

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: P1436759

Luminaire Tested: XAS180-SFPM (5000K-180W-T3)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436759
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-T3)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 3
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

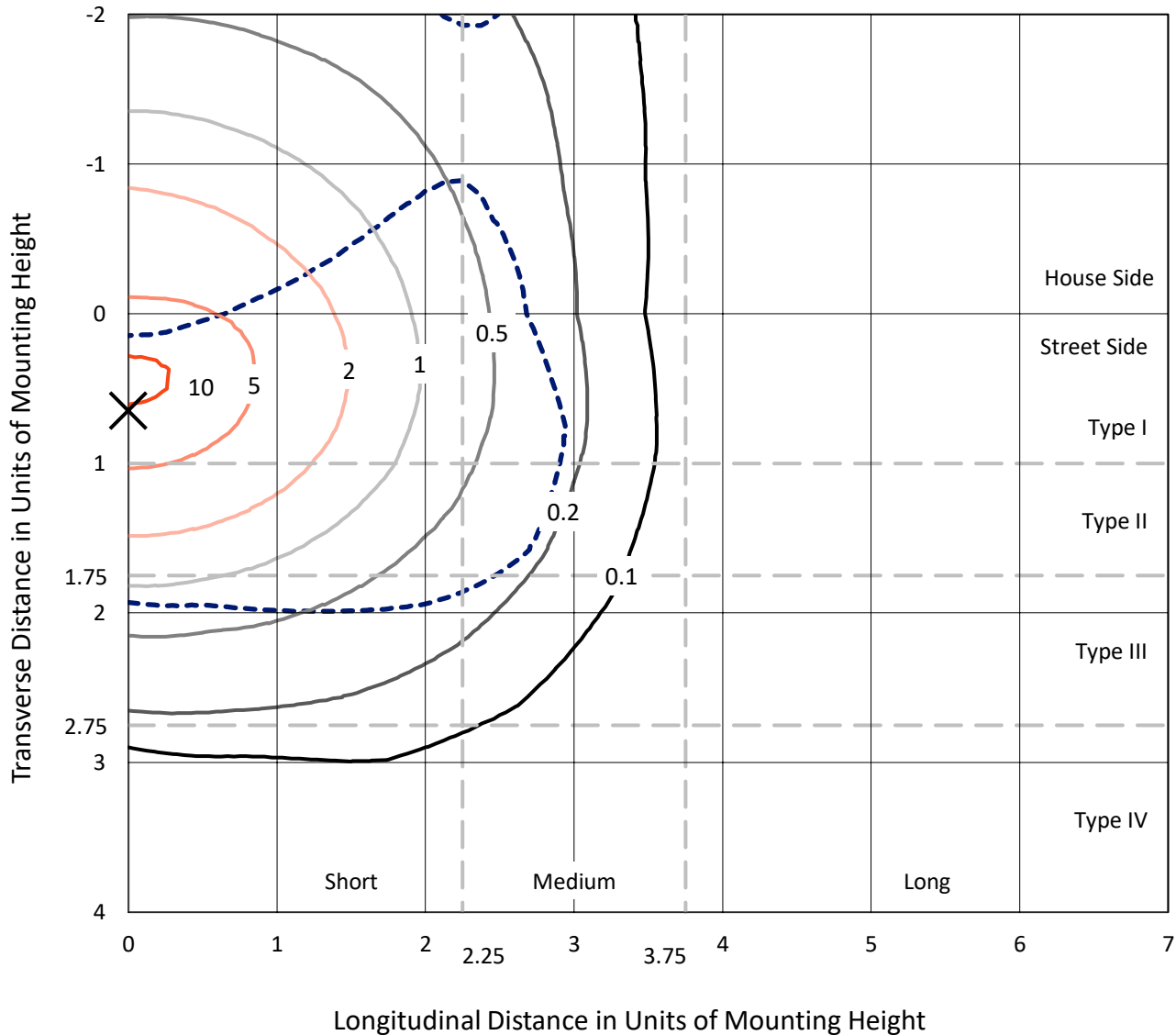
Lumens per Lamp: 27928 (1 lamp)
Luminaire Lumens: 26846.4 lumens
Efficiency: 96.1%
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.35m x L: 0.35m x H: 0.35m)
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 180.7
Input Voltage (V): 120
Input Current (A_{in}): 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

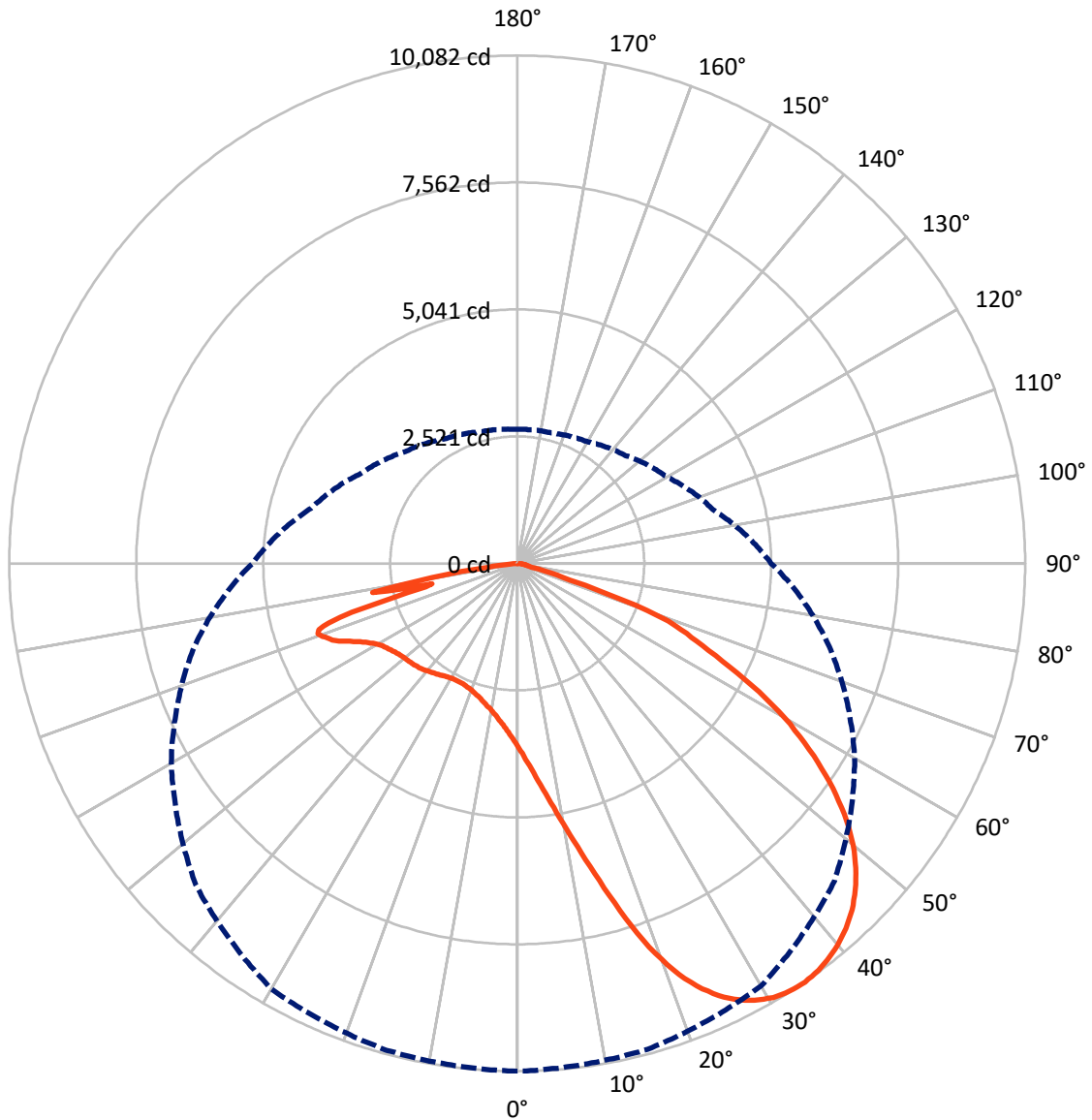
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - Semi-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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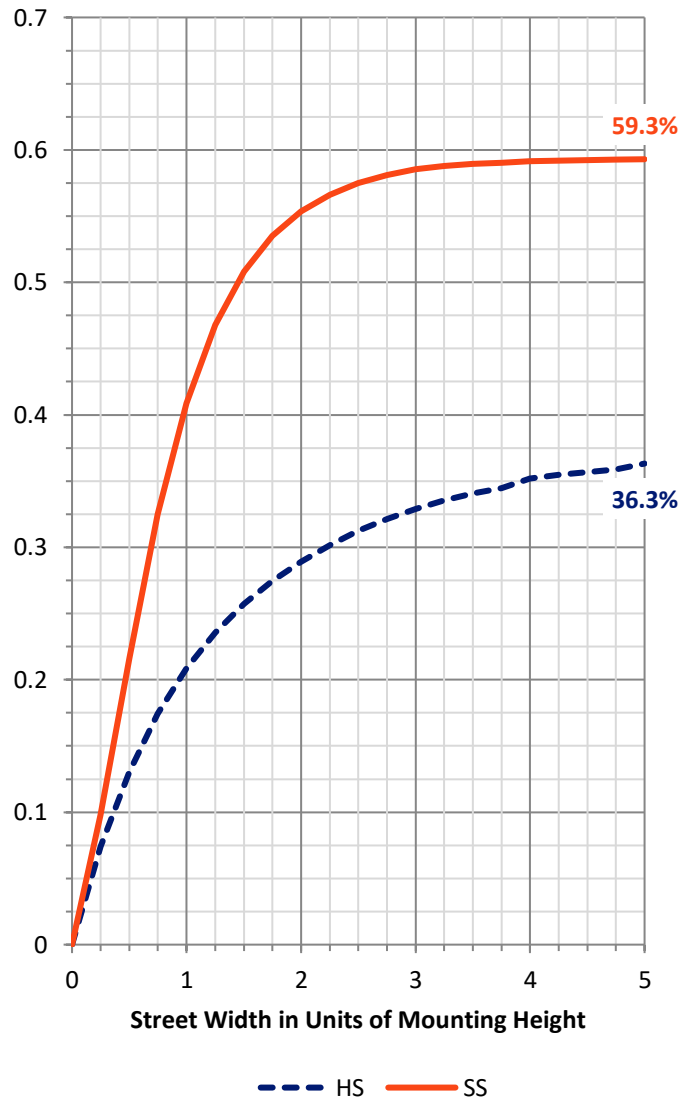
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10272.8	0.0	10272.8
	% Lamp	36.8	0.0	36.8
Street Side	Lumens	16573.6	0.0	16573.6
	% Lamp	59.3	0.0	59.3
Total	Lumens	26846.4	0.0	26846.4
	% Lamp	96.1	0.0	96.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	366.2	1.4	1.3
10°-20°	1276.2	4.8	4.6
20°-30°	2507.2	9.3	9.0
30°-40°	3753.3	14.0	13.4
40°-50°	4778.9	17.8	17.1
50°-60°	5343.1	19.9	19.1
60°-70°	5162.2	19.2	18.5
70°-80°	3219.3	12.0	11.5
80°-90°	440.1	1.6	1.6
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°	26846.4	100.0	96.1
0°-180°	26846.4	100.0	96.1

Coefficient of Utilization



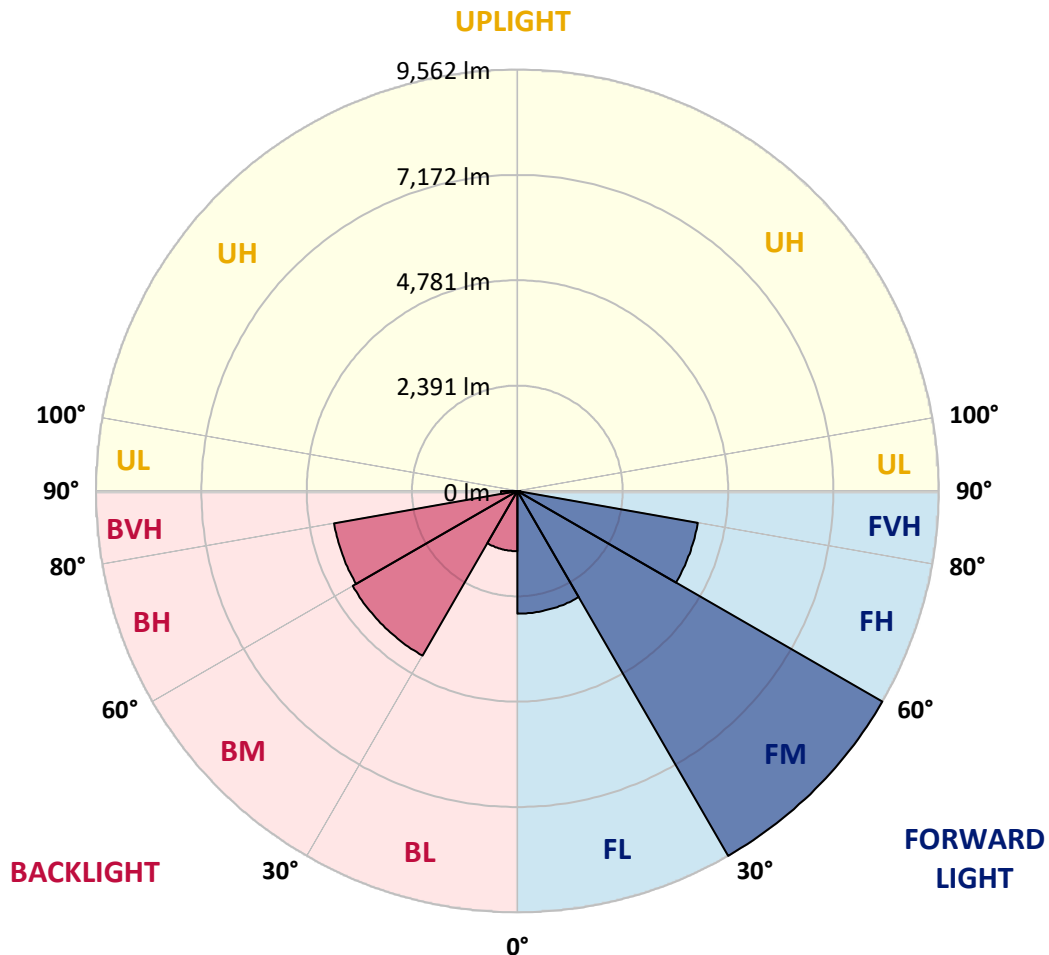
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2783.9	10.0			
FM (30°-60°)	9562.4	34.2			
FH (60°-80°)	4157.6	14.9			G2/5000
FVH (80°-90°)	69.7	0.2			G1/100
BL (0°-30°)	1365.7	4.9	B3/2500		
BM (30°-60°)	4312.9	15.4	B3/5000		
BH (60°-80°)	4223.8	15.1	B4/5000		G4/5000
BVH (80°-90°)	370.4	1.3			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	1081.6	3.9			

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°	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9
1°	3773.1	3770.3	3762.8	3746.9	3726.4	3701.6	3654.9	3628.0	3604.3	3585.2	3574.0
2°	3894.6	3888.0	3868.5	3830.7	3785.3	3731.0	3656.6	3604.0	3558.2	3520.1	3494.5
3°	4028.0	4016.8	3979.4	3921.6	3848.6	3765.9	3663.4	3584.7	3516.5	3462.1	3421.4
4°	4175.7	4158.3	4101.8	4019.8	3918.4	3804.7	3671.3	3568.2	3478.9	3407.5	3356.4
