

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: P1436828

Luminaire Tested: XAS300-SFPM (5000K-180W-T4-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436828
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 (5000K-180W-T4-HSS)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 45535 (1 lamp)
Luminaire Lumens: 25359.3 lumens
Efficiency: 55.7%
Efficacy: 138.5 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

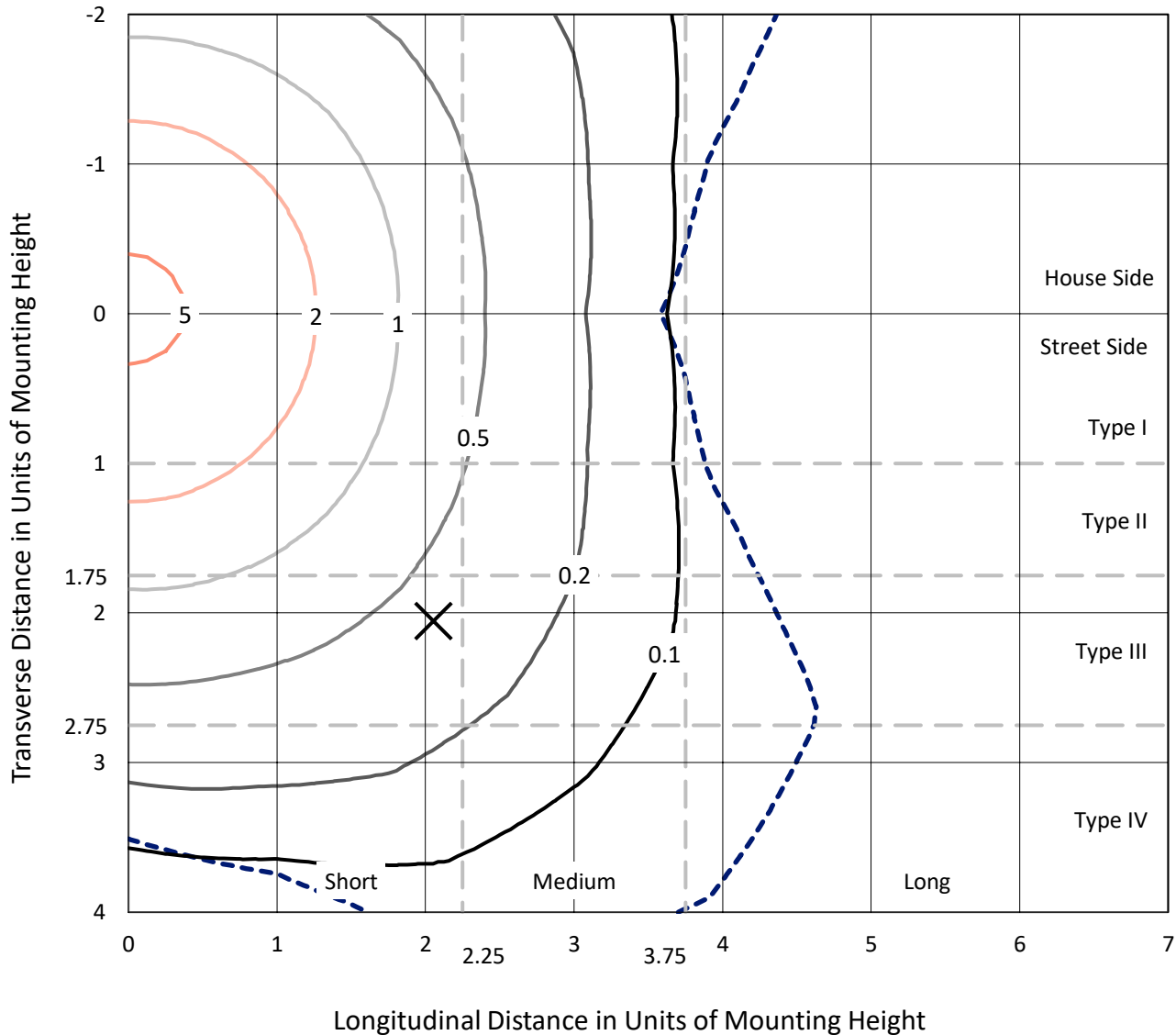
Input Watts (W): 183.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

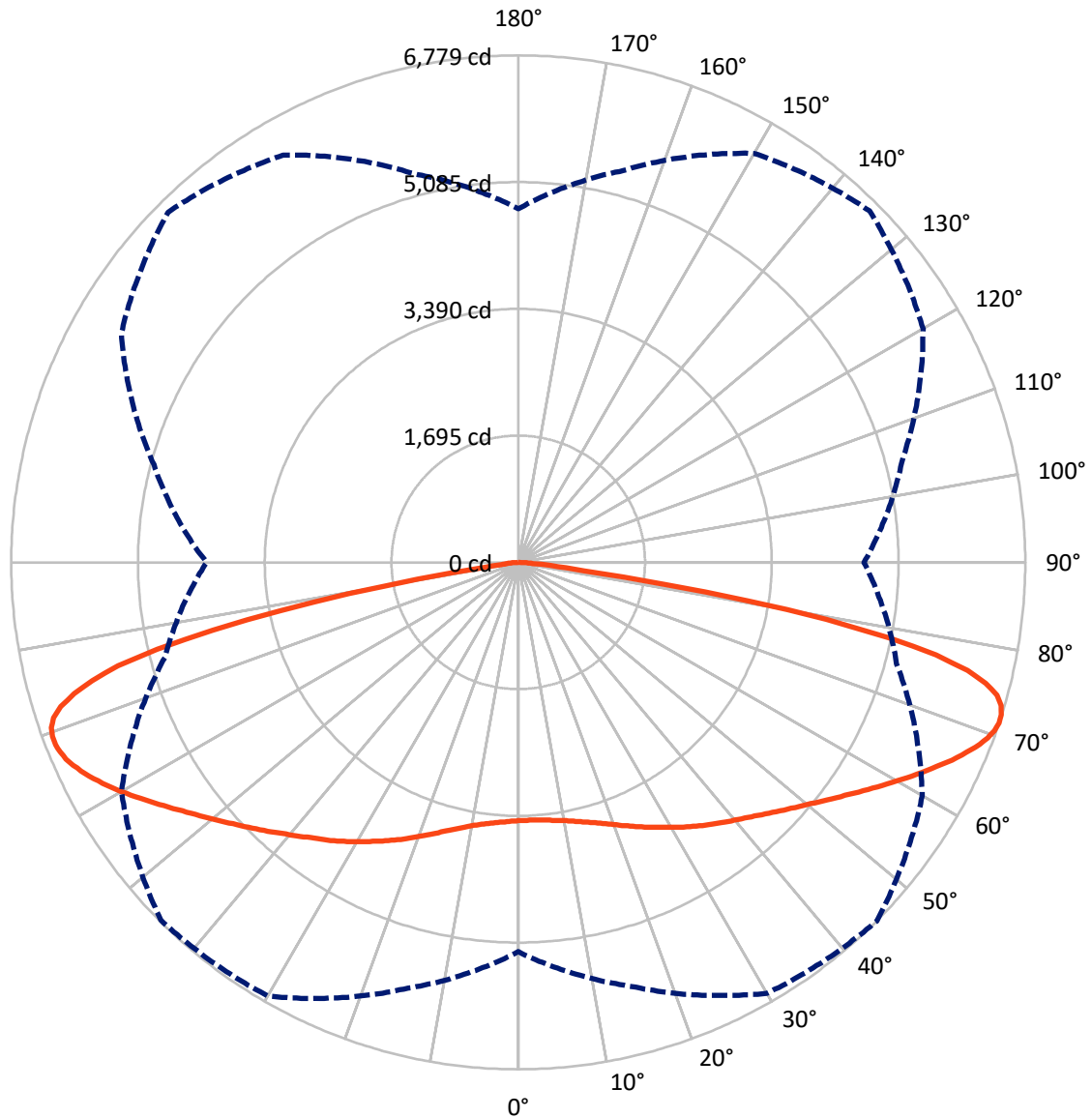
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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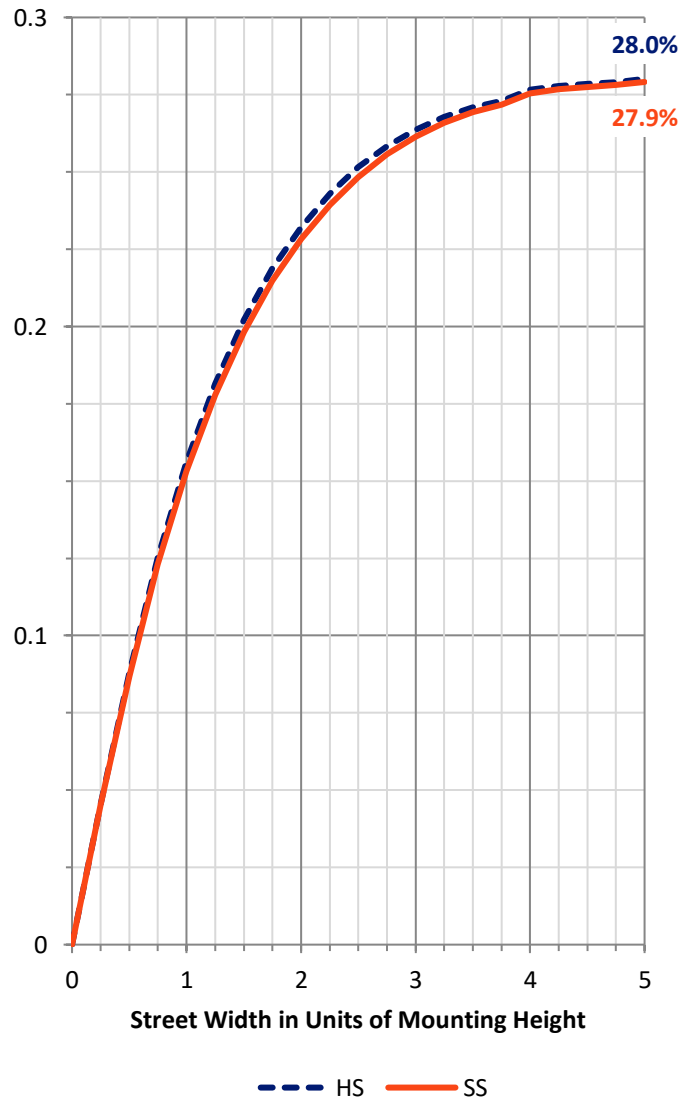
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12682.4	0.0	12682.4
	% Lamp	27.9	0.0	27.9
Street Side	Lumens	12676.9	0.0	12676.9
	% Lamp	27.8	0.0	27.8
Total	Lumens	25359.3	0.0	25359.3
	% Lamp	55.7	0.0	55.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	333.5	1.3	0.7
10°-20°	1040.9	4.1	2.3
20°-30°	1855.0	7.3	4.1
30°-40°	2775.8	10.9	6.1
40°-50°	3799.7	15.0	8.3
50°-60°	4954.8	19.5	10.9
60°-70°	5973.5	23.6	13.1
70°-80°	4365.6	17.2	9.6
80°-90°	260.5	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°	25359.3	100.0	55.7
0°-180°	25359.3	100.0	55.7

Coefficient of Utilization



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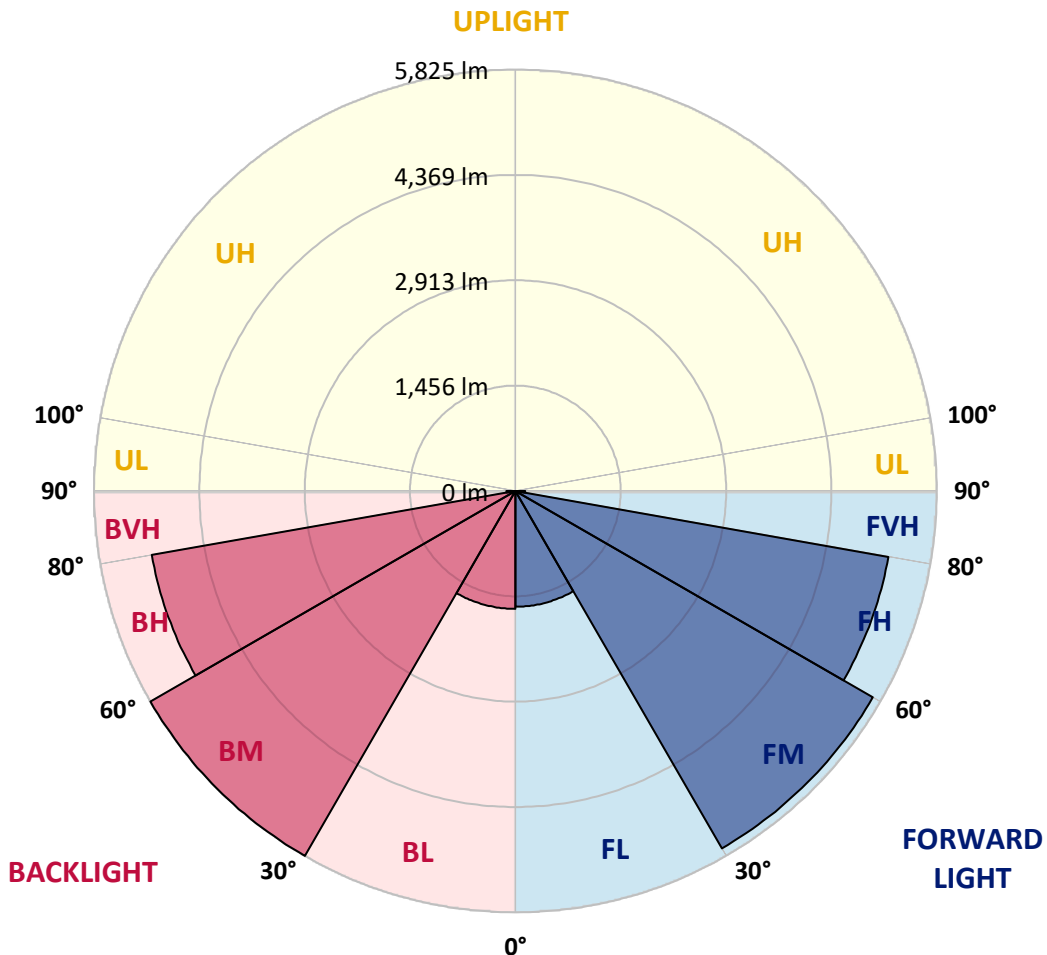
CATALOG NUMBER: XAS300-SFPM (5000K-180W-T4-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.1	3.5			
FM (30°-60°)	5705.3	12.5			
FH (60°-80°)	5236.0	11.5			G3/7500
FVH (80°-90°)	135.5	0.3			G2/225
BL (0°-30°)	1629.2	3.6	B3/2500		
BM (30°-60°)	5825.1	12.8	B4/8500		
BH (60°-80°)	5103.1	11.2	B5		G3/7500
BVH (80°-90°)	125.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	20175.7	44.3			

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8
1°	3451.2	3450.2	3450.5	3451.0	3451.6	3452.9	3450.1	3450.1	3450.6	3451.6	3452.0
2°	3451.0	3450.2	3450.2	3451.0	3452.1	3453.0	3450.6	3451.2	3452.4	3454.2	3455.1
3°	3453.0	3451.4	3451.9	3452.1	3454.3	3456.2	3453.8	3455.0	3456.8	3458.9	3460.2
4°	3455.4	3454.1	3454.8	3456.5	3458.7	3460.8	3458.7	3460.2	3463.0	3465.2	3466.5
5°	3458.7	3457.8	3459.3	3461.4	3465.3	3468.6	3466.8	3468.5	3470.4	3473.1	3475.8
6°	3464.3	3462.5	3465.3	3468.8	3474.1	3477.9	3476.5	3478.0	3479.7	3482.1	3485.7
