

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: P1445028

Luminaire Tested: XAS180-SFPM (5000K-180W-T4)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445028
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-180W-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 4
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 27519.9 lumens
Efficiency: 96.1%
Efficacy: 155.4 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

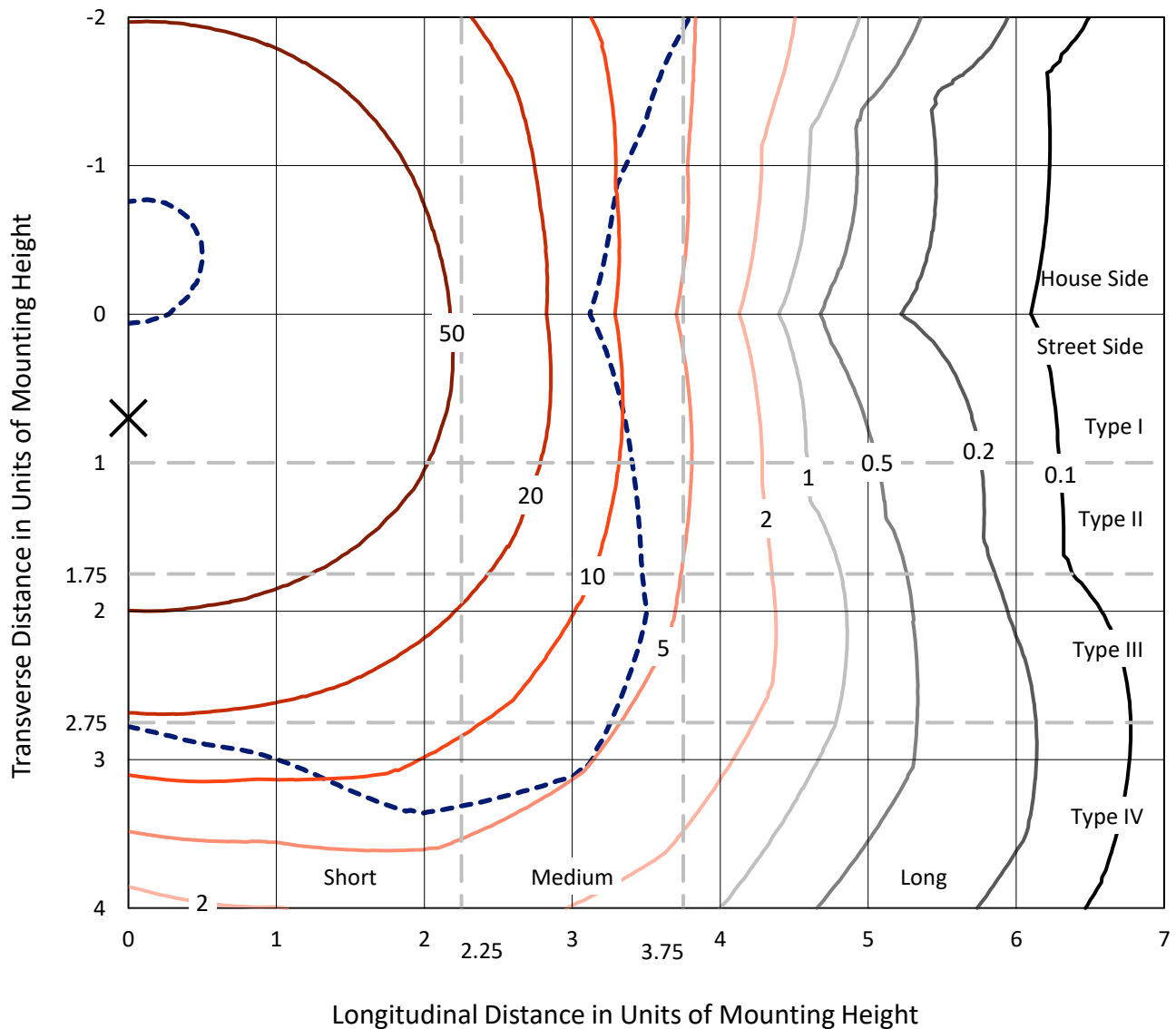
Input Watts (W): 177.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

