.8	3354.5	3353.6	3352.3	3350.6
9°	3365.0	3370.5	3376.9	3383.3	3386.9	3387.6	3385.5	3379.3	3379.5	3379.0	3377.2
10°	3392.2	3398.8	3406.1	3413.9	3418.1	3418.1	3414.5	3408.4	3407.9	3408.7	3405.0
11°	3422.2	3429.4	3437.9	3447.4	3452.2	3451.5	3446.9	3440.4	3440.3	3441.0	3436.3
12°	3453.4	3460.8	3471.4	3482.7	3488.5	3486.9	3481.6	3473.7	3474.7	3474.6	3469.1
13°	3485.4	3492.7	3504.6	3520.7	3527.6	3525.5	3517.3	3509.5	3510.8	3510.8	3504.1
14°	3519.1	3525.8	3539.8	3558.2	3567.8	3564.9	3555.9	3546.5	3548.4	3549.5	3540.7
15°	3553.0	3559.1	3575.4	3597.2	3609.7	3606.4	3595.2	3584.9	3587.7	3589.8	3578.0
16°	3587.8	3593.9	3611.2	3636.0	3652.4	3650.8	3636.3	3624.6	3627.8	3630.2	3616.0
17°	3622.8	3628.8	3647.9	3675.2	3695.4	3693.8	3679.6	3666.6	3669.1	3671.6	3655.6
18°	3658.9	3664.8	3685.6	3713.7	3737.8	3738.8	3723.3	3708.5	3712.7	3714.3	3695.6
19°	3695.4	3703.3	3722.8	3753.1	3781.5	3783.4	3767.3	3752.0	3756.6	3757.2	3734.6
20°	3732.6	3741.8	3762.3	3795.3	3824.1	3829.5	3813.2	3797.5	3802.5	3801.6	3775.5
21°	3772.0	3781.5	3803.0	3836.7	3867.8	3877.0	3861.8	3844.5	3848.4	3847.0	3816.0
22°	3813.0	3823.1	3845.4	3880.5	3914.2	3925.1	3911.3	3892.3	3897.1	3892.9	3859.8
23°	3853.6	3865.8	3890.4	3926.4	3960.4	3975.3	3959.6	3942.3	3947.4	3939.3	3904.7
24°	3897.7	3911.3	3936.2	3972.9	4008.8	4024.6	4010.0	3993.3	3997.6	3986.1	3948.6
25°	3941.1	3957.0	3982.8	4019.6	4057.8	4074.4	4062.5	4045.6	4048.1	4034.6	3994.1
26°	3987.1	4006.5	4031.1	4068.8	4107.8	4124.5	4114.5	4100.3	4098.3	4082.6	4042.3
27°	4033.1	4055.7	4079.3	4117.6	4157.2	4174.1	4166.2	4154.7	4149.2	4131.0	4090.1
28°	4079.8	4109.8	4128.8	4168.0	4210.6	4226.4	4219.5	4212.2	4201.2	4181.1	4140.8
29°	4128.1	4163.6	4179.7	4220.0	4262.6	4277.8	4273.4	4269.5	4253.3	4232.7	4193.8
30°	4178.1	4220.4	4231.5	4271.3	4315.9	4329.9	4326.7	4326.9	4304.9	4283.1	4247.5
31°	4229.3	4277.6	4284.0	4322.9	4366.8	4382.1	4378.8	4385.7	4357.0	4334.0	4301.4
32°	4280.6	4335.4	4336.8	4375.0	4420.8	4436.5	4432.8	4443.9	4407.6	4384.8	4355.5
33°	4333.4	4394.1	4389.6	4429.6	4474.8	4491.3	4486.5	4502.6	4460.1	4438.8	4411.9
34°	4386.0	4452.7	4441.7	4485.0	4530.5	4545.7	4540.7	4562.2	4512.2	4492.6	4468.4
35°	4437.6	4513.9	4496.2	4541.6	4586.2	4600.9	4594.1	4621.7	4565.9	4548.6	4527.7
