

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: P1445029

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

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445029
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-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24748 (1 lamp)
Luminaire Lumens: 23790 lumens
Efficiency: 96.1%
Efficacy: 134.3 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): 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

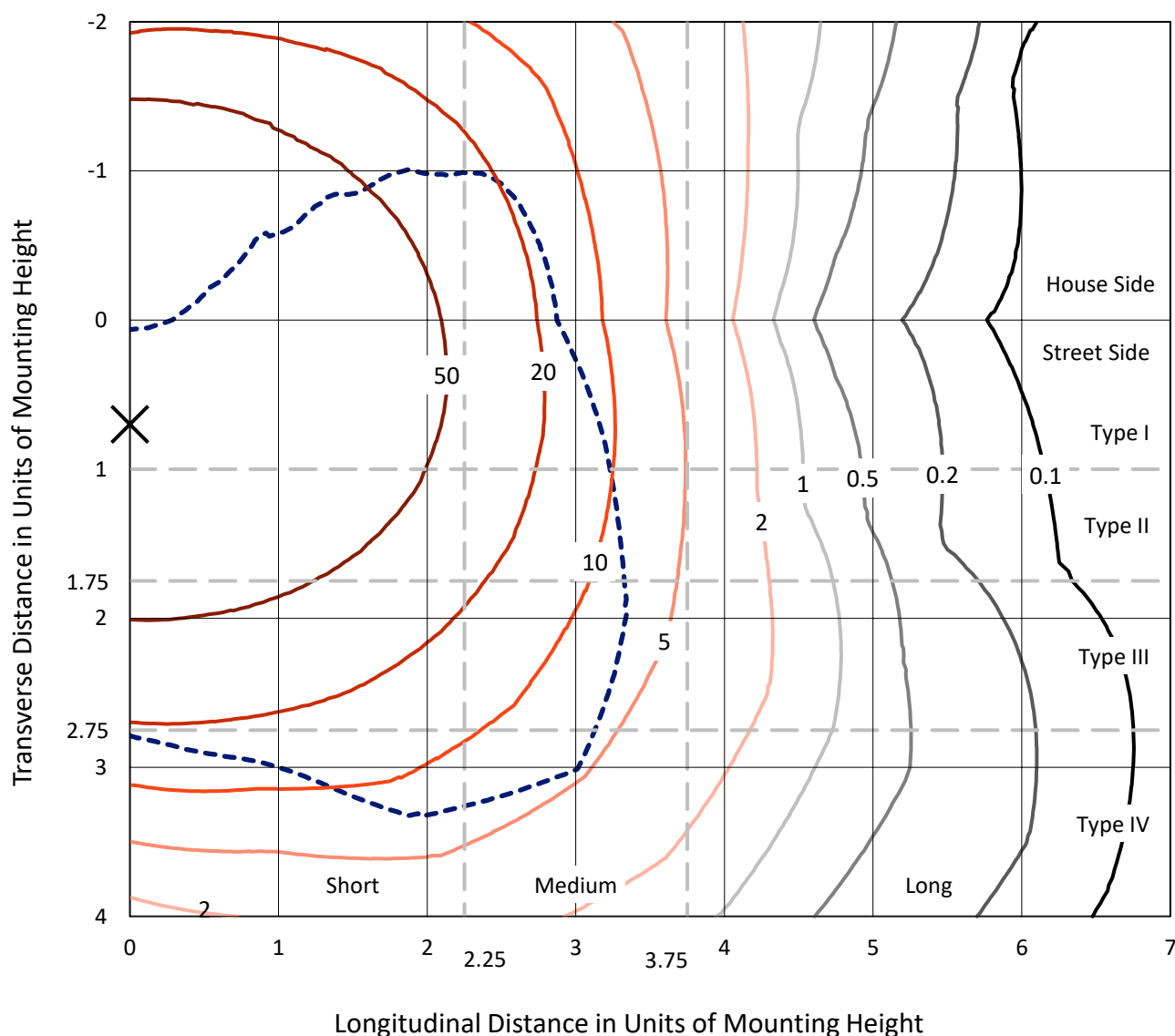
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

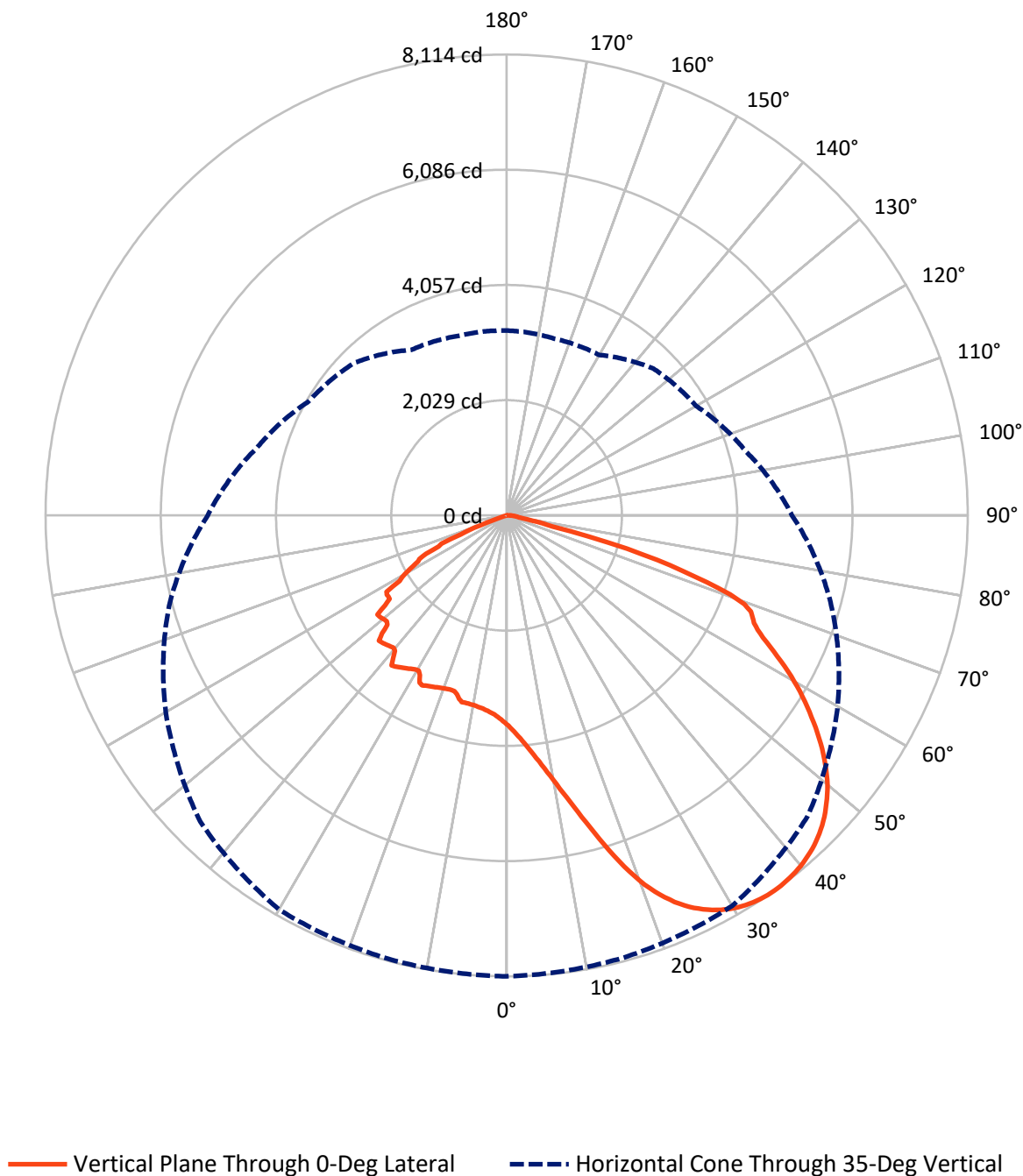


Based on 3 foot mounting height. Maximum calculated value = 642 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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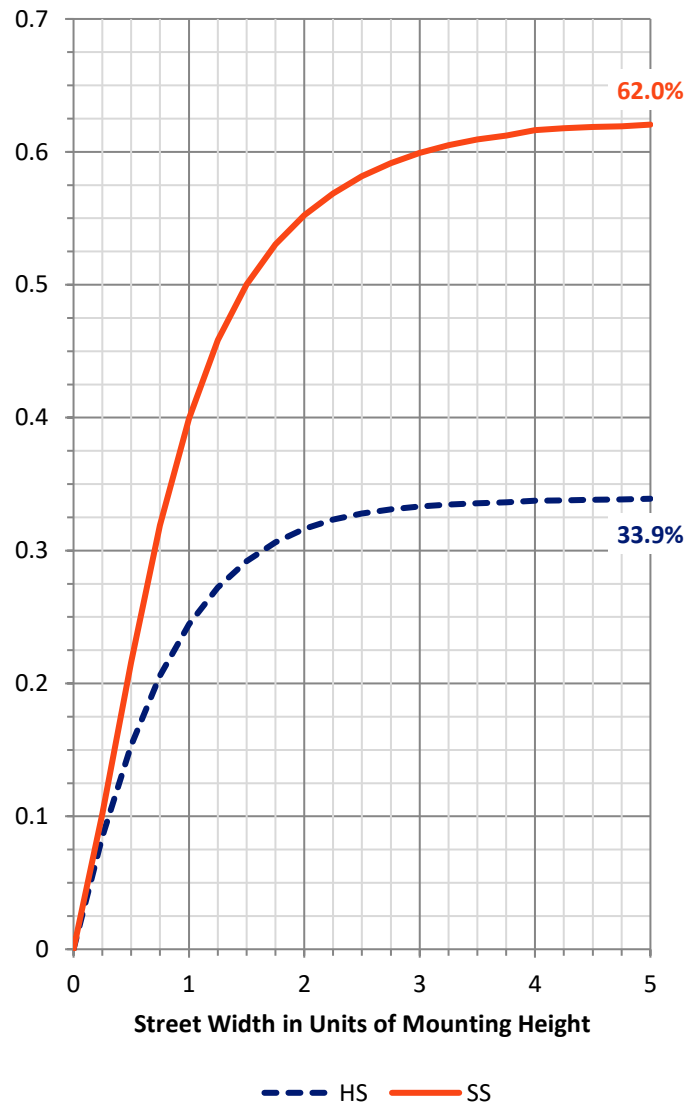
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8428.0	0.0	8428.0
	% Lamp	34.1	0.0	34.1
Street Side	Lumens	15362.1	0.0	15362.1
	% Lamp	62.1	0.0	62.1
Total	Lumens	23790.0	0.0	23790.0
	% Lamp	96.1	0.0	96.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	367.3	1.5	1.5
10°-20°	1241.0	5.2	5.0
20°-30°	2346.5	9.9	9.5
30°-40°	3449.8	14.5	13.9
40°-50°	4357.6	18.3	17.6
50°-60°	4825.1	20.3	19.5
