

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: P1445022

Luminaire Tested: XAS180-SFPM (5000K-144W-T4)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445022
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-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 80% (144W)
OPTICS - TYPE 4
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 23131.5 lumens
Efficiency: 80.8%
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 143.2
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

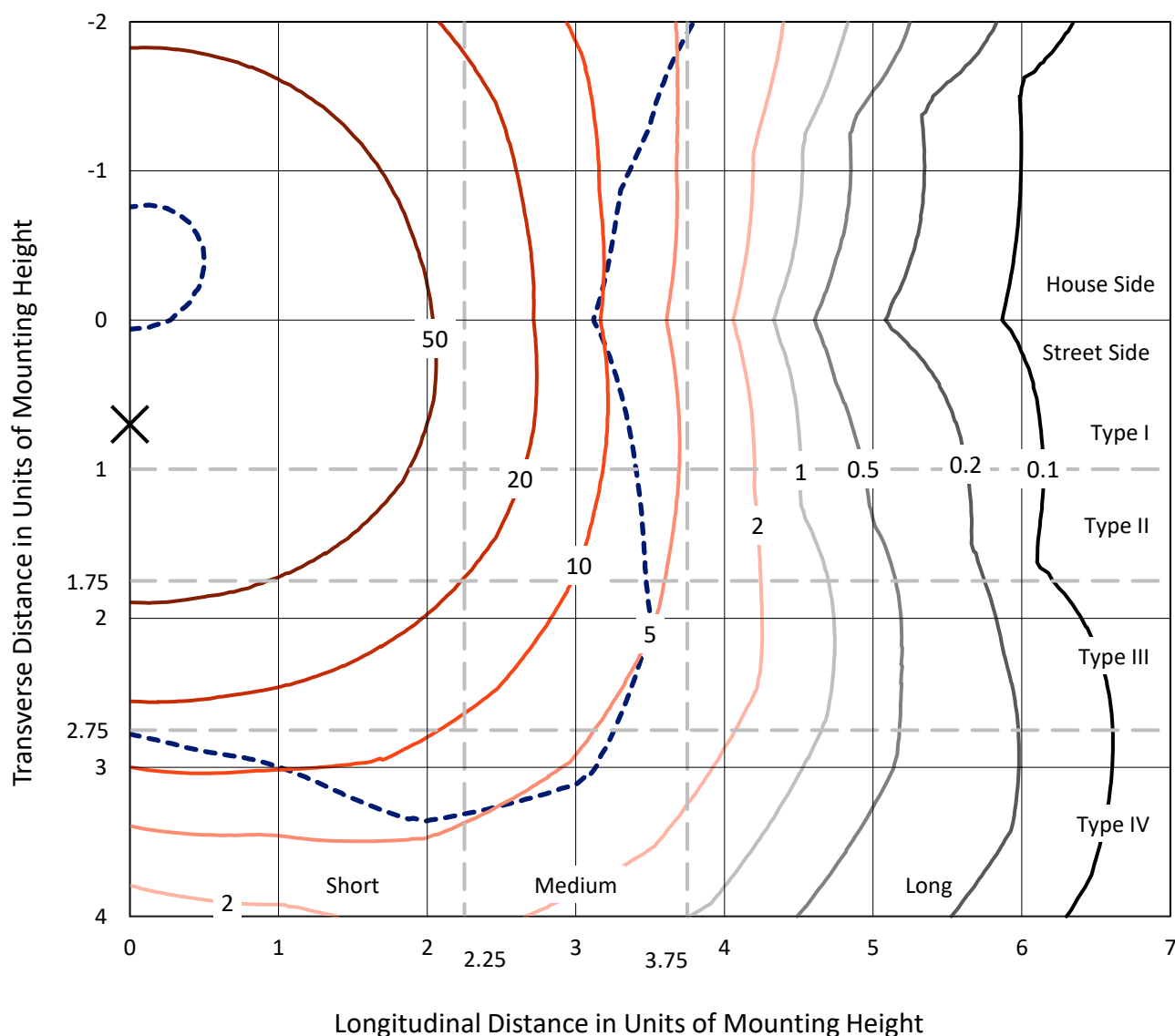
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

