

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: P1436781

Luminaire Tested: XAS300-SFPM (3000K-180W-T5)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436781
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-T5)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 5
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

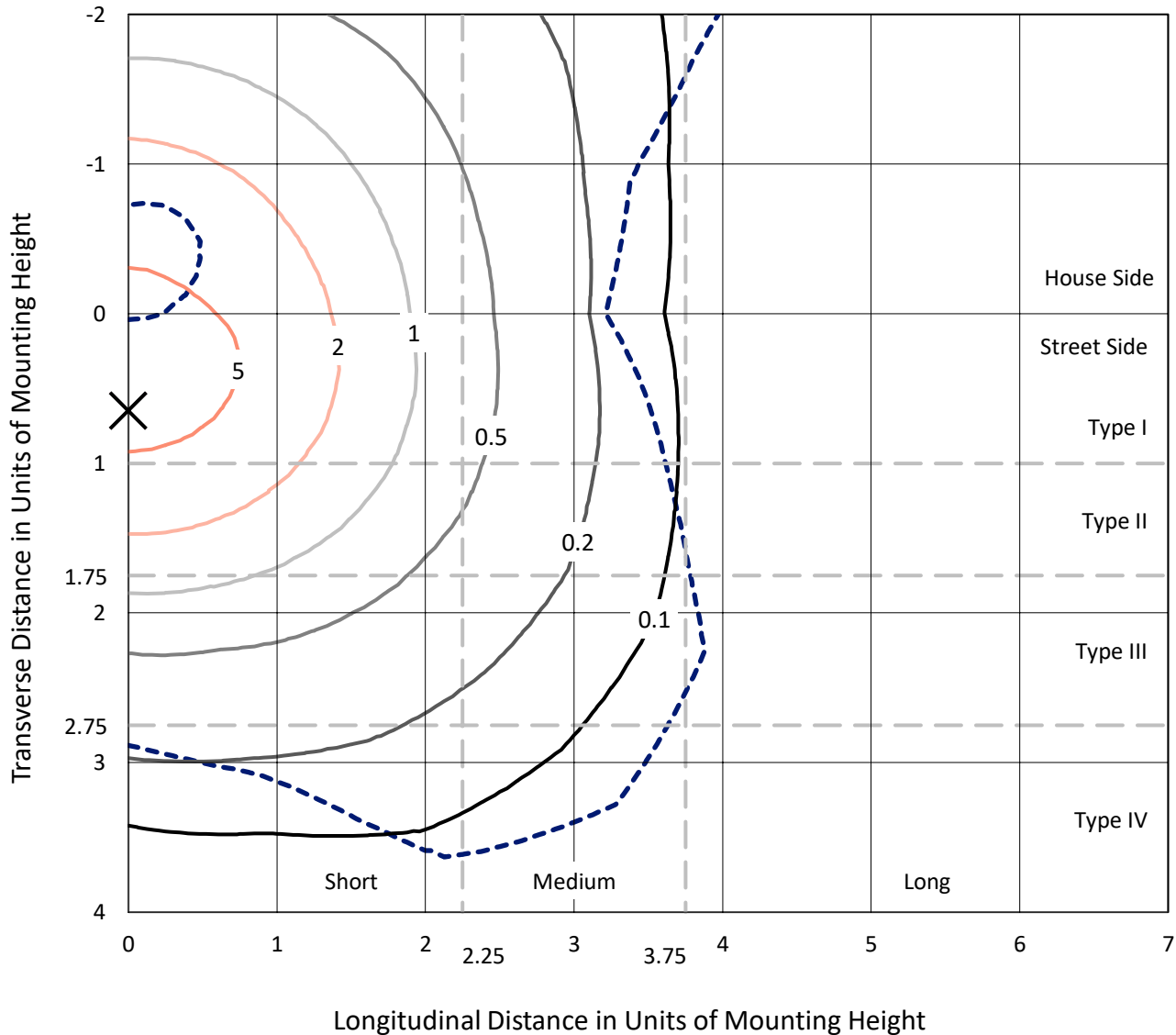
Lumens per Lamp: 46561 (1 lamp)
Luminaire Lumens: 28121.4 lumens
Efficiency: 60.4%
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 187.1
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

