

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: P1445024

Luminaire Tested: XAS180-SFPM (5000K-144W-T5)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445024
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (5000K-144W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 80% (144W)
OPTICS - TYPE 5
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 22674.2 lumens
Efficiency: 80.8%
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 146
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

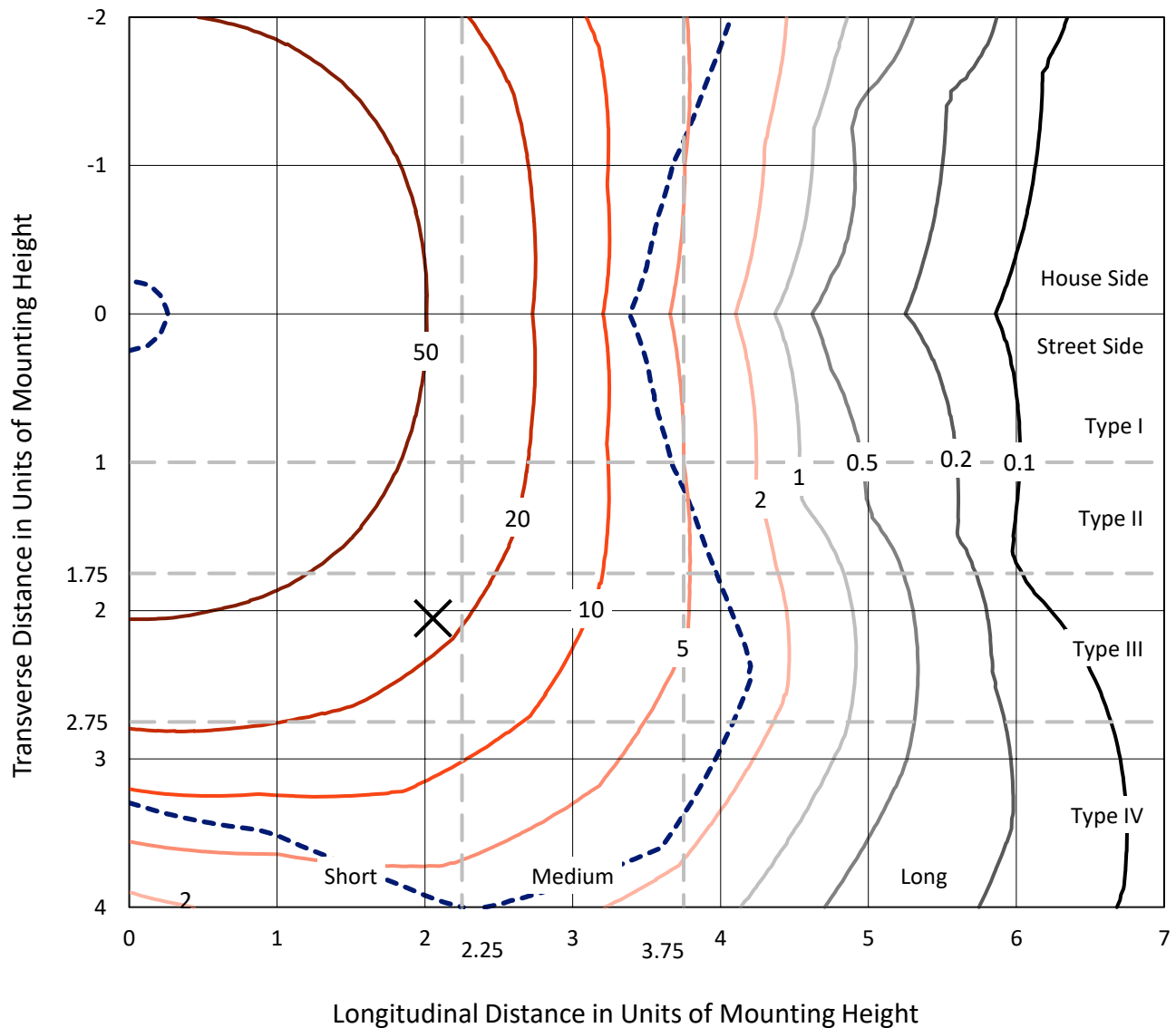
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