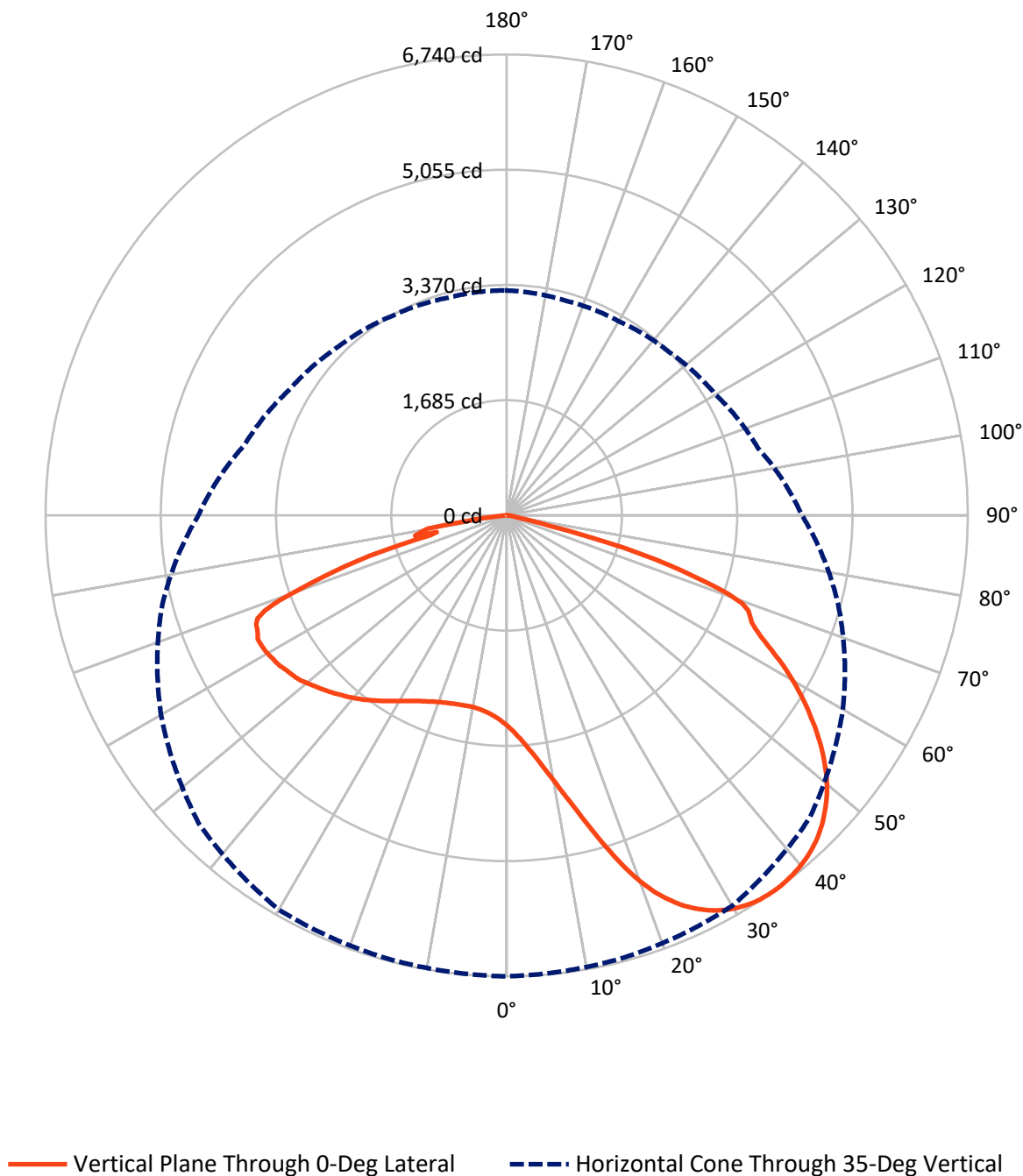


Based on 3 foot mounting height. Maximum calculated value = 533.9 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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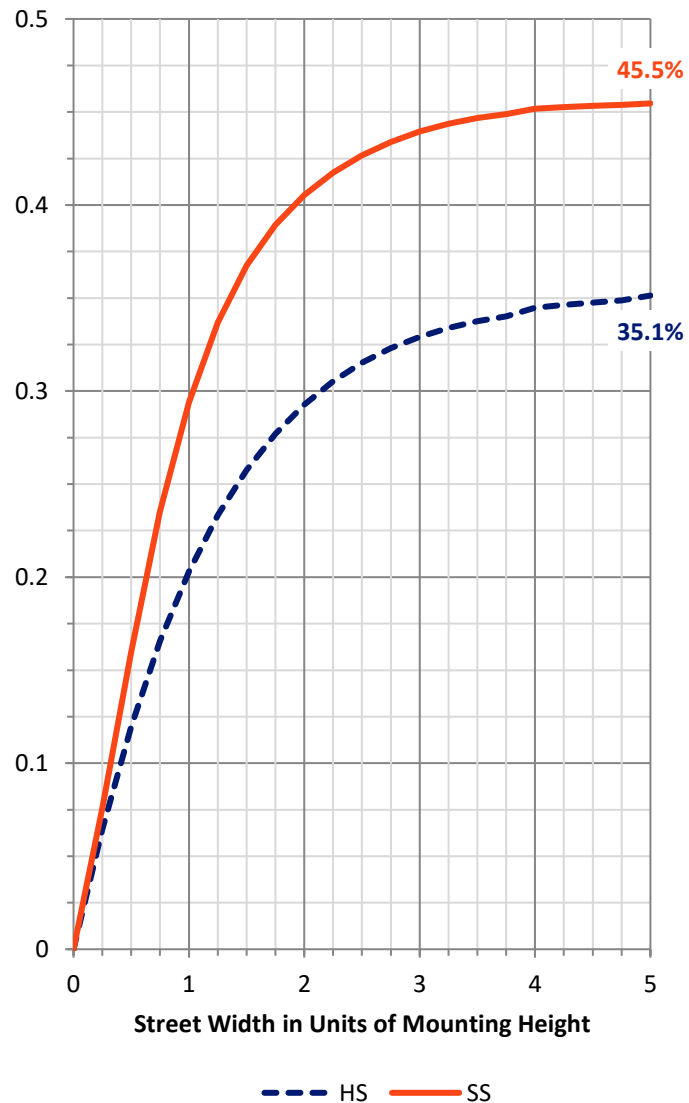
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10126.6	0.0	10126.6
	% Lamp	35.4	0.0	35.4
Street Side	Lumens	13004.8	0.0	13004.8
	% Lamp	45.4	0.0	45.4
Total	Lumens	23131.5	0.0	23131.5
	% Lamp	80.8	0.0	80.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	306.4	1.3	1.1
10°-20°	1040.0	4.5	3.6
20°-30°	1996.4	8.6	7.0
30°-40°	3007.3	13.0	10.5
40°-50°	3932.9	17.0	13.7
50°-60°	4625.1	20.0	16.2
60°-70°	4825.6	20.9	16.9
70°-80°	3089.4	13.4	10.8
80°-90°	308.3	1.3	1.1
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°	23131.5	100.0	80.8
0°-180°	23131.5	100.0	80.8

