

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: P1436804

Luminaire Tested: XAS300-SFPM (4000K-180W-T4-HSS)

Issue Date: 3/25/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1436804  
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 (4000K-180W-T4-HSS)  
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.  
LUMEN OUTPUT - 60% (180W)  
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: 45535 (1 lamp)  
Luminaire Lumens: 25479.8 lumens  
Efficiency: 56.0%  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

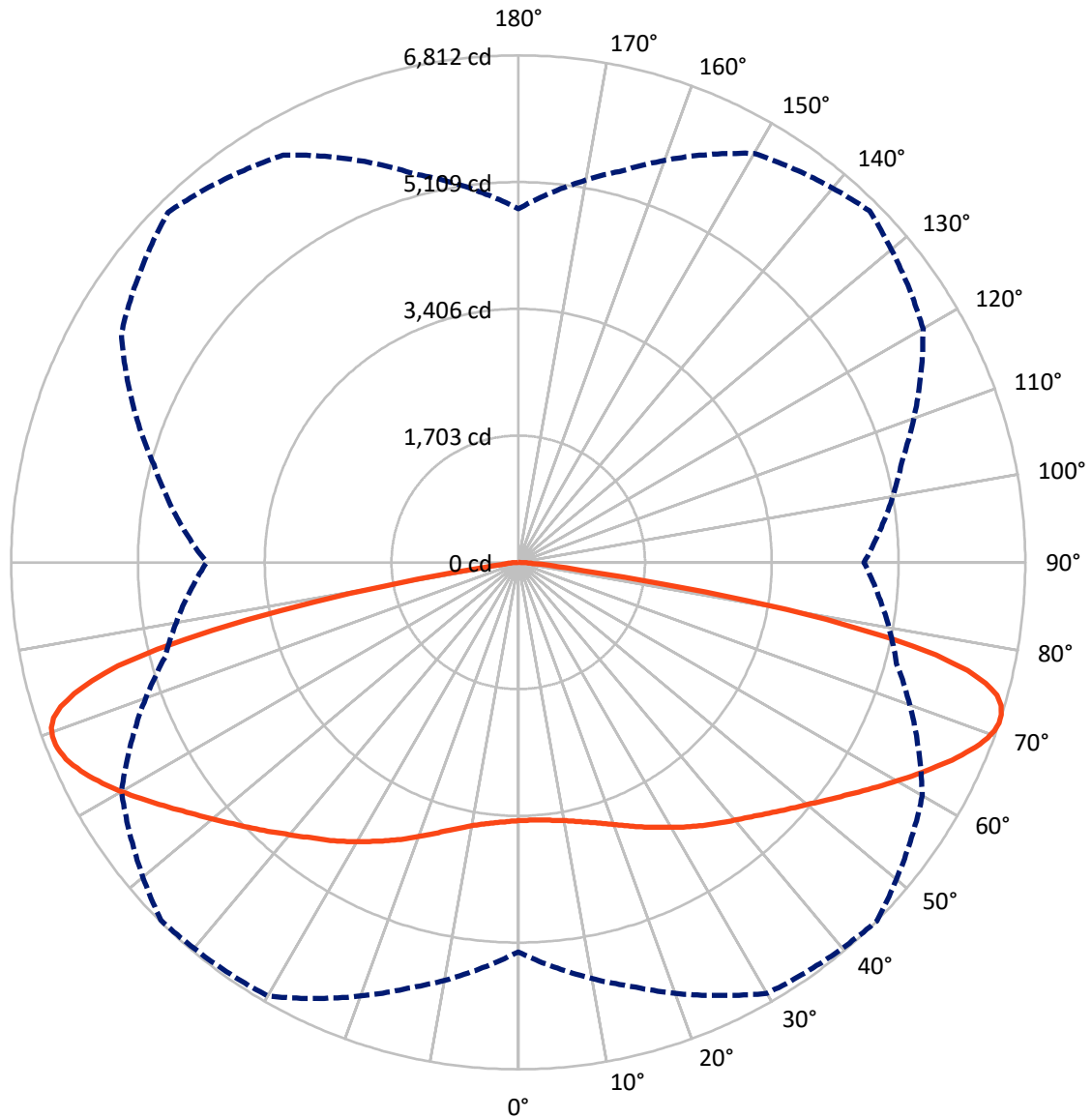
Input Watts (W): 177.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