7°	3470.9	3470.1	3472.5	3478.4	3484.0	3487.2	3486.6	3488.7	3490.1	3492.9	3497.4
8°	3478.6	3477.9	3482.4	3488.7	3494.4	3499.5	3498.6	3501.0	3503.6	3506.3	3511.8
9°	3488.6	3487.1	3493.1	3499.7	3507.7	3513.0	3512.5	3514.6	3518.7	3522.3	3527.7
10°	3500.5	3499.6	3505.7	3513.5	3523.2	3528.7	3527.9	3529.6	3534.8	3541.1	3546.0
11°	3515.4	3513.2	3520.6	3529.6	3539.5	3544.6	3544.6	3546.2	3552.3	3560.7	3566.2
12°	3531.6	3529.2	3536.5	3546.8	3557.0	3563.2	3564.0	3565.9	3573.2	3583.0	3589.0
13°	3549.8	3546.7	3553.8	3566.0	3576.3	3583.6	3585.4	3588.6	3596.2	3606.7	3613.8
14°	3570.3	3567.1	3572.5	3586.4	3597.7	3608.2	3610.4	3612.8	3621.6	3632.0	3641.2
15°	3593.6	3588.9	3594.2	3608.0	3621.7	3633.4	3637.0	3640.5	3649.1	3659.6	3669.4
16°	3617.7	3612.5	3618.5	3631.5	3647.7	3660.7	3666.2	3671.0	3678.1	3688.8	3699.0
17°	3643.2	3636.3	3644.3	3656.5	3674.8	3690.9	3697.7	3701.4	3709.5	3720.0	3730.0
18°	3669.1	3662.5	3669.8	3685.3	3703.4	3722.9	3731.0	3735.1	3742.3	3753.2	3763.1
19°	3696.0	3689.3	3698.5	3716.6	3733.6	3755.6	3766.4	3769.5	3776.4	3787.5	3796.7
20°	3724.4	3718.0	3728.0	3747.7	3765.7	3789.1	3802.6	3805.9	3811.6	3822.6	3830.7
21°	3752.9	3747.6	3758.7	3780.6	3798.8	3825.6	3839.3	3844.8	3848.1	3860.3	3865.8
22°	3781.9	3777.5	3790.9	3813.7	3833.5	3862.5	3876.7	3884.9	3886.8	3897.6	3900.3
23°	3812.8	3809.7	3823.9	3848.9	3871.0	3900.6	3913.5	3923.8	3926.7	3935.5	3936.8
24°	3844.7	3843.4	3857.5	3884.1	3908.1	3936.3	3948.4	3962.3	3966.9	3973.5	3972.4
25°	3879.1	3878.4	3892.7	3920.9	3945.7	3972.5	3982.7	4000.5	4006.6	4012.3	4009.6
26°	3913.8	3915.7	3928.3	3957.9	3982.3	4010.3	4018.4	4039.0	4047.3	4051.2	4047.3
27°	3951.8	3953.9	3965.7	3995.4	4019.0	4048.8	4055.7	4079.1	4087.6	4089.5	4084.9
28°	3991.2	3993.8	4003.7	4032.9	4056.1	4088.2	4095.6	4118.0	4127.7	4129.2	4123.4
29°	4032.2	4033.6	4043.1	4071.7	4093.7	4127.7	4137.3	4159.1	4169.9	4167.8	4162.5
30°	4076.6	4075.1	4082.6	4110.4	4133.0	4168.7	4182.3	4202.2	4211.6	4207.7	4202.9
31°	4122.5	4116.5	4123.7	4151.9	4172.0	4210.9	4227.4	4245.9	4255.9	4249.8	4244.1
32°	4168.9	4157.8	4163.6	4192.7	4212.5	4250.6	4271.3	4288.3	4299.0	4292.8	4288.0
33°	4218.7	4199.1	4204.0	4232.2	4253.9	4290.6	4315.6	4330.0	4341.2	4336.4	4329.2
34°	4271.0	4241.2	4245.0	4272.9	4294.0	4330.9	4360.9	4371.4	4381.3	4377.0	4372.5
35°	4323.7	4284.2	4288.5	4316.0	4333.2	4371.7	4406.9	4413.1	4420.6	4419.8	4417.5
