

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: P1436805

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

Issue Date: 3/25/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1436805  
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)  
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**

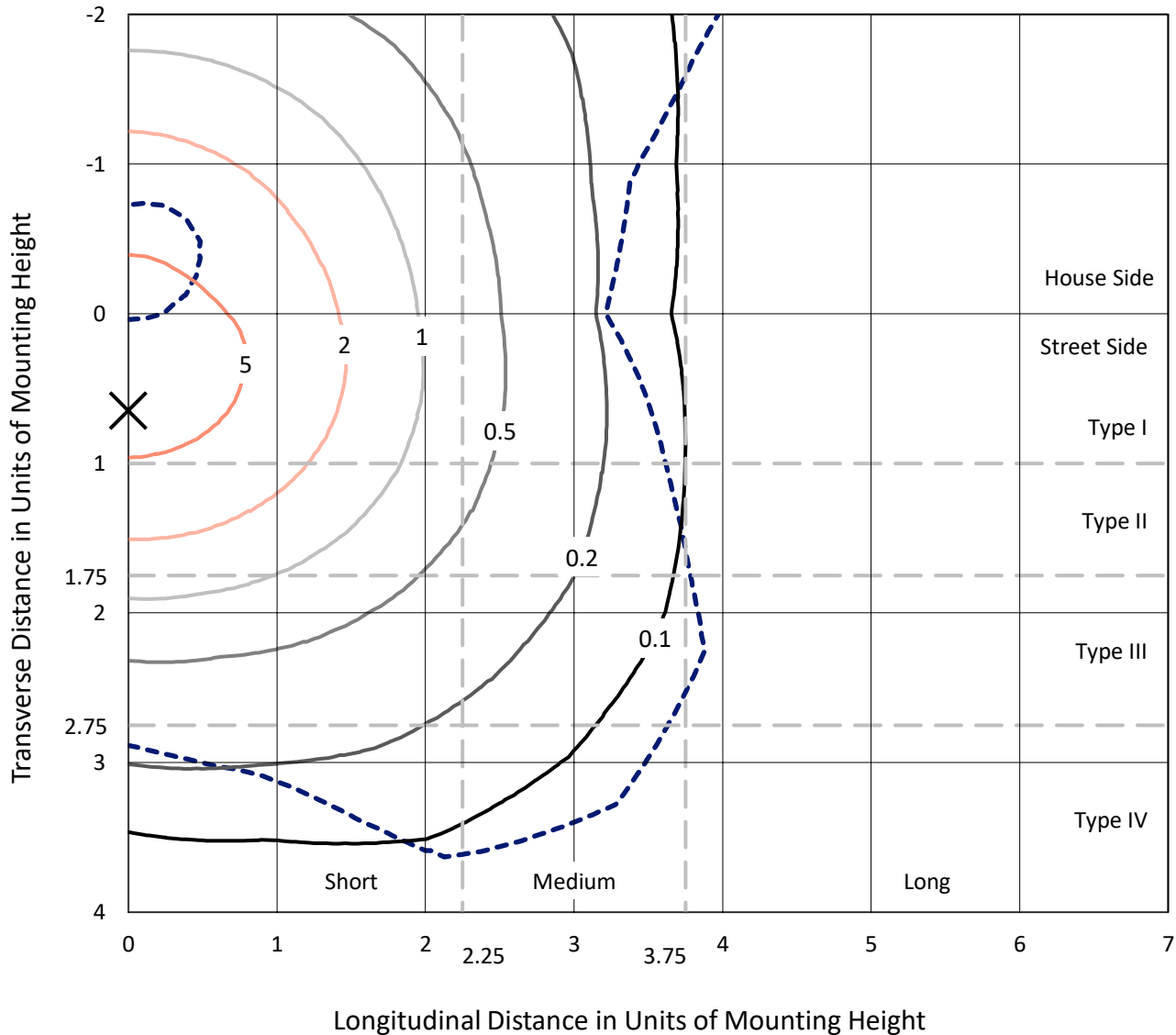
Lumens per Lamp: 46561 (1 lamp)  
Luminaire Lumens: 29983.8 lumens  
Efficiency: 64.4%  
Efficacy: 165.4 lumens/watt  
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

