

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: P1436780

Luminaire Tested: XAS300-SFPM (3000K-180W-T4-HSS)

Issue Date: 3/25/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1436780  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ( )  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 3/25/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: LUMARK  
Catalog Number: XAS300-SFPM (3000K-180W-T4-HSS)  
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.  
LUMEN OUTPUT - 60% (180W)  
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: 45535 (1 lamp)  
Luminaire Lumens: 23897.2 lumens  
Efficiency: 52.5%  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

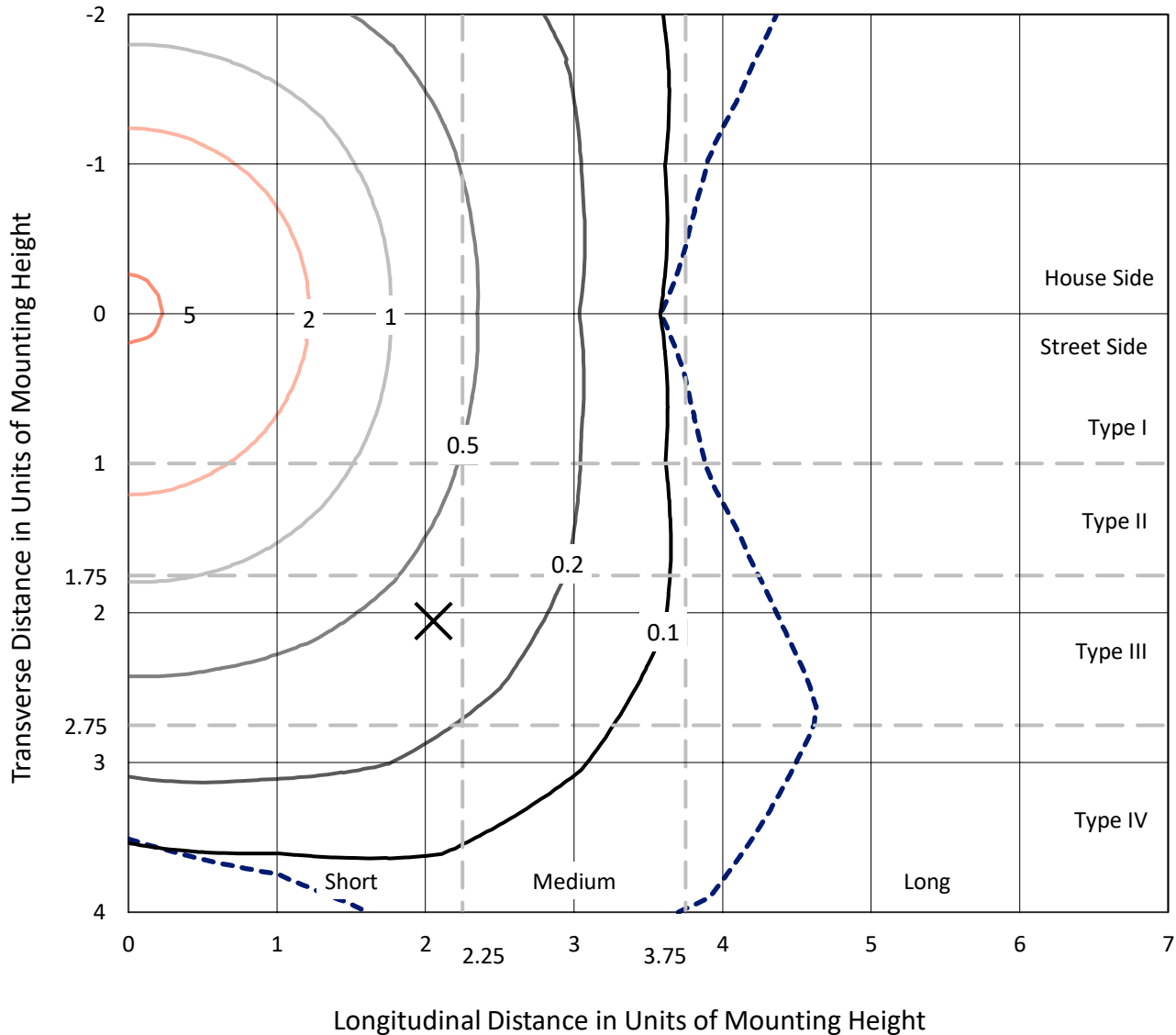
Input Watts (W): 182.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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### Iso-Footcandle Lines of Horizontal Illumination