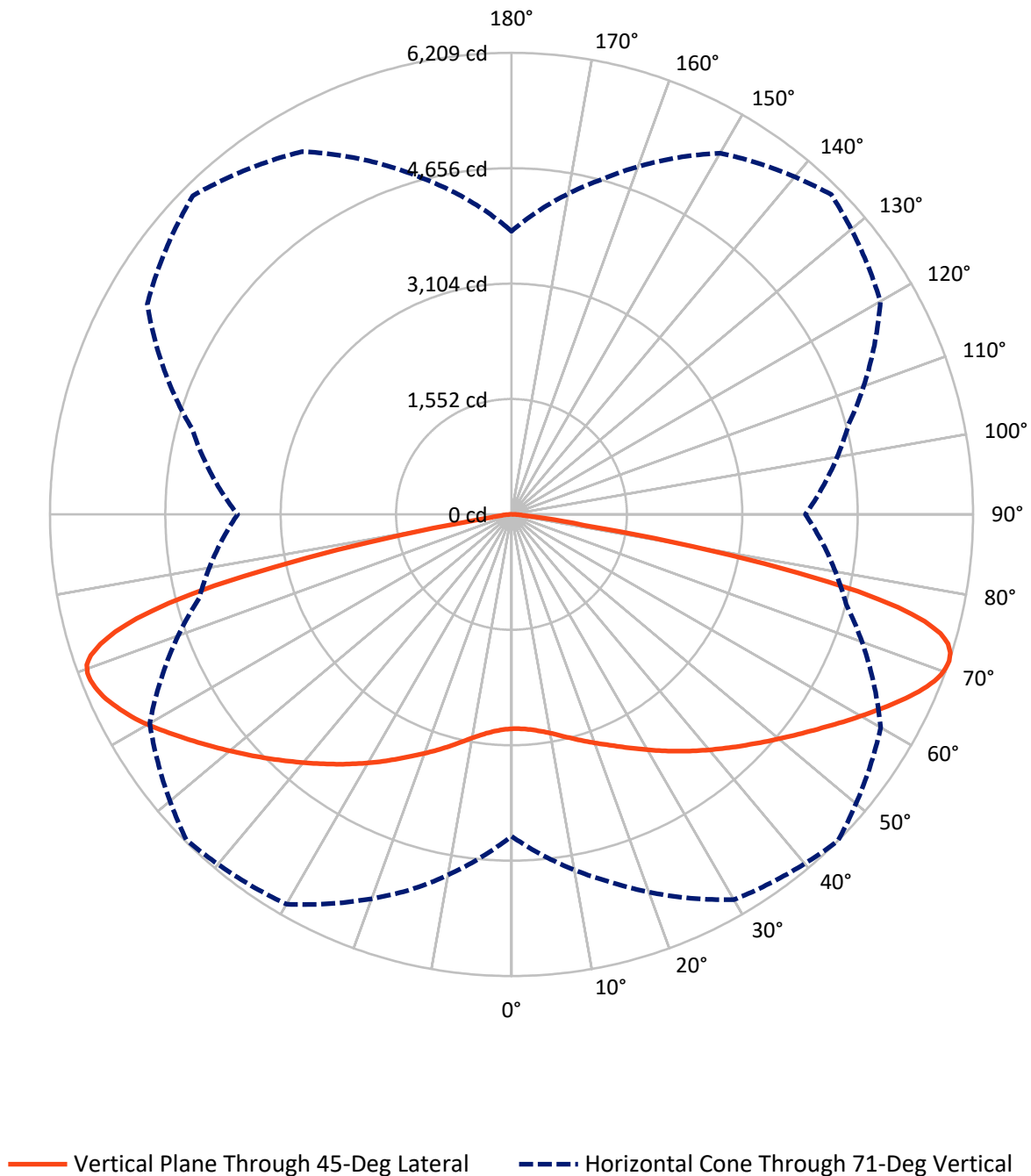


Based on 3 foot mounting height. Maximum calculated value = 320.8 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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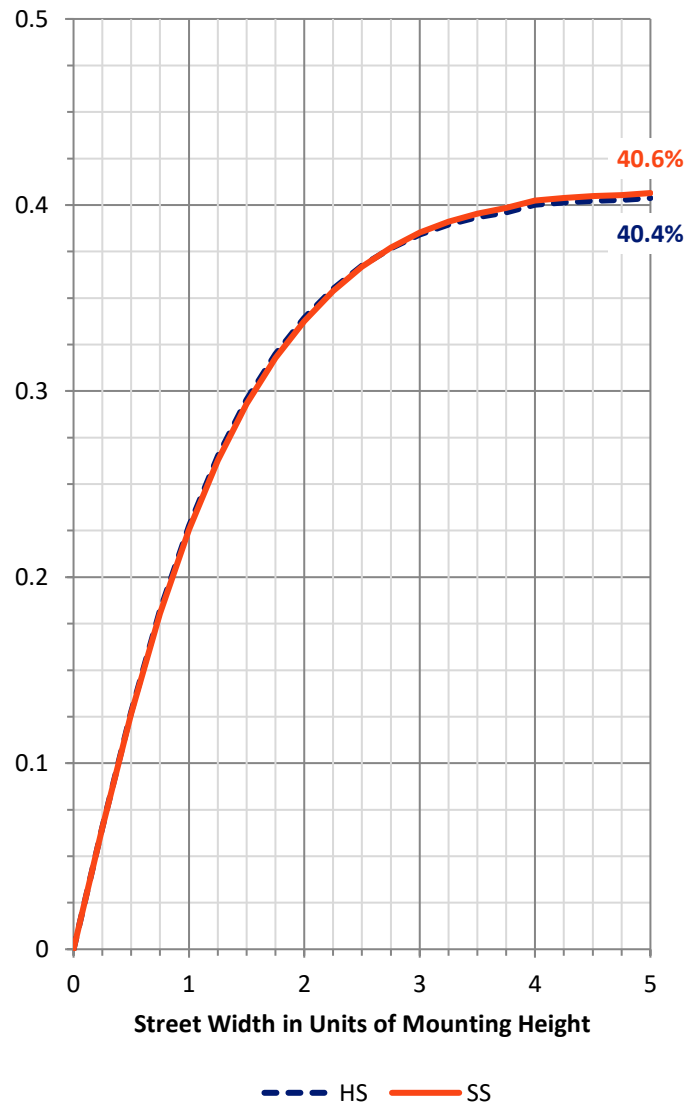
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11283.1	0.0	11283.1
	% Lamp	40.2	0.0	40.2
Street Side	Lumens	11391.2	0.0	11391.2
	% Lamp	40.6	0.0	40.6
Total	Lumens	22674.2	0.0	22674.2
	% Lamp	80.8	0.0	80.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	281.5	1.2	1.0
10°-20°	900.9	4.0	3.2
20°-30°	1638.0	7.2	5.8
30°-40°	2508.8	11.1	8.9
40°-50°	3496.8	15.4	12.5
50°-60°	4576.7	20.2	16.3
60°-70°	5469.6	24.1	19.5
70°-80°	3623.8	16.0	12.9
80°-90°	178.1	0.8	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°	22674.2	100.0	80.8
0°-180°	22674.2	100.0	80.8