36°	4490.8	4575.3	4551.2	4598.5	4641.4	4654.8	4648.2	4682.2	4619.5	4604.6	4585.8
37°	4543.1	4636.5	4606.9	4655.8	4697.4	4709.5	4704.4	4742.9	4674.7	4661.6	4644.2
38°	4598.1	4697.1	4664.2	4714.1	4754.9	4766.0	4760.1	4803.3	4730.3	4719.3	4703.8
39°	4654.3	4758.4	4721.8	4773.5	4813.9	4822.1	4818.1	4862.7	4786.4	4778.0	4762.5
40°	4713.0	4815.6	4782.3	4834.2	4872.6	4880.4	4876.0	4919.9	4843.9	4837.9	4822.5
41°	4774.2	4873.4	4843.3	4895.2	4933.7	4937.9	4934.1	4975.1	4903.1	4898.3	4882.5
42°	4834.4	4929.5	4907.1	4955.4	4994.0	4997.7	4993.8	5030.0	4965.1	4960.1	4945.2
43°	4897.1	4985.0	4971.2	5016.8	5057.0	5060.7	5056.8	5085.5	5029.0	5021.2	5005.9
44°	4961.7	5040.5	5037.0	5080.2	5120.7	5123.4	5120.3	5143.1	5094.6	5083.0	5069.4

REPORT NUMBER: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	5027.5	5097.1	5103.8	5146.3	5186.5	5187.3	5187.7	5198.8	5161.5	5146.9	5133.3
46°	5096.0	5152.3	5173.5	5211.1	5252.9	5251.0	5254.7	5249.3	5231.7	5212.0	5199.0
47°	5167.8	5206.3	5244.2	5276.7	5320.0	5315.0	5321.6	5299.7	5298.8	5277.6	5267.4
48°	5240.5	5263.0	5317.3	5344.6	5388.0	5380.8	5387.3	5351.1	5366.7	5343.6	5337.0
49°	5313.7	5323.9	5392.5	5412.8	5458.5	5446.9	5452.6	5403.8	5433.3	5410.6	5407.3
50°	5390.5	5383.8	5468.7	5484.6	5528.7	5514.2	5516.4	5457.1	5499.2	5480.0	5478.9
51°	5471.2	5445.5	5545.0	5556.6	5601.1	5580.4	5579.9	5505.3	5563.0	5549.4	5552.4
52°	5548.2	5503.8	5619.3	5628.8	5674.9	5646.8	5640.5	5554.3	5625.1	5618.5	5627.6
53°	5617.4	5552.4	5688.2	5703.9	5750.6	5713.3	5696.7	5599.9	5680.7	5685.7	5703.3
54°	5677.4	5588.3	5750.7	5780.1	5827.4	5781.8	5748.9	5640.6	5733.7	5757.2	5782.8
55°	5731.9	5625.3	5804.7	5856.8	5906.0	5847.9	5797.7	5679.4	5782.0	5825.4	5865.4
56°	5787.5	5667.1	5857.6	5937.2	5985.8	5912.3	5841.3	5714.5	5825.6	5892.8	5950.5
57°	5840.2	5710.8	5909.5	6015.4	6065.8	5977.2	5879.8	5743.6	5862.5	5957.8	6032.6
58°	5889.7	5741.4	5959.7	6095.8	6147.0	6041.2	5912.4	5772.0	5893.3	6022.8	6118.9
59°	5927.8	5762.9	5996.8	6171.6	6232.0	6102.0	5940.0	5795.7	5918.8	6085.1	6204.5
60°	5959.1	5789.4	6027.9	6242.8	6315.6	6161.0	5965.0	5813.7	5940.4	6147.3	6291.9
61°	5989.3	5815.7	6058.0	6315.4	6399.9	6220.1	5984.9	5821.0	5961.1	6207.4	6379.8
62°	6018.1	5837.1	6085.8	6384.2	6477.0	6280.9	5998.2	5823.0	5973.1	6264.9	6469.2