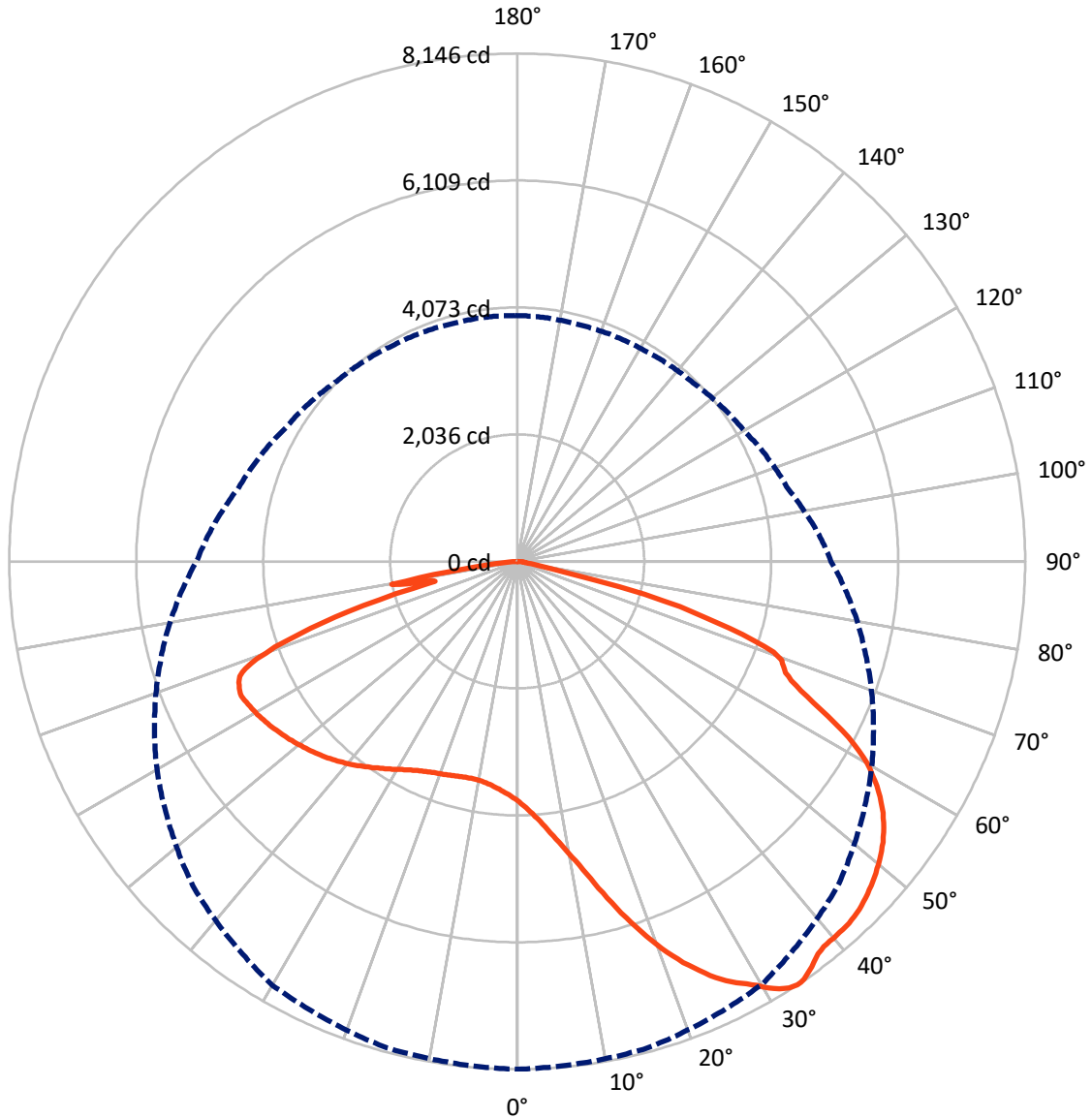
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 33-Deg Vertical

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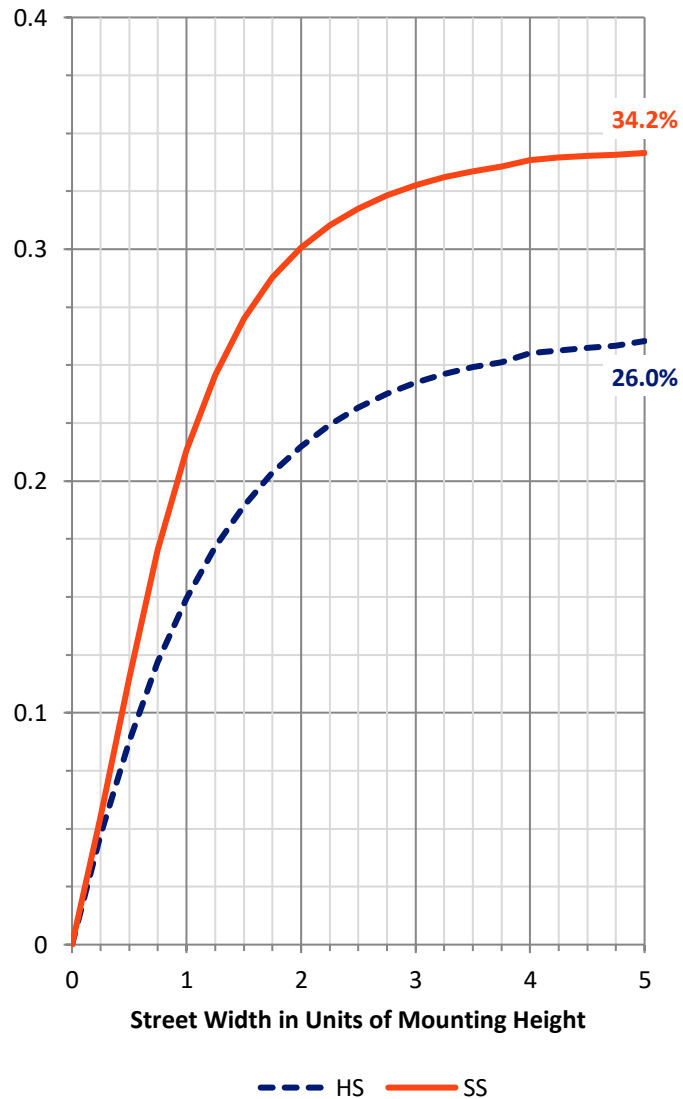
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12237.6	0.0	12237.6
	% Lamp	26.3	0.0	26.3
Street Side	Lumens	15883.9	0.0	15883.9
	% Lamp	34.1	0.0	34.1
Total	Lumens	28121.4	0.0	28121.4
	% Lamp	60.4	0.0	60.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	379.9	1.4	0.8
10°-20°	1256.7	4.5	2.7
20°-30°	2373.1	8.4	5.1
30°-40°	3576.3	12.7	7.7
40°-50°	4622.8	16.4	9.9
50°-60°	5536.7	19.7	11.9
60°-70°	5881.5	20.9	12.6
70°-80°	4030.2	14.3	8.7
80°-90°	464.2	1.7	1.0
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°	28121.4	100.0	60.4
0°-180°	28121.4	100.0	60.4