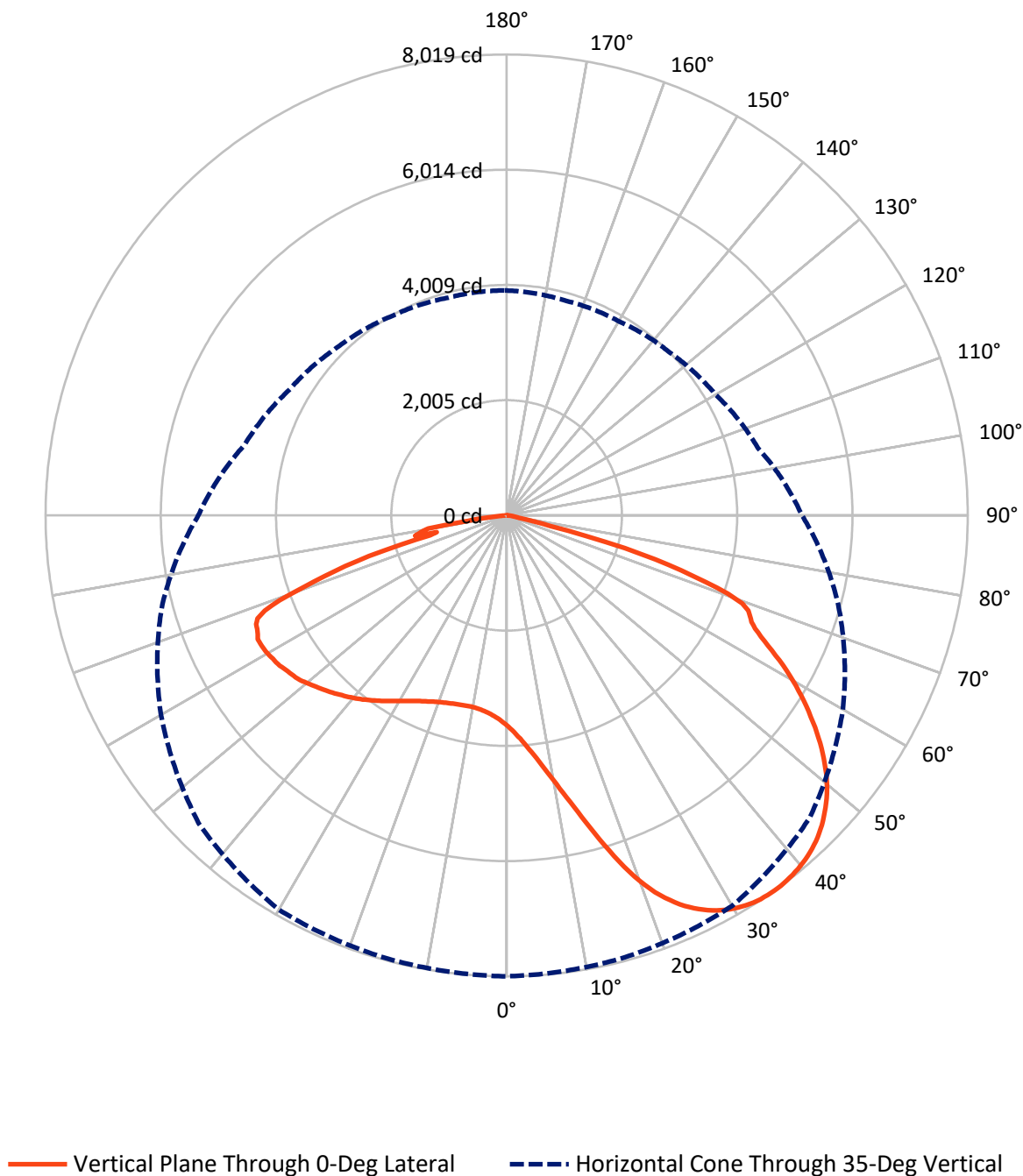


Based on 3 foot mounting height. Maximum calculated value = 635.2 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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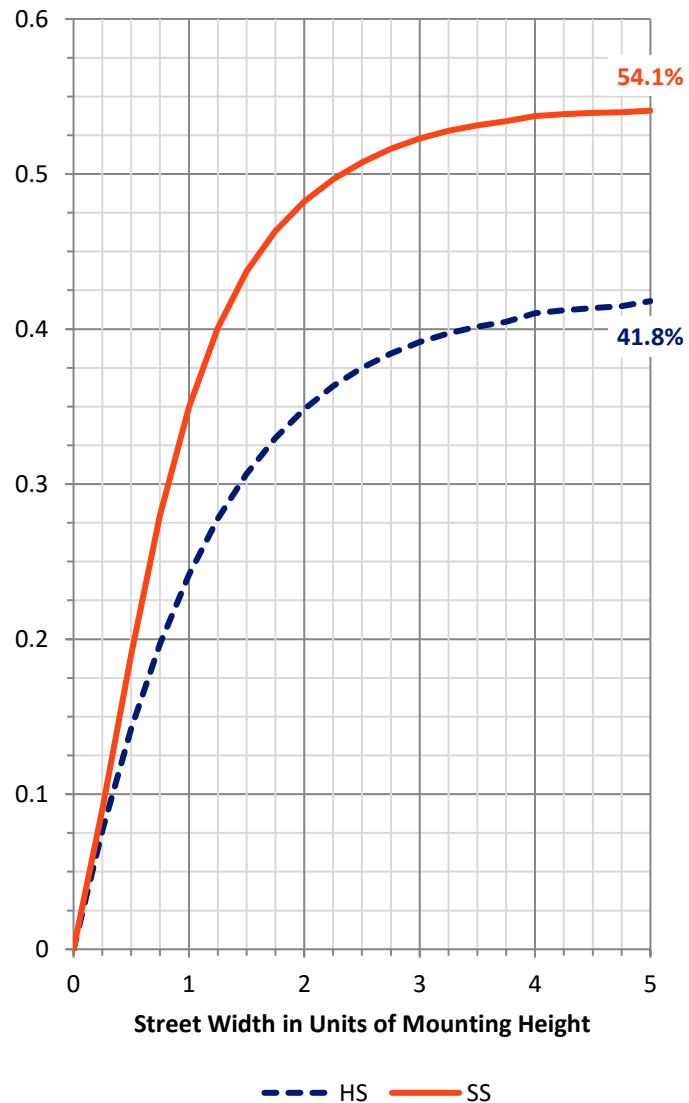
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12047.8	0.0	12047.8
	% Lamp	42.1	0.0	42.1
Street Side	Lumens	15472.1	0.0	15472.1
	% Lamp	54.0	0.0	54.0
Total	Lumens	27519.9	0.0	27519.9
	% Lamp	96.1	0.0	96.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	364.6	1.3	1.3
10°-20°	1237.3	4.5	4.3
20°-30°	2375.1	8.6	8.3
30°-40°	3577.8	13.0	12.5
40°-50°	4679.0	17.0	16.3
50°-60°	5502.6	20.0	19.2
60°-70°	5741.1	20.9	20.1
70°-80°	3675.6	13.4	12.8
80°-90°	366.8	1.3	1.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	27519.9	100.0	96.1
0°-180°	27519.9	100.0	96.1

