

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: P1436778

Luminaire Tested: XAS300-SFPM (3000K-180W-T3-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436778
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-T3-HSS)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 38695 (1 lamp)
Luminaire Lumens: 23700.6 lumens
Efficiency: 61.2%
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

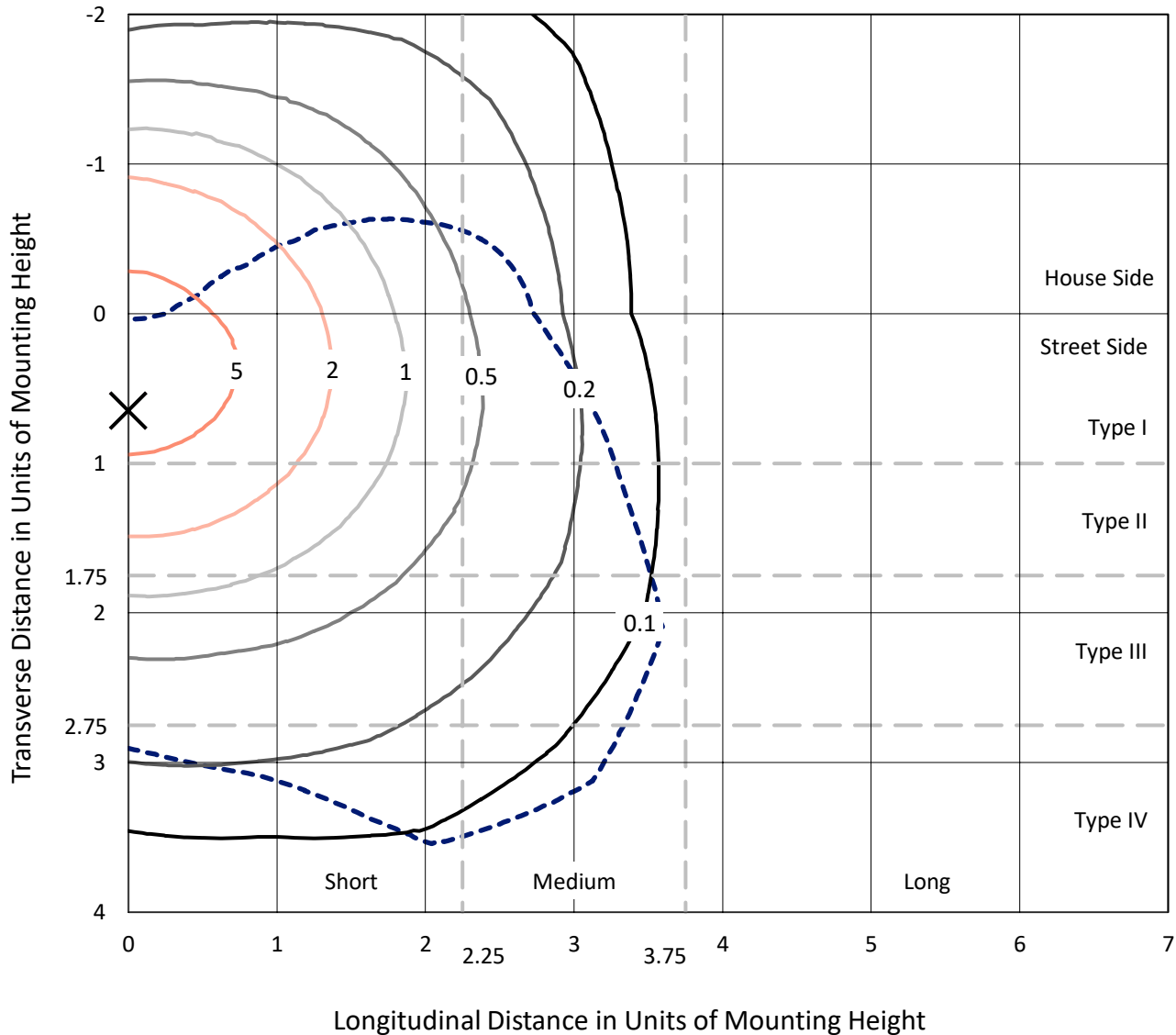
Input Watts (W): 186.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

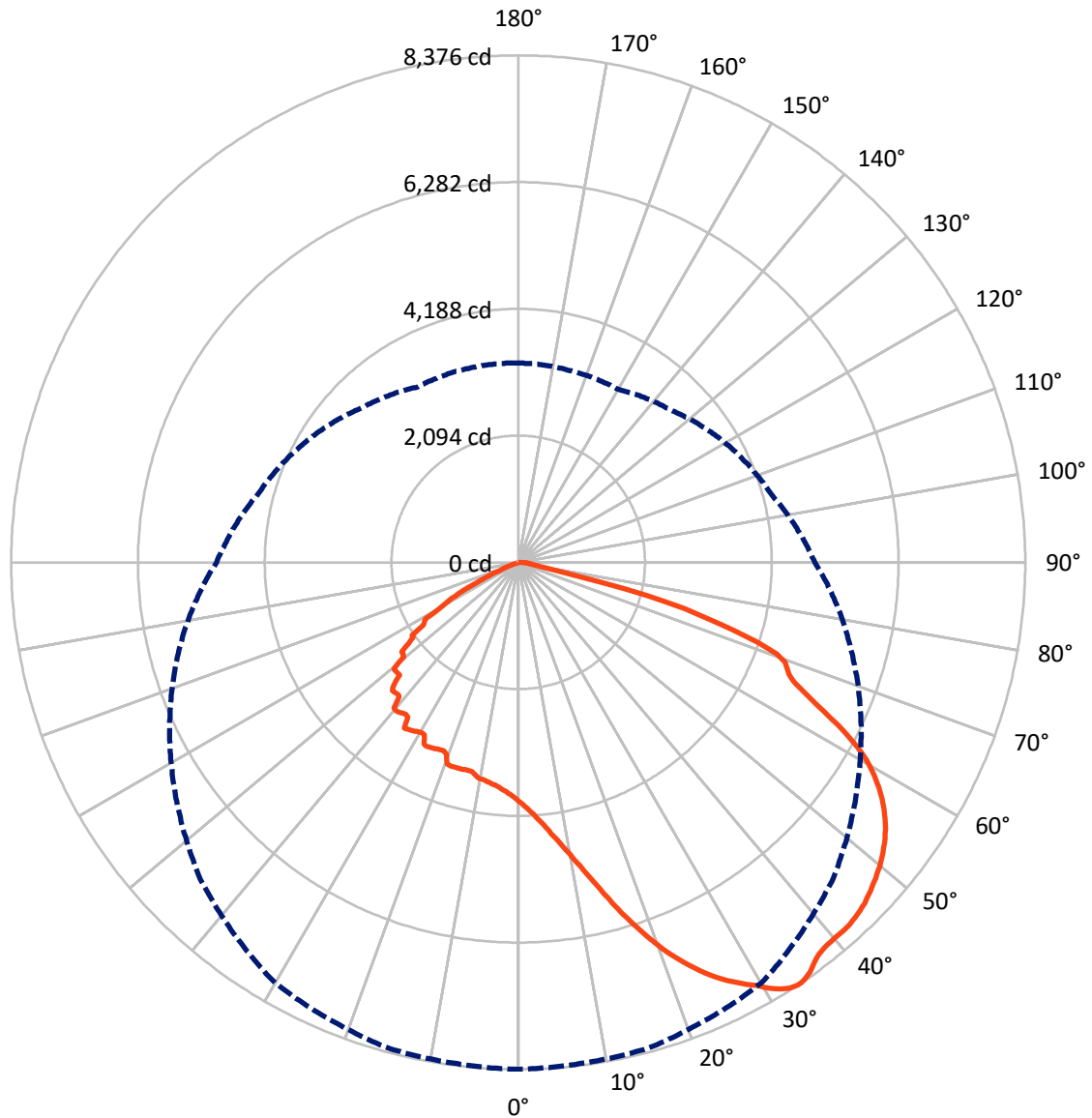
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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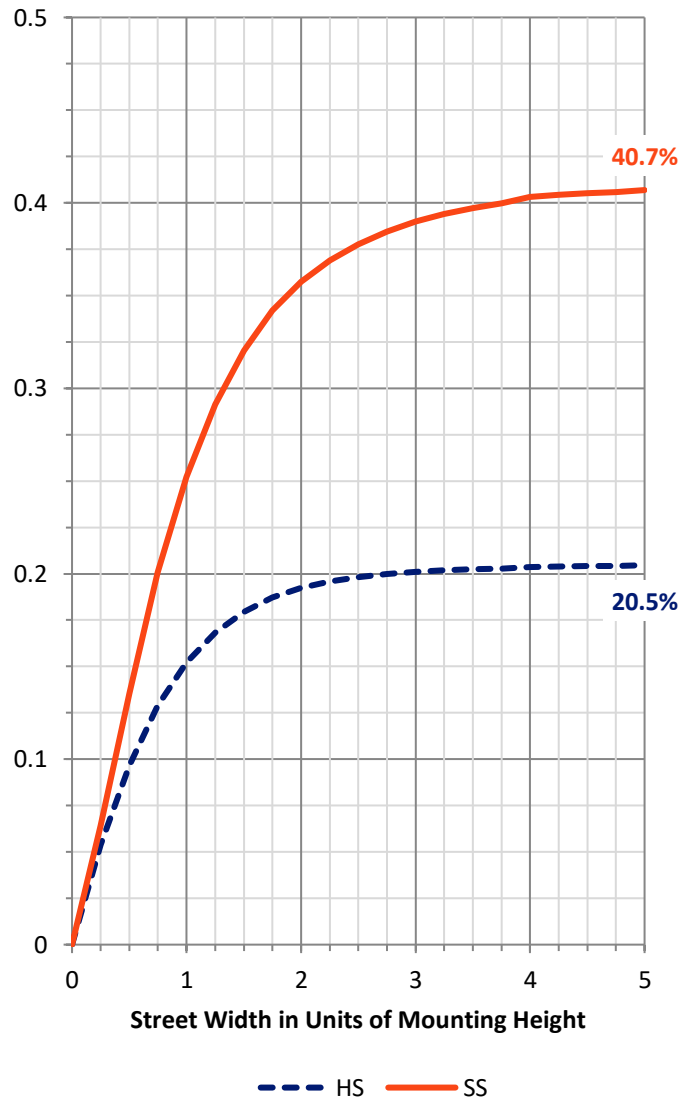
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7958.6	0.0	7958.6
	% Lamp	20.6	0.0	20.6
Street Side	Lumens	15741.9	0.0	15741.9
	% Lamp	40.7	0.0	40.7
Total	Lumens	23700.6	0.0	23700.6
	% Lamp	61.2	0.0	61.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	389.8	1.6	1.0
10°-20°	1277.5	5.4	3.3
20°-30°	2354.0	9.9	6.1
30°-40°	3432.9	14.5	8.9
40°-50°	4237.1	17.9	11.0
50°-60°	4732.3	20.0	12.2
60°-70°	4432.5	18.7	11.5
70°-80°	2628.6	11.1	6.8
80°-90°	215.8	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°	23700.6	100.0	61.2
0°-180°	23700.6	100.0	61.2

Coefficient of Utilization



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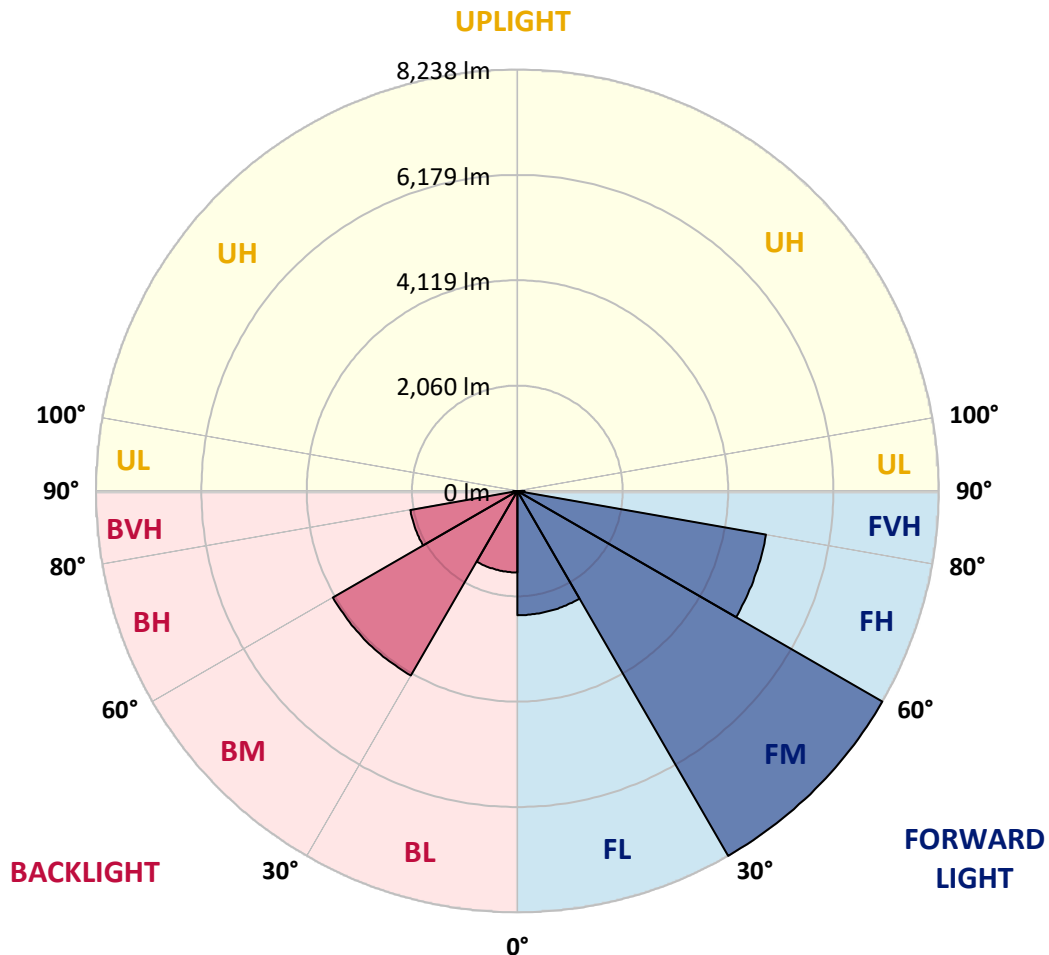
CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.0	6.3			
FM (30°-60°)	8238.0	21.3			
FH (60°-80°)	4934.9	12.8			G2/5000
FVH (80°-90°)	140.0	0.4			G2/225
BL (0°-30°)	1592.3	4.1	B3/2500		
BM (30°-60°)	4164.3	10.8	B3/5000		
BH (60°-80°)	2126.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	75.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	14994.4	38.8			

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1
1°	4026.5	4026.8	4021.9	4014.1	4003.5	3988.7	3960.2	3945.2	3931.4	3921.2	3913.1
2°	4096.8	4094.1	4080.5	4060.4	4036.0	4006.1	3961.9	3932.2	3905.4	3883.8	3867.9
3°	4173.6	4167.9	4146.1	4114.0	4072.9	4026.9	3966.8	3922.6	3883.6	3851.3	3829.6
4°	4260.6	4250.5	4219.8	4174.0	4115.7	4053.0	3976.0	3916.9	3864.5	3823.4	3795.5
5°	4356.0	4341.8	4299.5	4238.4	4164.0	4083.0	3989.5	3915.2	3850.5	3800.4	3766.3
6°	4459.3	4440.8	4388.5	4311.1	4216.8	4114.9	4004.0	3916.0	3839.3	3780.2	3738.9