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

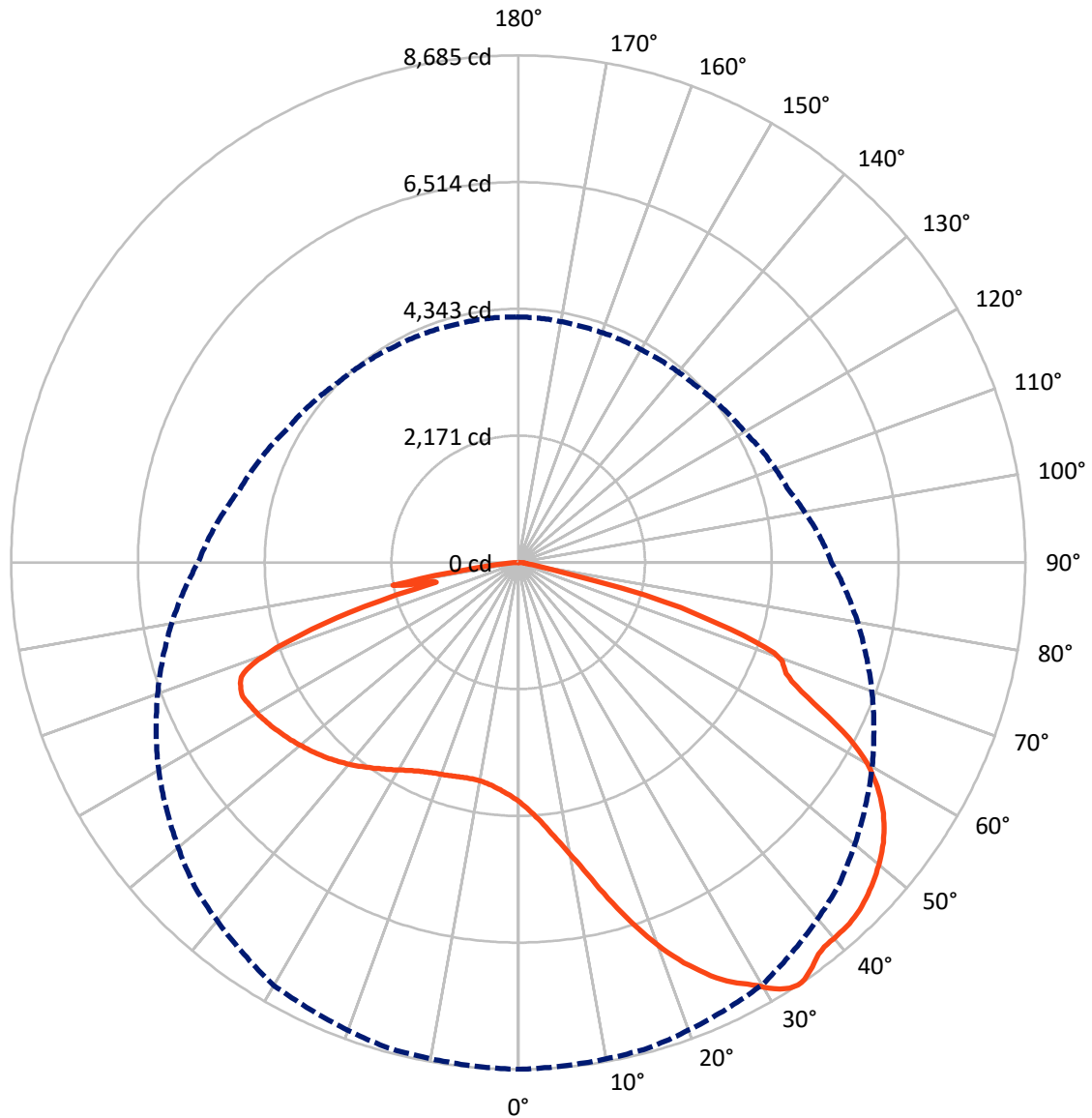
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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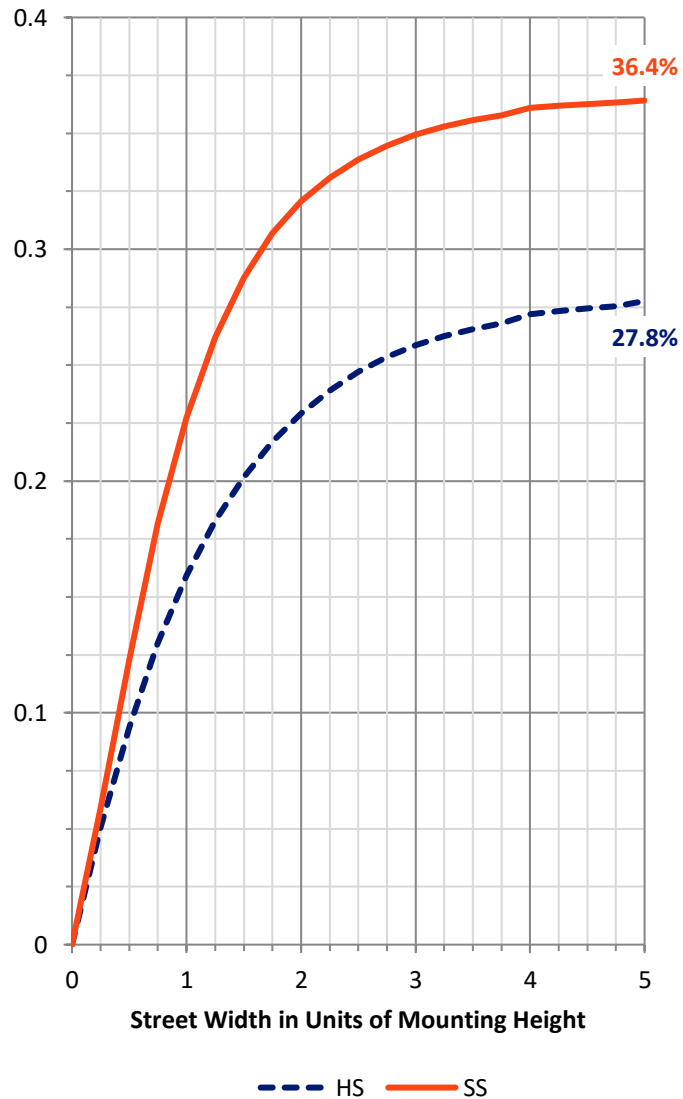
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13048.0	0.0	13048.0
	% Lamp	28.0	0.0	28.0
<b>Street Side</b>	Lumens	16935.8	0.0	16935.8
	% Lamp	36.4	0.0	36.4
<b>Total</b>	Lumens	29983.8	0.0	29983.8
	% Lamp	64.4	0.0	64.4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	405.0	1.4	0.9
10°-20°	1340.0	4.5	2.9
20°-30°	2530.3	8.4	5.4
30°-40°	3813.1	12.7	8.2
40°-50°	4928.9	16.4	10.6
50°-60°	5903.4	19.7	12.7
60°-70°	6271.0	20.9	13.5
70°-80°	4297.1	14.3	9.2
80°-90°	495.0	1.7	1.1
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	64.4
0°-180°	29983.8	100.0	64.4