Coefficient of Utilization



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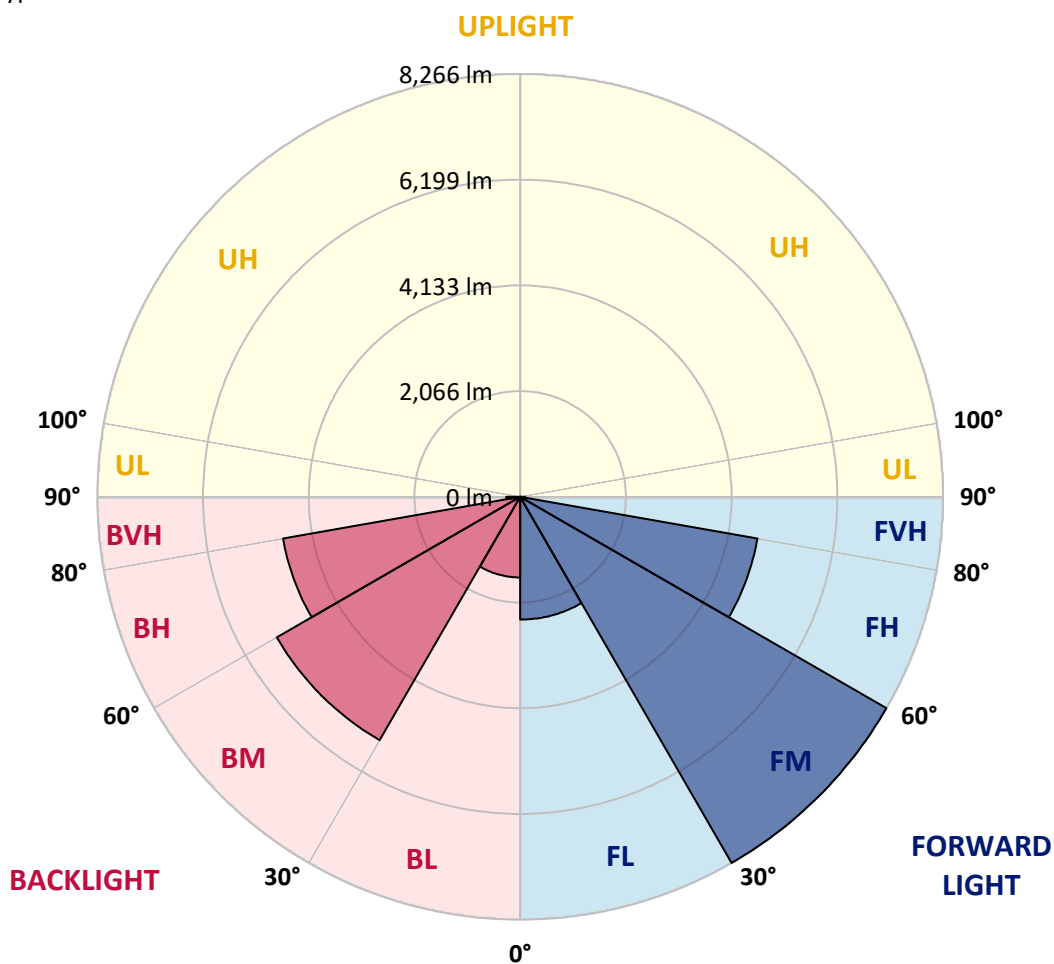
CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2400.0	8.4			
FM	(30°-60°)	8265.8	28.9			
FH	(60°-80°)	4709.7	16.5			G2/5000
FVH	(80°-90°)	96.6	0.3			G1/100
BL	(0°-30°)	1577.0	5.5	B3/2500		
BM	(30°-60°)	5493.6	19.2	B4/8500		
BH	(60°-80°)	4706.9	16.4	B4/5000		G4/5000
BVH	(80°-90°)	270.2	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		1108.1	3.9			

