

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: P1444980

Luminaire Tested: XAS180-SFPM (3000K-180W-T4)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444980
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 (3000K-180W-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 4
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 26023.2 lumens
Efficiency: 90.9%
Efficacy: 146.9 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

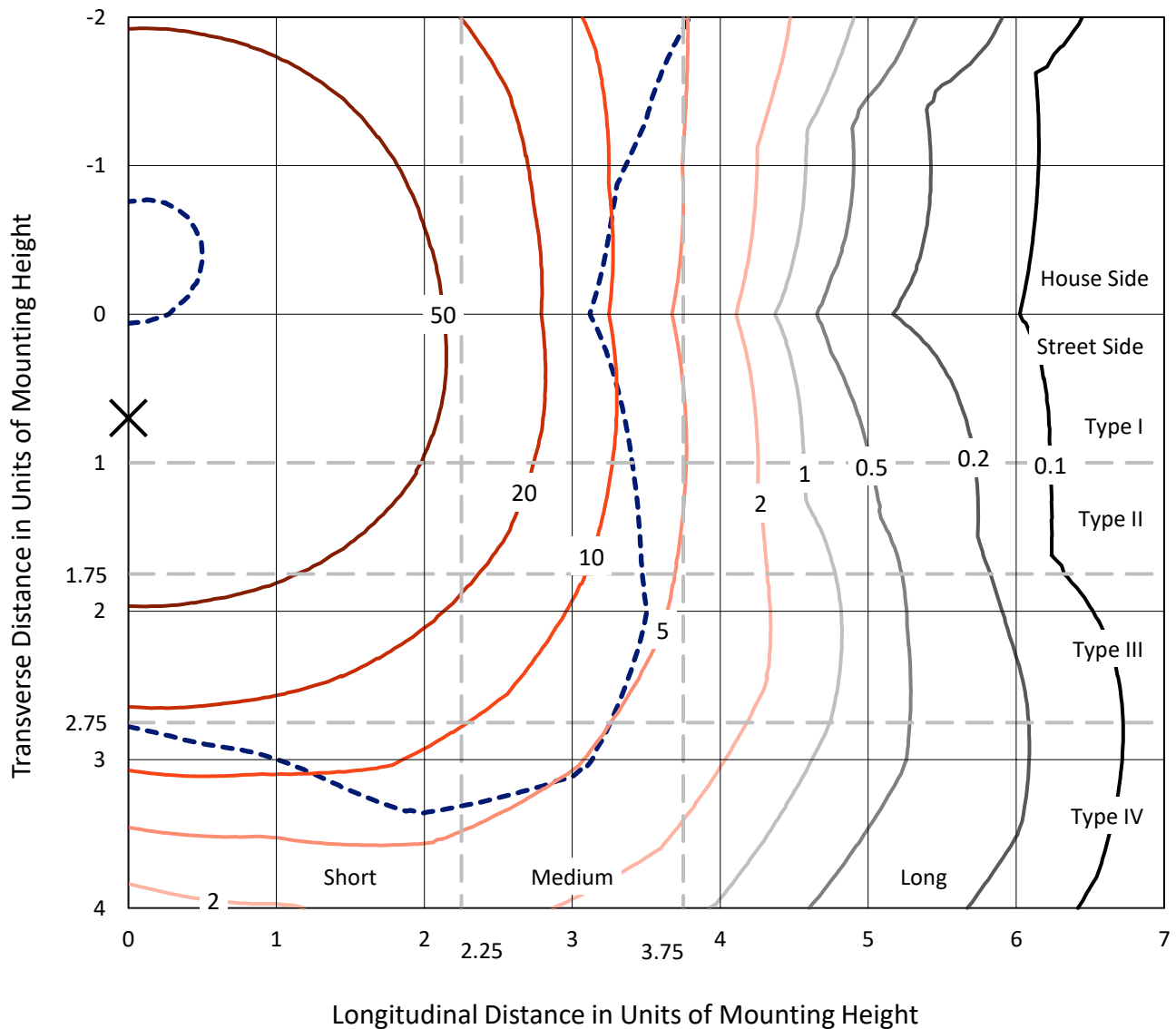
Input Watts (W): 177.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

