

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: P1445072

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

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445072
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS300-SFPM (4000K-180W-T5)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 5
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 45535 (1 lamp)
Luminaire Lumens: 29983.8 lumens
Efficiency: 65.8%
Efficacy: 165.4 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): 181.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

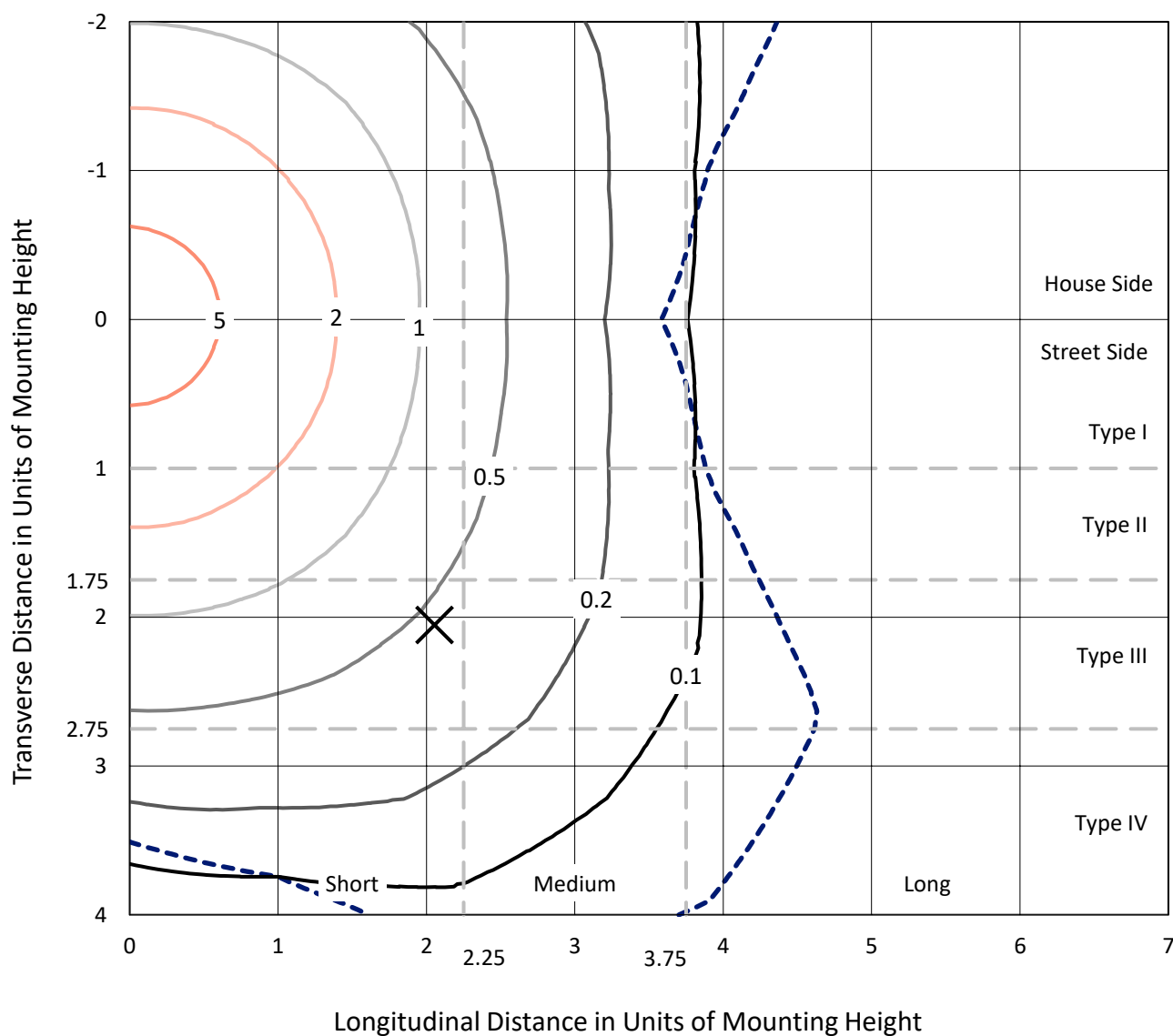
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

