

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: P1436763

Luminaire Tested: XAS180-SFPM (5000K-180W-T5)

Issue Date: 3/25/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1436763  
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: XAS180-SFPM (5000K-180W-T5)  
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.  
LUMEN OUTPUT - 100% (180W)  
OPTICS - TYPE 5  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

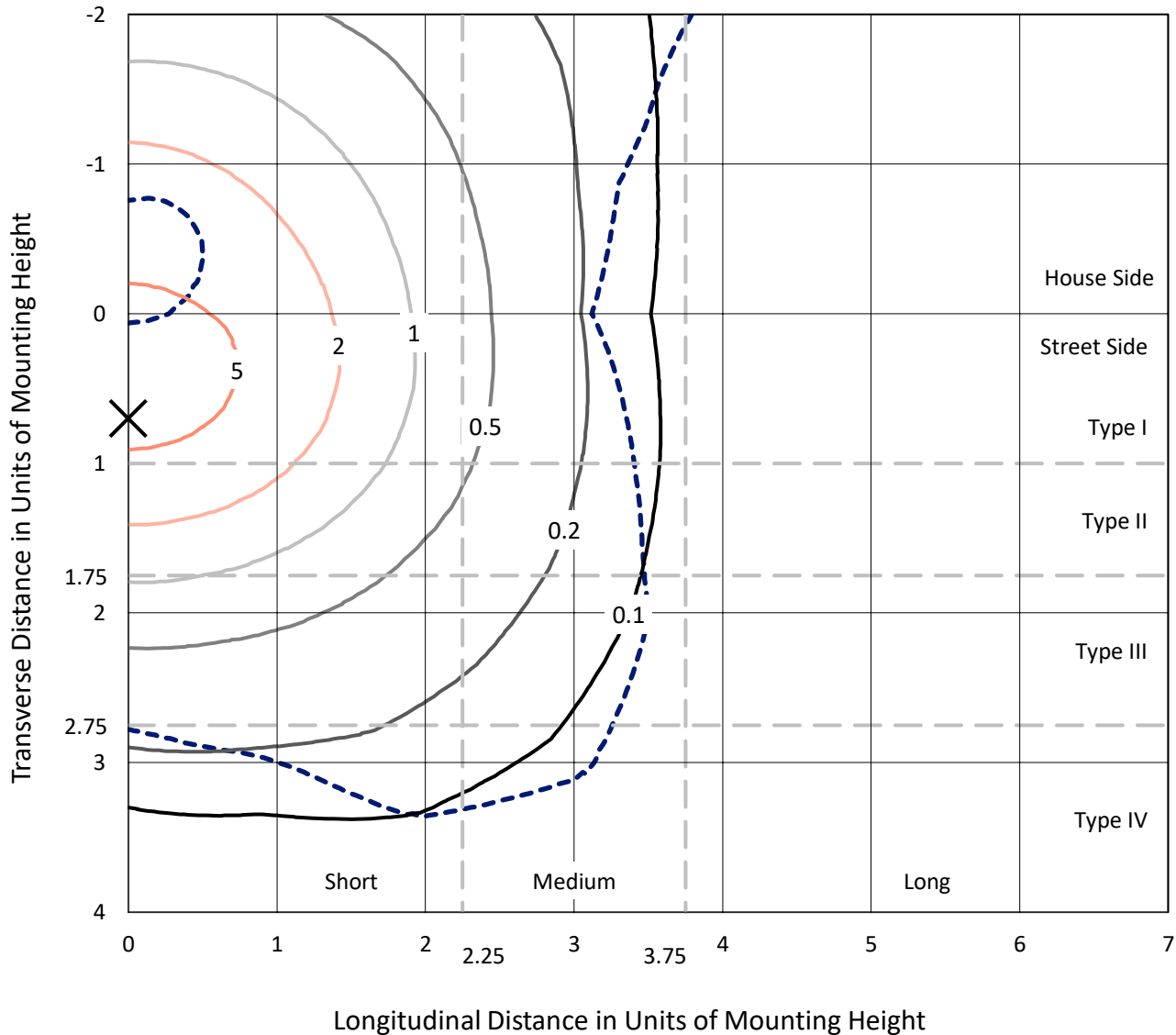
Lumens per Lamp: 28628 (1 lamp)  
Luminaire Lumens: 26975.9 lumens  
Efficiency: 94.2%  
Efficacy: 149.4 lumens/watt  
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 180.6  
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