Coefficient of Utilization



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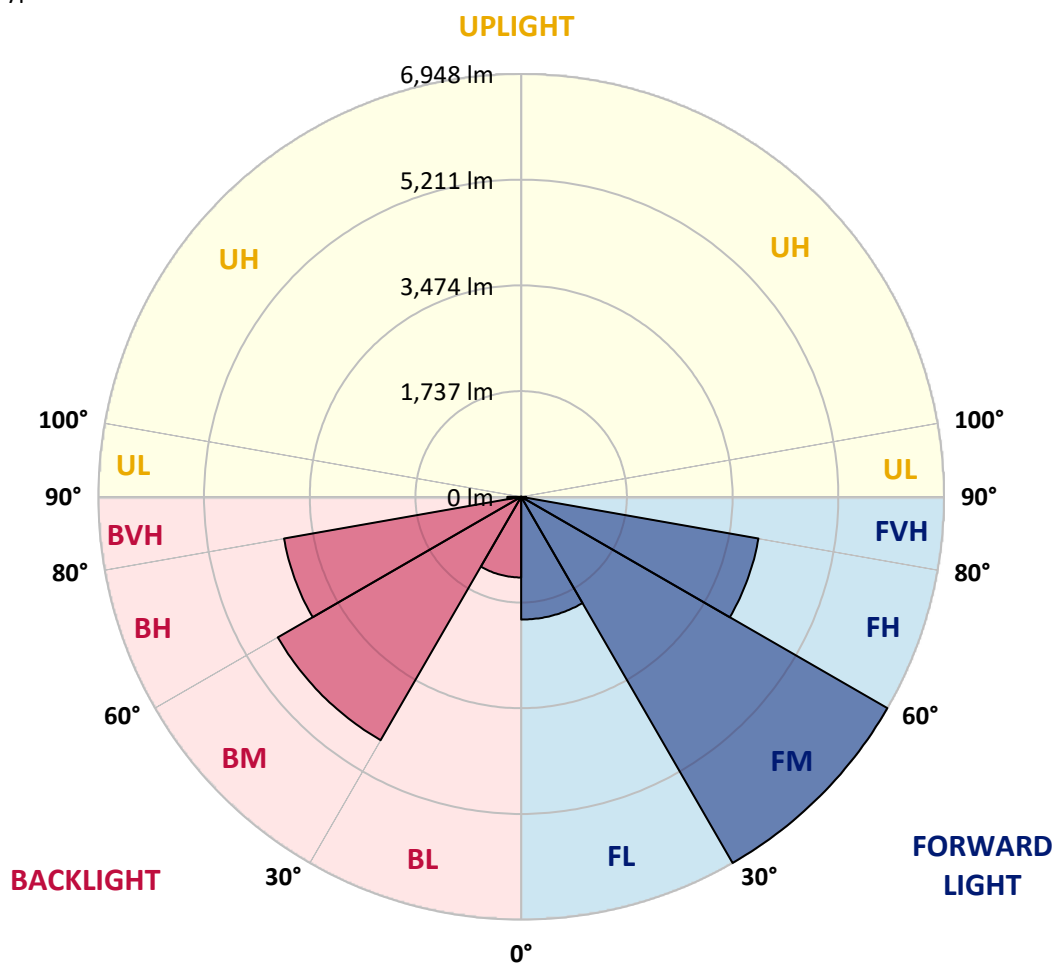
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2017.3	7.0			
FM	(30°-60°)	6947.7	24.3			
FH	(60°-80°)	3958.7	13.8			G2/5000
FVH	(80°-90°)	81.2	0.3			G1/100
BL	(0°-30°)	1325.6	4.6	B3/2500		
BM	(30°-60°)	4617.6	16.1	B3/5000		
BH	(60°-80°)	3956.4	13.8	B4/5000		G4/5000
BVH	(80°-90°)	227.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		5496.5	19.2			