Coefficient of Utilization



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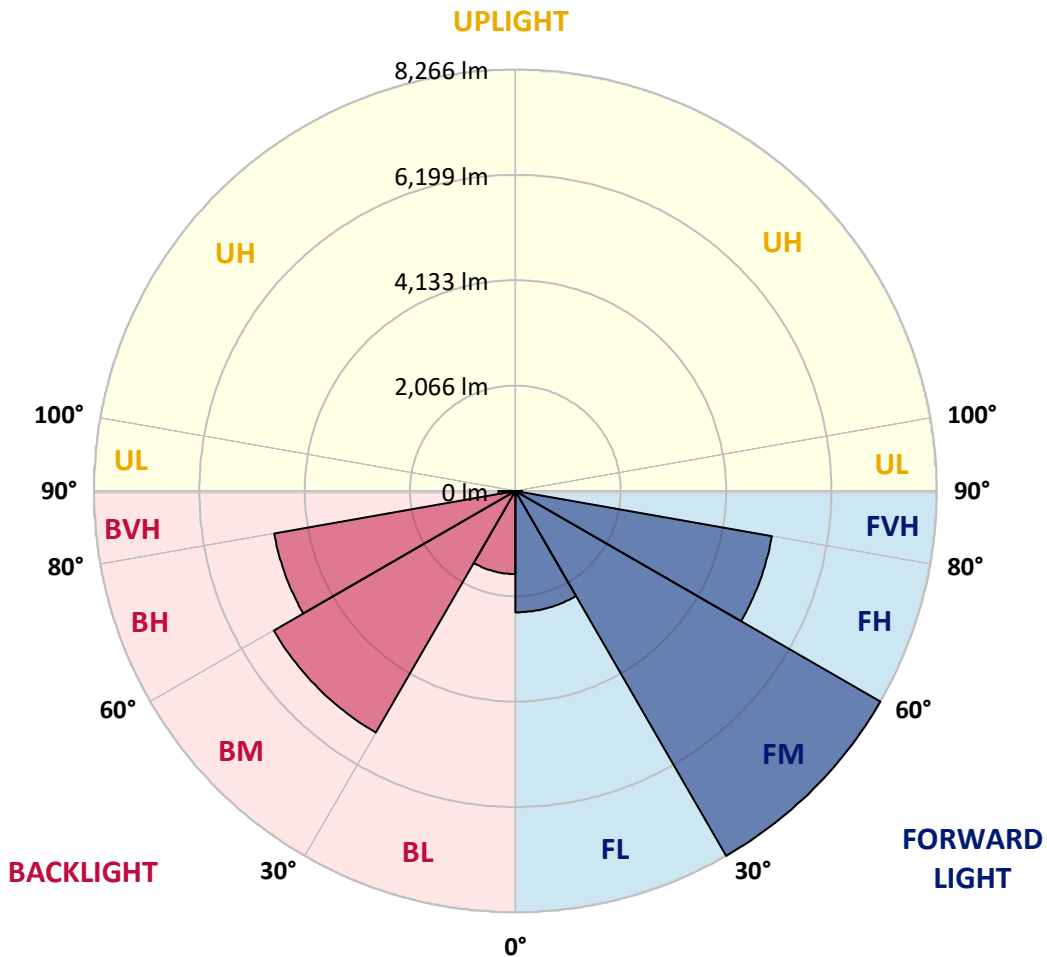
CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.9	5.1			
FM (30°-60°)	8265.5	17.8			
FH (60°-80°)	5109.7	11.0			G3/7500
FVH (80°-90°)	128.7	0.3			G2/225
BL (0°-30°)	1629.8	3.5	B3/2500		
BM (30°-60°)	5470.2	11.7	B4/8500		
BH (60°-80°)	4802.0	10.3	B4/5000		G4/5000
BVH (80°-90°)	335.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	18439.6	39.6			