Coefficient of Utilization



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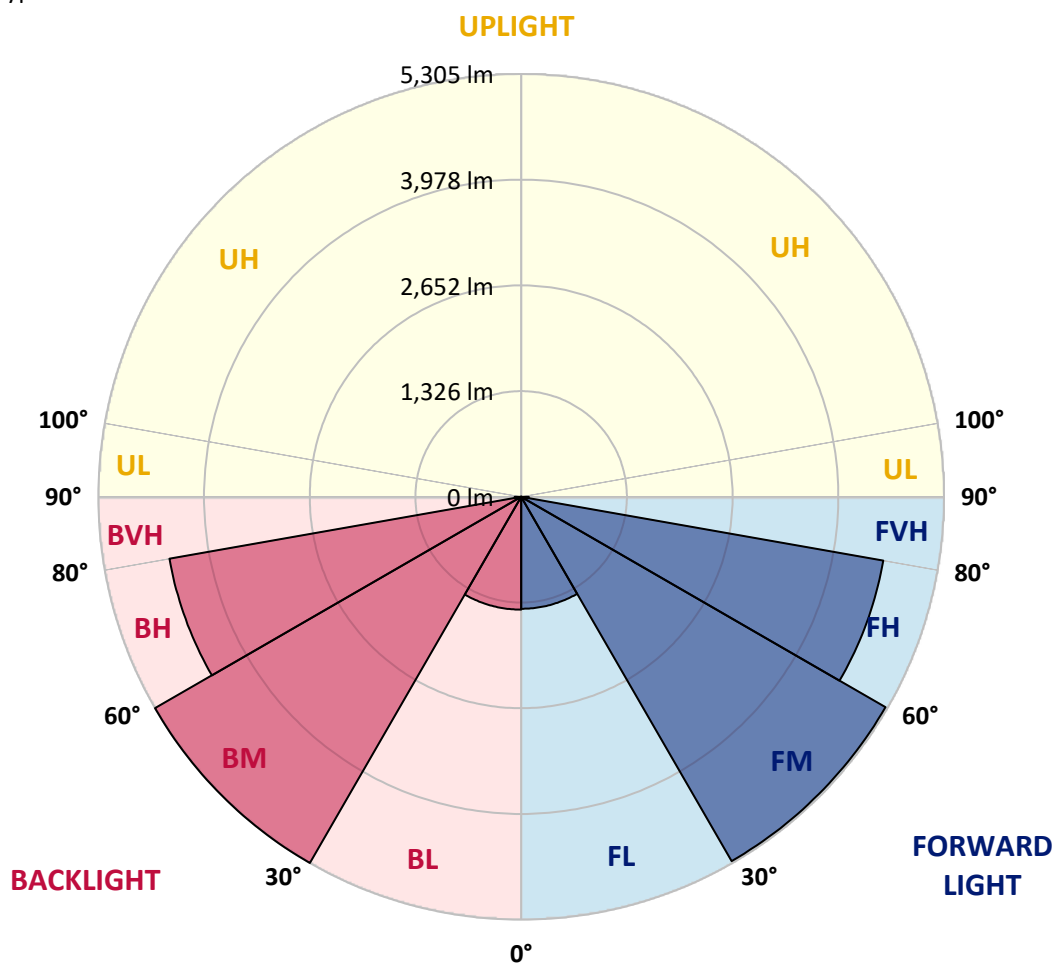
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1404.7	5.0			
FM	(30°-60°)	5277.7	18.8			
FH	(60°-80°)	4613.2	16.4			G2/5000
FVH	(80°-90°)	95.6	0.3			G1/100
BL	(0°-30°)	1415.6	5.0	B3/2500		
BM	(30°-60°)	5304.7	18.9	B4/8500		
BH	(60°-80°)	4480.2	16.0	B4/5000		G2/5000
BVH	(80°-90°)	82.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		5387.8	19.2			