BUG Rating: B4-U0-G4

Type IV Short



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CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
1°	3141.8	3140.9	3136.7	3129.2	3118.8	3107.7	3083.9	3071.3	3061.2	3052.6	3047.2
2°	3202.5	3199.7	3189.0	3170.8	3146.9	3121.8	3084.8	3061.0	3040.1	3022.9	3012.0
3°	3270.9	3265.4	3246.3	3217.1	3181.1	3141.1	3090.2	3054.1	3022.9	2998.3	2980.9
4°	3347.0	3337.7	3310.3	3269.2	3218.5	3163.1	3097.4	3050.1	3009.4	2977.9	2955.6
5°	3432.7	3419.8	3382.4	3326.2	3260.4	3189.1	3107.5	3048.0	2998.8	2960.7	2933.8
6°	3527.1	3509.0	3462.4	3390.3	3305.9	3216.9	3119.4	3048.9	2991.2	2947.3	2915.8
7°	3629.9	3607.5	3549.5	3461.8	3355.7	3248.4	3135.7	3052.9	2986.2	2936.9	2902.2
8°	3742.5	3714.2	3644.3	3536.9	3409.5	3284.3	3154.9	3060.4	2984.6	2928.3	2890.9
9°	3863.9	3832.9	3746.2	3618.4	3470.2	3321.8	3176.2	3069.0	2985.9	2923.3	2882.4
10°	3995.2	3955.1	3856.0	3707.2	3535.4	3363.0	3200.6	3081.3	2989.5	2922.3	2876.5
11°	4138.0	4092.7	3974.4	3803.0	3603.7	3407.6	3226.8	3096.2	2995.3	2923.6	2874.2
12°	4291.9	4236.1	4099.8	3901.8	3674.0	3456.3	3255.6	3112.2	3003.5	2926.6	2875.9
13°	4455.0	4393.1	4236.2	4008.0	3750.1	3507.7	3285.7	3129.8	3013.1	2932.4	2879.4
14°	4635.5	4562.9	4381.8	4121.4	3830.8	3559.3	3316.3	3147.5	3023.7	2939.7	2883.7
15°	4827.6	4745.1	4535.4	4240.7	3913.8	3612.9	3349.1	3166.6	3036.3	2948.5	2890.0
16°	5025.6	4930.5	4695.7	4368.8	4003.1	3670.2	3384.4	3188.4	3049.5	2958.5	2898.4
17°	5223.2	5118.3	4855.5	4500.2	4096.3	3729.5	3421.1	3210.2	3065.0	2969.0	2907.7
18°	5417.9	5301.8	5015.9	4632.5	4193.7	3790.1	3459.4	3235.1	3081.5	2982.1	2916.6
19°	5600.9	5478.0	5174.0	4760.8	4294.3	3853.2	3499.3	3261.0	3098.3	2995.8	2927.8
20°	5769.4	5644.3	5323.9	4888.8	4396.8	3919.3	3541.4	3288.5	3116.5	3010.3	2940.5
21°	5921.2	5798.6	5469.3	5013.0	4498.0	3987.9	3584.0	3317.2	3135.6	3024.3	2954.2
22°	6052.1	5930.5	5605.5	5134.0	4600.1	4058.3	3628.8	3347.0	3157.5	3040.7	2969.5
23°	6170.8	6057.5	5732.2	5249.9	4701.0	4132.0	3675.2	3377.6	3181.3	3058.3	2986.5
24°	6275.0	6167.1	5849.6	5358.7	4799.9	4207.6	3722.3	3409.8	3205.7	3078.1	3004.8
25°	6364.7	6264.9	5958.5	5465.3	4896.8	4284.3	3772.2	3443.1	3230.8	3099.5	3023.4
26°	6441.9	6351.5	6060.4	5564.9	4990.0	4360.3	3822.9	3477.6	3257.1	3121.4	3043.9
27°	6511.4	6425.1	6150.5	5660.6	5080.7	4437.8	3873.7	3512.5	3283.7	3144.7	3065.2
28°	6570.0	6487.8	6231.7	5752.4	5166.5	4514.6	3926.4	3546.4	3311.8	3170.1	3087.8
29°	6618.6	6542.6	6306.1	5839.5	5247.8	4591.2	3980.3	3582.1	3339.2	3197.5	3111.4
30°	6656.9	6586.4	6372.6	5923.6	5328.5	4665.3	4035.9	3618.4	3369.0	3224.6	3135.9
31°	6688.3	6621.5	6430.7	6001.0	5403.2	4738.9	4091.5	3653.8	3399.8	3252.3	3161.5
32°	6711.1	6650.2	6482.1	6073.2	5474.9	4811.2	4147.8	3691.1	3430.4	3281.0	3189.1
33°	6728.5	6671.0	6527.1	6141.9	5544.0	4881.5	4203.8	3729.7	3462.7	3309.5	3217.6
34°	6736.3	6683.3	6562.9	6203.4	5609.7	4950.1	4260.2	3766.4	3495.2	3339.1	3246.8
35°	6740.0	6689.2	6593.1	6260.3	5674.7	5016.4	4316.5	3803.9	3528.5	3369.7	3277.9
36°	6737.9	6690.9	6617.0	6312.6	5734.3	5080.6	4372.6	3841.4	3562.4	3400.8	3310.2
37°	6728.7	6685.7	6634.0	6360.2	5792.4	5142.5	4427.5	3880.2	3596.9	3433.2	3343.4
38°	6714.8	6676.1	6645.3	6403.0	5848.1	5203.2	4484.1	3919.8	3631.1	3467.2	3377.1
39°	6697.6	6664.3	6649.3	6439.1	5901.8	5262.8	4540.8	3959.3	3666.3	3501.1	3410.5
40°	6674.9	6647.4	6649.1	6472.0	5952.3	5320.5	4598.4	4001.4	3702.4	3536.0	3444.4
41°	6643.8	6624.3	6641.9	6499.6	5999.4	5375.9	4653.0	4045.5	3739.6	3571.3	3479.0
42°	6609.6	6595.7	6629.8	6523.4	6046.1	5430.4	4706.0	4089.9	3777.1	3608.2	3514.2
43°	6567.6	6564.4	6613.3	6541.0	6088.2	5484.6	4758.3	4133.0	3814.6	3646.7	3549.8
44°	6518.7	6528.2	6590.6	6551.1	6128.3	5536.3	4806.0	4178.1	3853.3	3685.0	3586.8