5°	4335.6	4312.7	4237.2	4126.5	3991.4	3845.5	3682.4	3554.4	3444.8	3359.6	3298.0
6°	4511.3	4477.4	4383.2	4243.6	4073.3	3892.0	3696.2	3543.7	3414.7	3315.4	3242.5
7°	4697.9	4657.7	4543.2	4369.0	4160.3	3943.1	3716.6	3539.0	3388.8	3274.8	3191.7
8°	4902.4	4850.2	4712.7	4502.7	4254.6	3999.1	3739.2	3537.0	3367.6	3237.4	3146.0
9°	5124.3	5061.1	4895.4	4646.5	4356.8	4058.9	3765.1	3537.4	3349.0	3204.1	3102.7
10°	5361.7	5285.0	5090.6	4800.2	4464.8	4124.0	3795.6	3540.8	3333.7	3175.3	3063.0
11°	5615.0	5528.7	5298.8	4965.4	4577.4	4192.5	3829.7	3547.8	3320.4	3148.9	3029.1
12°	5889.7	5787.1	5520.4	5137.4	4695.9	4266.1	3865.4	3556.9	3310.1	3125.8	2998.2
13°	6185.0	6066.4	5761.6	5320.6	4823.9	4343.0	3902.1	3567.9	3302.3	3105.0	2970.5
14°	6503.5	6370.0	6021.2	5517.4	4955.5	4423.1	3941.3	3578.9	3294.9	3087.1	2943.8
15°	6842.9	6686.3	6293.2	5723.0	5095.3	4505.7	3982.1	3591.5	3289.8	3071.5	2918.8
16°	7195.2	7021.4	6572.0	5944.3	5244.2	4592.5	4027.1	3606.6	3286.0	3056.4	2896.2
17°	7545.3	7350.4	6851.8	6170.2	5396.3	4683.0	4073.5	3623.5	3285.0	3042.7	2874.9
18°	7890.0	7675.5	7130.2	6397.2	5556.9	4775.9	4122.4	3641.9	3284.0	3030.6	2855.4
19°	8212.1	7984.9	7405.9	6617.1	5725.6	4872.5	4172.6	3662.8	3284.0	3020.2	2839.2
20°	8507.2	8277.3	7669.9	6836.4	5896.2	4973.0	4225.3	3685.2	3284.7	3010.7	2825.7
21°	8771.2	8543.1	7924.8	7053.3	6065.1	5076.9	4279.2	3709.3	3287.0	3002.0	2813.7
22°	9003.2	8781.2	8158.4	7258.4	6231.2	5186.4	4334.8	3732.5	3292.2	2995.4	2803.1
23°	9208.2	8994.2	8378.2	7456.4	6397.5	5297.0	4392.5	3757.2	3297.6	2990.5	2794.6
24°	9385.1	9183.5	8582.4	7643.4	6559.4	5411.4	4452.5	3784.3	3304.4	2987.3	2786.2
25°	9538.1	9350.7	8769.2	7819.1	6715.2	5527.2	4511.6	3811.4	3312.3	2986.4	2779.9
26°	9667.6	9492.9	8938.1	7985.8	6867.6	5644.1	4572.4	3839.2	3322.2	2987.7	2774.7
27°	9777.2	9614.8	9091.3	8146.4	7011.2	5761.4	4636.3	3866.3	3333.8	2989.3	2770.9
28°	9867.6	9720.5	9227.3	8296.9	7148.2	5876.3	4701.1	3893.8	3346.0	2992.6	2769.0
29°	9942.6	9803.2	9347.5	8437.1	7277.2	5988.5	4768.0	3921.6	3360.3	2997.7	2769.1
30°	10000.2	9871.4	9452.9	8570.0	7403.3	6098.6	4834.6	3951.4	3375.7	3003.9	2770.1
31°	10040.6	9925.3	9542.0	8691.8	7518.1	6206.4	4902.5	3981.2	3392.6	3012.1	2773.5
32°	10068.5	9961.8	9615.7	8802.5	7628.0	6312.0	4971.6	4012.6	3410.8	3021.2	2779.1
33°	10082.0	9984.9	9681.1	8906.6	7731.6	6415.4	5040.3	4045.6	3430.1	3031.1	2786.6