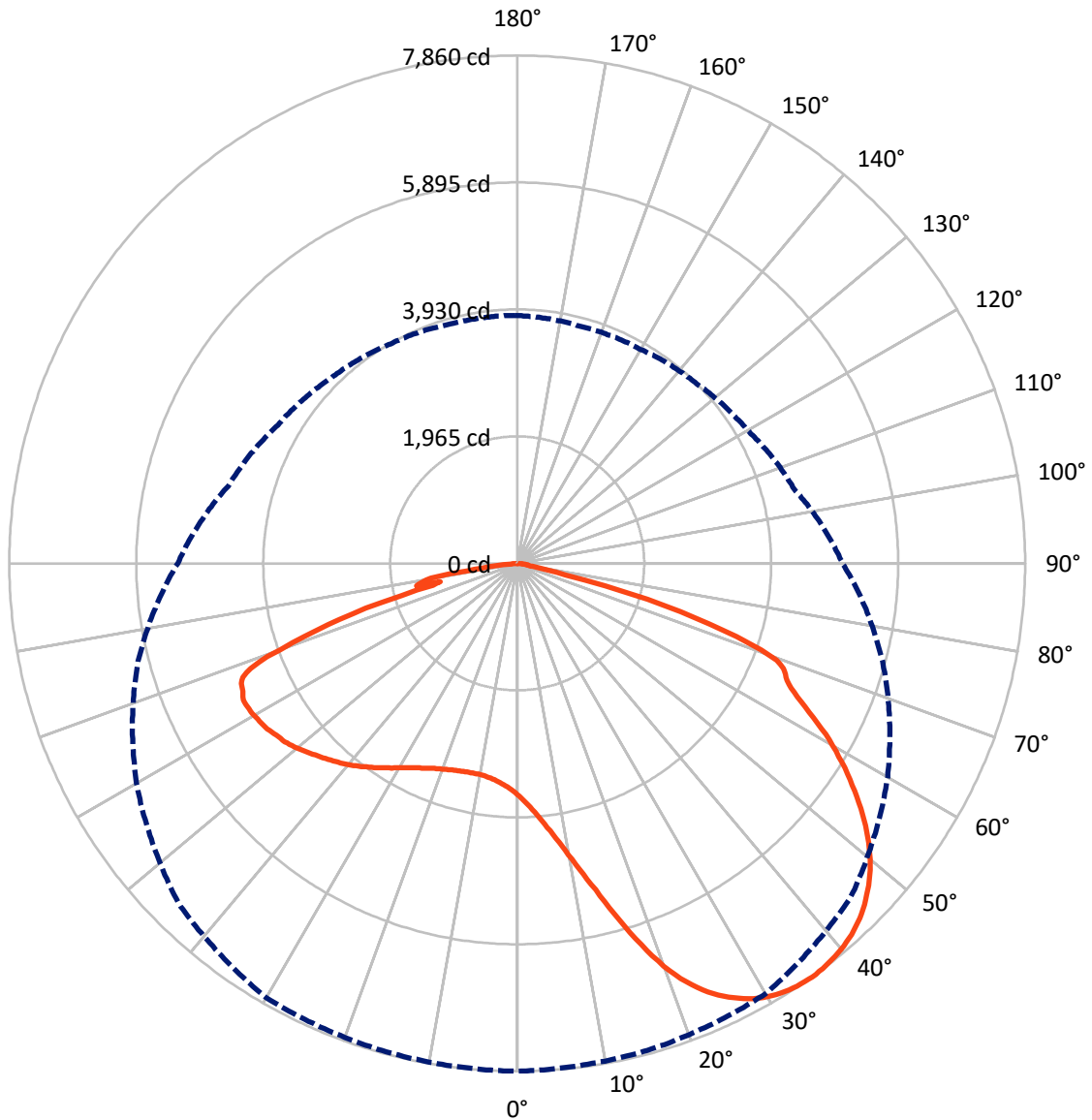
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 35-Deg Vertical

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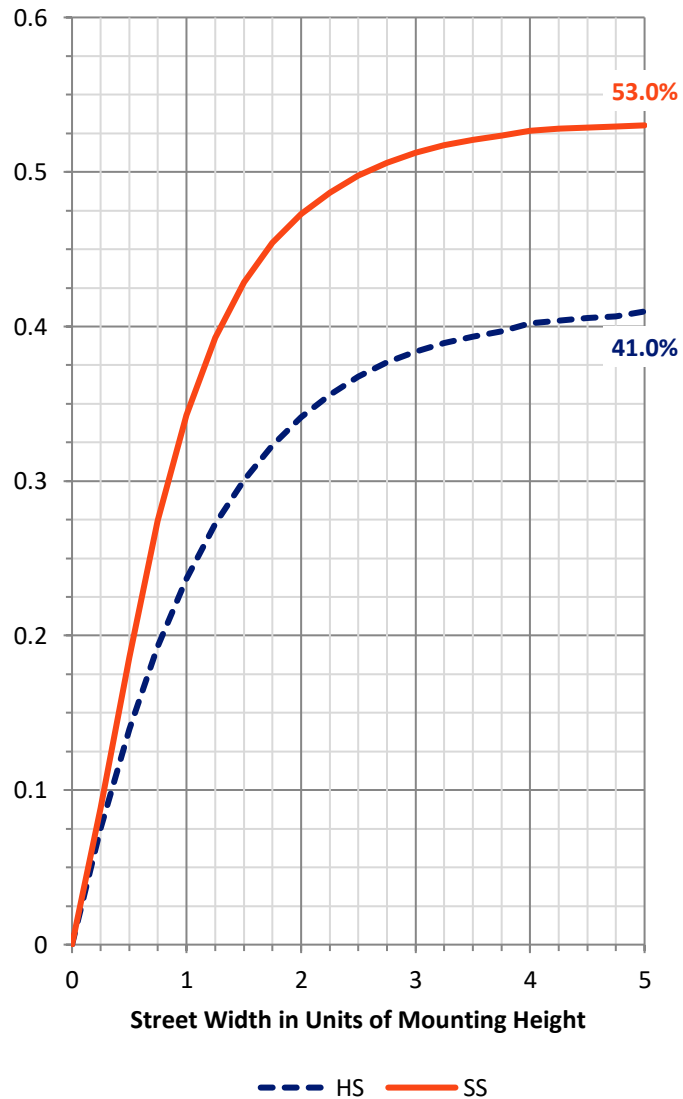
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11809.7	0.0	11809.7
	% Lamp	41.3	0.0	41.3
<b>Street Side</b>	Lumens	15166.3	0.0	15166.3
	% Lamp	53.0	0.0	53.0
<b>Total</b>	Lumens	26975.9	0.0	26975.9
	% Lamp	94.2	0.0	94.2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	357.4	1.3	1.2
10°-20°	1212.9	4.5	4.2
20°-30°	2328.2	8.6	8.1
30°-40°	3507.1	13.0	12.3
40°-50°	4586.5	17.0	16.0
50°-60°	5393.8	20.0	18.8
60°-70°	5627.6	20.9	19.7
70°-80°	3602.9	13.4	12.6
80°-90°	359.6	1.3	1.3
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°	26975.9	100.0	94.2
0°-180°	26975.9	100.0	94.2