36°	4376.5	4326.1	4330.2	4356.9	4373.0	4411.5	4453.7	4454.0	4461.6	4464.0	4462.3
37°	4431.3	4365.7	4372.2	4396.4	4413.1	4448.1	4501.4	4494.7	4504.4	4508.3	4509.2
38°	4486.9	4404.0	4412.6	4438.6	4453.7	4485.7	4550.1	4534.0	4546.9	4553.9	4555.3
39°	4542.6	4443.2	4453.0	4479.7	4494.1	4525.8	4602.4	4574.9	4589.1	4599.9	4600.9
40°	4600.3	4485.0	4493.6	4521.8	4535.6	4567.8	4658.8	4618.8	4633.6	4648.5	4648.8
41°	4660.2	4530.3	4537.2	4565.7	4580.1	4613.4	4713.7	4664.6	4680.1	4696.4	4695.9
42°	4718.0	4581.4	4583.2	4612.7	4626.3	4661.3	4765.6	4714.2	4727.3	4746.9	4745.7
43°	4771.7	4636.4	4631.5	4662.7	4677.6	4709.9	4818.5	4763.9	4778.7	4799.2	4797.5
44°	4821.8	4694.3	4683.1	4714.8	4730.9	4762.5	4871.7	4814.5	4831.7	4854.2	4851.5



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4871.3	4751.3	4737.0	4769.1	4784.4	4817.5	4925.1	4866.8	4885.0	4910.8	4907.7
46°	4917.9	4812.0	4794.7	4826.7	4841.9	4874.5	4975.0	4923.6	4942.0	4969.0	4966.4
47°	4961.6	4876.2	4856.8	4884.4	4900.1	4934.2	5021.8	4982.8	5000.0	5029.6	5025.9
48°	5005.1	4944.0	4920.2	4945.4	4958.4	4993.5	5068.0	5043.3	5059.8	5092.2	5089.2
49°	5051.0	5014.9	4985.7	5008.8	5020.8	5054.1	5112.0	5102.7	5118.8	5154.3	5154.1
50°	5099.3	5089.7	5053.9	5073.5	5087.0	5117.7	5154.1	5164.3	5180.9	5218.9	5221.5
51°	5150.4	5166.0	5125.9	5141.2	5150.7	5180.4	5194.5	5225.3	5243.0	5284.9	5290.5
52°	5201.2	5244.4	5199.8	5212.6	5220.0	5245.0	5231.3	5287.7	5307.2	5352.8	5361.4
53°	5259.2	5325.5	5275.7	5289.8	5288.3	5305.3	5266.9	5346.2	5372.0	5423.2	5435.1
54°	5320.8	5404.9	5356.3	5367.8	5358.0	5361.9	5304.0	5402.7	5440.1	5494.7	5509.4
55°	5383.3	5483.0	5439.9	5449.5	5427.8	5416.7	5340.3	5456.1	5505.3	5570.3	5584.8
56°	5445.9	5559.2	5525.2	5534.5	5499.2	5472.7	5377.4	5508.4	5570.3	5647.2	5659.4
57°	5507.3	5631.6	5612.1	5619.9	5569.8	5527.2	5413.9	5557.8	5637.2	5729.1	5733.0
58°	5564.7	5700.7	5697.3	5710.7	5641.1	5575.4	5450.0	5603.2	5701.8	5812.0	5801.5
59°	5624.9	5761.4	5785.9	5801.5	5711.2	5617.7	5481.5	5645.5	5765.3	5897.3	5863.8
60°	5681.7	5820.4	5873.3	5895.6	5780.3	5655.0	5507.7	5682.8	5827.6	5984.1	5922.9
61°	5730.2	5871.1	5965.8	5990.8	5846.0	5684.5	5528.1	5712.4	5891.7	6072.7	5985.8
62°	5771.4	5915.1	6056.5	6084.9	5913.4	5704.6	5542.0	5736.9	5955.2	6159.0	6051.5
63°	5813.7	5957.4	6147.3	6179.6	5980.2	5720.1	5551.9	5757.5	6016.4	6243.7	6112.8
64°	5866.6	5998.1	6235.3	6275.4	6040.9	5728.5	5556.0	5770.3	6076.6	6327.2	6170.1