34°	10082.0	9994.5	9731.1	8999.6	7828.2	6513.1	5108.7	4077.4	3451.0	3042.7	2795.7
35°	10071.4	9992.6	9767.6	9083.1	7919.5	6606.0	5178.0	4111.7	3472.3	3056.4	2807.1
36°	10048.3	9980.1	9790.7	9157.1	8005.7	6696.8	5245.9	4146.9	3494.8	3071.5	2820.4
37°	10014.7	9958.0	9800.3	9220.6	8087.1	6784.1	5314.7	4182.3	3517.7	3088.8	2835.1
38°	9970.4	9926.2	9801.3	9272.7	8161.7	6866.7	5381.8	4219.3	3542.3	3107.4	2851.3
39°	9919.5	9886.8	9789.7	9317.4	8233.0	6946.6	5451.1	4256.9	3567.5	3127.9	2867.9
40°	9859.9	9837.8	9767.6	9352.3	8298.3	7022.7	5518.7	4297.0	3593.9	3150.1	2885.4
41°	9789.7	9778.2	9734.9	9377.8	8359.0	7094.8	5583.2	4339.0	3620.8	3172.8	2903.3
42°	9707.1	9713.8	9691.7	9395.5	8414.6	7164.1	5645.8	4380.4	3649.4	3197.3	2923.0
43°	9614.8	9635.9	9638.8	9401.5	8466.8	7231.1	5706.3	4423.0	3680.2	3223.8	2942.6
44°	9511.1	9546.8	9577.4	9396.9	8512.0	7294.7	5763.7	4467.8	3711.6	3250.5	2962.8



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CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	9392.3	9450.2	9503.2	9382.0	8552.6	7355.3	5818.8	4512.8	3745.3	3278.2	2983.0
46°	9258.6	9338.6	9420.7	9358.4	8591.2	7416.9	5874.5	4560.5	3781.3	3305.3	3003.8
47°	9117.6	9213.6	9329.8	9324.1	8622.6	7471.8	5927.9	4607.6	3818.5	3333.4	3025.8
48°	8963.9	9076.0	9227.0	9275.4	8648.1	7522.5	5977.7	4658.2	3856.5	3363.2	3049.9
49°	8795.8	8920.2	9111.5	9219.8	8668.2	7568.0	6022.9	4709.3	3897.6	3395.3	3074.7
50°	8607.6	8749.1	8980.6	9149.8	8679.7	7609.2	6067.2	4761.5	3940.0	3428.2	3102.3
51°	8401.6	8559.8	8837.5	9065.9	8683.3	7644.2	6110.6	4816.3	3984.3	3464.4	3131.4
52°	8179.8	8357.0	8677.9	8965.7	8677.4	7673.3	6149.8	4872.9	4030.9	3501.7	3161.3
53°	7943.5	8134.5	8507.5	8854.9	8661.6	7695.8	6185.4	4927.4	4079.7	3541.4	3193.0
54°	7694.4	7890.9	8316.7	8728.6	8631.7	7713.4	6215.8	4979.7	4132.8	3584.1	3226.6
55°	7431.4	7640.4	8111.4	8588.7	8587.4	7723.4	6242.8	5028.8	4187.8	3629.8	3264.0
56°	7157.0	7369.7	7887.2	8431.4	8529.4	7722.4	6263.5	5074.0	4244.1	3680.1	3303.3
57°	6875.3	7100.8	7653.9	8262.3	8454.7	7708.6	6281.1	5116.5	4302.2	3732.6	3347.0
58°	6582.6	6812.2	7406.1	8074.7	8359.7	7683.6	6290.9	5155.3	4362.0	3793.2	3396.0
59°	6283.0	6521.9	7153.5	7870.6	8248.7	7643.9	6290.6	5190.7	4423.6	3858.2	3450.7
60°	5959.8	6219.4	6888.0	7655.8	8120.2	7588.2	6280.7	5224.1	4486.9	3925.8	3510.5
61°	5616.6	5905.6	6614.3	7423.5	7969.6	7517.4	6260.1	5250.1	4548.5	3998.8	3576.0