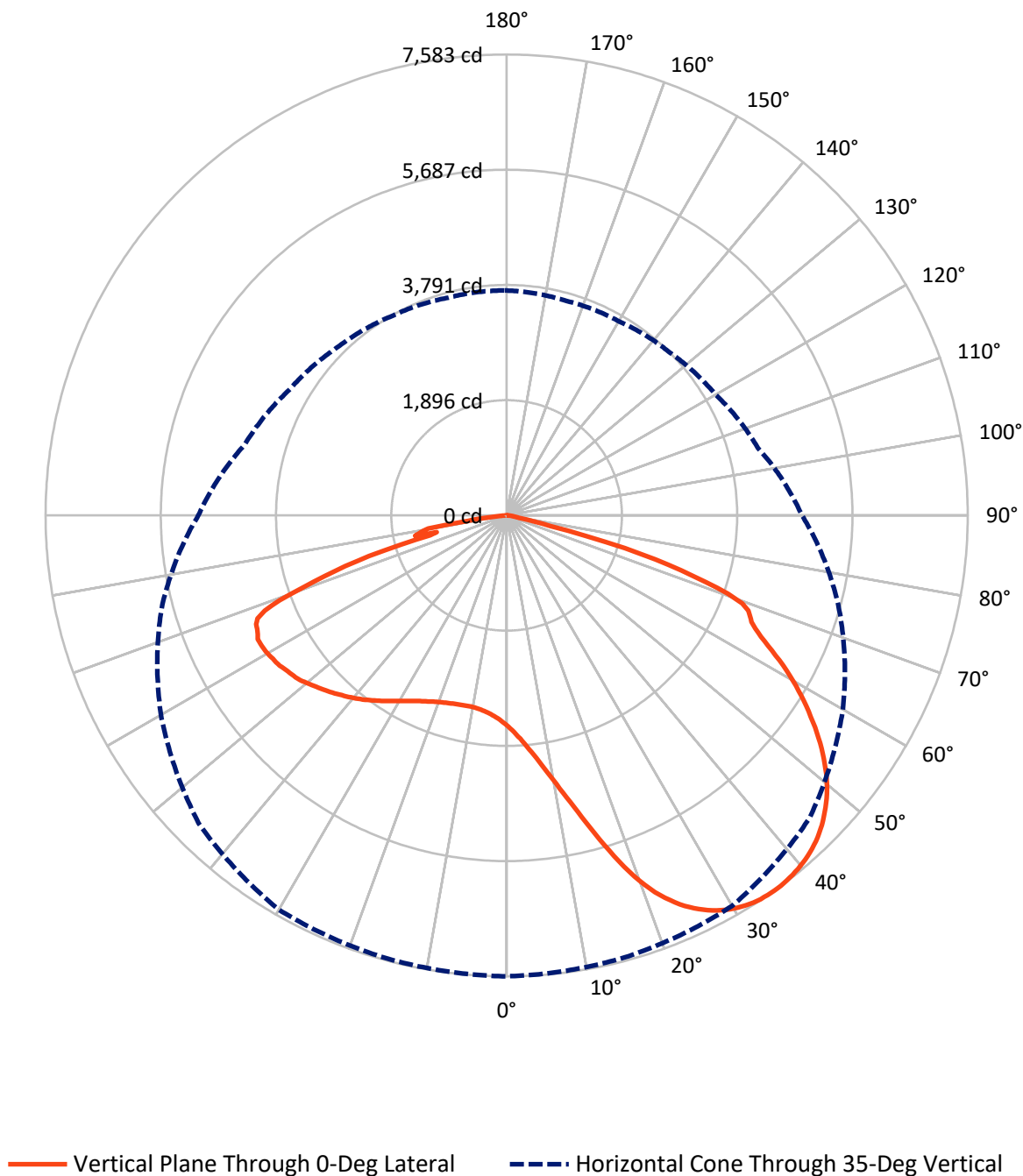


Based on 3 foot mounting height. Maximum calculated value = 600.7 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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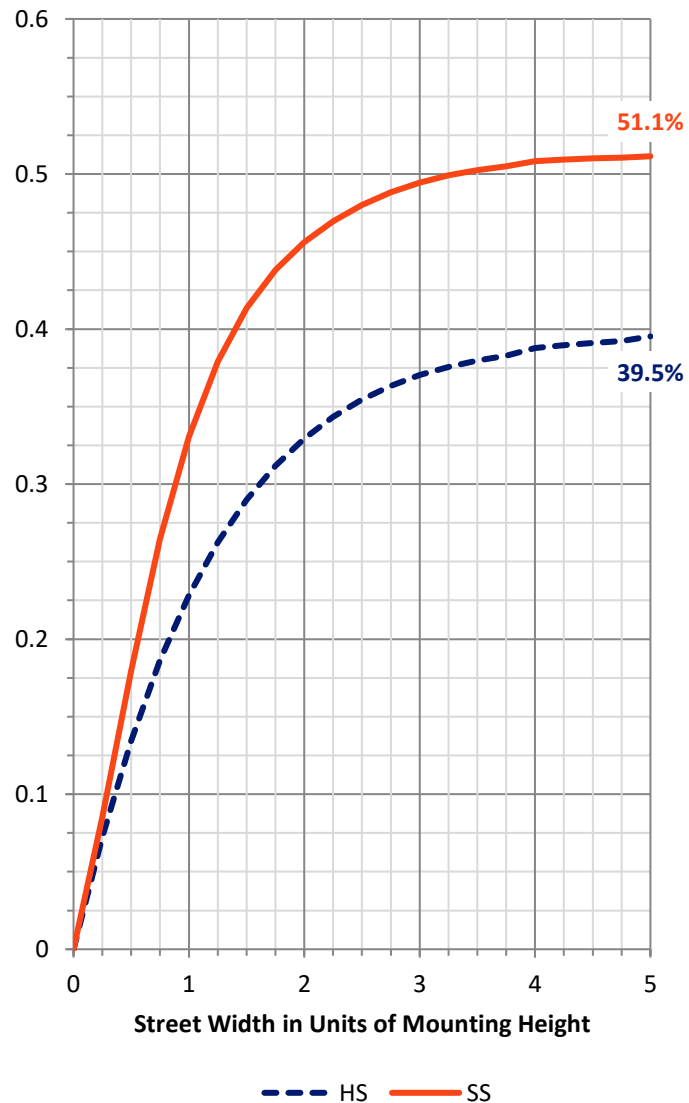
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11392.6	0.0	11392.6
	% Lamp	39.8	0.0	39.8
Street Side	Lumens	14630.6	0.0	14630.6
	% Lamp	51.1	0.0	51.1
Total	Lumens	26023.2	0.0	26023.2
	% Lamp	90.9	0.0	90.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	344.8	1.3	1.2
10°-20°	1170.0	4.5	4.1
20°-30°	2246.0	8.6	7.8
30°-40°	3383.2	13.0	11.8
40°-50°	4424.5	17.0	15.5
50°-60°	5203.3	20.0	18.2
60°-70°	5428.8	20.9	19.0
70°-80°	3475.7	13.4	12.1
80°-90°	346.9	1.3	1.2
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°	26023.2	100.0	90.9
0°-180°	26023.2	100.0	90.9

