

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: P1436801

Luminaire Tested: XAS300-SFPM (4000K-180W-T3)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436801
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/25/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS300-SFPM (4000K-180W-T3)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 3
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

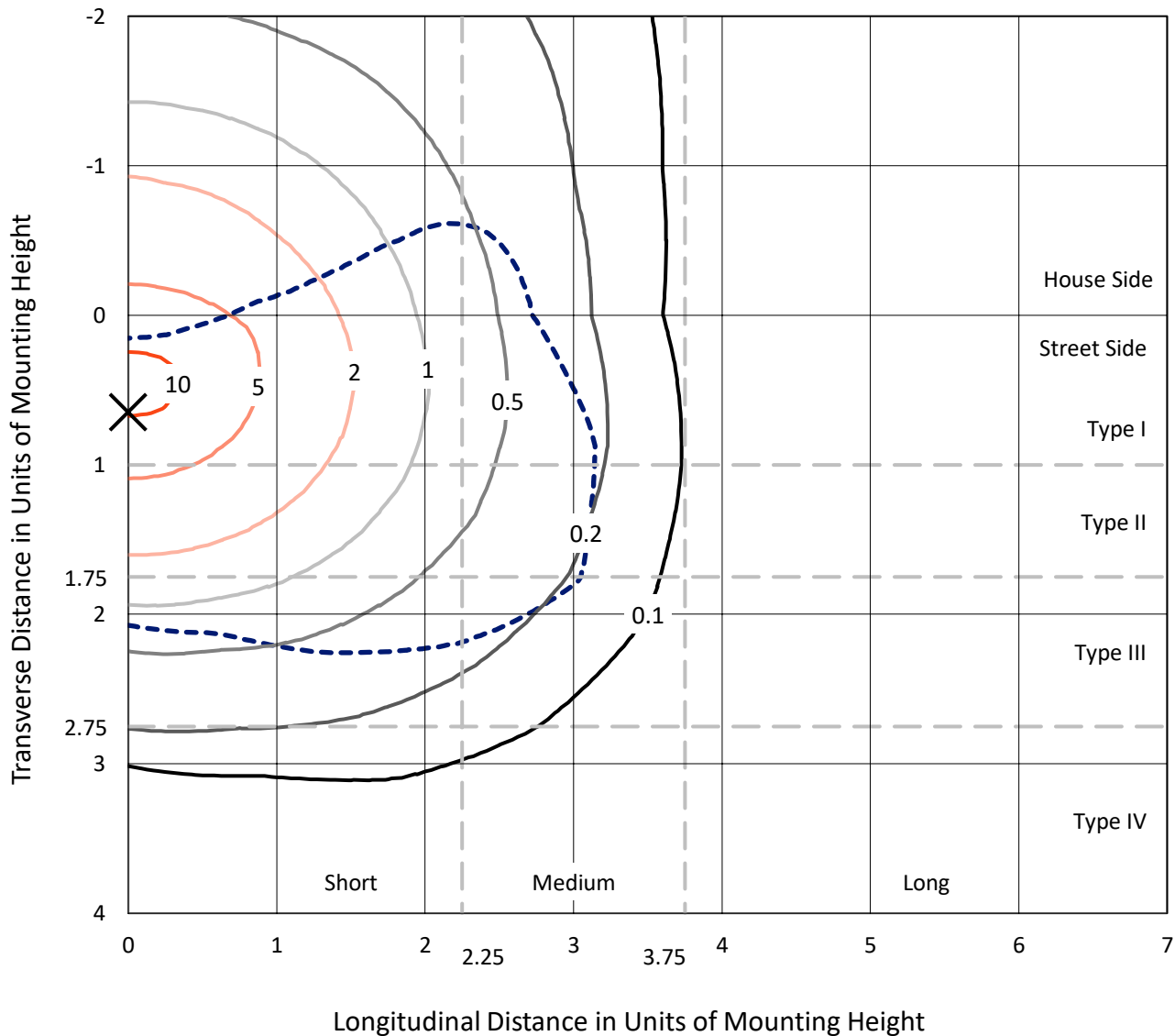
Lumens per Lamp: 45292 (1 lamp)
Luminaire Lumens: 29823.7 lumens
Efficiency: 65.8%
Efficacy: 164.5 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 181.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