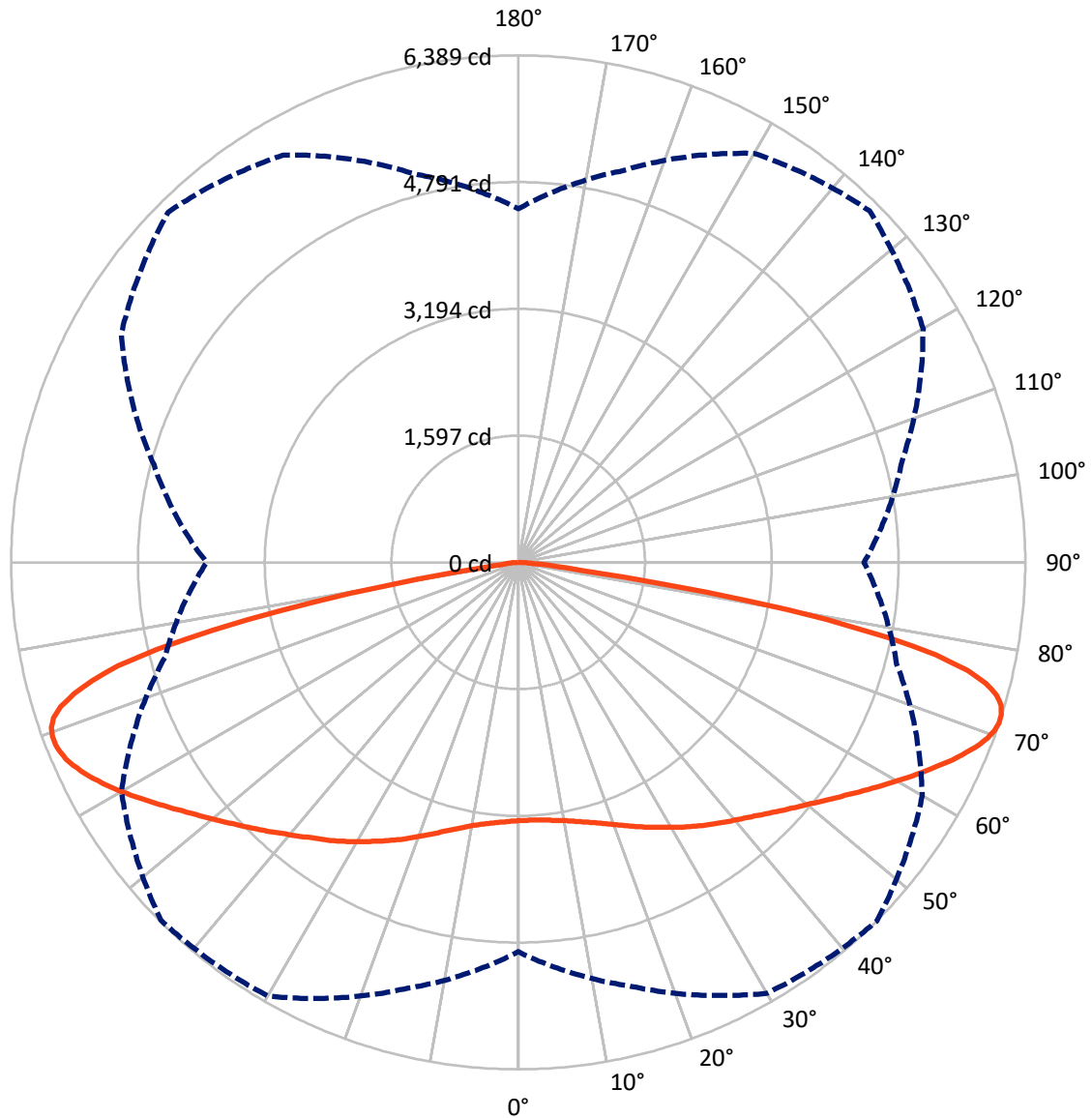
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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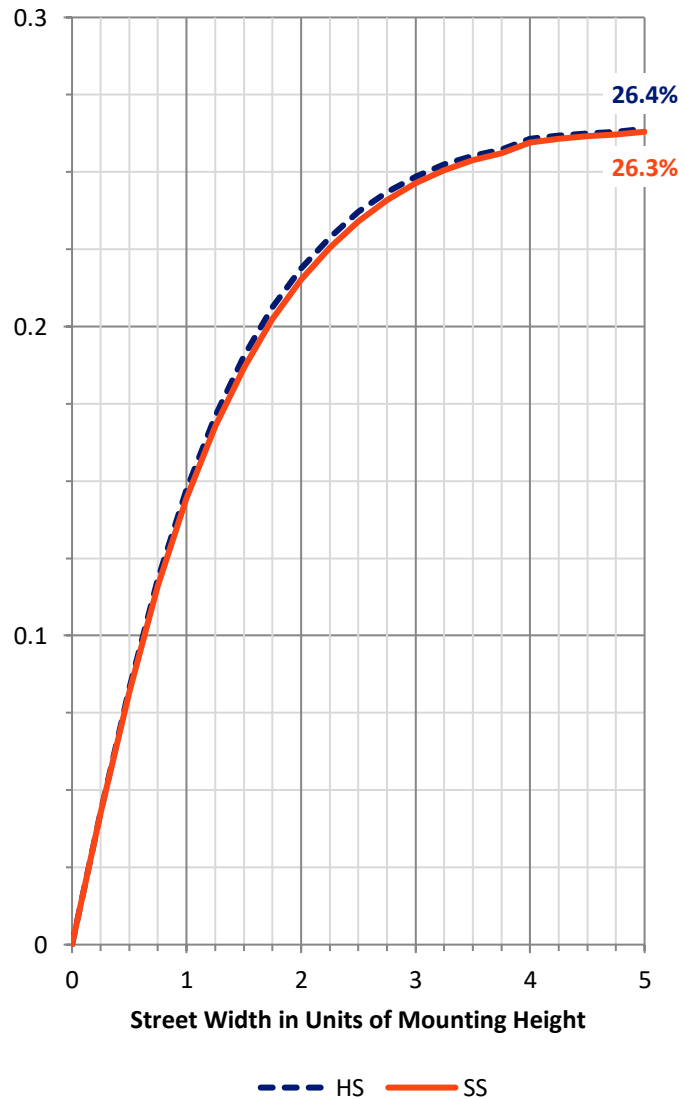
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11951.2	0.0	11951.2
	% Lamp	26.2	0.0	26.2
<b>Street Side</b>	Lumens	11946.0	0.0	11946.0
	% Lamp	26.2	0.0	26.2
<b>Total</b>	Lumens	23897.2	0.0	23897.2
	% Lamp	52.5	0.0	52.5

