

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: P1436782

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

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436782
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/25/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS300-SFPM (3000K-180W-T5-HSS)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 5 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

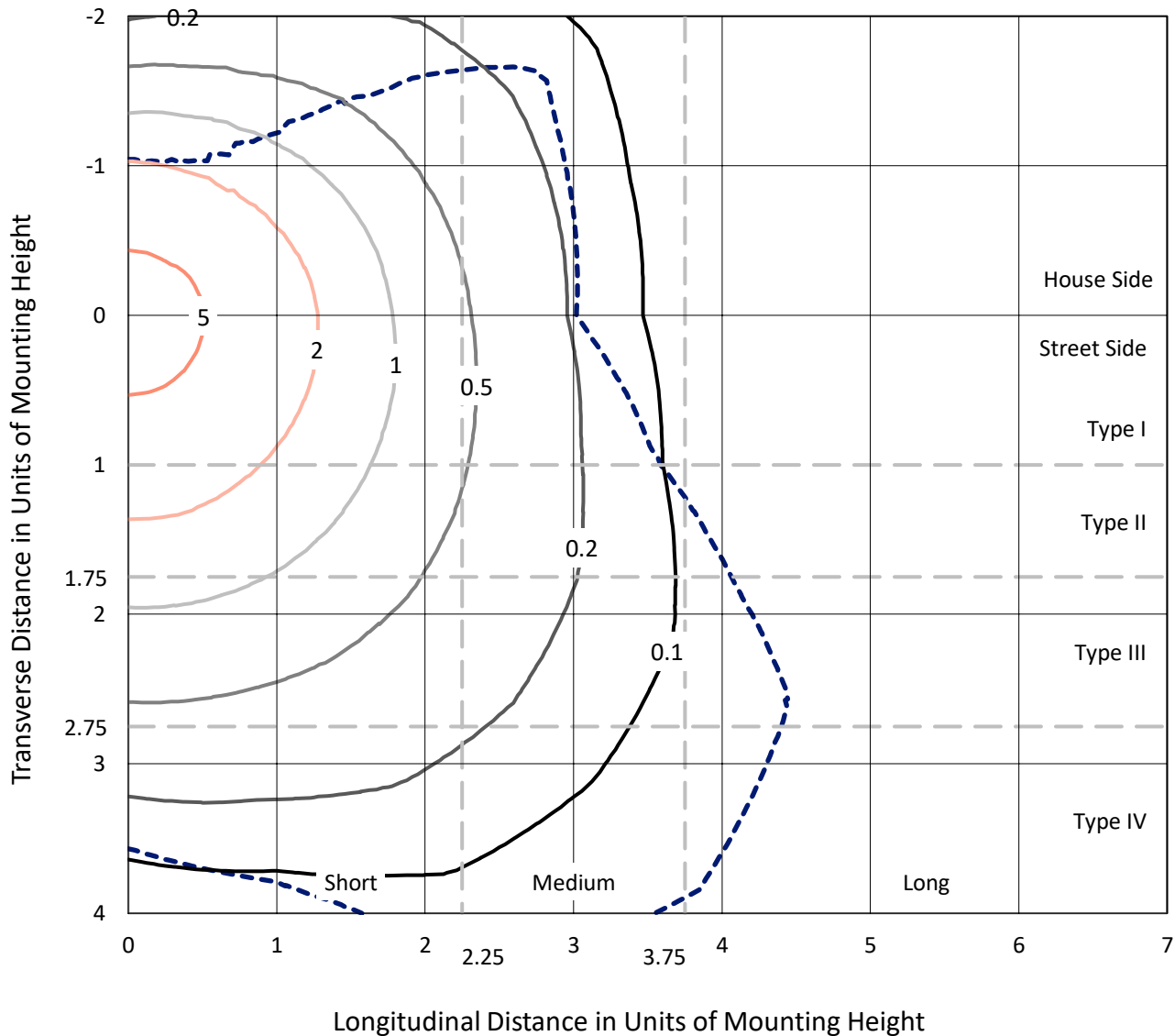
Lumens per Lamp: 36932 (1 lamp)
Luminaire Lumens: 22808.3 lumens
Efficiency: 61.8%
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type IV - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 187
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

REPORT NUMBER: P1436782
 CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5-HSS)