7°	4573.0	4551.1	4485.2	4390.0	4272.8	4148.8	4019.7	3917.4	3830.6	3762.7	3717.9
8°	4692.9	4666.2	4589.7	4474.4	4333.3	4186.3	4038.2	3921.0	3823.4	3749.3	3702.1
9°	4825.6	4792.3	4702.5	4564.7	4398.6	4227.1	4059.0	3925.8	3816.8	3740.9	3688.4
10°	4968.7	4929.8	4822.4	4661.4	4468.0	4270.1	4080.3	3931.5	3811.1	3734.2	3677.2
11°	5120.8	5075.8	4953.1	4766.3	4541.5	4316.5	4104.7	3939.5	3809.2	3729.0	3667.8
12°	5284.5	5232.4	5090.4	4876.2	4618.6	4365.5	4121.3	3940.5	3811.3	3724.9	3662.7
13°	5464.6	5401.6	5237.0	4993.9	4701.4	4406.5	4140.0	3942.6	3803.9	3722.4	3657.4
14°	5652.7	5579.5	5389.3	5115.9	4789.1	4451.2	4162.4	3945.6	3799.6	3722.8	3618.0
15°	5847.2	5766.5	5550.2	5240.9	4870.2	4498.7	4187.9	3954.5	3795.6	3714.8	3593.4
16°	6046.2	5952.3	5715.1	5372.6	4957.4	4551.4	4222.6	3970.5	3797.1	3701.8	3594.1
17°	6243.8	6144.0	5881.5	5507.2	5047.0	4609.9	4253.6	3982.2	3802.3	3671.6	3598.9
18°	6439.2	6330.8	6048.8	5644.4	5135.1	4673.2	4288.7	3999.1	3806.9	3653.6	3605.7
19°	6630.9	6513.9	6215.0	5778.6	5231.1	4733.4	4330.6	4024.5	3817.1	3653.2	3615.5
20°	6816.5	6694.0	6376.1	5899.6	5326.7	4797.5	4375.8	4052.3	3834.0	3656.3	3623.9
21°	6990.5	6866.1	6532.3	6030.6	5428.6	4868.5	4420.5	4074.7	3850.1	3661.9	3624.9
22°	7155.2	7029.1	6682.4	6148.9	5522.8	4944.0	4458.0	4083.1	3854.5	3676.5	3624.2
23°	7311.4	7187.7	6830.0	6265.3	5622.1	5021.2	4481.1	4098.2	3839.6	3690.5	3594.3
24°	7460.3	7337.2	6972.7	6381.0	5720.0	5090.7	4511.7	4125.7	3843.9	3697.3	3474.5
25°	7599.3	7483.5	7111.8	6497.4	5816.9	5153.6	4554.1	4141.9	3847.9	3704.7	3432.8
26°	7721.8	7611.6	7247.1	6608.3	5916.0	5207.5	4596.0	4158.9	3852.6	3716.7	3439.0
27°	7829.0	7727.9	7375.7	6716.7	6014.5	5269.2	4626.5	4187.2	3873.9	3718.2	3449.0
28°	7932.5	7832.7	7497.0	6823.3	6111.1	5342.0	4668.1	4216.2	3895.1	3647.7	3455.5
29°	8036.6	7938.6	7606.7	6923.1	6199.1	5420.1	4720.9	4239.7	3903.6	3580.5	3460.6
30°	8162.8	8059.3	7715.7	7026.0	6283.0	5487.8	4774.8	4253.7	3908.4	3548.6	3467.4
31°	8266.3	8170.2	7829.6	7138.1	6350.4	5554.2	4823.1	4273.1	3925.4	3541.8	3477.4
32°	8344.7	8257.7	7936.2	7255.1	6428.8	5623.3	4862.5	4302.0	3944.9	3545.8	3395.2
33°	8376.0	8308.6	8028.7	7365.3	6521.9	5700.2	4901.4	4328.9	3947.8	3559.7	3300.4
34°	8358.8	8303.1	8082.6	7466.4	6619.9	5782.2	4950.4	4345.3	3960.6	3575.5	3293.2
35°	8301.8	8255.9	8082.0	7541.7	6713.0	5865.6	5006.4	4369.7	3971.8	3586.6	3298.1