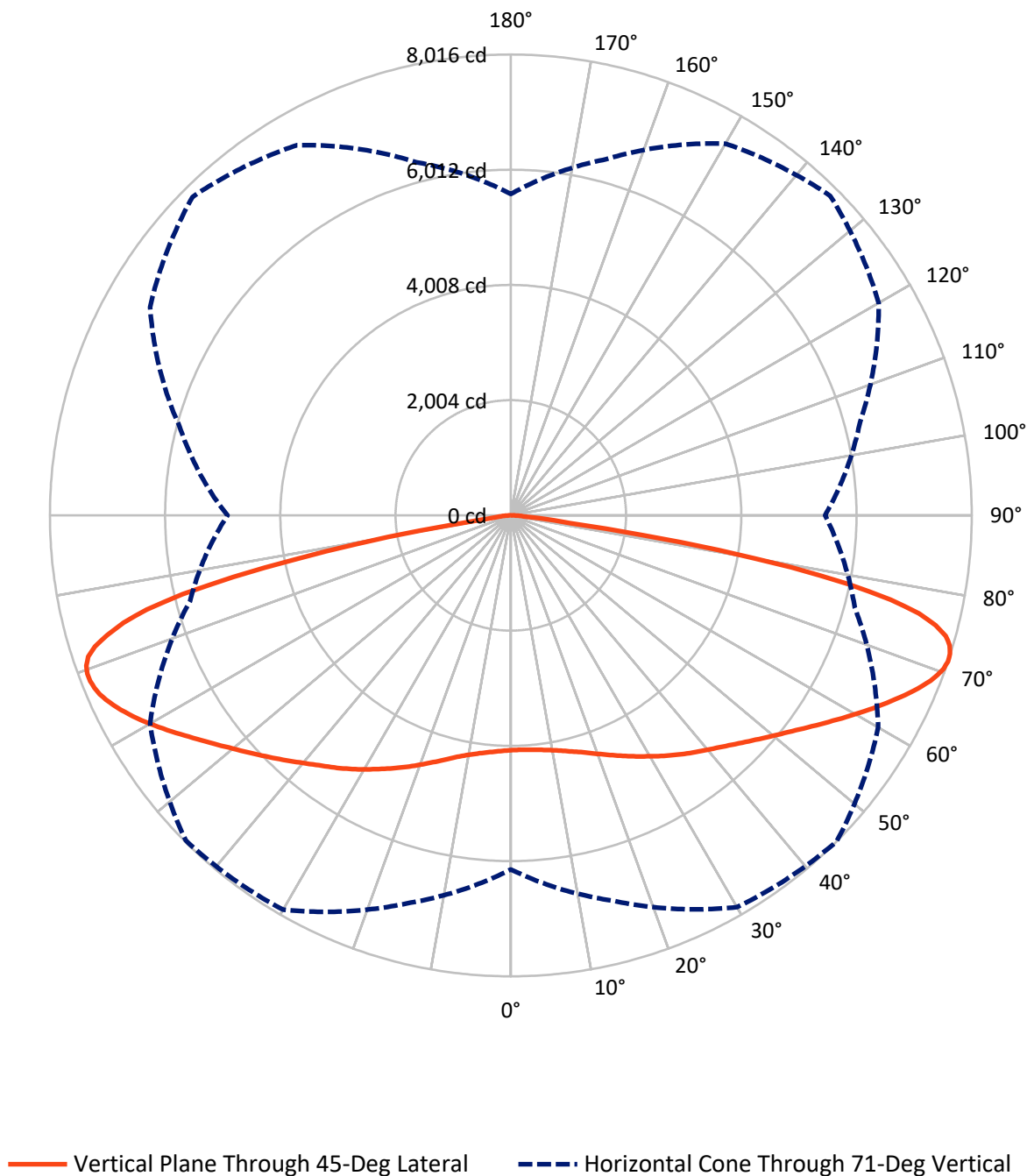


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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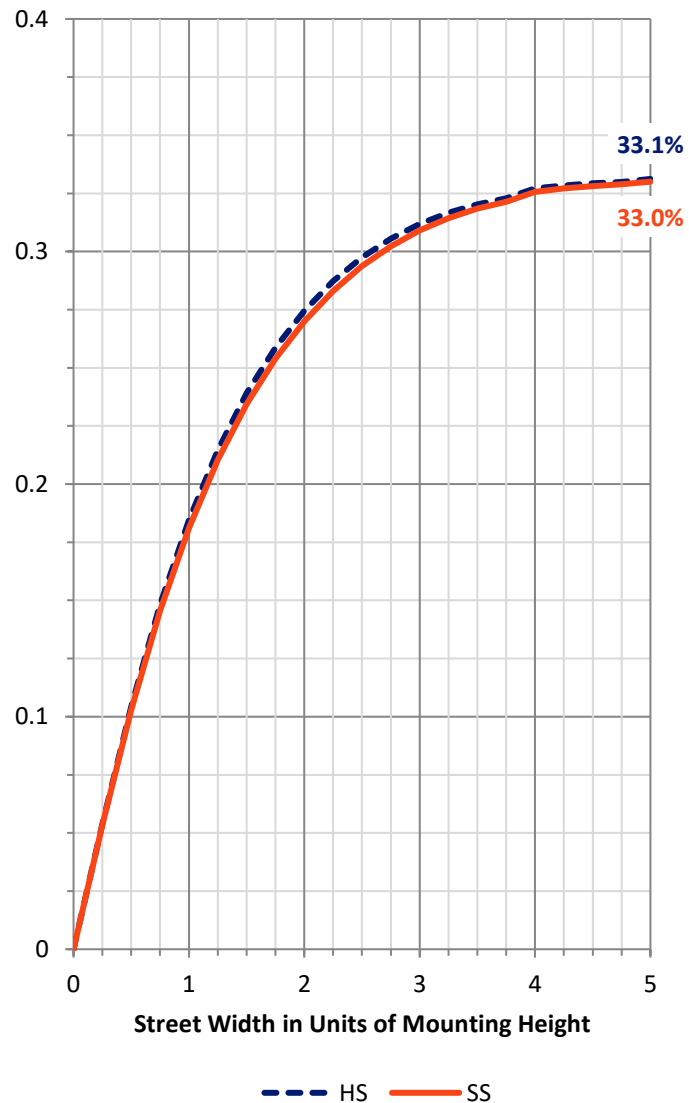
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14995.2	0.0	14995.2
	% Lamp	32.9	0.0	32.9
Street Side	Lumens	14988.6	0.0	14988.6
	% Lamp	32.9	0.0	32.9
Total	Lumens	29983.8	0.0	29983.8
	% Lamp	65.8	0.0	65.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	394.3	1.3	0.9
10°-20°	1230.7	4.1	2.7
20°-30°	2193.3	7.3	4.8
30°-40°	3282.1	10.9	7.2
40°-50°	4492.7	15.0	9.9
50°-60°	5858.3	19.5	12.9
60°-70°	7062.8	23.6	15.5
70°-80°	5161.8	17.2	11.3
80°-90°	307.9	1.0	0.7
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°	29983.8	100.0	65.8
0°-180°	29983.8	100.0	65.8

