

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: P1445000

Luminaire Tested: XAS180-SFPM (4000K-144W-T5)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445000
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 (4000K-144W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 80% (144W)
OPTICS - TYPE 5
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 22938.7 lumens
Efficiency: 81.7%
Efficacy: 162.2 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): 141.4
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

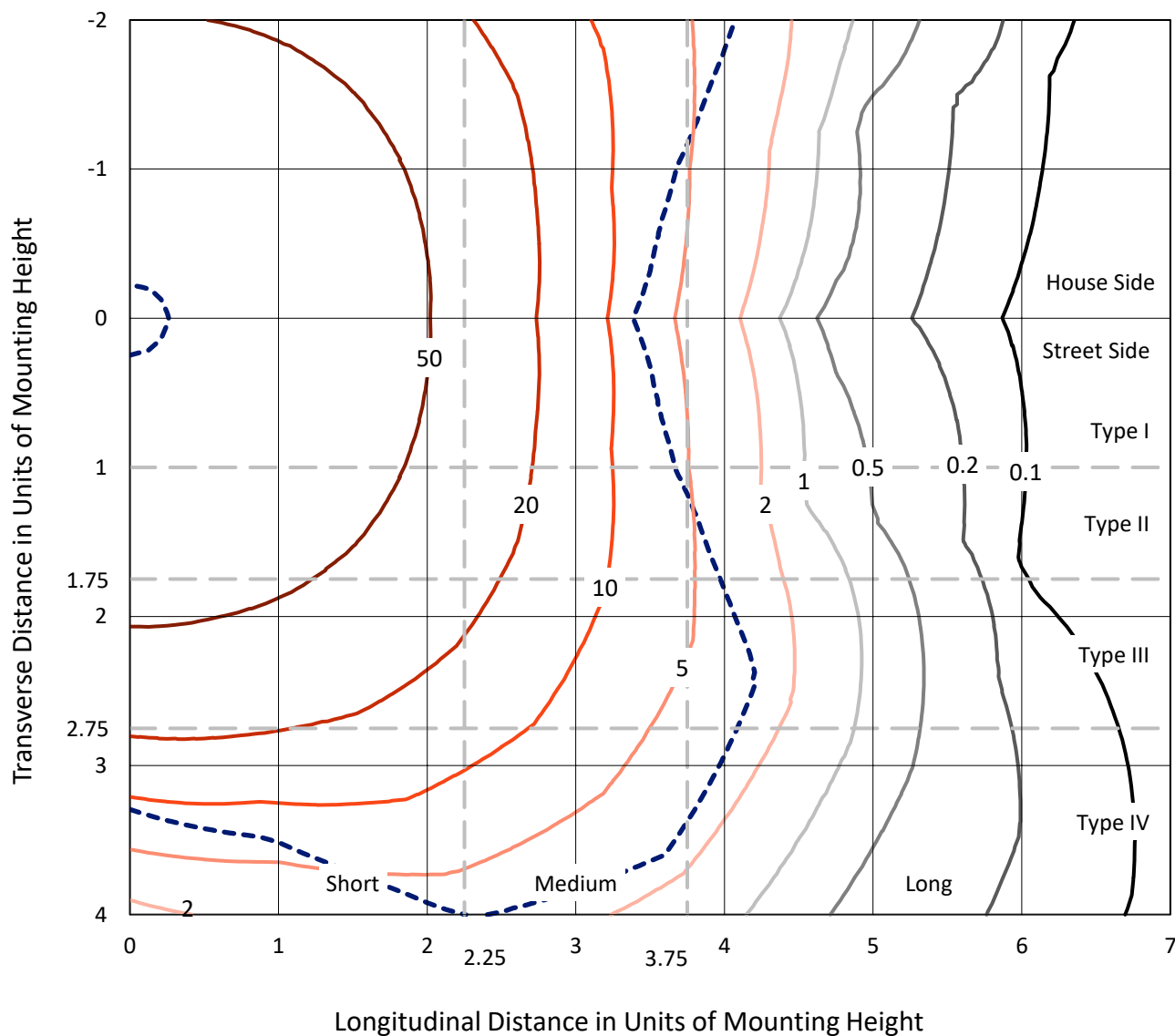
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