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	314.2	1.3	0.7
10°-20°	980.9	4.1	2.2
20°-30°	1748.0	7.3	3.8
30°-40°	2615.8	10.9	5.7
40°-50°	3580.7	15.0	7.9
50°-60°	4669.1	19.5	10.3
60°-70°	5629.1	23.6	12.4
70°-80°	4113.9	17.2	9.0
80°-90°	245.4	1.0	0.5
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°	23897.2	100.0	52.5
0°-180°	23897.2	100.0	52.5

**Coefficient of Utilization**



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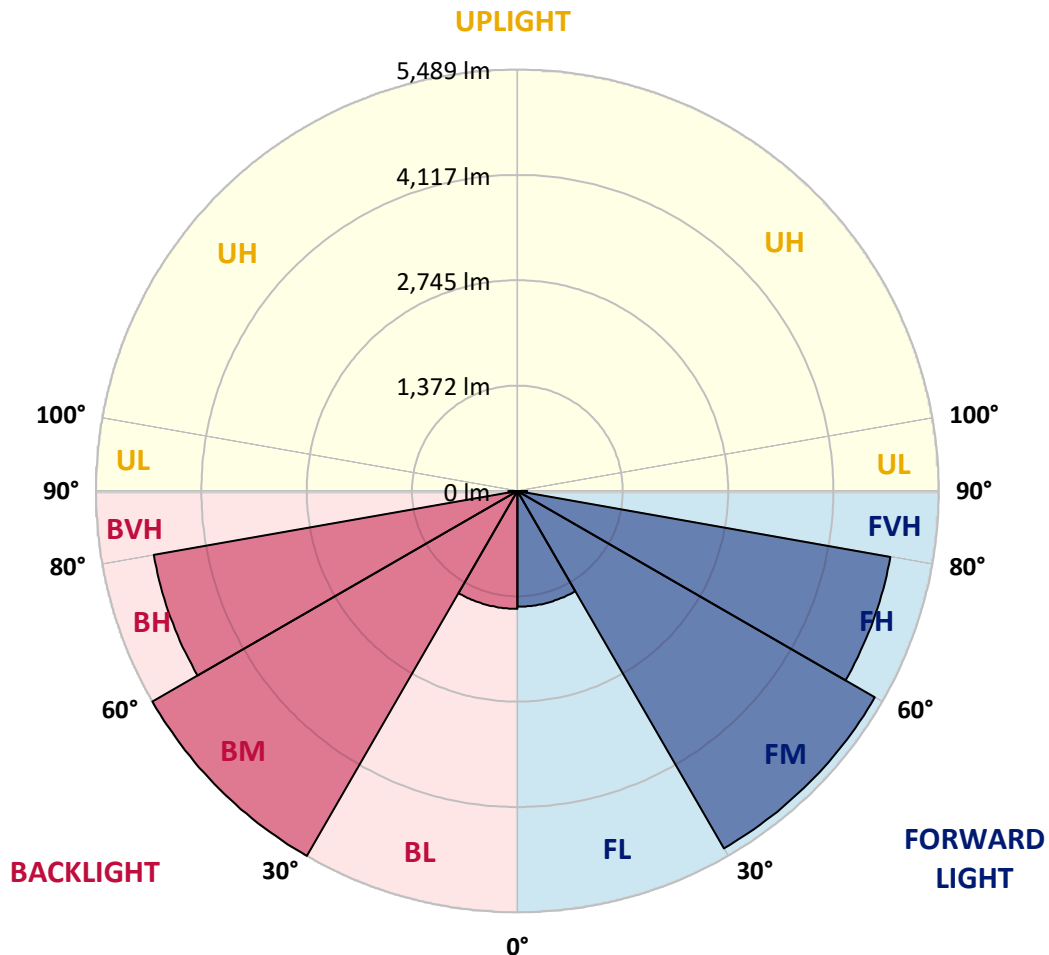
CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.8	3.3			
FM (30°-60°)	5376.3	11.8			
FH (60°-80°)	4934.1	10.8			G2/5000
FVH (80°-90°)	127.7	0.3			G2/225
BL (0°-30°)	1535.3	3.4	B3/2500		
BM (30°-60°)	5489.2	12.1	B4/8500		
BH (60°-80°)	4808.9	10.6	B4/5000		G2/5000
BVH (80°-90°)	117.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	21637.8	47.5			