Iso-Footcandle Lines of Horizontal Illumination

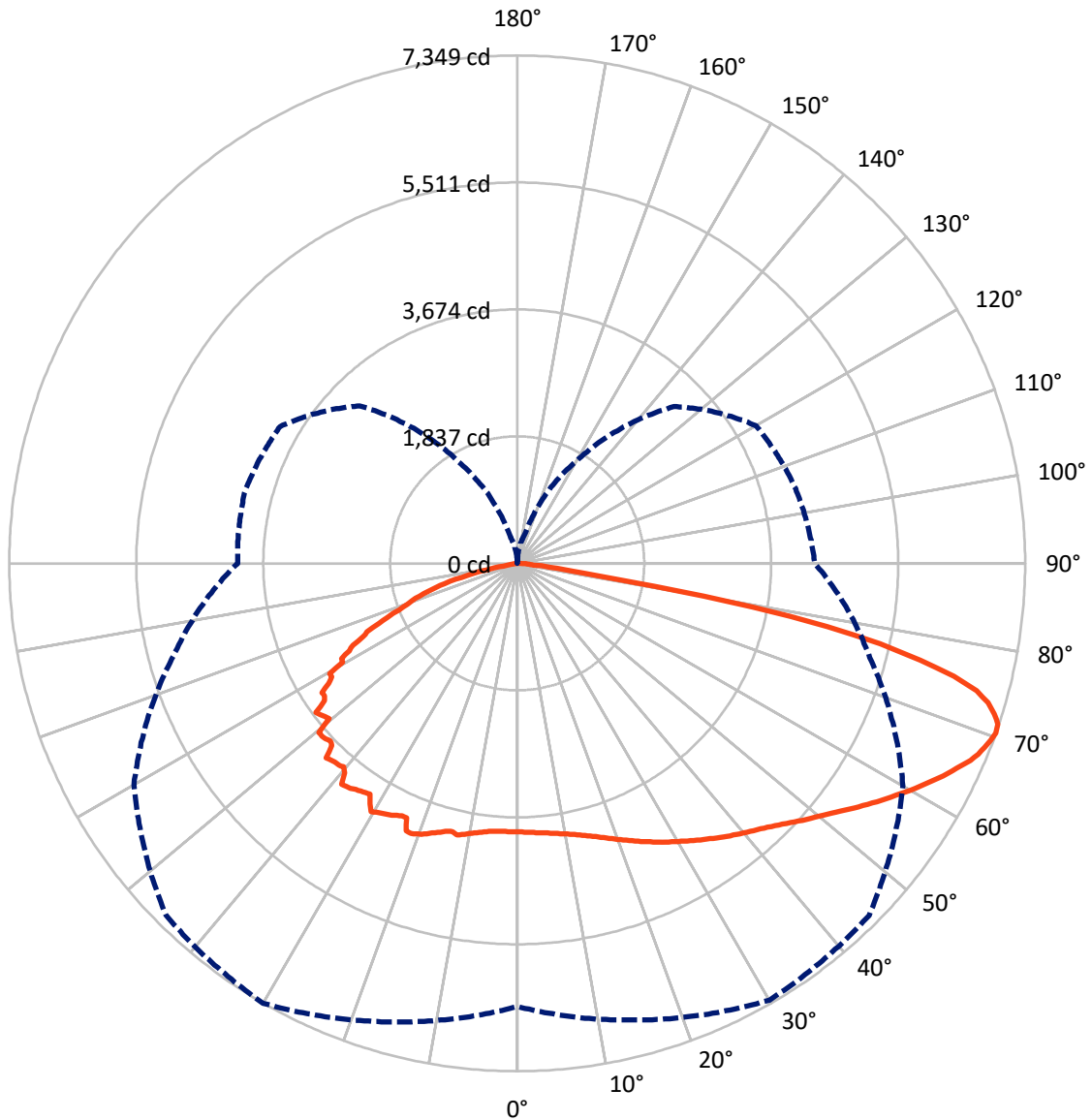
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - Full Cutoff

REPORT NUMBER: P1436782
CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5-HSS)

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1436782

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

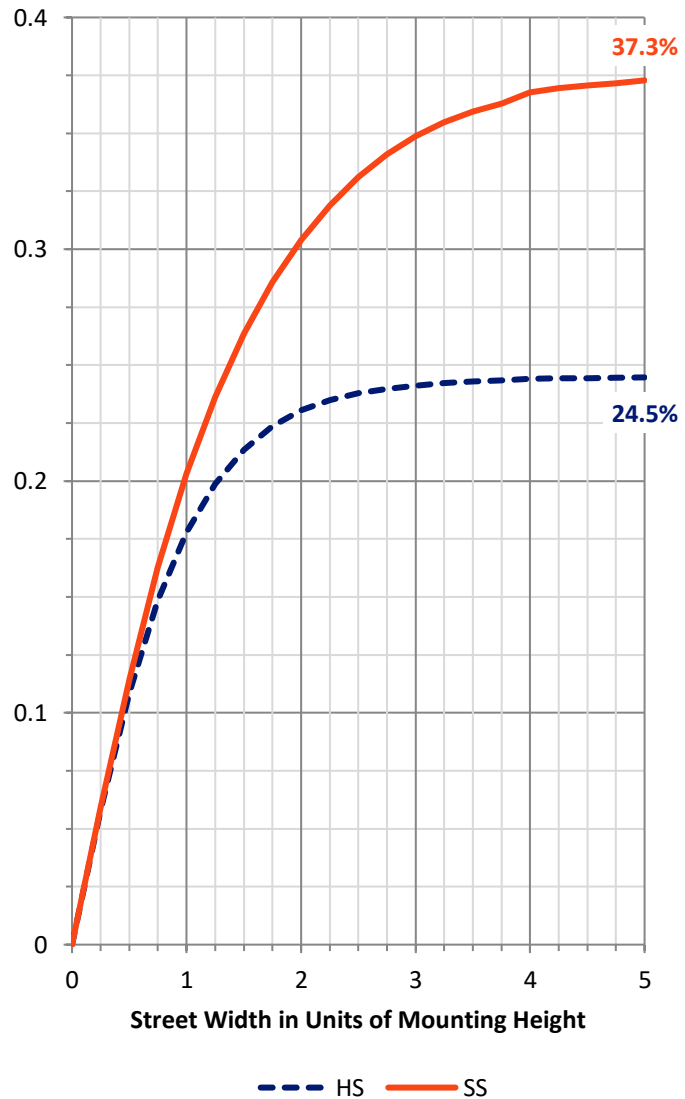
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9057.6	0.0	9057.6
	% Lamp	24.5	0.0	24.5
Street Side	Lumens	13750.7	0.0	13750.7
	% Lamp	37.2	0.0	37.2
Total	Lumens	22808.3	0.0	22808.3
	% Lamp	61.8	0.0	61.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	375.2	1.6	1.0
10°-20°	1159.8	5.1	3.1
20°-30°	2005.3	8.8	5.4
30°-40°	2873.6	12.6	7.8
40°-50°	3715.0	16.3	10.1
50°-60°	4470.7	19.6	12.1
60°-70°	4785.7	21.0	13.0
70°-80°	3218.1	14.1	8.7
80°-90°	204.9	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°	22808.3	100.0	61.8
0°-180°	22808.3	100.0	61.8