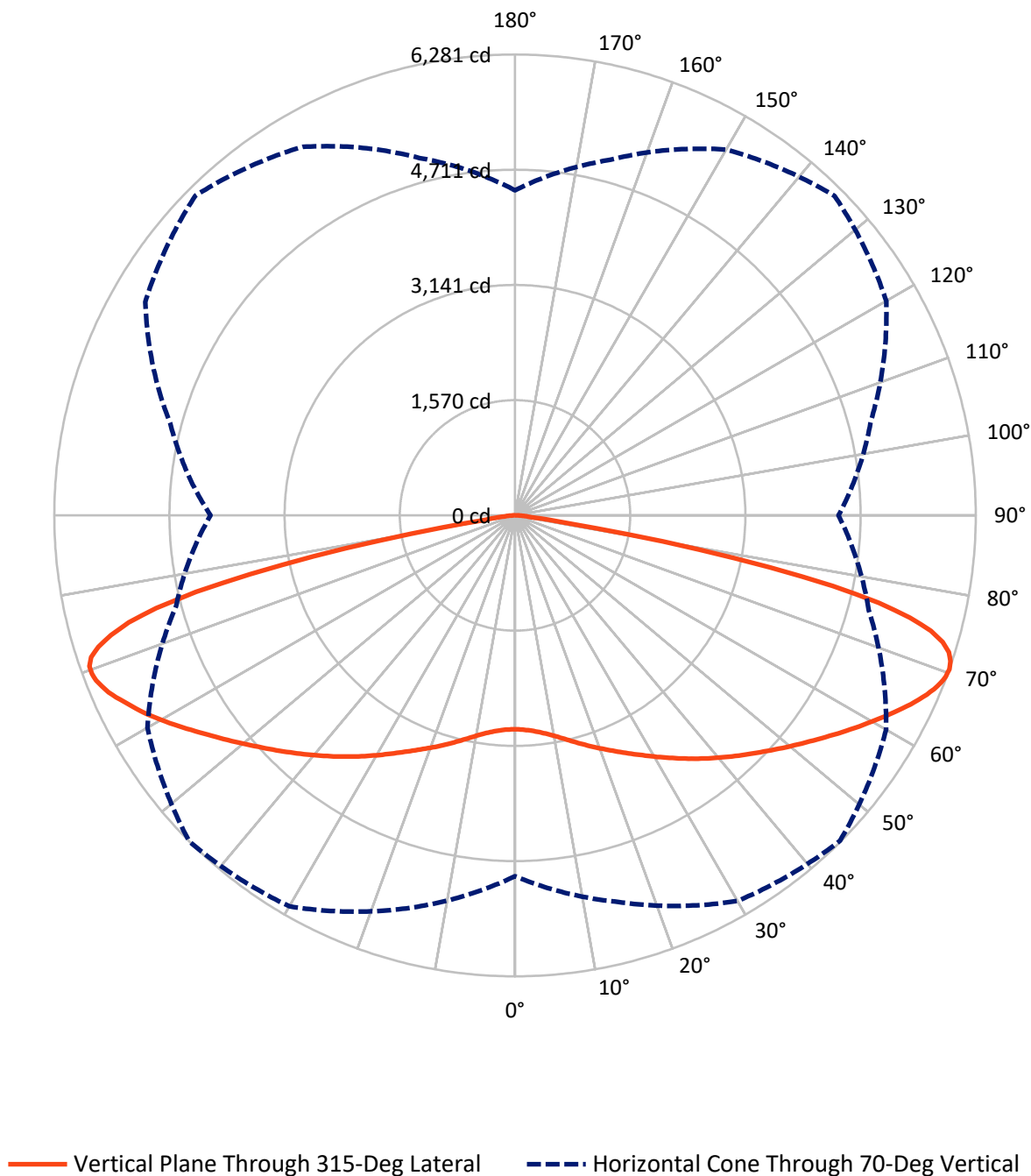


Based on 3 foot mounting height. Maximum calculated value = 324.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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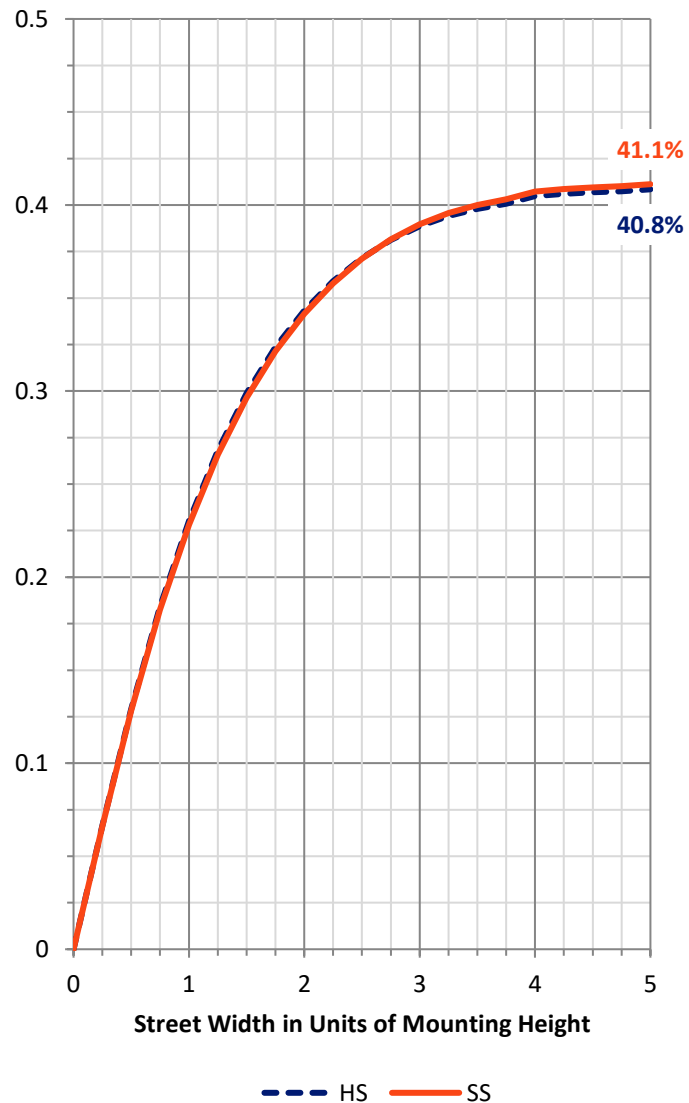
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11414.7	0.0	11414.7
	% Lamp	40.7	0.0	40.7
Street Side	Lumens	11524.0	0.0	11524.0
	% Lamp	41.1	0.0	41.1
Total	Lumens	22938.7	0.0	22938.7
	% Lamp	81.7	0.0	81.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	284.8	1.2	1.0
10°-20°	911.4	4.0	3.2
20°-30°	1657.1	7.2	5.9
30°-40°	2538.1	11.1	9.0
40°-50°	3537.6	15.4	12.6
50°-60°	4630.1	20.2	16.5
60°-70°	5533.4	24.1	19.7
70°-80°	3666.1	16.0	13.1
80°-90°	180.2	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°	22938.7	100.0	81.7
0°-180°	22938.7	100.0	81.7