BUG Rating: B4-U0-G4

Type IV Short



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CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5
1°	3737.9	3736.8	3731.8	3722.9	3710.5	3697.3	3668.9	3653.9	3642.0	3631.7	3625.3
2°	3810.1	3806.7	3794.0	3772.4	3743.9	3714.0	3670.0	3641.7	3616.8	3596.5	3583.4
3°	3891.5	3884.9	3862.2	3827.5	3784.6	3737.0	3676.4	3633.6	3596.5	3567.1	3546.4
4°	3982.0	3970.9	3938.3	3889.5	3829.1	3763.2	3685.1	3628.8	3580.3	3542.9	3516.3
5°	4083.9	4068.5	4024.1	3957.2	3879.0	3794.1	3697.1	3626.3	3567.7	3522.4	3490.4
6°	4196.3	4174.7	4119.3	4033.5	3933.1	3827.2	3711.2	3627.3	3558.7	3506.5	3469.0
7°	4318.6	4291.9	4222.9	4118.5	3992.3	3864.7	3730.7	3632.1	3552.7	3494.1	3452.8
8°	4452.5	4418.8	4335.7	4207.9	4056.3	3907.4	3753.4	3641.0	3550.8	3483.8	3439.4
9°	4597.0	4560.0	4456.9	4304.8	4128.5	3952.0	3778.8	3651.2	3552.4	3477.9	3429.2
10°	4753.2	4705.4	4587.5	4410.6	4206.1	4001.1	3807.8	3665.9	3556.7	3476.7	3422.3
11°	4923.0	4869.2	4728.4	4524.5	4287.3	4054.0	3839.0	3683.6	3563.6	3478.2	3419.5
12°	5106.2	5039.7	4877.7	4642.0	4371.0	4112.0	3873.2	3702.6	3573.3	3481.9	3421.5
13°	5300.2	5226.5	5039.9	4768.4	4461.5	4173.2	3909.1	3723.6	3584.7	3488.7	3425.7
14°	5514.9	5428.6	5213.1	4903.3	4557.5	4234.6	3945.5	3744.7	3597.3	3497.4	3430.7
15°	5743.5	5645.3	5395.9	5045.2	4656.3	4298.4	3984.5	3767.4	3612.3	3507.9	3438.3
16°	5979.1	5866.0	5586.6	5197.7	4762.6	4366.4	4026.5	3793.3	3628.1	3519.7	3448.2
17°	6214.1	6089.4	5776.7	5354.0	4873.4	4437.0	4070.2	3819.3	3646.4	3532.2	3459.4
18°	6445.8	6307.7	5967.5	5511.3	4989.3	4509.1	4115.7	3848.9	3666.1	3547.8	3470.0
19°	6663.5	6517.2	6155.6	5664.0	5109.0	4584.3	4163.1	3879.7	3686.1	3564.2	3483.2
20°	6864.0	6715.2	6333.9	5816.3	5230.9	4662.9	4213.2	3912.4	3707.8	3581.5	3498.3
21°	7044.6	6898.7	6506.9	5964.1	5351.4	4744.5	4264.0	3946.6	3730.5	3598.1	3514.7
22°	7200.3	7055.6	6669.0	6108.0	5472.8	4828.2	4317.2	3982.0	3756.5	3617.6	3532.9
23°	7341.5	7206.8	6819.6	6245.9	5592.9	4915.9	4372.4	4018.4	3784.9	3638.5	3553.1
24°	7465.5	7337.1	6959.4	6375.3	5710.5	5005.9	4428.5	4056.7	3813.9	3662.1	3574.8
25°	7572.1	7453.5	7088.9	6502.1	5825.8	5097.1	4487.9	4096.3	3843.8	3687.6	3596.9
26°	7664.0	7556.5	7210.1	6620.7	5936.7	5187.5	4548.1	4137.4	3875.0	3713.6	3621.4
27°	7746.7	7644.0	7317.3	6734.5	6044.7	5279.8	4608.6	4178.9	3906.7	3741.3	3646.7
28°	7816.4	7718.6	7414.0	6843.7	6146.6	5371.1	4671.4	4219.3	3940.1	3771.5	3673.6
29°	7874.3	7783.8	7502.4	6947.3	6243.5	5462.2	4735.4	4261.7	3972.7	3804.1	3701.7
30°	7919.8	7835.9	7581.6	7047.4	6339.4	5550.4	4801.6	4304.8	4008.2	3836.4	3730.8
31°	7957.2	7877.7	7650.8	7139.5	6428.3	5637.9	4867.8	4347.0	4044.8	3869.3	3761.3
32°	7984.3	7911.9	7711.9	7225.4	6513.6	5724.0	4934.7	4391.3	4081.2	3903.5	3794.1
33°	8005.0	7936.6	7765.4	7307.1	6595.8	5807.6	5001.3	4437.3	4119.6	3937.4	3828.0
34°	8014.3	7951.3	7807.9	7380.3	6674.0	5889.2	5068.5	4480.9	4158.3	3972.6	3862.7
35°	8018.7	7958.3	7843.9	7447.9	6751.3	5968.0	5135.5	4525.5	4197.9	4008.9	3899.7
36°	8016.3	7960.3	7872.3	7510.2	6822.2	6044.5	5202.2	4570.1	4238.3	4046.0	3938.2
37°	8005.2	7954.1	7892.5	7566.9	6891.4	6118.1	5267.5	4616.3	4279.3	4084.6	3977.7
38°	7988.7	7942.7	7906.0	7617.7	6957.6	6190.4	5334.8	4663.5	4320.0	4125.0	4017.8
39°	7968.3	7928.7	7910.8	7660.7	7021.4	6261.2	5402.2	4710.5	4361.8	4165.3	4057.6
40°	7941.3	7908.5	7910.6	7699.8	7081.6	6329.9	5470.8	4760.6	4404.8	4206.9	4097.9
41°	7904.3	7881.1	7902.0	7732.7	7137.5	6395.8	5535.8	4813.1	4449.1	4248.9	4139.0
42°	7863.5	7847.1	7887.5	7761.0	7193.1	6460.7	5598.8	4865.8	4493.7	4292.7	4180.9
43°	7813.6	7809.8	7867.9	7781.9	7243.3	6525.1	5661.0	4917.1	4538.3	4338.6	4223.2
44°	7755.4	7766.7	7841.0	7794.0	7291.0	6586.6	5717.8	4970.7	4584.4	4384.1	4267.2