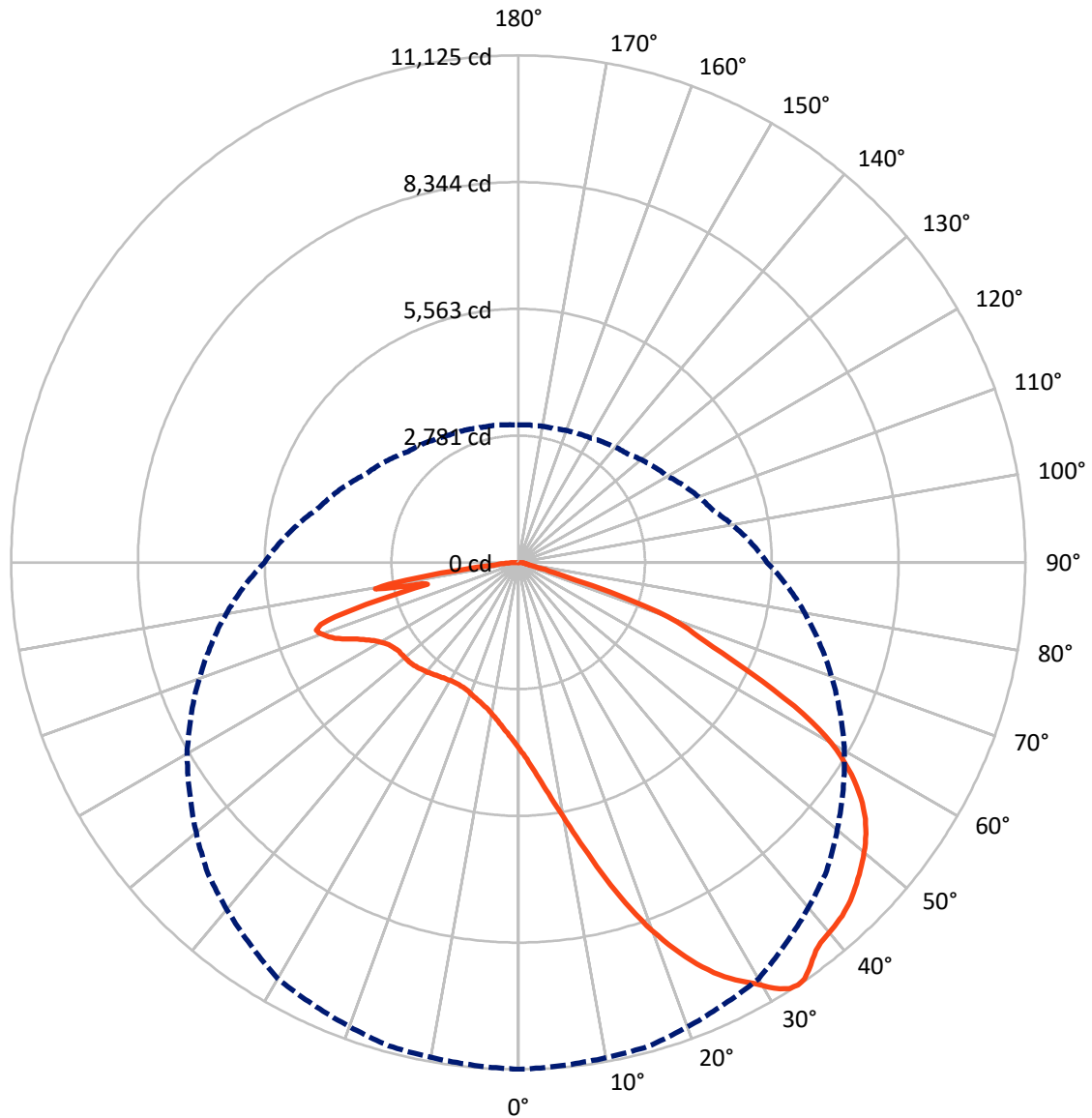
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - 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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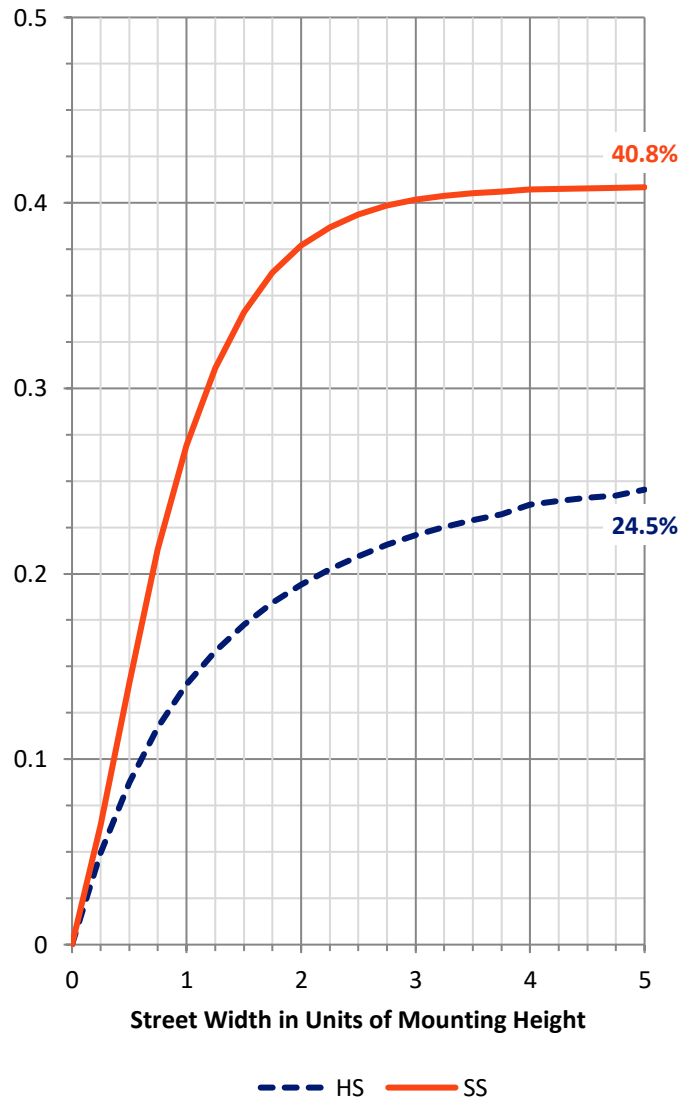
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11309.2	0.0	11309.2
	% Lamp	25.0	0.0	25.0
Street Side	Lumens	18514.6	0.0	18514.6
	% Lamp	40.9	0.0	40.9
Total	Lumens	29823.7	0.0	29823.7
	% Lamp	65.8	0.0	65.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	407.0	1.4	0.9
10°-20°	1383.2	4.6	3.1
20°-30°	2678.8	9.0	5.9
30°-40°	4050.1	13.6	8.9
40°-50°	5111.8	17.1	11.3
50°-60°	5896.5	19.8	13.0
60°-70°	5878.0	19.7	13.0
70°-80°	3833.2	12.9	8.5
80°-90°	585.3	2.0	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°	29823.7	100.0	65.8
0°-180°	29823.7	100.0	65.8