Coefficient of Utilization



REPORT NUMBER: P1445000

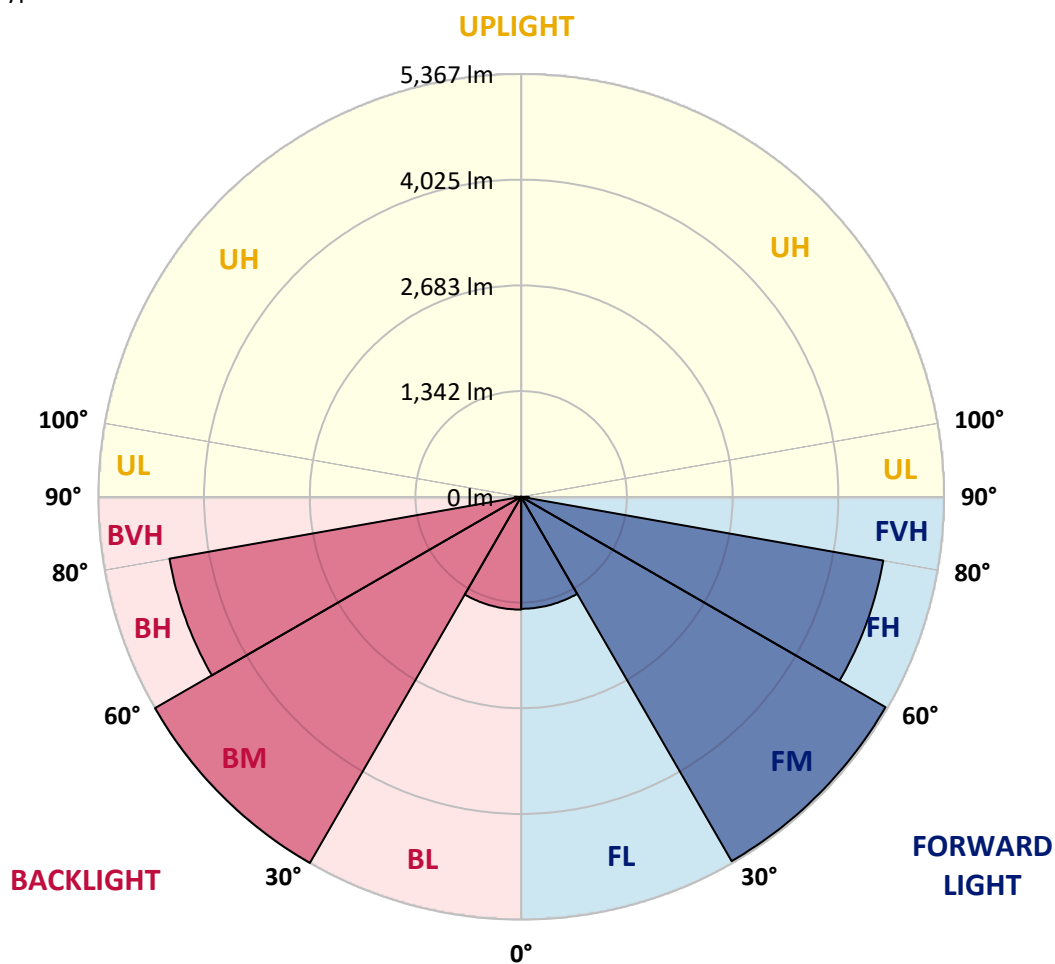
CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1421.1	5.1			
FM	(30°-60°)	5339.2	19.0			
FH	(60°-80°)	4667.1	16.6			G2/5000
FVH	(80°-90°)	96.7	0.3			G1/100
BL	(0°-30°)	1432.1	5.1	B3/2500		
BM	(30°-60°)	5366.5	19.1	B4/8500		
BH	(60°-80°)	4532.4	16.2	B4/5000		G2/5000
BVH	(80°-90°)	83.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		5123.3	18.3			