Coefficient of Utilization



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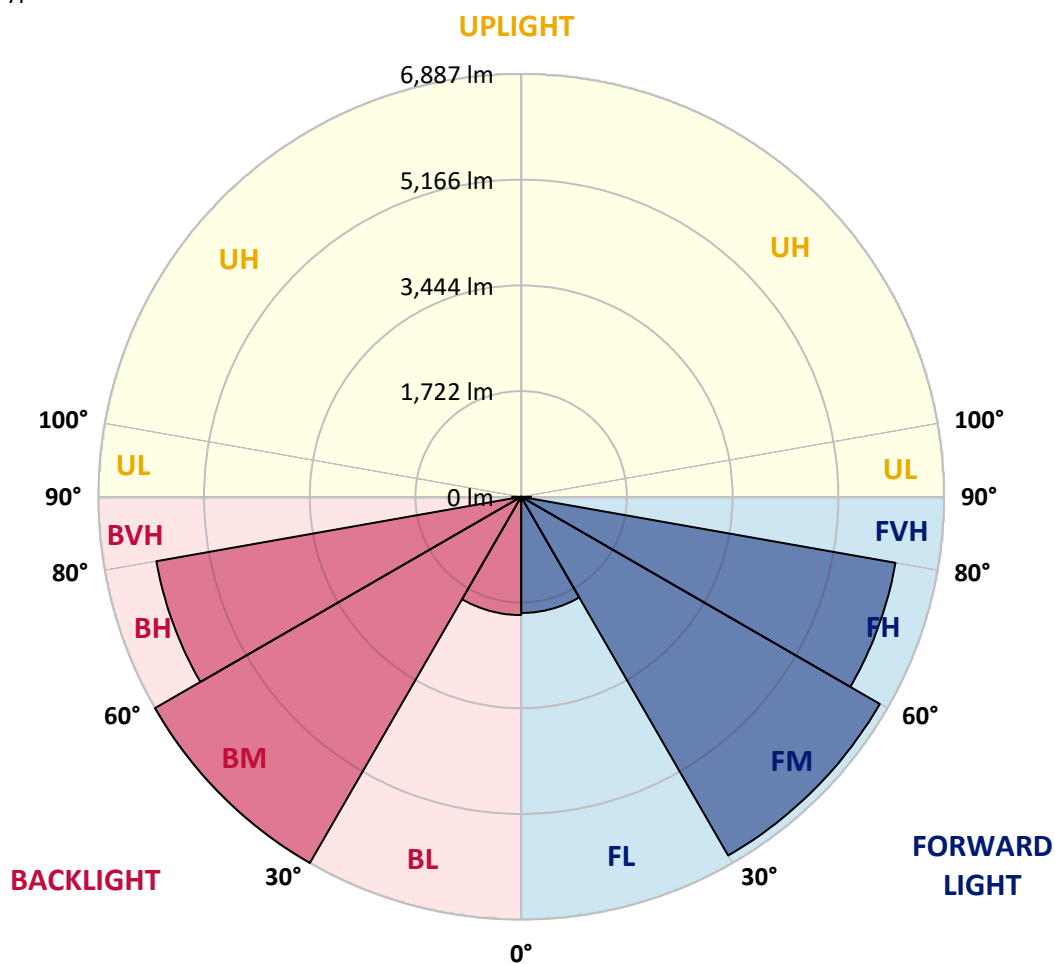
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1891.9	4.2			
FM	(30°-60°)	6745.7	14.8			
FH	(60°-80°)	6190.9	13.6			G3/7500
FVH	(80°-90°)	160.2	0.4			G2/225
BL	(0°-30°)	1926.4	4.2	B3/2500		
BM	(30°-60°)	6887.4	15.1	B4/8500		
BH	(60°-80°)	6033.7	13.3	B5		G3/7500
BVH	(80°-90°)	147.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		15551.2	34.2			