Coefficient of Utilization



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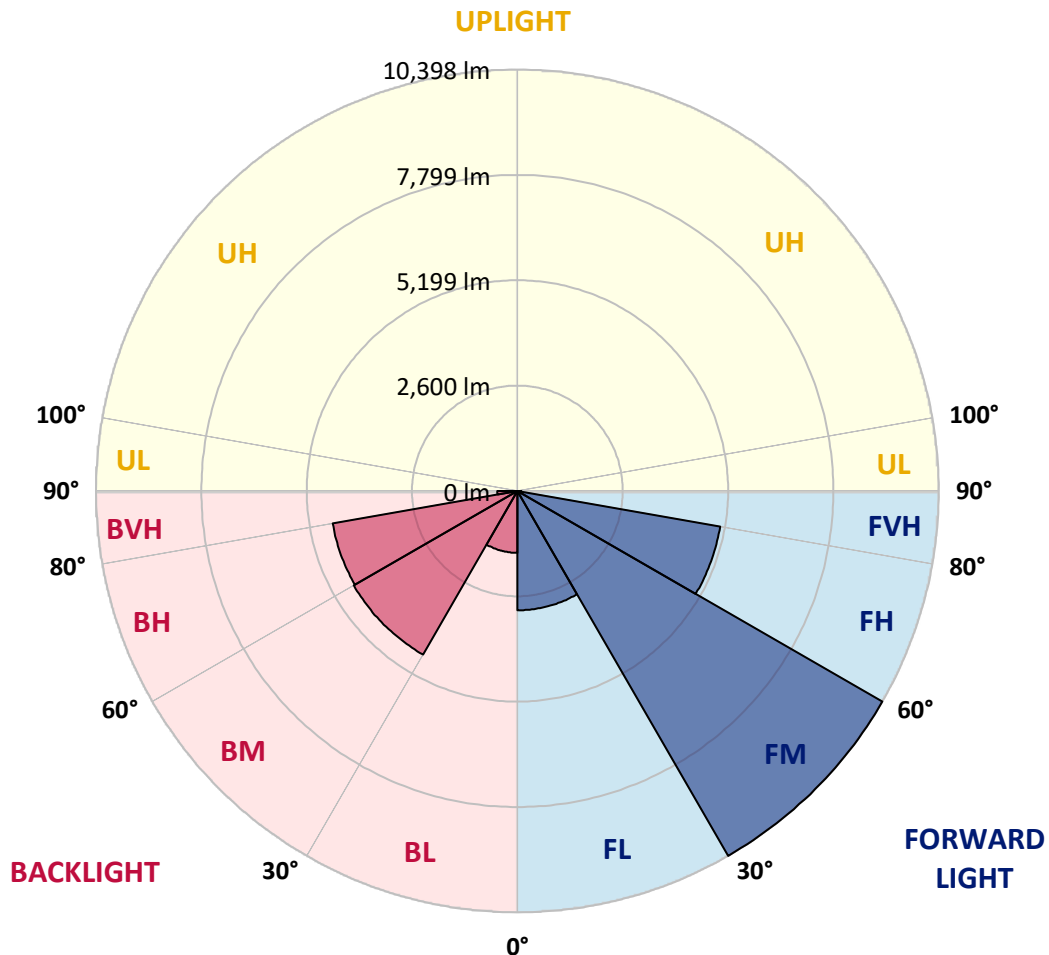
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.1	6.5			
FM (30°-60°)	10398.4	23.0			
FH (60°-80°)	5083.0	11.2			G3/7500
FVH (80°-90°)	90.1	0.2			G1/100
BL (0°-30°)	1525.8	3.4	B3/2500		
BM (30°-60°)	4660.0	10.3	B3/5000		
BH (60°-80°)	4628.1	10.2	B4/5000		G4/5000
BVH (80°-90°)	495.2	1.1			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	15468.3	34.2			