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CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7687.8	7713.4	7804.4	7803.0	7337.5	6648.1	5776.3	5027.1	4633.4	4430.6	4311.6
46°	7608.4	7656.8	7767.0	7804.6	7381.5	6708.9	5833.1	5085.6	4684.0	4478.3	4357.2
47°	7523.0	7587.5	7721.0	7799.3	7424.2	6770.5	5888.2	5144.5	4735.3	4526.4	4404.7
48°	7431.7	7512.0	7667.9	7784.9	7462.2	6826.7	5939.8	5204.2	4788.7	4575.4	4452.7
49°	7327.8	7426.2	7609.7	7768.0	7495.4	6881.2	5989.3	5264.5	4843.8	4627.3	4501.9
50°	7215.6	7329.7	7539.5	7740.3	7524.9	6934.7	6037.1	5324.2	4899.2	4679.6	4553.6
51°	7089.2	7224.2	7462.5	7706.9	7550.3	6983.8	6085.2	5384.6	4957.3	4735.9	4605.3
52°	6955.0	7104.6	7374.4	7662.9	7570.6	7028.8	6130.2	5447.6	5016.9	4794.1	4661.6
53°	6812.1	6977.1	7280.7	7610.4	7585.5	7069.9	6172.7	5507.2	5077.4	4852.0	4715.0
54°	6664.1	6836.5	7176.2	7552.3	7591.1	7106.0	6213.3	5565.4	5141.5	4912.1	4772.5
55°	6508.1	6686.6	7060.4	7483.8	7588.0	7135.3	6248.6	5617.8	5206.1	4975.5	4831.4
56°	6342.0	6534.0	6934.5	7406.2	7578.0	7157.5	6280.7	5668.4	5271.0	5040.5	4891.8
57°	6180.7	6374.1	6806.5	7322.1	7554.9	7171.7	6309.3	5714.7	5336.3	5109.0	4953.9
58°	6009.9	6211.6	6669.1	7228.9	7520.1	7174.1	6328.5	5756.8	5401.8	5180.4	5012.3
59°	5841.2	6046.2	6531.5	7125.0	7473.8	7164.1	6339.9	5794.4	5467.5	5255.4	5070.0
60°	5659.9	5879.6	6386.4	7013.4	7414.9	7141.8	6345.4	5826.5	5533.3	5331.5	5127.0
61°	5471.8	5704.3	6241.5	6897.8	7342.3	7109.0	6339.1	5852.4	5599.2	5408.6	5184.5
62°	5275.1	5525.7	6097.8	6773.1	7260.4	7058.7	6321.2	5870.7	5662.6	5485.0	5240.8
63°	5081.4	5345.8	5955.7	6642.9	7169.1	6989.7	6288.2	5881.0	5725.0	5560.1	5295.4
64°	4899.0	5171.2	5814.7	6510.7	7061.5	6902.5	6239.5	5883.3	5786.2	5635.2	5347.5
65°	4751.7	5011.9	5677.4	6375.3	6945.3	6799.0	6178.5	5873.5	5844.7	5711.4	5396.8
66°	4643.5	4880.5	5545.5	6240.7	6814.1	6674.5	6095.1	5849.1	5895.6	5795.3	5441.6
67°	4582.2	4784.6	5426.1	6108.1	6664.9	6534.6	5988.0	5808.8	5938.3	5874.4	5483.2
68°	4518.4	4718.9	5321.9	5976.9	6499.6	6370.3	5800.3	5738.5	5970.2	5949.0	5481.5
69°	4372.7	4655.2	5237.3	5846.3	6315.5	6154.2	5499.3	5599.1	5982.0	6016.0	5459.1
70°	4085.3	4537.9	5170.4	5714.6	6122.3	5852.2	5082.4	5367.2	5974.3	6070.5	5462.9
71°	3649.6	4306.0	5109.9	5589.5	5891.9	5459.9	4574.4	5032.1	5917.8	6105.1	5431.4
72°	3179.2	3928.1	5038.0	5460.0	5610.0	4994.6	4093.9	4644.0	5780.2	6091.3	5367.1
73°	2693.4	3439.1	4923.7	5321.3	5282.3	4519.5	3690.0	4259.0	5563.1	6017.1	5279.5
74°	2133.2	2912.3	4701.3	5154.4	4914.5	4056.8	3208.4	3893.8	5283.8	5879.3	5106.7
75°	1430.7	2344.1	4309.3	4912.6	4496.9	3547.5	2439.9	3465.7	4970.1	5664.7	4847.9
76°	778.7	1663.4	3781.0	4560.1	4061.3	2851.9	1671.5	2683.0	4660.2	5316.5	4497.0
77°	509.2	928.4	3214.1	4056.3	3586.0	1933.0	909.3	1900.3	4309.9	4806.2	4081.7
78°	242.1	683.8	2532.6	3360.8	2983.7	1059.5	441.4	1122.0	3790.1	4112.1	3571.7
79°	192.9	443.6	1670.1	2546.4	2208.6	786.3	275.0	546.8	2872.7	3354.2	2998.1
80°	166.3	203.3	883.2	1679.8	1352.9	530.1	237.9	304.4	1955.4	2677.4	2464.7
81°	143.0	171.7	564.2	879.4	965.9	274.0	200.7	254.8	1041.5	2116.8	2235.9
82°	122.1	146.1	251.5	566.3	594.7	231.2	163.7	205.2	500.0	1560.1	1890.6
83°	102.8	122.4	201.9	257.0	223.6	190.3	137.9	155.7	329.0	1168.4	1545.2
84°	85.3	100.7	163.5	201.3	179.4	147.3	113.5	125.8	264.0	822.4	1196.2
85°	67.9	82.5	125.0	166.1	138.1	113.1	89.9	100.2	216.2	530.4	739.6
86°	50.4	64.4	93.7	133.2	101.6	89.0	67.9	77.9	168.4	381.1	522.6
87°	34.4	46.3	67.9	97.1	75.0	65.1	47.3	57.8	123.1	231.7	305.5
88°	19.9	30.2	42.1	78.0	48.4	41.1	32.8	44.1	81.3	85.6	91.0
89°	8.4	13.1	17.6	59.2	21.9	20.7	18.4	30.4	55.3	58.1	61.6