Coefficient of Utilization



REPORT NUMBER: P1436782

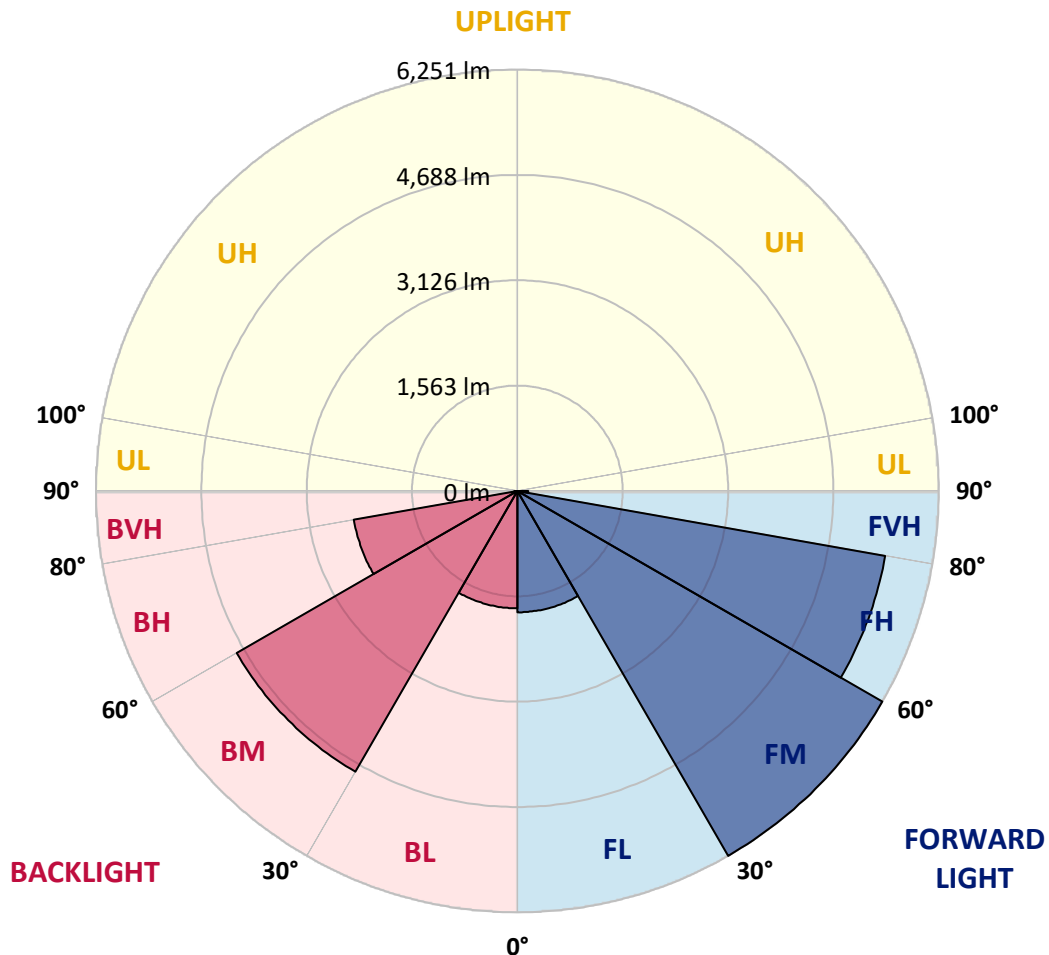
CATALOG NUMBER: XAS300-SFPM (3000K-180W-T5-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.6	4.9			
FM (30°-60°)	6251.3	16.9			
FH (60°-80°)	5539.7	15.0			G3/7500
FVH (80°-90°)	160.2	0.4			G2/225
BL (0°-30°)	1740.8	4.7	B3/2500		
BM (30°-60°)	4808.0	13.0	B3/5000		
BH (60°-80°)	2464.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	44.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	14123.7	38.2			