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9
1°	4209.2	4207.8	4198.1	4184.1	4164.2	4140.7	4094.2	4068.1	4046.0	4027.2	4014.0
2°	4326.7	4320.9	4298.7	4262.8	4218.3	4168.4	4095.0	4043.3	3998.4	3961.0	3934.7
3°	4457.3	4444.4	4406.6	4349.2	4278.2	4200.1	4098.9	4022.6	3955.6	3901.2	3862.0
4°	4603.5	4582.2	4528.4	4447.3	4345.6	4237.3	4107.4	4005.7	3918.6	3847.3	3797.9
5°	4761.4	4735.0	4661.0	4550.6	4421.1	4280.4	4120.8	3993.8	3884.6	3799.3	3738.7
6°	4937.0	4902.9	4808.5	4668.0	4501.9	4325.7	4135.5	3983.8	3855.4	3755.4	3680.3
7°	5124.8	5086.2	4969.2	4794.2	4588.2	4374.8	4152.2	3975.9	3828.4	3711.1	3624.0
8°	5327.7	5276.7	5139.4	4930.7	4681.7	4428.0	4172.9	3970.8	3803.8	3669.3	3573.3
9°	5546.4	5487.0	5325.2	5075.9	4781.3	4486.4	4197.0	3967.4	3778.8	3630.9	3525.3
10°	5780.9	5710.7	5518.5	5232.9	4889.1	4548.9	4223.8	3966.3	3756.4	3596.8	3481.5
11°	6035.2	5952.7	5730.2	5399.3	5002.3	4615.8	4252.2	3967.0	3734.7	3564.0	3441.2
12°	6299.4	6205.7	5953.1	5573.0	5124.0	4687.2	4284.3	3970.7	3716.5	3533.9	3405.7
13°	6588.1	6482.6	6186.8	5757.0	5252.9	4762.5	4320.6	3976.2	3700.7	3505.8	3372.9
14°	6892.3	6771.2	6436.1	5951.6	5389.2	4843.2	4362.1	3984.4	3686.1	3480.6	3343.8
15°	7203.8	7067.5	6691.5	6152.3	5528.4	4926.1	4405.1	3995.8	3675.1	3457.9	3318.8
16°	7521.2	7367.8	6953.6	6361.4	5675.7	5014.2	4451.2	4009.7	3666.6	3437.5	3294.3
17°	7839.2	7669.4	7217.6	6570.9	5828.4	5109.3	4499.6	4025.0	3659.3	3420.1	3273.8
18°	8151.4	7970.3	7483.7	6784.3	5985.1	5206.8	4551.2	4043.6	3654.4	3405.7	3255.3
19°	8456.2	8262.0	7743.1	6997.0	6139.6	5306.2	4604.6	4064.9	3654.0	3392.8	3239.8
20°	8747.3	8546.5	7996.0	7205.1	6297.3	5407.5	4660.1	4087.9	3655.3	3383.7	3226.8
21°	9025.2	8819.7	8241.6	7412.5	6455.4	5512.2	4716.1	4112.2	3658.2	3376.5	3214.2
22°	9278.0	9072.6	8472.0	7613.4	6611.8	5616.5	4773.1	4137.8	3664.5	3370.8	3203.2
23°	9525.0	9320.2	8697.2	7809.6	6772.5	5724.9	4829.4	4163.0	3671.2	3367.4	3195.4
24°	9753.4	9550.6	8916.5	7997.9	6924.6	5829.3	4885.7	4187.9	3679.1	3365.0	3187.7
25°	9972.1	9775.2	9128.5	8183.6	7074.1	5935.0	4942.2	4211.0	3688.6	3364.5	3180.9
26°	10160.4	9973.4	9334.7	8364.1	7222.9	6045.1	4999.1	4235.6	3699.5	3363.9	3174.2
27°	10325.7	10149.9	9531.5	8537.2	7373.7	6155.8	5056.9	4260.1	3710.0	3363.9	3168.2
28°	10474.5	10305.9	9711.3	8712.4	7517.2	6264.5	5117.1	4283.6	3720.0	3364.8	3163.0
29°	10631.2	10456.1	9879.9	8882.3	7658.2	6379.5	5180.0	4308.7	3730.2	3365.0	3160.0
30°	10820.2	10635.2	10052.4	9054.1	7798.4	6497.6	5245.7	4335.5	3742.0	3365.6	3158.7
31°	10974.9	10801.1	10234.8	9230.0	7944.6	6613.1	5314.0	4363.0	3754.9	3368.1	3157.8
32°	11087.5	10928.8	10406.0	9403.1	8099.3	6727.7	5384.7	4393.2	3768.8	3372.6	3157.4
33°	11125.1	10998.6	10548.9	9569.7	8264.6	6842.3	5457.5	4421.9	3782.3	3376.8	3156.5
34°	11088.2	10985.5	10637.1	9724.5	8425.9	6972.7	5532.6	4456.7	3795.3	3382.5	3156.5
35°	10984.2	10899.2	10647.0	9841.0	8560.3	7109.6	5610.1	4493.6	3810.6	3390.1	3159.3
36°	10849.2	10786.0	10591.7	9908.2	8679.5	7245.3	5689.3	4532.5	3829.1	3399.7	3167.3
37°	10730.6	10654.3	10503.5	9917.4	8766.4	7356.6	5770.5	4567.7	3849.0	3413.4	3180.8
38°	10664.1	10565.4	10411.9	9882.5	8825.0	7452.7	5853.5	4602.9	3870.0	3432.0	3200.4
39°	10625.3	10517.9	10341.5	9839.1	8846.7	7528.4	5937.4	4640.5	3892.8	3455.5	3222.1
40°	10595.0	10486.3	10303.3	9809.4	8839.5	7578.5	6009.1	4680.6	3917.9	3482.7	3246.6
41°	10560.7	10460.7	10281.6	9792.3	8837.5	7604.8	6065.6	4726.9	3946.6	3513.0	3270.9
42°	10517.9	10432.3	10265.7	9791.6	8849.4	7627.9	6107.0	4766.5	3977.1	3544.5	3293.5
43°	10464.6	10400.1	10247.3	9804.2	8868.4	7657.5	6136.6	4798.0	4012.5	3579.0	3313.6
44°	10400.1	10360.6	10224.9	9818.6	8892.8	7702.3	6164.8	4826.6	4048.6	3612.9	3332.0