BUG Rating: B5-U0-G3

Type V Short



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

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3
1°	4080.6	4079.4	4079.7	4080.4	4081.0	4082.5	4079.2	4079.2	4079.9	4081.0	4081.5
2°	4080.3	4079.4	4079.4	4080.3	4081.6	4082.7	4079.9	4080.6	4082.0	4084.1	4085.2
3°	4082.7	4080.8	4081.3	4081.6	4084.2	4086.5	4083.6	4085.0	4087.1	4089.6	4091.2
4°	4085.5	4084.0	4084.8	4086.9	4089.4	4091.9	4089.4	4091.2	4094.5	4097.1	4098.7
5°	4089.4	4088.3	4090.2	4092.7	4097.2	4101.2	4099.0	4101.0	4103.3	4106.4	4109.6
6°	4096.1	4093.9	4097.2	4101.4	4107.6	4112.2	4110.5	4112.2	4114.2	4117.1	4121.4
7°	4103.9	4102.9	4105.8	4112.7	4119.3	4123.1	4122.4	4124.9	4126.6	4129.8	4135.1
8°	4113.0	4112.2	4117.4	4124.9	4131.7	4137.6	4136.7	4139.4	4142.5	4145.7	4152.3
9°	4124.7	4123.0	4130.1	4137.9	4147.4	4153.6	4153.0	4155.6	4160.4	4164.6	4171.0
10°	4138.8	4137.8	4145.0	4154.2	4165.7	4172.2	4171.2	4173.3	4179.5	4186.9	4192.6
11°	4156.5	4153.8	4162.7	4173.3	4184.9	4191.0	4191.0	4192.9	4200.1	4210.0	4216.5
12°	4175.6	4172.8	4181.4	4193.6	4205.6	4213.0	4214.0	4216.2	4224.8	4236.4	4243.5
13°	4197.2	4193.5	4201.8	4216.3	4228.5	4237.1	4239.2	4243.0	4252.0	4264.4	4272.8
14°	4221.3	4217.6	4224.0	4240.4	4253.8	4266.2	4268.7	4271.6	4282.0	4294.3	4305.2
15°	4248.9	4243.3	4249.7	4266.0	4282.2	4295.9	4300.2	4304.4	4314.6	4327.0	4338.5
16°	4277.4	4271.2	4278.4	4293.8	4312.9	4328.2	4334.7	4340.4	4348.8	4361.5	4373.5
17°	4307.6	4299.4	4308.8	4323.3	4344.9	4364.0	4372.1	4376.3	4386.0	4398.3	4410.2
18°	4338.2	4330.4	4339.0	4357.3	4378.7	4401.8	4411.4	4416.2	4424.7	4437.6	4449.4
19°	4370.0	4362.1	4373.0	4394.4	4414.4	4440.4	4453.3	4456.9	4465.0	4478.2	4489.1
20°	4403.5	4396.0	4407.8	4431.1	4452.5	4480.1	4496.1	4499.9	4506.7	4519.7	4529.2
21°	4437.3	4431.0	4444.1	4470.0	4491.5	4523.2	4539.4	4546.0	4549.8	4564.2	4570.7
22°	4471.6	4466.4	4482.2	4509.2	4532.6	4566.9	4583.7	4593.3	4595.6	4608.3	4611.6
23°	4508.1	4504.4	4521.3	4550.8	4576.9	4611.9	4627.2	4639.3	4642.8	4653.2	4654.8
24°	4545.8	4544.3	4560.9	4592.4	4620.8	4654.1	4668.4	4684.9	4690.3	4698.1	4696.8
25°	4586.5	4585.6	4602.6	4635.9	4665.2	4696.9	4708.9	4730.1	4737.3	4744.0	4740.8
26°	4627.6	4629.7	4644.6	4679.7	4708.5	4741.6	4751.2	4775.5	4785.3	4790.0	4785.4
27°	4672.4	4675.0	4688.9	4724.0	4751.9	4787.2	4795.3	4823.0	4833.1	4835.2	4829.8
28°	4719.1	4722.1	4733.8	4768.3	4795.8	4833.7	4842.5	4869.0	4880.5	4882.2	4875.3
29°	4767.5	4769.1	4780.4	4814.2	4840.2	4880.5	4891.7	4917.6	4930.3	4927.8	4921.6
30°	4820.0	4818.2	4827.1	4860.0	4886.7	4928.9	4945.0	4968.5	4979.6	4975.0	4969.4
31°	4874.3	4867.2	4875.7	4909.0	4932.8	4978.8	4998.3	5020.1	5032.1	5024.8	5018.1
32°	4929.1	4916.0	4922.9	4957.3	4980.7	5025.7	5050.2	5070.3	5083.0	5075.6	5070.0
33°	4988.1	4964.8	4970.7	5003.9	5029.6	5073.1	5102.7	5119.6	5132.9	5127.2	5118.7
34°	5049.8	5014.6	5019.2	5052.1	5077.0	5120.6	5156.2	5168.6	5180.2	5175.1	5169.9
35°	5112.2	5065.5	5070.6	5103.1	5123.5	5169.0	5210.6	5217.9	5226.7	5225.8	5223.0
36°	5174.6	5115.0	5119.9	5151.4	5170.4	5216.0	5265.8	5266.2	5275.2	5278.0	5276.0
37°	5239.4	5161.8	5169.6	5198.1	5217.9	5259.2	5322.3	5314.4	5325.9	5330.4	5331.5
38°	5305.1	5207.2	5217.3	5248.0	5265.9	5303.7	5379.8	5360.8	5376.1	5384.3	5386.1
39°	5371.0	5253.5	5265.0	5296.6	5313.7	5351.2	5441.7	5409.2	5426.0	5438.7	5439.9
40°	5439.3	5302.9	5313.1	5346.4	5362.8	5400.8	5508.3	5461.1	5478.6	5496.2	5496.6
41°	5510.0	5356.4	5364.7	5398.3	5415.3	5454.7	5573.3	5515.3	5533.6	5552.9	5552.2
42°	5578.4	5416.8	5419.1	5453.9	5470.0	5511.3	5634.7	5573.9	5589.4	5612.5	5611.1
43°	5641.8	5481.9	5476.1	5513.0	5530.7	5568.8	5697.2	5632.7	5650.1	5674.4	5672.4
44°	5701.1	5550.4	5537.1	5574.7	5593.7	5631.0	5760.1	5692.5	5712.8	5739.5	5736.2