63°	6044.1	5854.6	6111.9	6447.5	6546.9	6335.6	6003.7	5821.2	5976.0	6318.2	6557.5
64°	6067.3	5858.1	6133.9	6505.5	6612.9	6388.3	6006.6	5806.6	5972.4	6367.0	6646.1
65°	6064.0	5803.0	6125.6	6556.6	6677.3	6434.2	5997.7	5781.1	5959.1	6408.2	6729.5
66°	5989.2	5754.4	6043.3	6596.6	6738.5	6470.7	5982.2	5744.4	5938.3	6443.2	6808.8
67°	5941.3	5724.5	5992.1	6619.2	6786.3	6501.4	5951.3	5655.6	5901.9	6468.7	6876.5
68°	5912.5	5627.1	5948.1	6574.0	6823.8	6521.2	5875.8	5444.7	5815.8	6483.2	6933.0
69°	5796.3	5372.0	5819.8	6497.9	6848.5	6515.1	5711.5	5087.4	5630.9	6473.8	6972.1
70°	5578.1	4926.3	5607.8	6447.7	6852.0	6472.0	5412.8	4615.8	5319.1	6432.9	6984.7
71°	5245.0	4285.4	5273.0	6338.1	6819.0	6364.1	5004.3	4144.6	4892.9	6321.1	6961.0
72°	4735.8	3704.7	4755.4	6179.9	6714.6	6163.2	4541.0	3750.9	4427.9	6135.3	6895.6
73°	4113.3	3111.2	4124.6	5963.4	6524.8	5860.3	4092.7	3368.4	3985.7	5851.8	6761.6
74°	3468.5	2331.9	3481.7	5630.5	6252.8	5490.7	3667.3	2846.5	3555.1	5486.4	6541.2
75°	2639.9	1552.6	2656.4	5127.1	5889.7	5042.1	3134.9	2030.1	2998.1	5036.2	6184.6
76°	1811.5	785.4	1831.1	4456.5	5354.8	4552.9	2303.3	1150.8	2170.5	4518.6	5672.1
77°	990.2	576.0	1013.0	3678.7	4626.2	3962.6	1471.8	826.1	1213.5	3895.0	4935.4
78°	417.8	366.6	438.0	2754.3	3677.5	3139.0	651.9	512.8	879.4	3058.3	3949.7
79°	325.7	162.1	339.8	1829.8	2684.7	2279.8	302.4	199.4	545.5	2027.4	2836.2
80°	233.6	133.7	241.5	912.5	1691.8	1420.6	252.6	166.7	211.7	1112.9	1717.1
81°	141.6	111.3	144.7	410.1	715.3	563.4	202.7	142.5	174.1	804.3	808.9
82°	115.6	91.4	118.1	317.8	308.2	297.8	153.3	121.1	147.7	514.3	522.5
83°	92.2	72.5	94.5	225.5	254.6	241.8	129.2	101.5	124.3	224.3	253.4
84°	71.2	56.1	72.7	133.8	200.9	185.8	107.4	84.2	102.6	173.4	204.5
85°	51.8	40.0	52.9	95.3	147.3	129.9	86.9	67.0	84.3	129.9	169.6
86°	36.7	27.6	37.2	63.0	114.8	93.3	68.1	49.8	66.0	94.9	135.9
87°	21.6	15.2	21.5	45.4	80.5	67.4	50.8	34.0	47.7	68.6	95.7
88°	6.5	3.0	5.9	27.8	55.0	46.4	35.1	19.9	31.9	42.5	76.9
89°	4.7	2.8	4.4	10.3	29.4	25.4	19.3	8.0	14.4	16.5	58.4

REPORT NUMBER: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3242.5	3242.5	3242.5
1°	3245.0	3244.1	3244.1
2°	3250.9	3250.2	3249.1
3°	3260.4	3259.5	3257.7
4°	3273.1	3271.6	3269.8
5°	3287.7	3285.8	3283.6