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8
1°	3252.3	3251.3	3251.5	3252.1	3252.6	3253.8	3251.2	3251.2	3251.7	3252.6	3252.9
2°	3252.0	3251.3	3251.3	3252.0	3253.1	3253.9	3251.7	3252.3	3253.4	3255.0	3255.9
3°	3253.9	3252.4	3252.8	3253.1	3255.2	3256.9	3254.6	3255.8	3257.5	3259.5	3260.7
4°	3256.2	3254.9	3255.6	3257.3	3259.3	3261.2	3259.3	3260.7	3263.3	3265.4	3266.6
5°	3259.3	3258.4	3259.9	3261.9	3265.5	3268.6	3266.9	3268.5	3270.3	3272.8	3275.4
6°	3264.6	3262.9	3265.5	3268.9	3273.8	3277.4	3276.1	3277.5	3279.0	3281.3	3284.8
7°	3270.8	3270.1	3272.3	3277.8	3283.1	3286.1	3285.5	3287.5	3288.9	3291.5	3295.7
8°	3278.1	3277.4	3281.6	3287.6	3292.9	3297.7	3296.9	3299.1	3301.6	3304.1	3309.4
9°	3287.4	3286.1	3291.7	3297.9	3305.5	3310.5	3309.9	3312.0	3315.8	3319.2	3324.3
10°	3298.7	3297.8	3303.6	3310.9	3320.1	3325.3	3324.5	3326.1	3331.0	3337.0	3341.5
11°	3312.7	3310.6	3317.7	3326.1	3335.4	3340.3	3340.2	3341.7	3347.5	3355.4	3360.6
12°	3328.0	3325.7	3332.6	3342.3	3351.9	3357.8	3358.5	3360.3	3367.2	3376.4	3382.1
13°	3345.2	3342.2	3348.9	3360.4	3370.1	3377.0	3378.7	3381.7	3388.8	3398.7	3405.4
14°	3364.4	3361.5	3366.6	3379.6	3390.3	3400.2	3402.2	3404.5	3412.8	3422.6	3431.2
15°	3386.4	3381.9	3387.0	3400.0	3412.9	3423.9	3427.3	3430.6	3438.7	3448.7	3457.8
16°	3409.1	3404.2	3409.9	3422.1	3437.4	3449.6	3454.8	3459.3	3466.0	3476.1	3485.7
17°	3433.2	3426.6	3434.2	3445.7	3462.9	3478.1	3484.5	3488.0	3495.7	3505.5	3514.9
18°	3457.5	3451.3	3458.2	3472.8	3489.9	3508.3	3515.9	3519.7	3526.5	3536.8	3546.2
19°	3482.9	3476.6	3485.3	3502.3	3518.3	3539.0	3549.3	3552.1	3558.7	3569.1	3577.8
20°	3509.6	3503.7	3513.0	3531.6	3548.6	3570.6	3583.4	3586.5	3591.8	3602.2	3609.8
21°	3536.6	3531.5	3542.0	3562.6	3579.8	3605.0	3618.0	3623.2	3626.2	3637.7	3642.9
22°	3563.9	3559.7	3572.3	3593.8	3612.5	3639.8	3653.2	3660.9	3662.7	3672.9	3675.4
23°	3593.0	3590.0	3603.5	3627.0	3647.8	3675.7	3687.9	3697.6	3700.3	3708.6	3709.9
24°	3623.0	3621.8	3635.1	3660.2	3682.8	3709.3	3720.7	3733.9	3738.2	3744.4	3743.3
25°	3655.5	3654.7	3668.3	3694.8	3718.2	3743.4	3753.0	3769.9	3775.6	3781.0	3778.4
26°	3688.2	3689.9	3701.8	3729.7	3752.7	3779.1	3786.7	3806.1	3813.9	3817.6	3814.0
27°	3723.9	3726.0	3737.1	3765.1	3787.3	3815.4	3821.9	3843.9	3852.0	3853.7	3849.4
28°	3761.1	3763.5	3772.9	3800.4	3822.3	3852.5	3859.5	3880.6	3889.8	3891.1	3885.7
29°	3799.8	3801.0	3810.0	3836.9	3857.7	3889.8	3898.7	3919.3	3929.5	3927.5	3922.6
30°	3841.5	3840.1	3847.2	3873.4	3894.7	3928.4	3941.2	3959.9	3968.8	3965.1	3960.6
31°	3884.8	3879.2	3885.9	3912.5	3931.4	3968.1	3983.7	4001.1	4010.6	4004.7	3999.4
32°	3928.5	3918.1	3923.6	3951.0	3969.6	4005.5	4025.0	4041.1	4051.1	4045.3	4040.8
33°	3975.5	3957.0	3961.7	3988.2	4008.6	4043.3	4066.8	4080.4	4090.9	4086.4	4079.6
34°	4024.7	3996.7	4000.3	4026.5	4046.4	4081.2	4109.5	4119.4	4128.7	4124.6	4120.4
35°	4074.4	4037.2	4041.3	4067.2	4083.4	4119.7	4152.8	4158.7	4165.7	4165.0	4162.8
36°	4124.1	4076.7	4080.6	4105.7	4120.8	4157.2	4196.9	4197.2	4204.4	4206.6	4205.0
37°	4175.8	4114.0	4120.2	4142.9	4158.7	4191.6	4241.9	4235.6	4244.7	4248.4	4249.3
38°	4228.2	4150.1	4158.2	4182.7	4196.9	4227.1	4287.7	4272.6	4284.7	4291.3	4292.7
39°	4280.7	4187.1	4196.2	4221.4	4235.0	4264.9	4337.1	4311.1	4324.5	4334.7	4335.6
40°	4335.1	4226.4	4234.6	4261.1	4274.1	4304.5	4390.2	4352.5	4366.4	4380.5	4380.8
41°	4391.5	4269.1	4275.7	4302.5	4316.0	4347.4	4442.0	4395.7	4410.3	4425.6	4425.1
42°	4446.0	4317.2	4319.0	4346.8	4359.6	4392.5	4490.9	4442.4	4454.8	4473.2	4472.1
43°	4496.5	4369.1	4364.5	4393.8	4408.0	4438.3	4540.7	4489.3	4503.2	4522.5	4520.9
44°	4543.8	4423.7	4413.1	4443.0	4458.2	4487.9	4590.8	4536.9	4553.1	4574.4	4571.8