36°	8225.3	8187.3	8041.5	7589.5	6795.7	5943.0	5061.0	4399.6	3980.2	3589.4	3309.7
37°	8157.9	8110.1	7983.3	7598.1	6850.2	6002.3	5101.8	4421.8	3974.6	3585.7	3330.0
38°	8128.5	8061.1	7928.2	7581.5	6883.9	6057.1	5145.2	4442.1	3907.8	3494.9	3339.4
39°	8119.3	8037.9	7891.5	7558.9	6894.9	6104.8	5203.4	4461.3	3857.9	3445.3	3343.1
40°	8116.9	8025.6	7874.3	7544.8	6893.7	6139.1	5258.7	4481.4	3842.8	3467.6	3227.1
41°	8114.4	8018.9	7865.7	7539.9	6903.5	6165.4	5300.9	4495.5	3868.8	3490.8	3178.0
42°	8106.5	8012.1	7860.8	7538.7	6924.9	6191.8	5330.9	4503.5	3894.6	3490.7	3193.8
43°	8088.7	8004.2	7857.2	7544.8	6950.1	6215.0	5351.9	4529.4	3885.6	3498.8	3189.7
44°	8062.4	7991.9	7850.4	7556.4	6977.6	6239.5	5369.2	4554.9	3886.9	3520.6	3186.1

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	8025.0	7972.3	7840.0	7568.1	7003.3	6272.0	5390.4	4587.1	3908.7	3536.1	3185.1
46°	7982.1	7947.2	7826.5	7575.4	7029.1	6311.2	5411.8	4576.4	3933.2	3435.6	3029.9
47°	7932.5	7919.6	7810.6	7580.9	7054.8	6352.2	5427.9	4548.0	3938.4	3364.7	2989.5
48°	7881.1	7887.2	7792.9	7587.7	7079.9	6390.8	5458.4	4561.6	3935.3	3370.6	3000.9
49°	7825.9	7854.1	7770.2	7590.1	7109.3	6427.0	5493.2	4589.6	3863.4	3392.0	3000.6
50°	7765.9	7819.8	7743.9	7584.0	7131.4	6459.4	5524.3	4609.3	3828.9	3390.7	2982.0
51°	7699.8	7778.2	7712.0	7572.4	7157.1	6487.0	5549.2	4615.1	3835.1	3385.4	2813.5
52°	7623.8	7729.8	7676.5	7561.9	7185.3	6512.7	5547.4	4633.1	3836.0	3264.3	2810.8
53°	7541.7	7671.6	7636.1	7550.3	7209.1	6531.1	5518.6	4642.0	3864.0	3229.2	2831.5
54°	7449.9	7600.5	7595.0	7535.6	7221.4	6548.2	5488.1	4631.4	3863.2	3236.0	2847.7
55°	7345.7	7517.8	7547.9	7517.2	7225.7	6558.7	5483.7	4624.9	3857.6	3232.5	2682.8
56°	7225.7	7419.2	7491.5	7491.5	7225.7	6562.9	5484.9	4610.2	3826.9	3172.8	2646.6
57°	7094.6	7307.1	7424.7	7462.1	7223.8	6569.7	5478.8	4597.4	3769.2	3075.2	2648.1
58°	6948.2	7177.3	7344.5	7429.0	7215.9	6579.5	5455.1	4548.6	3757.3	3105.7	2521.3
59°	6789.0	7030.9	7256.9	7389.8	7204.2	6583.8	5431.1	4526.0	3749.1	3141.0	2447.4
60°	6602.8	6865.5	7151.6	7340.8	7183.4	6578.3	5406.0	4490.1	3734.4	3116.5	2441.7
61°	6366.9	6672.6	7035.8	7278.4	7153.4	6556.8	5367.2	4448.7	3701.0	3018.7	2264.4
62°	6086.1	6438.6	6903.5	7201.2	7116.7	6512.1	5312.5	4401.1	3658.1	3002.9	2248.7
63°	5772.3	6173.4	6754.7	7110.5	7067.0	6439.2	5241.2	4345.3	3646.6	2957.9	2120.9