62°	5251.4	5575.4	6335.6	7179.6	7808.7	7427.1	6226.8	5267.0	4611.5	4076.6	3645.2
63°	4879.0	5228.2	6051.6	6923.6	7631.8	7316.2	6176.5	5274.8	4673.2	4162.9	3720.7
64°	4510.7	4882.9	5763.2	6659.8	7437.3	7185.3	6107.3	5271.6	4733.7	4253.0	3807.6
65°	4173.4	4539.9	5466.0	6391.5	7227.3	7031.8	6023.8	5257.4	4791.2	4348.6	3906.1
66°	3881.7	4225.1	5168.5	6123.1	6995.6	6858.7	5917.1	5224.3	4843.8	4454.4	4012.4
67°	3638.1	3945.8	4875.7	5856.7	6752.6	6658.6	5779.9	5175.1	4888.7	4562.5	4137.8
68°	3387.3	3695.5	4593.4	5588.0	6482.6	6435.2	5567.2	5096.4	4925.7	4674.1	4282.0
69°	3021.0	3441.2	4328.6	5319.5	6199.4	6172.8	5253.7	4935.0	4944.2	4794.0	4444.8
70°	2479.6	3113.6	4078.5	5049.8	5895.5	5842.0	4837.6	4679.1	4949.1	4919.5	4616.6
71°	1756.8	2642.7	3834.1	4782.8	5553.4	5441.6	4329.5	4345.4	4917.2	5049.6	4745.2
72°	1095.1	2003.8	3562.2	4513.9	5165.5	4967.4	3854.3	3988.4	4832.7	5173.4	4871.5
73°	825.2	1318.2	3243.2	4230.6	4731.9	4448.6	3440.1	3686.0	4688.4	5284.2	5038.2
74°	558.1	978.1	2811.1	3905.9	4255.5	3910.8	2937.3	3428.6	4513.5	5346.7	5193.2
75°	291.0	649.3	2197.4	3492.5	3747.4	3330.1	2223.6	3069.6	4332.8	5372.7	5313.6
76°	248.3	320.5	1529.6	2977.6	3221.0	2613.5	1509.9	2368.8	4194.7	5302.1	5346.7
77°	215.1	264.4	980.4	2341.2	2671.4	1772.3	797.0	1668.1	4047.6	5124.8	5254.1
78°	188.3	225.7	752.6	1575.8	2072.5	1018.6	421.2	969.2	3749.3	4758.0	4799.6
79°	165.5	195.2	531.2	849.7	1451.3	772.2	282.8	493.9	3098.9	4243.1	4131.1
80°	144.5	169.3	309.8	567.7	890.0	538.7	245.0	300.9	2119.5	3627.3	3437.1
81°	125.5	146.1	248.1	289.3	572.0	305.2	207.2	249.6	1146.3	2792.1	3160.9
82°	108.0	125.3	208.8	238.9	262.9	259.1	169.6	198.2	546.7	2228.5	3045.9
83°	92.3	105.6	175.3	204.1	194.0	212.1	142.5	146.8	356.0	1664.7	2373.0
84°	76.4	88.8	142.1	173.6	154.9	160.7	116.9	117.1	290.6	1103.3	1700.0
85°	60.5	72.1	107.1	144.6	119.7	121.0	92.3	91.6	241.2	693.8	1028.2
86°	46.0	55.4	83.1	117.1	88.7	90.2	68.6	70.1	191.8	492.8	596.9
87°	31.8	40.5	59.2	87.3	64.6	66.1	47.3	51.1	142.3	291.7	478.0
88°	19.0	26.5	35.2	53.0	40.6	42.1	32.8	36.1	91.8	95.7	359.0
89°	8.8	12.5	15.8	18.6	19.3	20.5	18.4	21.0	62.2	64.5	240.1



REPORT NUMBER: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9	3663.9
1°	3565.8	3565.0	3572.0	3585.1	3603.7	3627.2	3652.6	3661.0	3687.8	3712.4	3735.9
2°	3479.9	3476.3	3487.0	3509.8	3543.5	3585.8	3635.5	3669.6	3723.7	3777.0	3824.1