BUG Rating: B4-U0-G2

Type V Short



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CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2
1°	2883.6	2883.0	2883.6	2883.0	2883.1	2882.8	2880.7	2880.9	2880.9	2882.0	2882.5
2°	2888.1	2887.0	2886.7	2886.0	2884.9	2883.8	2882.0	2882.0	2882.5	2884.0	2885.5
3°	2895.7	2893.8	2892.7	2890.8	2890.2	2888.7	2886.8	2886.6	2887.0	2888.8	2891.2
4°	2906.4	2904.1	2901.9	2900.1	2898.2	2896.3	2894.2	2894.0	2894.7	2897.1	2900.1
5°	2918.7	2915.8	2913.4	2910.2	2907.5	2905.8	2903.1	2904.2	2906.0	2908.8	2911.8
6°	2932.6	2929.1	2927.4	2923.8	2919.4	2916.8	2914.1	2915.0	2917.9	2922.8	2926.7
7°	2947.9	2944.3	2943.3	2939.3	2935.0	2930.9	2927.7	2929.1	2931.7	2939.0	2944.4
8°	2965.7	2961.8	2960.0	2956.7	2951.9	2947.5	2945.2	2946.8	2950.0	2956.6	2964.4
9°	2985.1	2981.5	2978.9	2975.7	2971.6	2966.1	2962.8	2965.3	2971.0	2977.9	2985.7
10°	3006.2	3002.7	3000.5	2997.0	2993.4	2987.1	2984.2	2986.7	2993.7	3002.0	3008.8
11°	3029.5	3025.5	3024.5	3021.3	3016.5	3010.3	3006.5	3010.6	3018.3	3028.8	3034.7
12°	3053.2	3047.9	3048.6	3046.8	3041.5	3035.1	3030.5	3035.7	3044.7	3056.4	3063.3
13°	3076.2	3071.2	3074.3	3074.6	3067.9	3061.7	3055.2	3061.7	3073.4	3085.5	3093.8
14°	3101.6	3095.9	3100.0	3102.5	3096.1	3088.6	3081.1	3089.3	3101.7	3116.8	3124.6
15°	3126.6	3121.3	3126.5	3132.0	3125.2	3116.3	3108.9	3116.7	3132.2	3148.7	3155.4
16°	3153.8	3149.7	3154.1	3161.2	3155.7	3145.9	3138.7	3146.2	3163.6	3181.6	3188.2
17°	3183.1	3179.2	3184.3	3191.7	3187.8	3176.2	3168.5	3176.5	3197.2	3213.4	3220.8
18°	3213.5	3208.2	3214.7	3222.2	3219.5	3207.7	3200.1	3208.8	3230.2	3246.4	3252.3
19°	3244.7	3239.0	3246.5	3254.0	3252.6	3240.5	3232.8	3242.8	3264.5	3280.2	3284.0
20°	3278.7	3271.9	3278.8	3286.2	3286.4	3275.3	3267.6	3278.5	3299.7	3313.8	3315.7
21°	3313.3	3306.4	3311.2	3319.5	3321.3	3310.4	3302.6	3315.4	3335.4	3346.4	3348.8
22°	3349.9	3342.4	3345.8	3353.2	3358.6	3347.3	3340.4	3353.7	3373.5	3382.2	3383.7
23°	3388.6	3380.7	3381.4	3389.2	3396.3	3386.0	3379.0	3394.1	3411.8	3418.1	3420.6
24°	3429.3	3420.4	3418.3	3426.1	3434.7	3425.2	3419.7	3435.2	3451.9	3455.6	3458.6
25°	3471.8	3461.4	3456.9	3465.2	3475.3	3466.3	3462.5	3478.1	3491.5	3494.5	3496.2
26°	3516.1	3503.7	3497.2	3504.9	3515.9	3506.7	3506.0	3521.4	3532.3	3534.1	3534.7
27°	3561.6	3546.9	3537.6	3546.3	3556.2	3548.1	3550.1	3565.4	3573.7	3575.5	3574.6
28°	3609.3	3590.6	3579.2	3588.3	3597.5	3590.5	3596.0	3608.7	3616.7	3618.2	3614.9
29°	3658.0	3634.8	3622.5	3632.4	3638.9	3633.3	3644.1	3652.9	3659.6	3662.6	3657.1
30°	3707.5	3679.0	3666.8	3677.0	3681.2	3677.5	3693.3	3698.2	3703.5	3707.3	3699.5
31°	3758.0	3724.4	3712.7	3723.1	3723.8	3720.5	3743.1	3743.0	3747.8	3753.5	3744.1
32°	3808.1	3769.9	3758.5	3769.7	3766.8	3766.7	3792.0	3789.3	3793.1	3800.2	3788.8
33°	3858.1	3816.6	3806.6	3815.6	3812.4	3811.4	3842.3	3834.2	3839.4	3847.0	3834.9
34°	3908.4	3863.1	3853.8	3862.6	3857.5	3855.1	3891.5	3878.9	3885.9	3893.1	3881.2
35°	3961.7	3909.2	3902.4	3910.3	3903.7	3899.1	3942.2	3923.3	3932.9	3941.2	3929.9
36°	4014.2	3956.8	3952.1	3958.9	3951.6	3944.8	3992.5	3968.9	3982.3	3989.9	3979.9
37°	4066.9	4005.0	4002.6	4008.7	3999.7	3988.8	4042.4	4015.2	4031.2	4039.4	4030.8
38°	4120.3	4054.9	4053.4	4058.2	4047.6	4035.0	4094.1	4060.6	4078.9	4088.9	4081.3
39°	4172.6	4104.9	4103.7	4108.5	4095.8	4082.9	4146.5	4107.5	4128.4	4138.1	4130.9
40°	4224.5	4157.1	4154.0	4159.6	4144.8	4131.2	4198.5	4155.8	4178.4	4189.4	4182.6
41°	4275.5	4210.2	4205.9	4210.5	4195.3	4181.2	4250.5	4206.3	4227.6	4240.7	4232.0
42°	4328.8	4264.6	4259.2	4263.7	4246.3	4232.1	4300.4	4257.3	4278.6	4294.0	4286.2
43°	4380.5	4321.2	4313.2	4317.7	4299.1	4285.1	4348.9	4310.5	4330.0	4348.1	4339.8
44°	4431.1	4379.4	4367.7	4372.3	4351.9	4339.7	4395.6	4365.0	4381.4	4401.3	4394.6