64°	5462.5	5898.9	6588.1	7010.1	7002.1	6346.1	5158.0	4283.7	3607.0	2903.5	2062.4
65°	5194.1	5630.8	6406.8	6897.4	6926.8	6243.8	5074.7	4232.6	3526.9	2875.7	1917.1
66°	4980.6	5395.6	6208.3	6765.1	6835.5	6150.7	4966.4	4168.4	3529.0	2804.7	1850.9
67°	4841.0	5195.2	6018.4	6616.9	6722.2	6042.2	4840.5	4081.6	3551.8	2776.7	1702.6
68°	4769.2	5046.7	5836.7	6446.6	6587.5	5907.5	4661.8	3982.7	3569.2	2719.0	1579.3
69°	4704.4	4940.2	5668.5	6262.8	6423.3	5734.5	4452.6	3862.4	3487.1	2671.0	1435.0
70°	4529.4	4841.5	5506.2	6063.6	6234.0	5481.3	4130.0	3689.8	3396.3	2624.8	1329.1
71°	4183.6	4673.3	5360.4	5860.8	6014.6	5151.4	3714.8	3451.8	3321.1	2564.1	1253.2
72°	3727.4	4387.5	5221.9	5652.8	5771.5	4762.1	3304.4	3193.6	3222.1	2495.7	1177.3
73°	3275.0	3994.9	5066.6	5449.9	5492.8	4325.7	2935.6	2928.2	3068.4	2421.8	1101.5
74°	2847.3	3559.4	4880.3	5243.5	5171.2	3884.1	2592.5	2661.2	2908.8	2324.4	1030.2
75°	2231.3	3080.4	4640.2	4992.1	4821.7	3416.0	2177.4	2386.9	2740.6	2194.5	929.2
76°	1401.8	2490.0	4301.0	4702.4	4407.6	2900.9	1587.9	2066.9	2562.9	2034.5	823.2
77°	662.5	1655.2	3858.0	4300.5	3935.3	2192.7	998.4	1549.0	2382.0	1805.3	721.8
78°	520.4	831.5	3314.3	3776.4	3370.4	1380.3	417.8	1031.1	2178.2	1503.9	617.0
79°	385.1	637.9	2592.0	3131.1	2707.5	688.9	190.4	518.3	1851.8	1202.5	523.3
80°	249.8	444.3	1662.0	2341.8	1920.9	512.7	163.2	379.9	1322.7	901.4	452.1
81°	227.3	250.7	862.5	1493.4	1114.8	343.5	136.1	241.5	795.4	665.7	454.9
82°	206.7	221.6	645.8	718.3	501.6	174.4	109.1	106.5	348.3	544.2	423.7
83°	187.1	198.5	438.4	551.7	343.9	147.1	93.5	86.5	264.1	463.7	339.0
84°	167.1	176.1	231.1	387.9	188.4	124.7	78.4	69.4	179.9	368.0	233.6
85°	146.9	153.9	187.0	224.1	151.2	103.4	63.6	54.6	97.1	261.4	167.2
86°	125.2	133.0	150.2	190.5	121.2	82.2	49.3	42.0	80.1	209.7	101.4
87°	103.8	113.0	124.2	152.0	96.5	62.8	35.2	31.2	62.2	158.0	66.3
88°	84.6	93.6	98.9	108.6	74.7	47.7	25.0	22.2	41.3	106.3	45.4
89°	69.3	73.4	72.6	64.4	57.4	32.6	14.8	13.3	28.7	54.6	24.4



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CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1	3966.1
1°	3909.5	3909.8	3914.8	3923.1	3935.2	3948.8	3963.3	3964.8	3979.5	3994.1	4006.9
2°	3860.7	3858.9	3866.0	3880.3	3901.2	3926.1	3955.3	3971.6	4001.0	4030.0	4056.2
3°	3818.1	3814.8	3823.7	3842.8	3870.4	3906.8	3948.9	3980.7	4025.7	4070.7	4111.8