3°	3399.8	3394.2	3407.9	3439.4	3488.2	3549.8	3621.6	3682.0	3763.4	3845.5	3919.4
4°	3327.3	3320.8	3337.9	3376.1	3437.4	3517.3	3612.0	3697.5	3809.1	3920.2	4022.8
5°	3262.3	3253.7	3271.9	3319.2	3392.1	3489.0	3604.4	3716.7	3856.7	3999.9	4134.2
6°	3201.0	3189.4	3210.9	3266.4	3351.6	3463.8	3601.0	3738.9	3910.4	4087.9	4254.2
7°	3144.0	3130.5	3155.1	3216.3	3313.5	3442.7	3601.1	3765.1	3968.1	4182.4	4384.5
8°	3092.4	3077.6	3102.8	3171.9	3280.2	3425.1	3603.9	3794.4	4029.0	4282.0	4525.3
9°	3043.5	3027.0	3055.6	3130.3	3249.0	3409.5	3608.3	3824.8	4095.6	4390.6	4675.5
10°	2999.9	2981.3	3012.8	3092.3	3221.1	3395.3	3615.9	3860.9	4167.4	4504.8	4832.5
11°	2960.7	2940.1	2974.0	3059.5	3197.3	3384.7	3626.4	3900.8	4243.9	4626.5	5003.8
12°	2924.3	2902.7	2937.9	3030.3	3176.0	3376.8	3640.0	3941.9	4322.2	4753.4	5182.1
13°	2891.4	2866.7	2904.2	3003.3	3158.9	3371.3	3656.6	3986.0	4405.8	4889.9	5378.6
14°	2859.2	2833.2	2873.1	2978.2	3143.8	3368.8	3674.0	4032.7	4493.9	5030.4	5583.6
15°	2830.0	2803.3	2844.4	2953.9	3131.7	3368.8	3691.9	4081.0	4584.9	5181.4	5802.4
16°	2803.0	2773.8	2817.6	2931.8	3119.2	3369.8	3711.8	4132.6	4679.6	5342.2	6032.0
17°	2778.6	2748.4	2793.4	2912.2	3108.1	3372.1	3734.1	4185.2	4778.9	5509.5	6267.9
18°	2756.4	2723.6	2770.9	2893.6	3099.2	3376.6	3757.7	4239.7	4882.0	5683.2	6507.3
19°	2736.1	2701.7	2750.1	2878.7	3090.1	3382.4	3783.7	4296.3	4989.1	5861.6	6743.1
20°	2717.6	2682.2	2731.5	2865.7	3082.3	3388.0	3811.0	4354.3	5099.5	6044.1	6975.1
21°	2702.5	2664.9	2716.4	2854.6	3075.9	3395.3	3839.7	4416.1	5213.7	6228.3	7196.3
22°	2688.6	2650.0	2702.8	2845.9	3072.7	3403.5	3869.4	4478.1	5333.2	6410.4	7403.4
23°	2676.6	2638.0	2691.8	2838.3	3070.5	3413.2	3899.6	4543.2	5458.9	6586.7	7602.3
24°	2666.6	2628.6	2682.9	2832.2	3070.5	3424.0	3930.0	4609.7	5586.8	6756.2	7787.2
25°	2659.8	2621.5	2677.2	2827.4	3072.2	3436.0	3960.9	4677.2	5713.7	6920.4	7962.1
26°	2654.6	2616.8	2673.6	2825.2	3074.9	3449.0	3994.4	4745.7	5841.7	7074.1	8127.1
27°	2651.1	2614.3	2671.1	2823.6	3079.6	3462.5	4026.3	4815.4	5970.4	7220.2	8283.6
28°	2649.9	2615.3	2671.5	2824.3	3085.8	3477.8	4060.2	4887.3	6097.3	7355.8	8429.6
29°	2651.3	2619.3	2674.7	2826.3	3093.8	3494.0	4093.5	4961.0	6220.9	7486.5	8568.4
30°	2654.8	2625.9	2680.9	2830.4	3102.4	3512.3	4128.6	5034.8	6340.0	7608.8	8694.8
31°	2660.6	2634.7	2688.0	2836.7	3112.4	3531.9	4162.6	5108.2	6455.3	7721.1	8813.9