BUG Rating: B4-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8
1°	3917.8	3916.5	3912.5	3906.6	3895.8	3882.4	3855.4	3841.4	3829.4	3819.3	3812.7
2°	3982.8	3978.6	3967.9	3950.8	3926.1	3898.7	3857.2	3829.8	3805.1	3785.7	3772.6
3°	4056.3	4049.0	4030.1	3999.0	3960.7	3918.0	3862.3	3821.1	3785.1	3757.6	3738.7
4°	4138.7	4127.6	4099.2	4055.2	4000.2	3941.4	3869.7	3815.2	3769.3	3733.8	3709.8
5°	4229.5	4214.2	4174.2	4116.4	4045.8	3969.1	3881.2	3813.6	3756.8	3714.7	3685.6
6°	4330.2	4311.0	4261.6	4184.5	4094.9	3998.5	3894.7	3814.0	3746.8	3698.1	3663.0
7°	4438.9	4416.2	4353.4	4259.5	4147.3	4030.4	3909.0	3815.6	3740.1	3683.4	3643.1
8°	4554.7	4528.1	4453.3	4340.6	4203.9	4065.4	3926.2	3820.2	3735.7	3671.0	3627.0
9°	4682.9	4653.0	4563.0	4427.5	4266.0	4103.9	3946.0	3825.9	3731.9	3661.4	3613.8
10°	4821.4	4782.2	4677.7	4521.1	4333.0	4145.0	3968.6	3833.2	3728.8	3655.6	3604.4
11°	4971.3	4926.9	4804.0	4620.1	4403.6	4189.6	3992.4	3842.8	3727.9	3651.2	3598.5
12°	5132.5	5078.2	4936.4	4727.0	4479.2	4237.8	4018.8	3855.6	3730.2	3649.4	3595.8
13°	5306.5	5242.8	5080.1	4839.1	4558.6	4288.7	4050.0	3870.2	3735.4	3649.6	3596.4
14°	5490.0	5418.8	5229.1	4959.1	4645.3	4344.4	4084.8	3887.5	3742.1	3652.5	3600.0
15°	5680.9	5600.1	5384.4	5085.0	4734.8	4402.0	4120.8	3906.7	3750.8	3657.7	3605.6
16°	5877.4	5783.6	5545.2	5214.4	4830.3	4464.0	4159.7	3930.0	3761.9	3664.5	3613.4
17°	6071.1	5969.5	5709.4	5344.7	4928.7	4530.0	4202.1	3954.5	3776.5	3674.5	3623.8
18°	6262.6	6153.8	5872.9	5480.7	5029.6	4599.5	4247.2	3981.7	3792.4	3687.2	3636.2
19°	6449.2	6335.0	6037.0	5614.0	5131.6	4670.3	4292.2	4010.7	3811.2	3700.5	3649.7
20°	6631.0	6507.8	6194.3	5747.0	5236.1	4741.7	4339.3	4041.9	3831.4	3717.4	3665.6
21°	6801.3	6676.3	6350.1	5880.0	5342.4	4817.3	4388.4	4074.6	3853.6	3735.1	3680.8
22°	6962.6	6835.7	6496.3	6009.9	5447.6	4895.5	4438.0	4107.4	3877.9	3754.8	3698.3
23°	7111.7	6990.3	6640.6	6138.7	5555.7	4974.6	4487.6	4140.2	3903.0	3775.8	3716.6
24°	7256.1	7135.3	6779.0	6262.0	5658.4	5052.9	4535.6	4173.3	3929.2	3796.8	3736.2
25°	7393.8	7276.6	6915.5	6384.0	5761.9	5129.2	4584.3	4205.7	3956.0	3819.4	3756.1
26°	7510.4	7402.3	7047.1	6503.5	5862.3	5207.9	4634.7	4239.3	3984.1	3842.3	3776.4
27°	7617.3	7516.4	7175.2	6618.3	5962.3	5288.2	4685.3	4272.1	4012.2	3865.3	3797.7
28°	7713.3	7617.3	7292.9	6733.1	6061.4	5368.3	4738.1	4305.4	4040.9	3889.9	3819.1
29°	7816.0	7716.9	7404.7	6845.4	6156.9	5450.8	4793.8	4341.3	4071.0	3913.5	3843.1
30°	7938.0	7833.5	7514.0	6958.3	6252.3	5536.3	4852.1	4379.3	4101.6	3939.2	3867.3
31°	8040.0	7942.8	7634.2	7073.7	6352.0	5620.3	4911.6	4417.7	4133.1	3965.5	3893.4
32°	8116.1	8028.6	7745.3	7189.1	6454.6	5702.7	4974.1	4456.4	4165.2	3993.4	3919.8
33°	8145.7	8078.7	7837.7	7300.8	6565.8	5785.0	5035.1	4495.3	4197.2	4021.7	3945.9
34°	8128.8	8075.7	7899.9	7401.7	6673.9	5877.1	5098.9	4535.1	4226.8	4048.9	3971.9
35°	8070.8	8029.8	7911.4	7480.8	6768.1	5974.8	5165.0	4576.3	4257.0	4078.1	4000.8
36°	7994.1	7962.7	7883.0	7532.7	6852.6	6069.9	5233.8	4618.9	4287.8	4108.4	4031.7
37°	7929.5	7885.4	7834.7	7544.2	6916.1	6152.0	5301.7	4659.9	4321.2	4139.9	4067.0
38°	7899.3	7835.3	7784.6	7530.3	6965.0	6222.7	5372.7	4698.4	4354.8	4175.1	4103.7
39°	7888.5	7809.9	7748.3	7511.6	6987.9	6281.9	5445.3	4739.8	4389.4	4213.2	4142.1
40°	7884.8	7797.3	7730.8	7501.9	6995.2	6326.0	5511.1	4784.3	4425.6	4255.7	4182.2
41°	7881.8	7788.8	7725.4	7501.9	7006.1	6357.4	5567.0	4833.1	4463.8	4296.4	4221.7
42°	7872.7	7782.2	7724.8	7513.4	7027.2	6385.8	5612.7	4878.7	4505.1	4341.2	4262.7
43°	7855.2	7772.5	7724.2	7533.3	7053.2	6419.6	5650.0	4920.3	4549.2	4386.6	4301.6
44°	7827.4	7760.4	7721.8	7556.3	7084.6	6463.1	5686.9	4960.6	4596.0	4435.4	4340.2