4°	3780.9	3776.7	3787.3	3809.5	3844.6	3891.2	3946.0	3992.7	4054.4	4116.6	4172.7
5°	3746.5	3742.2	3754.0	3780.5	3821.2	3878.1	3944.8	4006.7	4084.8	4164.9	4239.6
6°	3717.9	3713.4	3726.2	3754.0	3801.8	3866.7	3946.7	4023.6	4118.3	4217.4	4312.3
7°	3694.9	3689.2	3703.6	3733.9	3783.4	3858.0	3949.7	4041.5	4154.7	4274.8	4390.3
8°	3674.5	3667.5	3683.2	3718.7	3770.3	3850.4	3953.9	4060.3	4193.3	4336.0	4473.0
9°	3655.7	3647.8	3664.7	3704.1	3761.3	3843.3	3958.2	4081.2	4234.1	4401.6	4563.4
10°	3640.6	3632.2	3649.2	3691.8	3754.2	3837.7	3965.8	4105.8	4277.8	4471.0	4658.4
11°	3629.9	3621.2	3638.3	3682.5	3748.9	3837.1	3975.1	4133.4	4326.8	4545.3	4761.5
12°	3607.1	3581.0	3615.6	3676.8	3745.8	3840.0	3977.0	4151.7	4378.8	4623.3	4871.1
13°	3565.8	3540.4	3574.1	3673.6	3744.2	3833.6	3983.4	4174.2	4421.1	4710.6	4988.8
14°	3546.9	3536.7	3555.1	3632.2	3745.2	3832.1	3989.5	4196.9	4468.9	4796.6	5113.8
15°	3549.1	3536.8	3555.3	3605.2	3738.2	3832.5	4002.8	4225.8	4517.8	4878.8	5243.8
16°	3551.6	3539.5	3558.1	3607.9	3733.6	3839.3	4015.4	4260.5	4572.9	4966.6	5380.2
17°	3557.5	3543.9	3564.5	3614.1	3705.6	3843.5	4031.3	4294.6	4639.2	5056.9	5519.6
18°	3561.5	3544.3	3568.9	3622.2	3691.5	3851.6	4053.9	4332.0	4697.6	5156.3	5656.4
19°	3564.3	3545.0	3572.6	3634.2	3686.5	3868.4	4081.2	4377.7	4762.7	5256.1	5785.0
20°	3567.1	3530.2	3576.8	3642.9	3690.9	3888.5	4107.9	4424.1	4830.9	5362.0	5919.5
21°	3494.4	3385.1	3509.4	3643.5	3703.5	3903.9	4129.7	4465.6	4908.7	5461.7	6048.8
22°	3390.0	3347.9	3410.8	3645.8	3719.2	3910.8	4141.6	4502.9	4986.7	5565.2	6169.1
23°	3373.6	3352.0	3393.9	3624.9	3731.0	3902.1	4166.2	4529.3	5062.5	5670.3	6292.2
24°	3379.9	3361.3	3401.6	3503.7	3740.7	3911.8	4197.5	4566.4	5132.6	5773.4	6412.3
25°	3391.7	3374.2	3414.3	3471.2	3750.0	3918.8	4216.4	4613.7	5193.3	5878.5	6526.8
26°	3405.3	3385.8	3429.6	3482.9	3764.5	3924.2	4239.5	4651.6	5256.0	5980.6	6641.4
27°	3416.7	3399.0	3442.8	3492.8	3765.2	3948.5	4273.4	4688.6	5328.3	6081.5	6750.4
28°	3428.6	3375.4	3458.5	3500.9	3699.0	3968.6	4305.1	4737.2	5409.7	6175.8	6860.0
29°	3368.8	3241.3	3395.0	3506.0	3635.0	3975.3	4326.1	4791.9	5489.4	6268.3	6971.5
30°	3256.1	3231.1	3283.5	3517.2	3601.4	3982.2	4344.7	4846.4	5559.5	6352.2	7084.8
31°	3252.0	3248.9	3278.8	3528.3	3596.8	4001.4	4372.5	4893.5	5636.9	6436.2	7199.3
32°	3265.0	3271.3	3292.4	3436.9	3606.8	4020.2	4405.7	4935.0	5725.2	6526.8	7311.4