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CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	6461.9	6483.3	6559.9	6558.7	6167.4	5587.9	4855.2	4225.5	3894.5	3724.0	3624.0
46°	6395.1	6435.8	6528.4	6560.0	6204.4	5639.1	4902.9	4274.6	3937.0	3764.2	3662.4
47°	6323.4	6377.6	6489.8	6555.6	6240.3	5690.9	4949.2	4324.1	3980.2	3804.6	3702.3
48°	6246.6	6314.1	6445.1	6543.5	6272.2	5738.1	4992.6	4374.3	4025.1	3845.8	3742.6
49°	6159.3	6242.0	6396.2	6529.3	6300.2	5783.9	5034.2	4425.0	4071.4	3889.4	3784.0
50°	6065.0	6160.9	6337.2	6506.0	6325.0	5828.9	5074.4	4475.2	4117.9	3933.4	3827.5
51°	5958.7	6072.2	6272.5	6477.9	6346.3	5870.2	5114.8	4526.0	4166.8	3980.7	3870.9
52°	5845.9	5971.6	6198.4	6440.9	6363.4	5908.0	5152.7	4578.9	4216.9	4029.6	3918.2
53°	5725.8	5864.5	6119.7	6396.8	6375.9	5942.5	5188.4	4629.0	4267.7	4078.3	3963.1
54°	5601.4	5746.3	6031.8	6348.0	6380.6	5972.9	5222.5	4677.9	4321.6	4128.8	4011.4
55°	5470.3	5620.3	5934.6	6290.4	6378.0	5997.5	5252.2	4721.9	4375.9	4182.1	4061.0
56°	5330.7	5492.1	5828.7	6225.2	6369.6	6016.2	5279.2	4764.5	4430.5	4236.7	4111.7
57°	5195.1	5357.6	5721.1	6154.5	6350.2	6028.0	5303.2	4803.4	4485.3	4294.3	4163.9
58°	5051.5	5221.1	5605.6	6076.1	6320.9	6030.1	5319.3	4838.8	4540.4	4354.3	4213.0
59°	4909.7	5082.0	5489.9	5988.9	6282.0	6021.7	5328.9	4870.4	4595.6	4417.4	4261.5
60°	4757.3	4942.0	5368.0	5895.0	6232.5	6002.9	5333.6	4897.4	4650.9	4481.3	4309.4
61°	4599.3	4794.6	5246.2	5797.8	6171.5	5975.4	5328.2	4919.2	4706.3	4546.1	4357.8
62°	4433.9	4644.5	5125.4	5693.0	6102.6	5933.1	5313.2	4934.5	4759.7	4610.3	4405.1
63°	4271.1	4493.3	5006.0	5583.6	6025.9	5875.1	5285.5	4943.1	4812.1	4673.4	4451.0
64°	4117.8	4346.6	4887.5	5472.5	5935.4	5801.8	5244.5	4945.1	4863.5	4736.6	4494.8
65°	3994.0	4212.6	4772.1	5358.7	5837.8	5714.8	5193.2	4936.8	4912.7	4800.6	4536.2
66°	3903.0	4102.3	4661.2	5245.5	5727.5	5610.1	5123.2	4916.4	4955.4	4871.2	4573.9
67°	3851.5	4021.6	4560.8	5134.1	5602.1	5492.6	5033.2	4882.5	4991.4	4937.7	4608.8
68°	3797.9	3966.4	4473.2	5023.8	5463.2	5354.5	4875.4	4823.4	5018.1	5000.4	4607.4
69°	3675.4	3912.9	4402.1	4914.1	5308.4	5172.9	4622.4	4706.2	5028.1	5056.7	4588.6
70°	3433.8	3814.3	4345.9	4803.3	5146.0	4919.0	4271.9	4511.4	5021.6	5102.5	4591.8
71°	3067.6	3619.3	4295.1	4698.2	4952.4	4589.2	3844.9	4229.7	4974.1	5131.6	4565.2
72°	2672.2	3301.7	4234.6	4589.3	4715.4	4198.2	3441.1	3903.4	4858.5	5119.9	4511.3
73°	2263.9	2890.7	4138.5	4472.7	4439.9	3798.8	3101.6	3579.8	4675.9	5057.6	4437.6
74°	1793.0	2447.9	3951.6	4332.5	4130.8	3409.9	2696.8	3272.9	4441.2	4941.8	4292.4
75°	1202.5	1970.3	3622.2	4129.2	3779.8	2981.8	2050.9	2913.1	4177.6	4761.3	4074.8
76°	654.5	1398.2	3178.1	3833.0	3413.7	2397.2	1404.9	2255.2	3917.1	4468.7	3779.9
77°	428.0	780.4	2701.5	3409.5	3014.1	1624.7	764.3	1597.2	3622.6	4039.8	3430.8
78°	203.5	574.8	2128.7	2824.9	2507.9	890.6	371.0	943.1	3185.7	3456.4	3002.1
79°	162.1	372.8	1403.8	2140.4	1856.4	660.9	231.2	459.6	2414.6	2819.3	2520.0
80°	139.8	170.9	742.3	1412.0	1137.2	445.6	199.9	255.9	1643.6	2250.4	2071.7
81°	120.2	144.3	474.2	739.2	811.9	230.3	168.7	214.2	875.4	1779.3	1879.3
82°	102.6	122.8	211.4	476.0	499.9	194.4	137.6	172.5	420.3	1311.3	1589.1
83°	86.4	102.9	169.7	216.0	187.9	159.9	115.9	130.9	276.5	982.1	1298.8
84°	71.7	84.6	137.4	169.2	150.8	123.8	95.4	105.8	221.9	691.3	1005.5
85°	57.1	69.3	105.1	139.6	116.1	95.1	75.6	84.2	181.7	445.8	621.7
86°	42.4	54.1	78.8	111.9	85.4	74.8	57.1	65.5	141.6	320.3	439.2
87°	28.9	38.9	57.0	81.6	63.0	54.7	39.8	48.6	103.4	194.8	256.8
88°	16.7	25.4	35.3	65.5	40.7	34.6	27.6	37.1	68.3	72.0	76.5
89°	7.1	11.0	14.8	49.8	18.4	17.4	15.4	25.6	46.5	48.8	51.7