**Coefficient of Utilization**



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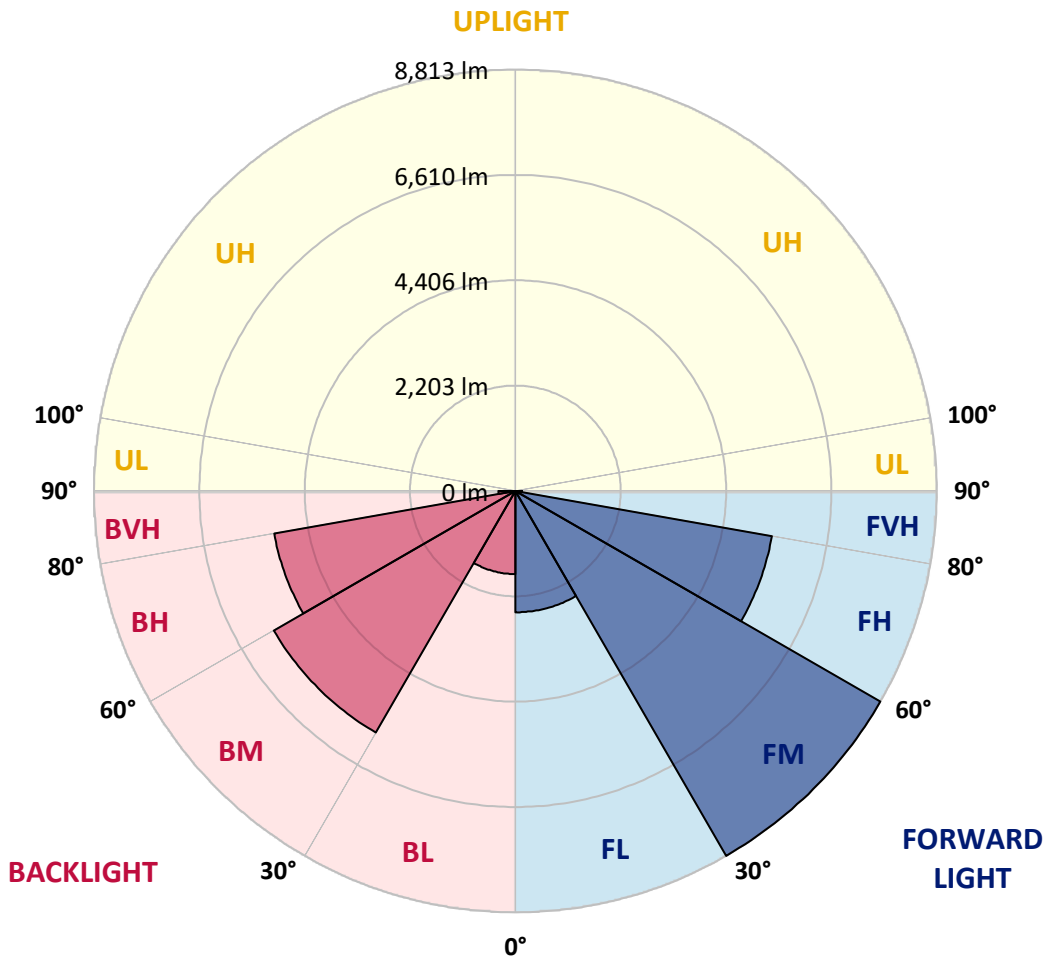
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5)

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2537.5	5.4			
FM (30°-60°)	8812.9	18.9			
FH (60°-80°)	5448.1	11.7			G3/7500
FVH (80°-90°)	137.2	0.3			G2/225
BL (0°-30°)	1737.7	3.7	B3/2500		
BM (30°-60°)	5832.5	12.5	B4/8500		
BH (60°-80°)	5120.1	11.0	B5		G5
BVH (80°-90°)	357.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	16577.2	35.6			