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CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028
CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5	3675.5
1°	3622.1	3621.6	3624.6	3634.2	3643.8	3657.3	3671.7	3674.9	3689.1	3704.5	3716.7
2°	3576.1	3574.3	3581.3	3594.8	3613.7	3636.4	3665.0	3682.3	3713.7	3744.0	3770.2
3°	3536.1	3533.6	3542.3	3560.6	3587.3	3621.6	3662.2	3694.6	3740.7	3788.3	3830.6
4°	3502.6	3499.7	3510.1	3532.6	3566.8	3610.3	3662.9	3709.7	3772.5	3837.4	3897.0
5°	3474.4	3470.0	3482.6	3509.7	3549.4	3603.0	3666.5	3728.0	3809.4	3892.3	3967.9
6°	3450.6	3445.6	3460.1	3490.3	3537.5	3599.0	3673.5	3750.3	3848.5	3951.7	4049.4
7°	3430.2	3425.6	3440.6	3474.9	3527.8	3598.7	3685.3	3776.9	3893.2	4018.3	4137.8
8°	3415.4	3409.8	3426.7	3464.3	3522.1	3601.3	3699.6	3805.2	3940.7	4090.6	4233.1
9°	3402.8	3397.3	3415.5	3457.3	3519.9	3606.8	3716.0	3836.6	3992.9	4167.7	4334.9
10°	3394.7	3388.6	3408.8	3453.5	3520.9	3614.3	3734.7	3871.3	4048.3	4249.6	4445.2
11°	3390.9	3384.1	3406.0	3454.3	3526.6	3625.2	3757.5	3910.1	4110.5	4337.6	4565.0
12°	3389.6	3383.2	3406.3	3458.3	3534.7	3639.8	3782.8	3950.7	4174.0	4431.5	4689.1
13°	3392.6	3384.5	3408.7	3464.6	3545.2	3656.2	3810.4	3994.3	4241.2	4530.6	4824.9
14°	3395.8	3389.0	3415.0	3473.6	3559.4	3674.8	3838.9	4039.0	4311.3	4634.7	4967.5
15°	3402.2	3394.5	3422.8	3484.5	3575.7	3696.5	3868.9	4085.5	4383.8	4745.0	5121.3
16°	3409.6	3401.9	3431.3	3495.6	3592.0	3719.7	3901.0	4135.4	4460.2	4862.1	5282.0
17°	3418.1	3410.4	3441.8	3509.4	3611.0	3744.8	3935.3	4186.9	4540.4	4983.7	5446.0
18°	3428.6	3420.6	3454.5	3523.4	3631.1	3769.6	3969.9	4239.6	4621.2	5111.0	5613.2
19°	3440.2	3433.1	3467.4	3539.7	3651.1	3797.5	4006.9	4293.8	4705.4	5240.6	5778.5
20°	3455.2	3447.4	3483.2	3557.9	3672.5	3825.1	4045.4	4350.2	4795.7	5371.3	5936.4
21°	3471.5	3464.7	3500.6	3577.7	3693.9	3854.6	4086.4	4409.0	4884.9	5507.5	6090.2
22°	3489.5	3482.3	3520.4	3599.3	3718.0	3885.7	4128.1	4469.7	4981.6	5638.4	6237.7
23°	3509.4	3503.4	3542.0	3622.4	3743.8	3918.3	4169.9	4532.3	5081.5	5768.3	6378.0
24°	3530.7	3527.0	3565.6	3647.6	3770.6	3950.6	4212.8	4596.4	5180.3	5891.8	6508.8
25°	3554.1	3551.0	3591.0	3674.0	3800.2	3984.9	4257.9	4660.0	5280.7	6012.9	6633.3
26°	3579.7	3578.2	3618.2	3701.0	3830.4	4019.3	4302.6	4726.6	5382.3	6125.5	6753.9
27°	3605.5	3607.2	3646.6	3729.4	3861.9	4053.2	4348.3	4794.1	5484.3	6234.2	6865.4
28°	3633.0	3640.1	3676.1	3760.0	3894.6	4090.1	4394.1	4864.9	5585.2	6338.8	6973.7
29°	3662.8	3674.1	3707.5	3790.9	3928.5	4126.8	4441.0	4933.5	5682.6	6437.7	7077.1
30°	3694.8	3711.1	3741.3	3822.6	3961.2	4164.9	4487.4	5003.6	5779.9	6531.4	7173.4
31°	3728.4	3748.5	3776.6	3855.3	3996.5	4203.0	4533.4	5073.9	5872.6	6619.3	7263.9
32°	3763.4	3788.9	3812.2	3891.1	4033.3	4242.9	4580.8	5145.1	5961.5	6703.1	7349.0
33°	3800.1	3829.6	3848.5	3926.3	4069.8	4282.5	4627.5	5216.8	6048.7	6786.4	7430.4
34°	3836.3	3870.6	3884.9	3963.2	4108.2	4322.9	4674.7	5288.2	6129.2	6864.0	7506.0
35°	3872.7	3912.7	3921.4	4001.5	4146.4	4364.9	4722.1	5360.4	6209.7	6941.1	7573.5
36°	3910.4	3955.6	3957.9	4040.9	4185.1	4406.7	4772.7	5434.0	6287.6	7010.6	7636.2
37°	3945.1	3997.5	3995.4	4079.9	4225.0	4450.3	4823.3	5504.6	6361.4	7079.2	7692.5
38°	3983.5	4041.5	4034.6	4122.0	4265.8	4492.6	4875.6	5576.7	6434.8	7144.0	7745.1
39°	4021.8	4084.2	4073.8	4163.2	4307.4	4538.4	4928.1	5645.7	6502.9	7205.6	7789.5
40°	4061.3	4125.5	4114.9	4205.5	4350.8	4582.4	4981.5	5713.2	6568.7	7264.2	7828.2
41°	4102.5	4165.0	4155.8	4248.7	4395.1	4628.0	5035.3	5780.1	6631.7	7319.2	7857.3
42°	4143.3	4204.6	4198.4	4290.9	4441.6	4676.1	5090.3	5843.6	6695.7	7374.1	7879.9
43°	4184.7	4242.8	4242.4	4337.5	4487.1	4725.4	5148.6	5905.8	6758.2	7422.8	7899.3
44°	4228.4	4282.9	4287.6	4383.4	4534.5	4777.8	5207.2	5967.3	6819.7	7467.3	7909.0