60°-70°	4539.8	19.1	18.3
70°-80°	2474.2	10.4	10.0
80°-90°	188.8	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°	23790.0	100.0	96.1
0°-180°	23790.0	100.0	96.1

Coefficient of Utilization



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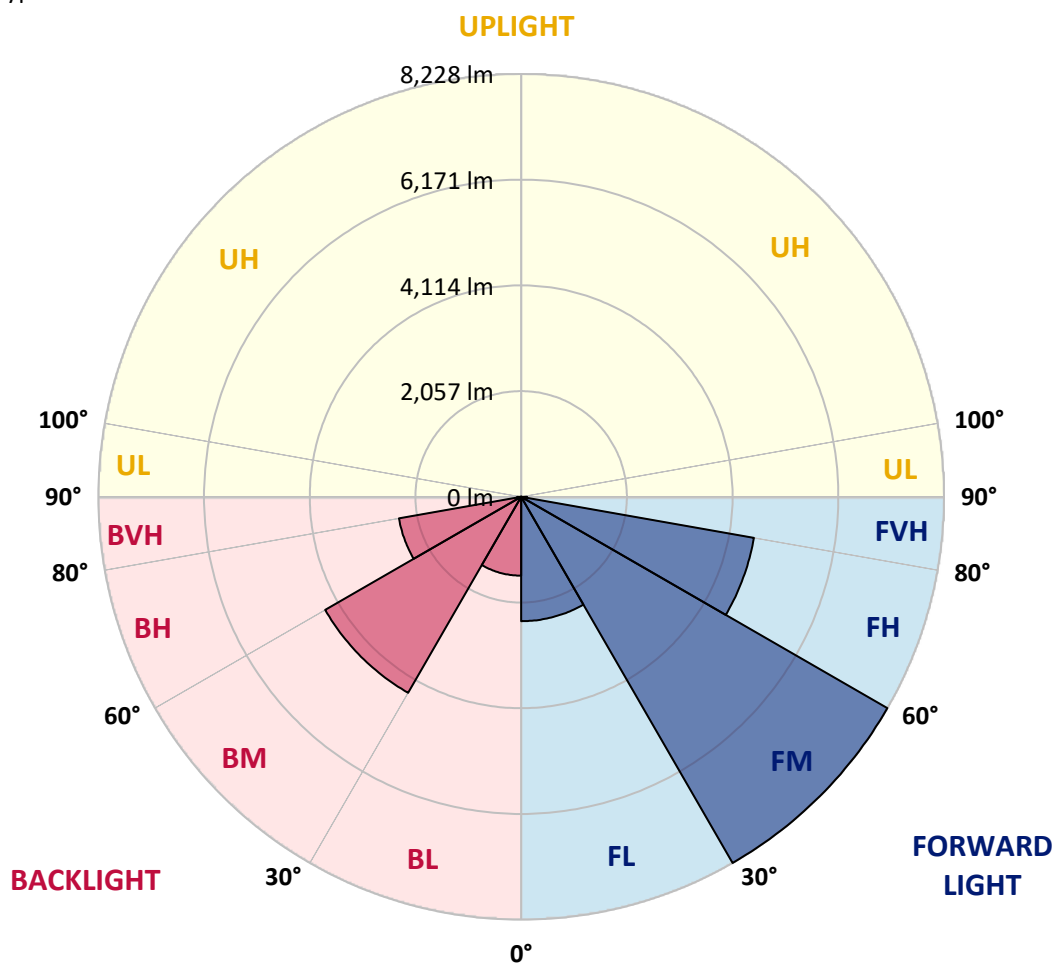
CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2420.5	9.8			
FM	(30°-60°)	8228.4	33.2			
FH	(60°-80°)	4599.0	18.6			G2/5000
FVH	(80°-90°)	114.1	0.5			G2/225
BL	(0°-30°)	1534.2	6.2	B3/2500		
BM	(30°-60°)	4404.1	17.8	B3/5000		
BH	(60°-80°)	2415.0	9.8	B3/2500		G3/2500
BVH	(80°-90°)	74.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		958.0	3.9			

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7
1°	3769.2	3767.7	3763.3	3753.8	3739.3	3724.2	3693.4	3679.2	3667.7	3656.7	3649.4
2°	3845.6	3841.3	3828.6	3805.9	3775.6	3742.8	3695.2	3665.7	3639.6	3618.9	3603.8
3°	3929.2	3923.0	3899.5	3862.7	3817.2	3767.1	3702.4	3656.6	3617.5	3586.7	3563.7
4°	4022.8	4011.6	3977.2	3926.8	3864.0	3796.1	3711.7	3651.9	3600.0	3559.3	3530.1
5°	4129.0	4112.5	4066.7	3997.2	3915.3	3827.3	3724.1	3649.0	3586.6	3537.0	3504.0
6°	4243.5	4222.2	4164.3	4076.7	3971.8	3861.8	3739.2	3649.2	3575.7	3520.7	3482.3
7°	4367.7	4340.8	4271.6	4164.5	4033.7	3901.7	3758.1	3653.7	3568.4	3508.0	3465.3