32°	2667.8	2646.0	2696.6	2845.5	3125.1	3553.0	4197.5	5181.8	6563.9	7828.0	8921.7
33°	2676.6	2659.1	2706.0	2855.7	3138.7	3574.3	4232.2	5256.0	6668.4	7928.9	9023.3
34°	2686.6	2672.7	2716.0	2866.9	3153.1	3596.5	4268.7	5330.2	6767.8	8023.8	9113.8
35°	2697.1	2688.5	2726.9	2879.7	3169.5	3620.2	4305.8	5405.5	6862.1	8112.8	9195.8
36°	2707.5	2705.4	2738.2	2894.0	3185.9	3644.6	4345.5	5479.7	6953.5	8195.1	9267.8
37°	2718.5	2722.4	2750.2	2910.4	3203.8	3669.1	4385.0	5552.9	7037.3	8272.1	9329.8
38°	2729.0	2740.0	2763.6	2927.4	3223.5	3694.8	4426.6	5625.0	7118.9	8345.2	9384.7
39°	2740.1	2757.7	2776.9	2946.1	3244.6	3722.3	4468.7	5695.2	7193.7	8413.3	9427.6
40°	2752.2	2775.0	2790.8	2966.2	3267.1	3750.8	4512.6	5765.0	7265.4	8475.4	9461.4
41°	2764.3	2792.2	2804.7	2987.0	3290.3	3780.6	4556.4	5829.3	7334.3	8532.1	9482.6
42°	2776.0	2809.5	2819.6	3008.1	3315.4	3812.5	4600.9	5893.4	7401.0	8584.2	9492.5
43°	2789.0	2826.2	2835.3	3030.5	3341.1	3845.9	4648.1	5956.0	7464.7	8629.2	9495.0
44°	2803.6	2842.6	2852.9	3052.9	3368.4	3880.5	4695.9	6020.0	7523.8	8669.4	9487.5

REPORT NUMBER: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2819.2	2857.1	2870.9	3075.9	3396.9	3916.1	4744.2	6079.8	7579.2	8704.6	9466.3
46°	2835.8	2869.1	2889.6	3100.0	3427.0	3951.9	4793.9	6133.3	7628.1	8733.3	9434.2
47°	2853.8	2879.9	2909.8	3123.9	3457.6	3991.3	4844.0	6182.4	7673.2	8755.2	9390.4
48°	2873.8	2891.5	2931.0	3148.5	3491.0	4032.2	4893.3	6229.2	7711.0	8768.7	9336.3
49°	2896.1	2903.2	2953.6	3173.3	3523.8	4075.4	4944.1	6271.9	7742.4	8773.8	9270.0
50°	2921.1	2913.9	2978.8	3200.6	3559.1	4122.9	4996.1	6310.8	7767.2	8770.2	9193.3
51°	2949.8	2926.5	3005.9	3228.9	3595.9	4171.7	5047.8	6343.9	7785.4	8758.5	9101.8
52°	2980.4	2943.1	3035.2	3259.7	3635.8	4221.0	5099.8	6373.8	7796.6	8735.3	8995.3
53°	3011.1	2963.6	3066.2	3292.1	3678.8	4272.1	5146.2	6396.4	7800.3	8702.0	8877.1
54°	3044.0	2984.9	3101.1	3328.4	3726.3	4324.2	5191.2	6413.6	7795.3	8658.4	8746.4
55°	3081.9	3009.8	3139.1	3367.6	3777.5	4377.1	5231.4	6426.1	7779.7	8601.0	8601.4
56°	3122.2	3039.4	3178.4	3409.9	3832.3	4432.9	5267.7	6430.2	7749.3	8529.8	8440.5
57°	3164.2	3072.4	3221.1	3458.1	3890.9	4489.5	5300.1	6427.4	7706.3	8442.7	8265.9
58°	3206.6	3100.7	3265.4	3510.7	3952.4	4545.4	5327.7	6417.9	7651.4	8336.2	8072.4
59°	3247.8	3131.9	3307.5	3568.8	4021.0	4596.5	5348.4	6399.1	7585.6	8218.7	7867.7