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CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4481.9	4437.4	4423.7	4426.4	4405.6	4396.5	4441.1	4420.3	4433.9	4456.3	4451.2
46°	4532.8	4498.8	4481.7	4482.8	4461.8	4455.2	4487.3	4478.1	4487.3	4512.2	4508.4
47°	4585.4	4563.7	4541.9	4541.7	4520.0	4515.9	4535.0	4536.0	4543.8	4570.7	4569.0
48°	4638.9	4627.7	4602.7	4601.9	4577.9	4577.5	4579.9	4596.3	4602.3	4628.1	4630.5
49°	4694.2	4695.1	4666.9	4663.9	4637.7	4639.7	4624.4	4655.7	4661.3	4687.7	4690.9
50°	4750.7	4760.7	4731.1	4726.3	4697.2	4702.5	4669.2	4715.0	4719.9	4750.7	4754.1
51°	4808.5	4828.7	4797.2	4790.1	4760.4	4764.3	4715.9	4773.1	4780.8	4814.3	4820.7
52°	4868.0	4898.1	4866.9	4858.4	4824.6	4825.3	4763.9	4833.2	4843.4	4881.3	4886.7
53°	4927.6	4966.2	4937.8	4925.8	4888.5	4884.2	4809.7	4892.1	4906.0	4946.9	4954.2
54°	4987.2	5034.0	5009.8	4997.9	4953.5	4941.5	4855.1	4948.4	4970.8	5014.2	5021.8
55°	5044.3	5096.2	5083.4	5069.0	5017.9	4995.4	4899.7	4999.5	5036.1	5086.6	5092.9
56°	5098.0	5157.9	5158.7	5143.9	5084.2	5046.2	4942.4	5050.8	5101.4	5159.5	5165.7
57°	5148.9	5215.8	5234.0	5222.4	5149.7	5093.3	4980.7	5096.9	5166.0	5234.0	5236.6
58°	5196.6	5270.5	5310.9	5302.1	5214.4	5135.1	5013.4	5138.0	5230.7	5311.1	5304.5
59°	5239.6	5321.3	5389.6	5382.7	5279.5	5169.9	5043.8	5176.1	5294.0	5389.6	5369.9
60°	5278.2	5367.3	5466.7	5466.7	5342.0	5199.4	5067.7	5208.4	5354.3	5469.1	5433.0
61°	5309.8	5408.9	5541.5	5550.2	5403.9	5225.7	5086.4	5236.4	5416.9	5547.3	5496.5
62°	5334.5	5443.6	5614.8	5636.2	5463.6	5244.6	5096.9	5257.0	5474.8	5624.5	5557.3
63°	5356.2	5475.1	5686.3	5722.8	5524.9	5254.5	5097.5	5272.9	5533.1	5695.8	5614.2
64°	5375.5	5500.5	5751.5	5808.4	5582.3	5256.6	5089.3	5282.5	5591.1	5764.8	5667.8
65°	5394.4	5522.2	5814.7	5892.8	5637.2	5255.6	5075.1	5284.3	5644.7	5835.3	5714.6
66°	5405.3	5542.8	5871.0	5973.6	5684.8	5245.1	5053.8	5276.6	5692.9	5906.0	5758.3
67°	5405.3	5557.1	5919.0	6048.6	5724.2	5226.2	5019.0	5260.0	5732.5	5971.3	5793.6
68°	5355.5	5554.2	5959.9	6114.6	5751.4	5195.2	4912.0	5225.9	5763.8	6023.1	5771.0
69°	5195.9	5512.2	5986.5	6164.0	5767.3	5110.1	4687.3	5140.9	5779.3	6064.2	5718.2
70°	4859.4	5390.9	5996.5	6195.5	5773.4	4933.9	4359.3	4968.3	5776.8	6087.7	5689.8
71°	4327.4	5117.4	5982.6	6208.5	5734.4	4660.4	3953.2	4697.2	5730.5	6083.9	5611.1
72°	3772.8	4670.0	5935.0	6190.0	5634.3	4311.1	3582.7	4341.7	5609.3	6021.1	5479.3
73°	3185.3	4087.1	5818.9	6125.4	5463.1	3936.0	3297.0	3958.0	5406.5	5885.2	5313.4
74°	2505.9	3451.1	5564.2	5987.6	5223.4	3594.8	2938.2	3605.2	5142.0	5678.3	5039.5
75°	1659.2	2758.3	5097.8	5742.5	4908.8	3215.3	2245.1	3232.5	4805.5	5402.6	4631.5
76°	857.9	1935.7	4468.5	5348.7	4536.6	2645.3	1551.9	2688.5	4434.6	4995.4	4074.6
77°	620.8	1041.3	3786.7	4772.6	4079.3	1780.3	859.8	1946.9	3992.8	4420.6	3384.4
78°	396.8	748.6	2959.7	3927.2	3443.6	922.7	370.2	1205.4	3380.6	3655.7	2557.2
79°	172.8	466.1	1920.0	2992.6	2555.0	667.1	291.6	469.2	2521.8	2766.4	1729.9
80°	143.6	183.7	979.6	1948.7	1547.1	418.3	213.0	362.3	1663.0	1871.5	905.6
81°	122.7	151.3	708.5	986.2	760.0	169.5	136.0	255.5	812.4	985.8	416.1
82°	104.6	127.8	448.3	709.1	560.3	144.3	116.2	148.8	361.7	398.7	317.4
83°	87.7	106.7	188.1	450.9	366.7	122.1	98.3	125.5	284.2	311.2	218.8
84°	72.5	87.5	147.4	192.7	173.1	101.7	81.5	104.1	206.7	223.7	120.9
85°	57.3	71.6	112.5	158.9	131.5	83.2	65.6	84.7	130.0	136.5	87.5
86°	42.0	55.7	84.4	127.8	96.6	66.8	50.8	67.2	93.3	107.0	58.6
87°	28.4	39.9	61.4	93.9	71.0	50.4	36.2	50.9	67.3	76.0	36.4
88°	16.3	25.8	38.5	75.3	45.7	34.1	25.3	36.2	46.6	47.3	25.8
89°	6.6	11.1	15.6	57.1	20.4	18.3	14.3	25.0	32.1	32.7	15.3