65°	5924.5	6045.9	6325.0	6372.9	6101.6	5734.1	5556.4	5779.7	6135.1	6402.9	6223.6
66°	5959.6	6097.2	6409.6	6465.3	6157.9	5736.3	5541.0	5781.4	6187.4	6474.2	6277.6
67°	5965.8	6137.3	6482.0	6551.1	6202.4	5725.2	5510.4	5767.5	6232.0	6534.4	6323.9
68°	5961.9	6150.1	6550.0	6633.5	6245.9	5685.1	5435.1	5734.6	6268.7	6586.2	6358.9
69°	5896.7	6131.2	6612.9	6702.0	6269.3	5611.6	5270.6	5663.9	6292.1	6622.9	6365.6
70°	5666.1	6062.1	6653.0	6753.2	6265.9	5464.3	5009.5	5532.3	6289.9	6646.3	6350.6
71°	5207.4	5871.1	6653.0	6779.4	6238.1	5237.0	4621.9	5317.9	6249.2	6645.2	6313.8
72°	4607.9	5509.0	6595.6	6772.2	6172.9	4932.9	4209.0	5004.4	6167.4	6616.2	6220.8
73°	4028.2	5005.8	6482.0	6733.2	6064.3	4572.3	3839.3	4618.2	6031.5	6532.7	6068.2
74°	3468.5	4444.0	6296.6	6639.6	5893.4	4216.2	3531.4	4218.0	5845.5	6384.6	5840.4
75°	2639.8	3820.3	6010.3	6454.2	5689.0	3864.0	3173.2	3843.6	5597.6	6156.8	5475.9
76°	1538.4	3008.8	5577.0	6176.3	5423.9	3418.1	2544.7	3447.9	5293.0	5846.0	4979.9
77°	605.3	1913.1	4995.1	5721.8	5069.4	2738.8	1791.4	2827.1	4912.4	5382.1	4384.7
78°	441.6	868.4	4270.4	5063.0	4548.0	1829.4	1038.0	2003.2	4425.6	4719.1	3654.3
79°	293.4	616.8	3291.6	4188.9	3820.9	909.6	291.5	1179.4	3734.6	3822.9	2677.6
80°	145.1	385.5	2039.0	3103.8	2828.8	647.3	165.3	362.7	2790.8	2784.6	1900.7
81°	128.8	154.1	965.5	1967.1	1653.2	399.7	145.9	181.0	1957.4	1957.7	1123.6
82°	113.9	132.8	695.3	881.3	709.4	152.1	126.5	149.7	1123.9	1130.9	350.5
83°	99.3	113.7	429.1	646.5	511.6	123.5	107.2	129.0	297.0	304.8	189.6
84°	84.4	95.6	162.9	418.1	325.6	104.2	91.8	108.4	175.4	194.6	144.5
85°	68.8	77.9	123.0	189.7	139.7	85.6	76.2	89.6	137.6	162.2	99.9
86°	51.0	61.0	94.0	150.4	102.8	67.8	60.4	71.4	99.9	129.3	70.7
87°	34.7	45.3	71.3	112.0	78.8	51.8	44.0	55.3	75.6	96.4	49.5
88°	18.4	29.6	49.2	69.6	56.4	36.1	28.3	39.8	54.2	60.3	30.6
89°	7.5	14.0	26.3	36.6	30.8	20.3	19.9	27.7	37.3	41.5	21.6



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CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-180W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8	3451.8
1°	3453.3	3454.6	3455.4	3456.0	3456.4	3456.9	3457.1	3453.7	3453.5	3453.2	3452.1
2°	3456.4	3459.2	3460.5	3462.0	3461.9	3462.8	3462.3	3459.7	3458.4	3456.8	3454.5
3°	3462.6	3465.4	3467.8	3468.9	3469.5	3469.7	3469.3	3466.6	3464.1	3461.7	3458.4
4°	3470.0	3473.2	3475.9	3477.5	3478.6	3479.1	3477.7	3473.5	3471.1	3468.3	3463.9