60°	3294.1	3178.8	3354.9	3632.8	4090.9	4647.5	5366.1	6368.0	7504.4	8080.7	7647.2
61°	3354.7	3243.0	3417.2	3703.7	4166.6	4699.6	5376.9	6323.9	7407.6	7926.0	7411.0
62°	3425.4	3310.1	3490.9	3780.2	4244.4	4750.9	5378.7	6266.5	7293.8	7757.6	7164.3
63°	3505.1	3388.5	3571.6	3858.8	4327.9	4800.7	5369.7	6193.3	7162.5	7567.4	6910.7
64°	3596.8	3487.2	3668.2	3947.0	4414.1	4846.9	5353.1	6099.2	7014.9	7359.8	6646.3
65°	3703.8	3597.7	3777.5	4049.3	4507.2	4890.0	5321.5	5986.3	6843.3	7140.3	6377.4
66°	3827.7	3724.4	3900.1	4160.5	4602.2	4925.0	5271.2	5846.7	6648.3	6904.0	6107.0
67°	3962.4	3860.8	4030.9	4282.4	4695.8	4956.6	5198.0	5658.7	6434.1	6647.4	5836.8
68°	4106.2	3970.8	4167.7	4422.3	4794.7	4977.5	5064.6	5374.4	6178.5	6374.7	5562.9
69°	4194.9	4042.7	4248.2	4579.5	4905.1	4981.9	4837.0	4980.4	5867.7	6074.4	5292.2
70°	4270.3	4132.8	4319.7	4740.4	5015.0	4968.3	4505.8	4483.6	5479.8	5736.7	5015.6
71°	4377.4	4196.9	4419.3	4861.5	5128.4	4911.9	4117.8	3971.7	5002.8	5347.4	4726.1
72°	4445.9	4152.8	4481.6	4989.3	5232.1	4793.1	3763.0	3497.2	4468.5	4915.7	4432.5
73°	4425.2	3925.4	4462.6	5150.5	5314.4	4608.6	3451.2	3033.6	3911.5	4436.4	4107.9
74°	4284.7	3422.6	4327.8	5293.9	5338.4	4415.4	3109.5	2453.4	3359.8	3908.7	3736.2
75°	3877.5	2619.6	3941.4	5386.6	5298.5	4225.7	2441.6	1692.5	2741.1	3351.9	3286.7
76°	3165.6	1875.9	3243.8	5398.9	5128.6	4029.6	1773.7	961.6	1989.6	2803.0	2745.0
77°	2428.8	1739.4	2573.8	5283.8	4878.0	3762.6	1108.8	716.8	1208.6	2258.9	2087.6
78°	2332.2	2337.4	2548.9	4796.4	4484.9	3218.8	560.1	484.6	909.4	1680.5	1357.7
79°	2926.2	2928.3	3129.5	4060.3	4031.0	2348.7	322.4	252.5	622.6	1100.0	994.3
80°	3413.2	2320.4	3480.6	3293.2	3400.4	1478.6	267.7	214.3	335.8	810.6	635.0
81°	2628.9	1712.4	2638.1	3047.4	2680.4	626.0	213.1	183.3	279.6	523.6	275.8
82°	1844.6	1106.2	1795.5	3048.8	1960.4	378.7	159.0	154.9	238.3	236.6	232.1
83°	1063.2	568.8	965.6	2293.1	1243.4	292.5	130.0	128.9	193.1	180.9	199.5
84°	591.5	399.8	570.0	1537.5	730.4	241.5	104.7	103.9	148.4	143.7	169.0
85°	425.6	230.7	373.0	799.1	522.9	190.6	81.8	82.2	110.9	108.6	139.9
86°	259.8	66.0	242.1	639.2	315.3	139.8	61.9	60.5	85.6	83.7	111.9
87°	94.9	44.5	112.2	479.3	113.4	97.8	44.4	38.8	60.4	58.9	79.4
88°	64.3	23.0	60.7	319.4	76.6	66.4	30.8	21.8	35.2	34.1	46.8
89°	33.7	1.6	9.2	159.6	39.8	35.1	17.1	8.0	14.8	14.2	14.1



REPORT NUMBER: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3663.9	3663.9	3663.9