BUG Rating: B4-U0-G2

Type V Short



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CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8
1°	2917.2	2916.6	2917.2	2916.6	2916.7	2916.4	2914.3	2914.5	2914.5	2915.6	2916.1
2°	2921.8	2920.6	2920.4	2919.7	2918.5	2917.4	2915.7	2915.7	2916.1	2917.6	2919.2
3°	2929.5	2927.6	2926.4	2924.6	2923.9	2922.4	2920.5	2920.2	2920.7	2922.5	2924.9
4°	2940.3	2938.0	2935.8	2933.9	2932.0	2930.0	2927.9	2927.7	2928.5	2930.9	2933.9
5°	2952.8	2949.8	2947.4	2944.2	2941.4	2939.7	2937.0	2938.0	2939.9	2942.7	2945.8
6°	2966.8	2963.2	2961.6	2957.9	2953.5	2950.8	2948.1	2949.0	2951.9	2956.8	2960.9
7°	2982.3	2978.7	2977.6	2973.6	2969.2	2965.1	2961.8	2963.2	2965.9	2973.3	2978.8
8°	3000.3	2996.3	2994.5	2991.2	2986.4	2981.9	2979.6	2981.2	2984.4	2991.1	2998.9
9°	3019.9	3016.3	3013.7	3010.4	3006.2	3000.7	2997.4	2999.8	3005.6	3012.6	3020.5
10°	3041.3	3037.8	3035.5	3032.0	3028.3	3021.9	3019.0	3021.5	3028.6	3037.0	3043.9
11°	3064.8	3060.7	3059.8	3056.5	3051.7	3045.5	3041.6	3045.7	3053.5	3064.1	3070.1
12°	3088.9	3083.5	3084.2	3082.3	3077.0	3070.5	3065.8	3071.1	3080.2	3092.1	3099.0
13°	3112.1	3107.0	3110.2	3110.4	3103.7	3097.4	3090.8	3097.4	3109.3	3121.5	3129.9
14°	3137.8	3132.0	3136.2	3138.7	3132.2	3124.7	3117.1	3125.3	3137.9	3153.1	3161.0
15°	3163.1	3157.7	3163.0	3168.6	3161.6	3152.6	3145.2	3153.0	3168.7	3185.4	3192.2
16°	3190.6	3186.5	3190.9	3198.1	3192.5	3182.6	3175.3	3182.9	3200.5	3218.7	3225.4
17°	3220.2	3216.3	3221.4	3229.0	3225.0	3213.3	3205.5	3213.6	3234.4	3250.9	3258.4
18°	3251.0	3245.6	3252.2	3259.8	3257.0	3245.1	3237.4	3246.2	3267.9	3284.3	3290.3
19°	3282.6	3276.8	3284.4	3291.9	3290.5	3278.3	3270.5	3280.6	3302.5	3318.5	3322.3
20°	3316.9	3310.1	3317.0	3324.5	3324.7	3313.5	3305.7	3316.8	3338.2	3352.5	3354.4
21°	3351.9	3345.0	3349.9	3358.2	3360.0	3349.0	3341.1	3354.0	3374.3	3385.4	3387.9
22°	3388.9	3381.4	3384.8	3392.3	3397.8	3386.3	3379.4	3392.8	3412.8	3421.6	3423.2
23°	3428.1	3420.2	3420.8	3428.7	3435.9	3425.5	3418.4	3433.6	3451.6	3458.0	3460.5
24°	3469.3	3460.3	3458.2	3466.0	3474.8	3465.2	3459.6	3475.3	3492.2	3495.9	3499.0
25°	3512.3	3501.8	3497.2	3505.7	3515.9	3506.7	3502.9	3518.7	3532.2	3535.3	3537.0
26°	3557.1	3544.6	3538.0	3545.8	3556.9	3547.6	3546.9	3562.5	3573.5	3575.3	3576.0
27°	3603.2	3588.2	3578.8	3587.7	3597.7	3589.4	3591.5	3606.9	3615.4	3617.2	3616.3
28°	3651.4	3632.5	3620.9	3630.2	3639.5	3632.4	3637.9	3650.8	3658.9	3660.4	3657.1
29°	3700.6	3677.2	3664.7	3674.8	3681.3	3675.7	3686.6	3695.6	3702.3	3705.3	3699.7
30°	3750.7	3722.0	3709.5	3719.9	3724.2	3720.4	3736.4	3741.3	3746.7	3750.6	3742.6
31°	3801.8	3767.9	3756.0	3766.5	3767.2	3763.9	3786.8	3786.6	3791.5	3797.2	3787.8
32°	3852.5	3813.9	3802.3	3813.7	3810.7	3810.6	3836.2	3833.5	3837.4	3844.6	3833.0
33°	3903.1	3861.2	3851.0	3860.1	3856.8	3855.8	3887.2	3878.9	3884.2	3891.9	3879.6
34°	3954.0	3908.2	3898.8	3907.7	3902.5	3900.1	3936.9	3924.2	3931.2	3938.5	3926.5
35°	4007.9	3954.8	3947.9	3955.9	3949.2	3944.5	3988.2	3969.1	3978.8	3987.1	3975.8
36°	4061.0	4003.0	3998.2	4005.1	3997.7	3990.8	4039.0	4015.2	4028.7	4036.4	4026.3
37°	4114.3	4051.7	4049.3	4055.5	4046.4	4035.4	4089.5	4062.0	4078.2	4086.5	4077.8
38°	4168.3	4102.2	4100.7	4105.6	4094.9	4082.1	4141.9	4107.9	4126.5	4136.6	4128.9
39°	4221.3	4152.8	4151.6	4156.4	4143.6	4130.5	4194.8	4155.4	4176.6	4186.3	4179.1
40°	4273.8	4205.6	4202.4	4208.1	4193.1	4179.4	4247.5	4204.2	4227.1	4238.2	4231.4
41°	4325.4	4259.3	4255.0	4259.6	4244.3	4230.0	4300.0	4255.4	4276.9	4290.1	4281.4
42°	4379.3	4314.3	4308.9	4313.4	4295.8	4281.5	4350.5	4307.0	4328.5	4344.1	4336.2
43°	4431.6	4371.6	4363.5	4368.0	4349.2	4335.1	4399.6	4360.8	4380.5	4398.8	4390.4
44°	4482.8	4430.5	4418.6	4423.3	4402.6	4390.3	4446.8	4415.9	4432.5	4452.6	4445.9