**Coefficient of Utilization**



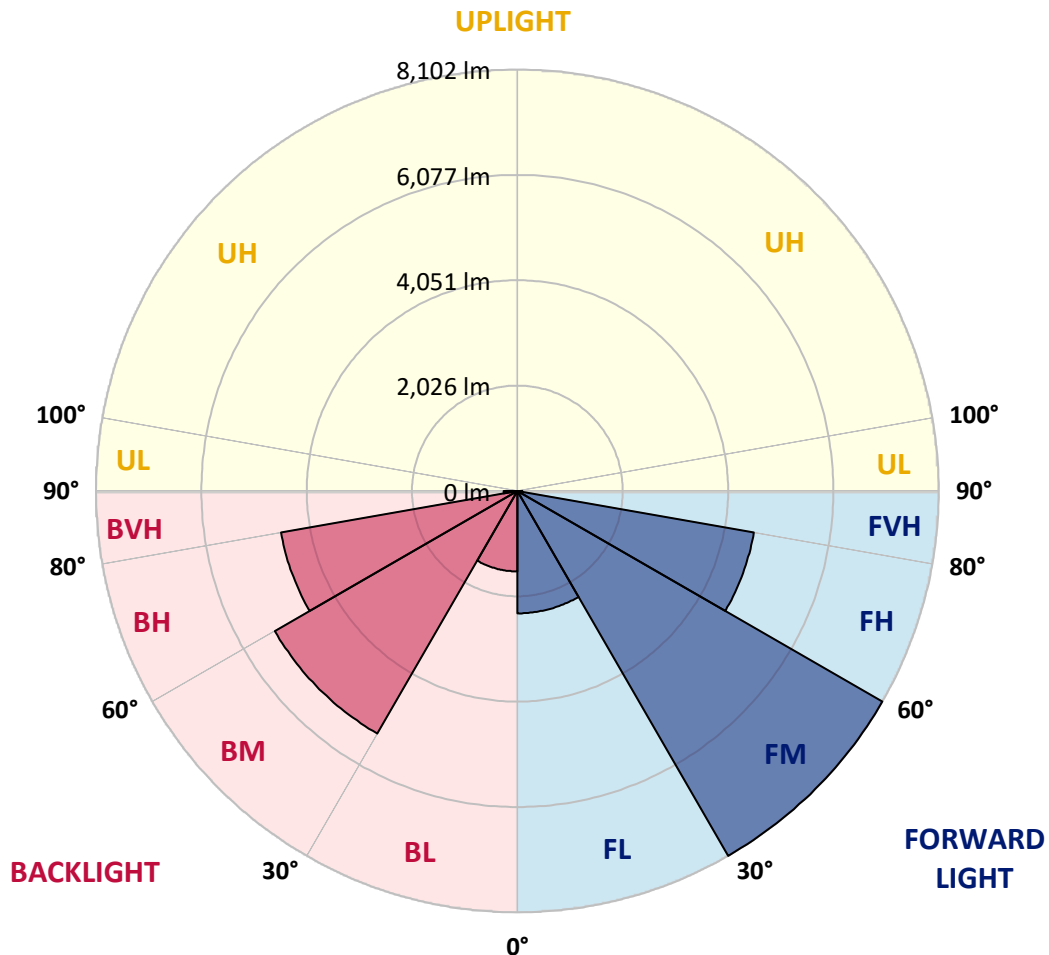
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.5	8.2			
FM (30°-60°)	8102.4	28.3			
FH (60°-80°)	4616.6	16.1			G2/5000
FVH (80°-90°)	94.7	0.3			G1/100
BL (0°-30°)	1545.9	5.4	B3/2500		
BM (30°-60°)	5385.1	18.8	B4/8500		
BH (60°-80°)	4613.9	16.1	B4/5000		G4/5000
BVH (80°-90°)	264.8	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	1652.1	5.8			