BUG Rating: B3-U0-G3

Type IV Medium





REPORT NUMBER: P1436782

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

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
1°	3889.3	3889.7	3888.5	3889.5	3888.9	3887.7	3885.9	3884.7	3883.8	3884.0	3883.8
2°	3893.8	3893.5	3892.4	3892.6	3891.0	3889.3	3886.9	3885.1	3883.2	3883.0	3883.2
3°	3899.8	3898.9	3897.1	3896.9	3895.5	3894.2	3890.0	3887.3	3884.8	3883.7	3883.6
4°	3906.4	3904.9	3903.6	3904.2	3902.3	3901.8	3896.9	3892.3	3888.6	3886.6	3885.8
5°	3914.1	3912.5	3912.3	3913.1	3913.3	3913.1	3907.2	3901.2	3894.7	3891.2	3889.9
6°	3922.8	3921.5	3921.5	3924.6	3926.3	3924.6	3918.5	3912.3	3903.1	3896.9	3895.2
7°	3933.0	3931.7	3932.3	3937.6	3939.4	3937.1	3930.5	3923.8	3914.0	3906.1	3907.2
8°	3944.4	3943.6	3945.5	3951.8	3953.6	3952.2	3945.0	3937.0	3926.6	3920.4	3923.1
9°	3957.7	3957.0	3960.9	3967.1	3971.0	3968.5	3960.7	3950.3	3940.0	3938.6	3940.4
10°	3973.5	3972.7	3977.2	3984.6	3989.1	3985.8	3976.6	3964.6	3954.1	3959.6	3960.3
11°	3991.9	3990.4	3995.6	4004.7	4008.4	4004.7	3994.6	3981.1	3972.2	3981.0	3980.2
12°	4011.3	4009.3	4016.1	4025.7	4028.9	4025.5	4007.6	3993.3	3994.8	4004.3	4002.5
13°	4033.6	4030.4	4037.4	4049.1	4051.2	4039.1	4019.4	4004.3	4009.0	4027.9	4025.7
14°	4058.5	4054.2	4060.4	4073.0	4076.0	4056.0	4036.3	4017.3	4026.4	4052.7	3994.2
15°	4085.6	4080.8	4086.2	4098.1	4094.8	4075.7	4056.2	4036.3	4043.1	4070.4	4001.9
16°	4114.2	4109.1	4115.3	4126.0	4116.9	4098.2	4084.8	4062.5	4065.2	4080.8	4030.0
17°	4143.5	4137.3	4145.3	4154.7	4141.4	4127.7	4107.7	4083.5	4090.6	4059.3	4059.2
18°	4174.9	4168.2	4176.5	4188.1	4163.6	4156.3	4135.6	4108.7	4113.7	4068.9	4090.7
19°	4206.0	4199.9	4209.4	4219.1	4191.2	4184.2	4169.6	4143.7	4142.3	4096.6	4124.7
20°	4238.7	4232.3	4243.8	4246.3	4222.7	4214.0	4207.0	4179.9	4177.3	4120.3	4156.9
21°	4271.3	4266.1	4279.2	4277.1	4255.9	4251.7	4244.3	4211.5	4211.3	4147.1	4179.2
22°	4304.6	4301.3	4316.0	4310.2	4286.6	4291.5	4273.1	4230.8	4231.2	4182.3	4198.0
23°	4341.4	4339.1	4354.0	4343.9	4323.1	4331.4	4290.7	4253.4	4224.6	4216.8	4189.7
24°	4378.0	4378.4	4392.1	4377.0	4358.1	4362.9	4312.0	4292.3	4238.5	4242.3	4016.7
25°	4417.3	4419.2	4431.9	4413.6	4397.1	4388.4	4346.2	4315.8	4265.5	4267.7	4016.5
26°	4457.7	4460.5	4472.5	4448.9	4437.1	4413.8	4377.1	4344.4	4289.0	4298.7	4041.2
27°	4500.6	4505.3	4515.4	4490.3	4477.0	4442.1	4401.3	4383.0	4325.5	4315.4	4069.2
28°	4546.1	4551.9	4559.0	4528.5	4515.9	4481.5	4435.3	4420.8	4361.4	4236.8	4091.4
29°	4593.8	4597.9	4601.7	4565.4	4551.2	4522.1	4478.0	4450.7	4380.6	4143.5	4114.8
30°	4644.0	4644.5	4641.4	4602.6	4585.9	4552.3	4522.5	4471.7	4397.9	4157.9	4139.8
31°	4695.0	4691.0	4680.3	4646.0	4612.8	4587.3	4560.2	4501.4	4430.4	4162.4	4168.4
32°	4748.9	4738.6	4723.0	4686.1	4644.2	4623.3	4583.9	4535.9	4464.3	4180.8	4078.0
33°	4806.6	4786.6	4765.1	4725.6	4676.8	4664.3	4613.6	4570.4	4477.6	4209.8	3961.1
34°	4864.5	4834.1	4806.2	4769.5	4717.0	4704.9	4652.4	4589.6	4503.0	4241.5	3978.7
35°	4924.5	4883.5	4850.9	4815.2	4757.9	4743.5	4693.9	4618.8	4523.4	4267.4	3995.5
36°	4984.2	4930.2	4893.4	4859.4	4796.8	4773.1	4737.5	4650.3	4544.5	4280.9	4019.9
37°	5046.1	4975.7	4936.8	4903.5	4831.2	4795.2	4769.9	4674.3	4547.0	4286.1	4052.7
38°	5109.5	5020.3	4978.3	4949.2	4870.3	4825.0	4809.4	4702.5	4456.2	4168.5	4068.8
39°	5172.6	5065.3	5022.7	4989.9	4905.5	4861.1	4860.9	4723.3	4386.3	4119.0	4080.7
40°	5240.9	5113.0	5064.5	5030.2	4948.5	4902.6	4908.9	4752.9	4419.2	4154.2	3925.2
41°	5307.2	5165.3	5108.3	5074.1	4996.6	4948.1	4953.4	4766.4	4457.0	4185.6	3869.0
42°	5374.0	5223.1	5158.4	5114.1	5046.5	4995.6	4997.5	4778.4	4493.8	4180.8	3897.3
43°	5434.8	5285.1	5211.7	5160.5	5097.6	5030.5	5035.8	4813.5	4479.2	4193.1	3900.7
44°	5492.8	5350.1	5267.4	5208.9	5149.6	5075.5	5073.6	4841.6	4483.2	4223.6	3921.6