REPORT NUMBER: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4534.1	4489.2	4475.3	4478.0	4457.0	4447.8	4492.9	4471.9	4485.7	4508.2	4503.1
46°	4585.6	4551.2	4534.0	4535.0	4513.9	4507.2	4539.6	4530.3	4539.6	4564.9	4561.0
47°	4638.9	4616.9	4594.9	4594.7	4572.7	4568.6	4587.9	4588.9	4596.8	4624.0	4622.3
48°	4693.0	4681.7	4656.4	4655.5	4631.3	4630.9	4633.3	4649.9	4655.9	4682.1	4684.5
49°	4749.0	4749.9	4721.3	4718.3	4691.8	4693.8	4678.3	4710.0	4715.7	4742.4	4745.6
50°	4806.1	4816.2	4786.3	4781.4	4752.0	4757.4	4723.6	4770.0	4775.0	4806.1	4809.5
51°	4864.6	4885.0	4853.2	4846.0	4815.9	4819.8	4770.9	4828.8	4836.6	4870.4	4877.0
52°	4924.8	4955.2	4923.6	4915.1	4880.9	4881.5	4819.5	4889.6	4899.9	4938.3	4943.7
53°	4985.0	5024.1	4995.4	4983.2	4945.5	4941.1	4865.8	4949.1	4963.2	5004.6	5012.0
54°	5045.4	5092.8	5068.2	5056.2	5011.3	4999.2	4911.7	5006.1	5028.8	5072.7	5080.4
55°	5103.1	5155.6	5142.7	5128.1	5076.4	5053.7	4956.8	5057.8	5094.9	5146.0	5152.3
56°	5157.5	5218.1	5218.9	5203.9	5143.5	5105.1	5000.1	5109.7	5160.9	5219.7	5226.0
57°	5209.0	5276.6	5295.1	5283.3	5209.7	5152.7	5038.8	5156.4	5226.2	5295.1	5297.7
58°	5257.2	5331.9	5372.8	5363.9	5275.2	5195.0	5071.8	5198.0	5291.7	5373.1	5366.4
59°	5300.7	5383.4	5452.4	5445.5	5341.1	5230.2	5102.7	5236.5	5355.7	5452.5	5432.6
60°	5339.8	5429.9	5530.5	5530.5	5404.3	5260.0	5126.9	5269.2	5416.8	5532.9	5496.4
61°	5371.7	5472.0	5606.1	5614.9	5466.9	5286.7	5145.7	5297.5	5480.1	5612.0	5560.6
62°	5396.7	5507.1	5680.2	5701.9	5527.3	5305.8	5156.4	5318.3	5538.7	5690.1	5622.1
63°	5418.7	5538.9	5752.6	5789.5	5589.3	5315.8	5156.9	5334.4	5597.6	5762.2	5679.7
64°	5438.2	5564.7	5818.6	5876.2	5647.4	5317.9	5148.7	5344.1	5656.3	5832.0	5733.9
65°	5457.3	5586.6	5882.6	5961.5	5703.0	5316.9	5134.3	5345.9	5710.6	5903.4	5781.3
66°	5468.4	5607.4	5939.4	6043.3	5751.1	5306.3	5112.8	5338.2	5759.3	5974.9	5825.5
67°	5468.4	5622.0	5988.0	6119.1	5790.9	5287.1	5077.6	5321.4	5799.3	6041.0	5861.1
68°	5418.0	5619.0	6029.4	6185.9	5818.5	5255.8	4969.3	5286.9	5831.1	6093.4	5838.3
69°	5256.5	5576.5	6056.3	6235.9	5834.6	5169.7	4742.0	5200.8	5846.7	6134.9	5784.9
70°	4916.1	5453.8	6066.5	6267.7	5840.8	4991.5	4410.1	5026.2	5844.1	6158.7	5756.2
71°	4377.9	5177.0	6052.3	6280.9	5801.3	4714.8	3999.3	4752.0	5797.3	6154.8	5676.6
72°	3816.9	4724.5	6004.2	6262.2	5700.0	4361.4	3624.5	4392.3	5674.7	6091.3	5543.2
73°	3222.4	4134.7	5886.8	6196.9	5526.8	3981.9	3335.5	4004.2	5469.6	5953.8	5375.3
74°	2535.1	3491.4	5629.1	6057.4	5284.4	3636.8	2972.5	3647.2	5202.0	5744.6	5098.3
75°	1678.6	2790.4	5157.3	5809.5	4966.1	3252.8	2271.3	3270.2	4861.6	5465.6	4685.5
76°	867.9	1958.3	4520.6	5411.1	4589.5	2676.1	1570.0	2719.9	4486.3	5053.7	4122.2
77°	628.1	1053.5	3830.9	4828.2	4126.9	1801.0	869.8	1969.7	4039.4	4472.2	3423.9
78°	401.4	757.3	2994.2	3973.0	3483.8	933.5	374.5	1219.5	3420.0	3698.3	2587.0
79°	174.8	471.6	1942.4	3027.6	2584.8	674.9	295.0	474.6	2551.2	2798.7	1750.1
80°	145.2	185.8	991.0	1971.5	1565.1	423.2	215.5	366.6	1682.4	1893.3	916.2
81°	124.2	153.1	716.7	997.7	768.8	171.5	137.6	258.5	821.8	997.3	420.9
82°	105.8	129.3	453.5	717.4	566.8	146.0	117.5	150.5	365.9	403.3	321.1
83°	88.7	107.9	190.3	456.2	371.0	123.6	99.5	127.0	287.5	314.8	221.3
84°	73.3	88.5	149.1	194.9	175.2	102.8	82.4	105.3	209.2	226.3	122.3
85°	57.9	72.4	113.8	160.8	133.1	84.1	66.4	85.7	131.5	138.1	88.5
86°	42.5	56.4	85.4	129.3	97.7	67.5	51.4	68.0	94.4	108.2	59.3
87°	28.7	40.3	62.2	95.0	71.8	51.0	36.6	51.5	68.1	76.9	36.9
88°	16.5	26.1	39.0	76.1	46.2	34.5	25.6	36.6	47.1	47.9	26.1
89°	6.6	11.2	15.8	57.8	20.6	18.5	14.5	25.3	32.5	33.1	15.4

