

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: P1436760

Luminaire Tested: XAS180-SFPM (5000K-180W-T3-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436760
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/25/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (5000K-180W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24748 (1 lamp)
Luminaire Lumens: 23462.3 lumens
Efficiency: 94.8%
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

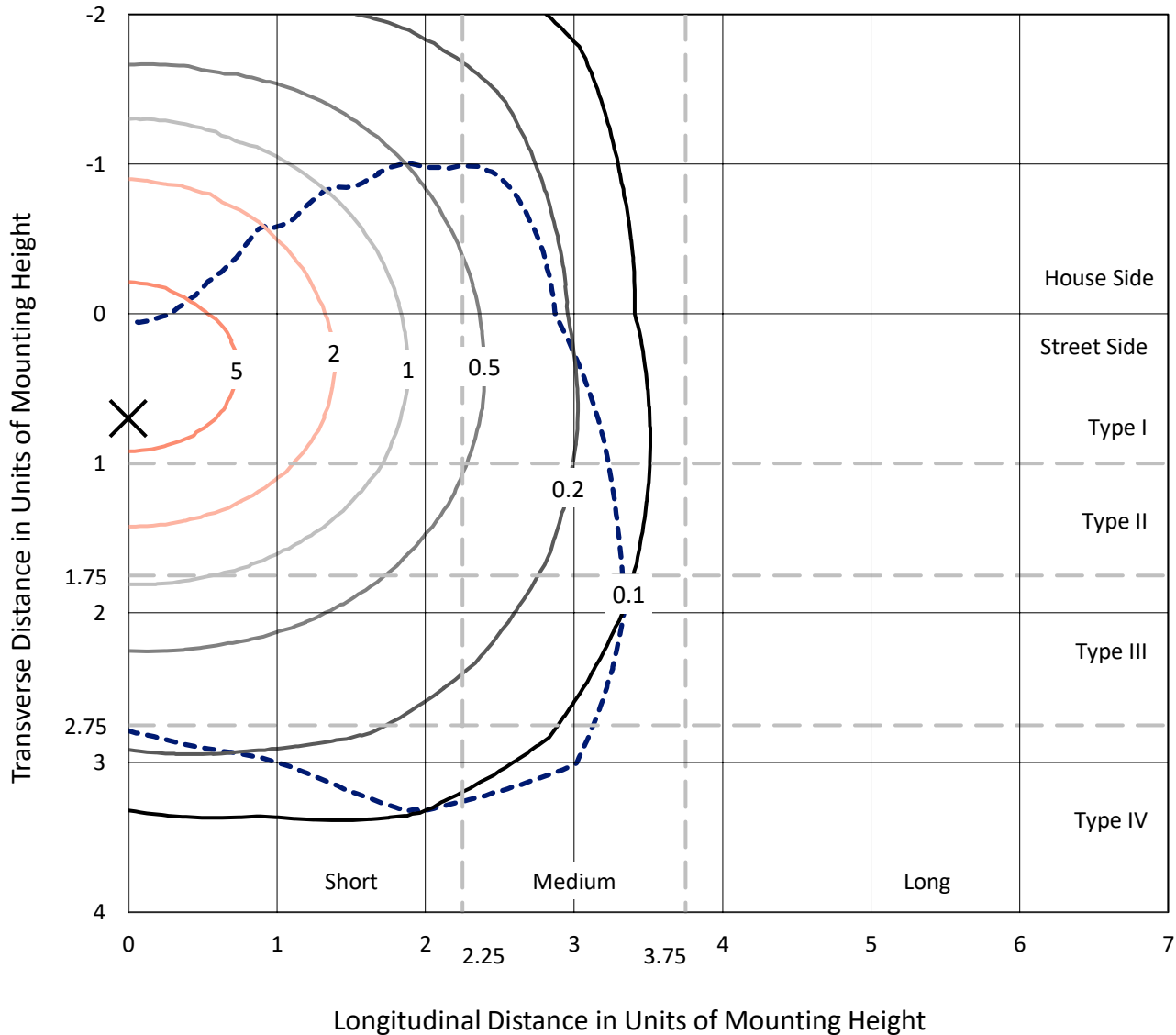
Input Watts (W): 180.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