**BUG Rating: B4-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8
1°	3664.0	3662.9	3658.0	3649.3	3637.1	3624.2	3596.4	3581.7	3570.0	3560.0	3553.6
2°	3734.7	3731.4	3719.0	3697.8	3669.9	3640.6	3597.5	3569.8	3545.3	3525.4	3512.6
3°	3814.6	3808.1	3785.8	3751.8	3709.8	3663.1	3603.8	3561.7	3525.4	3496.6	3476.3
4°	3903.3	3892.4	3860.4	3812.6	3753.4	3688.9	3612.2	3557.0	3509.5	3472.9	3446.8
5°	4003.2	3988.1	3944.6	3879.0	3802.3	3719.1	3624.0	3554.6	3497.2	3452.8	3421.4
6°	4113.4	4092.2	4037.9	3953.7	3855.4	3751.5	3637.9	3555.6	3488.3	3437.2	3400.4
7°	4233.2	4207.1	4139.5	4037.1	3913.4	3788.3	3656.9	3560.3	3482.5	3425.0	3384.6
8°	4364.5	4331.5	4250.0	4124.8	3976.2	3830.2	3679.2	3569.0	3480.6	3414.9	3371.4
9°	4506.1	4469.9	4368.8	4219.7	4046.9	3873.9	3704.1	3579.1	3482.2	3409.2	3361.4
10°	4659.2	4612.4	4496.9	4323.4	4123.0	3922.0	3732.6	3593.4	3486.4	3408.0	3354.6
11°	4825.7	4773.0	4634.9	4435.1	4202.6	3973.9	3763.1	3610.8	3493.1	3409.5	3351.9
12°	5005.2	4940.1	4781.2	4550.3	4284.6	4030.7	3796.7	3629.4	3502.7	3413.0	3353.9
13°	5195.5	5123.2	4940.3	4674.1	4373.3	4090.7	3831.8	3650.0	3513.9	3419.7	3358.0
14°	5405.9	5321.3	5110.1	4806.4	4467.5	4150.9	3867.5	3670.7	3526.2	3428.3	3362.9
15°	5630.0	5533.8	5289.2	4945.5	4564.2	4213.4	3905.8	3692.9	3540.9	3438.6	3370.4
16°	5860.9	5750.0	5476.2	5094.9	4668.5	4280.1	3946.9	3718.3	3556.4	3450.2	3380.1
17°	6091.3	5969.0	5662.5	5248.1	4777.1	4349.3	3989.7	3743.8	3574.4	3462.4	3391.0
18°	6318.4	6183.0	5849.5	5402.4	4890.6	4420.0	4034.4	3772.8	3593.7	3477.7	3401.4
19°	6531.8	6388.4	6033.9	5552.0	5008.1	4493.7	4080.8	3803.0	3613.3	3493.7	3414.4
20°	6728.3	6582.4	6208.7	5701.3	5127.5	4570.7	4129.9	3835.1	3634.5	3510.7	3429.2
21°	6905.3	6762.3	6378.3	5846.2	5245.6	4650.7	4179.7	3868.5	3656.7	3527.0	3445.2
22°	7058.0	6916.2	6537.2	5987.3	5364.6	4732.8	4231.9	3903.3	3682.3	3546.1	3463.1
23°	7196.4	7064.3	6684.8	6122.4	5482.3	4818.7	4286.0	3938.9	3710.1	3566.5	3482.9
24°	7318.0	7192.1	6821.9	6249.3	5597.6	4906.9	4341.0	3976.5	3738.5	3589.7	3504.2
25°	7422.5	7306.2	6948.8	6373.6	5710.6	4996.4	4399.1	4015.4	3767.8	3614.7	3525.8
26°	7512.6	7407.1	7067.6	6489.8	5819.4	5084.9	4458.2	4055.6	3798.4	3640.2	3549.8
27°	7593.6	7493.0	7172.7	6601.4	5925.2	5175.4	4517.5	4096.3	3829.4	3667.4	3574.7
28°	7661.9	7566.1	7267.5	6708.4	6025.2	5264.9	4579.0	4135.9	3862.2	3697.0	3600.9
29°	7718.6	7630.0	7354.2	6810.0	6120.0	5354.2	4641.8	4177.4	3894.2	3728.9	3628.5
30°	7763.3	7681.0	7431.7	6908.1	6214.1	5440.7	4706.7	4219.7	3928.9	3760.6	3657.1
31°	7799.9	7722.0	7499.5	6998.3	6301.2	5526.5	4771.5	4261.1	3964.9	3792.8	3687.0
32°	7826.5	7755.5	7559.5	7082.6	6384.8	5610.8	4837.1	4304.5	4000.6	3826.3	3719.1
33°	7846.8	7779.7	7611.9	7162.7	6465.4	5692.8	4902.4	4349.6	4038.2	3859.6	3752.4
34°	7855.9	7794.1	7653.6	7234.4	6542.1	5772.8	4968.3	4392.4	4076.1	3894.1	3786.4
35°	7860.2	7801.0	7688.9	7300.7	6617.9	5850.1	5034.0	4436.1	4115.0	3929.7	3822.7
36°	7857.8	7803.0	7716.7	7361.8	6687.4	5925.0	5099.4	4479.8	4154.5	3966.0	3860.4
37°	7847.0	7796.8	7736.5	7417.3	6755.1	5997.2	5163.3	4525.0	4194.7	4003.9	3899.1
38°	7830.8	7785.7	7749.7	7467.1	6820.1	6068.0	5229.4	4571.3	4234.6	4043.4	3938.4
39°	7810.8	7772.0	7754.4	7509.3	6882.6	6137.5	5295.5	4617.4	4275.6	4083.0	3977.4
40°	7784.3	7752.2	7754.2	7547.6	6941.6	6204.8	5362.6	4666.5	4317.7	4123.7	4016.9
41°	7748.0	7725.3	7745.8	7579.8	6996.5	6269.4	5426.3	4717.9	4361.2	4164.9	4057.2
42°	7708.1	7692.0	7731.6	7607.6	7050.9	6333.0	5488.1	4769.7	4404.9	4207.9	4098.3
43°	7659.2	7655.4	7712.4	7628.1	7100.1	6396.1	5549.1	4819.9	4448.6	4252.8	4139.7
44°	7602.1	7613.2	7686.0	7639.9	7146.9	6456.4	5604.8	4872.5	4493.8	4297.5	4182.9