REPORT NUMBER: P1436782

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

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5548.5	5416.4	5323.7	5258.3	5195.4	5124.1	5114.2	4889.4	4513.7	4244.7	3942.6
46°	5601.2	5484.8	5383.7	5315.5	5242.7	5181.8	5143.8	4893.7	4549.2	4119.6	3761.2
47°	5651.1	5556.0	5447.8	5377.3	5295.3	5234.3	5172.9	4879.1	4558.1	4050.4	3728.5
48°	5700.0	5632.5	5514.9	5442.7	5349.1	5285.1	5215.1	4906.4	4562.5	4072.9	3759.9
49°	5751.9	5712.9	5586.8	5509.0	5409.2	5341.1	5254.6	4946.5	4466.3	4113.5	3771.6
50°	5805.8	5797.1	5659.6	5570.2	5472.4	5395.7	5293.1	4971.5	4454.1	4131.8	3770.3
51°	5862.3	5882.2	5735.5	5636.0	5536.6	5445.6	5325.5	4987.0	4469.8	4139.8	3528.5
52°	5919.7	5970.8	5814.2	5708.6	5605.4	5497.4	5324.2	5013.8	4485.1	3991.5	3557.1
53°	5983.4	6060.8	5893.2	5783.4	5671.3	5546.6	5291.7	5028.8	4530.8	3973.8	3594.9
54°	6053.6	6149.8	5980.9	5862.0	5729.2	5590.9	5283.7	5028.2	4532.6	3992.2	3624.3
55°	6122.4	6237.0	6071.3	5945.9	5789.6	5625.9	5297.8	5028.1	4531.9	4003.4	3422.4
56°	6192.5	6321.6	6163.4	6035.8	5852.5	5665.6	5319.1	5018.1	4507.0	3950.4	3379.9
57°	6259.8	6403.1	6256.7	6124.3	5918.9	5711.5	5330.5	5012.4	4408.9	3818.8	3389.0
58°	6325.3	6478.4	6351.2	6217.8	5984.1	5753.9	5327.9	4959.1	4422.6	3866.3	3236.2
59°	6389.5	6547.0	6446.3	6309.2	6047.2	5788.6	5322.3	4960.7	4416.4	3916.0	3145.3
60°	6452.5	6611.8	6539.6	6403.1	6106.0	5818.6	5320.2	4920.3	4398.4	3898.6	3147.9
61°	6505.6	6667.4	6634.7	6492.0	6166.2	5834.9	5304.4	4878.5	4359.0	3766.6	2903.8
62°	6551.9	6716.2	6727.9	6577.3	6227.1	5823.6	5265.5	4827.7	4306.1	3750.1	2892.3
63°	6596.4	6760.1	6820.0	6665.0	6282.0	5775.4	5219.7	4772.0	4289.2	3693.1	2741.0
64°	6654.5	6802.1	6914.5	6757.6	6324.0	5731.0	5161.3	4718.6	4241.1	3616.2	2657.2
65°	6715.0	6853.9	7002.2	6852.7	6370.4	5695.7	5104.6	4654.8	4142.6	3583.2	2464.8
66°	6751.4	6908.9	7080.0	6937.3	6414.8	5676.3	5028.1	4601.2	4157.7	3480.4	2391.3
67°	6756.4	6949.0	7146.7	7018.2	6442.0	5645.7	4936.4	4517.6	4183.3	3426.3	2186.9
68°	6749.6	6955.2	7212.7	7095.4	6461.8	5584.7	4789.2	4430.4	4203.6	3352.9	2032.3
69°	6670.5	6926.8	7268.9	7158.4	6461.1	5480.4	4615.8	4323.8	4094.0	3283.0	1835.6
70°	6409.9	6839.7	7295.5	7200.4	6442.6	5283.4	4305.2	4168.9	3986.1	3207.5	1703.0
71°	5899.3	6614.9	7273.3	7210.9	6398.8	5015.9	3901.1	3943.8	3899.5	3106.0	1619.4
72°	5240.1	6198.7	7197.9	7183.1	6331.5	4672.9	3520.9	3667.9	3790.6	2989.9	1489.1
73°	4595.9	5627.2	7060.8	7122.6	6213.5	4298.9	3193.0	3354.9	3622.6	2864.8	1358.2
74°	3964.3	5000.5	6850.8	7006.5	6028.0	3927.1	2901.6	3028.4	3449.1	2717.5	1227.3
75°	3026.2	4300.4	6535.3	6794.0	5812.1	3554.2	2554.0	2702.5	3254.4	2538.8	1095.3
76°	1805.0	3393.7	6046.9	6469.8	5495.7	3052.6	1881.9	2387.8	3017.7	2300.3	919.4
77°	782.6	2150.7	5402.9	5972.4	5080.3	2300.2	1209.8	1810.1	2748.8	1989.7	748.0
78°	597.6	1004.5	4609.8	5243.1	4507.8	1374.8	547.4	1232.4	2427.5	1602.2	549.1
79°	424.7	752.5	3527.8	4314.2	3659.9	588.7	201.9	654.8	1981.3	1214.7	332.2
80°	251.7	503.2	2158.8	3157.8	2575.6	440.2	170.2	467.2	1364.5	827.1	203.9
81°	229.1	253.8	1036.8	1943.9	1404.5	295.2	138.6	279.7	748.0	463.3	76.5
82°	209.5	226.1	756.1	861.2	591.8	150.3	107.3	98.0	526.4	271.5	45.6
83°	189.8	201.8	496.1	646.4	396.2	129.8	92.2	83.4	304.8	81.9	31.8
84°	169.8	178.3	236.1	442.9	201.9	111.0	77.9	70.0	85.2	66.0	24.6
85°	148.9	155.8	190.9	239.4	160.3	93.3	63.9	56.8	67.2	55.0	19.2
86°	126.2	133.8	157.9	200.0	128.9	76.3	50.1	44.7	51.7	44.8	16.1
87°	103.6	113.4	130.7	157.2	103.9	60.8	36.3	34.0	39.7	33.8	12.9
88°	84.2	93.6	104.6	109.8	80.6	46.7	25.9	26.3	29.4	24.1	9.8
89°	69.2	73.1	74.9	64.8	62.1	32.6	15.5	18.7	20.9	14.3	6.8