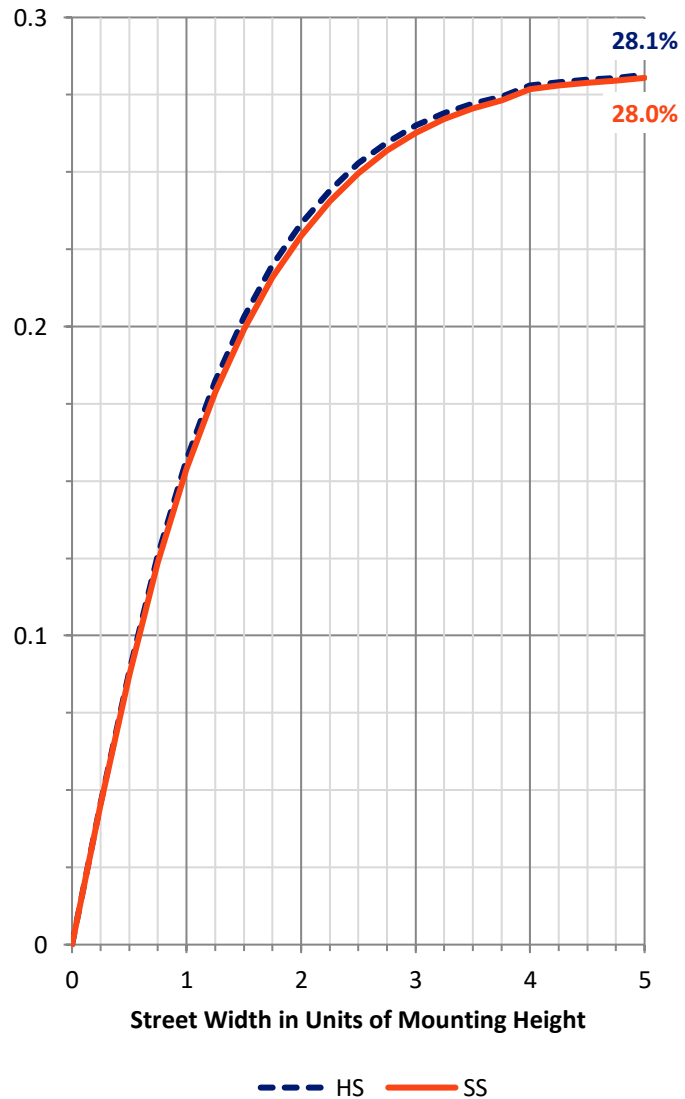
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12742.7	0.0	12742.7
	% Lamp	28.0	0.0	28.0
<b>Street Side</b>	Lumens	12737.1	0.0	12737.1
	% Lamp	28.0	0.0	28.0
<b>Total</b>	Lumens	25479.8	0.0	25479.8
	% Lamp	56.0	0.0	56.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	335.1	1.3	0.7
10°-20°	1045.8	4.1	2.3
20°-30°	1863.8	7.3	4.1
30°-40°	2789.0	10.9	6.1
40°-50°	3817.8	15.0	8.4
50°-60°	4978.3	19.5	10.9
60°-70°	6001.9	23.6	13.2
70°-80°	4386.4	17.2	9.6
80°-90°	261.7	1.0	0.6
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°	25479.8	100.0	56.0
0°-180°	25479.8	100.0	56.0

**Coefficient of Utilization**



REPORT NUMBER: P1436804

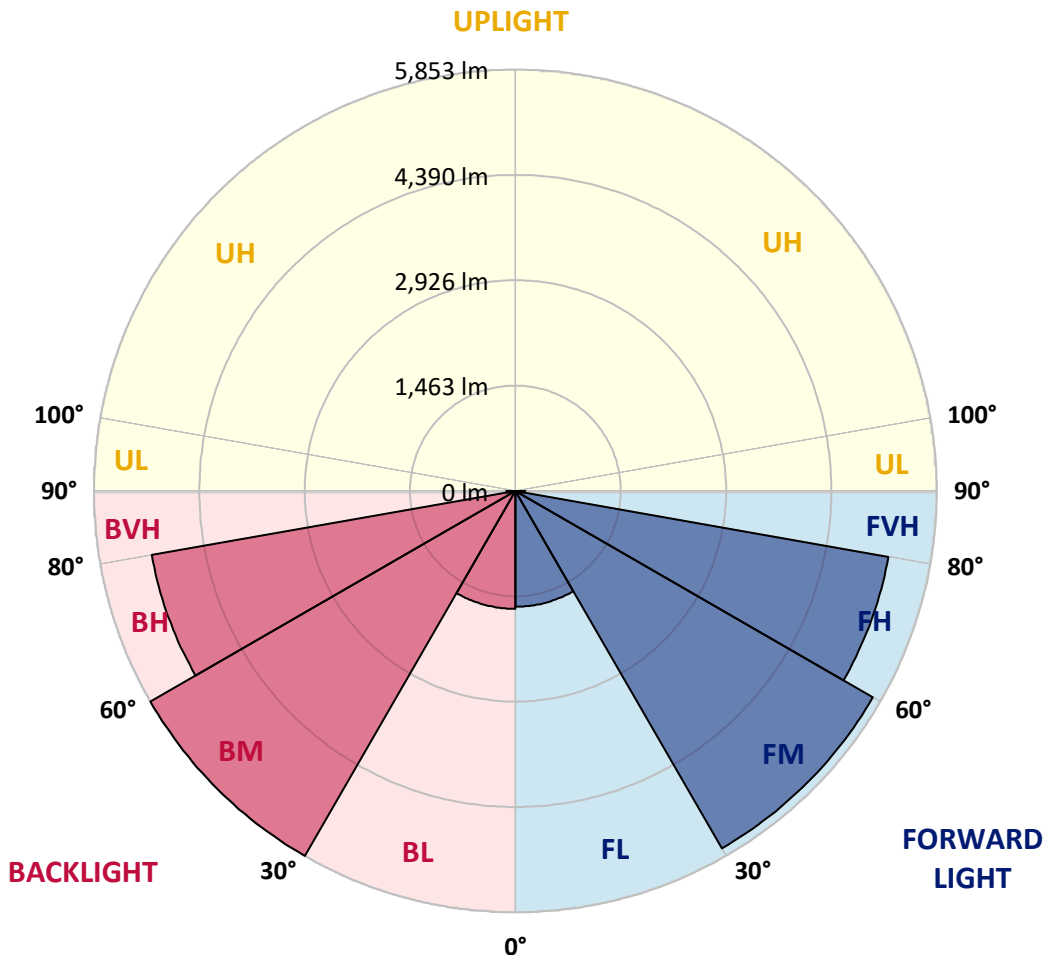
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.7	3.5			
FM (30°-60°)	5732.4	12.6			
FH (60°-80°)	5260.9	11.6			G3/7500
FVH (80°-90°)	136.1	0.3			G2/225
BL (0°-30°)	1637.0	3.6	B3/2500		
BM (30°-60°)	5852.8	12.9	B4/8500		
BH (60°-80°)	5127.4	11.3	B5		G3/7500
BVH (80°-90°)	125.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	20055.2	44.0			

