

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: P1436806

Luminaire Tested: XAS300-SFPM (4000K-180W-T5-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436806
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-T5-HSS)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 5 WITH HOUSE SIDE SHIELD
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

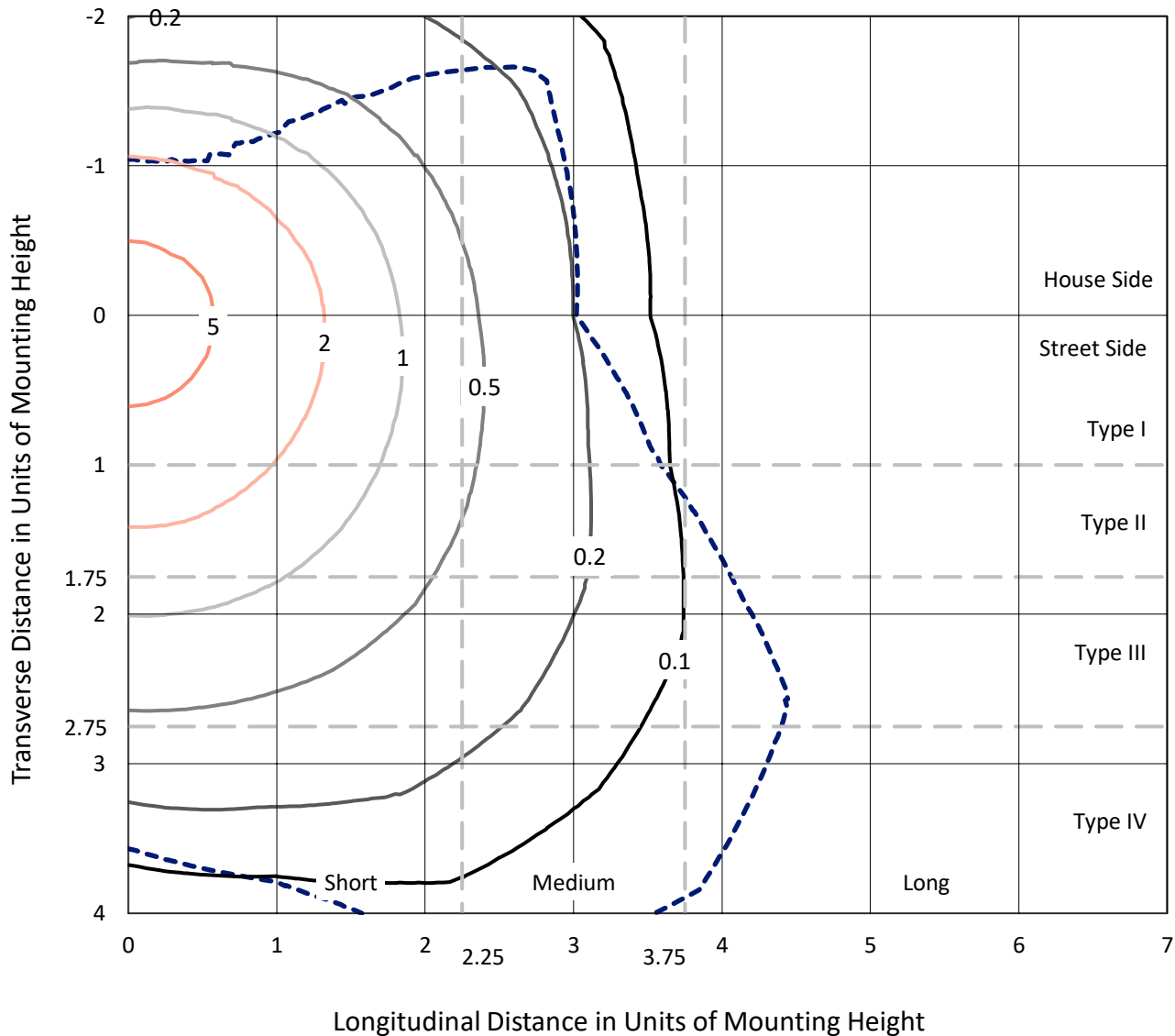
Lumens per Lamp: 36932 (1 lamp)
Luminaire Lumens: 24318.8 lumens
Efficiency: 65.8%
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type IV - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 181.2
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

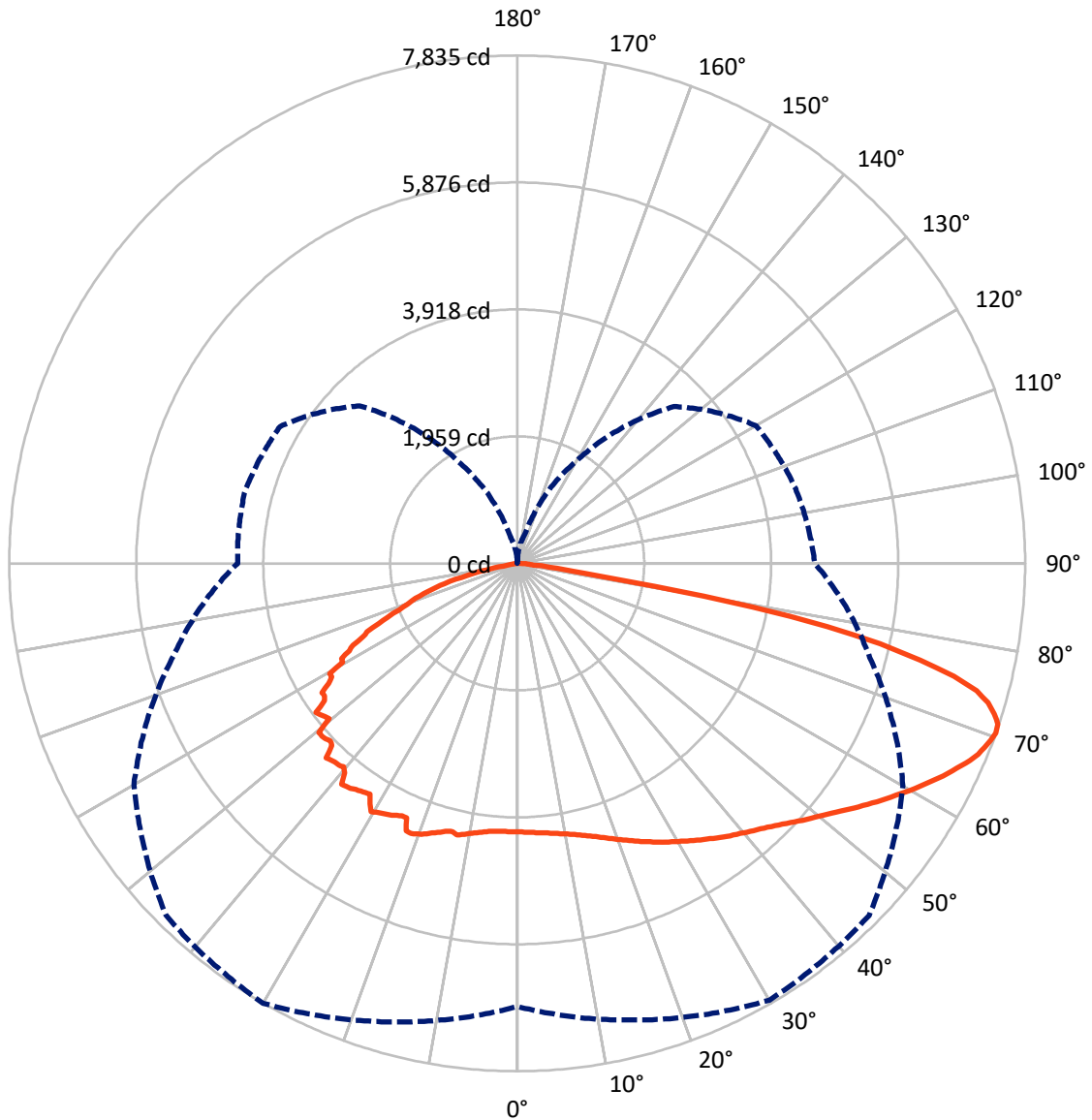
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 330-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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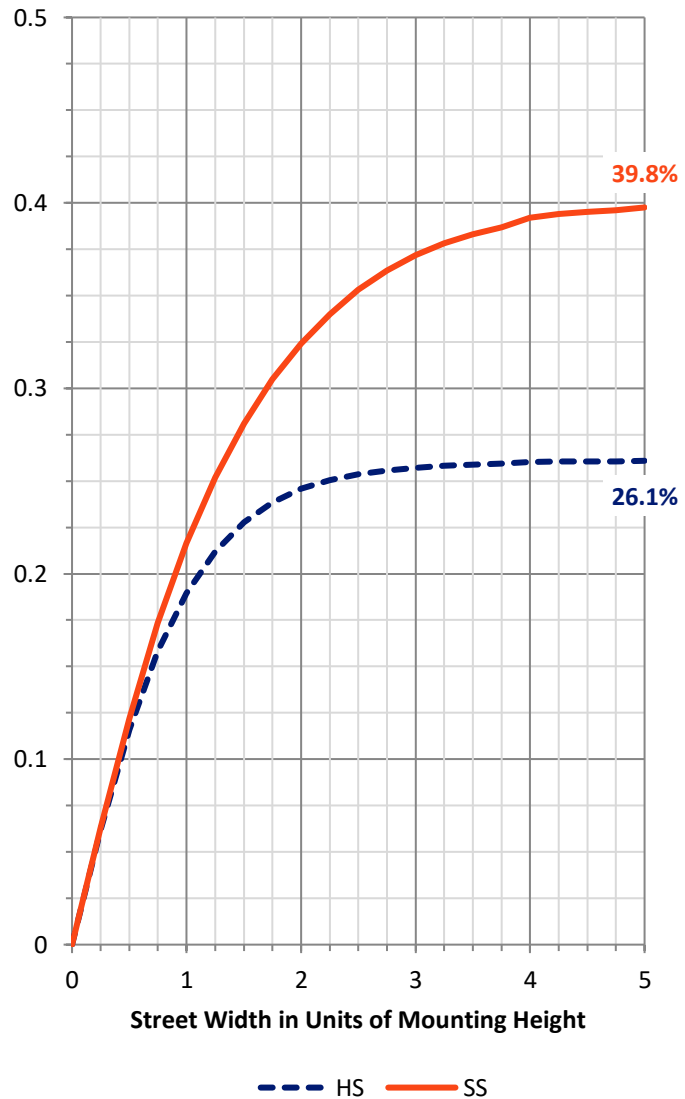
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9657.5	0.0	9657.5
	% Lamp	26.1	0.0	26.1
Street Side	Lumens	14661.4	0.0	14661.4
	% Lamp	39.7	0.0	39.7
Total	Lumens	24318.8	0.0	24318.8
	% Lamp	65.8	0.0	65.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	400.1	1.6	1.1
10°-20°	1236.7	5.1	3.3
20°-30°	2138.1	8.8	5.8
30°-40°	3063.9	12.6	8.3
40°-50°	3961.1	16.3	10.7
50°-60°	4766.8	19.6	12.9
60°-70°	5102.6	21.0	13.8
70°-80°	3431.2	14.1	9.3
80°-90°	218.5	0.9	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°	24318.8	100.0	65.8
0°-180°	24318.8	100.0	65.8

Coefficient of Utilization



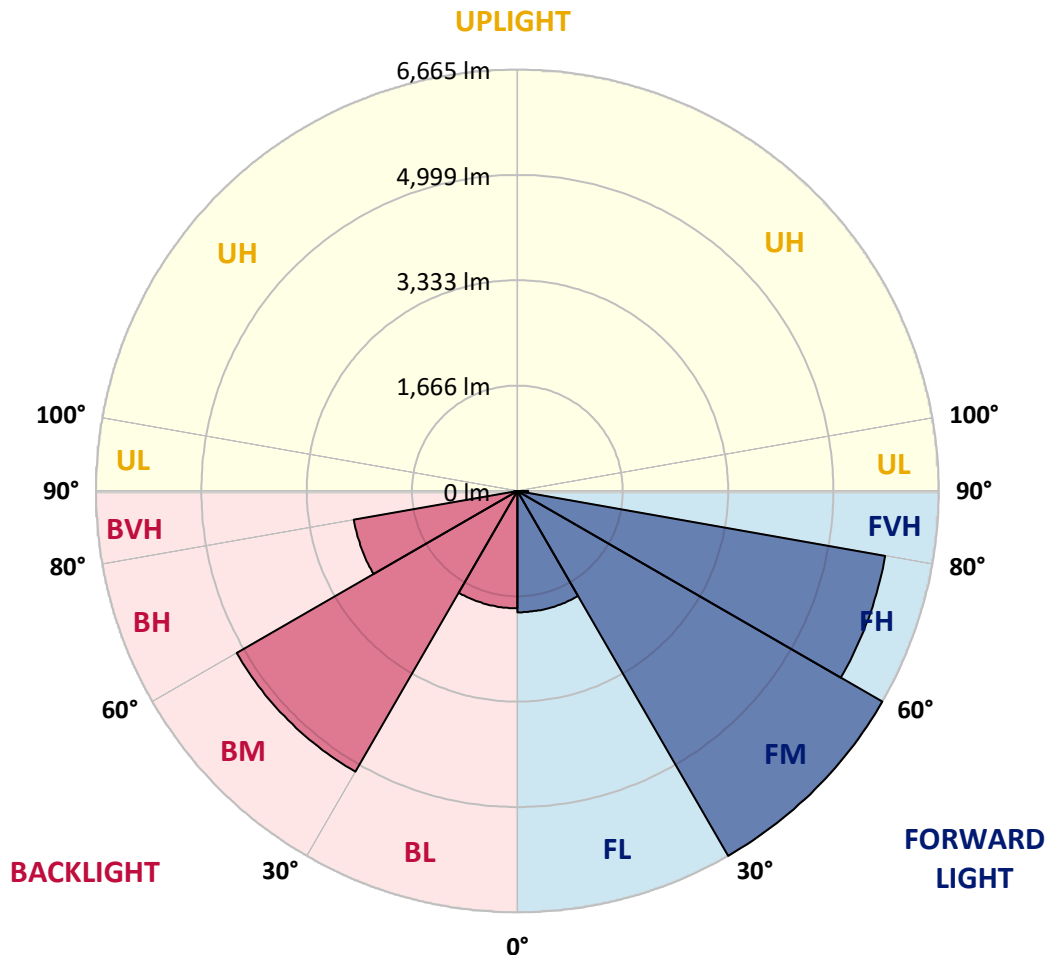
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1918.7	5.2			
FM (30°-60°)	6665.3	18.0			
FH (60°-80°)	5906.6	16.0			G3/7500
FVH (80°-90°)	170.8	0.5			G2/225
BL (0°-30°)	1856.1	5.0	B3/2500		
BM (30°-60°)	5126.4	13.9	B4/8500		
BH (60°-80°)	2627.2	7.1	B4/5000		G4/5000
BVH (80°-90°)	47.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	12613.2	34.2			

BUG Rating: B4-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9
1°	4146.9	4147.3	4146.1	4147.1	4146.5	4145.2	4143.2	4141.9	4141.0	4141.2	4141.0
2°	4151.7	4151.4	4150.2	4150.4	4148.6	4146.9	4144.4	4142.4	4140.3	4140.1	4140.3
3°	4158.1	4157.1	4155.2	4155.0	4153.5	4152.1	4147.6	4144.8	4142.1	4140.9	4140.8
4°	4165.1	4163.5	4162.1	4162.8	4160.8	4160.2	4155.0	4150.0	4146.1	4144.0	4143.1