REPORT NUMBER: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000
CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8	2915.8
1°	2916.7	2917.3	2917.9	2918.8	2919.2	2919.7	2920.1	2918.2	2917.8	2917.4	2917.9
2°	2920.3	2921.9	2922.4	2924.1	2925.0	2925.3	2925.7	2924.0	2924.2	2923.4	2923.6
3°	2926.4	2929.0	2930.7	2932.2	2933.8	2934.4	2935.4	2933.0	2933.1	2932.4	2932.9
4°	2936.6	2939.5	2941.6	2943.4	2945.2	2946.1	2947.0	2945.2	2944.7	2944.1	2943.7
5°	2949.0	2952.9	2955.2	2958.1	2959.5	2960.4	2960.7	2958.6	2958.4	2957.7	2957.2
6°	2964.9	2968.9	2972.4	2975.4	2976.8	2976.8	2977.0	2974.5	2974.6	2974.1	2973.6
7°	2983.7	2987.3	2991.7	2995.1	2996.4	2997.3	2998.2	2994.9	2994.5	2993.3	2992.8
8°	3003.9	3008.3	3013.1	3017.4	3019.5	3021.2	3020.4	3016.5	3015.7	3014.6	3013.0
9°	3026.0	3030.9	3036.7	3042.4	3045.6	3046.3	3044.4	3038.8	3039.0	3038.6	3037.0
10°	3050.4	3056.3	3063.0	3069.9	3073.7	3073.7	3070.5	3065.0	3064.6	3065.2	3062.0
11°	3077.4	3083.9	3091.6	3100.1	3104.4	3103.7	3099.7	3093.8	3093.7	3094.3	3090.1
12°	3105.5	3112.1	3121.6	3131.8	3137.0	3135.6	3130.8	3123.7	3124.6	3124.5	3119.6
13°	3134.2	3140.8	3151.5	3165.9	3172.2	3170.3	3162.9	3155.9	3157.0	3157.0	3151.1
14°	3164.6	3170.6	3183.1	3199.7	3208.4	3205.8	3197.7	3189.2	3190.9	3191.9	3183.9
15°	3195.0	3200.5	3215.2	3234.8	3246.1	3243.0	3233.0	3223.7	3226.2	3228.2	3217.5
16°	3226.4	3231.8	3247.4	3269.7	3284.4	3283.0	3269.9	3259.4	3262.3	3264.4	3251.7
17°	3257.8	3263.2	3280.4	3304.9	3323.1	3321.7	3308.8	3297.1	3299.4	3301.7	3287.3
18°	3290.3	3295.6	3314.2	3339.6	3361.2	3362.1	3348.1	3334.8	3338.7	3340.1	3323.3
19°	3323.1	3330.2	3347.7	3375.0	3400.5	3402.2	3387.7	3374.0	3378.1	3378.6	3358.3
20°	3356.6	3364.8	3383.2	3412.9	3438.8	3443.7	3429.0	3414.8	3419.3	3418.6	3395.1
21°	3392.0	3400.5	3419.8	3450.2	3478.1	3486.4	3472.7	3457.2	3460.6	3459.4	3431.5
22°	3428.8	3437.9	3458.0	3489.6	3519.8	3529.6	3517.2	3500.1	3504.4	3500.7	3470.9
23°	3465.4	3476.3	3498.5	3530.8	3561.4	3574.7	3560.7	3545.1	3549.7	3542.4	3511.3
24°	3505.0	3517.2	3539.6	3572.6	3604.9	3619.1	3606.0	3591.0	3594.8	3584.5	3550.8
25°	3544.0	3558.3	3581.5	3614.6	3649.0	3663.9	3653.2	3638.0	3640.2	3628.1	3591.7
26°	3585.4	3602.9	3624.9	3658.8	3693.9	3709.0	3700.0	3687.2	3685.4	3671.3	3635.1
27°	3626.7	3647.1	3668.3	3702.7	3738.4	3753.6	3746.5	3736.1	3731.2	3714.8	3678.0
28°	3668.7	3695.7	3712.8	3748.0	3786.4	3800.6	3794.4	3787.8	3777.9	3759.8	3723.6
29°	3712.2	3744.1	3758.6	3794.8	3833.1	3846.8	3842.8	3839.3	3824.8	3806.2	3771.2
30°	3757.1	3795.2	3805.2	3841.0	3881.1	3893.6	3890.8	3890.9	3871.1	3851.6	3819.6
31°	3803.2	3846.6	3852.3	3887.4	3926.8	3940.6	3937.6	3943.8	3918.1	3897.4	3868.0
32°	3849.3	3898.6	3899.8	3934.2	3975.4	3989.5	3986.2	3996.2	3963.5	3943.0	3916.7
33°	3896.8	3951.4	3947.3	3983.3	4023.9	4038.8	4034.5	4048.9	4010.7	3991.6	3967.4
34°	3944.1	4004.0	3994.2	4033.1	4074.0	4087.7	4083.3	4102.5	4057.6	4039.9	4018.2
35°	3990.5	4059.1	4043.2	4084.0	4124.1	4137.4	4131.2	4156.1	4105.9	4090.3	4071.5
36°	4038.4	4114.3	4092.7	4135.2	4173.7	4185.8	4179.9	4210.4	4154.0	4140.6	4123.8
37°	4085.4	4169.3	4142.8	4186.7	4224.1	4235.0	4230.4	4265.0	4203.7	4192.0	4176.3
38°	4134.8	4223.8	4194.3	4239.1	4275.8	4285.8	4280.5	4319.3	4253.7	4243.8	4229.9
39°	4185.3	4278.9	4246.1	4292.6	4328.9	4336.2	4332.6	4372.8	4304.1	4296.6	4282.6
40°	4238.2	4330.4	4300.4	4347.1	4381.7	4388.6	4384.7	4424.2	4355.9	4350.5	4336.7
41°	4293.2	4382.3	4355.3	4402.0	4436.6	4440.4	4436.9	4473.8	4409.1	4404.8	4390.6
42°	4347.4	4432.9	4412.7	4456.2	4490.8	4494.2	4490.7	4523.2	4464.8	4460.3	4446.9
43°	4403.7	4482.7	4470.3	4511.3	4547.5	4550.8	4547.3	4573.1	4522.3	4515.3	4501.5
44°	4461.8	4532.7	4529.5	4568.4	4604.8	4607.2	4604.4	4625.0	4581.3	4570.8	4558.7