8°	4503.1	4470.6	4384.9	4256.9	4100.7	3944.5	3782.6	3662.3	3566.6	3498.0	3451.8
9°	4649.8	4609.6	4508.4	4356.1	4175.3	3991.4	3809.2	3672.7	3567.6	3491.7	3440.6
10°	4808.9	4761.3	4642.0	4463.4	4253.7	4041.7	3837.5	3686.0	3572.4	3490.0	3432.3
11°	4980.9	4925.0	4784.4	4577.6	4336.5	4097.9	3869.8	3702.6	3579.0	3491.1	3428.0
12°	5165.3	5099.8	4936.2	4698.1	4423.4	4155.4	3904.4	3720.9	3588.8	3494.3	3427.2
13°	5363.9	5287.7	5098.4	4829.3	4515.8	4217.7	3940.5	3741.0	3599.8	3499.5	3429.1
14°	5577.6	5493.3	5274.7	4965.2	4612.2	4281.5	3977.4	3761.4	3611.1	3506.6	3430.7
15°	5806.7	5706.2	5461.4	5111.9	4713.6	4344.7	4016.1	3784.5	3625.5	3514.9	3435.4
16°	6042.8	5934.0	5652.5	5263.9	4821.3	4413.5	4058.3	3808.2	3641.3	3523.3	3440.2
17°	6283.1	6159.2	5845.2	5420.7	4933.2	4484.4	4101.1	3834.3	3658.1	3533.5	3421.9
18°	6513.9	6376.9	6035.9	5578.0	5051.6	4558.1	4143.8	3855.4	3676.0	3545.9	3362.0
19°	6734.9	6588.2	6226.1	5733.5	5172.0	4632.1	4173.3	3870.8	3685.4	3558.9	3319.8
20°	6938.4	6788.4	6407.4	5886.9	5292.2	4702.6	4210.7	3890.0	3691.3	3568.6	3296.0
21°	7117.9	6967.9	6581.8	6036.9	5415.8	4767.5	4252.2	3922.9	3701.2	3522.7	3305.8
22°	7274.6	7135.1	6744.4	6181.3	5537.3	4842.0	4304.5	3954.9	3724.0	3485.2	3317.6