5°	4173.3	4171.6	4171.4	4172.2	4172.5	4172.2	4166.0	4159.6	4152.7	4148.9	4147.5
6°	4182.6	4181.2	4181.2	4184.5	4186.3	4184.5	4178.0	4171.4	4161.5	4155.0	4153.2
7°	4193.5	4192.0	4192.7	4198.4	4200.3	4197.8	4190.8	4183.7	4173.2	4164.8	4166.0
8°	4205.6	4204.7	4206.9	4213.5	4215.5	4213.9	4206.3	4197.7	4186.6	4180.0	4182.9
9°	4219.8	4219.1	4223.2	4229.8	4234.0	4231.3	4223.0	4211.9	4200.9	4199.5	4201.3
10°	4236.6	4235.8	4240.6	4248.5	4253.3	4249.7	4240.0	4227.1	4216.0	4221.8	4222.6
11°	4256.2	4254.7	4260.2	4269.9	4273.8	4269.9	4259.1	4244.8	4235.3	4244.6	4243.8
12°	4276.9	4274.9	4282.0	4292.3	4295.7	4292.1	4273.0	4257.8	4259.3	4269.5	4267.6
13°	4300.7	4297.3	4304.8	4317.3	4319.5	4306.6	4285.6	4269.5	4274.5	4294.7	4292.3
14°	4327.3	4322.7	4329.3	4342.8	4345.9	4324.6	4303.6	4283.4	4293.0	4321.1	4258.7
15°	4356.1	4351.1	4356.8	4369.5	4366.0	4345.6	4324.9	4303.6	4310.9	4340.0	4266.9
16°	4386.7	4381.2	4387.9	4399.3	4389.5	4369.6	4355.3	4331.5	4334.4	4351.1	4296.9
17°	4417.9	4411.3	4419.9	4429.8	4415.7	4401.1	4379.7	4354.0	4361.5	4328.1	4328.0
18°	4451.3	4444.3	4453.1	4465.4	4439.3	4431.6	4409.5	4380.8	4386.2	4338.4	4361.7
19°	4484.5	4478.1	4488.2	4498.6	4468.8	4461.4	4445.7	4418.1	4416.6	4367.9	4397.9
20°	4519.4	4512.6	4524.9	4527.5	4502.4	4493.0	4485.6	4456.7	4454.0	4393.2	4432.2
21°	4554.1	4548.7	4562.6	4560.3	4537.7	4533.3	4525.4	4490.5	4490.2	4421.7	4456.0
22°	4589.7	4586.1	4601.8	4595.7	4570.5	4575.7	4556.0	4511.0	4511.4	4459.3	4476.0
23°	4628.9	4626.4	4642.4	4631.6	4609.4	4618.3	4574.8	4535.0	4504.4	4496.1	4467.2
24°	4667.9	4668.4	4683.0	4666.9	4646.7	4651.8	4597.6	4576.5	4519.2	4523.3	4282.7
25°	4709.9	4711.8	4725.4	4705.9	4688.3	4679.0	4634.1	4601.6	4548.0	4550.3	4282.5
26°	4752.9	4755.9	4768.7	4743.5	4731.0	4706.1	4667.0	4632.2	4573.1	4583.4	4308.8
27°	4798.7	4803.6	4814.4	4787.6	4773.5	4736.3	4692.7	4673.3	4612.0	4601.2	4338.7
28°	4847.2	4853.3	4860.9	4828.5	4815.0	4778.3	4729.0	4713.6	4650.2	4517.4	4362.3
29°	4898.0	4902.4	4906.4	4867.8	4852.6	4821.6	4774.6	4745.5	4670.7	4418.0	4387.3
30°	4951.5	4952.1	4948.8	4907.4	4889.6	4853.7	4822.0	4767.8	4689.1	4433.3	4413.9
31°	5006.0	5001.7	4990.3	4953.7	4918.3	4891.1	4862.2	4799.6	4723.8	4438.1	4444.4
32°	5063.4	5052.4	5035.8	4996.4	4951.7	4929.5	4887.5	4836.3	4759.9	4457.7	4348.0
33°	5125.0	5103.6	5080.7	5038.5	4986.6	4973.2	4919.1	4873.1	4774.1	4488.6	4223.4