REPORT NUMBER: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
1°	3883.6	3884.6	3885.5	3886.3	3887.7	3888.4	3889.8	3889.1	3889.1	3889.7	3890.8
2°	3882.6	3884.4	3885.6	3887.6	3889.8	3891.8	3893.1	3894.5	3894.4	3895.1	3895.4
3°	3883.8	3885.3	3887.9	3890.2	3893.4	3896.2	3898.7	3901.3	3901.8	3902.3	3901.5
4°	3885.7	3888.2	3890.6	3893.8	3898.3	3903.2	3907.3	3910.4	3911.4	3911.8	3909.9
5°	3888.6	3890.8	3894.2	3899.2	3904.9	3911.7	3917.1	3920.8	3922.1	3922.1	3920.4
6°	3897.1	3900.5	3903.6	3905.5	3914.1	3922.0	3928.0	3933.3	3934.0	3933.8	3930.6
7°	3910.9	3914.6	3917.4	3919.4	3923.9	3933.6	3940.9	3947.4	3948.3	3947.2	3943.1
8°	3925.7	3928.8	3931.5	3935.9	3938.9	3947.2	3955.3	3962.2	3964.4	3963.9	3958.0
9°	3941.9	3944.3	3948.3	3954.5	3957.5	3961.6	3970.0	3977.7	3981.1	3981.1	3973.7
10°	3958.0	3960.5	3964.9	3974.1	3978.4	3977.5	3987.6	3996.8	3999.3	3999.0	3991.4
11°	3978.3	3980.7	3984.3	3994.6	4001.7	3998.4	4008.1	4019.5	4022.1	4020.1	4012.2
12°	3983.0	3958.1	3992.9	4017.7	4027.5	4024.6	4021.0	4034.6	4046.8	4044.7	4035.1
13°	3945.9	3948.2	3952.9	4041.7	4053.6	4041.5	4038.8	4053.1	4065.5	4073.6	4060.2
14°	3969.1	3973.6	3978.5	4016.5	4081.9	4062.5	4056.8	4072.5	4085.9	4098.7	4087.4
15°	3997.6	3999.9	4005.3	4019.8	4102.2	4084.1	4080.1	4097.4	4108.7	4121.9	4117.5
16°	4026.5	4029.4	4034.4	4050.4	4124.5	4112.5	4103.5	4125.6	4136.3	4147.1	4150.2
17°	4057.3	4060.0	4066.6	4083.0	4109.4	4136.3	4129.4	4154.7	4169.4	4172.9	4183.3
18°	4088.6	4086.3	4097.4	4116.7	4115.7	4164.9	4162.3	4187.2	4198.6	4204.2	4214.6
19°	4116.6	4113.2	4126.9	4152.0	4141.6	4201.5	4198.8	4225.8	4231.9	4238.3	4242.1
20°	4143.7	4127.2	4155.3	4186.3	4169.4	4239.1	4233.0	4264.3	4270.0	4275.1	4274.7
21°	4082.7	3938.3	4098.1	4207.5	4205.0	4270.4	4264.8	4297.8	4311.9	4306.0	4310.0
22°	3949.2	3942.4	3967.7	4229.6	4243.2	4293.7	4286.8	4326.0	4353.4	4343.8	4343.0
23°	3973.5	3968.2	3994.6	4231.7	4274.5	4293.6	4320.1	4346.7	4391.0	4380.0	4380.3
24°	3999.5	3996.3	4022.9	4064.1	4305.5	4313.1	4361.9	4380.7	4426.5	4422.2	4417.5
25°	4030.1	4029.4	4055.3	4068.0	4333.4	4336.7	4388.1	4419.9	4453.3	4465.4	4455.3
26°	4064.9	4062.8	4092.5	4098.7	4368.4	4365.5	4420.5	4446.3	4482.0	4507.4	4494.5
27°	4096.5	4095.8	4126.6	4126.6	4382.8	4404.7	4463.7	4477.2	4524.2	4546.9	4530.3
28°	4130.6	4097.0	4159.0	4151.1	4311.3	4440.0	4502.6	4520.8	4569.4	4583.7	4568.0
29°	4088.7	3889.2	4109.1	4175.0	4219.8	4457.2	4528.5	4567.5	4605.9	4620.6	4610.1
30°	3910.0	3916.6	3941.2	4206.2	4231.0	4480.4	4557.1	4609.4	4642.0	4652.6	4650.3
31°	3935.3	3948.8	3969.9	4235.1	4239.8	4514.2	4592.6	4640.9	4680.5	4684.1	4690.8
32°	3962.0	3986.7	3998.4	4133.5	4265.0	4549.1	4631.3	4671.5	4723.3	4717.7	4738.6
33°	3992.5	4025.3	4031.4	4024.8	4298.5	4563.2	4667.4	4705.9	4762.7	4761.6	4786.1
34°	4024.5	4061.4	4061.8	4043.5	4332.7	4589.6	4687.2	4746.0	4799.6	4803.7	4833.8
35°	4052.8	4094.2	4090.1	4060.8	4354.4	4608.8	4717.7	4790.0	4827.0	4845.3	4881.1
36°	4075.8	3863.5	4111.1	4089.3	4365.1	4627.2	4742.0	4826.6	4847.7	4877.2	4925.0
37°	3834.1	3845.1	3861.4	4119.6	4365.3	4627.9	4766.8	4861.9	4877.6	4915.3	4967.9
38°	3805.1	3881.1	3843.9	4130.8	4246.6	4539.8	4792.7	4908.7	4910.5	4950.5	5011.7
39°	3830.7	3921.5	3869.3	4149.2	4204.3	4479.5	4811.6	4957.1	4948.8	4995.2	5054.7
40°	3861.7	3961.9	3897.4	3992.6	4241.5	4516.1	4842.3	5002.5	4992.4	5042.7	5094.7
41°	3879.6	3971.9	3915.5	3945.1	4264.8	4554.8	4851.0	5055.5	5039.8	5090.7	5135.2
42°	3870.0	3684.2	3917.0	3967.6	4258.1	4579.9	4866.7	5103.9	5083.8	5137.7	5181.2
43°	3621.2	3705.4	3664.1	3969.8	4279.2	4556.8	4905.4	5144.6	5132.0	5185.6	5227.6
44°	3646.5	3731.3	3692.2	3990.6	4309.5	4570.3	4940.8	5186.5	5185.3	5227.8	5281.8