**BUG Rating: B5-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5
1°	4177.3	4175.9	4171.6	4165.3	4153.9	4139.5	4110.7	4095.8	4083.0	4072.3	4065.2
2°	4246.5	4242.1	4230.7	4212.5	4186.1	4156.9	4112.6	4083.5	4057.1	4036.4	4022.4
3°	4325.0	4317.1	4297.0	4263.8	4223.0	4177.4	4118.1	4074.2	4035.8	4006.5	3986.3
4°	4412.8	4400.9	4370.7	4323.8	4265.1	4202.4	4126.0	4067.9	4018.9	3981.1	3955.4
5°	4509.6	4493.3	4450.6	4389.0	4313.8	4232.0	4138.3	4066.1	4005.6	3960.7	3929.7
6°	4617.0	4596.5	4543.8	4461.7	4366.1	4263.3	4152.6	4066.6	3994.9	3943.0	3905.6
7°	4732.9	4708.7	4641.7	4541.6	4422.0	4297.3	4167.9	4068.3	3987.8	3927.4	3884.4
8°	4856.4	4828.0	4748.2	4628.0	4482.3	4334.7	4186.2	4073.2	3983.1	3914.2	3867.2
9°	4993.0	4961.2	4865.2	4720.7	4548.5	4375.7	4207.3	4079.3	3979.0	3903.9	3853.1
10°	5140.7	5098.9	4987.5	4820.6	4620.0	4419.5	4231.5	4087.1	3975.8	3897.7	3843.1
11°	5300.6	5253.2	5122.2	4926.1	4695.2	4467.0	4256.8	4097.3	3974.8	3893.0	3836.8
12°	5472.4	5414.6	5263.3	5040.0	4775.9	4518.5	4284.9	4110.9	3977.3	3891.1	3833.9
13°	5657.9	5590.0	5416.5	5159.6	4860.5	4572.7	4318.2	4126.6	3982.8	3891.3	3834.6
14°	5853.5	5777.7	5575.4	5287.5	4953.0	4632.1	4355.4	4144.9	3989.9	3894.4	3838.4
15°	6057.1	5970.9	5741.0	5421.8	5048.4	4693.6	4393.7	4165.4	3999.2	3899.9	3844.4
16°	6266.6	6166.6	5912.5	5559.7	5150.2	4759.6	4435.1	4190.3	4011.1	3907.2	3852.7
17°	6473.2	6364.9	6087.5	5698.7	5255.1	4830.0	4480.4	4216.4	4026.6	3917.8	3863.8
18°	6677.3	6561.4	6261.8	5843.7	5362.6	4904.1	4528.5	4245.4	4043.6	3931.4	3877.0
19°	6876.3	6754.6	6436.8	5985.8	5471.5	4979.6	4576.5	4276.3	4063.6	3945.6	3891.4
20°	7070.1	6938.8	6604.5	6127.6	5582.9	5055.7	4626.7	4309.6	4085.1	3963.6	3908.3
21°	7251.7	7118.4	6770.7	6269.4	5696.2	5136.3	4679.0	4344.4	4108.8	3982.4	3924.5
22°	7423.7	7288.4	6926.5	6407.9	5808.3	5219.8	4731.9	4379.4	4134.7	4003.4	3943.3
23°	7582.7	7453.3	7080.4	6545.3	5923.6	5304.0	4784.8	4414.3	4161.5	4025.8	3962.8
24°	7736.6	7607.8	7227.9	6676.7	6033.2	5387.6	4835.9	4449.7	4189.4	4048.2	3983.6
25°	7883.5	7758.5	7373.4	6806.7	6143.5	5468.9	4887.9	4484.3	4218.0	4072.3	4004.9
26°	8007.8	7892.5	7513.8	6934.3	6250.6	5552.7	4941.7	4520.0	4247.9	4096.7	4026.5
27°	8121.7	8014.2	7650.3	7056.6	6357.1	5638.5	4995.6	4555.0	4277.9	4121.3	4049.2
28°	8224.1	8121.7	7775.9	7179.0	6462.9	5723.9	5051.9	4590.5	4308.5	4147.5	4072.0
29°	8333.6	8228.0	7895.1	7298.7	6564.6	5811.8	5111.2	4628.8	4340.6	4172.7	4097.6
30°	8463.7	8352.3	8011.6	7419.2	6666.4	5902.9	5173.4	4669.4	4373.2	4200.0	4123.5
31°	8572.5	8468.8	8139.8	7542.2	6772.6	5992.5	5236.9	4710.3	4406.8	4228.2	4151.2
32°	8653.7	8560.3	8258.3	7665.2	6882.1	6080.4	5303.5	4751.5	4441.0	4257.9	4179.4
33°	8685.2	8613.7	8356.8	7784.3	7000.6	6168.1	5368.6	4793.0	4475.2	4288.0	4207.2
34°	8667.2	8610.5	8423.1	7891.8	7115.9	6266.3	5436.6	4835.5	4506.7	4317.0	4235.0
35°	8605.4	8561.6	8435.3	7976.2	7216.3	6370.5	5507.1	4879.4	4538.9	4348.1	4265.8
36°	8523.6	8490.1	8405.1	8031.6	7306.5	6471.9	5580.4	4924.8	4571.8	4380.5	4298.7
37°	8454.7	8407.7	8353.6	8043.8	7374.1	6559.5	5652.8	4968.5	4607.3	4414.0	4336.4
38°	8422.5	8354.2	8300.1	8029.0	7426.2	6634.8	5728.6	5009.6	4643.2	4451.6	4375.5
39°	8410.9	8327.2	8261.5	8009.0	7450.7	6697.9	5806.0	5053.7	4680.1	4492.3	4416.5
40°	8407.0	8313.6	8242.8	7998.7	7458.4	6744.9	5876.1	5101.2	4718.7	4537.5	4459.2
41°	8403.8	8304.6	8237.0	7998.7	7470.0	6778.4	5935.7	5153.2	4759.4	4580.9	4501.3
42°	8394.1	8297.5	8236.4	8011.0	7492.6	6808.7	5984.4	5201.9	4803.4	4628.7	4545.0
43°	8375.5	8287.2	8235.7	8032.2	7520.3	6844.7	6024.2	5246.2	4850.4	4677.1	4586.5
44°	8345.8	8274.4	8233.1	8056.7	7553.8	6891.1	6063.5	5289.1	4900.3	4729.1	4627.6