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

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5759.6	5617.8	5600.9	5638.8	5656.9	5696.1	5823.2	5754.3	5775.9	5806.4	5802.6
46°	5814.7	5689.5	5669.0	5706.9	5724.9	5763.4	5882.3	5821.5	5843.2	5875.2	5872.0
47°	5866.4	5765.4	5742.4	5775.2	5793.7	5834.0	5937.6	5891.4	5911.8	5946.8	5942.4
48°	5917.9	5845.6	5817.5	5847.2	5862.6	5904.1	5992.3	5963.0	5982.5	6020.8	6017.2
49°	5972.0	5929.4	5894.9	5922.3	5936.4	5975.7	6044.2	6033.3	6052.3	6094.2	6094.1
50°	6029.2	6017.9	5975.5	5998.7	6014.7	6051.0	6094.1	6106.0	6125.7	6170.6	6173.7
51°	6089.6	6108.0	6060.6	6078.7	6090.0	6125.1	6141.8	6178.2	6199.2	6248.7	6255.3
52°	6149.7	6200.7	6148.0	6163.1	6171.9	6201.5	6185.3	6252.0	6275.1	6328.9	6339.1
53°	6218.3	6296.6	6237.7	6254.5	6252.7	6272.8	6227.3	6321.2	6351.7	6412.2	6426.2
54°	6291.1	6390.6	6333.0	6346.7	6335.1	6339.7	6271.2	6387.9	6432.1	6496.7	6514.0
55°	6365.0	6482.8	6431.9	6443.3	6417.6	6404.5	6314.1	6451.1	6509.3	6586.1	6603.3
56°	6439.0	6573.0	6532.8	6543.7	6502.1	6470.6	6358.0	6512.9	6586.1	6677.0	6691.5
57°	6511.6	6658.6	6635.5	6644.8	6585.5	6535.1	6401.2	6571.3	6665.2	6773.8	6778.4
58°	6579.4	6740.2	6736.3	6752.1	6669.8	6592.1	6443.8	6625.0	6741.5	6871.9	6859.4
59°	6650.7	6812.0	6841.0	6859.4	6752.7	6642.1	6481.1	6675.0	6816.6	6972.7	6933.2
60°	6717.8	6881.8	6944.4	6970.7	6834.4	6686.2	6512.1	6719.2	6890.4	7075.4	7003.0
61°	6775.1	6941.7	7053.7	7083.3	6912.1	6721.1	6536.2	6754.1	6966.1	7180.1	7077.4
62°	6823.9	6993.7	7161.0	7194.6	6991.8	6744.8	6552.7	6783.0	7041.2	7282.2	7155.1
63°	6873.9	7043.8	7268.3	7306.5	7070.8	6763.3	6564.4	6807.4	7113.6	7382.3	7227.5
64°	6936.5	7091.9	7372.4	7419.8	7142.6	6773.2	6569.2	6822.5	7184.7	7481.0	7295.3
65°	7004.9	7148.5	7478.4	7535.0	7214.3	6779.7	6569.7	6833.7	7253.8	7570.6	7358.5
66°	7046.4	7209.1	7578.5	7644.3	7280.8	6782.4	6551.5	6835.7	7315.7	7654.9	7422.4
67°	7053.7	7256.5	7664.1	7745.7	7333.5	6769.2	6515.3	6819.2	7368.4	7726.0	7477.1
68°	7049.1	7271.6	7744.4	7843.2	7384.9	6721.8	6426.3	6780.4	7411.9	7787.2	7518.6
69°	6972.0	7249.2	7818.8	7924.2	7412.5	6634.9	6231.8	6696.8	7439.5	7830.7	7526.5
70°	6699.4	7167.6	7866.2	7984.8	7408.6	6460.8	5923.1	6541.2	7436.9	7858.3	7508.7
71°	6157.1	6941.7	7866.2	8015.7	7375.7	6192.0	5464.8	6287.7	7388.8	7857.0	7465.2
72°	5448.2	6513.6	7798.4	8007.2	7298.6	5832.4	4976.6	5917.1	7292.0	7822.8	7355.3
73°	4762.7	5918.6	7664.1	7961.1	7170.2	5406.1	4539.4	5460.4	7131.4	7724.0	7174.8
74°	4101.0	5254.4	7444.8	7850.4	6968.1	4985.0	4175.4	4987.2	6911.4	7548.8	6905.5
75°	3121.2	4517.0	7106.3	7631.2	6726.4	4568.6	3751.9	4544.5	6618.4	7279.5	6474.5
76°	1819.0	3557.5	6594.0	7302.6	6413.0	4041.4	3008.8	4076.6	6258.2	6912.1	5888.1
77°	715.7	2262.0	5906.1	6765.3	5993.9	3238.2	2118.1	3342.7	5808.2	6363.6	5184.2
78°	522.2	1026.7	5049.2	5986.3	5377.4	2163.1	1227.3	2368.6	5232.6	5579.7	4320.7
79°	346.9	729.3	3891.9	4952.8	4517.7	1075.4	344.7	1394.5	4415.6	4520.0	3165.9
80°	171.6	455.7	2410.8	3669.9	3344.7	765.3	195.5	428.9	3299.8	3292.4	2247.3
81°	152.2	182.2	1141.6	2325.8	1954.7	472.6	172.5	214.0	2314.3	2314.8	1328.6
82°	134.6	157.0	822.1	1042.0	838.7	179.8	149.6	177.0	1328.9	1337.1	414.5
83°	117.5	134.4	507.4	764.4	604.9	146.0	126.7	152.5	351.2	360.3	224.1
84°	99.8	113.0	192.6	494.3	385.0	123.3	108.6	128.1	207.3	230.1	170.8
85°	81.4	92.1	145.4	224.3	165.1	101.2	90.1	105.9	162.7	191.8	118.1
86°	60.3	72.2	111.2	177.8	121.5	80.2	71.4	84.4	118.1	152.9	83.6
87°	41.0	53.6	84.2	132.5	93.2	61.3	52.0	65.4	89.4	114.0	58.6
88°	21.7	35.1	58.1	82.3	66.7	42.7	33.4	47.1	64.0	71.3	36.2
89°	8.9	16.5	31.1	43.3	36.4	24.0	23.5	32.7	44.1	49.1	25.6