Iso-Footcandle Lines of Horizontal Illumination

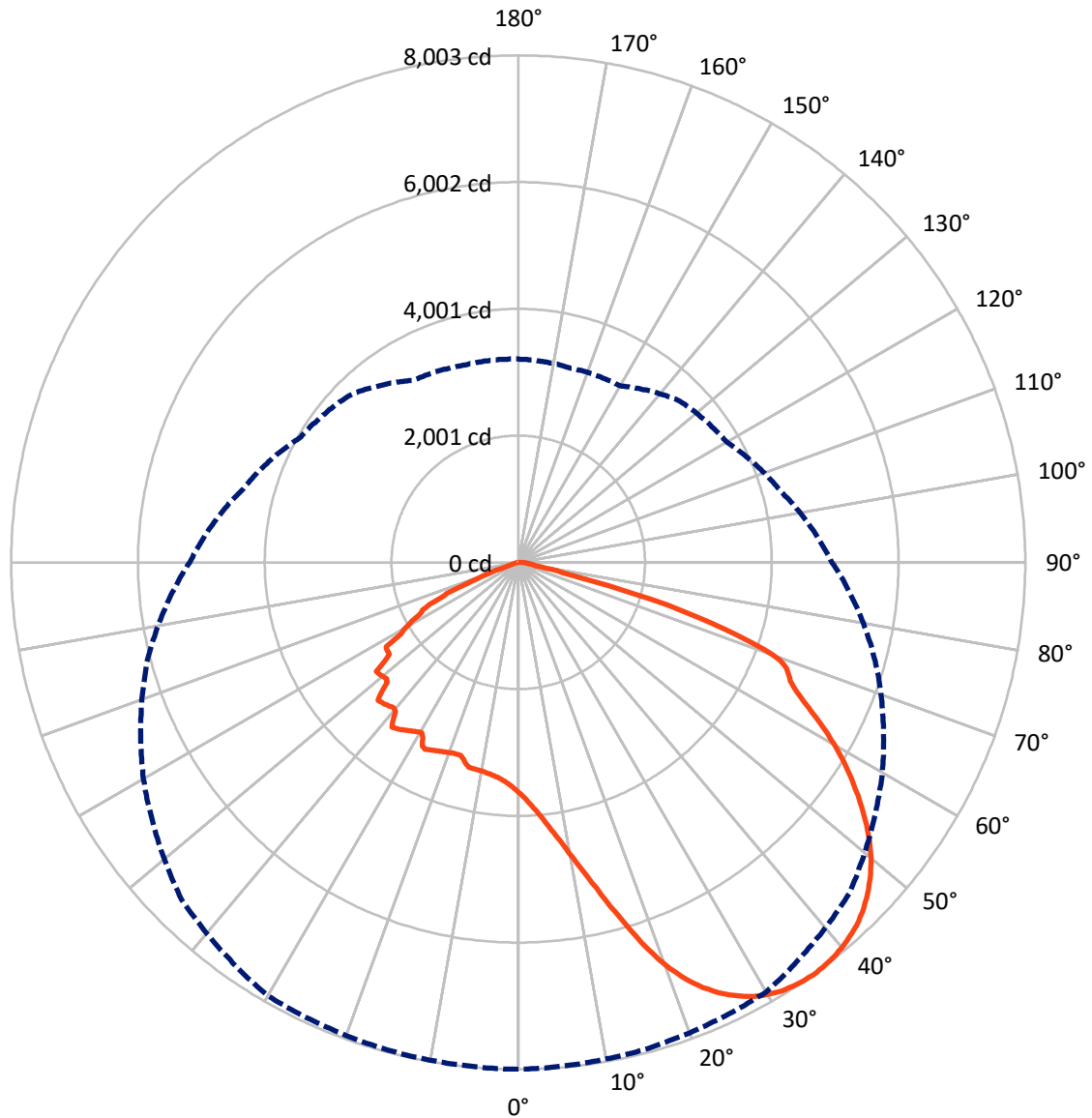
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P1436760
CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 35-Deg Vertical

REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

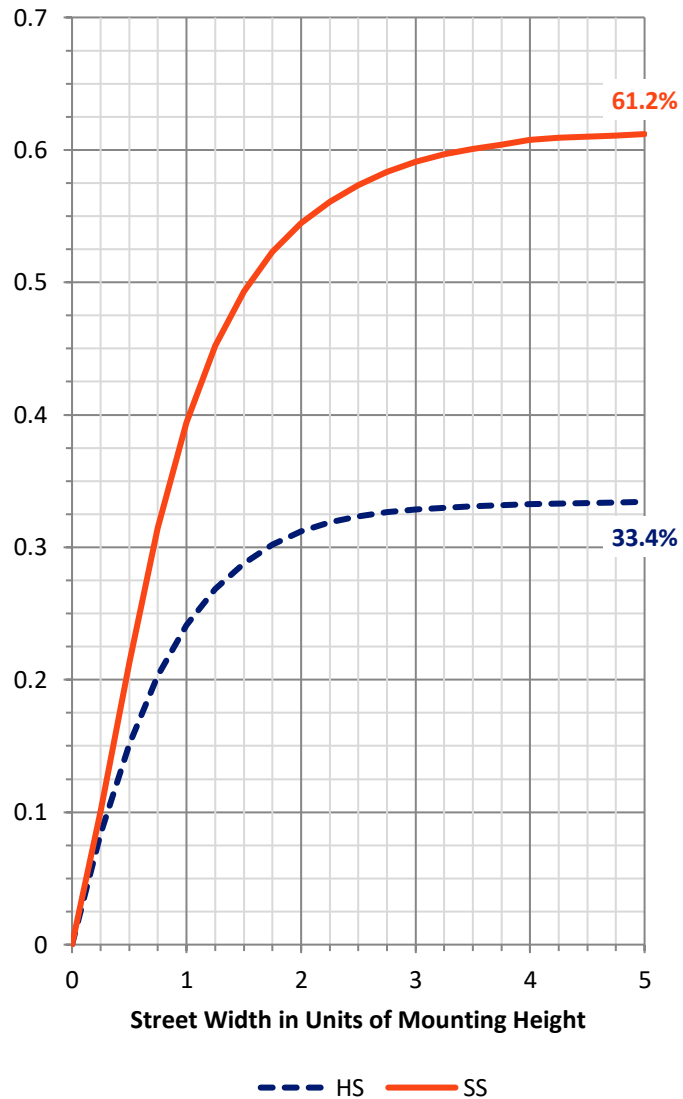
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8311.9	0.0	8311.9
	% Lamp	33.6	0.0	33.6
Street Side	Lumens	15150.4	0.0	15150.4
	% Lamp	61.2	0.0	61.2
Total	Lumens	23462.3	0.0	23462.3
	% Lamp	94.8	0.0	94.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	362.2	1.5	1.5
10°-20°	1223.9	5.2	4.9
20°-30°	2314.2	9.9	9.4
30°-40°	3402.2	14.5	13.7
40°-50°	4297.6	18.3	17.4
50°-60°	4758.7	20.3	19.2
60°-70°	4477.3	19.1	18.1
70°-80°	2440.1	10.4	9.9
80°-90°	186.2	0.8	0.8
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°	23462.3	100.0	94.8
0°-180°	23462.3	100.0	94.8