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CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7535.8	7560.9	7650.1	7648.8	7192.5	6516.7	5662.1	4927.8	4541.8	4343.0	4226.3
46°	7458.0	7505.5	7613.5	7650.3	7235.6	6576.3	5717.8	4985.1	4591.4	4389.8	4271.1
47°	7374.3	7437.5	7568.4	7645.1	7277.5	6636.7	5771.8	5042.8	4641.7	4436.9	4317.6
48°	7284.8	7363.5	7516.3	7631.0	7314.7	6691.7	5822.4	5101.3	4694.1	4485.0	4364.7
49°	7182.9	7279.4	7459.3	7614.5	7347.3	6745.2	5870.9	5160.4	4748.1	4535.9	4412.9
50°	7073.0	7184.8	7390.4	7587.3	7376.2	6797.6	5917.7	5218.9	4802.4	4587.1	4463.6
51°	6949.1	7081.4	7315.0	7554.6	7401.1	6845.8	5964.9	5278.2	4859.4	4642.3	4514.3
52°	6817.5	6964.1	7228.6	7511.4	7421.0	6889.9	6009.0	5339.9	4917.8	4699.4	4569.4
53°	6677.4	6839.2	7136.8	7460.0	7435.6	6930.1	6050.7	5398.3	4977.1	4756.1	4621.8
54°	6532.4	6701.3	7034.3	7403.1	7441.0	6965.6	6090.5	5455.4	5039.9	4815.0	4678.2
55°	6379.5	6554.4	6920.9	7335.9	7438.0	6994.3	6125.1	5506.7	5103.2	4877.2	4735.9
56°	6216.6	6404.9	6797.5	7259.8	7428.2	7016.1	6156.6	5556.4	5166.8	4940.9	4795.1
57°	6058.5	6248.1	6671.9	7177.4	7405.6	7029.9	6184.6	5601.8	5230.8	5008.1	4856.0
58°	5891.1	6088.9	6537.3	7086.0	7371.5	7032.3	6203.4	5643.0	5295.1	5078.0	4913.3
59°	5725.7	5926.7	6402.4	6984.2	7326.1	7022.5	6214.6	5679.9	5359.4	5151.6	4969.8
60°	5548.0	5763.4	6260.2	6874.8	7268.3	7000.6	6220.0	5711.4	5423.9	5226.1	5025.7
61°	5363.7	5591.5	6118.2	6761.5	7197.2	6968.5	6213.8	5736.7	5488.5	5301.7	5082.0
62°	5170.9	5416.4	5977.3	6639.2	7116.9	6919.2	6196.3	5754.6	5550.7	5376.6	5137.2
63°	4980.9	5240.1	5838.0	6511.6	7027.4	6851.5	6164.0	5764.7	5611.9	5450.2	5190.8
64°	4802.2	5069.0	5699.8	6382.0	6921.9	6766.1	6116.2	5767.0	5671.8	5523.9	5241.8
65°	4657.8	4912.8	5565.2	6249.3	6808.0	6664.6	6056.3	5757.4	5729.2	5598.5	5290.2
66°	4551.7	4784.1	5435.9	6117.3	6679.4	6542.6	5974.6	5733.5	5779.0	5680.8	5334.1
67°	4491.6	4690.0	5318.8	5987.4	6533.1	6405.5	5869.7	5693.9	5821.0	5758.3	5374.8
68°	4429.1	4625.7	5216.7	5858.7	6371.2	6244.4	5685.7	5625.1	5852.2	5831.4	5373.2
69°	4286.3	4563.2	5133.8	5730.8	6190.6	6032.6	5390.6	5488.4	5863.7	5897.1	5351.2
70°	4004.5	4448.2	5068.2	5601.6	6001.3	5736.5	4982.0	5261.2	5856.2	5950.5	5354.9
71°	3577.5	4220.9	5008.9	5479.0	5775.5	5352.0	4484.0	4932.7	5800.8	5984.4	5324.0
72°	3116.3	3850.5	4938.4	5352.1	5499.1	4895.9	4013.0	4552.2	5666.0	5970.9	5261.1
73°	2640.2	3371.1	4826.4	5216.1	5177.9	4430.2	3617.1	4174.8	5453.1	5898.1	5175.1
74°	2091.0	2854.7	4608.3	5052.5	4817.3	3976.6	3145.0	3816.8	5179.4	5763.1	5005.8
75°	1402.4	2297.8	4224.2	4815.5	4408.0	3477.4	2391.7	3397.2	4871.9	5552.7	4752.0
76°	763.3	1630.5	3706.3	4470.0	3981.1	2795.6	1638.4	2630.0	4568.1	5211.4	4408.1
77°	499.2	910.1	3150.5	3976.2	3515.1	1894.7	891.4	1862.7	4224.7	4711.2	4001.0
78°	237.3	670.3	2482.5	3294.4	2924.8	1038.6	432.6	1099.8	3715.1	4030.8	3501.1
79°	189.0	434.8	1637.1	2496.1	2165.0	770.8	269.6	536.0	2815.9	3287.9	2938.8
80°	163.0	199.3	865.7	1646.6	1326.2	519.7	233.2	298.4	1916.8	2624.5	2416.0
81°	140.2	168.3	553.0	862.0	946.8	268.6	196.8	249.8	1020.9	2075.0	2191.7
82°	119.7	143.2	246.6	555.1	583.0	226.7	160.5	201.2	490.1	1529.2	1853.2
83°	100.8	120.0	197.9	251.9	219.2	186.5	135.2	152.6	322.5	1145.3	1514.6
84°	83.7	98.7	160.3	197.3	175.8	144.4	111.2	123.4	258.8	806.1	1172.6
85°	66.5	80.9	122.6	162.8	135.4	110.9	88.1	98.3	211.9	519.9	725.0
86°	49.4	63.1	91.8	130.5	99.6	87.3	66.5	76.3	165.1	373.5	512.3
87°	33.7	45.4	66.5	95.1	73.5	63.8	46.4	56.6	120.6	227.1	299.5
88°	19.5	29.6	41.2	76.4	47.5	40.3	32.2	43.2	79.7	83.9	89.2
89°	8.3	12.9	17.2	58.0	21.4	20.3	18.0	29.8	54.2	56.9	60.3