Coefficient of Utilization



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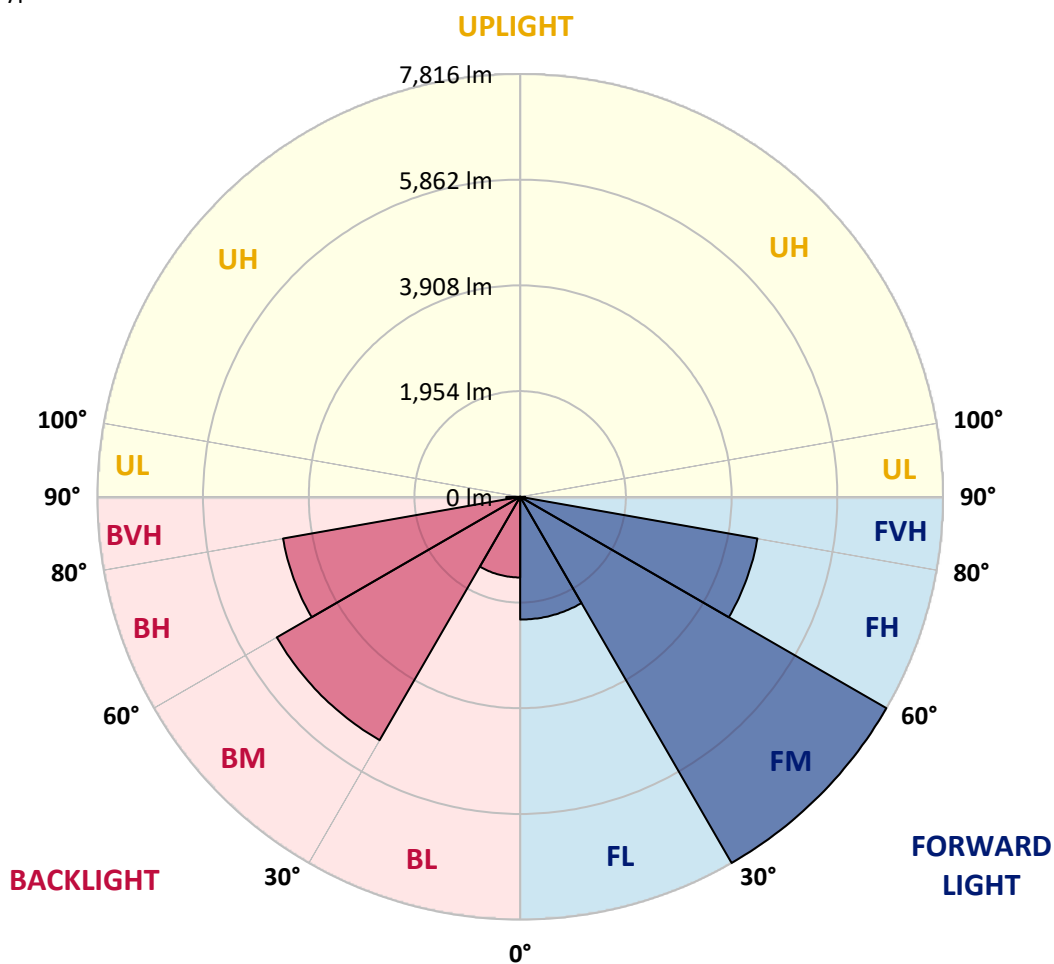
CATALOG NUMBER: XAS180-SFPM (3000K-180W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2269.5	7.9			
FM	(30°-60°)	7816.2	27.3			
FH	(60°-80°)	4453.5	15.6			G2/5000
FVH	(80°-90°)	91.4	0.3			G1/100
BL	(0°-30°)	1491.3	5.2	B3/2500		
BM	(30°-60°)	5194.9	18.1	B4/8500		
BH	(60°-80°)	4450.9	15.5	B4/5000		G4/5000
BVH	(80°-90°)	255.5	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		2604.8	9.1			