33°	3281.2	3292.6	3309.0	3343.5	3623.7	4023.7	4437.0	4984.8	5817.0	6621.8	7418.6
34°	3296.8	3309.9	3323.3	3339.8	3640.6	4037.4	4454.5	5046.5	5900.8	6716.1	7513.6
35°	3309.3	3324.4	3334.9	3344.1	3648.5	4047.3	4484.4	5107.1	5972.5	6808.0	7577.3
36°	3313.8	3146.0	3336.2	3358.5	3649.8	4054.3	4513.8	5163.2	6034.6	6871.7	7604.8
37°	3133.1	3120.4	3151.3	3377.0	3644.4	4045.9	4537.8	5204.4	6088.3	6909.6	7605.4
38°	3095.7	3138.5	3122.3	3383.3	3554.3	3983.0	4558.4	5253.2	6131.7	6924.9	7585.8
39°	3107.2	3160.4	3133.6	3393.3	3507.5	3939.7	4571.0	5303.4	6167.3	6928.6	7561.3
40°	3122.7	3179.5	3145.2	3276.9	3534.7	3927.4	4587.3	5341.7	6194.2	6935.4	7547.9
41°	3124.0	3162.3	3146.2	3235.2	3553.2	3952.8	4591.4	5376.0	6215.0	6950.7	7542.3
42°	3092.8	2965.5	3116.9	3246.3	3550.3	3968.1	4598.8	5405.6	6239.5	6969.7	7550.9
43°	2917.2	2950.9	2945.9	3240.1	3565.4	3951.3	4627.1	5430.4	6266.5	6992.3	7567.5
44°	2902.6	2961.5	2934.9	3236.9	3586.5	3958.1	4656.8	5452.4	6300.2	7017.4	7582.8



REPORT NUMBER: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2917.5	2966.9	2948.5	3236.5	3600.7	3984.4	4688.3	5477.3	6338.8	7041.9	7596.2
46°	2919.8	2882.6	2948.2	3073.3	3497.2	4008.0	4664.6	5495.1	6375.5	7071.9	7609.7
47°	2844.8	2701.3	2866.0	3049.0	3431.7	4020.5	4641.2	5517.5	6412.9	7105.0	7620.7
48°	2689.3	2701.9	2724.3	3057.4	3443.0	4010.8	4661.6	5551.7	6449.6	7136.9	7625.6
49°	2700.9	2705.4	2738.4	3056.4	3465.3	3939.9	4695.4	5581.2	6485.2	7164.4	7622.6
50°	2715.9	2704.0	2754.7	3031.1	3459.5	3921.3	4713.0	5605.6	6516.4	7195.1	7616.5
51°	2724.5	2455.6	2766.6	2870.9	3449.1	3928.2	4721.3	5619.0	6542.1	7221.4	7609.7
52°	2512.8	2430.8	2546.5	2875.3	3322.9	3935.4	4739.8	5600.4	6562.9	7242.8	7601.1
53°	2484.7	2427.5	2521.7	2896.5	3303.9	3960.3	4743.0	5564.0	6581.9	7255.7	7590.7
54°	2478.7	2243.0	2515.2	2911.6	3314.2	3956.8	4731.5	5543.2	6591.1	7260.0	7577.3
55°	2305.7	2130.6	2332.8	2736.7	3312.0	3949.2	4721.9	5540.9	6594.8	7259.4	7561.9
56°	2216.0	2125.3	2252.8	2708.2	3238.7	3915.8	4702.1	5541.6	6596.6	7260.6	7541.1
57°	2213.5	1890.4	2249.5	2710.7	3165.8	3860.4	4680.9	5528.3	6600.3	7255.7	7511.1
58°	2001.3	1835.9	2029.5	2569.2	3198.2	3851.7	4624.6	5494.6	6598.5	7242.2	7468.8
59°	1947.3	1793.5	1981.3	2516.0	3232.7	3839.0	4606.2	5467.4	6591.7	7223.8	7416.8
60°	1856.9	1521.0	1870.1	2504.3	3190.3	3820.5	4553.0	5435.3	6569.1	7198.1	7358.0