REPORT NUMBER: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4521.0	4583.6	4589.6	4627.8	4663.9	4664.7	4665.0	4675.0	4641.5	4628.3	4616.1
46°	4582.5	4633.2	4652.3	4686.1	4723.6	4722.0	4725.3	4720.4	4704.6	4686.8	4675.1
47°	4647.1	4681.8	4715.9	4745.0	4784.0	4779.5	4785.4	4765.7	4764.9	4745.9	4736.7
48°	4712.5	4732.8	4781.6	4806.1	4845.2	4838.6	4844.5	4812.0	4826.0	4805.2	4799.3
49°	4778.3	4787.5	4849.2	4867.4	4908.5	4898.1	4903.2	4859.3	4885.9	4865.4	4862.5
50°	4847.4	4841.3	4917.8	4932.0	4971.6	4958.6	4960.6	4907.3	4945.1	4927.9	4926.9
51°	4920.0	4896.8	4986.3	4996.8	5036.8	5018.1	5017.7	4950.6	5002.5	4990.3	4993.0
52°	4989.2	4949.3	5053.1	5061.7	5103.1	5077.9	5072.2	4994.7	5058.4	5052.4	5060.6
53°	5051.4	4993.0	5115.1	5129.2	5171.2	5137.6	5122.8	5035.7	5108.4	5112.9	5128.6
54°	5105.4	5025.2	5171.3	5197.7	5240.3	5199.3	5169.7	5072.2	5156.0	5177.1	5200.2
55°	5154.4	5058.5	5219.9	5266.7	5310.9	5258.7	5213.6	5107.2	5199.4	5238.5	5274.5
56°	5204.4	5096.1	5267.4	5339.0	5382.7	5316.6	5252.8	5138.7	5238.7	5299.1	5351.0
57°	5251.8	5135.4	5314.1	5409.4	5454.6	5375.0	5287.4	5164.9	5271.9	5357.5	5424.8
58°	5296.3	5163.0	5359.2	5481.6	5527.7	5432.6	5316.7	5190.4	5299.6	5416.0	5502.4
59°	5330.6	5182.3	5392.6	5549.8	5604.1	5487.2	5341.5	5211.8	5322.5	5472.0	5579.4
60°	5358.7	5206.1	5420.5	5613.8	5679.3	5540.2	5364.0	5228.0	5341.9	5528.0	5657.9
61°	5385.9	5229.8	5447.6	5679.1	5755.1	5593.4	5381.9	5234.5	5360.5	5582.0	5737.1
62°	5411.7	5249.0	5472.6	5741.0	5824.4	5648.0	5393.8	5236.3	5371.3	5633.7	5817.4
63°	5435.1	5264.7	5496.1	5797.9	5887.3	5697.2	5398.8	5234.7	5373.9	5681.6	5896.8
64°	5456.0	5267.9	5515.9	5850.0	5946.6	5744.7	5401.4	5221.6	5370.7	5725.5	5976.5
65°	5453.0	5218.3	5508.4	5896.0	6004.5	5785.9	5393.4	5198.6	5358.7	5762.6	6051.5
66°	5385.7	5174.7	5434.4	5932.0	6059.6	5818.8	5379.4	5165.7	5340.0	5794.0	6122.8
67°	5342.7	5147.7	5388.3	5952.3	6102.6	5846.3	5351.7	5085.8	5307.3	5816.9	6183.7
68°	5316.8	5060.1	5348.8	5911.7	6136.3	5864.2	5283.8	4896.1	5229.8	5830.0	6234.5
69°	5212.3	4830.8	5233.4	5843.2	6158.5	5858.7	5136.0	4574.8	5063.6	5821.6	6269.7
70°	5016.1	4429.9	5042.8	5798.1	6161.6	5819.9	4867.5	4150.8	4783.2	5784.8	6281.0
71°	4716.6	3853.6	4741.8	5699.5	6131.9	5722.9	4500.1	3727.0	4399.9	5684.2	6259.6
72°	4258.7	3331.5	4276.2	5557.2	6038.1	5542.3	4083.5	3373.0	3981.8	5517.2	6200.9
73°	3698.9	2797.7	3709.0	5362.6	5867.4	5269.9	3680.3	3029.0	3584.1	5262.2	6080.4
74°	3119.0	2096.9	3130.9	5063.2	5622.8	4937.5	3297.8	2559.7	3196.9	4933.6	5882.1
75°	2373.9	1396.2	2388.7	4610.5	5296.3	4534.1	2819.0	1825.5	2696.0	4528.7	5561.5
76°	1629.0	706.3	1646.6	4007.5	4815.3	4094.2	2071.3	1034.9	1951.8	4063.3	5100.6
77°	890.4	518.0	910.9	3308.1	4160.1	3563.4	1323.5	742.9	1091.3	3502.6	4438.2
78°	375.7	329.6	393.9	2476.8	3306.9	2822.7	586.2	461.1	790.8	2750.1	3551.8
79°	292.9	145.8	305.5	1645.5	2414.2	2050.1	271.9	179.3	490.6	1823.2	2550.4
80°	210.0	120.2	217.2	820.5	1521.4	1277.5	227.1	149.9	190.3	1000.8	1544.1
81°	127.4	100.1	130.1	368.8	643.2	506.7	182.3	128.1	156.5	723.3	727.4
82°	104.0	82.2	106.2	285.8	277.1	267.8	137.8	108.9	132.8	462.5	469.9
83°	82.9	65.2	85.0	202.7	228.9	217.5	116.2	91.3	111.8	201.7	227.8
84°	64.0	50.4	65.3	120.3	180.7	167.1	96.6	75.7	92.3	155.9	183.9
85°	46.6	36.0	47.6	85.7	132.5	116.8	78.1	60.3	75.8	116.8	152.5
86°	33.0	24.8	33.5	56.6	103.2	83.9	61.2	44.8	59.4	85.3	122.2
87°	19.4	13.7	19.4	40.8	72.4	60.6	45.7	30.5	42.9	61.7	86.1
88°	5.9	2.7	5.3	25.0	49.4	41.7	31.5	17.9	28.7	38.3	69.1
89°	4.3	2.5	3.9	9.2	26.5	22.8	17.3	7.2	13.0	14.8	52.5