BUG Rating: B4-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6
1°	3534.6	3533.6	3528.8	3520.4	3508.7	3496.2	3469.4	3455.2	3443.9	3434.2	3428.1
2°	3602.8	3599.7	3587.7	3567.2	3540.3	3512.0	3470.4	3443.7	3420.1	3400.9	3388.5
3°	3679.8	3673.6	3652.1	3619.3	3578.7	3533.8	3476.5	3435.9	3400.9	3373.1	3353.5
4°	3765.5	3754.9	3724.1	3677.9	3620.8	3558.6	3484.7	3431.4	3385.6	3350.2	3325.0
5°	3861.8	3847.3	3805.3	3742.0	3668.0	3587.7	3496.0	3429.0	3373.7	3330.9	3300.6
6°	3968.1	3947.6	3895.3	3814.1	3719.2	3619.0	3509.4	3430.0	3365.1	3315.8	3280.3
7°	4083.7	4058.5	3993.3	3894.5	3775.2	3654.5	3527.8	3434.6	3359.5	3304.0	3265.1
8°	4210.3	4178.5	4099.9	3979.1	3835.7	3694.9	3549.3	3442.9	3357.7	3294.3	3252.3
9°	4346.9	4312.0	4214.5	4070.7	3904.0	3737.1	3573.3	3452.7	3359.2	3288.8	3242.7
10°	4494.7	4449.5	4338.0	4170.7	3977.3	3783.5	3600.7	3466.5	3363.2	3287.6	3236.1
11°	4655.3	4604.4	4471.2	4278.4	4054.2	3833.5	3630.2	3483.3	3369.8	3289.0	3233.5
12°	4828.4	4765.6	4612.4	4389.6	4133.2	3888.4	3662.6	3501.2	3378.9	3292.5	3235.4
13°	5012.0	4942.3	4765.8	4509.0	4218.9	3946.3	3696.5	3521.1	3389.8	3299.0	3239.4
14°	5215.0	5133.3	4929.6	4636.6	4309.7	4004.3	3730.9	3541.0	3401.7	3307.2	3244.1
15°	5431.1	5338.3	5102.4	4770.8	4403.0	4064.6	3767.8	3562.5	3415.9	3317.1	3251.3
16°	5653.9	5546.9	5282.8	4915.0	4503.6	4129.0	3807.5	3587.0	3430.8	3328.3	3260.7
17°	5876.2	5758.2	5462.5	5062.8	4608.4	4195.7	3848.8	3611.6	3448.1	3340.1	3271.2
18°	6095.2	5964.6	5642.9	5211.6	4717.9	4263.9	3891.9	3639.6	3466.8	3354.9	3281.2
19°	6301.1	6162.8	5820.8	5355.9	4831.2	4334.9	3936.7	3668.6	3485.7	3370.3	3293.8
20°	6490.7	6349.9	5989.4	5499.9	4946.4	4409.3	3984.1	3699.6	3506.1	3386.7	3308.0
21°	6661.5	6523.5	6153.0	5639.7	5060.3	4486.5	4032.1	3731.9	3527.6	3402.4	3323.5
22°	6808.7	6671.9	6306.3	5775.8	5175.1	4565.7	4082.4	3765.5	3552.2	3420.9	3340.8
23°	6942.2	6814.8	6448.7	5906.2	5288.7	4648.6	4134.6	3799.8	3579.0	3440.6	3359.9
24°	7059.5	6938.1	6580.9	6028.6	5399.9	4733.6	4187.7	3836.1	3606.5	3462.9	3380.4
25°	7160.3	7048.1	6703.4	6148.5	5508.9	4819.9	4243.8	3873.5	3634.7	3487.0	3401.3
26°	7247.2	7145.5	6818.0	6260.6	5613.8	4905.3	4300.8	3912.4	3664.3	3511.7	3424.4
27°	7325.4	7228.3	6919.3	6368.2	5715.9	4992.6	4357.9	3951.6	3694.2	3537.8	3448.4
28°	7391.3	7298.8	7010.8	6471.5	5812.4	5079.0	4417.3	3989.8	3725.8	3566.4	3473.8
29°	7446.0	7360.5	7094.4	6569.5	5903.9	5165.1	4477.8	4029.9	3756.6	3597.2	3500.4
30°	7489.1	7409.7	7169.2	6664.1	5994.6	5248.5	4540.5	4070.7	3790.2	3627.7	3527.9
31°	7524.5	7449.3	7234.7	6751.2	6078.7	5331.3	4603.0	4110.6	3824.8	3658.8	3556.7
32°	7550.1	7481.6	7292.5	6832.4	6159.3	5412.7	4666.3	4152.5	3859.3	3691.2	3587.7
33°	7569.6	7504.9	7343.0	6909.7	6237.0	5491.7	4729.3	4196.0	3895.5	3723.3	3619.8
34°	7578.5	7518.8	7383.3	6978.9	6311.0	5568.9	4792.8	4237.2	3932.2	3756.5	3652.6
35°	7582.5	7525.5	7417.3	7042.9	6384.1	5643.5	4856.2	4279.4	3969.6	3790.9	3687.6
36°	7580.3	7527.4	7444.2	7101.8	6451.2	5715.7	4919.3	4321.6	4007.8	3825.9	3724.0
37°	7569.8	7521.5	7463.3	7155.3	6516.6	5785.4	4981.0	4365.2	4046.5	3862.4	3761.4
38°	7554.2	7510.7	7476.0	7203.4	6579.2	5853.7	5044.7	4409.8	4085.1	3900.6	3799.3
39°	7534.9	7497.5	7480.6	7244.0	6639.5	5920.7	5108.4	4454.3	4124.6	3938.8	3836.9
40°	7509.4	7478.4	7480.4	7281.0	6696.4	5985.6	5173.2	4501.7	4165.2	3978.1	3875.0
41°	7474.4	7452.5	7472.2	7312.1	6749.4	6048.0	5234.7	4551.3	4207.1	4017.8	3913.9
42°	7435.8	7420.3	7458.6	7338.9	6801.9	6109.3	5294.3	4601.2	4249.3	4059.2	3953.5
43°	7388.7	7385.0	7440.0	7358.7	6849.3	6170.2	5353.1	4649.6	4291.5	4102.6	3993.5
44°	7333.6	7344.3	7414.6	7370.1	6894.4	6228.4	5406.8	4700.4	4335.0	4145.7	4035.2