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CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072
CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3
1°	4083.0	4084.6	4085.6	4086.3	4086.7	4087.3	4087.5	4083.5	4083.3	4082.9	4081.6
2°	4086.7	4090.0	4091.5	4093.3	4093.2	4094.2	4093.7	4090.6	4089.0	4087.1	4084.5
3°	4094.0	4097.4	4100.2	4101.5	4102.2	4102.5	4102.0	4098.8	4095.8	4092.9	4089.0
4°	4102.7	4106.6	4109.7	4111.7	4113.0	4113.5	4111.9	4106.9	4104.1	4100.8	4095.6
5°	4112.4	4117.0	4120.7	4123.9	4125.2	4125.1	4122.8	4117.4	4112.8	4109.0	4103.2
6°	4123.9	4129.6	4133.4	4136.9	4138.7	4138.4	4136.2	4129.9	4124.9	4118.7	4111.2
7°	4138.6	4144.3	4148.4	4152.5	4154.2	4154.0	4150.9	4145.0	4138.2	4131.4	4121.7
8°	4155.9	4161.0	4165.8	4171.1	4171.9	4171.7	4168.7	4161.2	4154.2	4146.8	4134.6
9°	4176.1	4180.6	4185.9	4191.2	4192.5	4190.6	4186.4	4179.1	4172.2	4164.4	4150.0
10°	4196.9	4201.9	4207.0	4213.8	4215.0	4212.3	4208.2	4201.4	4193.0	4182.8	4167.7
11°	4222.0	4227.8	4232.7	4238.6	4241.0	4238.7	4233.7	4227.5	4218.5	4204.9	4188.2
12°	4249.8	4255.8	4260.9	4266.2	4270.3	4268.6	4263.2	4258.1	4247.5	4231.7	4210.3
13°	4280.2	4286.5	4290.9	4297.1	4301.9	4300.9	4295.1	4289.8	4278.6	4261.6	4235.9
14°	4311.7	4318.1	4323.4	4330.2	4336.4	4336.7	4329.0	4322.7	4311.0	4292.5	4264.1
15°	4345.5	4353.0	4357.2	4366.6	4373.7	4372.9	4365.4	4359.2	4346.0	4324.9	4296.3
16°	4382.5	4389.4	4394.9	4404.9	4415.5	4413.3	4404.4	4399.9	4383.9	4360.1	4330.1
17°	4420.1	4427.4	4433.4	4445.4	4457.5	4453.7	4445.5	4441.3	4425.1	4398.6	4365.3
18°	4458.4	4465.0	4472.0	4486.8	4500.5	4496.3	4489.0	4485.0	4466.5	4437.8	4401.9
19°	4498.6	4504.1	4511.9	4529.4	4544.5	4539.7	4533.1	4529.4	4509.4	4480.0	4440.0
20°	4538.9	4542.7	4553.5	4571.8	4590.1	4585.5	4579.6	4575.1	4554.2	4521.9	4479.4
21°	4579.6	4582.7	4597.1	4617.2	4638.9	4632.7	4627.9	4622.8	4602.5	4564.9	4521.0
22°	4620.3	4623.4	4639.9	4661.2	4686.3	4681.4	4677.9	4668.2	4649.5	4608.4	4563.2
23°	4662.3	4664.6	4683.9	4708.6	4734.4	4729.6	4727.4	4713.4	4697.1	4655.6	4607.7
24°	4705.5	4708.5	4729.5	4754.0	4781.6	4780.6	4776.4	4757.5	4743.9	4703.3	4651.8
25°	4750.1	4754.0	4776.6	4802.1	4828.9	4831.5	4824.2	4803.0	4791.5	4749.3	4696.3
26°	4795.5	4802.1	4825.4	4851.5	4876.5	4883.2	4875.3	4849.2	4839.1	4794.7	4739.2
27°	4842.6	4851.0	4875.7	4899.6	4922.9	4934.3	4925.3	4896.3	4888.2	4841.3	4783.5
28°	4891.8	4903.6	4926.6	4947.6	4972.5	4987.0	4976.9	4948.0	4937.6	4888.1	4831.0
29°	4942.1	4957.8	4979.6	4995.6	5022.1	5039.0	5029.6	5003.9	4987.8	4935.5	4878.2
30°	4993.0	5013.0	5032.1	5044.8	5072.8	5090.3	5083.6	5060.2	5039.6	4982.1	4926.2
31°	5043.7	5070.9	5084.6	5095.9	5124.8	5140.2	5137.2	5116.9	5090.3	5030.8	4975.0
32°	5095.0	5130.1	5138.0	5146.8	5175.9	5190.9	5187.4	5168.2	5138.7	5078.5	5026.9
33°	5146.0	5191.3	5190.7	5197.3	5226.6	5238.8	5237.7	5219.9	5184.9	5127.8	5078.2
34°	5199.4	5251.2	5242.1	5249.5	5277.0	5285.3	5284.9	5271.8	5231.5	5175.4	5129.3
35°	5251.5	5314.2	5293.9	5301.8	5327.1	5331.5	5332.0	5324.6	5274.3	5223.4	5179.7
36°	5305.3	5378.0	5346.6	5354.1	5376.2	5378.7	5375.5	5377.6	5314.6	5269.6	5228.9
37°	5357.8	5440.7	5397.5	5407.5	5425.3	5427.3	5419.4	5435.6	5358.9	5317.1	5279.4
38°	5408.1	5504.5	5446.2	5459.9	5477.7	5476.3	5465.7	5497.5	5405.3	5363.9	5331.1
39°	5458.4	5571.0	5496.9	5511.5	5534.4	5527.7	5512.4	5562.0	5452.8	5415.7	5381.7
40°	5513.2	5639.6	5552.0	5566.7	5591.9	5579.7	5563.9	5628.8	5504.1	5469.2	5432.7
41°	5571.3	5706.0	5612.9	5623.2	5650.4	5635.4	5616.2	5699.7	5562.1	5525.7	5488.1
42°	5630.6	5771.9	5675.3	5682.9	5713.0	5692.8	5676.1	5770.7	5624.8	5582.4	5548.6
43°	5690.3	5836.7	5739.6	5745.9	5777.1	5751.8	5744.3	5839.0	5693.8	5643.1	5610.7
44°	5756.1	5899.1	5806.4	5810.4	5842.7	5814.2	5813.6	5900.0	5763.1	5705.4	5676.1