REPORT NUMBER: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4273.3	4322.8	4333.0	4430.9	4584.0	4827.7	5266.6	6027.5	6878.0	7510.3	7913.8
46°	4319.1	4360.1	4379.5	4477.7	4633.1	4881.4	5325.4	6082.7	6934.2	7548.8	7909.7
47°	4367.2	4396.7	4428.7	4525.3	4684.6	4933.5	5385.3	6133.6	6988.4	7584.6	7899.5
48°	4416.1	4435.9	4479.2	4574.4	4736.4	4988.3	5445.0	6184.2	7038.0	7614.2	7883.2
49°	4467.1	4476.4	4529.4	4622.7	4789.0	5044.2	5502.6	6231.9	7084.9	7640.5	7859.4
50°	4518.8	4515.3	4582.1	4673.4	4844.1	5102.8	5560.5	6277.1	7125.6	7664.1	7830.0
51°	4574.3	4556.1	4635.1	4725.0	4898.0	5160.1	5617.1	6317.9	7163.7	7679.6	7791.4
52°	4628.0	4595.4	4688.3	4778.9	4957.3	5217.6	5672.4	6355.5	7194.6	7689.5	7743.1
53°	4677.8	4626.7	4736.5	4832.8	5016.2	5276.7	5722.6	6389.4	7218.0	7691.2	7687.7
54°	4720.9	4648.8	4781.4	4889.2	5078.5	5334.8	5770.6	6415.3	7236.3	7689.4	7625.7
55°	4759.8	4672.3	4820.5	4946.7	5140.5	5393.9	5814.5	6437.1	7245.7	7675.3	7557.8
56°	4800.2	4701.1	4858.7	5005.9	5207.5	5453.9	5851.9	6453.8	7244.8	7653.1	7479.3
57°	4838.5	4731.5	4897.7	5064.1	5272.9	5514.3	5887.2	6462.6	7232.4	7618.0	7392.1
58°	4876.2	4753.5	4935.0	5127.0	5342.0	5572.3	5915.5	6466.5	7209.3	7573.4	7294.8
59°	4906.9	4769.8	4965.4	5185.6	5414.3	5627.7	5938.0	6463.4	7174.8	7517.1	7189.8
60°	4933.2	4789.4	4991.9	5244.8	5488.2	5682.4	5957.3	6450.8	7129.6	7449.0	7075.2
61°	4960.3	4808.0	5019.3	5300.4	5563.4	5737.8	5969.7	6423.9	7073.9	7367.5	6953.5
62°	4986.9	4820.1	5045.5	5359.0	5635.1	5794.1	5973.7	6383.8	7003.6	7273.5	6825.4
63°	5007.4	4829.5	5068.7	5414.6	5704.2	5845.6	5970.4	6332.4	6915.6	7166.4	6692.5
64°	5025.1	4833.5	5089.2	5467.3	5773.5	5893.5	5960.1	6266.1	6814.6	7050.9	6558.2
65°	5026.7	4796.9	5090.8	5516.4	5843.2	5936.2	5934.1	6179.7	6694.3	6919.5	6417.5
66°	4979.2	4765.6	5039.1	5557.2	5911.7	5969.4	5895.6	6071.3	6556.1	6773.2	6275.0
67°	4952.2	4749.7	5011.2	5588.6	5972.8	5996.0	5833.8	5912.4	6400.3	6613.6	6136.1
68°	4941.1	4690.2	4991.7	5576.1	6030.5	6010.2	5718.3	5642.3	6199.1	6440.6	5995.0
69°	4870.2	4521.2	4914.3	5544.7	6078.4	6000.1	5510.0	5246.0	5911.2	6243.7	5854.9
70°	4730.5	4214.2	4776.2	5541.0	6115.0	5957.5	5182.7	4735.2	5527.8	6017.6	5714.3
71°	4508.3	3761.3	4555.3	5501.7	6121.4	5850.1	4771.0	4209.5	5049.1	5744.1	5563.7
72°	4152.4	3339.7	4202.1	5436.6	6078.6	5658.3	4337.3	3745.7	4539.9	5411.9	5406.8
73°	3712.8	2939.6	3748.9	5335.7	5966.5	5381.4	3925.7	3289.1	4048.1	5027.5	5226.7
74°	3281.6	2492.8	3332.8	5154.6	5783.7	5069.1	3504.2	2710.3	3548.4	4590.5	5015.6
75°	2828.2	1898.3	2890.5	4876.0	5508.2	4724.5	2936.3	1884.4	2946.1	4110.4	4717.1
76°	2282.9	1371.3	2341.3	4508.4	5083.0	4357.0	2111.7	1067.0	2123.2	3608.0	4306.7
77°	1756.9	1249.1	1855.8	4085.8	4506.1	3913.7	1292.6	781.7	1241.9	3055.7	3740.6
78°	1653.0	1629.1	1801.8	3562.5	3798.5	3219.3	637.9	511.8	918.8	2372.3	2990.8
79°	2037.0	1549.5	2169.2	2956.8	3103.2	2238.4	339.6	241.8	610.2	1571.0	2160.0
80°	2380.5	1469.9	1853.9	2359.9	2518.9	1264.5	282.2	206.1	301.6	887.4	1329.2
81°	1858.0	1382.9	1538.7	2141.6	1934.5	607.3	224.8	176.6	250.2	576.6	959.9
82°	1335.3	793.8	1218.5	1770.6	1350.2	359.2	167.5	149.5	212.7	267.7	600.9
83°	760.9	564.4	690.2	1399.4	934.2	277.7	139.3	124.8	173.8	203.7	241.9
84°	429.2	335.0	416.9	1026.7	566.1	227.9	113.5	101.0	135.6	163.1	191.5
85°	284.8	108.5	335.0	575.8	412.9	178.0	90.4	80.2	103.6	123.4	157.9
86°	141.4	73.5	253.0	461.0	259.6	128.5	69.4	59.5	80.3	89.7	126.1
87°	98.2	38.5	171.1	346.2	108.2	90.7	50.8	38.7	57.3	64.4	88.4
88°	55.0	3.5	89.1	231.3	73.5	61.7	35.0	21.9	34.3	39.2	51.7
89°	12.2	2.3	8.0	116.5	38.7	32.8	19.2	8.2	14.8	15.6	15.0