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CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7790.6	7739.9	7716.3	7577.4	7120.2	6511.4	5726.8	5003.0	4642.6	4483.8	4377.6
46°	7745.3	7713.3	7707.3	7594.9	7160.1	6559.7	5770.2	5048.0	4691.5	4531.8	4414.2
47°	7696.4	7684.9	7696.4	7607.6	7200.5	6609.8	5811.8	5097.8	4739.8	4578.6	4452.5
48°	7644.4	7652.9	7681.9	7616.7	7239.8	6660.6	5854.6	5150.5	4788.6	4625.4	4490.0
49°	7590.7	7619.7	7661.4	7622.7	7279.0	6709.5	5895.0	5203.4	4839.6	4671.3	4531.2
50°	7532.7	7585.3	7636.6	7625.1	7315.3	6758.4	5933.0	5258.7	4890.4	4716.7	4572.7
51°	7466.9	7545.4	7607.0	7624.5	7348.5	6803.7	5967.5	5313.8	4940.6	4763.0	4618.1
52°	7393.2	7496.5	7573.2	7620.3	7382.3	6849.0	5998.8	5368.7	4990.7	4810.5	4666.2
53°	7311.7	7441.5	7536.9	7615.5	7410.7	6888.9	6026.8	5421.4	5043.3	4860.0	4717.1
54°	7219.9	7370.8	7497.7	7605.2	7434.9	6925.7	6055.4	5470.9	5098.3	4912.3	4770.9
55°	7117.8	7288.1	7454.2	7591.3	7456.0	6958.3	6081.4	5517.5	5153.4	4966.5	4826.4
56°	7001.8	7192.7	7400.4	7570.2	7472.9	6986.7	6106.1	5562.3	5209.5	5024.5	4881.2
57°	6870.8	7082.8	7335.8	7542.4	7483.8	7010.9	6127.9	5605.4	5267.5	5087.0	4935.8
58°	6725.2	6955.9	7256.7	7509.2	7488.0	7029.6	6144.2	5644.6	5328.1	5153.1	4988.2
59°	6570.0	6811.6	7169.1	7471.7	7484.4	7040.5	6156.3	5680.2	5385.8	5220.4	5036.8
60°	6384.0	6650.3	7067.7	7427.0	7471.7	7042.9	6162.3	5712.2	5443.9	5291.0	5083.0
61°	6153.2	6462.5	6954.7	7371.5	7448.2	7031.4	6159.9	5737.0	5504.0	5364.3	5134.7
62°	5878.7	6237.2	6827.9	7305.0	7420.4	7006.1	6149.0	5756.0	5565.4	5439.4	5187.0
63°	5570.5	5977.1	6682.9	7225.3	7381.1	6975.2	6135.1	5770.9	5626.2	5515.0	5239.0
64°	5265.5	5701.9	6521.1	7133.5	7327.4	6930.6	6112.8	5775.8	5684.3	5592.9	5288.1
65°	5000.7	5444.4	6345.9	7026.0	7264.5	6873.2	6077.7	5774.4	5740.2	5668.4	5335.7
66°	4790.6	5208.5	6157.5	6904.0	7187.8	6807.3	6024.0	5767.5	5787.5	5743.4	5384.4
67°	4656.1	5010.8	5973.1	6760.8	7086.4	6713.7	5944.8	5738.9	5830.8	5811.3	5428.2
68°	4587.2	4865.9	5796.7	6598.4	6966.2	6586.9	5818.1	5685.5	5867.4	5877.4	5468.0
69°	4527.3	4764.2	5633.6	6418.4	6815.2	6422.0	5618.2	5585.5	5891.7	5934.6	5489.4
70°	4358.0	4674.9	5482.1	6223.9	6631.6	6190.1	5309.2	5412.1	5889.7	5985.2	5501.7
71°	4021.8	4517.5	5349.4	6025.1	6416.0	5876.0	4865.2	5154.2	5849.9	6020.0	5502.3
72°	3573.4	4245.5	5219.5	5822.3	6165.3	5487.4	4379.7	4817.1	5762.1	6035.5	5466.2
73°	3124.6	3863.8	5071.2	5625.6	5874.5	5033.8	3928.7	4436.9	5609.4	6010.3	5397.9
74°	2709.2	3439.1	4888.0	5421.3	5537.0	4562.1	3517.5	4075.3	5409.5	5934.4	5283.6
75°	2105.3	2972.1	4650.5	5174.4	5164.3	4066.0	3037.1	3728.3	5167.1	5792.5	5072.5
76°	1287.6	2393.5	4316.6	4895.2	4755.7	3528.2	2322.4	3286.8	4919.6	5565.5	4784.8
77°	569.9	1581.1	3887.7	4501.8	4296.0	2828.9	1507.6	2608.8	4643.1	5193.5	4464.2
78°	428.3	765.2	3340.9	3973.7	3741.0	1943.5	698.1	1854.2	4295.8	4645.3	4060.8
79°	296.6	558.6	2639.6	3311.0	3079.5	1072.4	283.5	1099.5	3731.5	3916.6	3513.6
80°	164.9	364.0	1703.7	2504.5	2294.5	490.5	188.7	353.4	2852.8	3118.4	2951.8
81°	143.8	169.5	862.9	1643.1	1399.2	337.4	163.1	213.8	2020.5	2406.9	2483.3
82°	126.6	145.2	630.7	803.3	648.1	193.6	143.5	174.6	1188.3	1815.4	2186.1
83°	109.8	125.4	406.5	595.4	467.8	159.3	123.9	148.1	372.2	1449.0	2037.2
84°	92.9	105.9	182.4	394.0	304.6	133.3	104.3	121.7	244.9	1082.8	1543.4
85°	75.6	86.5	135.3	192.7	141.4	108.3	86.0	95.2	197.2	717.9	1049.8
86°	56.7	68.4	99.1	157.2	108.1	83.3	67.7	74.6	158.4	441.9	566.3
87°	41.1	51.4	74.0	120.4	81.8	60.9	48.8	56.0	119.6	307.4	395.4
88°	25.5	34.5	51.2	78.9	58.6	42.5	31.2	39.6	81.2	172.9	224.4
89°	10.0	17.6	28.3	42.0	32.8	24.2	21.8	27.5	55.4	38.6	57.0



REPORT NUMBER: P1436781

CATALOG NUMBER: XAS300-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: P1436781

CATALOG NUMBER: XAS300-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: P1436781

CATALOG NUMBER: XAS300-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: P1436781