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CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
1°	3044.5	3044.1	3046.6	3054.7	3062.7	3074.1	3086.2	3088.9	3100.8	3113.8	3124.0
2°	3005.8	3004.4	3010.2	3021.6	3037.4	3056.6	3080.6	3095.1	3121.5	3147.0	3169.0
3°	2972.2	2970.1	2977.5	2992.8	3015.3	3044.1	3078.2	3105.4	3144.2	3184.2	3219.8
4°	2944.1	2941.6	2950.4	2969.3	2998.0	3034.6	3078.8	3118.1	3170.9	3225.4	3275.5
5°	2920.3	2916.7	2927.3	2950.1	2983.4	3028.4	3081.9	3133.5	3201.9	3271.6	3335.2
6°	2900.4	2896.2	2908.4	2933.7	2973.4	3025.0	3087.7	3152.2	3234.8	3321.5	3403.7
7°	2883.2	2879.4	2892.0	2920.8	2965.3	3024.8	3097.6	3174.6	3272.4	3377.5	3477.9
8°	2870.7	2866.0	2880.3	2911.8	2960.5	3027.0	3109.6	3198.4	3312.3	3438.3	3558.1
9°	2860.1	2855.5	2870.9	2906.0	2958.6	3031.7	3123.5	3224.8	3356.2	3503.1	3643.7
10°	2853.4	2848.3	2865.2	2902.8	2959.4	3038.0	3139.1	3254.0	3402.7	3571.9	3736.3
11°	2850.2	2844.5	2862.9	2903.4	2964.2	3047.1	3158.3	3286.6	3455.0	3645.9	3837.0
12°	2849.1	2843.7	2863.1	2906.8	2971.1	3059.4	3179.6	3320.7	3508.4	3724.9	3941.4
13°	2851.6	2844.8	2865.1	2912.1	2979.9	3073.1	3202.8	3357.4	3564.9	3808.2	4055.5
14°	2854.3	2848.6	2870.4	2919.7	2991.8	3088.8	3226.7	3394.9	3623.8	3895.7	4175.4
15°	2859.7	2853.2	2877.0	2928.8	3005.5	3107.1	3251.9	3434.0	3684.8	3988.3	4304.7
16°	2865.9	2859.4	2884.1	2938.2	3019.2	3126.5	3278.9	3475.9	3748.9	4086.8	4439.7
17°	2873.1	2866.6	2892.9	2949.7	3035.1	3147.6	3307.8	3519.2	3816.4	4189.0	4577.5
18°	2881.9	2875.2	2903.6	2961.5	3052.0	3168.5	3336.9	3563.5	3884.3	4295.9	4718.1
19°	2891.6	2885.7	2914.4	2975.3	3068.8	3191.9	3368.0	3609.1	3955.1	4404.9	4857.0
20°	2904.3	2897.6	2927.8	2990.5	3086.9	3215.2	3400.3	3656.5	4030.9	4514.7	4989.8
21°	2917.9	2912.2	2942.4	3007.2	3104.9	3239.9	3434.8	3705.9	4105.9	4629.2	5119.0
22°	2933.0	2927.0	2959.0	3025.4	3125.1	3266.1	3469.9	3756.9	4187.2	4739.3	5243.0
23°	2949.7	2944.7	2977.1	3044.8	3146.8	3293.5	3504.9	3809.5	4271.2	4848.5	5361.0
24°	2967.7	2964.5	2997.0	3065.9	3169.4	3320.6	3541.0	3863.4	4354.2	4952.3	5470.8
25°	2987.3	2984.7	3018.3	3088.2	3194.2	3349.5	3578.9	3916.9	4438.6	5054.1	5575.6
26°	3008.9	3007.6	3041.2	3110.9	3219.6	3378.4	3616.5	3972.9	4524.0	5148.7	5676.9
27°	3030.5	3032.0	3065.1	3134.7	3246.0	3406.8	3654.9	4029.6	4609.8	5240.1	5770.6
28°	3053.7	3059.6	3089.9	3160.4	3273.5	3437.9	3693.4	4089.1	4694.5	5328.0	5861.7
29°	3078.7	3088.2	3116.3	3186.4	3302.0	3468.7	3732.9	4146.8	4776.5	5411.1	5948.5
30°	3105.6	3119.3	3144.7	3213.1	3329.5	3500.7	3771.8	4205.7	4858.2	5489.8	6029.5
31°	3133.9	3150.8	3174.4	3240.5	3359.2	3532.8	3810.5	4264.8	4936.1	5563.8	6105.5
32°	3163.3	3184.7	3204.3	3270.6	3390.1	3566.3	3850.3	4324.6	5010.9	5634.2	6177.1
33°	3194.1	3218.9	3234.8	3300.2	3420.8	3599.6	3889.6	4384.9	5084.1	5704.2	6245.6
34°	3224.5	3253.4	3265.4	3331.2	3453.1	3633.6	3929.3	4444.9	5151.8	5769.4	6309.1
35°	3255.2	3288.8	3296.1	3363.4	3485.2	3668.9	3969.1	4505.6	5219.5	5834.2	6365.8
36°	3286.8	3324.8	3326.8	3396.5	3517.8	3704.0	4011.6	4567.5	5284.9	5892.6	6418.5
37°	3316.0	3360.0	3358.3	3429.3	3551.3	3740.6	4054.2	4626.8	5347.0	5950.3	6465.8
38°	3348.2	3397.1	3391.2	3464.7	3585.6	3776.2	4098.1	4687.4	5408.7	6004.8	6510.0
39°	3380.5	3432.9	3424.2	3499.3	3620.5	3814.7	4142.3	4745.4	5465.9	6056.6	6547.3
40°	3413.7	3467.7	3458.7	3534.9	3657.0	3851.7	4187.1	4802.2	5521.2	6105.9	6579.9
41°	3448.3	3500.8	3493.1	3571.2	3694.2	3890.0	4232.4	4858.4	5574.2	6152.1	6604.3
42°	3482.6	3534.1	3528.9	3606.6	3733.3	3930.4	4278.6	4911.7	5628.0	6198.2	6623.4
43°	3517.4	3566.2	3565.9	3645.8	3771.6	3971.9	4327.6	4964.1	5680.5	6239.1	6639.6
44°	3554.1	3599.9	3603.9	3684.4	3811.4	4015.9	4376.8	5015.7	5732.2	6276.5	6647.8