REPORT NUMBER: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028
CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3675.5	3675.5	3675.5
1°	3727.4	3734.7	3737.9
2°	3792.6	3807.3	3810.1
3°	3863.5	3884.9	3891.5
4°	3942.9	3974.6	3982.0
5°	4031.9	4073.1	4083.9
6°	4130.5	4181.5	4196.3
7°	4235.8	4301.2	4318.6
8°	4349.8	4429.3	4452.5
9°	4475.8	4566.8	4597.0
10°	4609.5	4718.9	4753.2
11°	4755.1	4886.4	4923.0
12°	4913.0	5061.2	5106.2
13°	5082.4	5251.2	5300.2
14°	5261.8	5456.2	5514.9
15°	5449.1	5668.4	5743.5
16°	5641.5	5889.8	5979.1
17°	5840.5	6115.7	6214.1
18°	6035.8	6339.9	6445.8
19°	6225.7	6552.0	6663.5
20°	6409.1	6753.8	6864.0
21°	6580.6	6936.4	7044.6
22°	6741.4	7099.8	7200.3
23°	6894.8	7245.1	7341.5
24°	7036.9	7375.7	7465.5
25°	7170.6	7488.2	7572.1
26°	7290.4	7588.4	7664.0
27°	7402.0	7673.3	7746.7
28°	7500.6	7747.2	7816.4
29°	7590.0	7809.5	7874.3
30°	7666.1	7862.8	7919.8
31°	7735.8	7903.2	7957.2
32°	7794.7	7937.7	7984.3
33°	7845.1	7961.6	8005.0
34°	7886.1	7977.3	8014.3
35°	7920.7	7983.6	8018.7
36°	7947.0	7983.2	8016.3
37°	7963.8	7977.8	8005.2
38°	7974.7	7965.6	7988.7
39°	7978.2	7949.3	7968.3
40°	7975.8	7927.1	7941.3
41°	7965.8	7900.3	7904.3
42°	7949.8	7868.2	7863.5
43°	7927.5	7832.5	7813.6
44°	7897.7	7788.0	7755.4

REPORT NUMBER: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	7864.2	7738.4	7687.8
46°	7823.1	7679.9	7608.4
47°	7776.9	7613.0	7523.0
48°	7724.2	7539.5	7431.7
49°	7664.9	7454.0	7327.8
50°	7597.3	7362.9	7215.6
51°	7519.8	7260.6	7089.2
52°	7432.8	7143.7	6955.0
53°	7335.5	7018.9	6812.1
54°	7233.5	6885.1	6664.1
55°	7122.6	6738.6	6508.1
56°	7000.5	6587.0	6342.0
57°	6871.1	6429.8	6180.7
58°	6733.2	6264.6	6009.9
59°	6594.1	6099.5	5841.2
60°	6453.4	5930.1	5659.9
61°	6307.5	5755.5	5471.8
62°	6165.4	5578.7	5275.1
63°	6024.8	5400.4	5081.4
64°	5888.7	5235.4	4899.0
65°	5758.2	5078.6	4751.7
66°	5634.8	4950.5	4643.5
67°	5517.2	4856.1	4582.2
68°	5411.6	4791.3	4518.4
69°	5319.7	4724.2	4372.7
70°	5249.6	4612.1	4085.3
71°	5177.4	4396.5	3649.6
72°	5085.5	4016.9	3179.2
73°	4944.0	3519.8	2693.4
74°	4686.6	2968.7	2133.2
75°	4280.7	2389.4	1430.7
76°	3750.6	1728.8	778.7
77°	3157.6	993.3	509.2
78°	2415.6	733.4	242.1
79°	1549.1	473.6	192.9
80°	826.3	213.8	166.3
81°	541.8	177.1	143.0
82°	260.9	150.4	122.1
83°	201.4	126.3	102.8
84°	161.7	104.2	85.3
85°	122.9	85.3	67.9
86°	91.4	66.4	50.4
87°	65.3	47.5	34.4
88°	39.3	30.1	19.9
89°	15.4	12.7	8.4

REPORT NUMBER: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-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: P1445028

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)