Coefficient of Utilization



REPORT NUMBER: P1436760

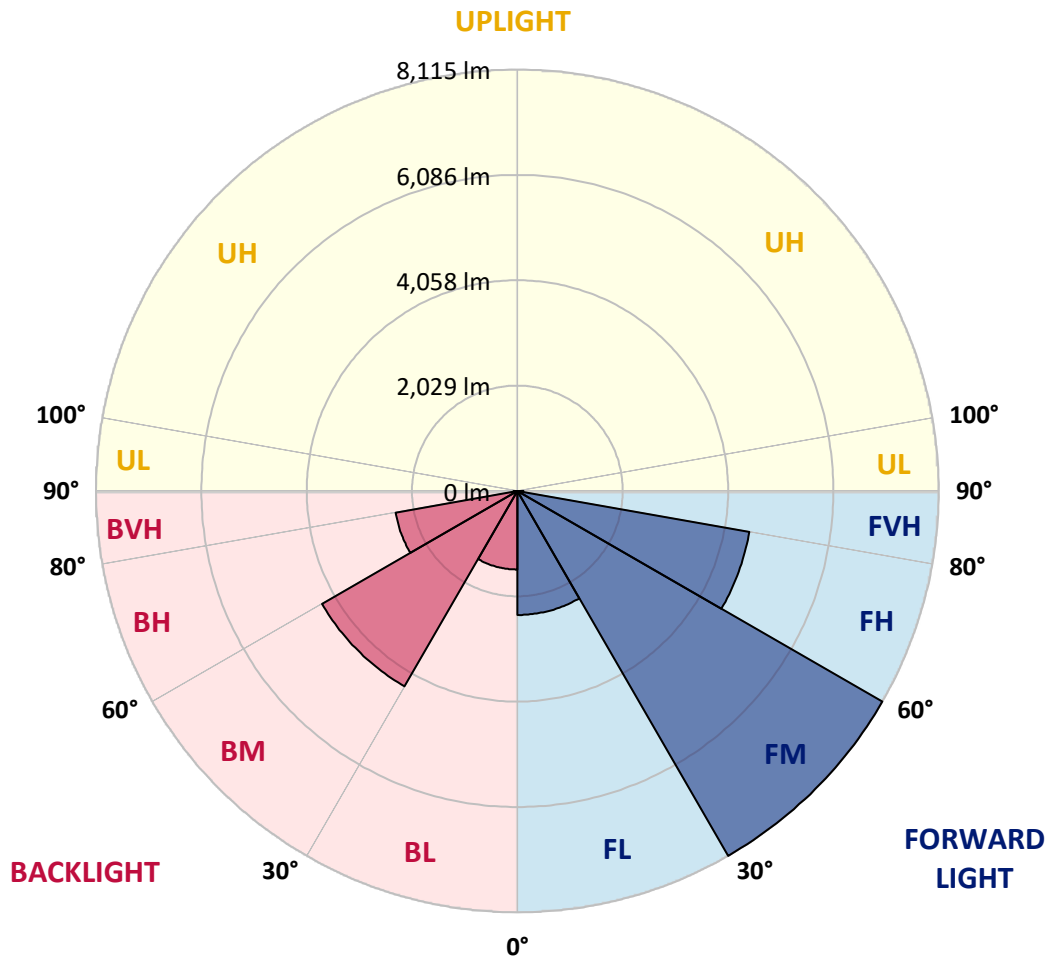
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.2	9.6			
FM (30°-60°)	8115.0	32.8			
FH (60°-80°)	4535.7	18.3			G2/5000
FVH (80°-90°)	112.5	0.5			G2/225
BL (0°-30°)	1513.0	6.1	B3/2500		
BM (30°-60°)	4343.5	17.6	B3/5000		
BH (60°-80°)	2381.7	9.6	B3/2500		G3/2500
BVH (80°-90°)	73.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	1285.7	5.2			