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CATALOG NUMBER: XAS180-SFPM (3000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7269.7	7293.8	7379.9	7378.7	6938.4	6286.5	5462.1	4753.7	4381.4	4189.6	4077.1
46°	7194.6	7240.4	7344.6	7380.1	6980.1	6344.0	5515.8	4809.0	4429.2	4234.8	4120.2
47°	7113.9	7174.9	7301.1	7375.1	7020.4	6402.3	5567.9	4864.7	4477.8	4280.2	4165.1
48°	7027.5	7103.4	7250.9	7361.5	7056.3	6455.4	5616.7	4921.2	4528.3	4326.6	4210.5
49°	6929.2	7022.3	7195.9	7345.6	7087.8	6506.9	5663.5	4978.2	4580.4	4375.7	4257.0
50°	6823.2	6931.1	7129.4	7319.3	7115.7	6557.6	5708.7	5034.6	4632.7	4425.1	4306.0
51°	6703.6	6831.3	7056.6	7287.8	7139.7	6604.0	5754.3	5091.8	4687.7	4478.3	4354.9
52°	6576.7	6718.2	6973.3	7246.1	7158.9	6646.5	5796.8	5151.3	4744.1	4533.4	4408.0
53°	6441.6	6597.6	6884.7	7196.5	7172.9	6685.4	5837.0	5207.7	4801.3	4588.1	4458.6
54°	6301.7	6464.7	6785.9	7141.6	7178.2	6719.5	5875.3	5262.7	4861.9	4644.9	4512.9
55°	6154.1	6322.9	6676.5	7076.8	7175.3	6747.3	5908.8	5312.2	4923.0	4704.9	4568.7
56°	5997.1	6178.7	6557.4	7003.4	7165.9	6768.3	5939.2	5360.1	4984.3	4766.4	4625.7
57°	5844.5	6027.4	6436.3	6923.9	7144.0	6781.6	5966.2	5403.9	5046.1	4831.2	4684.5
58°	5683.0	5873.8	6306.4	6835.7	7111.1	6783.9	5984.3	5443.7	5108.1	4898.6	4739.7
59°	5523.5	5717.4	6176.2	6737.5	7067.3	6774.4	5995.1	5479.3	5170.1	4969.6	4794.3
60°	5352.0	5559.8	6039.1	6632.0	7011.6	6753.4	6000.3	5509.7	5232.3	5041.5	4848.2
61°	5174.2	5394.0	5902.1	6522.6	6943.0	6722.4	5994.3	5534.1	5294.7	5114.4	4902.5
62°	4988.2	5225.1	5766.2	6404.7	6865.5	6674.8	5977.4	5551.4	5354.7	5186.7	4955.8
63°	4805.0	5055.1	5631.8	6281.6	6779.2	6609.5	5946.2	5561.1	5413.7	5257.7	5007.4
64°	4632.6	4890.0	5498.5	6156.6	6677.5	6527.1	5900.2	5563.3	5471.5	5328.8	5056.7
65°	4493.3	4739.3	5368.7	6028.6	6567.6	6429.2	5842.4	5554.0	5526.8	5400.8	5103.3
66°	4390.9	4615.1	5243.9	5901.3	6443.5	6311.5	5763.6	5531.0	5574.9	5480.1	5145.7
67°	4332.9	4524.4	5131.0	5775.9	6302.4	6179.2	5662.4	5492.8	5615.4	5554.9	5185.0
68°	4272.7	4462.3	5032.4	5651.8	6146.1	6023.9	5484.8	5426.4	5645.5	5625.5	5183.4
69°	4134.9	4402.0	4952.4	5528.4	5972.0	5819.5	5200.2	5294.6	5656.6	5688.8	5162.2
70°	3863.1	4291.1	4889.2	5403.8	5789.4	5533.9	4806.0	5075.3	5649.4	5740.4	5165.8
71°	3451.1	4071.8	4832.0	5285.5	5571.5	5163.0	4325.6	4758.5	5595.9	5773.1	5136.0
72°	3006.3	3714.5	4764.0	5163.1	5304.9	4723.0	3871.3	4391.4	5465.8	5760.0	5075.2
73°	2546.9	3252.1	4655.9	5031.9	4995.0	4273.7	3489.3	4027.3	5260.5	5689.8	4992.3
74°	2017.2	2753.9	4445.6	4874.1	4647.2	3836.2	3033.9	3682.0	4996.4	5559.6	4829.0
75°	1352.9	2216.6	4075.0	4645.4	4252.3	3354.6	2307.2	3277.2	4699.8	5356.6	4584.2
76°	736.3	1572.9	3575.4	4312.1	3840.5	2696.8	1580.6	2537.1	4406.8	5027.3	4252.4
77°	481.5	877.9	3039.3	3835.7	3390.9	1827.8	859.9	1796.9	4075.5	4544.8	3859.7
78°	229.0	646.7	2394.9	3178.1	2821.5	1001.9	417.4	1061.0	3583.9	3888.4	3377.4
79°	182.4	419.4	1579.3	2408.0	2088.5	743.5	260.1	517.1	2716.5	3171.8	2835.0
80°	157.2	192.2	835.1	1588.5	1279.3	501.3	224.9	287.8	1849.1	2531.8	2330.7
81°	135.2	162.4	533.5	831.6	913.4	259.1	189.8	240.9	984.8	2001.7	2114.3
82°	115.4	138.2	237.9	535.5	562.4	218.7	154.8	194.1	472.8	1475.2	1787.7
83°	97.2	115.7	190.9	243.0	211.4	179.9	130.4	147.2	311.1	1104.9	1461.1
84°	80.7	95.2	154.6	190.3	169.6	139.3	107.3	119.0	249.6	777.7	1131.2
85°	64.2	78.0	118.2	157.1	130.6	107.0	85.0	94.8	204.4	501.6	699.4
86°	47.7	60.9	88.6	125.9	96.0	84.2	64.2	73.6	159.3	360.3	494.2
87°	32.5	43.8	64.2	91.8	70.9	61.5	44.7	54.6	116.4	219.1	288.9
88°	18.8	28.6	39.8	73.7	45.8	38.9	31.1	41.7	76.9	81.0	86.0
89°	8.0	12.4	16.6	56.0	20.7	19.6	17.4	28.7	52.3	54.9	58.2