34°	5186.6	5154.2	5124.5	5085.4	5029.4	5016.5	4960.5	4893.5	4801.3	4522.4	4242.1
35°	5250.7	5206.9	5172.2	5134.1	5073.0	5057.6	5004.8	4924.7	4823.0	4550.1	4260.1
36°	5314.3	5256.7	5217.5	5181.2	5114.5	5089.2	5051.3	4958.3	4845.4	4564.4	4286.1
37°	5380.3	5305.3	5263.7	5228.2	5151.2	5112.7	5085.8	4983.9	4848.1	4569.9	4321.1
38°	5447.9	5352.7	5308.0	5277.0	5192.9	5144.6	5127.9	5014.0	4751.3	4444.6	4338.3
39°	5515.1	5400.7	5355.3	5320.3	5230.3	5183.0	5182.8	5036.1	4676.7	4391.8	4350.9
40°	5588.0	5451.6	5400.0	5363.3	5276.2	5227.3	5234.0	5067.6	4711.8	4429.3	4185.2
41°	5658.7	5507.4	5446.6	5410.2	5327.5	5275.8	5281.4	5082.0	4752.2	4462.8	4125.2
42°	5729.9	5569.0	5500.0	5452.8	5380.7	5326.5	5328.4	5094.8	4791.4	4457.7	4155.4
43°	5794.7	5635.1	5556.9	5502.3	5435.2	5363.6	5369.3	5132.3	4775.8	4470.8	4159.0
44°	5856.6	5704.4	5616.3	5553.8	5490.6	5411.7	5409.6	5162.2	4780.1	4503.4	4181.4



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CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5915.9	5775.2	5676.3	5606.6	5539.4	5463.4	5452.9	5213.2	4812.6	4525.8	4203.8
46°	5972.1	5848.0	5740.2	5667.6	5589.9	5524.9	5484.4	5217.8	4850.5	4392.4	4010.3
47°	6025.3	5923.9	5808.5	5733.4	5646.0	5580.9	5515.5	5202.2	4860.0	4318.7	3975.5
48°	6077.5	6005.5	5880.1	5803.1	5703.4	5635.1	5560.5	5231.4	4864.6	4342.6	4008.9
49°	6132.8	6091.2	5956.8	5873.8	5767.5	5694.8	5602.6	5274.1	4762.1	4386.0	4021.4
50°	6190.3	6181.0	6034.4	5939.1	5834.8	5753.0	5643.6	5300.7	4749.0	4405.4	4020.0
51°	6250.5	6271.7	6115.3	6009.2	5903.3	5806.2	5678.2	5317.3	4765.8	4414.0	3762.2
52°	6311.8	6366.3	6199.2	6086.6	5976.7	5861.5	5676.8	5345.9	4782.1	4255.8	3792.7
53°	6379.7	6462.2	6283.5	6166.4	6046.9	5914.0	5642.1	5361.8	4830.9	4236.9	3833.0
54°	6454.5	6557.1	6377.0	6250.3	6108.6	5961.2	5633.7	5361.2	4832.8	4256.6	3864.3
55°	6527.9	6650.0	6473.3	6339.7	6173.0	5998.5	5648.7	5361.1	4832.1	4268.5	3649.0
56°	6602.6	6740.2	6571.5	6435.6	6240.1	6040.8	5671.4	5350.4	4805.5	4212.1	3603.7
57°	6674.4	6827.2	6671.1	6529.8	6310.9	6089.7	5683.5	5344.4	4700.9	4071.7	3613.5
58°	6744.2	6907.5	6771.8	6629.6	6380.4	6135.0	5680.8	5287.5	4715.5	4122.4	3450.5
59°	6812.7	6980.6	6873.2	6727.1	6447.7	6172.0	5674.7	5289.3	4708.9	4175.3	3353.7
60°	6879.8	7049.7	6972.7	6827.2	6510.4	6203.9	5672.6	5246.1	4689.6	4156.7	3356.4
61°	6936.5	7109.0	7074.1	6922.0	6574.6	6221.3	5655.6	5201.6	4647.7	4016.0	3096.1