1°	3754.0	3766.6	3773.1
2°	3862.8	3886.1	3894.6
3°	3977.0	4016.2	4028.0
4°	4104.3	4158.8	4175.7
5°	4242.0	4312.0	4335.6
6°	4391.7	4481.0	4511.3
7°	4554.2	4662.9	4697.9
8°	4724.3	4857.1	4902.4
9°	4914.3	5070.2	5124.3
10°	5111.3	5298.9	5361.7
11°	5326.6	5546.4	5615.0
12°	5559.0	5807.4	5889.7
13°	5805.3	6093.4	6185.0
14°	6071.1	6399.2	6503.5
15°	6345.3	6714.6	6842.9
16°	6630.0	7041.9	7195.2
17°	6919.6	7376.8	7545.3
18°	7210.4	7710.3	7890.0
19°	7487.0	8024.9	8212.1
20°	7759.0	8317.3	8507.2
21°	8005.5	8589.4	8771.2
22°	8239.3	8828.7	9003.2
23°	8464.3	9042.1	9208.2
24°	8669.0	9227.4	9385.1
25°	8857.3	9390.8	9538.1
26°	9030.0	9530.1	9667.6
27°	9181.4	9647.5	9777.2
28°	9316.5	9746.5	9867.6
29°	9437.1	9830.1	9942.6
30°	9539.1	9894.5	10000.2
31°	9627.3	9944.5	10040.6
32°	9698.4	9982.0	10068.5
33°	9756.1	10005.1	10082.0
34°	9802.2	10014.7	10082.0
35°	9835.9	10010.8	10071.4
36°	9855.1	9995.4	10048.3
37°	9862.8	9970.4	10014.7
38°	9858.9	9936.8	9970.4
39°	9843.6	9895.5	9919.5
40°	9818.6	9845.5	9859.9
41°	9782.0	9786.8	9789.7
42°	9735.9	9719.6	9707.1
43°	9679.2	9642.7	9614.8
44°	9613.8	9559.4	9511.1



REPORT NUMBER: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	9539.0	9462.5	9392.3
46°	9456.4	9353.0	9258.6
47°	9360.7	9231.5	9117.6
48°	9257.0	9097.1	8963.9
49°	9142.4	8942.9	8795.8
50°	9012.5	8778.4	8607.6
51°	8868.9	8592.9	8401.6
52°	8707.0	8391.6	8179.8
53°	8533.2	8172.9	7943.5
54°	8344.4	7935.7	7694.4
55°	8142.7	7683.8	7431.4
56°	7919.1	7416.8	7157.0
57°	7683.6	7138.9	6875.3
58°	7434.7	6849.1	6582.6
59°	7178.0	6553.0	6283.0
60°	6909.6	6253.8	5959.8
61°	6635.3	5935.5	5616.6
62°	6353.5	5602.9	5251.4
63°	6070.6	5266.3	4879.0
64°	5786.3	4923.0	4510.7
65°	5500.0	4587.7	4173.4
66°	5215.9	4274.8	3881.7
67°	4929.0	3997.0	3638.1
68°	4647.0	3750.4	3387.3
69°	4379.9	3493.0	3021.0
70°	4130.4	3178.9	2479.6
71°	3874.2	2731.6	1756.8
72°	3586.9	2110.6	1095.1
73°	3248.0	1424.1	825.2
74°	2776.0	830.1	558.1
75°	2162.5	583.3	291.0
76°	1529.0	338.9	248.3
77°	995.2	273.5	215.1
78°	766.4	232.4	188.3
79°	537.7	200.6	165.5
80°	309.1	173.6	144.5
81°	248.8	149.7	125.5
82°	207.8	128.4	108.0
83°	173.4	108.6	92.3
84°	139.5	91.7	76.4
85°	104.1	74.3	60.5
86°	80.3	56.9	46.0
87°	56.5	41.2	31.8
88°	32.6	26.5	19.0
89°	13.8	12.1	8.8



REPORT NUMBER: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1436759

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)