5°	3478.1	3482.0	3485.2	3487.9	3489.0	3488.8	3486.9	3482.4	3478.4	3475.3	3470.4
6°	3487.8	3492.7	3495.9	3498.9	3500.4	3500.1	3498.3	3493.0	3488.7	3483.5	3477.1
7°	3500.3	3505.1	3508.6	3512.1	3513.5	3513.3	3510.7	3505.7	3500.0	3494.2	3486.0
8°	3514.9	3519.2	3523.3	3527.8	3528.4	3528.3	3525.7	3519.4	3513.5	3507.2	3496.9
9°	3532.0	3535.8	3540.3	3544.8	3545.9	3544.3	3540.7	3534.5	3528.7	3522.1	3509.9
10°	3549.6	3553.8	3558.2	3563.9	3564.9	3562.6	3559.2	3553.4	3546.3	3537.7	3524.9
11°	3570.8	3575.7	3579.9	3584.9	3586.9	3585.0	3580.7	3575.5	3567.9	3556.4	3542.2
12°	3594.3	3599.4	3603.7	3608.2	3611.7	3610.2	3605.7	3601.3	3592.4	3579.0	3560.9
13°	3620.1	3625.3	3629.1	3634.3	3638.4	3637.6	3632.6	3628.1	3618.7	3604.3	3582.6
14°	3646.7	3652.1	3656.6	3662.3	3667.6	3667.8	3661.3	3656.0	3646.1	3630.5	3606.5
15°	3675.2	3681.6	3685.2	3693.1	3699.1	3698.5	3692.1	3686.9	3675.7	3657.8	3633.6
16°	3706.6	3712.4	3717.1	3725.5	3734.5	3732.6	3725.1	3721.2	3707.8	3687.6	3662.2
17°	3738.4	3744.5	3749.6	3759.8	3770.0	3766.8	3759.8	3756.3	3742.6	3720.2	3692.0
18°	3770.8	3776.3	3782.3	3794.8	3806.4	3802.8	3796.7	3793.3	3777.6	3753.4	3723.0
19°	3804.7	3809.4	3816.0	3830.8	3843.5	3839.5	3834.0	3830.8	3813.9	3789.0	3755.2
20°	3838.9	3842.1	3851.2	3866.7	3882.1	3878.3	3873.2	3869.5	3851.8	3824.4	3788.5
21°	3873.3	3875.9	3888.1	3905.0	3923.5	3918.2	3914.1	3909.8	3892.7	3860.9	3823.7
22°	3907.7	3910.3	3924.2	3942.3	3963.5	3959.4	3956.4	3948.2	3932.4	3897.6	3859.4
23°	3943.2	3945.2	3961.5	3982.4	4004.2	4000.2	3998.3	3986.4	3972.6	3937.6	3897.0
24°	3979.7	3982.3	4000.0	4020.8	4044.1	4043.3	4039.7	4023.7	4012.2	3977.9	3934.3
25°	4017.5	4020.8	4039.9	4061.5	4084.1	4086.3	4080.2	4062.2	4052.4	4016.8	3972.0
26°	4055.9	4061.5	4081.1	4103.2	4124.4	4130.1	4123.4	4101.3	4092.8	4055.2	4008.3
27°	4095.7	4102.8	4123.7	4143.9	4163.6	4173.2	4165.6	4141.2	4134.3	4094.6	4045.7
28°	4137.3	4147.3	4166.7	4184.5	4205.5	4217.9	4209.3	4184.8	4176.0	4134.1	4085.9
29°	4179.9	4193.2	4211.6	4225.1	4247.5	4261.8	4253.8	4232.1	4218.5	4174.2	4125.8
30°	4222.9	4239.9	4256.0	4266.7	4290.4	4305.2	4299.5	4279.8	4262.3	4213.7	4166.4
31°	4265.7	4288.8	4300.4	4310.0	4334.4	4347.4	4344.9	4327.7	4305.2	4254.9	4207.7
32°	4309.2	4338.9	4345.6	4353.0	4377.6	4390.3	4387.3	4371.1	4346.1	4295.3	4251.5
33°	4352.3	4390.6	4390.1	4395.7	4420.5	4430.8	4429.9	4414.8	4385.2	4336.9	4294.9