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CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6	3475.6
1°	3425.1	3424.7	3427.5	3436.6	3445.6	3458.4	3472.0	3475.0	3488.5	3503.0	3514.6
2°	3381.6	3379.9	3386.5	3399.3	3417.1	3438.7	3465.7	3482.0	3511.8	3540.4	3565.1
3°	3343.8	3341.4	3349.7	3366.9	3392.2	3424.7	3463.0	3493.7	3537.3	3582.3	3622.3
4°	3312.1	3309.3	3319.2	3340.5	3372.8	3413.9	3463.7	3507.9	3567.3	3628.7	3685.0
5°	3285.4	3281.3	3293.2	3318.9	3356.4	3407.0	3467.1	3525.2	3602.2	3680.6	3752.1
6°	3263.0	3258.2	3272.0	3300.5	3345.1	3403.2	3473.7	3546.3	3639.2	3736.7	3829.2
7°	3243.6	3239.3	3253.5	3286.0	3336.0	3402.9	3484.8	3571.5	3681.5	3799.7	3912.7
8°	3229.6	3224.3	3240.3	3275.9	3330.6	3405.4	3498.4	3598.2	3726.4	3868.1	4002.9
9°	3217.7	3212.5	3229.8	3269.2	3328.5	3410.7	3513.9	3627.9	3775.7	3941.1	4099.2
10°	3210.1	3204.3	3223.4	3265.7	3329.4	3417.8	3531.6	3660.7	3828.1	4018.4	4203.4
11°	3206.5	3200.1	3220.8	3266.4	3334.8	3428.0	3553.1	3697.5	3886.9	4101.7	4316.7
12°	3205.2	3199.2	3221.1	3270.2	3342.5	3441.9	3577.1	3735.8	3947.0	4190.5	4434.1
13°	3208.1	3200.4	3223.3	3276.1	3352.4	3457.3	3603.2	3777.1	4010.5	4284.2	4562.5
14°	3211.1	3204.7	3229.2	3284.7	3365.8	3474.9	3630.1	3819.4	4076.8	4382.7	4697.4
15°	3217.1	3209.9	3236.7	3295.0	3381.2	3495.5	3658.5	3863.3	4145.4	4486.9	4842.8
16°	3224.1	3216.9	3244.7	3305.5	3396.7	3517.4	3688.8	3910.4	4217.6	4597.7	4994.7
17°	3232.2	3225.0	3254.6	3318.5	3414.6	3541.1	3721.3	3959.2	4293.5	4712.6	5149.8
18°	3242.1	3234.6	3266.6	3331.8	3433.6	3564.6	3754.0	4009.0	4369.9	4833.0	5307.9
19°	3253.1	3246.4	3278.8	3347.2	3452.5	3590.9	3789.0	4060.2	4449.5	4955.6	5464.2
20°	3267.3	3259.9	3293.8	3364.4	3472.8	3617.1	3825.4	4113.6	4534.8	5079.1	5613.6
21°	3282.7	3276.2	3310.2	3383.1	3493.0	3644.9	3864.2	4169.2	4619.2	5208.0	5759.0
22°	3299.7	3292.9	3329.0	3403.6	3515.8	3674.4	3903.6	4226.6	4710.6	5331.8	5898.4
23°	3318.5	3312.9	3349.3	3425.4	3540.2	3705.2	3943.1	4285.8	4805.2	5454.6	6031.1
24°	3338.7	3335.1	3371.7	3449.2	3565.6	3735.7	3983.7	4346.4	4898.5	5571.4	6154.8
25°	3360.8	3357.9	3395.7	3474.2	3593.5	3768.2	4026.3	4406.6	4993.5	5685.9	6272.6
26°	3385.0	3383.6	3421.4	3499.8	3622.1	3800.7	4068.6	4469.6	5089.6	5792.4	6386.6
27°	3409.4	3411.0	3448.3	3526.6	3651.8	3832.7	4111.8	4533.4	5186.0	5895.2	6492.0
28°	3435.4	3442.1	3476.2	3555.5	3682.7	3867.6	4155.1	4600.3	5281.4	5994.1	6594.5
29°	3463.6	3474.3	3505.8	3584.7	3714.8	3902.4	4199.5	4665.2	5373.6	6087.6	6692.2
30°	3493.8	3509.3	3537.8	3614.7	3745.7	3938.3	4243.3	4731.5	5465.6	6176.1	6783.3
31°	3525.7	3544.7	3571.2	3645.7	3779.2	3974.4	4286.9	4797.9	5553.2	6259.3	6868.8
32°	3558.7	3582.8	3604.8	3679.5	3813.9	4012.2	4331.7	4865.3	5637.3	6338.6	6949.3
33°	3593.4	3621.3	3639.2	3712.7	3848.4	4049.6	4375.9	4933.1	5719.7	6417.3	7026.3
34°	3627.7	3660.1	3673.6	3747.6	3884.8	4087.8	4420.5	5000.6	5795.8	6490.7	7097.8
35°	3662.1	3699.9	3708.1	3783.9	3920.9	4127.5	4465.3	5068.9	5872.0	6563.6	7161.6
36°	3697.7	3740.5	3742.6	3821.1	3957.5	4167.1	4513.1	5138.5	5945.6	6629.3	7220.9
37°	3730.6	3780.1	3778.1	3858.0	3995.3	4208.2	4561.0	5205.2	6015.4	6694.2	7274.1
38°	3766.8	3821.7	3815.2	3897.8	4033.8	4248.2	4610.5	5273.4	6084.9	6755.4	7323.8
39°	3803.1	3862.1	3852.3	3936.8	4073.2	4291.6	4660.1	5338.7	6149.2	6813.7	7365.8
40°	3840.5	3901.2	3891.1	3976.8	4114.2	4333.2	4710.5	5402.5	6211.4	6869.2	7402.5
41°	3879.4	3938.4	3929.8	4017.6	4156.1	4376.3	4761.5	5465.7	6271.0	6921.2	7429.9
42°	3918.0	3975.9	3970.1	4057.5	4200.1	4421.8	4813.4	5525.7	6331.6	6973.1	7451.4
43°	3957.1	4012.1	4011.7	4101.6	4243.0	4468.4	4868.6	5584.6	6390.7	7019.1	7469.6
44°	3998.4	4050.0	4054.4	4145.0	4287.9	4517.9	4924.0	5642.7	6448.8	7061.1	7478.8