REPORT NUMBER: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3591.9	3633.5	3642.0	3724.4	3853.0	4057.8	4426.8	5066.3	5781.2	6312.7	6651.8
46°	3630.3	3664.8	3681.1	3763.6	3894.3	4103.0	4476.2	5112.7	5828.5	6345.0	6648.4
47°	3670.8	3695.6	3722.5	3803.6	3937.6	4146.8	4526.5	5155.5	5874.0	6375.2	6639.8
48°	3711.9	3728.5	3764.9	3844.9	3981.1	4192.8	4576.7	5198.1	5915.6	6400.0	6626.1
49°	3754.7	3762.6	3807.1	3885.6	4025.3	4239.8	4625.1	5238.1	5955.1	6422.1	6606.1
50°	3798.2	3795.3	3851.4	3928.1	4071.6	4289.1	4673.8	5276.1	5989.3	6442.0	6581.4
51°	3844.8	3829.6	3896.0	3971.5	4117.0	4337.2	4721.4	5310.4	6021.3	6455.0	6549.0
52°	3890.0	3862.6	3940.7	4016.9	4166.8	4385.6	4767.8	5342.1	6047.4	6463.3	6508.3
53°	3931.9	3888.9	3981.2	4062.1	4216.3	4435.2	4810.1	5370.5	6067.0	6464.8	6461.8
54°	3968.1	3907.5	4019.0	4109.5	4268.6	4484.1	4850.4	5392.3	6082.3	6463.2	6409.7
55°	4000.8	3927.3	4051.8	4157.9	4320.7	4533.7	4887.3	5410.6	6090.3	6451.3	6352.6
56°	4034.7	3951.4	4083.9	4207.6	4377.1	4584.2	4918.7	5424.6	6089.5	6432.7	6286.6
57°	4067.0	3977.0	4116.7	4256.5	4432.1	4635.0	4948.4	5432.1	6079.1	6403.2	6213.3
58°	4098.6	3995.5	4148.1	4309.4	4490.1	4683.7	4972.2	5435.3	6059.6	6365.7	6131.5
59°	4124.4	4009.2	4173.6	4358.6	4550.9	4730.2	4991.1	5432.7	6030.7	6318.4	6043.3
60°	4146.5	4025.7	4195.8	4408.4	4613.0	4776.3	5007.3	5422.1	5992.7	6261.1	5946.9
61°	4169.3	4041.3	4218.9	4455.2	4676.3	4822.8	5017.7	5399.5	5945.9	6192.6	5844.6
62°	4191.6	4051.4	4240.9	4504.4	4736.5	4870.2	5021.1	5365.8	5886.8	6113.6	5737.0
63°	4208.9	4059.4	4260.4	4551.2	4794.6	4913.4	5018.4	5322.6	5812.8	6023.6	5625.3
64°	4223.8	4062.8	4277.7	4595.5	4852.8	4953.7	5009.6	5266.9	5727.9	5926.6	5512.4
65°	4225.1	4032.0	4279.0	4636.8	4911.4	4989.6	4987.8	5194.3	5626.8	5816.1	5394.2
66°	4185.2	4005.6	4235.5	4671.0	4969.0	5017.5	4955.4	5103.1	5510.6	5693.1	5274.3
67°	4162.5	3992.3	4212.1	4697.4	5020.3	5039.9	4903.5	4969.6	5379.7	5559.0	5157.6
68°	4153.2	3942.3	4195.7	4686.9	5068.9	5051.8	4806.4	4742.5	5210.6	5413.6	5039.0
69°	4093.5	3800.2	4130.6	4660.5	5109.1	5043.3	4631.3	4409.5	4968.6	5248.1	4921.3
70°	3976.1	3542.2	4014.6	4657.4	5139.9	5007.5	4356.2	3980.1	4646.3	5058.0	4803.0
71°	3789.4	3161.5	3828.9	4624.4	5145.2	4917.2	4010.2	3538.2	4243.9	4828.1	4676.5
72°	3490.2	2807.1	3532.0	4569.7	5109.3	4756.0	3645.7	3148.4	3815.9	4548.9	4544.6
73°	3120.7	2470.8	3151.1	4484.9	5015.1	4523.2	3299.7	2764.6	3402.5	4225.8	4393.2
74°	2758.3	2095.3	2801.3	4332.6	4861.4	4260.8	2945.4	2278.1	2982.5	3858.5	4215.8
75°	2377.2	1595.6	2429.6	4098.5	4629.8	3971.1	2468.1	1583.9	2476.3	3454.9	3964.9
76°	1918.8	1152.6	1968.0	3789.5	4272.4	3662.2	1774.9	896.9	1784.6	3032.6	3619.9
77°	1476.8	1049.9	1559.8	3434.2	3787.6	3289.6	1086.5	657.1	1043.8	2568.5	3144.1
78°	1389.4	1369.3	1514.5	2994.4	3192.8	2706.0	536.2	430.2	772.3	1994.0	2513.9
79°	1712.1	1302.4	1823.3	2485.3	2608.4	1881.4	285.4	203.3	512.9	1320.5	1815.6
80°	2000.9	1235.5	1558.3	1983.5	2117.2	1062.8	237.2	173.2	253.5	745.9	1117.2
81°	1561.7	1162.4	1293.4	1800.1	1626.0	510.4	189.0	148.4	210.3	484.6	806.8
82°	1122.4	667.2	1024.2	1488.2	1134.9	301.9	140.8	125.6	178.8	225.0	505.1
83°	639.6	474.4	580.2	1176.3	785.2	233.4	117.1	104.9	146.1	171.2	203.3
84°	360.8	281.5	350.4	863.0	475.8	191.5	95.4	84.9	113.9	137.1	161.0
85°	239.4	91.2	281.5	484.0	347.0	149.6	76.0	67.4	87.1	103.7	132.8
86°	118.8	61.8	212.7	387.5	218.2	108.0	58.3	50.0	67.5	75.4	106.0
87°	82.5	32.3	143.8	291.0	91.0	76.2	42.7	32.5	48.2	54.1	74.3
88°	46.2	3.0	74.9	194.5	61.7	51.9	29.4	18.4	28.9	32.9	43.4
89°	10.2	1.9	6.8	97.9	32.5	27.6	16.1	6.9	12.5	13.1	12.6