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8	3861.8
1°	3809.8	3810.0	3815.0	3822.6	3834.4	3847.2	3860.8	3861.3	3874.8	3887.5	3899.7
2°	3766.0	3765.6	3772.5	3785.9	3804.8	3828.7	3854.7	3869.0	3896.6	3922.8	3946.5
3°	3728.9	3726.7	3735.7	3753.1	3778.6	3812.4	3850.5	3878.6	3921.3	3962.3	3999.4
4°	3696.8	3694.8	3704.6	3725.1	3757.2	3799.2	3848.7	3890.3	3948.0	4005.6	4059.0
5°	3669.0	3665.6	3677.8	3701.8	3738.9	3788.4	3848.6	3903.6	3976.6	4051.2	4123.1
6°	3642.6	3639.3	3652.6	3680.3	3722.9	3779.9	3851.5	3919.9	4008.3	4102.0	4192.3
7°	3620.1	3615.7	3630.3	3661.7	3708.1	3772.9	3854.8	3937.5	4043.2	4156.6	4266.6
8°	3600.9	3595.7	3611.9	3646.6	3696.4	3767.2	3859.6	3956.4	4080.3	4215.3	4346.2
9°	3586.1	3579.8	3597.3	3632.9	3688.1	3763.3	3866.5	3977.4	4120.8	4277.9	4432.3
10°	3574.2	3568.2	3585.4	3622.9	3681.3	3761.8	3877.1	4003.1	4164.4	4345.6	4525.8
11°	3567.1	3560.8	3578.0	3617.1	3676.8	3764.4	3890.2	4032.3	4213.4	4418.8	4625.7
12°	3564.9	3557.6	3574.4	3613.9	3676.5	3769.2	3906.3	4064.5	4266.3	4496.9	4732.3
13°	3565.8	3557.5	3575.1	3614.4	3678.9	3777.5	3925.1	4098.6	4322.9	4580.4	4849.6
14°	3568.3	3560.6	3578.0	3618.7	3683.2	3787.4	3945.9	4133.9	4381.1	4670.2	4971.0
15°	3574.3	3565.7	3582.9	3624.7	3690.8	3800.1	3968.6	4173.9	4443.3	4763.4	5099.8
16°	3582.3	3573.6	3590.7	3632.9	3702.5	3815.2	3993.6	4216.7	4508.4	4863.1	5233.3
17°	3591.6	3583.3	3601.4	3643.8	3715.6	3833.0	4020.8	4261.2	4577.9	4964.9	5369.4
18°	3603.5	3594.2	3614.0	3657.9	3729.9	3852.2	4050.8	4308.8	4648.3	5071.1	5510.8
19°	3616.8	3605.5	3627.9	3673.9	3746.7	3873.3	4081.8	4356.5	4721.5	5178.5	5647.4
20°	3629.9	3617.4	3642.6	3691.6	3765.3	3897.0	4115.9	4406.0	4797.6	5287.3	5786.5
21°	3642.4	3629.4	3658.7	3711.2	3786.3	3922.7	4151.0	4457.0	4877.1	5398.5	5921.1
22°	3656.1	3641.8	3675.1	3730.8	3808.2	3950.0	4187.1	4507.2	4955.7	5507.8	6053.0
23°	3671.0	3656.8	3692.1	3752.3	3831.0	3978.3	4223.3	4557.7	5037.0	5618.6	6181.6
24°	3688.6	3674.4	3710.5	3774.8	3853.5	4008.4	4260.7	4607.7	5117.3	5726.8	6305.4
25°	3707.5	3693.9	3731.5	3799.0	3876.5	4039.4	4296.8	4659.6	5198.9	5833.7	6425.6
26°	3728.4	3716.7	3754.7	3822.8	3900.1	4069.6	4334.0	4710.4	5281.4	5935.8	6543.4
27°	3752.2	3742.5	3779.8	3846.0	3924.4	4100.5	4371.1	4764.2	5363.7	6038.7	6663.6
28°	3777.8	3770.8	3807.7	3869.3	3950.4	4132.1	4409.6	4821.1	5448.4	6138.7	6786.2
29°	3805.9	3801.4	3836.7	3894.3	3976.8	4162.9	4449.9	4880.2	5535.9	6240.8	6904.0
30°	3834.9	3835.1	3865.8	3918.9	4004.4	4194.2	4491.6	4942.4	5624.4	6347.1	7020.5
31°	3863.7	3868.5	3894.7	3944.3	4032.9	4225.0	4533.8	5007.7	5717.4	6458.2	7145.6
32°	3893.2	3905.6	3924.3	3969.9	4061.2	4256.2	4574.5	5072.4	5811.9	6567.0	7254.3
33°	3923.5	3942.9	3954.2	3996.3	4089.8	4286.4	4615.8	5142.0	5910.2	6672.1	7358.8
34°	3954.4	3979.1	3983.8	4022.6	4117.6	4314.7	4658.1	5211.6	6002.5	6769.9	7443.3
35°	3985.5	4017.5	4014.6	4051.2	4146.1	4344.0	4701.3	5281.2	6089.2	6856.3	7502.5
36°	4017.2	4057.5	4045.9	4082.2	4174.9	4375.0	4743.3	5347.5	6172.0	6923.9	7527.9
37°	4049.9	4096.1	4076.1	4117.5	4207.2	4406.6	4782.3	5417.1	6242.6	6964.4	7530.3
38°	4080.1	4134.1	4105.1	4154.9	4244.5	4439.8	4821.5	5482.1	6296.4	6983.7	7515.8
39°	4109.5	4174.5	4133.9	4194.9	4284.4	4474.9	4857.3	5540.1	6335.0	6995.8	7500.7
40°	4140.8	4214.9	4164.2	4235.0	4326.3	4510.1	4895.8	5591.3	6362.2	7008.5	7497.1
41°	4172.6	4251.9	4197.0	4275.3	4370.9	4548.0	4932.8	5637.9	6387.6	7027.2	7508.6
42°	4205.1	4289.4	4231.6	4314.8	4418.2	4587.6	4973.5	5681.3	6422.0	7052.0	7532.1
43°	4238.5	4325.1	4267.0	4353.4	4466.1	4628.9	5019.8	5725.4	6468.5	7082.2	7559.3
44°	4272.5	4360.4	4304.2	4392.4	4512.6	4675.9	5068.8	5768.3	6519.9	7120.2	7584.7