REPORT NUMBER: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8	3602.8
1°	3550.5	3550.1	3553.0	3562.4	3571.7	3585.0	3599.2	3602.3	3616.2	3631.3	3643.2
2°	3505.4	3503.7	3510.5	3523.8	3542.2	3564.6	3592.6	3609.5	3640.3	3670.0	3695.6
3°	3466.2	3463.7	3472.3	3490.2	3516.4	3550.1	3589.8	3621.6	3666.8	3713.4	3754.9
4°	3433.4	3430.5	3440.8	3462.8	3496.3	3538.9	3590.5	3636.4	3697.9	3761.5	3819.9
5°	3405.7	3401.5	3413.8	3440.4	3479.3	3531.8	3594.1	3654.3	3734.1	3815.4	3889.5
6°	3382.4	3377.5	3391.8	3421.3	3467.6	3527.8	3600.8	3676.1	3772.4	3873.5	3969.4
7°	3362.4	3357.9	3372.6	3406.3	3458.1	3527.5	3612.4	3702.2	3816.3	3938.8	4056.0
8°	3347.8	3342.4	3359.0	3395.8	3452.5	3530.1	3626.5	3729.9	3862.8	4009.7	4149.4
9°	3335.5	3330.1	3348.0	3388.9	3450.4	3535.5	3642.6	3760.8	3914.0	4085.4	4249.2
10°	3327.6	3321.6	3341.4	3385.3	3451.3	3542.9	3660.9	3794.8	3968.2	4165.6	4357.3
11°	3323.9	3317.2	3338.7	3386.0	3456.9	3553.5	3683.2	3832.8	4029.2	4251.9	4474.7
12°	3322.6	3316.4	3339.0	3390.0	3464.9	3567.9	3708.1	3872.6	4091.5	4343.9	4596.5
13°	3325.5	3317.6	3341.3	3396.1	3475.1	3583.9	3735.1	3915.4	4157.4	4441.1	4729.5
14°	3328.7	3322.0	3347.5	3404.9	3489.0	3602.2	3763.0	3959.2	4226.1	4543.1	4869.3
15°	3334.9	3327.4	3355.2	3415.6	3505.0	3623.5	3792.4	4004.7	4297.2	4651.2	5020.1
16°	3342.2	3334.7	3363.5	3426.5	3521.0	3646.2	3823.9	4053.6	4372.0	4766.0	5177.6
17°	3350.6	3343.0	3373.8	3440.0	3539.6	3670.8	3857.5	4104.1	4450.7	4885.2	5338.3
18°	3360.8	3353.0	3386.2	3453.8	3559.3	3695.1	3891.4	4155.8	4529.8	5009.9	5502.3
19°	3372.2	3365.3	3398.8	3469.8	3578.9	3722.4	3927.7	4208.9	4612.4	5137.1	5664.3
20°	3386.9	3379.2	3414.4	3487.6	3599.9	3749.5	3965.4	4264.2	4700.9	5265.1	5819.1
21°	3402.9	3396.2	3431.4	3507.0	3620.9	3778.4	4005.7	4321.9	4788.3	5398.6	5969.8
22°	3420.5	3413.4	3450.8	3528.2	3644.5	3808.9	4046.5	4381.3	4883.1	5527.0	6114.4
23°	3440.0	3434.2	3471.9	3550.8	3669.8	3840.8	4087.4	4442.7	4981.1	5654.3	6252.0
24°	3460.9	3457.2	3495.1	3575.5	3696.1	3872.5	4129.6	4505.5	5077.9	5775.4	6380.1
25°	3483.8	3480.8	3520.0	3601.4	3725.0	3906.1	4173.8	4567.9	5176.3	5894.1	6502.2
26°	3509.0	3507.5	3546.7	3627.9	3754.7	3939.9	4217.6	4633.2	5275.9	6004.4	6620.4
27°	3534.2	3535.9	3574.6	3655.7	3785.5	3973.0	4262.3	4699.4	5375.9	6111.0	6729.7
28°	3561.2	3568.1	3603.5	3685.7	3817.6	4009.2	4307.3	4768.7	5474.8	6213.5	6835.9
29°	3590.4	3601.5	3634.2	3716.0	3850.8	4045.2	4353.3	4836.0	5570.3	6310.5	6937.2
30°	3621.8	3637.8	3667.4	3747.1	3882.9	4082.5	4398.7	4904.7	5665.7	6402.3	7031.6
31°	3654.7	3674.4	3702.0	3779.1	3917.5	4120.0	4443.8	4973.6	5756.5	6488.5	7120.3
32°	3689.0	3714.0	3736.8	3814.2	3953.5	4159.1	4490.3	5043.4	5843.7	6570.6	7203.8
33°	3724.9	3753.9	3772.4	3848.7	3989.4	4197.9	4536.1	5113.7	5929.1	6652.2	7283.6
34°	3760.5	3794.1	3808.1	3884.9	4027.0	4237.5	4582.3	5183.7	6008.0	6728.3	7357.6
35°	3796.2	3835.4	3843.9	3922.4	4064.5	4278.6	4628.8	5254.5	6087.0	6803.9	7423.8
36°	3833.1	3877.4	3879.7	3961.0	4102.4	4319.6	4678.3	5326.6	6163.3	6872.0	7485.2
37°	3867.1	3918.5	3916.4	3999.2	4141.5	4362.3	4728.0	5395.8	6235.7	6939.3	7540.4
38°	3904.7	3961.6	3954.9	4040.5	4181.5	4403.8	4779.3	5466.5	6307.7	7002.8	7592.0
39°	3942.3	4003.5	3993.3	4080.9	4222.3	4448.7	4830.7	5534.1	6374.4	7063.2	7635.5
40°	3981.1	4044.0	4033.5	4122.4	4264.8	4491.9	4883.0	5600.3	6438.8	7120.7	7673.5
41°	4021.4	4082.6	4073.7	4164.7	4308.2	4536.5	4935.8	5665.9	6500.6	7174.6	7702.0
42°	4061.4	4121.5	4115.4	4206.1	4353.8	4583.6	4989.7	5728.1	6563.4	7228.4	7724.2
43°	4102.0	4159.0	4158.6	4251.8	4398.4	4632.0	5046.9	5789.1	6624.6	7276.0	7743.1
44°	4144.8	4198.3	4202.9	4296.7	4444.9	4683.3	5104.3	5849.3	6684.9	7319.7	7752.6