61°	1677.1	1385.2	1709.1	2324.4	3102.7	3776.8	4504.8	5392.3	6524.4	7164.4	7293.1
62°	1597.7	1249.6	1602.7	2313.5	3088.0	3736.3	4445.4	5333.8	6451.5	7114.8	7221.4
63°	1438.9	1113.1	1450.3	2164.7	3031.1	3720.1	4380.7	5251.9	6364.5	7051.7	7135.6
64°	1280.2	902.6	1298.0	2118.8	2983.1	3669.8	4315.9	5168.8	6261.0	6979.5	7030.9
65°	1120.1	696.1	1145.4	1964.3	2948.8	3595.9	4253.3	5071.1	6163.6	6890.0	6906.0
66°	913.1	520.2	925.6	1889.3	2876.7	3605.9	4171.3	4938.0	6057.7	6785.9	6766.9
67°	741.7	345.9	729.0	1753.2	2848.7	3618.1	4064.3	4788.5	5928.7	6664.6	6613.8
68°	542.5	171.7	538.5	1613.2	2777.8	3605.9	3946.3	4586.4	5759.9	6520.7	6449.0
69°	393.0	0.4	377.7	1443.6	2717.7	3486.4	3805.8	4317.0	5540.1	6350.4	6268.9
70°	353.6	0.3	330.8	1340.4	2661.1	3374.4	3600.5	3926.0	5254.6	6153.2	6067.9
71°	314.9	0.3	288.6	1257.5	2587.1	3272.2	3328.8	3486.1	4886.3	5927.1	5851.9
72°	272.0	0.3	245.7	1174.5	2509.8	3149.3	3048.2	3085.4	4458.6	5678.0	5642.4
73°	226.0	0.3	199.7	1091.3	2410.7	2978.2	2786.5	2748.9	4012.7	5373.2	5425.9
74°	184.8	0.4	155.2	997.4	2273.0	2814.1	2522.4	2373.1	3551.4	5004.6	5193.9
75°	146.3	0.4	127.4	883.7	2116.9	2648.0	2180.0	1832.7	3059.9	4587.4	4926.5
76°	108.0	0.5	117.8	782.0	1910.8	2453.0	1663.2	1151.0	2457.9	4127.3	4606.7
77°	83.3	0.6	129.0	686.2	1632.3	2240.5	1146.5	549.5	1698.4	3621.2	4192.4
78°	89.5	0.7	118.8	590.0	1352.1	1949.3	631.3	351.1	927.1	3013.6	3592.1
79°	121.5	0.8	108.7	515.7	1071.9	1441.8	258.7	161.9	681.2	2323.9	2877.2
80°	125.3	0.9	98.3	474.7	794.6	934.2	185.4	137.4	435.4	1523.6	2056.1
81°	113.5	1.0	61.4	439.0	630.8	437.7	113.0	119.9	189.7	775.7	1220.9
82°	82.6	1.2	34.0	375.5	526.9	325.6	92.9	104.0	160.4	575.4	531.1
83°	51.8	1.3	25.9	275.1	409.0	213.5	76.8	88.6	138.1	376.2	382.5
84°	30.8	1.4	17.9	174.6	272.2	102.6	62.9	73.7	117.6	177.1	250.2
85°	23.5	1.6	9.9	75.1	180.3	84.2	50.1	58.0	96.6	139.8	217.7
86°	16.2	1.8	8.3	44.3	88.7	67.0	38.7	44.5	76.5	112.3	183.1
87°	9.1	1.9	7.2	26.8	47.1	49.4	28.6	31.0	57.9	89.0	144.0
88°	7.1	2.1	6.1	19.0	32.6	34.2	20.2	17.5	42.7	67.5	98.9
89°	4.9	2.3	4.6	11.1	18.0	18.9	11.8	7.7	27.5	52.4	57.4



REPORT NUMBER: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3966.1	3966.1	3966.1
1°	4016.8	4024.1	4026.5
2°	4077.6	4092.5	4096.8
3°	4144.6	4166.1	4173.6
4°	4218.7	4250.5	4260.6
5°	4302.0	4342.1	4356.0