REPORT NUMBER: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4040.9	4087.7	4097.3	4190.0	4334.7	4565.1	4980.2	5699.6	6503.9	7101.9	7483.4
46°	4084.2	4123.0	4141.3	4234.1	4381.1	4615.9	5035.8	5751.9	6557.1	7138.2	7479.6
47°	4129.7	4157.6	4187.9	4279.1	4429.8	4665.2	5092.4	5800.0	6608.3	7172.1	7469.8
48°	4176.0	4194.6	4235.6	4325.6	4478.8	4717.0	5148.9	5847.9	6655.2	7200.1	7454.5
49°	4224.1	4233.0	4283.0	4371.3	4528.6	4769.8	5203.3	5893.0	6699.5	7224.9	7431.9
50°	4273.0	4269.8	4332.9	4419.2	4580.7	4825.3	5258.0	5935.7	6738.1	7247.3	7404.1
51°	4325.5	4308.3	4383.0	4468.0	4631.6	4879.4	5311.6	5974.2	6774.1	7261.9	7367.7
52°	4376.3	4345.5	4433.3	4519.0	4687.7	4933.8	5363.8	6009.9	6803.3	7271.3	7321.9
53°	4423.4	4375.0	4478.9	4569.9	4743.4	4989.7	5411.4	6041.9	6825.4	7272.9	7269.6
54°	4464.1	4395.9	4521.4	4623.3	4802.3	5044.7	5456.7	6066.4	6842.7	7271.2	7210.9
55°	4500.9	4418.2	4558.3	4677.6	4860.9	5100.5	5498.3	6087.0	6851.6	7257.8	7146.8
56°	4539.1	4445.4	4594.5	4733.6	4924.3	5157.2	5533.7	6102.8	6850.8	7236.9	7072.5
57°	4575.4	4474.2	4631.4	4788.6	4986.2	5214.4	5567.0	6111.1	6839.1	7203.7	6990.1
58°	4611.0	4494.9	4666.6	4848.2	5051.4	5269.2	5593.7	6114.8	6817.2	7161.5	6898.1
59°	4640.0	4510.4	4695.4	4903.5	5119.9	5321.6	5615.0	6111.9	6784.6	7108.2	6798.8
60°	4664.9	4528.9	4720.4	4959.5	5189.7	5373.4	5633.3	6100.0	6741.8	7043.9	6690.4
61°	4690.6	4546.5	4746.3	5012.2	5260.9	5425.8	5645.0	6074.5	6689.2	6966.8	6575.3
62°	4715.6	4557.9	4771.1	5067.5	5328.7	5479.0	5648.8	6036.6	6622.7	6877.9	6454.2
63°	4735.1	4566.8	4793.0	5120.1	5393.9	5527.7	5645.7	5988.0	6539.5	6776.6	6328.5
64°	4751.8	4570.7	4812.4	5170.0	5459.5	5573.0	5635.9	5925.3	6443.9	6667.5	6201.5
65°	4753.3	4536.0	4813.9	5216.4	5525.4	5613.4	5611.4	5843.6	6330.2	6543.2	6068.5
66°	4708.4	4506.4	4765.0	5255.0	5590.2	5644.7	5574.9	5741.1	6199.5	6404.8	5933.7
67°	4682.8	4491.4	4738.6	5284.7	5647.9	5669.9	5516.5	5590.8	6052.2	6253.9	5802.4
68°	4672.4	4435.1	4720.2	5272.9	5702.5	5683.4	5407.3	5335.4	5862.0	6090.3	5668.9
69°	4605.3	4275.3	4647.0	5243.1	5747.8	5673.7	5210.3	4960.7	5589.7	5904.2	5536.5
70°	4473.2	3985.0	4516.5	5239.7	5782.4	5633.5	4900.8	4477.7	5227.1	5690.4	5403.5
71°	4263.1	3556.7	4307.6	5202.5	5788.4	5531.9	4511.5	3980.5	4774.5	5431.7	5261.1
72°	3926.5	3158.1	3973.5	5141.0	5748.0	5350.6	4101.4	3542.0	4293.0	5117.6	5112.8
73°	3510.8	2779.7	3545.0	5045.5	5642.0	5088.7	3712.2	3110.2	3827.9	4754.1	4942.4
74°	3103.2	2357.2	3151.5	4874.3	5469.1	4793.4	3313.6	2562.9	3355.4	4340.9	4742.8
75°	2674.4	1795.1	2733.3	4610.8	5208.6	4467.6	2776.6	1781.9	2785.9	3886.8	4460.6
76°	2158.7	1296.7	2214.0	4263.2	4806.5	4120.1	1996.8	1009.0	2007.7	3411.8	4072.4
77°	1661.4	1181.2	1754.8	3863.5	4261.0	3700.8	1222.3	739.2	1174.3	2889.5	3537.2
78°	1563.1	1540.5	1703.8	3368.8	3591.9	3044.3	603.2	483.9	868.8	2243.2	2828.2
79°	1926.2	1465.2	2051.3	2796.0	2934.4	2116.6	321.1	228.7	577.0	1485.6	2042.5
80°	2251.1	1390.0	1753.1	2231.5	2381.9	1195.7	266.8	194.9	285.2	839.1	1256.9
81°	1756.9	1307.7	1455.0	2025.2	1829.3	574.2	212.6	167.0	236.6	545.2	907.7
82°	1262.7	750.6	1152.3	1674.3	1276.8	339.7	158.4	141.4	201.2	253.1	568.2
83°	719.5	533.7	652.7	1323.3	883.4	262.6	131.7	118.0	164.4	192.7	228.8
84°	405.9	316.7	394.2	970.9	535.3	215.5	107.4	95.5	128.2	154.2	181.1
85°	269.3	102.6	316.7	544.5	390.4	168.3	85.5	75.8	98.0	116.7	149.3
86°	133.7	69.5	239.3	435.9	245.5	121.6	65.6	56.2	75.9	84.8	119.2
87°	92.8	36.4	161.8	327.3	102.3	85.8	48.1	36.6	54.2	60.9	83.6
88°	52.0	3.3	84.3	218.8	69.5	58.4	33.1	20.7	32.5	37.0	48.9
89°	11.5	2.2	7.6	110.2	36.6	31.0	18.1	7.7	14.0	14.8	14.2