23°	7419.4	7283.0	6896.8	6318.2	5658.0	4919.3	4357.4	3983.4	3745.5	3463.0	3331.5
24°	7545.0	7415.5	7039.9	6450.9	5762.6	5005.3	4406.1	4006.7	3760.0	3448.1	3348.0
25°	7654.8	7534.0	7170.4	6577.2	5862.3	5096.7	4450.0	4035.1	3775.7	3463.8	3364.7
26°	7748.2	7636.5	7289.9	6698.2	5964.6	5186.3	4497.3	4066.3	3794.1	3472.1	3384.2
27°	7830.5	7727.0	7399.2	6816.1	6062.4	5272.8	4548.1	4104.1	3821.1	3482.2	3402.9
28°	7900.5	7803.7	7500.5	6926.1	6157.5	5348.2	4603.7	4143.5	3837.0	3496.7	3421.1
29°	7959.5	7869.3	7589.3	7028.4	6250.9	5425.6	4665.0	4182.3	3816.1	3522.1	3441.3
30°	8008.5	7923.7	7671.1	7129.2	6345.0	5504.1	4727.7	4222.4	3817.4	3547.3	3457.6
31°	8047.1	7968.9	7741.4	7220.6	6433.7	5581.8	4791.8	4261.9	3806.3	3574.0	3462.7
32°	8074.8	8001.9	7800.9	7296.6	6517.9	5661.5	4856.3	4291.7	3815.2	3599.4	3360.7
33°	8095.8	8026.8	7855.5	7368.3	6594.4	5742.6	4920.0	4307.6	3807.6	3620.2	3275.8
34°	8109.3	8043.1	7898.8	7431.8	6662.6	5822.4	4979.3	4326.6	3828.6	3637.9	3242.7
35°	8114.3	8051.1	7937.1	7491.2	6726.7	5901.1	5021.8	4357.9	3850.9	3653.9	3261.0
36°	8112.1	8054.8	7964.7	7548.1	6789.8	5975.4	5059.8	4391.0	3877.4	3672.5	3279.8
37°	8101.7	8049.2	7986.3	7599.3	6850.1	6047.6	5105.9	4425.4	3903.6	3668.3	3294.4