REPORT NUMBER: P1445072

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	5824.3	5961.0	5875.9	5877.3	5910.9	5880.8	5885.1	5956.0	5832.4	5774.4	5744.6
46°	5899.2	6024.2	5950.2	5947.9	5977.0	5951.4	5952.8	6012.5	5901.8	5847.0	5816.1
47°	5976.9	6086.1	6030.5	6021.2	6047.6	6025.8	6025.7	6067.1	5973.8	5922.9	5889.1
48°	6061.2	6141.4	6111.0	6095.0	6117.9	6102.8	6101.2	6116.5	6047.8	5997.6	5964.2
49°	6145.6	6198.0	6194.6	6169.9	6192.5	6180.3	6177.8	6161.5	6124.2	6072.2	6041.7
50°	6229.3	6256.4	6278.6	6250.2	6270.0	6259.2	6255.5	6205.9	6200.8	6147.1	6122.9
51°	6313.5	6317.6	6362.4	6329.9	6349.0	6334.1	6329.6	6250.5	6277.4	6224.8	6208.0
52°	6398.7	6376.7	6447.4	6416.2	6433.5	6411.2	6403.0	6295.9	6346.8	6303.9	6294.9
53°	6484.7	6433.2	6532.4	6501.7	6519.0	6488.8	6470.5	6339.6	6414.2	6382.7	6385.7
54°	6567.1	6488.4	6611.8	6590.8	6607.9	6568.4	6533.4	6384.1	6479.9	6463.1	6480.9
55°	6642.8	6543.7	6684.3	6680.3	6699.4	6644.8	6590.1	6425.5	6539.8	6537.7	6578.6
56°	6705.3	6595.4	6746.8	6769.2	6793.6	6721.1	6641.5	6465.1	6593.4	6616.4	6679.7
57°	6758.0	6646.1	6804.1	6860.7	6893.7	6794.9	6690.2	6502.1	6638.8	6695.5	6782.4
58°	6805.4	6694.1	6854.1	6941.1	6992.4	6867.3	6732.3	6536.8	6679.7	6767.9	6884.4
59°	6849.5	6739.6	6899.6	7013.5	7092.5	6938.4	6769.2	6561.4	6715.2	6841.0	6987.2
60°	6889.7	6779.7	6937.1	7087.9	7197.2	7004.9	6797.5	6579.0	6743.5	6919.3	7093.8
61°	6921.3	6816.0	6966.1	7167.6	7296.6	7070.1	6819.2	6598.0	6763.9	6994.4	7203.1
62°	6944.4	6852.8	6991.1	7244.6	7394.8	7138.6	6832.4	6611.2	6781.7	7066.2	7313.1
63°	6970.7	6887.1	7017.5	7313.1	7487.0	7207.8	6842.3	6613.1	6794.9	7138.6	7423.1
64°	6995.1	6921.3	7047.7	7371.7	7577.8	7271.0	6845.6	6606.6	6800.8	7206.4	7529.8
65°	7017.5	6927.9	7067.5	7425.7	7660.1	7331.5	6838.3	6581.4	6793.6	7267.7	7627.9
66°	7026.0	6881.8	7060.9	7483.0	7733.9	7385.5	6814.6	6524.1	6771.8	7321.7	7720.1
67°	7004.9	6825.8	7030.0	7526.5	7796.4	7417.8	6758.7	6427.3	6713.2	7367.1	7808.3
68°	6966.1	6733.0	6985.8	7557.4	7838.6	7421.1	6677.7	6245.4	6617.1	7393.4	7889.3
69°	6880.5	6515.8	6887.1	7553.5	7862.3	7396.1	6542.8	5915.0	6452.9	7382.9	7948.5
70°	6709.3	6144.1	6690.2	7515.9	7862.9	7341.4	6316.0	5440.8	6173.7	7332.9	7986.7
71°	6412.0	5588.3	6358.0	7434.3	7831.3	7244.0	5962.3	4926.1	5777.3	7244.0	7994.6
72°	5934.5	4904.4	5843.1	7290.7	7749.7	7111.0	5505.6	4513.5	5315.3	7111.0	7961.7
73°	5288.1	4186.5	5207.8	7085.3	7583.1	6911.4	5045.3	4167.6	4883.4	6889.7	7864.3
74°	4557.2	3466.0	4491.5	6759.3	7319.7	6648.0	4619.6	3727.6	4457.4	6609.2	7678.6
75°	3783.1	2562.9	3679.3	6257.8	6990.5	6317.6	4130.3	2927.4	3946.0	6264.9	7393.4
76°	2906.1	1621.1	2779.8	5624.4	6537.4	5891.5	3401.8	1852.8	3162.7	5832.1	6970.7
77°	2068.0	680.5	1983.0	4863.9	5870.3	5310.5	2399.3	838.1	2132.1	5271.7	6316.2
78°	1229.9	282.0	1186.3	3912.6	4943.6	4517.4	1396.8	611.4	1058.2	4511.7	5334.2
79°	406.1	180.6	391.3	2721.6	3824.1	3472.0	398.9	391.7	748.8	3444.7	4107.6
80°	212.2	154.0	211.8	1743.5	2717.5	2449.1	214.4	172.0	465.7	2110.1	2782.9
81°	177.6	127.5	176.5	765.8	1610.8	1426.1	181.6	148.7	182.7	939.3	1440.0
82°	143.0	108.5	141.1	314.0	528.1	419.9	158.6	130.1	151.2	671.0	496.2
83°	108.5	91.1	106.1	244.9	266.6	230.8	135.7	111.6	129.5	422.3	364.0
84°	87.9	75.3	85.6	175.7	216.4	188.3	112.7	92.9	107.5	173.6	233.4
85°	67.6	57.6	64.9	107.3	176.0	145.8	91.6	73.2	86.1	129.7	195.2
86°	48.7	39.0	46.1	76.9	135.6	103.3	71.8	54.8	66.5	99.8	154.2
87°	34.5	27.0	32.6	51.4	95.4	76.5	53.4	36.4	47.7	73.9	105.7
88°	20.3	15.1	19.2	35.8	65.1	52.3	36.8	18.1	28.9	59.6	53.5
89°	6.1	3.3	5.9	20.2	34.8	36.3	20.3	5.8	10.1	45.3	40.7