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CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4590.4	4477.4	4463.9	4494.1	4508.6	4539.8	4641.1	4586.2	4603.4	4627.7	4624.7
46°	4634.4	4534.5	4518.2	4548.5	4562.7	4593.4	4688.2	4639.7	4657.0	4682.5	4680.0
47°	4675.6	4595.1	4576.7	4602.8	4617.6	4649.7	4732.3	4695.5	4711.7	4739.6	4736.1
48°	4716.5	4658.9	4636.6	4660.2	4672.5	4705.6	4775.9	4752.5	4768.1	4798.6	4795.7
49°	4759.7	4725.8	4698.2	4720.1	4731.3	4762.7	4817.3	4808.5	4823.7	4857.1	4857.0
50°	4805.3	4796.3	4762.5	4781.0	4793.7	4822.7	4857.0	4866.5	4882.2	4918.0	4920.4
51°	4853.4	4868.1	4830.3	4844.8	4853.7	4881.8	4895.0	4924.0	4940.7	4980.2	4985.5
52°	4901.3	4942.0	4900.0	4912.0	4919.0	4942.6	4929.7	4982.8	5001.3	5044.2	5052.3
53°	4956.0	5018.4	4971.5	4984.8	4983.4	4999.4	4963.2	5038.0	5062.3	5110.5	5121.7
54°	5014.0	5093.3	5047.4	5058.3	5049.1	5052.8	4998.2	5091.2	5126.4	5177.9	5191.7
55°	5072.9	5166.8	5126.3	5135.4	5114.9	5104.4	5032.4	5141.5	5187.9	5249.2	5262.8
56°	5131.9	5238.7	5206.7	5215.4	5182.2	5157.1	5067.3	5190.8	5249.2	5321.6	5333.2
57°	5189.8	5306.9	5288.5	5295.9	5248.7	5208.5	5101.8	5237.4	5312.2	5398.8	5402.4
58°	5243.8	5372.0	5368.8	5381.4	5315.8	5253.9	5135.8	5280.1	5373.0	5477.0	5467.0
59°	5300.6	5429.2	5452.3	5467.0	5382.0	5293.8	5165.4	5320.0	5432.9	5557.2	5525.8
60°	5354.1	5484.8	5534.7	5555.7	5447.0	5329.0	5190.2	5355.2	5491.6	5639.1	5581.4
61°	5399.8	5532.6	5621.8	5645.4	5509.0	5356.8	5209.4	5383.0	5552.0	5722.6	5640.7
62°	5438.6	5574.0	5707.3	5734.1	5572.5	5375.7	5222.5	5406.1	5611.8	5803.9	5702.6
63°	5478.5	5613.9	5792.9	5823.3	5635.4	5390.4	5231.8	5425.5	5669.6	5883.7	5760.4
64°	5528.4	5652.2	5875.8	5913.6	5692.6	5398.2	5235.7	5437.6	5726.2	5962.4	5814.4
65°	5583.0	5697.4	5960.3	6005.4	5749.9	5403.5	5236.1	5446.5	5781.3	6033.8	5864.8
66°	5616.0	5745.7	6040.1	6092.6	5802.9	5405.6	5221.6	5448.1	5830.7	6101.0	5915.7
67°	5621.8	5783.4	6108.3	6173.4	5844.8	5395.1	5192.7	5435.0	5872.7	6157.6	5959.3
68°	5618.1	5795.5	6172.3	6251.1	5885.8	5357.3	5121.8	5404.0	5907.3	6206.4	5992.3
69°	5556.7	5777.7	6231.6	6315.6	5907.8	5288.0	4966.7	5337.4	5929.3	6241.1	5998.6
70°	5339.4	5712.6	6269.4	6363.9	5904.7	5149.3	4720.7	5213.3	5927.2	6263.1	5984.4
71°	4907.2	5532.6	6269.4	6388.6	5878.4	4935.0	4355.4	5011.3	5888.9	6262.1	5949.8
72°	4342.2	5191.3	6215.4	6381.7	5817.0	4648.5	3966.3	4715.9	5811.8	6234.8	5862.2
73°	3795.9	4717.2	6108.3	6345.0	5714.7	4308.7	3618.0	4352.0	5683.7	6156.1	5718.4
74°	3268.5	4187.7	5933.5	6256.8	5553.6	3973.1	3327.8	3974.8	5508.4	6016.5	5503.7
75°	2487.6	3600.1	5663.8	6082.1	5361.0	3641.2	2990.3	3622.0	5274.9	5801.8	5160.2
76°	1449.7	2835.3	5255.5	5820.2	5111.2	3221.0	2398.0	3249.1	4987.8	5509.0	4692.8
77°	570.4	1802.8	4707.2	5391.9	4777.2	2580.9	1688.1	2664.1	4629.2	5071.8	4131.9
78°	416.2	818.3	4024.2	4771.1	4285.8	1724.0	978.1	1887.8	4170.4	4447.1	3443.6
79°	276.5	581.2	3101.9	3947.4	3600.6	857.1	274.7	1111.4	3519.2	3602.5	2523.2
80°	136.7	363.2	1921.4	2924.9	2665.7	609.9	155.8	341.8	2629.9	2624.1	1791.1
81°	121.3	145.3	909.9	1853.7	1557.9	376.6	137.5	170.6	1844.5	1844.9	1058.9
82°	107.3	125.1	655.2	830.5	668.5	143.3	119.2	141.0	1059.1	1065.7	330.3
83°	93.6	107.1	404.4	609.3	482.1	116.4	101.0	121.6	279.9	287.2	178.6
84°	79.5	90.1	153.5	394.0	306.9	98.2	86.5	102.1	165.3	183.4	136.2
85°	64.9	73.4	115.9	178.8	131.6	80.7	71.8	84.4	129.6	152.9	94.1
86°	48.0	57.5	88.6	141.7	96.9	63.9	56.9	67.3	94.1	121.9	66.6
87°	32.7	42.7	67.1	105.6	74.3	48.9	41.5	52.1	71.3	90.8	46.7
88°	17.3	27.9	46.3	65.6	53.2	34.0	26.7	37.5	51.0	56.9	28.9
89°	7.1	13.2	24.8	34.5	29.0	19.2	18.7	26.1	35.1	39.1	20.4