6°	4389.4	4441.3	4459.3
7°	4485.3	4550.4	4573.0
8°	4588.9	4666.9	4692.9
9°	4699.4	4792.2	4825.6
10°	4819.7	4929.2	4968.7
11°	4949.3	5076.0	5120.8
12°	5086.2	5231.6	5284.5
13°	5233.3	5402.0	5464.6
14°	5387.4	5578.4	5652.7
15°	5550.6	5764.0	5847.2
16°	5716.6	5955.9	6046.2
17°	5889.6	6151.3	6243.8
18°	6062.4	6343.7	6439.2
19°	6232.8	6527.4	6630.9
20°	6397.6	6705.7	6816.5
21°	6556.8	6876.6	6990.5
22°	6706.9	7035.8	7155.2
23°	6853.3	7194.4	7311.4
24°	6992.3	7348.8	7460.3
25°	7132.6	7496.4	7599.3
26°	7272.8	7630.5	7721.8
27°	7405.1	7750.6	7829.0
28°	7519.7	7854.7	7932.5
29°	7625.6	7958.8	8036.6
30°	7738.3	8077.7	8162.8
31°	7851.0	8187.3	8266.3
32°	7954.6	8268.2	8344.7
33°	8027.4	8309.8	8376.0
34°	8062.4	8306.1	8358.8
35°	8056.8	8258.4	8301.8
36°	8026.2	8185.5	8225.3
37°	7973.5	8110.7	8157.9
38°	7923.3	8063.0	8128.5
39°	7893.3	8040.3	8119.3
40°	7879.8	8029.9	8116.9
41°	7873.7	8025.0	8114.4
42°	7867.6	8021.9	8106.5
43°	7861.5	8015.8	8088.7
44°	7856.6	8005.4	8062.4

REPORT NUMBER: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	7851.7	7985.8	8025.0
46°	7845.5	7960.7	7982.1
47°	7836.3	7932.5	7932.5
48°	7822.3	7900.7	7881.1
49°	7801.4	7867.6	7825.9
50°	7775.1	7833.9	7765.9
51°	7740.8	7797.1	7699.8
52°	7703.4	7750.6	7623.8
53°	7664.8	7693.0	7541.7
54°	7625.6	7622.0	7449.9
55°	7582.2	7538.7	7345.7
56°	7529.5	7440.1	7225.7
57°	7463.9	7329.8	7094.6
58°	7380.0	7196.3	6948.2
59°	7288.2	7049.3	6789.0
60°	7182.8	6888.2	6602.8
61°	7064.0	6703.2	6366.9
62°	6929.8	6479.0	6086.1
63°	6787.7	6217.5	5772.3
64°	6630.3	5934.4	5462.5
65°	6453.3	5668.2	5194.1
66°	6265.3	5433.9	4980.6
67°	6076.3	5239.9	4841.0
68°	5884.7	5086.3	4769.2
69°	5717.9	4973.0	4704.4
70°	5576.4	4872.3	4529.4
71°	5429.7	4715.8	4183.6
72°	5268.9	4434.9	3727.4
73°	5110.2	4040.1	3275.0
74°	4925.2	3596.1	2847.3
75°	4644.0	3111.3	2231.3
76°	4271.1	2515.7	1401.8
77°	3839.3	1737.8	662.5
78°	3306.2	930.2	520.4
79°	2559.8	700.8	385.1
80°	1585.2	479.6	249.8
81°	800.4	258.3	227.3
82°	599.7	224.9	206.7
83°	416.7	202.9	187.1
84°	233.7	179.6	167.1
85°	184.0	155.7	146.9
86°	149.7	133.6	125.2
87°	123.2	113.1	103.8
88°	97.8	93.0	84.6
89°	70.2	72.7	69.3



REPORT NUMBER: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-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: P1436778

CATALOG NUMBER: XAS300-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)