REPORT NUMBER: P1436781

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4308.2	4395.3	4341.3	4431.0	4559.2	4725.0	5117.8	5809.5	6568.8	7163.7	7606.4
46°	4345.4	4428.8	4381.2	4470.1	4604.7	4776.9	5165.2	5851.1	6616.5	7210.8	7624.5
47°	4386.2	4464.1	4422.8	4508.7	4650.4	4831.7	5216.5	5894.0	6664.2	7257.3	7637.2
48°	4430.9	4494.3	4467.1	4547.4	4694.7	4888.7	5273.5	5931.6	6715.5	7299.6	7645.7
49°	4478.1	4524.9	4513.4	4588.5	4739.8	4943.8	5330.4	5966.0	6766.9	7338.2	7652.3
50°	4524.5	4555.2	4562.2	4632.4	4785.7	4997.6	5387.2	5996.8	6814.0	7372.1	7655.3
51°	4572.5	4588.0	4610.3	4678.7	4832.2	5048.6	5443.2	6025.5	6858.7	7402.9	7655.3
52°	4621.5	4618.7	4660.5	4728.3	4881.4	5099.4	5496.9	6055.4	6898.5	7430.6	7652.9
53°	4670.7	4647.5	4709.9	4780.4	4931.8	5152.0	5546.1	6082.0	6934.2	7455.4	7648.7
54°	4719.5	4675.3	4757.3	4833.9	4985.2	5205.9	5590.9	6107.3	6964.4	7475.9	7639.6
55°	4763.6	4704.0	4799.6	4890.3	5042.8	5262.2	5631.8	6127.9	6989.1	7489.8	7626.3
56°	4801.8	4732.0	4837.1	4946.5	5103.7	5319.9	5669.3	6146.6	7007.3	7501.3	7605.2
57°	4833.7	4759.6	4872.2	5003.8	5168.4	5376.4	5703.3	6163.5	7015.7	7505.5	7577.4
58°	4864.7	4786.3	4903.6	5054.8	5237.3	5432.8	5734.3	6174.4	7020.5	7499.5	7536.3
59°	4894.0	4812.6	4932.8	5102.0	5308.1	5488.9	5760.4	6177.4	7017.5	7486.2	7491.6
60°	4921.4	4835.4	4958.0	5150.4	5381.0	5543.2	5779.8	6173.8	7002.4	7467.5	7437.9
61°	4944.0	4856.5	4979.2	5203.6	5455.1	5597.1	5792.4	6169.6	6977.7	7441.5	7381.7
62°	4962.2	4878.5	4998.9	5257.1	5530.9	5653.5	5798.3	6160.5	6945.0	7402.3	7315.3
63°	4983.4	4899.0	5020.1	5303.8	5604.2	5708.8	5800.5	6138.7	6901.6	7350.9	7234.4
64°	5002.6	4920.0	5042.7	5346.9	5680.6	5760.9	5795.0	6105.5	6846.0	7286.3	7132.9
65°	5020.3	4923.9	5058.2	5390.9	5754.9	5810.5	5780.1	6048.8	6769.3	7206.0	7011.5
66°	5030.1	4898.1	5057.2	5436.9	5823.5	5854.8	5746.4	5959.1	6666.0	7106.3	6870.2
67°	5025.1	4869.1	5044.6	5475.0	5889.3	5881.8	5685.2	5838.5	6528.9	6991.6	6716.1
68°	5010.5	4818.0	5026.1	5506.0	5945.5	5885.3	5589.3	5642.3	6353.2	6848.4	6547.6
69°	4966.1	4685.1	4973.4	5522.2	5992.2	5866.5	5438.8	5334.4	6129.1	6674.5	6367.7
70°	4867.9	4460.1	4858.3	5523.4	6026.1	5821.7	5195.6	4900.1	5821.8	6467.3	6168.9
71°	4693.1	4118.3	4662.2	5503.0	6042.7	5735.4	4852.7	4397.0	5416.5	6215.5	5959.6
72°	4409.8	3698.7	4356.3	5453.1	6027.7	5609.9	4476.3	3947.9	4960.6	5936.2	5748.6
73°	4017.0	3268.0	3979.0	5373.4	5951.8	5420.6	4125.7	3543.7	4472.0	5593.7	5528.3
74°	3589.2	2836.7	3549.5	5221.0	5806.1	5195.6	3790.2	3083.0	3992.3	5196.3	5290.5
75°	3144.5	2296.8	3088.8	4978.0	5597.6	4959.9	3327.5	2371.6	3452.0	4752.6	5005.9
76°	2668.7	1729.1	2607.4	4689.6	5280.5	4706.0	2640.7	1479.3	2769.2	4285.6	4668.9
77°	2131.9	1353.7	2103.7	4353.1	4799.1	4365.3	1868.9	691.7	1912.0	3749.3	4199.7
78°	1779.7	1419.6	1805.4	3920.1	4143.5	3825.8	1097.1	505.3	1038.8	3101.4	3545.2
79°	1840.7	1790.3	1941.5	3357.4	3418.7	3004.6	327.1	337.7	461.8	2352.8	2775.2
80°	2212.2	2043.5	2300.9	2776.5	2707.2	2122.7	213.3	170.1	328.2	1483.1	1921.8
81°	2340.9	1584.8	2294.8	2265.2	2103.1	1240.8	175.4	146.1	195.7	706.6	1063.3
82°	1770.4	1126.1	1722.3	2054.5	1673.8	376.1	150.5	127.3	162.0	515.9	767.2
83°	1199.9	669.2	1149.7	1619.2	1244.5	252.5	125.6	109.0	137.1	334.7	486.5
84°	632.0	357.1	580.0	1184.0	817.1	207.1	100.8	90.5	113.8	153.4	205.9
85°	334.0	215.3	323.1	748.9	475.7	168.6	80.3	71.2	88.7	114.7	173.3
86°	267.5	75.4	258.8	416.6	335.0	130.0	61.9	53.4	66.5	87.6	139.6
87°	201.0	50.8	194.6	333.5	194.2	91.6	44.8	35.8	47.7	64.1	99.1
88°	134.6	26.3	130.3	250.4	54.7	69.5	30.9	18.1	29.0	40.9	54.1
89°	68.1	2.3	66.0	167.3	28.9	47.4	17.0	6.0	10.3	31.1	40.8