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CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8
1°	3254.2	3255.5	3256.2	3256.8	3257.1	3257.6	3257.8	3254.6	3254.4	3254.1	3253.1
2°	3257.1	3259.8	3261.0	3262.4	3262.3	3263.1	3262.7	3260.2	3259.0	3257.5	3255.4
3°	3262.9	3265.7	3267.9	3268.9	3269.5	3269.7	3269.3	3266.8	3264.3	3262.1	3259.0
4°	3269.9	3272.9	3275.5	3277.0	3278.1	3278.5	3277.2	3273.2	3271.0	3268.3	3264.2
5°	3277.6	3281.2	3284.2	3286.8	3287.8	3287.7	3285.9	3281.6	3277.9	3274.9	3270.3
6°	3286.7	3291.3	3294.4	3297.1	3298.6	3298.3	3296.6	3291.6	3287.6	3282.7	3276.7
7°	3298.5	3303.0	3306.3	3309.6	3310.9	3310.7	3308.3	3303.6	3298.2	3292.7	3285.0
8°	3312.3	3316.3	3320.2	3324.4	3325.0	3324.8	3322.4	3316.5	3310.9	3305.0	3295.3
9°	3328.4	3332.0	3336.2	3340.4	3341.4	3339.9	3336.6	3330.7	3325.3	3319.1	3307.5
10°	3344.9	3348.9	3353.0	3358.4	3359.4	3357.2	3354.0	3348.5	3341.9	3333.7	3321.6
11°	3364.9	3369.6	3373.5	3378.2	3380.1	3378.3	3374.3	3369.4	3362.2	3351.4	3338.0
12°	3387.1	3391.9	3396.0	3400.2	3403.5	3402.1	3397.8	3393.7	3385.3	3372.7	3355.6
13°	3411.3	3416.3	3419.9	3424.8	3428.7	3427.9	3423.2	3418.9	3410.1	3396.5	3376.0
14°	3436.4	3441.6	3445.8	3451.2	3456.1	3456.4	3450.2	3445.2	3435.8	3421.2	3398.5
15°	3463.3	3469.3	3472.7	3480.2	3485.9	3485.2	3479.2	3474.3	3463.8	3446.9	3424.1
16°	3492.9	3498.4	3502.8	3510.7	3519.2	3517.4	3510.3	3506.7	3494.0	3475.0	3451.1
17°	3522.9	3528.6	3533.4	3543.0	3552.6	3549.6	3543.1	3539.8	3526.8	3505.7	3479.1
18°	3553.4	3558.6	3564.2	3576.0	3586.9	3583.6	3577.8	3574.6	3559.8	3537.0	3508.3
19°	3585.4	3589.8	3596.0	3609.9	3621.9	3618.2	3612.9	3609.9	3594.0	3570.6	3538.7
20°	3617.5	3620.6	3629.2	3643.7	3658.3	3654.7	3649.9	3646.4	3629.7	3603.9	3570.1
21°	3650.0	3652.4	3663.9	3679.9	3697.3	3692.3	3688.4	3684.4	3668.2	3638.3	3603.3
22°	3682.4	3684.9	3698.0	3715.0	3735.0	3731.1	3728.3	3720.6	3705.7	3672.9	3636.9
23°	3715.9	3717.7	3733.1	3752.8	3773.4	3769.5	3767.8	3756.6	3743.6	3710.5	3672.3
24°	3750.3	3752.7	3769.4	3789.0	3811.0	3810.1	3806.8	3791.7	3780.9	3748.5	3707.5
25°	3785.8	3789.0	3807.0	3827.3	3848.7	3850.7	3844.9	3828.0	3818.8	3785.2	3743.0
26°	3822.1	3827.3	3845.8	3866.7	3886.6	3892.0	3885.7	3864.8	3856.8	3821.4	3777.2
27°	3859.6	3866.2	3885.9	3905.0	3923.6	3932.6	3925.4	3902.4	3895.9	3858.5	3812.5
28°	3898.8	3908.2	3926.5	3943.2	3963.1	3974.7	3966.6	3943.6	3935.3	3895.8	3850.3
29°	3938.9	3951.4	3968.7	3981.5	4002.6	4016.1	4008.6	3988.1	3975.3	3933.6	3888.0
30°	3979.4	3995.4	4010.6	4020.7	4043.1	4057.0	4051.6	4033.0	4016.6	3970.8	3926.2
31°	4019.8	4041.5	4052.5	4061.5	4084.5	4096.8	4094.4	4078.2	4057.0	4009.6	3965.1
32°	4060.7	4088.7	4095.0	4102.0	4125.2	4137.2	4134.4	4119.0	4095.5	4047.6	4006.4
33°	4101.4	4137.5	4137.0	4142.2	4165.7	4175.4	4174.5	4160.2	4132.4	4086.9	4047.3
34°	4144.0	4185.2	4178.0	4183.9	4205.8	4212.4	4212.1	4201.7	4169.5	4124.8	4088.1
35°	4185.5	4235.5	4219.2	4225.6	4245.7	4249.2	4249.6	4243.7	4203.6	4163.1	4128.2
36°	4228.3	4286.3	4261.2	4267.2	4284.8	4286.8	4284.3	4285.9	4235.7	4199.9	4167.5
37°	4270.2	4336.3	4301.8	4309.8	4324.0	4325.6	4319.3	4332.2	4271.0	4237.8	4207.7
38°	4310.3	4387.1	4340.6	4351.5	4365.7	4364.7	4356.2	4381.5	4308.0	4275.1	4248.9
39°	4350.3	4440.1	4381.1	4392.7	4410.9	4405.6	4393.4	4432.9	4345.9	4316.3	4289.2
40°	4394.1	4494.8	4425.0	4436.7	4456.8	4447.1	4434.4	4486.2	4386.8	4359.0	4329.9
41°	4440.3	4547.7	4473.5	4481.7	4503.4	4491.4	4476.1	4542.7	4433.0	4404.0	4374.0
42°	4487.6	4600.2	4523.2	4529.3	4553.3	4537.2	4523.8	4599.3	4483.0	4449.2	4422.2
43°	4535.2	4651.8	4574.5	4579.5	4604.3	4584.2	4578.2	4653.7	4538.0	4497.5	4471.7
44°	4587.7	4701.6	4627.7	4630.9	4656.7	4633.9	4633.5	4702.3	4593.2	4547.2	4523.8