62°	6985.8	7161.0	7173.5	7012.8	6639.5	6209.3	5614.2	5147.4	4591.3	3998.4	3083.9
63°	7033.3	7207.8	7271.6	7106.3	6698.1	6157.9	5565.4	5088.0	4573.2	3937.7	2922.5
64°	7095.2	7252.5	7372.4	7205.1	6742.9	6110.6	5503.1	5031.1	4522.0	3855.7	2833.2
65°	7159.7	7307.8	7465.9	7306.5	6792.3	6072.9	5442.6	4963.1	4417.0	3820.5	2628.1
66°	7198.5	7366.4	7548.8	7396.7	6839.7	6052.2	5361.1	4905.9	4433.0	3710.9	2549.7
67°	7203.8	7409.3	7620.0	7483.0	6868.6	6019.6	5263.3	4816.8	4460.4	3653.2	2331.8
68°	7196.6	7415.8	7690.4	7565.3	6889.7	5954.5	5106.3	4723.8	4482.0	3574.9	2166.9
69°	7112.3	7385.5	7750.3	7632.5	6889.0	5843.4	4921.5	4610.2	4365.1	3500.4	1957.1
70°	6834.4	7292.7	7778.7	7677.3	6869.3	5633.3	4590.4	4445.0	4250.0	3420.0	1815.8
71°	6290.0	7053.0	7755.0	7688.4	6822.5	5348.1	4159.5	4204.9	4157.8	3311.7	1726.7
72°	5587.2	6609.2	7674.6	7658.8	6750.8	4982.3	3754.1	3910.9	4041.6	3187.9	1587.7
73°	4900.2	5999.8	7528.4	7594.3	6625.0	4583.6	3404.4	3577.1	3862.5	3054.5	1448.1
74°	4226.8	5331.7	7304.6	7470.5	6427.3	4187.2	3093.8	3228.9	3677.6	2897.5	1308.5
75°	3226.6	4585.1	6968.1	7244.0	6197.0	3789.6	2723.2	2881.5	3469.9	2707.0	1167.8
76°	1924.5	3618.4	6447.3	6898.3	5859.6	3254.7	2006.5	2545.9	3217.5	2452.7	980.3
77°	834.4	2293.1	5760.7	6367.9	5416.7	2452.5	1289.9	1930.0	2930.8	2121.4	797.5
78°	637.2	1071.0	4915.1	5590.3	4806.3	1465.8	583.7	1314.1	2588.3	1708.3	585.5
79°	452.8	802.4	3761.5	4600.0	3902.2	627.7	215.2	698.2	2112.5	1295.1	354.2
80°	268.4	536.5	2301.8	3367.0	2746.1	469.4	181.5	498.2	1454.9	881.9	217.4
81°	244.3	270.6	1105.5	2072.6	1497.5	314.8	147.8	298.2	797.5	493.9	81.6
82°	223.4	241.1	806.2	918.2	631.0	160.2	114.4	104.4	561.3	289.5	48.6
83°	202.4	215.1	529.0	689.2	422.5	138.4	98.3	88.9	325.0	87.4	33.9
84°	181.1	190.1	251.8	472.2	215.2	118.3	83.1	74.7	90.8	70.4	26.2
85°	158.8	166.1	203.6	255.3	170.9	99.4	68.2	60.5	71.7	58.6	20.5
86°	134.6	142.7	168.3	213.2	137.4	81.3	53.4	47.7	55.2	47.7	17.1
87°	110.5	120.9	139.4	167.6	110.8	64.9	38.7	36.3	42.3	36.0	13.8
88°	89.7	99.7	111.5	117.1	86.0	49.8	27.6	28.1	31.4	25.7	10.4
89°	73.8	77.9	79.9	69.1	66.2	34.8	16.6	19.9	22.3	15.3	7.3



REPORT NUMBER: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9	4143.9
1°	4140.8	4141.9	4142.8	4143.7	4145.2	4145.9	4147.5	4146.7	4146.7	4147.3	4148.4
2°	4139.7	4141.7	4143.0	4145.0	4147.5	4149.6	4150.9	4152.4	4152.3	4153.1	4153.4