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1445024
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2	2882.2
1°	2883.1	2883.7	2884.2	2885.1	2885.6	2886.1	2886.4	2884.5	2884.1	2883.8	2884.3
2°	2886.6	2888.2	2888.7	2890.4	2891.2	2891.6	2892.0	2890.3	2890.4	2889.7	2889.9
3°	2892.7	2895.2	2896.9	2898.4	2900.0	2900.5	2901.5	2899.2	2899.3	2898.6	2899.1
4°	2902.7	2905.6	2907.6	2909.5	2911.3	2912.1	2913.1	2911.3	2910.7	2910.2	2909.7
5°	2915.0	2918.9	2921.1	2924.0	2925.3	2926.2	2926.6	2924.5	2924.3	2923.6	2923.1
6°	2930.8	2934.6	2938.1	2941.1	2942.5	2942.5	2942.6	2940.2	2940.3	2939.8	2939.3
7°	2949.3	2952.8	2957.2	2960.6	2961.9	2962.8	2963.6	2960.4	2959.9	2958.8	2958.3
8°	2969.3	2973.6	2978.3	2982.6	2984.7	2986.3	2985.5	2981.7	2980.9	2979.8	2978.3
9°	2991.1	2996.0	3001.7	3007.4	3010.5	3011.2	3009.3	3003.8	3004.0	3003.6	3001.9
10°	3015.3	3021.1	3027.6	3034.5	3038.3	3038.3	3035.1	3029.7	3029.3	3029.9	3026.7
11°	3041.9	3048.3	3055.9	3064.3	3068.6	3068.0	3063.9	3058.1	3058.0	3058.7	3054.5
12°	3069.7	3076.2	3085.6	3095.7	3100.8	3099.5	3094.7	3087.7	3088.6	3088.5	3083.6
13°	3098.1	3104.6	3115.1	3129.4	3135.6	3133.7	3126.5	3119.5	3120.6	3120.6	3114.7
14°	3128.1	3134.0	3146.4	3162.8	3171.4	3168.8	3160.8	3152.4	3154.1	3155.1	3147.2
15°	3158.2	3163.6	3178.1	3197.5	3208.6	3205.6	3195.7	3186.6	3189.0	3190.9	3180.4
16°	3189.2	3194.6	3209.9	3232.0	3246.5	3245.1	3232.2	3221.8	3224.7	3226.8	3214.2
17°	3220.3	3225.6	3242.6	3266.8	3284.7	3283.4	3270.7	3259.1	3261.4	3263.7	3249.4
18°	3252.3	3257.6	3276.0	3301.1	3322.5	3323.4	3309.5	3296.4	3300.2	3301.5	3285.0
19°	3284.7	3291.8	3309.1	3336.0	3361.3	3363.0	3348.7	3335.1	3339.2	3339.7	3319.6
20°	3317.9	3326.0	3344.2	3373.5	3399.2	3404.0	3389.5	3375.5	3379.9	3379.2	3355.9
21°	3352.9	3361.3	3380.4	3410.4	3438.0	3446.2	3432.7	3417.3	3420.7	3419.5	3392.0
22°	3389.3	3398.3	3418.1	3449.3	3479.2	3488.9	3476.6	3459.8	3464.0	3460.3	3430.9
23°	3425.4	3436.2	3458.1	3490.1	3520.4	3533.5	3519.6	3504.3	3508.8	3501.6	3470.8
24°	3464.6	3476.6	3498.8	3531.4	3563.3	3577.4	3564.4	3549.6	3553.4	3543.1	3509.8
25°	3503.1	3517.3	3540.2	3573.0	3606.9	3621.7	3611.1	3596.1	3598.2	3586.3	3550.2
26°	3544.0	3561.3	3583.1	3616.7	3651.3	3666.2	3657.3	3644.7	3642.9	3628.9	3593.2
27°	3584.9	3605.0	3626.0	3660.1	3695.3	3710.3	3703.3	3693.0	3688.2	3671.9	3635.6
28°	3626.4	3653.1	3670.0	3704.8	3742.7	3756.8	3750.6	3744.2	3734.4	3716.5	3680.7
29°	3669.4	3700.9	3715.2	3751.0	3788.9	3802.4	3798.5	3795.1	3780.7	3762.3	3727.8
30°	3713.8	3751.4	3761.3	3796.7	3836.4	3848.7	3845.9	3846.1	3826.5	3807.2	3775.5
31°	3759.4	3802.3	3807.9	3842.6	3881.5	3895.2	3892.2	3898.3	3872.9	3852.4	3823.4
32°	3804.9	3853.6	3854.9	3888.9	3929.6	3943.5	3940.3	3950.1	3917.8	3897.5	3871.5
33°	3851.9	3905.8	3901.8	3937.4	3977.5	3992.2	3987.9	4002.2	3964.5	3945.6	3921.7
34°	3898.7	3957.9	3948.1	3986.6	4027.0	4040.5	4036.2	4055.2	4010.8	3993.4	3971.9
35°	3944.5	4012.3	3996.6	4036.9	4076.6	4089.7	4083.6	4108.2	4058.6	4043.1	4024.5
36°	3991.8	4066.9	4045.5	4087.5	4125.6	4137.6	4131.7	4161.9	4106.1	4092.9	4076.3
37°	4038.3	4121.3	4095.0	4138.5	4175.4	4186.2	4181.6	4215.9	4155.3	4143.6	4128.1
38°	4087.2	4175.1	4145.9	4190.3	4226.5	4236.4	4231.1	4269.5	4204.6	4194.9	4181.1
39°	4137.1	4229.6	4197.1	4243.1	4279.0	4286.2	4282.7	4322.4	4254.5	4247.1	4233.2
40°	4189.3	4280.5	4250.9	4297.0	4331.2	4338.0	4334.2	4373.2	4305.6	4300.3	4286.7
41°	4243.7	4331.8	4305.1	4351.2	4385.5	4389.2	4385.8	4422.2	4358.2	4354.0	4340.0
42°	4297.2	4381.8	4361.8	4404.8	4439.0	4442.4	4438.9	4471.0	4413.3	4408.9	4395.7
43°	4352.9	4431.0	4418.8	4459.3	4495.0	4498.3	4494.9	4520.4	4470.1	4463.3	4449.6
44°	4410.4	4480.4	4477.3	4515.7	4551.7	4554.1	4551.4	4571.6	4528.5	4518.1	4506.1