34°	4397.5	4441.3	4433.6	4439.8	4463.1	4470.1	4469.8	4458.7	4424.6	4377.2	4338.2
35°	4441.6	4494.6	4477.4	4484.1	4505.4	4509.2	4509.6	4503.4	4460.8	4417.8	4380.8
36°	4487.0	4548.5	4521.9	4528.3	4547.0	4549.1	4546.4	4548.2	4494.9	4456.8	4422.5
37°	4531.5	4601.6	4565.0	4573.5	4588.5	4590.3	4583.5	4597.3	4532.3	4497.0	4465.1
38°	4574.0	4655.5	4606.2	4617.8	4632.8	4631.7	4622.7	4649.6	4571.6	4536.6	4508.8
39°	4616.5	4711.8	4649.1	4661.4	4680.8	4675.1	4662.2	4704.2	4611.8	4580.4	4551.7
40°	4662.9	4769.8	4695.7	4708.1	4729.4	4719.1	4705.7	4760.7	4655.2	4625.7	4594.8
41°	4712.0	4826.0	4747.2	4756.0	4779.0	4766.2	4750.0	4820.6	4704.2	4673.5	4641.6
42°	4762.1	4881.6	4799.9	4806.4	4831.9	4814.8	4800.6	4880.6	4757.3	4721.4	4692.8
43°	4812.7	4936.4	4854.4	4859.6	4886.0	4864.7	4858.3	4938.4	4815.6	4772.7	4745.3
44°	4868.3	4989.2	4910.8	4914.2	4941.6	4917.5	4917.0	4990.0	4874.2	4825.4	4800.6



REPORT NUMBER: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-180W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4926.0	5041.6	4969.6	4970.8	4999.3	4973.8	4977.4	5037.4	4932.8	4883.8	4858.6
46°	4989.3	5095.1	5032.5	5030.5	5055.1	5033.5	5034.6	5085.1	4991.5	4945.2	4919.0
47°	5055.1	5147.4	5100.4	5092.6	5114.9	5096.5	5096.3	5131.3	5052.4	5009.3	4980.8
48°	5126.4	5194.2	5168.5	5155.0	5174.3	5161.5	5160.2	5173.1	5115.0	5072.6	5044.3
49°	5197.8	5242.1	5239.2	5218.3	5237.4	5227.1	5225.0	5211.2	5179.6	5135.7	5109.9
50°	5268.5	5291.4	5310.3	5286.2	5303.0	5293.8	5290.7	5248.8	5244.4	5199.0	5178.5
51°	5339.7	5343.2	5381.1	5353.6	5369.8	5357.2	5353.4	5286.4	5309.2	5264.7	5250.5
52°	5411.8	5393.2	5453.0	5426.6	5441.2	5422.4	5415.5	5324.8	5367.9	5331.6	5324.0
53°	5484.6	5441.0	5524.9	5498.9	5513.6	5488.0	5472.5	5361.8	5424.9	5398.2	5400.8
54°	5554.2	5487.6	5592.1	5574.2	5588.7	5555.4	5525.7	5399.4	5480.5	5466.3	5481.3
55°	5618.2	5534.5	5653.3	5650.0	5666.1	5619.9	5573.7	5434.5	5531.1	5529.4	5563.9
56°	5671.1	5578.1	5706.2	5725.2	5745.8	5684.5	5617.1	5467.9	5576.5	5596.0	5649.4
57°	5715.7	5621.0	5754.7	5802.6	5830.4	5746.9	5658.3	5499.3	5614.9	5662.8	5736.3
58°	5755.8	5661.7	5797.0	5870.5	5914.0	5808.1	5694.0	5528.6	5649.4	5724.0	5822.6
59°	5793.1	5700.1	5835.4	5931.8	5998.6	5868.3	5725.2	5549.4	5679.5	5785.9	5909.5
60°	5827.1	5734.1	5867.2	5994.7	6087.2	5924.5	5749.1	5564.3	5703.4	5852.1	5999.7
61°	5853.8	5764.7	5891.7	6062.1	6171.3	5979.7	5767.5	5580.4	5720.7	5915.6	6092.2