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CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	10321.1	10309.9	10196.6	9828.5	8926.4	7751.0	6198.5	4858.8	4084.9	3647.5	3348.1
46°	10233.5	10249.3	10161.1	9832.5	8963.3	7799.7	6237.7	4893.1	4121.1	3681.1	3361.9
47°	10142.0	10182.1	10116.9	9829.8	9004.1	7849.8	6278.0	4932.4	4156.3	3712.5	3375.1
48°	10048.4	10112.3	10067.5	9818.6	9040.3	7897.8	6318.3	4974.9	4193.7	3742.9	3388.4
49°	9953.6	10035.3	10005.6	9800.9	9072.6	7945.3	6356.9	5020.8	4232.6	3771.7	3405.2
50°	9852.2	9954.9	9938.5	9775.2	9097.6	7989.4	6394.1	5071.8	4271.1	3797.8	3423.7
51°	9740.3	9864.1	9862.8	9743.6	9120.0	8028.9	6426.9	5123.0	4309.4	3825.3	3445.8
52°	9613.2	9758.1	9777.8	9704.1	9138.4	8064.4	6456.0	5172.1	4346.8	3853.6	3471.1
53°	9471.6	9638.2	9689.6	9660.6	9147.6	8093.4	6481.9	5221.6	4390.1	3885.0	3502.3
54°	9305.0	9494.0	9593.4	9606.6	9149.6	8117.1	6504.5	5268.5	4437.8	3919.5	3536.5
55°	9122.6	9323.5	9486.1	9541.4	9145.7	8134.9	6524.6	5313.7	4485.8	3959.3	3574.6
56°	8909.3	9128.5	9361.7	9465.7	9131.8	8146.1	6543.2	5359.6	4535.8	4003.4	3613.8
57°	8668.9	8908.0	9217.4	9378.8	9108.1	8150.7	6556.5	5403.5	4591.3	4053.1	3656.0
58°	8395.7	8656.4	9050.8	9278.7	9069.9	8147.4	6563.5	5443.8	4649.5	4107.4	3704.8
59°	8105.3	8379.2	8865.8	9168.7	9019.9	8134.9	6564.9	5477.6	4710.0	4165.5	3756.4
60°	7756.9	8072.3	8658.4	9043.6	8955.4	8110.5	6559.6	5510.8	4770.4	4227.8	3812.9
61°	7329.6	7720.7	8425.3	8898.7	8873.7	8069.7	6544.0	5539.5	4836.5	4296.3	3874.6
62°	6823.2	7297.3	8164.5	8730.8	8780.9	8011.8	6517.0	5561.2	4904.5	4371.1	3942.1
63°	6250.0	6823.9	7862.9	8541.8	8672.2	7945.9	6488.8	5575.8	4972.3	4451.6	4011.8
64°	5669.1	6311.4	7531.1	8329.8	8545.1	7864.3	6449.5	5581.9	5035.2	4540.2	4088.1
65°	5125.7	5799.1	7154.4	8090.8	8404.2	7765.5	6395.1	5579.2	5096.0	4636.1	4178.0
66°	4663.4	5309.9	6758.0	7819.5	8241.6	7654.2	6318.4	5568.5	5146.8	4736.3	4287.4
67°	4301.9	4859.7	6357.5	7513.9	8046.7	7510.0	6211.7	5533.8	5197.8	4843.2	4412.4
68°	4013.5	4467.9	5947.7	7174.8	7826.7	7323.6	6056.9	5471.3	5241.7	4957.9	4553.7
69°	3720.8	4133.6	5540.2	6804.1	7564.7	7096.5	5827.9	5355.0	5279.1	5079.3	4714.1
70°	3262.3	3795.6	5134.7	6412.3	7257.1	6814.6	5486.4	5152.0	5300.9	5207.3	4890.2
71°	2545.8	3353.6	4743.6	6015.4	6912.1	6451.2	5021.9	4854.5	5288.4	5343.5	5078.9
72°	1690.9	2737.4	4345.0	5620.9	6523.9	6024.5	4511.3	4493.3	5229.6	5479.7	5255.4
73°	948.4	1984.7	3915.1	5226.3	6104.4	5511.6	4005.2	4135.5	5112.3	5621.1	5443.7
74°	719.7	1241.7	3431.1	4818.3	5627.7	4932.4	3525.6	3845.1	4951.7	5745.0	5636.4
75°	495.9	697.1	2893.3	4364.0	5115.0	4280.4	2977.2	3582.0	4768.5	5821.0	5787.9
76°	272.1	543.9	2288.2	3858.3	4537.2	3597.1	2202.2	3175.9	4625.4	5818.8	5878.9
77°	229.3	399.9	1708.6	3212.1	3883.8	2802.0	1427.3	2507.3	4509.8	5720.1	5849.2
78°	199.9	255.9	1255.9	2428.2	3152.4	1919.3	660.1	1788.0	4363.5	5491.9	5597.7
79°	179.0	216.1	905.6	1558.4	2377.8	1097.8	290.4	1068.6	3986.5	5081.6	4995.3
80°	160.8	187.7	637.8	835.5	1646.1	558.9	203.9	360.8	3208.1	4409.9	4316.1
81°	143.6	163.2	451.6	637.3	946.6	384.9	176.3	234.5	2278.7	3576.4	3747.6
82°	127.2	142.4	267.7	450.6	685.2	218.9	155.0	190.5	1349.2	2728.2	3356.7
83°	110.3	124.8	216.0	263.9	433.3	178.1	133.8	157.3	439.9	2064.7	3142.0
84°	93.6	105.8	177.7	226.0	181.5	149.2	112.5	124.3	292.2	1584.8	2380.3
85°	76.4	87.5	133.2	193.8	140.4	121.5	92.6	98.6	238.9	1104.9	1618.5
86°	58.8	69.6	93.6	161.5	108.8	92.4	72.6	76.1	192.7	625.6	857.4
87°	41.3	52.5	69.7	124.3	80.7	66.6	52.4	56.5	146.5	432.0	463.2
88°	23.8	35.4	48.5	82.1	56.1	46.3	33.3	39.1	100.8	238.3	347.4
89°	11.1	18.2	27.3	43.6	31.4	26.3	23.3	27.2	68.2	47.5	231.6