3°	4141.0	4142.6	4145.4	4147.8	4151.3	4154.2	4156.9	4159.7	4160.2	4160.8	4159.8
4°	4143.0	4145.7	4148.3	4151.7	4156.5	4161.7	4166.1	4169.4	4170.4	4170.8	4168.9
5°	4146.1	4148.5	4152.1	4157.5	4163.5	4170.8	4176.6	4180.5	4181.8	4181.9	4180.0
6°	4155.2	4158.8	4162.1	4164.1	4173.3	4181.8	4188.1	4193.8	4194.5	4194.3	4190.9
7°	4169.9	4173.9	4176.9	4179.0	4183.8	4194.1	4201.8	4208.8	4209.7	4208.6	4204.3
8°	4185.6	4188.9	4191.9	4196.5	4199.7	4208.6	4217.3	4224.6	4227.0	4226.4	4220.1
9°	4203.0	4205.5	4209.7	4216.4	4219.6	4224.0	4232.9	4241.2	4244.8	4244.7	4236.9
10°	4220.1	4222.8	4227.5	4237.3	4241.9	4241.0	4251.7	4261.5	4264.2	4263.8	4255.7
11°	4241.8	4244.3	4248.1	4259.2	4266.7	4263.2	4273.6	4285.7	4288.4	4286.3	4278.0
12°	4246.8	4220.2	4257.3	4283.8	4294.2	4291.1	4287.3	4301.8	4314.8	4312.6	4302.3
13°	4207.2	4209.7	4214.7	4309.4	4322.0	4309.1	4306.3	4321.6	4334.8	4343.4	4329.1
14°	4232.0	4236.8	4242.0	4282.5	4352.2	4331.6	4325.5	4342.2	4356.5	4370.2	4358.1
15°	4262.4	4264.8	4270.5	4286.1	4373.9	4354.6	4350.3	4368.7	4380.8	4394.9	4390.2
16°	4293.2	4296.3	4301.5	4318.6	4397.7	4384.9	4375.2	4398.8	4410.2	4421.8	4425.0
17°	4326.0	4328.9	4335.9	4353.4	4381.5	4410.2	4402.9	4429.9	4445.6	4449.2	4460.4
18°	4359.4	4356.9	4368.8	4389.4	4388.3	4440.7	4437.9	4464.5	4476.7	4482.6	4493.8
19°	4389.2	4385.6	4400.2	4427.0	4415.9	4479.7	4476.9	4505.7	4512.1	4519.0	4523.0
20°	4418.2	4400.5	4430.5	4463.6	4445.5	4519.8	4513.4	4546.7	4552.8	4558.2	4557.8
21°	4353.1	4199.1	4369.5	4486.2	4483.5	4553.2	4547.2	4582.4	4597.5	4591.2	4595.4
22°	4210.7	4203.5	4230.4	4509.7	4524.2	4578.0	4570.7	4612.5	4641.7	4631.4	4630.6
23°	4236.7	4231.0	4259.2	4511.9	4557.6	4578.0	4606.2	4634.6	4681.7	4670.0	4670.4
24°	4264.3	4261.0	4289.3	4333.2	4590.6	4598.8	4650.8	4670.8	4719.6	4715.1	4710.1
25°	4297.0	4296.3	4323.9	4337.4	4620.4	4623.9	4678.7	4712.6	4748.3	4761.2	4750.4
26°	4334.1	4331.9	4363.5	4370.2	4657.7	4654.6	4713.3	4740.7	4778.8	4805.9	4792.1
27°	4367.8	4367.1	4399.9	4399.9	4673.1	4696.4	4759.3	4773.7	4823.8	4848.0	4830.3
28°	4404.1	4368.3	4434.5	4426.0	4596.9	4734.0	4800.8	4820.2	4872.0	4887.3	4870.5
29°	4359.5	4146.7	4381.2	4451.5	4499.3	4752.4	4828.4	4869.9	4910.9	4926.6	4915.4
30°	4168.9	4176.0	4202.2	4484.7	4511.2	4777.2	4858.9	4914.7	4949.4	4960.7	4958.3
31°	4195.9	4210.3	4232.9	4515.6	4520.6	4813.2	4896.7	4948.2	4990.4	4994.3	5001.5