REPORT NUMBER: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4188.8	4237.4	4247.3	4343.4	4493.4	4732.2	5162.5	5908.3	6742.0	7361.9	7757.4
46°	4233.7	4273.9	4293.0	4389.2	4541.5	4784.9	5220.2	5962.5	6797.2	7399.6	7753.4
47°	4280.9	4309.8	4341.2	4435.8	4592.0	4836.0	5278.9	6012.3	6850.2	7434.7	7743.3
48°	4328.9	4348.2	4390.7	4484.0	4642.8	4889.7	5337.4	6062.0	6898.8	7463.7	7727.4
49°	4378.8	4387.9	4439.9	4531.4	4694.4	4944.5	5393.8	6108.7	6944.8	7489.5	7704.0
50°	4429.5	4426.1	4491.5	4581.0	4748.4	5001.9	5450.6	6153.0	6984.8	7512.6	7675.2
51°	4483.9	4466.1	4543.5	4631.6	4801.2	5058.1	5506.1	6193.0	7022.1	7527.8	7637.4
52°	4536.5	4504.6	4595.6	4684.5	4859.4	5114.4	5560.2	6229.9	7052.4	7537.5	7590.0
53°	4585.3	4535.2	4642.9	4737.2	4917.0	5172.4	5609.5	6263.1	7075.3	7539.2	7535.7
54°	4627.6	4556.9	4686.9	4792.6	4978.1	5229.4	5656.5	6288.5	7093.2	7537.4	7475.0
55°	4665.7	4580.0	4725.2	4848.9	5038.9	5287.3	5699.6	6309.8	7102.5	7523.6	7408.4
56°	4705.3	4608.1	4762.7	4906.9	5104.5	5346.1	5736.3	6326.2	7101.6	7501.8	7331.4
57°	4742.9	4638.0	4800.9	4964.0	5168.7	5405.3	5770.8	6334.9	7089.5	7467.4	7246.0
58°	4779.8	4659.5	4837.5	5025.7	5236.4	5462.1	5798.5	6338.7	7066.8	7423.7	7150.6
59°	4809.9	4675.5	4867.3	5083.1	5307.3	5516.4	5820.6	6335.6	7033.0	7368.5	7047.7
60°	4835.7	4694.7	4893.2	5141.1	5379.7	5570.1	5839.5	6323.3	6988.6	7301.8	6935.3
61°	4862.3	4712.9	4920.0	5195.7	5453.5	5624.4	5851.7	6296.9	6934.1	7221.9	6816.0
62°	4888.3	4724.8	4945.8	5253.0	5523.8	5679.6	5855.6	6257.6	6865.2	7129.7	6690.5
63°	4908.5	4734.0	4968.5	5307.6	5591.4	5730.0	5852.4	6207.2	6778.9	7024.7	6560.2
64°	4925.8	4738.0	4988.6	5359.2	5659.4	5777.1	5842.3	6142.3	6679.9	6911.6	6428.5
65°	4927.3	4702.1	4990.2	5407.4	5727.7	5818.9	5816.8	6057.6	6562.0	6782.8	6290.7
66°	4880.8	4671.4	4939.5	5447.3	5794.9	5851.4	5779.0	5951.3	6426.5	6639.3	6151.0
67°	4854.3	4655.8	4912.1	5478.2	5854.7	5877.5	5718.4	5795.5	6273.8	6482.9	6014.8
68°	4843.4	4597.5	4893.0	5465.9	5911.3	5891.4	5605.3	5530.7	6076.6	6313.3	5876.5
69°	4773.9	4431.8	4817.1	5435.1	5958.3	5881.5	5401.1	5142.3	5794.4	6120.3	5739.2
70°	4637.0	4130.9	4681.8	5431.5	5994.2	5839.7	5080.2	4641.6	5418.5	5898.7	5601.3
71°	4419.2	3687.0	4465.3	5393.0	6000.4	5734.5	4676.7	4126.3	4949.3	5630.5	5453.8
72°	4070.3	3273.7	4119.0	5329.2	5958.4	5546.5	4251.6	3671.7	4450.1	5305.0	5300.0
73°	3639.4	2881.5	3674.8	5230.2	5848.6	5275.0	3848.1	3224.1	3968.1	4928.1	5123.4
74°	3216.8	2443.5	3266.9	5052.7	5669.3	4968.9	3434.9	2656.8	3478.3	4499.8	4916.5
75°	2772.3	1860.8	2833.4	4779.6	5399.3	4631.1	2878.3	1847.2	2887.9	4029.1	4623.9
76°	2237.7	1344.2	2295.0	4419.3	4982.5	4270.9	2069.9	1045.9	2081.2	3536.7	4221.5
77°	1722.2	1224.4	1819.1	4005.0	4417.1	3836.3	1267.1	766.3	1217.3	2995.3	3666.7
78°	1620.4	1596.9	1766.2	3492.1	3723.4	3155.7	625.3	501.7	900.6	2325.4	2931.7
79°	1996.7	1518.9	2126.4	2898.4	3041.9	2194.1	332.9	237.1	598.1	1540.0	2117.3
80°	2333.5	1440.8	1817.3	2313.2	2469.1	1239.5	276.6	202.0	295.6	869.8	1302.9
81°	1821.2	1355.6	1508.3	2099.3	1896.3	595.3	220.4	173.1	245.2	565.2	940.9
82°	1308.9	778.1	1194.4	1735.6	1323.5	352.1	164.2	146.5	208.5	262.4	589.0
83°	745.8	553.2	676.6	1371.8	915.7	272.2	136.5	122.3	170.4	199.7	237.1
84°	420.7	328.3	408.6	1006.5	554.9	223.4	111.3	99.0	132.9	159.9	187.7
85°	279.2	106.3	328.3	564.4	404.7	174.5	88.6	78.6	101.5	121.0	154.8
86°	138.6	72.0	248.0	451.9	254.5	126.0	68.0	58.3	78.7	87.9	123.6
87°	96.2	37.7	167.7	339.3	106.1	88.9	49.8	38.0	56.2	63.1	86.6
88°	53.9	3.4	87.4	226.8	72.0	60.5	34.3	21.5	33.6	38.4	50.7
89°	11.9	2.2	7.9	114.2	37.9	32.1	18.8	8.0	14.5	15.3	14.7