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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°
45°	8306.6	8252.5	8227.3	8079.2	7591.7	6942.6	6106.1	5334.4	4950.1	4780.7	4667.5
46°	8258.3	8224.1	8217.7	8097.9	7634.2	6994.1	6152.3	5382.4	5002.2	4832.0	4706.6
47°	8206.1	8193.9	8206.1	8111.4	7677.4	7047.6	6196.7	5435.4	5053.7	4881.9	4747.3
48°	8150.7	8159.7	8190.6	8121.1	7719.3	7101.7	6242.4	5491.6	5105.7	4931.8	4787.3
49°	8093.4	8124.3	8168.7	8127.5	7761.1	7153.8	6285.5	5548.0	5160.1	4980.6	4831.2
50°	8031.6	8087.6	8142.3	8130.1	7799.7	7206.0	6325.9	5607.0	5214.3	5029.1	4875.5
51°	7961.4	8045.1	8110.8	8129.5	7835.2	7254.3	6362.7	5665.8	5267.8	5078.4	4923.9
52°	7882.8	7992.9	8074.7	8125.0	7871.2	7302.6	6396.1	5724.3	5321.2	5129.1	4975.2
53°	7795.9	7934.3	8036.1	8119.8	7901.5	7345.1	6426.0	5780.5	5377.3	5181.8	5029.5
54°	7698.0	7859.0	7994.2	8108.9	7927.3	7384.4	6456.4	5833.2	5435.9	5237.6	5086.9
55°	7589.2	7770.8	7947.9	8094.0	7949.8	7419.2	6484.1	5882.9	5494.7	5295.4	5146.1
56°	7465.5	7669.0	7890.5	8071.5	7967.8	7449.4	6510.5	5930.6	5554.5	5357.2	5204.5
57°	7325.8	7551.8	7821.6	8041.9	7979.4	7475.2	6533.7	5976.7	5616.4	5423.9	5262.6
58°	7170.6	7416.6	7737.3	8006.5	7983.9	7495.2	6551.1	6018.4	5681.0	5494.3	5318.6
59°	7005.1	7262.7	7643.9	7966.5	7980.1	7506.7	6564.0	6056.3	5742.5	5566.1	5370.4
60°	6806.7	7090.7	7535.7	7918.9	7966.5	7509.3	6570.4	6090.5	5804.4	5641.4	5419.6
61°	6560.8	6890.5	7415.3	7859.6	7941.4	7497.1	6567.8	6117.0	5868.6	5719.5	5474.8
62°	6268.0	6650.3	7280.1	7788.8	7911.8	7470.0	6556.2	6137.2	5934.0	5799.6	5530.5
63°	5939.5	6372.9	7125.5	7703.8	7869.9	7437.2	6541.4	6153.1	5998.8	5880.2	5585.9
64°	5614.2	6079.5	6952.9	7605.9	7812.6	7389.5	6517.6	6158.3	6060.7	5963.3	5638.3
65°	5331.9	5805.0	6766.2	7491.3	7745.7	7328.4	6480.3	6156.8	6120.3	6043.8	5689.0
66°	5107.8	5553.5	6565.3	7361.2	7663.9	7258.2	6422.9	6149.5	6170.8	6123.8	5741.0
67°	4964.4	5342.7	6368.7	7208.6	7555.7	7158.4	6338.5	6118.9	6217.0	6196.2	5787.7
68°	4890.9	5188.1	6180.6	7035.4	7427.5	7023.1	6203.4	6062.0	6256.0	6266.6	5830.2
69°	4827.1	5079.8	6006.7	6843.5	7266.5	6847.3	5990.3	5955.4	6281.9	6327.6	5852.9
70°	4646.6	4984.5	5845.2	6636.1	7070.8	6600.0	5660.8	5770.5	6279.8	6381.5	5866.1
71°	4288.1	4816.7	5703.7	6424.2	6840.9	6265.1	5187.4	5495.6	6237.4	6418.7	5866.7
72°	3810.1	4526.6	5565.2	6207.9	6573.6	5850.8	4669.8	5136.2	6143.7	6435.2	5828.2
73°	3331.5	4119.7	5407.0	5998.2	6263.5	5367.2	4188.9	4730.7	5980.9	6408.4	5755.3
74°	2888.6	3666.8	5211.7	5780.3	5903.6	4864.2	3750.5	4345.2	5767.7	6327.4	5633.5
75°	2244.7	3168.9	4958.5	5517.1	5506.3	4335.3	3238.3	3975.2	5509.3	6176.1	5408.4
76°	1372.9	2552.0	4602.5	5219.4	5070.6	3761.8	2476.2	3504.5	5245.4	5934.0	5101.7
77°	607.6	1685.8	4145.2	4799.9	4580.5	3016.3	1607.5	2781.6	4950.6	5537.4	4759.9
78°	456.6	815.9	3562.1	4236.9	3988.7	2072.2	744.4	1977.0	4580.3	4952.9	4329.7
79°	316.2	595.6	2814.4	3530.3	3283.5	1143.4	302.3	1172.3	3978.6	4176.0	3746.3
80°	175.8	388.1	1816.6	2670.3	2446.5	523.0	201.2	376.9	3041.7	3324.9	3147.3
81°	153.3	180.7	920.0	1751.9	1491.9	359.7	173.9	227.9	2154.3	2566.3	2647.8
82°	134.9	154.8	672.4	856.5	691.0	206.4	153.0	186.2	1267.0	1935.6	2330.8
83°	117.0	133.7	433.4	634.9	498.7	169.8	132.1	157.9	396.9	1545.0	2172.1
84°	99.1	112.9	194.4	420.1	324.8	142.1	111.2	129.7	261.2	1154.5	1645.7
85°	80.6	92.2	144.3	205.4	150.8	115.5	91.7	101.5	210.3	765.4	1119.3
86°	60.4	72.9	105.7	167.6	115.3	88.9	72.2	79.5	168.9	471.1	603.8
87°	43.8	54.8	78.9	128.4	87.2	64.9	52.0	59.7	127.6	327.7	421.6
88°	27.2	36.8	54.6	84.1	62.4	45.3	33.2	42.2	86.6	184.3	239.3
89°	10.7	18.8	30.2	44.8	35.0	25.8	23.3	29.4	59.0	41.2	60.8