62°	5873.3	5795.9	5912.8	6127.3	6254.2	6037.6	5778.6	5591.5	5735.7	5976.3	6185.2
63°	5895.6	5824.9	5935.1	6185.2	6332.2	6096.1	5787.0	5593.2	5746.9	6037.6	6278.2
64°	5916.2	5853.8	5960.7	6234.7	6409.1	6149.5	5789.8	5587.6	5751.9	6095.0	6368.4
65°	5935.1	5859.4	5977.4	6280.4	6478.7	6200.8	5783.6	5566.3	5745.8	6146.8	6451.4
66°	5942.4	5820.4	5971.9	6328.9	6541.1	6246.4	5763.6	5517.8	5727.4	6192.4	6529.4
67°	5924.5	5773.1	5945.7	6365.6	6594.0	6273.7	5716.3	5436.0	5677.8	6230.8	6604.0
68°	5891.7	5694.5	5908.4	6391.8	6629.6	6276.5	5647.8	5282.2	5596.5	6253.1	6672.5
69°	5819.3	5510.9	5824.9	6388.5	6649.7	6255.4	5533.7	5002.7	5457.6	6244.2	6722.6
70°	5674.5	5196.5	5658.3	6356.7	6650.2	6209.1	5341.8	4601.6	5221.5	6201.9	6754.9
71°	5423.0	4726.4	5377.4	6287.7	6623.5	6126.7	5042.7	4166.3	4886.3	6126.7	6761.6
72°	5019.2	4148.0	4941.9	6166.2	6554.4	6014.2	4656.4	3817.4	4495.5	6014.2	6733.7
73°	4472.5	3540.8	4404.6	5992.5	6413.5	5845.5	4267.1	3524.8	4130.2	5827.1	6651.3
74°	3854.3	2931.4	3798.8	5716.8	6190.7	5622.7	3907.1	3152.7	3769.9	5589.8	6494.3
75°	3199.6	2167.7	3111.8	5292.7	5912.3	5343.2	3493.2	2475.9	3337.4	5298.7	6253.1
76°	2457.9	1371.0	2351.0	4757.0	5529.1	4982.8	2877.1	1567.0	2674.9	4932.6	5895.6
77°	1749.1	575.5	1677.2	4113.7	4964.9	4491.5	2029.3	708.8	1803.3	4458.7	5342.1
78°	1040.2	238.5	1003.3	3309.1	4181.2	3820.7	1181.4	517.1	895.0	3815.9	4511.5
79°	343.4	152.7	330.9	2301.8	3234.3	2936.5	337.4	331.3	633.3	2913.4	3474.1
80°	179.5	130.2	179.1	1474.6	2298.4	2071.4	181.4	145.4	393.9	1784.7	2353.7
81°	150.2	107.8	149.2	647.7	1362.4	1206.2	153.6	125.7	154.5	794.4	1217.9
82°	120.9	91.8	119.3	265.6	446.6	355.1	134.2	110.1	127.9	567.5	419.6
83°	91.8	77.0	89.8	207.1	225.5	195.2	114.7	94.4	109.5	357.2	307.9
84°	74.4	63.7	72.4	148.6	183.0	159.2	95.3	78.5	90.9	146.9	197.4
85°	57.2	48.7	54.9	90.7	148.9	123.3	77.5	61.9	72.8	109.7	165.1
86°	41.2	33.0	39.0	65.0	114.7	87.3	60.7	46.4	56.2	84.4	130.4
87°	29.2	22.9	27.6	43.5	80.7	64.7	45.1	30.8	40.3	62.5	89.4
88°	17.1	12.8	16.2	30.3	55.1	44.2	31.1	15.3	24.5	50.4	45.2
89°	5.2	2.8	5.0	17.1	29.5	30.7	17.2	4.9	8.6	38.3	34.4



REPORT NUMBER: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-180W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3451.8	3451.8	3451.8
1°	3451.4	3450.2	3451.2
2°	3452.6	3451.0	3451.0
3°	3455.1	3453.2	3453.0
4°	3459.3	3456.8	3455.4
5°	3465.0	3460.8	3458.7
6°	3471.5	3466.3	3464.3