6°	3304.8	3302.8	3299.2
7°	3323.7	3321.0	3316.4
8°	3345.4	3340.8	3336.4
9°	3370.2	3364.0	3358.2
10°	3397.2	3389.4	3382.0
11°	3426.2	3416.9	3408.2
12°	3457.3	3445.1	3434.9
13°	3490.4	3473.8	3460.8
14°	3522.9	3503.4	3489.4
15°	3555.8	3533.7	3517.5
16°	3590.9	3565.7	3548.1
17°	3625.9	3600.0	3581.0
18°	3662.7	3634.9	3615.2
19°	3700.6	3670.6	3650.4
20°	3737.4	3706.6	3688.6
21°	3776.7	3745.9	3727.5
22°	3817.9	3786.6	3768.6
23°	3860.9	3829.0	3812.2
24°	3905.0	3872.7	3858.0
25°	3949.2	3919.0	3905.8
26°	3997.0	3966.3	3955.6
27°	4046.2	4014.9	4006.9
28°	4095.6	4063.9	4060.5
29°	4148.1	4114.2	4115.2
30°	4201.7	4165.1	4171.0
31°	4255.3	4218.6	4227.8
32°	4309.2	4271.9	4284.1
33°	4363.9	4326.0	4340.4
34°	4418.7	4378.4	4397.0
35°	4475.6	4432.1	4456.9
36°	4534.8	4485.6	4516.0
37°	4592.1	4541.7	4575.3
38°	4651.8	4599.0	4635.4
39°	4710.1	4656.2	4694.3
40°	4771.5	4716.4	4752.6
41°	4832.3	4777.5	4810.0
42°	4894.9	4841.5	4870.0
43°	4958.1	4906.7	4928.2
44°	5021.6	4971.4	4985.1

REPORT NUMBER: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5086.7	5041.4	5042.2
46°	5153.3	5110.7	5099.4
47°	5221.2	5184.0	5158.6
48°	5291.7	5258.8	5218.8
49°	5363.8	5336.7	5281.0
50°	5438.1	5414.5	5344.6
51°	5514.0	5494.7	5409.7
52°	5592.2	5573.5	5476.6
53°	5673.5	5652.5	5543.6
54°	5752.7	5730.2	5610.6
55°	5835.9	5807.1	5674.9
56°	5921.3	5878.6	5735.4
57°	6005.1	5944.5	5792.6
58°	6092.0	6005.1	5846.3
59°	6176.1	6061.1	5894.6
60°	6260.4	6112.1	5938.1
61°	6344.6	6155.5	5973.6
62°	6426.7	6194.5	6001.3
63°	6505.6	6227.3	6025.8
64°	6584.5	6258.7	6047.5
65°	6657.0	6286.9	6068.8
66°	6724.6	6313.6	6081.1
67°	6779.4	6330.8	6081.1
68°	6821.3	6328.8	6025.1
69°	6841.7	6284.9	5845.4
70°	6841.2	6157.0	5466.9
71°	6809.4	5876.3	4868.4
72°	6730.1	5374.5	4244.5
73°	6563.4	4710.1	3583.5
74°	6233.6	3962.3	2819.2
75°	5688.9	3179.2	1866.6
76°	4988.9	2278.0	965.2
77°	4182.1	1262.8	698.4
78°	3182.7	910.6	446.4
79°	2011.4	560.7	194.4
80°	1034.4	210.7	161.5
81°	742.2	177.2	138.1
82°	474.9	149.8	117.6
83°	207.6	124.5	98.7
84°	164.1	102.2	81.5
85°	124.2	83.4	64.4
86°	93.2	64.7	47.3
87°	67.2	45.9	31.9
88°	41.2	29.2	18.3
89°	15.2	11.9	7.4

REPORT NUMBER: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444982

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)