REPORT NUMBER: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000
CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2915.8	2915.8	2915.8
1°	2918.0	2917.2	2917.2
2°	2923.3	2922.8	2921.8
3°	2931.9	2931.1	2929.5
4°	2943.4	2942.0	2940.3
5°	2956.4	2954.7	2952.8
6°	2971.8	2970.0	2966.8
7°	2988.8	2986.4	2982.3
8°	3008.3	3004.2	3000.3
9°	3030.7	3025.0	3019.9
10°	3054.9	3047.9	3041.3
11°	3081.0	3072.6	3064.8
12°	3109.0	3098.0	3088.9
13°	3138.7	3123.8	3112.1
14°	3168.0	3150.4	3137.8
15°	3197.6	3177.6	3163.1
16°	3229.1	3206.5	3190.6
17°	3260.6	3237.3	3220.2
18°	3293.7	3268.7	3251.0
19°	3327.7	3300.8	3282.6
20°	3360.8	3333.2	3316.9
21°	3396.2	3368.5	3351.9
22°	3433.2	3405.1	3388.9
23°	3471.9	3443.2	3428.1
24°	3511.5	3482.5	3469.3
25°	3551.3	3524.1	3512.3
26°	3594.3	3566.6	3557.1
27°	3638.6	3610.4	3603.2
28°	3683.0	3654.4	3651.4
29°	3730.1	3699.7	3700.6
30°	3778.4	3745.4	3750.7
31°	3826.6	3793.6	3801.8
32°	3875.1	3841.5	3852.5
33°	3924.2	3890.2	3903.1
34°	3973.5	3937.3	3954.0
35°	4024.6	3985.6	4007.9
36°	4077.9	4033.6	4061.0
37°	4129.4	4084.2	4114.3
38°	4183.1	4135.6	4168.3
39°	4235.5	4187.1	4221.3
40°	4290.8	4241.2	4273.8
41°	4345.4	4296.1	4325.4
42°	4401.7	4353.7	4379.3
43°	4458.5	4412.3	4431.6
44°	4515.7	4470.5	4482.8

REPORT NUMBER: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4574.2	4533.5	4534.1
46°	4634.1	4595.8	4585.6
47°	4695.2	4661.7	4638.9
48°	4758.5	4728.9	4693.0
49°	4823.4	4799.0	4749.0
50°	4890.2	4869.0	4806.1
51°	4958.5	4941.1	4864.6
52°	5028.8	5011.9	4924.8
53°	5101.8	5083.0	4985.0
54°	5173.1	5152.8	5045.4
55°	5247.9	5222.0	5103.1
56°	5324.7	5286.3	5157.5
57°	5400.0	5345.6	5209.0
58°	5478.2	5400.0	5257.2
59°	5553.9	5450.5	5300.7
60°	5629.6	5496.3	5339.8
61°	5705.3	5535.3	5371.7
62°	5779.2	5570.4	5396.7
63°	5850.2	5599.9	5418.7
64°	5921.1	5628.1	5438.2
65°	5986.3	5653.4	5457.3
66°	6047.1	5677.5	5468.4
67°	6096.4	5693.0	5468.4
68°	6134.1	5691.1	5418.0
69°	6152.4	5651.7	5256.5
70°	6151.9	5536.6	4916.1
71°	6123.4	5284.2	4377.9
72°	6052.0	4833.0	3816.9
73°	5902.1	4235.5	3222.4
74°	5605.5	3563.1	2535.1
75°	5115.7	2858.9	1678.6
76°	4486.2	2048.5	867.9
77°	3760.7	1135.6	628.1
78°	2862.0	818.9	401.4
79°	1808.8	504.2	174.8
80°	930.1	189.5	145.2
81°	667.4	159.4	124.2
82°	427.0	134.7	105.8
83°	186.6	112.0	88.7
84°	147.5	91.9	73.3
85°	111.7	75.0	57.9
86°	83.9	58.2	42.5
87°	60.4	41.3	28.7
88°	37.0	26.2	16.5
89°	13.7	10.7	6.6

REPORT NUMBER: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-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: P1445000

CATALOG NUMBER: XAS180-SFPM (4000K-144W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)