32°	4224.4	4250.7	4263.2	4407.2	4547.4	4850.4	4938.0	4980.8	5036.1	5030.1	5052.5
33°	4257.0	4291.9	4298.4	4291.4	4583.2	4865.4	4976.6	5017.6	5078.2	5077.0	5103.0
34°	4291.0	4330.4	4330.8	4311.3	4619.7	4893.5	4997.6	5060.3	5117.5	5121.8	5153.9
35°	4321.2	4365.3	4361.0	4329.7	4642.8	4914.0	5030.1	5107.3	5146.6	5166.2	5204.3
36°	4345.7	4119.4	4383.3	4360.1	4654.2	4933.6	5056.0	5146.2	5168.7	5200.2	5251.1
37°	4088.1	4099.7	4117.2	4392.4	4654.4	4934.3	5082.5	5183.8	5200.6	5240.8	5296.9
38°	4057.1	4138.1	4098.5	4404.4	4527.8	4840.4	5110.2	5233.8	5235.7	5278.4	5343.7
39°	4084.4	4181.2	4125.5	4424.0	4482.8	4776.2	5130.2	5285.4	5276.6	5326.0	5389.4
40°	4117.5	4224.2	4155.6	4257.0	4522.4	4815.2	5163.0	5333.8	5323.0	5376.6	5432.1
41°	4136.5	4234.9	4174.8	4206.4	4547.2	4856.4	5172.3	5390.3	5373.6	5427.8	5475.3
42°	4126.3	3928.2	4176.4	4230.4	4540.1	4883.2	5189.0	5441.9	5420.5	5478.0	5524.3
43°	3861.0	3950.8	3906.8	4232.7	4562.6	4858.6	5230.3	5485.4	5471.9	5529.0	5573.8
44°	3888.0	3978.4	3936.7	4254.9	4594.9	4873.0	5268.1	5530.0	5528.8	5574.0	5631.6

REPORT NUMBER: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3926.4	4001.1	3973.3	4274.9	4621.8	4912.6	5317.2	5568.7	5589.1	5625.6	5697.6
46°	3948.0	3920.3	3989.9	4063.4	4481.6	4945.3	5301.9	5598.5	5643.2	5687.4	5767.3
47°	3887.8	3643.5	3932.0	4055.8	4418.8	4965.6	5298.5	5639.2	5698.2	5750.0	5836.6
48°	3644.8	3659.9	3696.9	4084.0	4448.4	4959.6	5337.3	5681.9	5761.2	5816.5	5902.8
49°	3681.8	3679.6	3732.9	4097.2	4493.2	4858.0	5388.7	5720.0	5823.6	5883.0	5969.3
50°	3719.6	3693.6	3771.1	4091.2	4503.1	4866.8	5415.2	5754.0	5877.4	5949.5	6039.3
51°	3755.0	3329.5	3799.7	3844.8	4514.3	4884.1	5431.8	5770.2	5933.3	6020.2	6116.3
52°	3437.9	3338.9	3475.1	3881.3	4337.7	4908.0	5469.8	5738.3	5988.6	6089.0	6191.3
53°	3425.8	3352.3	3475.4	3921.9	4344.4	4952.5	5476.9	5719.6	6039.9	6150.6	6275.7
54°	3434.6	3086.8	3477.1	3959.7	4368.5	4952.1	5479.6	5730.1	6077.4	6214.2	6364.4
55°	3194.0	2947.8	3234.2	3705.5	4378.9	4949.2	5475.7	5751.9	6115.8	6273.4	6454.9
56°	3071.4	2948.4	3121.1	3685.7	4291.7	4915.6	5457.4	5770.2	6157.9	6338.6	6548.5
57°	3073.5	2637.2	3127.7	3700.7	4200.7	4827.6	5442.5	5766.1	6195.3	6404.2	6640.1
58°	2775.2	2551.0	2810.5	3512.3	4249.5	4837.5	5380.9	5753.9	6225.6	6460.5	6731.7
59°	2704.9	2533.3	2754.1	3442.5	4299.0	4825.1	5381.6	5746.1	6251.7	6517.0	6819.2