REPORT NUMBER: P1436805

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: P1436805

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: P1436805

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: P1436805

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

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5	4117.5
1°	4062.1	4062.3	4067.6	4075.8	4088.4	4102.0	4116.5	4117.0	4131.4	4145.0	4158.0
2°	4015.4	4015.0	4022.3	4036.7	4056.7	4082.3	4110.0	4125.2	4154.7	4182.6	4207.8
3°	3975.9	3973.5	3983.1	4001.7	4028.8	4064.9	4105.5	4135.5	4181.0	4224.8	4264.3
4°	3941.6	3939.5	3949.9	3971.8	4006.0	4050.8	4103.6	4147.9	4209.5	4270.9	4327.9
5°	3912.0	3908.4	3921.3	3946.9	3986.5	4039.3	4103.4	4162.2	4240.0	4319.5	4396.1
6°	3883.8	3880.3	3894.5	3924.0	3969.4	4030.2	4106.6	4179.6	4273.8	4373.6	4469.9
7°	3859.8	3855.2	3870.7	3904.3	3953.7	4022.7	4110.1	4198.2	4310.9	4431.9	4549.1
8°	3839.4	3833.8	3851.1	3888.2	3941.2	4016.7	4115.2	4218.4	4350.5	4494.5	4634.1
9°	3823.6	3816.9	3835.5	3873.5	3932.4	4012.6	4122.6	4240.9	4393.7	4561.2	4725.8
10°	3810.9	3804.5	3822.9	3862.8	3925.1	4011.0	4133.8	4268.2	4440.2	4633.4	4825.5
11°	3803.3	3796.6	3814.9	3856.6	3920.4	4013.7	4147.9	4299.3	4492.4	4711.4	4932.1
12°	3801.0	3793.2	3811.1	3853.3	3920.0	4018.8	4165.0	4333.7	4548.9	4794.7	5045.8
13°	3801.9	3793.1	3811.8	3853.8	3922.5	4027.7	4185.1	4370.0	4609.1	4883.8	5170.8
14°	3804.6	3796.4	3815.0	3858.3	3927.1	4038.3	4207.2	4407.7	4671.2	4979.5	5300.2
15°	3811.0	3801.9	3820.2	3864.7	3935.2	4051.8	4231.4	4450.3	4737.6	5078.9	5437.5
16°	3819.6	3810.2	3828.5	3873.5	3947.7	4067.9	4258.1	4496.0	4807.0	5185.2	5579.9
17°	3829.5	3820.6	3839.9	3885.1	3961.6	4086.9	4287.1	4543.4	4881.0	5293.7	5725.0
18°	3842.2	3832.3	3853.3	3900.2	3977.0	4107.4	4319.1	4594.1	4956.1	5407.0	5875.8
19°	3856.3	3844.2	3868.2	3917.3	3994.9	4129.8	4352.1	4645.0	5034.2	5521.5	6021.4
20°	3870.3	3856.9	3883.8	3936.1	4014.6	4155.1	4388.5	4697.8	5115.4	5637.4	6169.7
21°	3883.6	3869.7	3901.0	3956.9	4037.1	4182.4	4425.9	4752.2	5200.1	5756.1	6313.2
22°	3898.2	3883.0	3918.5	3977.9	4060.4	4211.6	4464.4	4805.7	5283.9	5872.5	6453.9
23°	3914.2	3899.0	3936.6	4000.8	4084.7	4241.8	4503.0	4859.5	5370.6	5990.6	6591.0
24°	3932.8	3917.7	3956.3	4024.7	4108.7	4273.8	4542.9	4912.8	5456.2	6106.1	6723.0
25°	3953.0	3938.5	3978.6	4050.6	4133.2	4306.9	4581.4	4968.2	5543.2	6220.1	6851.2
26°	3975.3	3962.9	4003.4	4076.0	4158.4	4339.1	4621.1	5022.4	5631.1	6328.9	6976.8
27°	4000.7	3990.4	4030.1	4100.7	4184.3	4372.1	4660.6	5079.7	5719.0	6438.6	7104.9
28°	4028.0	4020.5	4059.9	4125.6	4212.0	4405.8	4701.6	5140.4	5809.2	6545.3	7235.6
29°	4058.0	4053.2	4090.8	4152.2	4240.2	4438.6	4744.6	5203.4	5902.5	6654.1	7361.2
30°	4088.9	4089.1	4121.9	4178.5	4269.6	4472.0	4789.1	5269.7	5996.9	6767.5	7485.5
31°	4119.5	4124.7	4152.6	4205.6	4300.0	4504.8	4834.0	5339.3	6096.0	6886.0	7618.8
32°	4151.0	4164.2	4184.2	4232.8	4330.1	4538.1	4877.5	5408.4	6196.8	7001.9	7734.7
33°	4183.3	4204.0	4216.1	4260.9	4360.6	4570.2	4921.5	5482.5	6301.6	7113.9	7846.1
34°	4216.3	4242.6	4247.7	4289.0	4390.3	4600.4	4966.6	5556.7	6400.0	7218.2	7936.3
35°	4249.4	4283.6	4280.5	4319.5	4420.7	4631.7	5012.7	5630.9	6492.5	7310.3	7999.4
36°	4283.3	4326.2	4313.8	4352.5	4451.4	4664.7	5057.5	5701.6	6580.7	7382.5	8026.4
37°	4318.1	4367.4	4346.1	4390.2	4485.8	4698.4	5099.0	5775.9	6656.1	7425.6	8029.0
38°	4350.3	4407.8	4377.0	4430.1	4525.6	4733.8	5140.8	5845.1	6713.4	7446.2	8013.5
39°	4381.7	4450.9	4407.7	4472.7	4568.2	4771.3	5179.0	5907.0	6754.6	7459.1	7997.4
40°	4415.0	4494.0	4440.0	4515.4	4612.8	4808.8	5220.0	5961.5	6783.6	7472.6	7993.6
41°	4448.9	4533.5	4474.9	4558.5	4660.3	4849.2	5259.5	6011.3	6810.6	7492.6	8005.8
42°	4483.6	4573.5	4511.8	4600.6	4710.8	4891.4	5302.9	6057.6	6847.3	7519.0	8030.9
43°	4519.2	4611.5	4549.6	4641.7	4761.8	4935.5	5352.3	6104.6	6896.9	7551.2	8059.9
44°	4555.4	4649.2	4589.2	4683.3	4811.4	4985.6	5404.5	6150.3	6951.6	7591.7	8087.0