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CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9	4103.9
1°	4007.6	4007.7	4014.6	4028.1	4047.1	4070.9	4096.0	4102.7	4127.9	4153.2	4174.7
2°	3919.8	3917.6	3928.4	3952.3	3987.3	4030.8	4080.1	4111.6	4163.5	4215.0	4258.9
3°	3840.7	3836.5	3850.1	3881.4	3930.6	3993.0	4066.1	4123.7	4203.3	4282.4	4351.3
4°	3769.8	3763.2	3779.8	3818.3	3879.1	3958.9	4053.3	4137.1	4245.1	4355.1	4454.0
5°	3701.3	3693.4	3713.2	3758.5	3831.1	3925.2	4042.6	4152.9	4289.7	4432.9	4562.3
6°	3635.9	3624.4	3646.6	3700.4	3784.9	3895.7	4034.8	4172.5	4338.0	4514.2	4679.4
7°	3572.6	3559.5	3584.3	3644.1	3739.3	3868.4	4027.5	4192.7	4390.9	4602.7	4805.5
8°	3515.2	3499.4	3526.2	3593.9	3696.3	3840.6	4021.9	4214.5	4445.6	4697.6	4938.5
9°	3460.2	3442.1	3471.3	3543.9	3657.1	3813.5	4018.1	4238.7	4503.9	4797.5	5083.4
10°	3410.0	3390.6	3420.5	3497.3	3620.3	3789.2	4017.5	4266.3	4568.0	4903.4	5237.2
11°	3364.8	3343.2	3374.7	3455.4	3586.3	3769.1	4019.8	4299.0	4638.4	5018.0	5401.0
12°	3326.3	3300.6	3332.0	3417.0	3554.8	3752.3	4025.5	4334.9	4713.0	5139.2	5575.0
13°	3290.9	3261.9	3295.7	3381.5	3525.6	3738.1	4033.7	4372.4	4790.7	5270.4	5760.4
14°	3257.4	3227.1	3261.5	3351.9	3499.5	3726.1	4043.4	4412.0	4871.8	5406.3	5956.8
15°	3228.9	3196.3	3230.3	3324.3	3477.7	3716.5	4054.9	4455.7	4955.8	5548.4	6158.2
16°	3202.3	3168.1	3203.2	3299.0	3459.7	3708.7	4069.6	4503.5	5045.0	5696.5	6370.2
17°	3178.0	3143.2	3179.4	3278.7	3445.4	3705.2	4088.5	4552.6	5139.9	5852.1	6585.5
18°	3156.7	3119.8	3158.4	3260.0	3432.5	3704.4	4109.3	4605.1	5236.6	6008.5	6806.7
19°	3136.6	3095.7	3138.9	3246.3	3422.1	3706.9	4133.2	4660.5	5336.7	6168.3	7024.0
20°	3115.8	3071.2	3120.8	3234.9	3414.6	3712.8	4159.0	4716.9	5438.3	6331.9	7238.0
21°	3094.6	3049.4	3103.2	3226.7	3410.3	3722.1	4187.8	4775.0	5544.6	6496.7	7448.8
22°	3075.4	3028.7	3088.1	3219.8	3407.6	3732.2	4217.3	4832.3	5651.2	6661.2	7648.3
23°	3059.0	3011.6	3074.3	3214.5	3407.5	3743.7	4246.0	4890.8	5763.2	6824.5	7848.5
24°	3044.7	2998.3	3062.5	3209.6	3407.8	3757.2	4273.9	4948.3	5873.3	6985.8	8036.8
25°	3034.1	2988.4	3053.5	3207.5	3408.1	3770.4	4302.6	5008.2	5983.4	7142.6	8221.2
26°	3027.2	2981.9	3048.9	3205.2	3409.2	3783.9	4331.8	5067.0	6094.7	7293.4	8402.9
27°	3023.2	2978.8	3047.4	3202.7	3409.9	3796.8	4359.4	5129.0	6208.2	7448.1	8587.9
28°	3022.4	2979.4	3048.5	3199.8	3411.4	3810.0	4388.1	5193.3	6325.3	7598.2	8776.3
29°	3023.2	2982.7	3051.1	3198.3	3414.0	3821.4	4417.7	5261.3	6448.9	7749.0	8956.7
30°	3025.5	2987.7	3054.5	3196.7	3417.0	3833.3	4449.6	5332.4	6570.9	7907.1	9135.1
31°	3029.3	2995.2	3057.5	3195.4	3421.6	3844.9	4483.5	5407.8	6703.4	8073.0	9322.1
32°	3034.2	3005.0	3061.6	3193.8	3426.0	3856.2	4517.9	5486.4	6836.4	8235.6	9486.8
33°	3039.4	3016.3	3066.8	3193.7	3431.8	3868.9	4553.1	5569.7	6975.3	8389.7	9640.2
34°	3045.6	3027.2	3072.3	3195.0	3438.4	3881.4	4591.0	5655.5	7109.0	8529.3	9766.0
35°	3052.2	3040.7	3078.7	3199.0	3447.2	3897.6	4633.0	5740.7	7230.1	8654.4	9848.3
36°	3060.7	3056.0	3086.4	3208.0	3458.3	3914.6	4673.6	5818.4	7346.0	8747.3	9874.0
37°	3070.2	3071.0	3095.0	3224.5	3473.8	3933.6	4709.3	5895.9	7443.5	8796.7	9863.4
38°	3078.9	3087.6	3103.0	3245.3	3496.2	3954.1	4743.5	5971.7	7510.7	8811.2	9824.6
39°	3086.8	3105.7	3109.3	3270.3	3523.0	3975.7	4771.8	6031.8	7554.8	8811.2	9781.8
40°	3095.9	3125.1	3116.1	3296.0	3552.6	3998.2	4803.1	6078.4	7577.8	8809.8	9759.4
41°	3104.5	3139.3	3123.8	3318.4	3584.5	4023.8	4830.4	6118.3	7595.6	8819.7	9760.7
42°	3112.4	3155.4	3132.7	3340.7	3618.1	4051.4	4860.5	6154.2	7624.6	8838.2	9776.5
43°	3120.0	3171.7	3143.5	3360.0	3651.3	4081.8	4894.7	6191.6	7671.3	8864.5	9797.6
44°	3127.1	3188.0	3153.9	3379.7	3683.7	4116.0	4931.4	6230.9	7722.0	8900.7	9815.3