REPORT NUMBER: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4642.0	4750.9	4683.1	4684.2	4711.0	4687.0	4690.4	4746.9	4648.4	4602.2	4578.5
46°	4701.6	4801.3	4742.3	4740.5	4763.7	4743.3	4744.4	4792.0	4703.7	4660.1	4635.4
47°	4763.6	4850.6	4806.3	4798.9	4820.0	4802.6	4802.5	4835.5	4761.1	4720.5	4693.6
48°	4830.8	4894.7	4870.5	4857.8	4876.0	4863.9	4862.7	4874.8	4820.1	4780.1	4753.5
49°	4898.1	4939.9	4937.1	4917.4	4935.4	4925.7	4923.7	4910.7	4881.0	4839.6	4815.3
50°	4964.8	4986.4	5004.1	4981.4	4997.2	4988.6	4985.7	4946.2	4942.1	4899.2	4880.0
51°	5031.9	5035.2	5070.9	5044.9	5060.2	5048.3	5044.7	4981.6	5003.1	4961.2	4947.8
52°	5099.8	5082.2	5138.6	5113.7	5127.5	5109.7	5103.2	5017.8	5058.4	5024.2	5017.1
53°	5168.4	5127.3	5206.4	5181.9	5195.7	5171.6	5157.0	5052.7	5112.1	5087.0	5089.4
54°	5234.0	5171.2	5269.6	5252.9	5266.5	5235.1	5207.1	5088.1	5164.5	5151.1	5165.3
55°	5294.3	5215.4	5327.4	5324.2	5339.4	5295.9	5252.3	5121.2	5212.2	5210.6	5243.1
56°	5344.2	5256.5	5377.2	5395.1	5414.5	5356.8	5293.3	5152.7	5255.0	5273.3	5323.7
57°	5386.2	5296.9	5422.9	5468.0	5494.3	5415.5	5332.1	5182.2	5291.2	5336.3	5405.6
58°	5423.9	5335.3	5462.8	5532.1	5573.0	5473.3	5365.7	5209.9	5323.7	5394.0	5486.9
59°	5459.1	5371.5	5499.0	5589.8	5652.8	5530.0	5395.1	5229.4	5352.0	5452.3	5568.8
60°	5491.1	5403.5	5528.9	5649.1	5736.2	5583.0	5417.6	5243.5	5374.6	5514.7	5653.8
61°	5516.3	5432.3	5552.0	5712.6	5815.5	5634.9	5435.0	5258.6	5390.9	5574.6	5740.9
62°	5534.7	5461.7	5571.9	5774.0	5893.7	5689.5	5445.5	5269.1	5405.1	5631.8	5828.6
63°	5555.7	5489.0	5592.9	5828.6	5967.1	5744.6	5453.3	5270.7	5415.5	5689.5	5916.2
64°	5575.1	5516.3	5617.1	5875.3	6039.6	5795.0	5456.0	5265.5	5420.3	5743.6	6001.2
65°	5592.9	5521.6	5632.8	5918.3	6105.2	5843.3	5450.2	5245.4	5414.5	5792.4	6079.4
66°	5599.8	5484.8	5627.6	5964.0	6163.9	5886.3	5431.3	5199.7	5397.2	5835.4	6152.9
67°	5583.0	5440.2	5602.9	5998.6	6213.8	5912.0	5386.7	5122.6	5350.5	5871.6	6223.2
68°	5552.0	5366.2	5567.7	6023.3	6247.4	5914.6	5322.1	4977.6	5273.8	5892.6	6287.8
69°	5483.8	5193.1	5489.0	6020.1	6266.3	5894.7	5214.6	4714.2	5143.0	5884.2	6335.0
70°	5347.3	4896.9	5332.1	5990.2	6266.8	5851.1	5033.9	4336.3	4920.5	5844.3	6365.5
71°	5110.4	4453.9	5067.4	5925.1	6241.6	5773.5	4752.0	3926.1	4604.6	5773.5	6371.8
72°	4729.8	3908.8	4657.0	5810.7	6176.5	5667.5	4388.0	3597.3	4236.3	5667.5	6345.5
73°	4214.6	3336.7	4150.6	5647.0	6043.7	5508.4	4021.1	3321.6	3892.1	5491.1	6267.8
74°	3632.1	2762.4	3579.8	5387.2	5833.8	5298.5	3681.8	2970.9	3552.6	5267.6	6119.8
75°	3015.1	2042.7	2932.4	4987.5	5571.4	5035.1	3291.8	2333.2	3145.0	4993.2	5892.6
76°	2316.2	1292.0	2215.5	4482.7	5210.3	4695.6	2711.2	1476.7	2520.7	4648.2	5555.7
77°	1648.2	542.3	1580.5	3876.5	4678.7	4232.5	1912.3	667.9	1699.3	4201.6	5034.1
78°	980.2	224.8	945.5	3118.3	3940.1	3600.4	1113.3	487.3	843.4	3595.9	4251.4
79°	323.6	143.9	311.8	2169.1	3047.9	2767.2	317.9	312.2	596.8	2745.5	3273.8
80°	169.1	122.7	168.8	1389.6	2165.9	1951.9	170.9	137.1	371.2	1681.8	2218.0
81°	141.5	101.6	140.6	610.4	1283.9	1136.6	144.7	118.5	145.6	748.6	1147.7
82°	113.9	86.5	112.5	250.3	420.9	334.6	126.4	103.7	120.5	534.8	395.5
83°	86.5	72.6	84.6	195.1	212.5	184.0	108.1	89.0	103.2	336.6	290.1
84°	70.1	60.0	68.3	140.0	172.5	150.1	89.8	74.0	85.6	138.4	186.0
85°	53.9	45.9	51.8	85.5	140.3	116.2	73.0	58.4	68.6	103.3	155.6
86°	38.8	31.1	36.7	61.3	108.1	82.3	57.2	43.7	53.0	79.5	122.9
87°	27.5	21.5	26.0	41.0	76.0	61.0	42.5	29.0	38.0	58.9	84.2
88°	16.1	12.0	15.3	28.5	51.9	41.7	29.3	14.4	23.0	47.5	42.6
89°	4.9	2.6	4.7	16.1	27.8	28.9	16.2	4.6	8.1	36.1	32.4