38°	8085.9	8039.9	8000.0	7643.9	6908.5	6118.7	5162.1	4463.3	3921.9	3567.7	3306.8
39°	8065.2	8024.1	8007.9	7683.2	6964.7	6185.4	5215.2	4496.2	3938.9	3488.3	3325.8
40°	8038.0	8004.8	8005.2	7716.7	7018.9	6238.4	5268.9	4526.0	3968.4	3467.4	3350.2
41°	8001.9	7978.0	7999.1	7748.1	7071.4	6282.4	5322.7	4553.8	4004.7	3493.5	3374.2
42°	7961.6	7946.4	7983.9	7775.5	7122.6	6322.7	5376.6	4574.9	4040.5	3521.6	3394.9
43°	7911.0	7909.1	7963.6	7796.6	7174.0	6369.6	5421.9	4596.9	4076.8	3551.0	3323.1
44°	7851.6	7864.5	7937.3	7808.5	7222.4	6418.7	5463.6	4637.7	4114.6	3578.3	3207.7

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7784.9	7814.2	7902.4	7812.1	7266.5	6470.5	5499.6	4686.8	4143.7	3596.2	3159.8
46°	7707.2	7755.4	7863.0	7807.1	7310.7	6521.2	5526.8	4736.8	4153.0	3608.1	3177.3
47°	7619.8	7686.3	7819.1	7793.9	7352.7	6570.5	5550.8	4782.9	4153.7	3627.9	3192.0
48°	7528.3	7609.1	7766.1	7773.8	7388.3	6616.1	5573.1	4808.3	4086.8	3651.3	3204.0
49°	7425.6	7522.2	7703.7	7749.6	7416.0	6664.5	5609.5	4824.9	4031.2	3578.3	3220.6
50°	7310.9	7425.2	7633.0	7717.4	7433.6	6706.1	5653.2	4835.4	4011.6	3465.0	3238.5
51°	7186.5	7317.3	7548.6	7677.7	7443.5	6740.7	5696.7	4828.9	3996.8	3416.3	3175.9
52°	7049.0	7199.4	7456.7	7628.1	7447.8	6770.0	5738.0	4862.0	4025.0	3442.4	3003.8