REPORT NUMBER: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3135.1	3202.8	3164.3	3397.3	3716.3	4154.6	4967.5	6269.9	7771.4	8944.8	9827.2
46°	3143.1	3215.7	3174.7	3412.5	3745.9	4195.7	5003.9	6308.6	7816.9	8990.9	9829.2
47°	3154.4	3227.8	3187.4	3426.7	3774.8	4239.9	5045.5	6349.4	7861.0	9035.0	9823.2
48°	3170.1	3234.5	3203.8	3441.5	3800.8	4284.8	5094.0	6385.2	7907.1	9072.6	9809.4
49°	3187.8	3240.1	3223.3	3457.7	3826.6	4327.7	5143.3	6417.5	7952.5	9104.2	9789.7
50°	3206.4	3246.1	3245.3	3477.6	3852.1	4368.6	5193.5	6446.0	7994.6	9125.9	9762.7
51°	3227.4	3251.7	3269.5	3500.7	3878.8	4407.9	5244.0	6470.5	8030.2	9139.1	9731.1
52°	3251.9	3255.9	3295.3	3527.6	3908.6	4448.6	5294.4	6493.9	8058.5	9147.0	9692.2
53°	3280.0	3260.6	3323.4	3558.4	3941.5	4491.1	5343.6	6515.2	8079.6	9149.6	9645.5
54°	3311.2	3270.2	3353.7	3594.3	3979.3	4537.7	5389.2	6532.3	8092.1	9144.4	9590.8
55°	3346.3	3284.9	3387.6	3633.0	4021.7	4587.7	5429.7	6545.1	8097.4	9129.2	9528.2
56°	3385.3	3306.4	3426.3	3674.7	4069.4	4643.2	5469.8	6556.3	8093.4	9102.9	9450.5
57°	3428.4	3333.3	3468.1	3720.6	4123.4	4702.2	5504.7	6562.8	8081.6	9068.0	9355.1
58°	3474.3	3369.0	3515.2	3771.2	4183.9	4763.2	5536.1	6565.6	8062.5	9015.9	9241.1
59°	3527.7	3412.5	3565.0	3827.2	4249.3	4823.6	5565.2	6556.5	8032.8	8952.7	9116.0
60°	3581.4	3464.9	3617.9	3886.8	4319.5	4885.3	5588.6	6539.3	7988.1	8879.6	8979.7
61°	3637.1	3528.7	3676.5	3955.0	4396.4	4944.7	5604.4	6521.9	7934.7	8794.0	8830.9
62°	3697.8	3604.0	3744.5	4025.9	4478.8	5004.9	5612.1	6499.7	7871.5	8690.7	8665.0
63°	3775.3	3691.1	3828.0	4094.4	4565.7	5063.5	5616.4	6465.9	7791.2	8568.2	8473.4
64°	3866.3	3794.5	3922.8	4173.1	4661.9	5118.9	5609.6	6418.2	7695.7	8430.6	8244.2
65°	3969.8	3916.4	4029.2	4269.8	4762.0	5172.6	5590.5	6340.7	7577.8	8267.3	7982.8
66°	4089.0	4054.3	4149.7	4385.8	4866.5	5225.6	5556.8	6228.3	7422.4	8078.9	7691.7
67°	4228.2	4203.3	4288.4	4513.0	4974.2	5265.2	5492.5	6074.7	7226.2	7870.8	7380.3
68°	4376.7	4351.3	4439.0	4656.5	5089.0	5286.6	5388.8	5842.5	6991.1	7622.6	7041.8
69°	4522.9	4457.8	4577.3	4817.7	5208.5	5291.5	5212.0	5500.4	6717.2	7331.5	6677.7
70°	4654.5	4553.3	4700.8	4995.1	5334.0	5267.1	4918.1	5040.2	6367.9	6999.7	6281.9
71°	4776.8	4640.8	4817.9	5176.9	5462.5	5206.2	4536.0	4516.1	5927.7	6622.4	5870.0
72°	4886.6	4673.0	4917.9	5355.9	5591.7	5105.1	4170.7	4012.6	5427.1	6212.5	5455.8
73°	4932.0	4544.4	4954.5	5540.5	5702.1	4951.1	3891.1	3535.6	4838.9	5737.6	5028.6
74°	4831.9	4191.6	4819.1	5710.1	5754.0	4776.4	3646.3	3016.5	4212.3	5201.0	4585.2
75°	4527.7	3467.1	4458.0	5839.6	5745.0	4636.1	3247.8	2265.8	3521.0	4613.3	4098.0
76°	3979.5	2617.3	3891.5	5892.2	5646.6	4557.4	2549.9	1388.1	2759.4	3982.7	3542.7
77°	3222.9	2045.9	3170.7	5822.7	5450.9	4440.1	1809.2	644.7	1910.1	3276.6	2839.0
78°	2696.5	2162.9	2752.7	5479.2	5134.1	4064.2	1068.4	483.3	1088.3	2521.7	1937.7
79°	2817.1	2766.4	2986.8	4822.7	4638.2	3321.8	329.5	333.6	544.8	1800.6	1110.3
80°	3439.7	3188.5	3564.1	4087.5	3961.8	2345.8	233.7	183.9	377.8	1101.1	546.1
81°	3663.4	2879.0	3576.8	3431.5	3139.0	1369.9	189.8	157.9	220.1	559.2	413.9
82°	2892.1	2094.4	2641.1	3157.1	2356.5	408.7	161.2	137.1	180.0	369.7	285.0
83°	2091.8	1309.8	1756.7	2827.9	1793.8	291.1	132.5	117.0	152.8	190.9	245.2
84°	1291.5	533.5	884.7	2090.8	1231.2	243.4	104.1	96.7	126.8	149.9	212.3
85°	504.7	427.1	481.1	1353.8	674.9	199.1	81.9	75.9	99.2	115.3	180.5
86°	355.0	320.7	333.8	627.9	469.9	154.5	62.0	57.1	72.9	87.0	146.5
87°	205.4	214.3	186.5	502.9	264.9	110.1	44.5	38.2	52.2	62.1	106.4
88°	59.6	107.9	40.5	377.9	63.2	83.4	30.9	19.4	31.5	50.2	58.5
89°	31.1	1.8	21.5	252.9	33.3	56.8	17.2	6.3	10.7	38.3	44.5