REPORT NUMBER: P1436805

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

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4593.5	4686.4	4628.8	4724.4	4861.1	5037.9	5456.7	6194.3	7003.8	7638.1	8110.1
46°	4633.2	4722.1	4671.3	4766.1	4909.7	5093.2	5507.3	6238.6	7054.7	7688.3	8129.5
47°	4676.6	4759.8	4715.7	4807.3	4958.4	5151.7	5562.0	6284.3	7105.6	7737.9	8143.0
48°	4724.3	4792.0	4763.0	4848.6	5005.6	5212.4	5622.7	6324.4	7160.3	7783.0	8152.0
49°	4774.6	4824.5	4812.3	4892.4	5053.7	5271.2	5683.4	6361.1	7215.0	7824.2	8159.1
50°	4824.2	4856.9	4864.3	4939.2	5102.7	5328.6	5744.0	6393.9	7265.3	7860.3	8162.3
51°	4875.4	4891.8	4915.6	4988.6	5152.2	5382.9	5803.6	6424.6	7312.9	7893.1	8162.3
52°	4927.6	4924.6	4969.2	5041.4	5204.7	5437.1	5861.0	6456.4	7355.4	7922.7	8159.7
53°	4980.1	4955.3	5021.8	5097.0	5258.4	5493.2	5913.4	6484.8	7393.4	7949.2	8155.2
54°	5032.1	4984.9	5072.3	5154.1	5315.4	5550.6	5961.2	6511.8	7425.6	7971.0	8145.6
55°	5079.1	5015.5	5117.5	5214.2	5376.8	5610.7	6004.8	6533.7	7452.0	7985.9	8131.4
56°	5119.8	5045.4	5157.5	5274.1	5441.7	5672.3	6044.7	6553.7	7471.3	7998.1	8108.9
57°	5153.8	5074.8	5194.8	5335.2	5510.6	5732.4	6081.1	6571.7	7480.3	8002.6	8079.2
58°	5186.9	5103.3	5228.4	5389.6	5584.2	5792.6	6114.1	6583.3	7485.5	7996.2	8035.4
59°	5218.1	5131.3	5259.5	5439.9	5659.6	5852.5	6141.9	6586.5	7482.3	7982.0	7987.8
60°	5247.3	5155.7	5286.4	5491.4	5737.4	5910.3	6162.6	6582.6	7466.2	7962.0	7930.5
61°	5271.4	5178.2	5309.0	5548.2	5816.4	5967.8	6176.0	6578.1	7439.8	7934.3	7870.6
62°	5290.8	5201.6	5329.9	5605.3	5897.2	6027.9	6182.3	6568.5	7405.0	7892.5	7799.7
63°	5313.4	5223.4	5352.6	5655.0	5975.3	6086.9	6184.6	6545.3	7358.6	7837.7	7713.5
64°	5333.9	5245.8	5376.7	5701.0	6056.8	6142.4	6178.8	6509.9	7299.4	7768.8	7605.3
65°	5352.7	5250.0	5393.2	5747.9	6136.1	6195.3	6162.8	6449.3	7217.6	7683.2	7475.8
66°	5363.2	5222.5	5392.1	5797.0	6209.1	6242.5	6126.9	6353.8	7107.5	7576.9	7325.1
67°	5357.9	5191.5	5378.7	5837.6	6279.3	6271.4	6061.7	6225.2	6961.3	7454.6	7160.9
68°	5342.3	5137.1	5358.9	5870.6	6339.2	6275.0	5959.4	6016.0	6773.9	7302.0	6981.3
69°	5295.0	4995.4	5302.8	5887.9	6389.0	6255.1	5799.0	5687.7	6535.0	7116.5	6789.4
70°	5190.3	4755.5	5180.0	5889.2	6425.2	6207.2	5539.7	5224.6	6207.3	6895.6	6577.5
71°	5004.0	4391.1	4970.9	5867.4	6442.9	6115.3	5174.0	4688.2	5775.2	6627.1	6354.3
72°	4701.8	3943.7	4644.8	5814.3	6426.9	5981.4	4772.8	4209.4	5289.2	6329.4	6129.4
73°	4283.0	3484.5	4242.5	5729.3	6346.0	5779.6	4398.9	3778.4	4768.1	5964.1	5894.4
74°	3826.8	3024.5	3784.6	5566.8	6190.7	5539.7	4041.2	3287.1	4256.7	5540.4	5640.9
75°	3352.8	2448.9	3293.3	5307.7	5968.3	5288.4	3547.9	2528.7	3680.6	5067.4	5337.4
76°	2845.4	1843.6	2780.1	5000.2	5630.2	5017.6	2815.6	1577.3	2952.6	4569.5	4978.1
77°	2273.1	1443.3	2243.0	4641.4	5117.0	4654.4	1992.7	737.5	2038.6	3997.6	4477.8
78°	1897.6	1513.6	1925.0	4179.7	4417.9	4079.2	1169.8	538.7	1107.6	3306.8	3780.0
79°	1962.6	1908.9	2070.1	3579.8	3645.1	3203.6	348.8	360.1	492.4	2508.6	2959.0
80°	2358.7	2178.8	2453.3	2960.4	2886.5	2263.3	227.4	181.4	349.9	1581.3	2049.1
81°	2495.9	1689.8	2446.8	2415.2	2242.4	1323.0	187.0	155.8	208.6	753.4	1133.8
82°	1887.6	1200.7	1836.3	2190.6	1784.7	401.0	160.5	135.7	172.7	550.1	818.0
83°	1279.4	713.5	1225.8	1726.5	1327.0	269.2	133.9	116.2	146.2	356.9	518.7
84°	673.8	380.7	618.4	1262.4	871.2	220.8	107.5	96.5	121.3	163.6	219.5
85°	356.1	229.6	344.5	798.5	507.2	179.7	85.6	75.9	94.6	122.3	184.8
86°	285.2	80.4	275.9	444.2	357.1	138.7	66.0	57.0	70.9	93.4	148.8
87°	214.4	54.2	207.4	355.6	207.1	97.7	47.7	38.1	50.9	68.4	105.7
88°	143.5	28.0	138.9	267.0	58.3	74.1	32.9	19.3	30.9	43.6	57.7
89°	72.6	2.5	70.4	178.4	30.8	50.6	18.1	6.4	11.0	33.1	43.5