53°	6906.7	7069.1	7355.5	7570.9	7443.0	6796.4	5777.4	4881.1	4042.3	3469.7	2949.3
54°	6755.8	6927.5	7243.2	7508.5	7436.0	6809.3	5812.9	4892.3	4061.2	3489.3	2974.5
55°	6598.1	6779.5	7120.6	7435.1	7418.4	6809.9	5836.9	4915.4	4092.5	3507.2	3002.7
56°	6436.8	6624.7	6995.4	7353.1	7397.7	6805.8	5848.3	4929.1	4126.7	3512.5	3030.4
57°	6274.0	6467.1	6860.6	7267.0	7369.3	6789.3	5846.4	4935.8	4144.3	3391.5	3053.4
58°	6106.6	6301.5	6721.5	7172.0	7330.9	6778.1	5835.7	4948.6	4158.1	3281.6	2898.6
59°	5935.0	6140.2	6578.9	7069.0	7281.8	6765.0	5830.2	4948.5	4089.4	3278.1	2777.8
60°	5753.4	5972.1	6431.6	6960.3	7217.6	6742.1	5819.3	4927.2	4003.7	3317.1	2785.3
61°	5566.8	5798.1	6280.8	6844.2	7141.1	6708.1	5796.4	4899.8	3978.7	3359.5	2794.9
62°	5371.9	5620.7	6134.5	6720.3	7052.1	6659.7	5768.1	4885.5	3990.3	3400.6	2682.3
63°	5182.0	5441.3	5990.7	6593.4	6954.2	6593.1	5719.4	4847.4	4000.8	3318.0	2523.3
64°	5000.0	5268.3	5852.8	6461.9	6839.2	6505.9	5653.2	4802.4	3998.7	3214.4	2490.9
65°	4855.3	5109.3	5716.5	6324.9	6713.7	6401.8	5572.4	4735.7	3955.4	3213.2	2460.5
66°	4747.0	4982.2	5586.0	6188.3	6573.9	6272.3	5475.8	4647.1	3817.1	3233.1	2248.1
67°	4686.1	4887.2	5469.2	6049.7	6415.8	6125.3	5364.6	4532.8	3760.0	3100.8	2213.6