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4468.9	4530.7	4536.6	4574.5	4610.2	4610.9	4611.2	4621.1	4588.0	4574.9	4562.9
46°	4529.7	4579.8	4598.6	4632.1	4669.2	4667.5	4670.8	4666.0	4650.3	4632.8	4621.2
47°	4593.5	4627.8	4661.5	4690.3	4728.9	4724.4	4730.2	4710.8	4710.0	4691.1	4682.1
48°	4658.2	4678.2	4726.4	4750.7	4789.3	4782.8	4788.7	4756.5	4770.3	4749.8	4744.0
49°	4723.2	4732.3	4793.3	4811.3	4851.9	4841.7	4846.7	4803.3	4829.5	4809.3	4806.4
50°	4791.5	4785.5	4861.1	4875.1	4914.3	4901.5	4903.4	4850.7	4888.1	4871.1	4870.1
51°	4863.2	4840.4	4928.8	4939.2	4978.7	4960.3	4959.9	4893.5	4944.8	4932.7	4935.4
52°	4931.7	4892.2	4994.9	5003.3	5044.3	5019.3	5013.7	4937.1	5000.0	4994.1	5002.2
53°	4993.2	4935.4	5056.1	5070.1	5111.6	5078.4	5063.7	4977.6	5049.5	5053.9	5069.5
54°	5046.5	4967.3	5111.7	5137.8	5179.9	5139.3	5110.1	5013.8	5096.6	5117.4	5140.2
55°	5095.0	5000.2	5159.7	5206.0	5249.7	5198.1	5153.5	5048.3	5139.5	5178.1	5213.7
56°	5144.4	5037.4	5206.7	5277.4	5320.6	5255.3	5192.3	5079.5	5178.3	5238.0	5289.3
57°	5191.2	5076.2	5252.9	5347.0	5391.7	5313.0	5226.4	5105.4	5211.1	5295.8	5362.3
58°	5235.2	5103.5	5297.5	5418.4	5464.0	5369.9	5255.4	5130.6	5238.5	5353.5	5438.9
59°	5269.1	5122.5	5330.4	5485.8	5539.5	5423.9	5279.9	5151.7	5261.1	5409.0	5515.0
60°	5296.9	5146.1	5358.1	5549.1	5613.8	5476.3	5302.1	5167.7	5280.3	5464.2	5592.7
61°	5323.8	5169.5	5384.8	5613.6	5688.8	5528.9	5319.8	5174.2	5298.7	5517.6	5670.9
62°	5349.3	5188.5	5409.5	5674.8	5757.3	5582.9	5331.6	5175.9	5309.3	5568.7	5750.3
63°	5372.4	5204.0	5432.7	5731.0	5819.4	5631.6	5336.6	5174.3	5311.9	5616.1	5828.8
64°	5393.1	5207.1	5452.3	5782.6	5878.1	5678.4	5339.1	5161.4	5308.8	5659.5	5907.6
65°	5390.1	5158.2	5444.9	5828.1	5935.3	5719.2	5331.2	5138.7	5296.9	5696.1	5981.7
66°	5323.6	5115.0	5371.8	5863.6	5989.7	5751.7	5317.4	5106.1	5278.5	5727.2	6052.2
67°	5281.1	5088.3	5326.2	5883.7	6032.2	5778.9	5290.0	5027.2	5246.1	5749.8	6112.4
68°	5255.5	5001.8	5287.1	5843.5	6065.5	5796.6	5222.9	4839.6	5169.5	5762.8	6162.6
69°	5152.2	4775.1	5173.1	5775.9	6087.5	5791.1	5076.8	4522.1	5005.2	5754.5	6197.4
70°	4958.3	4378.8	4984.7	5731.3	6090.6	5752.8	4811.4	4102.9	4728.1	5718.1	6208.5
71°	4662.2	3809.2	4687.1	5633.8	6061.3	5656.9	4448.3	3684.1	4349.2	5618.7	6187.5
72°	4209.6	3293.1	4226.9	5493.1	5968.5	5478.4	4036.4	3334.1	3935.9	5453.6	6129.4
73°	3656.3	2765.4	3666.3	5300.8	5799.8	5209.1	3637.9	2994.1	3542.8	5201.5	6010.3
74°	3083.1	2072.7	3094.8	5004.8	5558.0	4880.6	3259.8	2530.2	3160.1	4876.7	5814.3
75°	2346.6	1380.1	2361.2	4557.3	5235.2	4481.8	2786.5	1804.5	2664.9	4476.5	5497.4
76°	1610.2	698.1	1627.6	3961.3	4759.7	4047.0	2047.4	1022.9	1929.3	4016.5	5041.8
77°	880.1	512.0	900.4	3270.0	4112.1	3522.3	1308.2	734.3	1078.7	3462.2	4387.0
78°	371.4	325.8	389.4	2448.2	3268.8	2790.2	579.5	455.8	781.7	2718.4	3510.8
79°	289.5	144.1	302.0	1626.5	2386.3	2026.4	268.8	177.2	484.9	1802.2	2521.0
80°	207.6	118.8	214.7	811.1	1503.8	1262.7	224.5	148.2	188.1	989.2	1526.3
81°	125.9	98.9	128.6	364.5	635.8	500.8	180.2	126.7	154.7	714.9	719.0
82°	102.8	81.2	104.9	282.5	273.9	264.7	136.2	107.6	131.3	457.2	464.5
83°	82.0	64.5	84.0	200.4	226.3	215.0	114.8	90.2	110.5	199.4	225.2
84°	63.3	49.9	64.6	118.9	178.6	165.2	95.5	74.9	91.2	154.1	181.7
85°	46.1	35.6	47.0	84.7	131.0	115.4	77.2	59.6	75.0	115.5	150.7
86°	32.6	24.5	33.1	56.0	102.0	82.9	60.5	44.3	58.7	84.3	120.8
87°	19.2	13.5	19.1	40.3	71.6	59.9	45.2	30.2	42.4	61.0	85.1
88°	5.8	2.7	5.2	24.7	48.9	41.2	31.2	17.7	28.4	37.8	68.4
89°	4.2	2.4	3.9	9.1	26.1	22.6	17.1	7.1	12.8	14.6	51.9