60°	2628.8	2122.2	2654.7	3443.3	4243.9	4798.2	5315.5	5733.9	6264.9	6581.0	6904.9
61°	2327.4	2106.2	2374.4	3178.5	4121.7	4741.7	5269.7	5697.1	6249.9	6641.5	6995.1
62°	2262.5	1693.9	2284.5	3172.6	4102.6	4689.6	5203.4	5659.5	6198.2	6690.8	7092.5
63°	1930.7	1465.3	1971.9	2968.4	4024.6	4666.2	5133.0	5585.5	6153.2	6735.6	7190.0
64°	1721.6	1236.6	1740.0	2908.1	3950.8	4598.7	5070.2	5529.9	6117.2	6783.7	7279.5
65°	1497.7	1008.3	1505.2	2681.7	3903.8	4505.7	4993.7	5445.2	6090.2	6829.8	7365.1
66°	1273.8	800.8	1270.3	2606.1	3792.5	4525.2	4913.5	5342.1	6060.7	6864.0	7445.5
67°	1048.4	532.5	1034.5	2393.8	3731.2	4540.5	4797.2	5198.6	6000.8	6886.4	7522.5
68°	779.8	264.2	747.2	2188.9	3628.6	4527.7	4685.4	5037.9	5899.0	6895.0	7593.0
69°	546.3	0.5	513.1	1955.7	3532.4	4361.9	4547.7	4741.1	5732.4	6874.6	7645.6
70°	489.2	0.4	439.0	1811.4	3434.7	4222.5	4344.1	4312.8	5485.6	6827.2	7669.4
71°	427.4	0.4	373.7	1713.4	3314.3	4098.1	4054.2	3868.3	5116.7	6756.0	7666.1
72°	359.9	0.4	301.9	1553.3	3173.9	3951.4	3722.7	3491.3	4686.9	6649.4	7634.5
73°	290.8	0.4	228.7	1377.0	3009.1	3750.9	3378.3	3197.6	4264.9	6462.3	7544.9
74°	229.6	0.4	163.7	1200.8	2805.2	3549.8	3044.8	2828.9	3854.6	6209.3	7377.0
75°	166.6	0.5	99.4	1024.2	2588.1	3321.7	2664.9	2216.1	3398.6	5879.6	7126.1
76°	103.7	0.6	56.5	823.5	2292.2	3020.9	2205.5	1414.4	2735.1	5458.2	6756.7
77°	49.8	0.7	26.0	634.6	1894.5	2670.1	1784.2	653.7	1850.7	4944.5	6190.1
78°	36.8	0.9	20.7	427.3	1465.3	2234.4	1362.8	473.7	907.1	4247.1	5304.0
79°	23.9	1.0	15.4	304.4	1036.1	1633.0	941.4	308.6	652.8	3309.5	4158.3
80°	11.1	1.2	10.1	181.6	611.7	1031.6	520.1	143.5	414.2	2121.4	2921.5
81°	9.7	1.4	8.9	59.1	433.8	438.9	113.4	122.9	175.5	1010.6	1633.0
82°	8.6	1.6	8.1	39.9	255.9	272.1	97.5	107.0	153.0	734.4	635.9
83°	7.7	1.8	7.4	31.9	80.9	106.3	83.2	91.4	132.7	467.0	492.4
84°	7.0	2.0	6.8	25.0	69.0	83.8	69.6	76.4	113.1	199.6	369.6
85°	6.4	2.3	6.2	19.3	58.1	66.6	56.5	61.1	94.5	157.8	246.9
86°	5.7	2.5	5.6	16.1	47.0	51.9	44.3	45.8	76.9	127.5	203.7
87°	5.2	2.7	5.1	12.8	34.8	39.3	33.6	30.5	62.0	102.0	156.6
88°	4.8	3.0	4.7	9.6	24.7	27.8	23.7	17.6	46.0	77.2	104.8
89°	4.3	3.2	4.3	7.0	14.6	16.2	13.9	7.6	29.9	60.2	60.8



REPORT NUMBER: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	4143.9	4143.9	4143.9
1°	4147.5	4147.8	4146.9
2°	4152.5	4152.2	4151.7
3°	4159.4	4158.3	4158.1
4°	4167.6	4165.6	4165.1