REPORT NUMBER: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	3602.8	3602.8	3602.8
1°	3653.7	3660.9	3664.0
2°	3717.6	3732.0	3734.7
3°	3787.1	3808.1	3814.6
4°	3865.0	3896.1	3903.3
5°	3952.2	3992.6	4003.2
6°	4048.8	4098.8	4113.4
7°	4152.1	4216.2	4233.2
8°	4263.8	4341.8	4364.5
9°	4387.4	4476.5	4506.1
10°	4518.3	4625.6	4659.2
11°	4661.1	4789.8	4825.7
12°	4815.9	4961.1	5005.2
13°	4982.0	5147.4	5195.5
14°	5157.8	5348.3	5405.9
15°	5341.4	5556.4	5630.0
16°	5530.0	5773.4	5860.9
17°	5725.0	5994.8	6091.3
18°	5916.5	6214.6	6318.4
19°	6102.6	6422.5	6531.8
20°	6282.4	6620.3	6728.3
21°	6450.5	6799.3	6905.3
22°	6608.1	6959.4	7058.0
23°	6758.5	7101.9	7196.4
24°	6897.8	7229.9	7318.0
25°	7028.9	7340.2	7422.5
26°	7146.3	7438.4	7512.6
27°	7255.7	7521.6	7593.6
28°	7352.4	7594.1	7661.9
29°	7440.0	7655.1	7718.6
30°	7514.5	7707.4	7763.3
31°	7582.8	7747.0	7799.9
32°	7640.6	7780.8	7826.5
33°	7690.1	7804.2	7846.8
34°	7730.2	7819.6	7855.9
35°	7764.1	7825.8	7860.2
36°	7790.0	7825.4	7857.8
37°	7806.4	7820.1	7847.0
38°	7817.1	7808.1	7830.8
39°	7820.5	7792.1	7810.8
40°	7818.1	7770.5	7784.3
41°	7808.3	7744.2	7748.0
42°	7792.7	7712.7	7708.1
43°	7770.8	7677.6	7659.2
44°	7741.6	7634.1	7602.1



REPORT NUMBER: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	7708.7	7585.5	7535.8
46°	7668.5	7528.1	7458.0
47°	7623.2	7462.5	7374.3
48°	7571.5	7390.4	7284.8
49°	7513.4	7306.7	7182.9
50°	7447.2	7217.3	7073.0
51°	7371.2	7117.1	6949.1
52°	7285.8	7002.5	6817.5
53°	7190.5	6880.2	6677.4
54°	7090.5	6749.0	6532.4
55°	6981.9	6605.4	6379.5
56°	6862.1	6456.8	6216.6
57°	6735.3	6302.8	6058.5
58°	6600.1	6140.8	5891.1
59°	6463.8	5979.0	5725.7
60°	6325.8	5812.9	5548.0
61°	6182.8	5641.7	5363.7
62°	6043.5	5468.5	5170.9
63°	5905.7	5293.7	4980.9
64°	5772.3	5132.0	4802.2
65°	5644.4	4978.2	4657.8
66°	5523.4	4852.7	4551.7
67°	5408.1	4760.1	4491.6
68°	5304.6	4696.6	4429.1
69°	5214.5	4630.9	4286.3
70°	5145.8	4520.9	4004.5
71°	5075.1	4309.6	3577.5
72°	4985.0	3937.5	3116.3
73°	4846.3	3450.3	2640.2
74°	4593.9	2910.1	2091.0
75°	4196.1	2342.1	1402.4
76°	3676.4	1694.6	763.3
77°	3095.2	973.7	499.2
78°	2367.9	718.9	237.3
79°	1518.5	464.2	189.0
80°	810.0	209.6	163.0
81°	531.1	173.6	140.2
82°	255.7	147.4	119.7
83°	197.4	123.8	100.8
84°	158.5	102.2	83.7
85°	120.4	83.6	66.5
86°	89.6	65.1	49.4
87°	64.0	46.5	33.7
88°	38.5	29.5	19.5
89°	15.1	12.5	8.3



REPORT NUMBER: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436763

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T5)

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)