REPORT NUMBER: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022
CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3089.4	3089.4	3089.4
1°	3133.0	3139.1	3141.8
2°	3187.8	3200.1	3202.5
3°	3247.4	3265.4	3270.9
4°	3314.2	3340.8	3347.0
5°	3389.0	3423.6	3432.7
6°	3471.8	3514.7	3527.1
7°	3560.3	3615.3	3629.9
8°	3656.2	3723.0	3742.5
9°	3762.1	3838.5	3863.9
10°	3874.4	3966.4	3995.2
11°	3996.8	4107.2	4138.0
12°	4129.6	4254.1	4291.9
13°	4271.9	4413.8	4455.0
14°	4422.7	4586.1	4635.5
15°	4580.2	4764.5	4827.6
16°	4741.9	4950.6	5025.6
17°	4909.1	5140.5	5223.2
18°	5073.3	5328.9	5417.9
19°	5232.9	5507.2	5600.9
20°	5387.1	5676.8	5769.4
21°	5531.2	5830.3	5921.2
22°	5666.4	5967.6	6052.1
23°	5795.3	6089.8	6170.8
24°	5914.8	6199.5	6275.0
25°	6027.2	6294.1	6364.7
26°	6127.8	6378.3	6441.9
27°	6221.6	6449.7	6511.4
28°	6304.5	6511.8	6570.0
29°	6379.7	6564.1	6618.6
30°	6443.6	6609.0	6656.9
31°	6502.2	6642.9	6688.3
32°	6551.7	6671.9	6711.1
33°	6594.1	6692.0	6728.5
34°	6628.5	6705.2	6736.3
35°	6657.6	6710.5	6740.0
36°	6679.8	6710.2	6737.9
37°	6693.8	6705.6	6728.7
38°	6703.0	6695.4	6714.8
39°	6705.9	6681.6	6697.6
40°	6703.9	6663.0	6674.9
41°	6695.5	6640.5	6643.8
42°	6682.1	6613.5	6609.6
43°	6663.4	6583.5	6567.6
44°	6638.3	6546.1	6518.7

REPORT NUMBER: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	6610.1	6504.4	6461.9
46°	6575.6	6455.2	6395.1
47°	6536.8	6399.0	6323.4
48°	6492.5	6337.2	6246.6
49°	6442.6	6265.3	6159.3
50°	6385.8	6188.8	6065.0
51°	6320.7	6102.8	5958.7
52°	6247.5	6004.5	5845.9
53°	6165.7	5899.7	5725.8
54°	6080.0	5787.2	5601.4
55°	5986.8	5664.0	5470.3
56°	5884.1	5536.6	5330.7
57°	5775.4	5404.5	5195.1
58°	5659.5	5265.6	5051.5
59°	5542.6	5126.9	4909.7
60°	5424.3	4984.4	4757.3
61°	5301.7	4837.7	4599.3
62°	5182.2	4689.1	4433.9
63°	5064.0	4539.2	4271.1
64°	4949.7	4400.6	4117.8
65°	4840.0	4268.7	3994.0
66°	4736.2	4161.1	3903.0
67°	4637.4	4081.7	3851.5
68°	4548.6	4027.3	3797.9
69°	4471.4	3970.9	3675.4
70°	4412.5	3876.6	3433.8
71°	4351.8	3695.4	3067.6
72°	4274.5	3376.4	2672.2
73°	4155.6	2958.6	2263.9
74°	3939.2	2495.3	1793.0
75°	3598.1	2008.4	1202.5
76°	3152.5	1453.1	654.5
77°	2654.1	834.9	428.0
78°	2030.4	616.4	203.5
79°	1302.1	398.1	162.1
80°	694.6	179.7	139.8
81°	455.4	148.9	120.2
82°	219.3	126.4	102.6
83°	169.3	106.2	86.4
84°	135.9	87.6	71.7
85°	103.3	71.7	57.1
86°	76.8	55.8	42.4
87°	54.9	39.9	28.9
88°	33.0	25.3	16.7
89°	12.9	10.7	7.1

REPORT NUMBER: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

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: P1445022

CATALOG NUMBER: XAS180-SFPM (5000K-144W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)