REPORT NUMBER: P1436782

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3682.5	3752.6	3726.5	4009.4	4334.8	4607.5	4987.0	5222.8	5241.9	5276.2	5343.7
46°	3702.8	3676.8	3742.1	3811.0	4203.2	4638.1	4972.6	5250.7	5292.7	5334.1	5409.1
47°	3646.3	3417.2	3687.8	3803.9	4144.3	4657.2	4969.4	5288.9	5344.3	5392.9	5474.1
48°	3418.4	3432.6	3467.2	3830.3	4172.1	4651.6	5005.8	5328.9	5403.4	5455.2	5536.2
49°	3453.1	3451.1	3501.1	3842.7	4214.1	4556.2	5054.0	5364.8	5461.9	5517.5	5598.6
50°	3488.5	3464.2	3536.9	3837.1	4223.4	4564.5	5078.8	5396.6	5512.3	5579.9	5664.2
51°	3521.8	3122.7	3563.7	3606.0	4233.9	4580.7	5094.4	5411.8	5564.7	5646.3	5736.4
52°	3224.3	3131.5	3259.3	3640.2	4068.3	4603.2	5130.1	5381.9	5616.6	5710.8	5806.7
53°	3213.0	3144.1	3259.5	3678.3	4074.6	4644.9	5136.7	5364.3	5664.8	5768.6	5885.9
54°	3221.2	2895.1	3261.1	3713.8	4097.2	4644.5	5139.3	5374.1	5699.9	5828.3	5969.1
55°	2995.6	2764.7	3033.3	3475.3	4106.9	4641.8	5135.6	5394.6	5735.9	5883.8	6054.0
56°	2880.7	2765.2	2927.3	3456.7	4025.2	4610.3	5118.5	5411.8	5775.4	5944.8	6141.8
57°	2882.6	2473.4	2933.4	3470.9	3939.8	4527.7	5104.4	5408.0	5810.5	6006.4	6227.7
58°	2602.8	2392.5	2636.0	3294.1	3985.5	4537.0	5046.7	5396.5	5838.9	6059.2	6313.5
59°	2536.9	2376.0	2583.0	3228.7	4031.9	4525.4	5047.4	5389.1	5863.4	6112.2	6395.7
60°	2465.5	1990.4	2489.8	3229.4	3980.3	4500.1	4985.4	5377.7	5875.7	6172.2	6476.0
61°	2182.8	1975.4	2226.9	2981.1	3865.7	4447.2	4942.4	5343.2	5861.7	6228.9	6560.6
62°	2122.0	1588.7	2142.6	2975.6	3847.8	4398.3	4880.2	5308.0	5813.2	6275.3	6652.0
63°	1810.8	1374.2	1849.4	2784.1	3774.7	4376.4	4814.2	5238.6	5771.0	6317.3	6743.4
64°	1614.7	1159.8	1632.0	2727.4	3705.4	4313.1	4755.3	5186.4	5737.3	6362.3	6827.4
65°	1404.6	945.6	1411.7	2515.2	3661.3	4225.9	4683.6	5107.0	5712.0	6405.6	6907.7
66°	1194.7	751.0	1191.4	2444.2	3556.9	4244.2	4608.3	5010.3	5684.3	6437.7	6983.0
67°	983.3	499.4	970.2	2245.1	3499.5	4258.5	4499.3	4875.7	5628.0	6458.7	7055.3
68°	731.3	247.8	700.8	2053.0	3403.2	4246.5	4394.4	4724.9	5532.6	6466.7	7121.3
69°	512.4	0.5	481.2	1834.2	3313.0	4091.0	4265.2	4446.7	5376.4	6447.6	7170.8
70°	458.8	0.4	411.8	1698.8	3221.4	3960.2	4074.3	4044.9	5144.8	6403.1	7193.0
71°	400.9	0.3	350.5	1606.9	3108.5	3843.5	3802.4	3628.0	4798.9	6336.4	7189.9
72°	337.5	0.4	283.2	1456.8	2976.7	3706.0	3491.5	3274.5	4395.8	6236.3	7160.3
73°	272.7	0.4	214.5	1291.5	2822.2	3517.9	3168.5	2999.0	4000.0	6060.9	7076.3
74°	215.4	0.4	153.5	1126.2	2631.0	3329.3	2855.6	2653.2	3615.1	5823.6	6918.8
75°	156.3	0.5	93.2	960.6	2427.3	3115.3	2499.4	2078.4	3187.5	5514.4	6683.5
76°	97.2	0.6	53.0	772.3	2149.9	2833.3	2068.5	1326.5	2565.2	5119.1	6337.0
77°	46.7	0.7	24.4	595.2	1776.8	2504.3	1673.3	613.1	1735.8	4637.4	5805.6
78°	34.5	0.8	19.4	400.7	1374.3	2095.6	1278.1	444.3	850.7	3983.3	4974.6
79°	22.4	1.0	14.4	285.5	971.7	1531.6	883.0	289.4	612.2	3104.0	3900.0
80°	10.4	1.1	9.5	170.3	573.7	967.6	487.8	134.6	388.4	1989.7	2740.0
81°	9.1	1.3	8.4	55.4	406.9	411.6	106.4	115.2	164.6	947.8	1531.6
82°	8.1	1.5	7.6	37.4	240.0	255.2	91.4	100.4	143.5	688.8	596.4
83°	7.3	1.7	6.9	29.9	75.8	99.7	78.0	85.8	124.5	438.0	461.8
84°	6.6	1.9	6.3	23.5	64.7	78.6	65.3	71.7	106.1	187.2	346.7
85°	6.0	2.1	5.8	18.1	54.5	62.5	53.0	57.3	88.7	148.0	231.6
86°	5.4	2.3	5.2	15.1	44.1	48.6	41.5	43.0	72.1	119.6	191.0
87°	4.9	2.6	4.8	12.0	32.7	36.8	31.5	28.6	58.1	95.7	146.9
88°	4.5	2.8	4.4	9.0	23.2	26.0	22.3	16.6	43.1	72.4	98.3
89°	4.0	3.0	4.1	6.5	13.7	15.2	13.0	7.1	28.0	56.5	57.0