**BUG Rating: B5-U0-G3**

Type V Short





REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2
1°	3467.7	3466.6	3466.9	3467.4	3468.0	3469.3	3466.5	3466.5	3467.0	3468.0	3468.4
2°	3467.4	3466.6	3466.6	3467.4	3468.5	3469.4	3467.0	3467.7	3468.8	3470.6	3471.6
3°	3469.4	3467.8	3468.3	3468.5	3470.7	3472.6	3470.2	3471.4	3473.2	3475.3	3476.6
4°	3471.8	3470.5	3471.2	3473.0	3475.2	3477.2	3475.2	3476.6	3479.5	3481.6	3483.0
5°	3475.2	3474.2	3475.8	3477.9	3481.8	3485.1	3483.3	3484.9	3486.9	3489.6	3492.3
6°	3480.8	3479.0	3481.8	3485.3	3490.6	3494.5	3493.1	3494.5	3496.2	3498.7	3502.3
7°	3487.4	3486.6	3489.0	3494.9	3500.6	3503.7	3503.1	3505.3	3506.7	3509.5	3514.0
8°	3495.2	3494.5	3498.9	3505.3	3511.0	3516.1	3515.3	3517.6	3520.3	3522.9	3528.5
9°	3505.1	3503.7	3509.7	3516.3	3524.4	3529.7	3529.2	3531.3	3535.4	3539.0	3544.4
10°	3517.1	3516.2	3522.4	3530.2	3540.0	3545.5	3544.7	3546.4	3551.6	3558.0	3562.8
11°	3532.1	3529.9	3537.4	3546.4	3556.3	3561.5	3561.4	3563.1	3569.2	3577.6	3583.1
12°	3548.4	3546.0	3553.3	3563.7	3573.9	3580.2	3581.0	3582.9	3590.2	3600.0	3606.0
13°	3566.7	3563.6	3570.7	3583.0	3593.3	3600.6	3602.5	3605.6	3613.3	3623.8	3630.9
14°	3587.2	3584.1	3589.5	3603.4	3614.8	3625.4	3627.5	3630.0	3638.8	3649.2	3658.5
15°	3610.7	3605.9	3611.3	3625.2	3638.9	3650.6	3654.3	3657.8	3666.5	3677.0	3686.8
16°	3634.9	3629.6	3635.7	3648.8	3665.0	3678.1	3683.6	3688.4	3695.6	3706.3	3716.6
17°	3660.5	3653.5	3661.6	3673.9	3692.3	3708.5	3715.3	3719.0	3727.2	3737.6	3747.7
18°	3686.5	3679.9	3687.2	3702.8	3721.0	3740.6	3748.7	3752.8	3760.1	3771.1	3781.0
19°	3713.5	3706.9	3716.1	3734.3	3751.3	3773.4	3784.3	3787.4	3794.3	3805.5	3814.8
20°	3742.1	3735.7	3745.7	3765.5	3783.6	3807.1	3820.7	3824.0	3829.7	3840.8	3848.9
21°	3770.8	3765.4	3776.5	3798.5	3816.8	3843.7	3857.6	3863.1	3866.3	3878.6	3884.1
22°	3799.9	3795.5	3808.9	3831.8	3851.7	3880.9	3895.2	3903.3	3905.3	3916.1	3918.8
23°	3830.9	3827.8	3842.1	3867.2	3889.4	3919.1	3932.1	3942.4	3945.4	3954.2	3955.5
24°	3862.9	3861.6	3875.8	3902.6	3926.7	3955.0	3967.1	3981.2	3985.8	3992.4	3991.2
25°	3897.6	3896.8	3911.2	3939.5	3964.4	3991.4	4001.6	4019.6	4025.7	4031.4	4028.7
26°	3932.4	3934.3	3946.9	3976.8	4001.2	4029.4	4037.5	4058.2	4066.5	4070.5	4066.6
27°	3970.5	3972.7	3984.6	4014.4	4038.1	4068.1	4075.0	4098.5	4107.1	4108.9	4104.3
28°	4010.2	4012.8	4022.7	4052.1	4075.4	4107.6	4115.1	4137.6	4147.4	4148.8	4143.0
29°	4051.4	4052.7	4062.3	4091.0	4113.2	4147.4	4156.9	4178.9	4189.7	4187.6	4182.3
30°	4095.9	4094.4	4102.0	4130.0	4152.7	4188.5	4202.2	4222.2	4231.6	4227.7	4222.9
31°	4142.1	4136.1	4143.3	4171.6	4191.8	4230.9	4247.5	4266.0	4276.2	4270.0	4264.3
32°	4188.7	4177.6	4183.4	4212.6	4232.5	4270.8	4291.6	4308.7	4319.4	4313.2	4308.4
33°	4238.8	4219.0	4224.0	4252.3	4274.1	4311.0	4336.2	4350.6	4361.8	4357.0	4349.8
34°	4291.3	4261.3	4265.2	4293.2	4314.4	4351.4	4381.7	4392.2	4402.1	4397.8	4393.3
35°	4344.3	4304.6	4308.9	4336.6	4353.8	4392.5	4427.9	4434.1	4441.6	4440.8	4438.5
36°	4397.3	4346.7	4350.8	4377.6	4393.7	4432.5	4474.8	4475.2	4482.8	4485.2	4483.5
37°	4452.3	4386.5	4393.0	4417.3	4434.1	4469.2	4522.8	4516.1	4525.9	4529.7	4530.7
38°	4508.2	4425.0	4433.6	4459.7	4474.9	4507.0	4571.7	4555.6	4568.5	4575.5	4577.0
39°	4564.2	4464.4	4474.2	4501.0	4515.5	4547.3	4624.3	4596.6	4610.9	4621.8	4622.8
40°	4622.2	4506.3	4515.0	4543.3	4557.2	4589.5	4680.9	4640.8	4655.6	4670.6	4670.9
41°	4682.3	4551.8	4558.8	4587.4	4601.8	4635.3	4736.1	4686.8	4702.3	4718.7	4718.2
42°	4740.5	4603.1	4605.0	4634.6	4648.3	4683.4	4788.3	4736.6	4749.8	4769.4	4768.3
43°	4794.3	4658.5	4653.6	4684.8	4699.9	4732.3	4841.4	4786.6	4801.4	4822.0	4820.3
44°	4844.8	4716.6	4705.4	4737.3	4753.4	4785.1	4894.8	4837.4	4854.7	4877.3	4874.6



REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4894.4	4773.9	4759.5	4791.8	4807.2	4840.4	4948.5	4889.9	4908.3	4934.2	4931.0
46°	4941.3	4834.9	4817.4	4849.7	4864.9	4897.6	4998.7	4947.0	4965.5	4992.7	4990.0
47°	4985.2	4899.4	4879.8	4907.7	4923.4	4957.6	5045.7	5006.5	5023.8	5053.5	5049.8
48°	5028.9	4967.5	4943.6	4968.9	4982.0	5017.2	5092.1	5067.2	5083.9	5116.4	5113.3
49°	5075.0	5038.8	5009.4	5032.7	5044.7	5078.1	5136.3	5127.0	5143.2	5178.8	5178.7
50°	5123.5	5113.9	5077.9	5097.6	5111.2	5142.1	5178.7	5188.8	5205.6	5243.7	5246.3
51°	5174.8	5190.5	5150.2	5165.6	5175.2	5205.1	5219.2	5250.1	5268.0	5310.0	5315.7
52°	5225.9	5269.3	5224.5	5237.3	5244.8	5270.0	5256.2	5312.8	5332.5	5378.2	5386.9
53°	5284.2	5350.8	5300.7	5315.0	5313.5	5330.5	5291.9	5371.6	5397.6	5449.0	5460.9
54°	5346.1	5430.6	5381.7	5393.3	5383.5	5387.4	5329.2	5428.4	5465.9	5520.8	5535.5
55°	5408.9	5509.0	5465.8	5475.4	5453.6	5442.4	5365.7	5482.0	5531.5	5596.8	5611.4
56°	5471.8	5585.6	5551.5	5560.8	5525.4	5498.7	5402.9	5534.5	5596.8	5674.0	5686.3
57°	5533.5	5658.4	5638.8	5646.6	5596.3	5553.5	5439.6	5584.2	5664.0	5756.3	5760.2
58°	5591.1	5727.8	5724.4	5737.8	5667.9	5601.9	5475.9	5629.8	5728.9	5839.7	5829.0
59°	5651.7	5788.8	5813.4	5829.0	5738.4	5644.4	5507.5	5672.4	5792.7	5925.3	5891.7
60°	5708.7	5848.1	5901.2	5923.6	5807.8	5681.9	5533.9	5709.9	5855.3	6012.6	5951.0
61°	5757.4	5899.0	5994.1	6019.3	5873.8	5711.5	5554.4	5739.5	5919.7	6101.5	6014.3
62°	5798.8	5943.2	6085.3	6113.9	5941.5	5731.7	5568.4	5764.1	5983.5	6188.3	6080.3
63°	5841.3	5985.7	6176.5	6209.0	6008.7	5747.3	5578.3	5784.8	6045.0	6273.3	6141.8
64°	5894.5	6026.6	6264.9	6305.2	6069.7	5755.7	5582.4	5797.7	6105.5	6357.3	6199.5
65°	5952.7	6074.7	6355.0	6403.2	6130.6	5761.3	5582.8	5807.2	6164.2	6433.4	6253.2
66°	5988.0	6126.2	6440.1	6496.0	6187.2	5763.6	5567.4	5808.9	6216.8	6505.0	6307.5
67°	5994.1	6166.5	6512.8	6582.2	6231.9	5752.4	5536.6	5794.9	6261.6	6565.4	6353.9
68°	5990.2	6179.3	6581.1	6665.0	6275.6	5712.1	5461.0	5761.9	6298.5	6617.5	6389.2
69°	5924.7	6160.3	6644.3	6733.9	6299.1	5638.2	5295.7	5690.8	6322.0	6654.4	6395.9
70°	5693.1	6090.9	6684.6	6785.3	6295.7	5490.3	5033.3	5558.6	6319.8	6677.9	6380.8
71°	5232.2	5899.0	6684.6	6811.6	6267.7	5261.9	4643.9	5343.2	6278.9	6676.8	6343.8
72°	4629.8	5535.2	6627.0	6804.4	6202.3	4956.3	4229.0	5028.2	6196.7	6647.7	6250.4
73°	4047.3	5029.6	6512.8	6765.2	6093.2	4594.0	3857.6	4640.2	6060.1	6563.8	6097.1
74°	3484.9	4465.1	6326.5	6671.2	5921.4	4236.2	3548.2	4238.1	5873.2	6414.9	5868.2
75°	2652.4	3838.5	6038.9	6484.9	5716.0	3882.4	3188.3	3861.9	5624.2	6186.0	5502.0
76°	1545.8	3023.1	5603.5	6205.6	5449.7	3434.4	2556.8	3464.2	5318.2	5873.8	5003.6
77°	608.2	1922.2	5018.9	5749.0	5093.5	2751.8	1799.9	2840.5	4935.7	5407.7	4405.5
78°	443.7	872.5	4290.7	5087.0	4569.6	1838.1	1042.9	2012.8	4446.6	4741.6	3671.7
79°	294.8	619.7	3307.3	4208.9	3839.0	913.9	292.9	1185.0	3752.3	3841.1	2690.4
80°	145.8	387.3	2048.7	3118.6	2842.3	650.3	166.1	364.5	2804.1	2797.8	1909.7
81°	129.4	154.9	970.1	1976.5	1661.1	401.6	146.6	181.9	1966.7	1967.1	1129.0
82°	114.4	133.4	698.6	885.5	712.7	152.8	127.1	150.4	1129.3	1136.3	352.2
83°	99.8	114.2	431.1	649.6	514.0	124.1	107.7	129.6	298.4	306.2	190.5
84°	84.8	96.0	163.6	420.1	327.2	104.7	92.3	108.9	176.2	195.5	145.2
85°	69.2	78.2	123.6	190.6	140.3	86.0	76.6	90.0	138.2	163.0	100.3
86°	51.2	61.3	94.5	151.1	103.3	68.1	60.7	71.8	100.3	129.9	71.1
87°	34.8	45.5	71.6	112.6	79.2	52.1	44.2	55.5	76.0	96.8	49.8
88°	18.5	29.8	49.4	70.0	56.7	36.3	28.4	40.0	54.4	60.6	30.8
89°	7.6	14.0	26.4	36.8	31.0	20.4	19.9	27.8	37.4	41.7	21.7



REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2	3468.2
1°	3469.7	3471.1	3471.9	3472.5	3472.8	3473.4	3473.5	3470.1	3469.9	3469.6	3468.5
2°	3472.8	3475.7	3476.9	3478.5	3478.3	3479.2	3478.7	3476.2	3474.8	3473.2	3471.0
3°	3479.0	3481.9	3484.3	3485.4	3486.0	3486.2	3485.8	3483.1	3480.5	3478.1	3474.8
4°	3486.5	3489.7	3492.4	3494.1	3495.2	3495.6	3494.2	3490.0	3487.6	3484.8	3480.4
5°	3494.7	3498.5	3501.7	3504.5	3505.5	3505.4	3503.5	3498.9	3495.0	3491.8	3486.8
6°	3504.4	3509.3	3512.5	3515.5	3517.0	3516.8	3514.9	3509.6	3505.3	3500.1	3493.7
7°	3517.0	3521.8	3525.2	3528.8	3530.2	3530.0	3527.4	3522.4	3516.6	3510.8	3502.6
8°	3531.6	3536.0	3540.1	3544.5	3545.2	3545.0	3542.5	3536.1	3530.2	3523.9	3513.5
9°	3548.8	3552.7	3557.1	3561.6	3562.7	3561.1	3557.6	3551.3	3545.5	3538.9	3526.6
10°	3566.5	3570.7	3575.1	3580.8	3581.9	3579.6	3576.1	3570.3	3563.2	3554.5	3541.6
11°	3587.8	3592.7	3596.9	3601.9	3604.0	3602.0	3597.8	3592.5	3584.8	3573.3	3559.1
12°	3611.4	3616.5	3620.9	3625.4	3628.9	3627.4	3622.8	3618.5	3609.4	3596.0	3577.8
13°	3637.3	3642.6	3646.4	3651.6	3655.7	3654.9	3649.9	3645.4	3635.9	3621.4	3599.6
14°	3664.0	3669.5	3674.0	3679.7	3685.0	3685.3	3678.7	3673.4	3663.4	3647.7	3623.6
15°	3692.7	3699.1	3702.7	3710.7	3716.7	3716.0	3709.7	3704.4	3693.2	3675.2	3650.9
16°	3724.2	3730.0	3734.7	3743.2	3752.3	3750.3	3742.8	3738.9	3725.4	3705.1	3679.6
17°	3756.2	3762.3	3767.4	3777.7	3787.9	3784.7	3777.7	3774.2	3760.4	3737.9	3709.6
18°	3788.7	3794.3	3800.3	3812.9	3824.5	3820.9	3814.7	3811.3	3795.6	3771.2	3740.7
19°	3822.8	3827.5	3834.1	3849.0	3861.8	3857.8	3852.2	3849.0	3832.0	3807.0	3773.0
20°	3857.1	3860.4	3869.5	3885.0	3900.6	3896.7	3891.6	3887.9	3870.1	3842.6	3806.5
21°	3891.7	3894.3	3906.6	3923.6	3942.1	3936.8	3932.7	3928.4	3911.2	3879.2	3841.9
22°	3926.3	3928.9	3942.9	3961.0	3982.3	3978.2	3975.2	3967.0	3951.1	3916.1	3877.8
23°	3962.0	3963.9	3980.3	4001.3	4023.3	4019.2	4017.3	4005.3	3991.5	3956.3	3915.5
24°	3998.6	4001.2	4019.1	4039.9	4063.4	4062.5	4059.0	4042.8	4031.3	3996.8	3953.0
25°	4036.6	4039.9	4059.1	4080.8	4103.5	4105.7	4099.6	4081.6	4071.7	4035.9	3990.9
26°	4075.2	4080.8	4100.5	4122.7	4144.0	4149.7	4143.0	4120.8	4112.2	4074.5	4027.3
27°	4115.2	4122.3	4143.3	4163.6	4183.4	4193.1	4185.4	4160.8	4153.9	4114.1	4064.9
28°	4157.0	4167.0	4186.5	4204.4	4225.5	4237.9	4229.3	4204.7	4195.9	4153.8	4105.3
29°	4199.7	4213.1	4231.6	4245.2	4267.7	4282.1	4274.1	4252.2	4238.6	4194.1	4145.5
30°	4243.0	4260.0	4276.2	4287.0	4310.8	4325.7	4319.9	4300.1	4282.6	4233.8	4186.3
31°	4286.0	4309.2	4320.8	4330.5	4355.0	4368.1	4365.5	4348.2	4325.6	4275.1	4227.7
32°	4329.7	4359.5	4366.2	4373.7	4398.4	4411.1	4408.2	4391.8	4366.8	4315.7	4271.8
33°	4373.0	4411.5	4411.0	4416.6	4441.5	4451.9	4450.9	4435.8	4406.1	4357.5	4315.3
34°	4418.4	4462.4	4454.7	4460.9	4484.3	4491.4	4491.1	4479.9	4445.7	4398.0	4358.8
35°	4462.7	4516.0	4498.7	4505.4	4526.9	4530.6	4531.1	4524.8	4482.0	4438.8	4401.6
36°	4508.3	4570.1	4543.4	4549.8	4568.6	4570.7	4568.0	4569.8	4516.2	4478.0	4443.5
37°	4553.0	4623.4	4586.7	4595.2	4610.4	4612.1	4605.3	4619.1	4553.9	4518.4	4486.4
38°	4595.7	4677.6	4628.1	4639.7	4654.8	4653.7	4644.7	4671.7	4593.3	4558.2	4530.3
39°	4638.4	4734.2	4671.2	4683.6	4703.0	4697.4	4684.3	4726.5	4633.7	4602.2	4573.3
40°	4685.1	4792.4	4718.0	4730.5	4751.9	4741.6	4728.1	4783.3	4677.3	4647.7	4616.7
41°	4734.4	4848.9	4769.8	4778.6	4801.7	4788.9	4772.6	4843.5	4726.6	4695.7	4663.7
42°	4784.8	4904.9	4822.8	4829.3	4854.8	4837.7	4823.4	4903.8	4779.9	4743.9	4715.1
43°	4835.6	4959.9	4877.4	4882.8	4909.3	4887.8	4881.4	4961.9	4838.5	4795.4	4767.9
44°	4891.5	5013.0	4934.2	4937.6	4965.1	4940.8	4940.3	5013.7	4897.4	4848.3	4823.4



REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4949.4	5065.6	4993.3	4994.4	5023.0	4997.4	5001.0	5061.3	4956.3	4907.0	4881.7
46°	5013.0	5119.3	5056.4	5054.4	5079.2	5057.4	5058.6	5109.3	5015.3	4968.7	4942.4
47°	5079.1	5171.9	5124.6	5116.8	5139.2	5120.7	5120.6	5155.7	5076.4	5033.2	5004.5
48°	5150.7	5218.9	5193.0	5179.5	5198.9	5186.0	5184.8	5197.7	5139.3	5096.7	5068.3
49°	5222.5	5267.0	5264.1	5243.1	5262.3	5251.9	5249.8	5236.0	5204.2	5160.1	5134.2
50°	5293.6	5316.6	5335.5	5311.3	5328.2	5319.0	5315.9	5273.7	5269.4	5223.7	5203.2
51°	5365.1	5368.6	5406.7	5379.0	5395.3	5382.7	5378.8	5311.5	5334.4	5289.7	5275.5
52°	5437.6	5418.8	5478.9	5452.4	5467.1	5448.1	5441.2	5350.2	5393.4	5357.0	5349.3
53°	5510.6	5466.9	5551.2	5525.1	5539.8	5514.1	5498.6	5387.3	5450.7	5423.9	5426.5
54°	5580.6	5513.7	5618.6	5600.7	5615.3	5581.8	5552.0	5425.1	5506.5	5492.3	5507.3
55°	5644.9	5560.8	5680.2	5676.8	5693.1	5646.6	5600.2	5460.3	5557.4	5555.7	5590.4
56°	5698.1	5604.7	5733.4	5752.4	5773.1	5711.5	5643.8	5493.9	5603.0	5622.6	5676.3
57°	5742.9	5647.7	5782.0	5830.2	5858.1	5774.2	5685.2	5525.4	5641.6	5689.7	5763.6
58°	5783.2	5688.6	5824.6	5898.4	5942.1	5835.8	5721.0	5554.9	5676.3	5751.3	5850.3
59°	5820.6	5727.2	5863.2	5960.0	6027.1	5896.2	5752.4	5575.8	5706.5	5813.4	5937.6
60°	5854.8	5761.3	5895.1	6023.2	6116.1	5952.7	5776.4	5590.8	5730.6	5880.0	6028.2
61°	5881.6	5792.1	5919.7	6090.9	6200.6	6008.1	5794.9	5606.9	5747.9	5943.8	6121.1
62°	5901.2	5823.4	5941.0	6156.4	6284.0	6066.3	5806.1	5618.1	5763.0	6004.7	6214.6
63°	5923.6	5852.5	5963.3	6214.6	6362.3	6125.1	5814.5	5619.8	5774.2	6066.3	6308.0
64°	5944.3	5881.6	5989.1	6264.4	6439.5	6178.8	5817.3	5614.2	5779.2	6123.9	6398.7
65°	5963.3	5887.2	6005.9	6310.3	6509.5	6230.3	5811.1	5592.8	5773.1	6176.0	6482.1
66°	5970.6	5848.1	6000.3	6359.0	6572.1	6276.1	5791.0	5544.1	5754.6	6221.9	6560.4
67°	5952.7	5800.5	5974.0	6395.9	6625.3	6303.6	5743.4	5461.8	5704.8	6260.5	6635.4
68°	5919.7	5721.6	5936.5	6422.2	6661.1	6306.4	5674.6	5307.3	5623.1	6282.9	6704.2
69°	5846.9	5537.1	5852.5	6418.8	6681.3	6285.1	5560.0	5026.4	5483.6	6273.9	6754.6
70°	5701.5	5221.2	5685.2	6386.9	6681.8	6238.6	5367.2	4623.5	5246.4	6231.4	6787.0
71°	5448.8	4748.8	5403.0	6317.5	6655.0	6155.8	5066.7	4186.1	4909.5	6155.8	6793.7
72°	5043.1	4167.7	4965.4	6195.6	6585.6	6042.8	4678.6	3835.5	4516.9	6042.8	6765.8
73°	4493.7	3557.6	4425.5	6021.0	6444.0	5873.2	4287.4	3541.6	4149.9	5854.8	6682.9
74°	3872.7	2945.4	3816.8	5744.0	6220.2	5649.4	3925.7	3167.7	3787.8	5616.4	6525.1
75°	3214.8	2178.0	3126.6	5317.8	5940.4	5368.6	3509.8	2487.7	3353.3	5323.9	6282.9
76°	2469.5	1377.5	2362.2	4779.6	5555.4	5006.5	2890.8	1574.5	2687.6	4956.1	5923.6
77°	1757.4	578.3	1685.1	4133.3	4988.5	4512.8	2038.9	712.2	1811.8	4479.9	5367.4
78°	1045.2	239.6	1008.1	3324.9	4201.0	3838.8	1187.0	519.6	899.2	3834.0	4532.9
79°	345.1	153.5	332.5	2312.8	3249.7	2950.5	339.0	332.9	636.3	2927.3	3490.6
80°	180.3	130.9	180.0	1481.6	2309.3	2081.2	182.2	146.1	395.8	1793.1	2364.9
81°	150.9	108.3	150.0	650.8	1368.9	1211.9	154.3	126.3	155.2	798.2	1223.7
82°	121.5	92.2	119.9	266.8	448.8	356.8	134.8	110.6	128.5	570.2	421.6
83°	92.2	77.4	90.2	208.1	226.6	196.1	115.3	94.8	110.1	358.9	309.3
84°	74.7	64.0	72.8	149.3	183.9	160.0	95.8	78.9	91.3	147.6	198.4
85°	57.4	49.0	55.2	91.2	149.6	123.9	77.8	62.2	73.2	110.2	165.9
86°	41.4	33.1	39.2	65.3	115.2	87.7	61.0	46.6	56.5	84.8	131.0
87°	29.3	23.0	27.7	43.7	81.1	65.0	45.3	31.0	40.5	62.8	89.8
88°	17.2	12.8	16.3	30.4	55.3	44.5	31.3	15.4	24.6	50.6	45.4
89°	5.2	2.8	5.1	17.1	29.6	30.9	17.2	4.9	8.6	38.5	34.6



REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	3468.2	3468.2	3468.2
1°	3467.8	3466.6	3467.7
2°	3469.1	3467.4	3467.4
3°	3471.5	3469.6	3469.4
4°	3475.8	3473.2	3471.8
5°	3481.5	3477.3	3475.2
6°	3488.0	3482.8	3480.8
7°	3496.1	3490.1	3487.4
8°	3505.1	3498.2	3495.2
9°	3516.2	3508.6	3505.1
10°	3528.9	3521.2	3517.1
11°	3545.0	3535.3	3532.1
12°	3562.7	3552.4	3548.4
13°	3581.2	3570.3	3566.7
14°	3601.8	3590.8	3587.2
15°	3625.7	3614.1	3610.7
16°	3652.3	3639.3	3634.9
17°	3680.5	3665.7	3660.5
18°	3709.7	3692.6	3686.5
19°	3741.0	3721.3	3713.5
20°	3773.2	3750.7	3742.1
21°	3806.8	3781.6	3770.8
22°	3840.8	3813.4	3799.9
23°	3875.7	3847.9	3830.9
24°	3911.1	3883.6	3862.9
25°	3947.6	3921.2	3897.6
26°	3984.7	3959.8	3932.4
27°	4022.7	3998.9	3970.5
28°	4062.0	4038.5	4010.2
29°	4101.3	4078.8	4051.4
30°	4141.3	4120.1	4095.9
31°	4182.2	4162.3	4142.1
32°	4224.1	4202.4	4188.7
33°	4266.9	4245.0	4238.8
34°	4309.7	4288.4	4291.3
35°	4354.0	4331.9	4344.3
36°	4398.6	4373.5	4397.3
37°	4440.7	4413.8	4452.3
38°	4484.8	4453.0	4508.2
39°	4528.5	4492.6	4564.2
40°	4572.1	4535.2	4622.2
41°	4616.9	4583.5	4682.3
42°	4665.1	4635.4	4740.5
43°	4715.9	4690.7	4794.3
44°	4771.7	4748.9	4844.8



REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	4829.9	4809.1	4894.4
46°	4893.7	4871.0	4941.3
47°	4958.9	4938.5	4985.2
48°	5024.1	5007.3	5028.9
49°	5093.2	5080.2	5075.0
50°	5162.4	5156.3	5123.5
51°	5236.8	5234.2	5174.8
52°	5313.2	5315.6	5225.9
53°	5390.2	5394.2	5284.2
54°	5473.0	5475.4	5346.1
55°	5555.8	5554.1	5408.9
56°	5640.5	5631.5	5471.8
57°	5726.1	5705.9	5533.5
58°	5813.9	5772.5	5591.1
59°	5903.5	5832.4	5651.7
60°	5995.8	5890.0	5708.7
61°	6085.9	5948.2	5757.4
62°	6176.0	6004.7	5798.8
63°	6267.2	6050.1	5841.3
64°	6356.2	6084.8	5894.5
65°	6445.7	6127.3	5952.7
66°	6531.9	6185.5	5988.0
67°	6608.0	6224.1	5994.1
68°	6661.7	6228.6	5990.2
69°	6715.4	6197.2	5924.7
70°	6746.7	6121.7	5693.1
71°	6728.8	5935.4	5232.2
72°	6638.2	5565.3	4629.8
73°	6510.6	5044.0	4047.3
74°	6313.6	4461.7	3484.9
75°	5946.5	3810.4	2652.4
76°	5443.8	2985.0	1545.8
77°	4838.0	1924.2	608.2
78°	4062.1	905.1	443.7
79°	2969.4	641.8	294.8
80°	1645.0	402.0	145.8
81°	731.0	162.3	129.4
82°	526.6	133.5	114.4
83°	337.6	114.3	99.8
84°	148.5	95.6	84.8
85°	113.4	76.7	69.2
86°	88.1	59.1	51.2
87°	64.8	43.1	34.8
88°	52.1	27.2	18.5
89°	39.6	11.3	7.6



REPORT NUMBER: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1436804

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)