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7
1°	3717.3	3715.8	3711.5	3702.1	3687.8	3672.9	3642.6	3628.5	3617.2	3606.4	3599.2
2°	3792.6	3788.4	3775.9	3753.5	3723.6	3691.2	3644.3	3615.2	3589.5	3569.0	3554.1
3°	3875.0	3869.0	3845.8	3809.5	3764.6	3715.2	3651.4	3606.3	3567.7	3537.3	3514.6
4°	3967.4	3956.4	3922.4	3872.8	3810.8	3743.8	3660.6	3601.6	3550.4	3510.2	3481.5
5°	4072.1	4055.8	4010.7	3942.2	3861.4	3774.5	3672.8	3598.8	3537.1	3488.3	3455.7
6°	4185.0	4164.0	4106.9	4020.6	3917.1	3808.6	3687.7	3599.0	3526.4	3472.2	3434.3
7°	4307.5	4281.0	4212.7	4107.1	3978.2	3847.9	3706.4	3603.4	3519.2	3459.7	3417.6
8°	4441.1	4409.0	4324.5	4198.2	4044.3	3890.2	3730.5	3611.9	3517.4	3449.8	3404.2
9°	4585.8	4546.1	4446.3	4296.1	4117.8	3936.5	3756.7	3622.1	3518.5	3443.6	3393.2
10°	4742.7	4695.8	4578.1	4402.0	4195.1	3986.0	3784.7	3635.2	3523.2	3442.0	3385.0
11°	4912.3	4857.2	4718.5	4514.6	4276.8	4041.4	3816.5	3651.6	3529.7	3443.0	3380.8
12°	5094.1	5029.6	4868.2	4633.4	4362.5	4098.2	3850.6	3669.7	3539.3	3446.1	3380.0
13°	5290.0	5214.9	5028.1	4762.8	4453.6	4159.6	3886.2	3689.5	3550.2	3451.3	3381.9
14°	5500.7	5417.6	5202.0	4896.8	4548.7	4222.5	3922.6	3709.6	3561.3	3458.3	3383.5
15°	5726.7	5627.6	5386.2	5041.5	4648.6	4284.9	3960.7	3732.4	3575.5	3466.5	3388.1
16°	5959.6	5852.3	5574.7	5191.4	4754.9	4352.8	4002.4	3755.8	3591.1	3474.8	3392.9
17°	6196.5	6074.4	5764.7	5346.0	4865.3	4422.6	4044.6	3781.5	3607.7	3484.8	3374.7
18°	6424.1	6289.0	5952.8	5501.1	4982.0	4495.3	4086.7	3802.3	3625.3	3497.0	3315.7
19°	6642.1	6497.4	6140.3	5654.5	5100.8	4568.3	4115.8	3817.5	3634.6	3509.8	3274.1
20°	6842.8	6694.9	6319.2	5805.8	5219.3	4637.8	4152.7	3836.4	3640.5	3519.4	3250.6
21°	7019.9	6871.9	6491.2	5953.7	5341.2	4701.8	4193.7	3868.9	3650.3	3474.2	3260.2
22°	7174.4	7036.9	6651.5	6096.1	5461.0	4775.3	4245.2	3900.4	3672.7	3437.2	3271.9
23°	7317.2	7182.7	6801.8	6231.2	5580.1	4851.5	4297.4	3928.5	3693.9	3415.3	3285.6
24°	7441.1	7313.4	6942.9	6362.0	5683.2	4936.4	4345.5	3951.5	3708.2	3400.6	3301.8
25°	7549.4	7430.2	7071.6	6486.6	5781.5	5026.5	4388.7	3979.5	3723.7	3416.1	3318.3
26°	7641.5	7531.3	7189.5	6606.0	5882.4	5114.9	4435.3	4010.3	3741.8	3424.2	3337.6
27°	7722.7	7620.6	7297.3	6722.2	5978.9	5200.2	4485.5	4047.6	3768.5	3434.2	3356.1
28°	7791.7	7696.2	7397.2	6830.7	6072.7	5274.5	4540.3	4086.4	3784.1	3448.5	3374.0
29°	7849.9	7760.9	7484.7	6931.6	6164.7	5350.9	4600.8	4124.7	3763.5	3473.5	3393.9
30°	7898.1	7814.5	7565.4	7031.0	6257.6	5428.3	4662.6	4164.3	3764.8	3498.5	3410.0
31°	7936.3	7859.1	7634.8	7121.1	6345.1	5504.9	4725.8	4203.1	3753.9	3524.7	3415.0
32°	7963.6	7891.7	7693.5	7196.1	6428.1	5583.5	4789.4	4232.5	3762.7	3549.9	3314.4
33°	7984.2	7916.3	7747.3	7266.8	6503.6	5663.5	4852.3	4248.3	3755.1	3570.3	3230.6
34°	7997.6	7932.3	7790.0	7329.4	6570.8	5742.2	4910.7	4267.0	3775.9	3587.8	3198.0
35°	8002.5	7940.2	7827.8	7388.0	6634.0	5819.8	4952.6	4297.9	3797.9	3603.6	3216.0
36°	8000.3	7943.8	7855.0	7444.1	6696.3	5893.1	4990.1	4330.5	3824.0	3621.9	3234.6
37°	7990.1	7938.3	7876.2	7494.7	6755.8	5964.3	5035.5	4364.4	3849.8	3617.7	3249.0
38°	7974.6	7929.1	7889.8	7538.6	6813.3	6034.4	5091.0	4401.9	3867.9	3518.6	3261.3
39°	7954.1	7913.6	7897.6	7577.3	6868.8	6100.2	5143.3	4434.3	3884.6	3440.3	3279.9
40°	7927.3	7894.5	7894.9	7610.4	6922.2	6152.4	5196.3	4463.7	3913.7	3419.6	3304.0
41°	7891.7	7868.1	7889.0	7641.3	6974.0	6195.8	5249.4	4491.1	3949.5	3445.4	3327.7
42°	7851.9	7836.9	7873.9	7668.4	7024.5	6235.6	5302.5	4511.8	3984.8	3473.1	3348.1
43°	7802.0	7800.1	7853.9	7689.2	7075.2	6281.8	5347.2	4533.5	4020.7	3502.1	3277.3
44°	7743.4	7756.1	7828.0	7701.0	7122.9	6330.3	5388.3	4573.8	4057.9	3529.0	3163.5

REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7677.6	7706.5	7793.6	7704.5	7166.4	6381.4	5423.8	4622.3	4086.6	3546.6	3116.3
46°	7601.0	7648.5	7754.7	7699.5	7210.0	6431.3	5450.7	4671.6	4095.8	3558.4	3133.6
47°	7514.9	7580.5	7711.4	7686.5	7251.4	6480.0	5474.4	4717.0	4096.5	3577.9	3148.1
48°	7424.6	7504.3	7659.1	7666.7	7286.6	6525.0	5496.3	4742.1	4030.5	3601.0	3159.8
49°	7323.3	7418.6	7597.6	7642.8	7313.9	6572.7	5532.2	4758.4	3975.7	3529.0	3176.2
50°	7210.2	7322.9	7527.8	7611.1	7331.2	6613.7	5575.3	4768.8	3956.4	3417.2	3193.9
51°	7087.5	7216.5	7444.6	7571.9	7341.0	6647.9	5618.2	4762.4	3941.8	3369.3	3132.1
52°	6951.9	7100.2	7354.0	7523.0	7345.2	6676.8	5659.0	4795.0	3969.6	3394.9	2962.4
53°	6811.6	6971.7	7254.1	7466.6	7340.5	6702.8	5697.8	4813.9	3986.6	3421.9	2908.7
54°	6662.8	6832.1	7143.4	7405.1	7333.6	6715.5	5732.8	4824.9	4005.3	3441.2	2933.5
55°	6507.2	6686.1	7022.5	7332.6	7316.2	6716.1	5756.5	4847.7	4036.1	3458.9	2961.3
56°	6348.1	6533.4	6899.0	7251.8	7295.8	6712.1	5767.7	4861.2	4069.9	3464.1	2988.6
57°	6187.6	6378.1	6766.1	7166.9	7267.8	6695.7	5765.9	4867.8	4087.2	3344.8	3011.4
58°	6022.4	6214.7	6628.9	7073.2	7229.9	6684.7	5755.3	4880.4	4100.9	3236.4	2858.6
59°	5853.2	6055.6	6488.3	6971.6	7181.5	6671.9	5749.9	4880.3	4033.1	3232.9	2739.6
60°	5674.1	5889.8	6343.0	6864.4	7118.2	6649.2	5739.2	4859.3	3948.5	3271.4	2747.0
61°	5490.1	5718.2	6194.3	6749.9	7042.7	6615.7	5716.5	4832.3	3923.9	3313.2	2756.4
62°	5297.9	5543.3	6050.0	6627.8	6954.9	6567.9	5688.6	4818.2	3935.3	3353.8	2645.3
63°	5110.6	5366.3	5908.2	6502.5	6858.4	6502.2	5640.6	4780.6	3945.7	3272.3	2488.5
64°	4931.2	5195.8	5772.2	6372.8	6744.9	6416.3	5575.3	4736.2	3943.6	3170.2	2456.6
65°	4788.4	5038.9	5637.7	6237.7	6621.2	6313.6	5495.6	4670.4	3900.9	3168.9	2426.6
66°	4681.6	4913.6	5509.1	6103.0	6483.4	6185.9	5400.3	4583.1	3764.5	3188.6	2217.1
67°	4621.5	4819.9	5393.9	5966.3	6327.4	6040.9	5290.7	4470.4	3708.2	3058.1	2183.2
68°	4554.6	4756.3	5291.3	5828.9	6148.0	5875.0	5104.5	4349.7	3729.8	2986.0	2045.3
69°	4404.4	4687.5	5206.7	5694.2	5954.8	5649.8	4800.3	4209.0	3740.2	2976.2	1907.5
70°	4114.7	4563.6	5138.6	5559.1	5760.0	5348.1	4374.9	4003.9	3731.7	2831.6	1769.0
71°	3668.5	4324.7	5074.5	5424.4	5526.1	4967.7	3904.4	3723.6	3611.0	2785.9	1547.1
72°	3211.5	3939.0	4996.3	5282.1	5255.9	4534.1	3479.2	3393.7	3462.6	2679.9	1386.3
73°	2724.0	3450.3	4871.4	5141.3	4944.4	4089.0	3090.9	3070.7	3297.4	2595.6	1236.2
74°	2170.9	2925.8	4635.6	4972.1	4593.0	3661.1	2636.5	2784.6	3105.3	2446.8	1044.6
75°	1476.8	2356.5	4231.0	4734.8	4198.0	3171.5	2007.1	2471.9	2859.4	2297.3	932.4
76°	818.7	1672.0	3708.5	4387.9	3784.3	2508.7	1377.7	1984.2	2639.1	2036.3	834.3
77°	632.7	955.4	3149.5	3891.1	3325.0	1656.0	748.8	1492.8	2421.6	1775.3	735.2
78°	451.0	728.1	2473.6	3209.8	2755.0	921.4	360.6	861.4	2002.8	1513.3	632.4
79°	269.3	502.3	1623.0	2412.4	2008.9	610.6	271.2	624.8	1584.2	1194.3	524.6
80°	238.4	276.6	884.2	1587.6	1238.1	311.7	182.3	388.2	1163.7	909.5	443.5
81°	213.1	239.8	670.6	829.3	901.2	258.3	154.6	152.3	626.4	668.9	398.9
82°	190.2	212.0	464.1	549.9	570.1	220.6	131.1	121.3	460.3	534.0	393.8
83°	168.8	186.8	257.6	287.9	239.1	180.8	109.3	96.0	294.1	423.3	323.7
84°	148.7	163.0	214.9	235.6	193.8	140.9	89.2	76.3	132.6	325.5	249.0
85°	129.3	141.3	174.7	199.8	153.8	110.3	69.7	60.1	113.6	227.7	174.2
86°	110.7	121.4	142.4	166.4	118.4	88.8	52.0	46.2	89.6	130.7	100.0
87°	92.3	102.3	114.6	129.7	91.3	67.4	36.0	34.0	66.1	73.9	62.3
88°	79.8	86.0	89.0	89.7	66.3	46.1	25.3	24.1	45.9	50.7	42.7
89°	67.4	69.8	68.6	63.8	41.5	28.0	14.6	14.2	25.7	27.5	23.2



REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7
1°	3595.4	3595.7	3599.8	3607.7	3618.9	3630.2	3646.3	3648.8	3664.9	3681.1	3695.4
2°	3546.0	3545.6	3551.8	3566.3	3585.0	3610.0	3638.6	3656.7	3689.6	3721.1	3750.1
3°	3502.8	3501.2	3509.5	3527.8	3556.3	3591.4	3634.2	3668.5	3716.8	3766.8	3810.8
4°	3466.0	3464.1	3474.5	3497.2	3532.5	3578.9	3634.0	3683.0	3749.8	3817.3	3878.3
5°	3438.5	3435.4	3446.1	3473.0	3513.3	3568.9	3636.7	3701.7	3786.2	3872.6	3952.0
6°	3414.4	3409.9	3423.2	3454.2	3499.3	3562.0	3642.8	3723.9	3826.8	3933.3	4031.5
7°	3393.9	3389.0	3403.5	3438.0	3490.8	3560.9	3652.9	3750.4	3871.2	4000.1	4122.0
8°	3378.3	3372.5	3387.6	3426.8	3485.0	3563.1	3666.4	3778.4	3919.7	4073.6	4217.7
9°	3364.1	3358.7	3375.6	3418.7	3482.5	3568.0	3681.1	3808.6	3972.0	4151.1	4321.3
10°	3354.2	3347.1	3366.4	3414.4	3482.9	3574.8	3698.3	3843.3	4027.9	4233.7	4431.3
11°	3346.3	3339.0	3360.8	3412.6	3486.8	3586.0	3719.3	3882.3	4090.5	4321.4	4548.7
12°	3341.6	3334.3	3357.1	3413.8	3493.9	3599.1	3743.6	3921.7	4153.2	4415.1	4673.9
13°	3341.0	3332.4	3356.8	3416.7	3503.9	3615.1	3769.0	3964.1	4220.6	4514.1	4808.9
14°	3341.2	3331.2	3359.0	3423.1	3516.0	3632.6	3796.3	4008.0	4289.1	4617.5	4951.1
15°	3337.5	3290.5	3355.9	3430.4	3528.7	3652.8	3824.9	4055.8	4361.6	4729.1	5102.9
16°	3266.8	3223.3	3290.8	3438.1	3542.3	3675.0	3855.4	4102.7	4437.6	4842.3	5262.8
17°	3214.3	3183.7	3240.3	3425.1	3557.3	3697.7	3888.8	4152.8	4515.3	4963.9	5426.8
18°	3186.8	3176.6	3213.4	3367.5	3575.2	3721.4	3918.2	4202.8	4597.2	5090.6	5592.0
19°	3190.8	3181.4	3217.2	3330.2	3591.2	3738.9	3938.6	4244.9	4680.9	5218.9	5756.7
20°	3198.0	3188.3	3225.2	3311.1	3605.7	3750.8	3963.3	4286.7	4767.0	5349.8	5915.9
21°	3207.4	3199.2	3235.9	3319.6	3575.9	3765.9	3998.4	4334.5	4845.1	5483.6	6070.0
22°	3220.9	3211.3	3249.8	3334.2	3532.8	3793.6	4037.4	4389.8	4924.7	5613.0	6215.7
23°	3234.9	3227.3	3267.1	3350.5	3512.8	3822.5	4077.3	4450.1	5012.8	5741.8	6354.8
24°	3250.2	3242.8	3285.1	3369.2	3506.8	3846.6	4109.6	4510.5	5105.6	5864.5	6486.8
25°	3266.3	3257.6	3302.2	3389.2	3522.9	3865.2	4140.1	4565.4	5203.5	5973.0	6609.9
26°	3283.1	3275.1	3320.7	3412.3	3537.9	3884.5	4173.3	4617.1	5303.2	6072.1	6727.9
27°	3299.8	3293.2	3338.6	3433.6	3549.8	3908.5	4209.7	4672.4	5401.7	6170.8	6841.6
28°	3317.2	3274.9	3357.1	3455.5	3564.7	3928.7	4252.4	4732.3	5494.0	6265.6	6950.4
29°	3264.6	3158.5	3316.4	3477.0	3589.4	3922.4	4296.0	4795.5	5575.3	6357.5	7053.3
30°	3155.1	3095.9	3205.0	3495.1	3616.8	3917.5	4339.4	4862.0	5661.0	6449.6	7149.5
31°	3101.7	3103.7	3150.7	3502.3	3644.8	3917.1	4382.4	4930.9	5744.6	6536.5	7241.3
32°	3112.3	3128.1	3159.4	3421.2	3674.0	3918.4	4416.9	4999.5	5824.1	6619.4	7324.6
33°	3134.2	3153.6	3181.2	3338.7	3700.2	3917.6	4439.0	5066.8	5906.5	6699.4	7397.6
34°	3155.8	3179.9	3203.6	3302.4	3721.4	3938.6	4461.3	5133.8	5985.2	6769.2	7460.2
35°	3177.9	3208.9	3226.2	3316.5	3742.2	3961.8	4495.5	5187.6	6065.0	6830.6	7519.9
36°	3202.2	3235.5	3250.4	3339.1	3758.7	3987.8	4532.3	5232.0	6139.7	6891.3	7576.5
37°	3223.6	3260.5	3274.2	3355.9	3768.3	4017.0	4569.7	5282.1	6211.8	6949.4	7629.4
38°	3244.6	3280.5	3296.8	3370.1	3672.1	4039.5	4612.2	5338.7	6281.4	7008.2	7673.7
39°	3259.8	3160.6	3314.9	3385.7	3596.8	4059.3	4654.0	5394.8	6347.4	7063.6	7712.0
40°	3136.1	3045.6	3205.2	3410.0	3574.3	4088.0	4689.3	5450.2	6403.7	7115.5	7745.0
41°	3024.4	3021.2	3088.0	3436.1	3596.6	4126.0	4720.4	5506.2	6447.2	7167.4	7773.8
42°	2998.7	3038.4	3055.5	3459.8	3624.8	4165.8	4742.5	5561.5	6486.4	7219.0	7795.9
43°	3019.0	3057.3	3076.2	3413.4	3654.9	4205.1	4766.7	5613.3	6528.3	7267.8	7813.6
44°	3041.3	3075.2	3099.9	3291.5	3684.0	4245.7	4812.7	5660.4	6571.6	7312.1	7824.2



REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3064.2	3093.1	3122.8	3234.1	3704.8	4278.2	4864.3	5702.2	6618.0	7353.5	7824.2
46°	3087.5	3103.7	3146.4	3246.8	3718.6	4290.7	4916.2	5729.7	6666.5	7390.4	7814.7
47°	3109.7	2978.7	3165.5	3260.6	3736.6	4299.0	4967.1	5752.2	6711.7	7425.3	7795.9
48°	2990.9	2807.4	3065.9	3272.6	3760.8	4264.3	5006.4	5771.6	6754.0	7455.4	7773.4
49°	2823.7	2774.4	2895.4	3288.6	3715.3	4206.8	5017.5	5805.0	6792.0	7475.8	7744.1
50°	2794.5	2788.1	2854.6	3304.4	3599.1	4166.0	5025.5	5845.0	6826.0	7484.8	7708.3
51°	2817.5	2803.5	2877.5	3261.4	3533.8	4148.0	5018.6	5880.7	6850.3	7482.7	7666.7
52°	2841.8	2818.7	2899.0	3089.7	3553.8	4168.7	5020.2	5914.5	6868.8	7474.8	7614.8
53°	2863.5	2825.6	2919.6	3023.3	3581.7	4185.6	5040.3	5942.7	6879.0	7458.4	7557.6
54°	2874.3	2622.2	2931.6	3046.5	3599.9	4201.3	5045.5	5965.8	6874.5	7440.7	7490.4
55°	2690.0	2496.9	2748.2	3073.7	3617.0	4221.6	5049.0	5977.0	6859.3	7414.4	7419.0
56°	2553.5	2488.0	2610.0	3101.8	3622.7	4252.8	5049.5	5971.0	6833.4	7384.8	7340.5
57°	2544.4	2492.4	2595.4	3122.0	3534.2	4265.0	5042.9	5950.6	6799.3	7346.8	7252.5
58°	2548.3	2471.5	2598.4	2977.2	3407.6	4271.0	5040.2	5924.2	6763.3	7293.9	7158.6
59°	2500.6	2178.3	2559.1	2847.7	3394.8	4223.8	5032.7	5898.1	6726.7	7234.2	7056.8
60°	2242.5	2098.1	2298.7	2848.4	3431.8	4119.4	4997.6	5867.2	6681.1	7164.7	6945.0
61°	2192.6	1974.9	2242.2	2856.6	3471.4	4068.8	4955.6	5827.8	6625.3	7082.1	6825.9
62°	2186.0	1851.6	2228.3	2761.7	3506.5	4067.6	4931.3	5778.6	6557.5	6985.3	6702.1
63°	2058.8	1729.7	2097.5	2588.4	3434.6	4066.3	4888.1	5713.3	6474.3	6872.1	6572.5
64°	1931.5	1694.7	1966.9	2554.1	3311.8	4055.1	4831.1	5627.8	6373.7	6750.0	6441.3
65°	1804.0	1548.3	1835.2	2532.7	3293.8	4008.4	4751.1	5522.0	6249.6	6616.0	6299.7
66°	1604.8	1294.8	1640.6	2307.8	3294.7	3872.9	4651.0	5395.7	6102.1	6471.0	6150.7
67°	1402.2	1234.5	1431.0	2259.2	3158.9	3784.2	4531.5	5243.2	5941.1	6304.2	6002.4
68°	1261.4	862.0	1294.3	2170.5	3082.7	3787.8	4368.4	4979.7	5735.6	6119.7	5855.5
69°	1027.8	711.8	1055.9	1980.9	3053.7	3780.1	4171.8	4590.9	5450.9	5916.6	5713.6
70°	823.1	490.4	846.7	1791.2	2898.9	3750.0	3899.6	4081.7	5092.9	5692.7	5562.3
71°	566.0	269.1	565.5	1602.1	2829.8	3597.8	3558.2	3611.0	4644.2	5427.6	5403.8
72°	312.7	49.3	292.4	1440.1	2710.9	3401.6	3194.3	3179.5	4167.9	5127.1	5244.9
73°	263.3	0.6	237.1	1270.6	2589.8	3199.2	2841.7	2749.7	3701.7	4764.2	5067.1
74°	213.9	0.4	182.4	1044.9	2410.4	2976.7	2514.2	2238.5	3239.8	4351.9	4859.3
75°	164.7	0.5	158.2	916.9	2210.0	2715.8	2020.0	1568.3	2689.2	3895.0	4569.5
76°	125.3	0.5	126.1	815.1	1926.9	2456.1	1525.8	908.5	1946.2	3412.9	4180.6
77°	88.2	0.6	99.8	718.6	1643.7	2081.4	1031.4	583.7	1159.3	2900.0	3637.8
78°	65.9	0.6	80.8	622.7	1360.8	1706.9	530.9	266.7	867.4	2271.8	2934.1
79°	65.0	0.7	80.3	517.7	1088.5	1329.5	346.7	203.5	580.0	1536.2	2127.0
80°	87.0	0.8	96.9	448.2	845.5	760.3	164.6	172.6	292.5	897.7	1323.5
81°	106.5	0.9	100.2	416.5	635.3	551.4	131.9	146.9	248.7	595.9	969.9
82°	94.0	1.0	62.5	388.2	492.9	342.5	108.5	123.5	212.4	298.6	625.1
83°	58.7	1.2	44.4	294.3	370.0	134.9	88.5	102.7	175.3	228.0	280.3
84°	43.0	1.3	26.3	200.5	247.1	112.3	71.2	84.1	138.7	187.8	233.1
85°	27.3	1.4	8.8	107.5	125.6	88.6	56.6	65.5	108.2	147.5	198.0
86°	12.0	1.6	7.9	54.6	69.9	65.9	43.6	47.0	86.9	114.4	164.9
87°	8.9	1.8	7.7	38.5	39.8	47.4	32.1	31.5	65.8	88.2	128.1
88°	6.5	1.9	6.8	22.4	27.8	33.1	22.7	18.4	44.7	64.1	89.0
89°	5.0	2.1	4.3	6.4	15.8	18.8	13.2	7.8	27.3	40.0	63.5



REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3651.7	3651.7	3651.7
1°	3706.0	3713.7	3717.3
2°	3772.2	3787.1	3792.6
3°	3844.9	3867.4	3875.0
4°	3926.5	3958.0	3967.4
5°	4015.2	4058.6	4072.1
6°	4113.3	4168.8	4185.0
7°	4221.1	4286.3	4307.5
8°	4337.4	4415.2	4441.1
9°	4463.0	4555.9	4585.8
10°	4594.5	4708.2	4742.7
11°	4741.5	4870.6	4912.3
12°	4897.4	5048.5	5094.1
13°	5065.4	5235.9	5290.0
14°	5245.0	5438.2	5500.7
15°	5433.1	5652.1	5726.7
16°	5624.6	5870.7	5959.6
17°	5819.3	6095.3	6196.5
18°	6015.0	6318.0	6424.1
19°	6204.4	6532.6	6642.1
20°	6387.3	6731.5	6842.8
21°	6558.8	6912.8	7019.9
22°	6718.8	7078.2	7174.4
23°	6872.3	7222.6	7317.2
24°	7014.7	7351.5	7441.1
25°	7146.4	7464.7	7549.4
26°	7266.7	7564.4	7641.5
27°	7379.9	7650.6	7722.7
28°	7477.5	7725.6	7791.7
29°	7567.0	7787.7	7849.9
30°	7644.5	7839.1	7898.1
31°	7714.4	7882.7	7936.3
32°	7774.7	7917.6	7963.6
33°	7826.4	7942.2	7984.2
34°	7867.3	7959.2	7997.6
35°	7901.0	7968.0	8002.5
36°	7927.3	7967.1	8000.3
37°	7947.1	7962.0	7990.1
38°	7959.0	7952.4	7974.6
39°	7963.2	7935.0	7954.1
40°	7960.7	7914.3	7927.3
41°	7952.7	7889.5	7891.7
42°	7937.4	7858.3	7851.9
43°	7914.9	7822.3	7802.0
44°	7887.7	7779.8	7743.4



REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	7853.6	7730.5	7677.6
46°	7815.1	7674.4	7601.0
47°	7769.3	7607.4	7514.9
48°	7719.9	7533.9	7424.6
49°	7660.9	7451.1	7323.3
50°	7591.2	7360.1	7210.2
51°	7511.5	7257.8	7087.5
52°	7419.0	7142.0	6951.9
53°	7318.9	7020.4	6811.6
54°	7209.4	6885.1	6662.8
55°	7095.9	6745.3	6507.2
56°	6972.2	6592.7	6348.1
57°	6842.7	6437.5	6187.6
58°	6705.2	6277.2	6022.4
59°	6562.6	6114.8	5853.2
60°	6418.7	5947.0	5674.1
61°	6274.9	5776.5	5490.1
62°	6130.7	5600.4	5297.9
63°	5991.7	5430.3	5110.6
64°	5861.1	5265.7	4931.2
65°	5734.2	5114.0	4788.4
66°	5611.3	4986.4	4681.6
67°	5494.4	4893.9	4621.5
68°	5386.7	4829.6	4554.6
69°	5291.0	4760.6	4404.4
70°	5215.7	4647.9	4114.7
71°	5138.7	4427.6	3668.5
72°	5043.8	4047.7	3211.5
73°	4903.8	3555.2	2724.0
74°	4647.7	3011.7	2170.9
75°	4239.6	2438.1	1476.8
76°	3720.0	1784.1	818.7
77°	3130.7	1064.2	632.7
78°	2425.5	798.8	451.0
79°	1594.2	541.2	269.3
80°	895.1	283.7	238.4
81°	673.9	247.3	213.1
82°	468.7	218.5	190.2
83°	263.5	192.3	168.8
84°	218.2	167.7	148.7
85°	176.9	145.1	129.3
86°	144.6	124.3	110.7
87°	115.9	104.6	92.3
88°	88.7	87.6	79.8
89°	68.6	70.7	67.4



REPORT NUMBER: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

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: P1436760

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)