5°	4176.8	4174.3	4173.3
6°	4187.2	4183.1	4182.6
7°	4199.1	4194.6	4193.5
8°	4213.2	4207.6	4205.6
9°	4228.9	4222.3	4219.8
10°	4246.6	4238.9	4236.6
11°	4266.8	4257.8	4256.2
12°	4289.3	4278.7	4276.9
13°	4313.7	4302.3	4300.7
14°	4339.9	4329.7	4327.3
15°	4370.0	4358.5	4356.1
16°	4402.2	4389.3	4386.7
17°	4437.3	4422.8	4417.9
18°	4473.1	4455.8	4451.3
19°	4510.6	4491.1	4484.5
20°	4549.3	4526.2	4519.4
21°	4589.6	4564.3	4554.1
22°	4630.9	4603.2	4589.7
23°	4674.1	4645.2	4628.9
24°	4716.0	4688.3	4667.9
25°	4758.7	4734.7	4709.9
26°	4803.6	4782.6	4752.9
27°	4849.1	4829.2	4798.7
28°	4891.3	4878.3	4847.2
29°	4932.2	4926.6	4898.0
30°	4976.8	4976.2	4951.5
31°	5022.0	5027.0	5006.0
32°	5066.8	5076.8	5063.4
33°	5115.2	5128.1	5125.0
34°	5161.8	5180.5	5186.6
35°	5209.2	5233.1	5250.7
36°	5258.1	5283.5	5314.3
37°	5307.6	5333.3	5380.3
38°	5355.5	5381.2	5447.9
39°	5402.9	5429.0	5515.1
40°	5452.2	5481.1	5588.0
41°	5503.1	5538.7	5658.7
42°	5555.9	5602.0	5729.9
43°	5611.1	5668.0	5794.7
44°	5672.8	5739.2	5856.6

REPORT NUMBER: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5738.1	5809.7	5915.9
46°	5810.8	5883.9	5972.1
47°	5885.6	5964.1	6025.3
48°	5958.2	6047.6	6077.5
49°	6033.0	6133.4	6132.8
50°	6112.2	6224.6	6190.3
51°	6196.3	6315.6	6250.5
52°	6282.8	6411.4	6311.8
53°	6373.0	6505.9	6379.7
54°	6468.3	6601.3	6454.5
55°	6562.2	6693.5	6527.9
56°	6659.2	6783.7	6602.6
57°	6753.4	6870.6	6674.4
58°	6849.5	6949.0	6744.2
59°	6949.0	7018.8	6812.7
60°	7049.1	7085.3	6879.8
61°	7149.8	7153.8	6936.5
62°	7247.9	7216.3	6985.8
63°	7342.7	7263.7	7033.3
64°	7434.9	7298.6	7095.2
65°	7527.8	7346.7	7159.7
66°	7620.0	7407.3	7198.5
67°	7696.3	7448.8	7203.8
68°	7746.4	7452.1	7196.6
69°	7799.7	7413.9	7112.3
70°	7835.3	7323.6	6834.4
71°	7817.5	7105.7	6290.0
72°	7718.7	6677.0	5587.2
73°	7575.8	6069.0	4900.2
74°	7356.6	5379.9	4226.8
75°	6954.9	4623.7	3226.6
76°	6395.7	3670.6	1924.5
77°	5730.6	2436.4	834.4
78°	4881.4	1205.1	637.2
79°	3690.5	542.2	452.8
80°	2152.8	401.9	268.4
81°	1017.6	279.2	244.3
82°	744.9	245.7	223.4
83°	498.1	219.6	202.4
84°	251.4	193.5	181.1
85°	202.1	167.5	158.8
86°	168.9	143.4	134.6
87°	139.4	121.0	110.5
88°	110.9	99.5	89.7
89°	77.6	77.3	73.8



REPORT NUMBER: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-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: P1436806

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)