REPORT NUMBER: P1436781

CATALOG NUMBER: XAS300-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: P1436781

CATALOG NUMBER: XAS300-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: P1436781

CATALOG NUMBER: XAS300-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: P1436781

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3861.8	3861.8	3861.8
1°	3907.9	3915.1	3917.8
2°	3965.8	3978.9	3982.8
3°	4030.8	4050.3	4056.3
4°	4102.3	4129.8	4138.7
5°	4180.1	4217.6	4229.5
6°	4265.8	4314.2	4330.2
7°	4358.5	4419.0	4438.9
8°	4457.3	4530.7	4554.7
9°	4564.9	4653.2	4682.9
10°	4681.0	4787.5	4821.4
11°	4806.1	4930.9	4971.3
12°	4939.4	5083.3	5132.5
13°	5084.5	5248.7	5306.5
14°	5233.3	5422.1	5490.0
15°	5389.5	5602.8	5680.9
16°	5554.7	5791.2	5877.4
17°	5725.5	5978.7	6071.1
18°	5894.6	6168.9	6262.6
19°	6058.4	6348.9	6449.2
20°	6218.5	6522.3	6631.0
21°	6373.7	6685.9	6801.3
22°	6521.7	6843.0	6962.6
23°	6663.0	6998.2	7111.7
24°	6801.3	7147.4	7256.1
25°	6939.0	7291.1	7393.8
26°	7075.5	7422.2	7510.4
27°	7207.8	7537.5	7617.3
28°	7326.2	7637.8	7713.3
29°	7438.5	7741.7	7816.0
30°	7552.0	7855.8	7938.0
31°	7665.0	7961.5	8040.0
32°	7771.3	8038.8	8116.1
33°	7848.0	8076.9	8145.7
34°	7888.5	8069.6	8128.8
35°	7889.1	8021.9	8070.8
36°	7862.5	7948.8	7994.1
37°	7813.0	7877.6	7929.5
38°	7768.3	7830.5	7899.3
39°	7745.9	7809.9	7888.5
40°	7738.1	7799.7	7884.8
41°	7736.3	7794.8	7881.8
42°	7736.3	7789.4	7872.7
43°	7736.9	7782.8	7855.2
44°	7736.9	7771.3	7827.4



REPORT NUMBER: P1436781

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	7735.0	7751.3	7790.6
46°	7731.4	7724.8	7745.3
47°	7723.6	7695.2	7696.4
48°	7712.1	7663.2	7644.4
49°	7692.2	7630.0	7590.7
50°	7668.0	7597.9	7532.7
51°	7637.2	7560.5	7466.9
52°	7601.6	7514.0	7393.2
53°	7564.1	7458.4	7311.7
54°	7525.5	7387.2	7219.9
55°	7481.4	7303.8	7117.8
56°	7428.2	7207.8	7001.8
57°	7362.4	7096.0	6870.8
58°	7281.5	6967.4	6725.2
59°	7192.1	6821.2	6570.0
60°	7089.4	6661.8	6384.0
61°	6969.8	6480.0	6153.2
62°	6839.4	6262.0	5878.7
63°	6701.6	6007.5	5570.5
64°	6548.8	5729.9	5265.5
65°	6377.9	5471.0	5000.7
66°	6193.7	5248.1	4790.6
67°	6011.3	5058.5	4656.1
68°	5830.1	4915.2	4587.2
69°	5672.7	4803.6	4527.3
70°	5534.8	4705.0	4358.0
71°	5391.9	4546.7	4021.8
72°	5229.0	4266.6	3573.4
73°	5074.4	3878.7	3124.6
74°	4877.7	3433.1	2709.2
75°	4585.2	2949.7	2105.3
76°	4198.3	2360.9	1287.6
77°	3751.1	1580.2	569.9
78°	3179.5	793.9	428.3
79°	2388.2	573.4	296.6
80°	1387.0	374.0	164.9
81°	663.3	174.6	143.8
82°	494.7	144.9	126.6
83°	330.4	126.4	109.8
84°	166.1	106.0	92.9
85°	121.2	85.1	75.6
86°	91.1	66.1	56.7
87°	66.8	48.9	41.1
88°	53.6	31.7	25.5
89°	40.8	14.5	10.0



REPORT NUMBER: P1436781

CATALOG NUMBER: XAS300-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: P1436781

CATALOG NUMBER: XAS300-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: P1436781
CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)