7°	3479.5	3473.6	3470.9
8°	3488.6	3481.6	3478.6
9°	3499.6	3492.0	3488.6
10°	3512.2	3504.5	3500.5
11°	3528.2	3518.6	3515.4
12°	3545.8	3535.6	3531.6
13°	3564.3	3553.4	3549.8
14°	3584.8	3573.8	3570.3
15°	3608.5	3597.1	3593.6
16°	3635.0	3622.1	3617.7
17°	3663.1	3648.4	3643.2
18°	3692.2	3675.1	3669.1
19°	3723.3	3703.6	3696.0
20°	3755.4	3733.0	3724.4
21°	3788.7	3763.7	3752.9
22°	3822.6	3795.4	3781.9
23°	3857.4	3829.7	3812.8
24°	3892.6	3865.2	3844.7
25°	3928.9	3902.7	3879.1
26°	3965.8	3941.1	3913.8
27°	4003.7	3980.0	3951.8
28°	4042.8	4019.4	3991.2
29°	4081.9	4059.5	4032.2
30°	4121.7	4100.6	4076.6
31°	4162.4	4142.6	4122.5
32°	4204.1	4182.5	4168.9
33°	4246.8	4224.9	4218.7
34°	4289.3	4268.1	4271.0
35°	4333.4	4311.4	4323.7
36°	4377.8	4352.8	4376.5
37°	4419.7	4392.9	4431.3
38°	4463.6	4431.9	4486.9
39°	4507.1	4471.4	4542.6
40°	4550.4	4513.7	4600.3
41°	4595.1	4561.9	4660.2
42°	4643.0	4613.5	4718.0
43°	4693.6	4668.5	4771.7
44°	4749.2	4726.4	4821.8



REPORT NUMBER: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-180W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4807.1	4786.3	4871.3
46°	4870.6	4848.0	4917.9
47°	4935.4	4915.1	4961.6
48°	5000.3	4983.6	5005.1
49°	5069.1	5056.1	5051.0
50°	5137.9	5131.9	5099.3
51°	5212.0	5209.4	5150.4
52°	5288.0	5290.5	5201.2
53°	5364.7	5368.7	5259.2
54°	5447.1	5449.5	5320.8
55°	5529.5	5527.8	5383.3
56°	5613.8	5604.9	5445.9
57°	5699.0	5678.9	5507.3
58°	5786.4	5745.2	5564.7
59°	5875.5	5804.8	5624.9
60°	5967.4	5862.2	5681.7
61°	6057.1	5920.1	5730.2
62°	6146.8	5976.3	5771.4
63°	6237.5	6021.4	5813.7
64°	6326.1	6056.0	5866.6
65°	6415.2	6098.3	5924.5
66°	6501.0	6156.2	5959.6
67°	6576.7	6194.6	5965.8
68°	6630.2	6199.1	5961.9
69°	6683.6	6167.9	5896.7
70°	6714.8	6092.7	5666.1
71°	6697.0	5907.3	5207.4
72°	6606.8	5539.0	4607.9
73°	6479.8	5020.2	4028.2
74°	6283.8	4440.6	3468.5
75°	5918.4	3792.4	2639.8
76°	5418.0	2970.8	1538.4
77°	4815.1	1915.1	605.3
78°	4042.9	900.8	441.6
79°	2955.4	638.7	293.4
80°	1637.2	400.1	145.1
81°	727.6	161.5	128.8
82°	524.1	132.9	113.9
83°	336.0	113.7	99.3
84°	147.8	95.2	84.4
85°	112.9	76.3	68.8
86°	87.7	58.8	51.0
87°	64.5	42.9	34.7
88°	51.9	27.1	18.4
89°	39.4	11.3	7.5



REPORT NUMBER: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-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: P1436828

CATALOG NUMBER: XAS300-SFPM (5000K-180W-T4-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)