REPORT NUMBER: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	4103.9	4103.9	4103.9
1°	4191.8	4204.6	4209.2
2°	4294.8	4318.3	4326.7
3°	4408.2	4445.8	4457.3
4°	4532.5	4586.0	4603.5
5°	4670.2	4739.6	4761.4
6°	4818.1	4909.3	4937.0
7°	4976.5	5088.6	5124.8
8°	5146.8	5280.5	5327.7
9°	5327.1	5491.4	5546.4
10°	5521.7	5716.0	5780.9
11°	5733.4	5958.6	6035.2
12°	5953.9	6210.0	6299.4
13°	6190.6	6485.5	6588.1
14°	6436.9	6770.5	6892.3
15°	6692.8	7062.9	7203.8
16°	6957.5	7371.1	7521.2
17°	7230.1	7680.5	7839.2
18°	7502.1	7984.1	8151.4
19°	7766.1	8275.8	8456.2
20°	8020.3	8557.6	8747.3
21°	8264.6	8823.7	9025.2
22°	8495.7	9071.3	9278.0
23°	8719.0	9318.9	9525.0
24°	8933.6	9555.2	9753.4
25°	9147.6	9784.4	9972.1
26°	9361.7	9985.2	10160.4
27°	9567.1	10163.7	10325.7
28°	9752.1	10320.4	10474.5
29°	9928.6	10476.5	10631.2
30°	10101.1	10653.6	10820.2
31°	10276.9	10815.6	10974.9
32°	10437.6	10932.1	11087.5
33°	10550.9	10984.8	11125.1
34°	10606.2	10966.4	11088.2
35°	10597.0	10878.8	10984.2
36°	10543.0	10756.3	10849.2
37°	10449.5	10631.9	10730.6
38°	10366.5	10551.5	10664.1
39°	10316.5	10506.8	10625.3
40°	10288.1	10480.4	10595.0
41°	10272.3	10458.0	10560.7
42°	10255.9	10434.3	10517.9
43°	10237.4	10403.4	10464.6
44°	10217.0	10365.2	10400.1



REPORT NUMBER: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	10190.0	10312.5	10321.1
46°	10157.8	10248.6	10233.5
47°	10118.9	10176.9	10142.0
48°	10070.2	10099.8	10048.4
49°	10010.9	10023.4	9953.6
50°	9942.4	9943.1	9852.2
51°	9862.1	9858.8	9740.3
52°	9771.2	9754.8	9613.2
53°	9679.0	9631.0	9471.6
54°	9581.6	9482.8	9305.0
55°	9473.6	9309.0	9122.6
56°	9348.5	9116.0	8909.3
57°	9200.3	8896.8	8668.9
58°	9028.5	8640.0	8395.7
59°	8836.2	8358.8	8105.3
60°	8617.6	8051.3	7756.9
61°	8367.3	7699.0	7329.6
62°	8094.7	7284.1	6823.2
63°	7802.4	6810.0	6250.0
64°	7471.8	6283.5	5669.1
65°	7107.7	5776.7	5125.7
66°	6706.6	5300.0	4663.4
67°	6300.0	4860.5	4301.9
68°	5886.0	4475.8	4013.5
69°	5490.7	4124.7	3720.8
70°	5109.8	3781.4	3262.3
71°	4715.3	3348.6	2545.8
72°	4277.4	2730.5	1690.9
73°	3835.2	1980.1	948.4
74°	3363.3	1272.3	719.7
75°	2772.4	739.5	495.9
76°	2149.6	578.6	272.1
77°	1629.7	420.2	229.3
78°	1201.5	261.7	199.9
79°	864.6	217.4	179.0
80°	659.7	187.4	160.8
81°	455.6	162.4	143.6
82°	251.4	142.3	127.2
83°	206.2	126.4	110.3
84°	165.8	106.9	93.6
85°	118.8	85.8	76.4
86°	87.0	67.6	58.8
87°	62.9	50.2	41.3
88°	40.9	32.8	23.8
89°	18.8	15.3	11.1



REPORT NUMBER: P1436801
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

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: P1436801

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)