REPORT NUMBER: P1445072

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072
CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	4081.3	4081.3	4081.3
1°	4080.8	4079.4	4080.6
2°	4082.3	4080.3	4080.3
3°	4085.2	4082.9	4082.7
4°	4090.2	4087.1	4085.5
5°	4096.9	4091.9	4089.4
6°	4104.5	4098.5	4096.1
7°	4114.1	4107.0	4103.9
8°	4124.7	4116.5	4113.0
9°	4137.8	4128.8	4124.7
10°	4152.7	4143.6	4138.8
11°	4171.6	4160.2	4156.5
12°	4192.4	4180.4	4175.6
13°	4214.3	4201.4	4197.2
14°	4238.5	4225.5	4221.3
15°	4266.6	4253.0	4248.9
16°	4297.9	4282.6	4277.4
17°	4331.1	4313.7	4307.6
18°	4365.5	4345.3	4338.2
19°	4402.3	4379.0	4370.0
20°	4440.2	4413.7	4403.5
21°	4479.7	4450.1	4437.3
22°	4519.7	4487.5	4471.6
23°	4560.8	4528.1	4508.1
24°	4602.5	4570.1	4545.8
25°	4645.4	4614.4	4586.5
26°	4689.1	4659.8	4627.6
27°	4733.8	4705.8	4672.4
28°	4780.0	4752.3	4719.1
29°	4826.2	4799.8	4767.5
30°	4873.4	4848.4	4820.0
31°	4921.4	4898.1	4874.3
32°	4970.8	4945.2	4929.1
33°	5021.2	4995.3	4988.1
34°	5071.5	5046.5	5049.8
35°	5123.6	5097.6	5112.2
36°	5176.1	5146.6	5174.6
37°	5225.7	5194.0	5239.4
38°	5277.6	5240.1	5305.1
39°	5329.0	5286.8	5371.0
40°	5380.3	5336.9	5439.3
41°	5433.0	5393.8	5510.0
42°	5489.7	5454.8	5578.4
43°	5549.6	5519.8	5641.8
44°	5615.2	5588.3	5701.1

REPORT NUMBER: P1445072

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5683.7	5659.1	5759.6
46°	5758.8	5732.0	5814.7
47°	5835.4	5811.4	5866.4
48°	5912.2	5892.4	5917.9
49°	5993.5	5978.2	5972.0
50°	6074.9	6067.8	6029.2
51°	6162.5	6159.4	6089.6
52°	6252.4	6255.3	6149.7
53°	6343.0	6347.7	6218.3
54°	6440.5	6443.3	6291.1
55°	6537.9	6535.9	6365.0
56°	6637.5	6627.0	6439.0
57°	6738.3	6714.6	6511.6
58°	6841.6	6792.9	6579.4
59°	6947.0	6863.4	6650.7
60°	7055.6	6931.2	6717.8
61°	7161.7	6999.7	6775.1
62°	7267.7	7066.2	6823.9
63°	7375.0	7119.5	6873.9
64°	7479.7	7160.3	6936.5
65°	7585.1	7210.4	7004.9
66°	7686.5	7278.9	7046.4
67°	7776.0	7324.3	7053.7
68°	7839.2	7329.6	7049.1
69°	7902.5	7292.7	6972.0
70°	7939.3	7203.8	6699.4
71°	7918.3	6984.5	6157.1
72°	7811.6	6549.1	5448.2
73°	7661.4	5935.6	4762.7
74°	7429.7	5250.3	4101.0
75°	6997.7	4484.0	3121.2
76°	6406.1	3512.6	1819.0
77°	5693.2	2264.3	715.7
78°	4780.2	1065.1	522.2
79°	3494.3	755.2	346.9
80°	1935.8	473.1	171.6
81°	860.2	191.0	152.2
82°	619.7	157.1	134.6
83°	397.2	134.5	117.5
84°	174.8	112.5	99.8
85°	133.5	90.2	81.4
86°	103.7	69.5	60.3
87°	76.3	50.8	41.0
88°	61.3	32.0	21.7
89°	46.6	13.3	8.9

REPORT NUMBER: P1445072

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072

CATALOG NUMBER: XAS300-SFPM (4000K-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: P1445072

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)