REPORT NUMBER: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	3252.8	3252.8	3252.8
1°	3252.4	3251.3	3252.3
2°	3253.6	3252.0	3252.0
3°	3255.9	3254.1	3253.9
4°	3259.9	3257.5	3256.2
5°	3265.2	3261.3	3259.3
6°	3271.3	3266.5	3264.6
7°	3278.9	3273.3	3270.8
8°	3287.4	3280.9	3278.1
9°	3297.8	3290.6	3287.4
10°	3309.7	3302.5	3298.7
11°	3324.8	3315.7	3312.7
12°	3341.4	3331.8	3328.0
13°	3358.8	3348.5	3345.2
14°	3378.1	3367.7	3364.4
15°	3400.5	3389.7	3386.4
16°	3425.5	3413.3	3409.1
17°	3451.9	3438.1	3433.2
18°	3479.3	3463.2	3457.5
19°	3508.6	3490.1	3482.9
20°	3538.9	3517.8	3509.6
21°	3570.3	3546.7	3536.6
22°	3602.2	3576.5	3563.9
23°	3635.0	3608.9	3593.0
24°	3668.2	3642.4	3623.0
25°	3702.4	3677.7	3655.5
26°	3737.2	3713.8	3688.2
27°	3772.9	3750.5	3723.9
28°	3809.7	3787.6	3761.1
29°	3846.5	3825.5	3799.8
30°	3884.1	3864.2	3841.5
31°	3922.4	3903.8	3884.8
32°	3961.7	3941.3	3928.5
33°	4001.9	3981.3	3975.5
34°	4042.0	4022.1	4024.7
35°	4083.5	4062.8	4074.4
36°	4125.4	4101.8	4124.1
37°	4164.9	4139.7	4175.8
38°	4206.3	4176.4	4228.2
39°	4247.3	4213.6	4280.7
40°	4288.1	4253.5	4335.1
41°	4330.1	4298.9	4391.5
42°	4375.3	4347.5	4446.0
43°	4423.0	4399.3	4496.5
44°	4475.3	4453.9	4543.8



REPORT NUMBER: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	4529.9	4510.3	4590.4
46°	4589.8	4568.4	4634.4
47°	4650.8	4631.7	4675.6
48°	4712.0	4696.2	4716.5
49°	4776.9	4764.6	4759.7
50°	4841.7	4836.0	4805.3
51°	4911.5	4909.1	4853.4
52°	4983.2	4985.5	4901.3
53°	5055.4	5059.1	4956.0
54°	5133.1	5135.4	5014.0
55°	5210.7	5209.1	5072.9
56°	5290.1	5281.7	5131.9
57°	5370.4	5351.5	5189.8
58°	5452.8	5414.0	5243.8
59°	5536.8	5470.1	5300.6
60°	5623.4	5524.2	5354.1
61°	5707.9	5578.8	5399.8
62°	5792.4	5631.8	5438.6
63°	5877.9	5674.3	5478.5
64°	5961.4	5706.8	5528.4
65°	6045.3	5746.7	5583.0
66°	6126.1	5801.3	5616.0
67°	6197.5	5837.5	5621.8
68°	6247.9	5841.7	5618.1
69°	6298.3	5812.3	5556.7
70°	6327.7	5741.5	5339.4
71°	6310.9	5566.7	4907.2
72°	6225.9	5219.6	4342.2
73°	6106.2	4730.7	3795.9
74°	5921.5	4184.5	3268.5
75°	5577.2	3573.8	2487.6
76°	5105.6	2799.6	1449.7
77°	4537.5	1804.7	570.4
78°	3809.8	848.9	416.2
79°	2785.0	601.9	276.5
80°	1542.8	377.1	136.7
81°	685.6	152.2	121.3
82°	493.9	125.2	107.3
83°	316.6	107.2	93.6
84°	139.3	89.7	79.5
85°	106.4	71.9	64.9
86°	82.7	55.4	48.0
87°	60.8	40.5	32.7
88°	48.9	25.5	17.3
89°	37.2	10.6	7.1



REPORT NUMBER: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**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: P1436780

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)