REPORT NUMBER: P1436805

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: P1436805

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: P1436805

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: P1436805

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

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	4117.5	4117.5	4117.5
1°	4166.7	4174.3	4177.3
2°	4228.5	4242.4	4246.5
3°	4297.7	4318.5	4325.0
4°	4374.0	4403.3	4412.8
5°	4456.9	4496.9	4509.6
6°	4548.4	4599.9	4617.0
7°	4647.1	4711.7	4732.9
8°	4752.5	4830.8	4856.4
9°	4867.2	4961.4	4993.0
10°	4991.0	5104.6	5140.7
11°	5124.4	5257.5	5300.6
12°	5266.6	5420.0	5472.4
13°	5421.3	5596.3	5657.9
14°	5579.9	5781.2	5853.5
15°	5746.5	5973.8	6057.1
16°	5922.6	6174.7	6266.6
17°	6104.7	6374.6	6473.2
18°	6284.9	6577.5	6677.3
19°	6459.7	6769.4	6876.3
20°	6630.3	6954.2	7070.1
21°	6795.8	7128.7	7251.7
22°	6953.6	7296.2	7423.7
23°	7104.3	7461.7	7582.7
24°	7251.7	7620.7	7736.6
25°	7398.6	7774.0	7883.5
26°	7544.1	7913.7	8007.8
27°	7685.1	8036.7	8121.7
28°	7811.3	8143.6	8224.1
29°	7931.1	8254.4	8333.6
30°	8052.2	8376.1	8463.7
31°	8172.6	8488.8	8572.5
32°	8285.9	8571.2	8653.7
33°	8367.7	8611.8	8685.2
34°	8410.9	8604.1	8667.2
35°	8411.5	8553.2	8605.4
36°	8383.2	8475.3	8523.6
37°	8330.4	8399.3	8454.7
38°	8282.7	8349.1	8422.5
39°	8258.9	8327.2	8410.9
40°	8250.5	8316.2	8407.0
41°	8248.6	8311.1	8403.8
42°	8248.6	8305.3	8394.1
43°	8249.2	8298.2	8375.5
44°	8249.2	8285.9	8345.8

REPORT NUMBER: P1436805

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

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	8247.3	8264.7	8306.6
46°	8243.4	8236.4	8258.3
47°	8235.1	8204.8	8206.1
48°	8222.8	8170.7	8150.7
49°	8201.6	8135.3	8093.4
50°	8175.8	8101.1	8031.6
51°	8143.0	8061.2	7961.4
52°	8105.0	8011.6	7882.8
53°	8065.1	7952.4	7795.9
54°	8023.9	7876.4	7698.0
55°	7976.8	7787.5	7589.2
56°	7920.2	7685.1	7465.5
57°	7850.0	7566.0	7325.8
58°	7763.7	7428.8	7170.6
59°	7668.4	7273.0	7005.1
60°	7558.9	7103.0	6806.7
61°	7431.4	6909.1	6560.8
62°	7292.3	6676.7	6268.0
63°	7145.5	6405.4	5939.5
64°	6982.6	6109.3	5614.2
65°	6800.3	5833.3	5331.9
66°	6603.9	5595.6	5107.8
67°	6409.4	5393.6	4964.4
68°	6216.2	5240.7	4890.9
69°	6048.4	5121.7	4827.1
70°	5901.3	5016.6	4646.6
71°	5749.0	4847.8	4288.1
72°	5575.3	4549.2	3810.1
73°	5410.5	4135.6	3331.5
74°	5200.7	3660.4	2888.6
75°	4888.9	3145.0	2244.7
76°	4476.4	2517.2	1372.9
77°	3999.5	1684.8	607.6
78°	3390.1	846.5	456.6
79°	2546.3	611.4	316.2
80°	1478.9	398.8	175.8
81°	707.2	186.1	153.3
82°	527.5	154.5	134.9
83°	352.3	134.8	117.0
84°	177.1	113.0	99.1
85°	129.3	90.7	80.6
86°	97.2	70.5	60.4
87°	71.3	52.2	43.8
88°	57.2	33.8	27.2
89°	43.5	15.5	10.7



REPORT NUMBER: P1436805

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: P1436805

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: P1436805  
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T5)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)