REPORT NUMBER: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3475.6	3475.6	3475.6
1°	3524.7	3531.6	3534.6
2°	3586.3	3600.2	3602.8
3°	3653.4	3673.6	3679.8
4°	3728.5	3758.5	3765.5
5°	3812.6	3851.5	3861.8
6°	3905.8	3954.1	3968.1
7°	4005.4	4067.2	4083.7
8°	4113.2	4188.4	4210.3
9°	4232.4	4318.4	4346.9
10°	4358.8	4462.2	4494.7
11°	4496.5	4620.6	4655.3
12°	4645.8	4785.9	4828.4
13°	4806.0	4965.6	5012.0
14°	4975.6	5159.4	5215.0
15°	5152.8	5360.1	5431.1
16°	5334.7	5569.5	5653.9
17°	5522.8	5783.1	5876.2
18°	5707.5	5995.1	6095.2
19°	5887.1	6195.7	6301.1
20°	6060.5	6386.5	6490.7
21°	6222.7	6559.2	6661.5
22°	6374.8	6713.6	6808.7
23°	6519.8	6851.1	6942.2
24°	6654.2	6974.5	7059.5
25°	6780.6	7081.0	7160.3
26°	6893.9	7175.7	7247.2
27°	6999.4	7255.9	7325.4
28°	7092.7	7325.8	7391.3
29°	7177.2	7384.7	7446.0
30°	7249.1	7435.2	7489.1
31°	7315.0	7473.4	7524.5
32°	7370.7	7506.0	7550.1
33°	7418.5	7528.6	7569.6
34°	7457.2	7543.5	7578.5
35°	7489.9	7549.4	7582.5
36°	7514.8	7549.0	7580.3
37°	7530.6	7543.9	7569.8
38°	7541.0	7532.4	7554.2
39°	7544.3	7516.9	7534.9
40°	7542.0	7496.0	7509.4
41°	7532.6	7470.6	7474.4
42°	7517.5	7440.3	7435.8
43°	7496.4	7406.5	7388.7
44°	7468.2	7364.5	7333.6

REPORT NUMBER: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	7436.5	7317.6	7269.7
46°	7397.7	7262.2	7194.6
47°	7353.9	7198.9	7113.9
48°	7304.1	7129.4	7027.5
49°	7248.0	7048.6	6929.2
50°	7184.1	6962.4	6823.2
51°	7110.9	6865.7	6703.6
52°	7028.5	6755.2	6576.7
53°	6936.5	6637.2	6441.6
54°	6840.1	6510.6	6301.7
55°	6735.3	6372.1	6154.1
56°	6619.7	6228.8	5997.1
57°	6497.4	6080.1	5844.5
58°	6367.0	5923.9	5683.0
59°	6235.5	5767.8	5523.5
60°	6102.4	5607.6	5352.0
61°	5964.4	5442.5	5174.2
62°	5830.1	5275.3	4988.2
63°	5697.1	5106.7	4805.0
64°	5568.5	4950.7	4632.6
65°	5445.0	4802.4	4493.3
66°	5328.3	4681.3	4390.9
67°	5217.1	4592.0	4332.9
68°	5117.2	4530.7	4272.7
69°	5030.3	4467.3	4134.9
70°	4964.1	4361.2	3863.1
71°	4895.8	4157.4	3451.1
72°	4808.9	3798.5	3006.3
73°	4675.1	3328.4	2546.9
74°	4431.7	2807.3	2017.2
75°	4047.9	2259.4	1352.9
76°	3546.6	1634.8	736.3
77°	2985.9	939.3	481.5
78°	2284.2	693.5	229.0
79°	1464.9	447.8	182.4
80°	781.4	202.2	157.2
81°	512.4	167.5	135.2
82°	246.7	142.2	115.4
83°	190.5	119.4	97.2
84°	152.9	98.6	80.7
85°	116.2	80.7	64.2
86°	86.4	62.8	47.7
87°	61.7	44.9	32.5
88°	37.2	28.5	18.8
89°	14.6	12.0	8.0

REPORT NUMBER: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444980

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)