REPORT NUMBER: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3886.5	3886.5	3886.5
1°	3889.9	3890.2	3889.3
2°	3894.6	3894.3	3893.8
3°	3901.0	3900.0	3899.8
4°	3908.7	3906.9	3906.4
5°	3917.4	3915.0	3914.1
6°	3927.1	3923.3	3922.8
7°	3938.3	3934.1	3933.0
8°	3951.5	3946.2	3944.4
9°	3966.2	3960.1	3957.7
10°	3982.8	3975.6	3973.5
11°	4001.8	3993.4	3991.9
12°	4022.9	4012.9	4011.3
13°	4045.8	4035.1	4033.6
14°	4070.3	4060.8	4058.5
15°	4098.5	4087.8	4085.6
16°	4128.8	4116.7	4114.2
17°	4161.7	4148.1	4143.5
18°	4195.3	4179.0	4174.9
19°	4230.4	4212.2	4206.0
20°	4266.7	4245.1	4238.7
21°	4304.6	4280.8	4271.3
22°	4343.3	4317.3	4304.6
23°	4383.8	4356.7	4341.4
24°	4423.1	4397.1	4378.0
25°	4463.1	4440.6	4417.3
26°	4505.2	4485.5	4457.7
27°	4547.9	4529.2	4500.6
28°	4587.5	4575.3	4546.1
29°	4625.9	4620.6	4593.8
30°	4667.7	4667.1	4644.0
31°	4710.1	4714.7	4695.0
32°	4752.1	4761.4	4748.9
33°	4797.5	4809.5	4806.6
34°	4841.2	4858.8	4864.5
35°	4885.6	4908.1	4924.5
36°	4931.5	4955.3	4984.2
37°	4977.9	5002.0	5046.1
38°	5022.9	5046.9	5109.5
39°	5067.3	5091.8	5172.6
40°	5113.6	5140.7	5240.9
41°	5161.3	5194.7	5307.2
42°	5210.8	5254.1	5374.0
43°	5262.5	5315.9	5434.8
44°	5320.4	5382.7	5492.8

REPORT NUMBER: P1436782

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5381.7	5448.9	5548.5
46°	5449.9	5518.5	5601.2
47°	5520.0	5593.6	5651.1
48°	5588.1	5672.0	5700.0
49°	5658.2	5752.4	5751.9
50°	5732.6	5837.9	5805.8
51°	5811.5	5923.3	5862.3
52°	5892.5	6013.2	5919.7
53°	5977.1	6101.8	5983.4
54°	6066.5	6191.3	6053.6
55°	6154.6	6277.7	6122.4
56°	6245.6	6362.3	6192.5
57°	6333.9	6443.9	6259.8
58°	6424.1	6517.3	6325.3
59°	6517.3	6582.8	6389.5
60°	6611.2	6645.2	6452.5
61°	6705.7	6709.4	6505.6
62°	6797.7	6768.1	6551.9
63°	6886.7	6812.6	6596.4
64°	6973.1	6845.3	6654.5
65°	7060.2	6890.4	6715.0
66°	7146.7	6947.2	6751.4
67°	7218.3	6986.1	6756.4
68°	7265.2	6989.2	6749.6
69°	7315.3	6953.4	6670.5
70°	7348.6	6868.8	6409.9
71°	7331.9	6664.3	5899.3
72°	7239.3	6262.3	5240.1
73°	7105.3	5692.0	4595.9
74°	6899.6	5045.8	3964.3
75°	6522.9	4336.5	3026.2
76°	5998.5	3442.7	1805.0
77°	5374.6	2285.1	782.6
78°	4578.2	1130.2	597.6
79°	3461.2	508.5	424.7
80°	2019.1	376.9	251.7
81°	954.4	261.8	229.1
82°	698.6	230.4	209.5
83°	467.2	206.0	189.8
84°	235.8	181.5	169.8
85°	189.6	157.1	148.9
86°	158.4	134.5	126.2
87°	130.8	113.5	103.6
88°	104.0	93.3	84.2
89°	72.8	72.5	69.2



REPORT NUMBER: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

CATALOG NUMBER: XAS300-SFPM (3000K-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: P1436782

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)