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1445024
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2882.2	2882.2	2882.2
1°	2884.4	2883.6	2883.6
2°	2889.6	2889.1	2888.1
3°	2898.1	2897.3	2895.7
4°	2909.4	2908.1	2906.4
5°	2922.4	2920.7	2918.7
6°	2937.5	2935.8	2932.6
7°	2954.4	2951.9	2947.9
8°	2973.7	2969.5	2965.7
9°	2995.7	2990.1	2985.1
10°	3019.7	3012.8	3006.2
11°	3045.5	3037.2	3029.5
12°	3073.1	3062.3	3053.2
13°	3102.5	3087.8	3076.2
14°	3131.5	3114.1	3101.6
15°	3160.7	3141.0	3126.6
16°	3191.9	3169.5	3153.8
17°	3223.0	3200.0	3183.1
18°	3255.7	3231.0	3213.5
19°	3289.3	3262.8	3244.7
20°	3322.1	3294.8	3278.7
21°	3357.1	3329.7	3313.3
22°	3393.7	3365.9	3349.9
23°	3431.9	3403.5	3388.6
24°	3471.1	3442.4	3429.3
25°	3510.3	3483.5	3471.8
26°	3552.8	3525.5	3516.1
27°	3596.6	3568.7	3561.6
28°	3640.5	3612.3	3609.3
29°	3687.1	3657.1	3658.0
30°	3734.8	3702.2	3707.5
31°	3782.5	3749.8	3758.0
32°	3830.4	3797.2	3808.1
33°	3878.9	3845.3	3858.1
34°	3927.7	3891.9	3908.4
35°	3978.2	3939.6	3961.7
36°	4030.9	3987.1	4014.2
37°	4081.8	4037.1	4066.9
38°	4134.9	4088.0	4120.3
39°	4186.7	4138.8	4172.6
40°	4241.3	4192.3	4224.5
41°	4295.3	4246.6	4275.5
42°	4351.0	4303.5	4328.8
43°	4407.1	4361.5	4380.5
44°	4463.6	4419.0	4431.1

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4521.5	4481.2	4481.9
46°	4580.7	4542.8	4532.8
47°	4641.0	4608.0	4585.4
48°	4703.7	4674.4	4638.9
49°	4767.8	4743.7	4694.2
50°	4833.8	4812.8	4750.7
51°	4901.3	4884.2	4808.5
52°	4970.8	4954.1	4868.0
53°	5043.0	5024.4	4927.6
54°	5113.5	5093.4	4987.2
55°	5187.4	5161.8	5044.3
56°	5263.3	5225.4	5098.0
57°	5337.8	5284.0	5148.9
58°	5415.0	5337.8	5196.6
59°	5489.8	5387.6	5239.6
60°	5564.7	5433.0	5278.2
61°	5639.6	5471.5	5309.8
62°	5712.5	5506.2	5334.5
63°	5782.7	5535.3	5356.2
64°	5852.8	5563.2	5375.5
65°	5917.3	5588.3	5394.4
66°	5977.4	5612.0	5405.3
67°	6026.1	5627.4	5405.3
68°	6063.4	5625.5	5355.5
69°	6081.4	5586.6	5195.9
70°	6081.0	5472.8	4859.4
71°	6052.8	5223.3	4327.4
72°	5982.2	4777.3	3772.8
73°	5834.0	4186.7	3185.3
74°	5540.9	3522.0	2505.9
75°	5056.8	2826.0	1659.2
76°	4434.5	2024.8	857.9
77°	3717.3	1122.5	620.8
78°	2829.0	809.4	396.8
79°	1787.9	498.4	172.8
80°	919.4	187.3	143.6
81°	659.7	157.6	122.7
82°	422.1	133.2	104.6
83°	184.5	110.7	87.7
84°	145.8	90.9	72.5
85°	110.4	74.2	57.3
86°	82.9	57.5	42.0
87°	59.7	40.8	28.4
88°	36.6	25.9	16.3
89°	13.5	10.6	6.6

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

REPORT NUMBER: P1445024

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)