68°	4618.2	4822.8	5365.2	5910.3	6233.8	5957.1	5175.8	4410.5	3781.9	3027.7	2073.9
69°	4465.9	4753.0	5279.5	5773.8	6038.0	5728.7	4867.4	4267.8	3792.5	3017.8	1934.1
70°	4172.2	4627.3	5210.4	5636.8	5840.5	5422.8	4436.0	4059.8	3783.8	2871.2	1793.7
71°	3719.7	4385.1	5145.4	5500.2	5603.3	5037.1	3959.0	3775.6	3661.4	2824.8	1568.7
72°	3256.4	3994.0	5066.1	5355.9	5329.3	4597.4	3527.8	3441.1	3511.0	2717.4	1405.7
73°	2762.1	3498.5	4939.5	5213.1	5013.5	4146.1	3134.1	3113.6	3343.4	2631.9	1253.5
74°	2201.2	2966.6	4700.3	5041.6	4657.1	3712.2	2673.3	2823.5	3148.7	2481.0	1059.2
75°	1497.4	2389.4	4290.1	4800.9	4256.7	3215.8	2035.1	2506.5	2899.3	2329.4	945.4
76°	830.1	1695.3	3760.3	4449.2	3837.2	2543.8	1396.9	2011.9	2675.9	2064.7	846.0
77°	641.6	968.8	3193.5	3945.4	3371.4	1679.2	759.3	1513.6	2455.4	1800.1	745.5
78°	457.3	738.3	2508.2	3254.6	2793.5	934.3	365.6	873.4	2030.8	1534.4	641.2
79°	273.1	509.3	1645.6	2446.1	2037.0	619.1	275.0	633.5	1606.3	1210.9	531.9
80°	241.7	280.4	896.5	1609.8	1255.4	316.1	184.8	393.6	1180.0	922.2	449.7
81°	216.1	243.2	679.9	840.9	913.8	261.9	156.7	154.4	635.1	678.3	404.4
82°	192.9	215.0	470.6	557.6	578.1	223.7	132.9	123.0	466.7	541.5	399.3
83°	171.2	189.4	261.2	291.9	242.4	183.4	110.8	97.4	298.2	429.2	328.2
84°	150.8	165.3	217.9	238.8	196.5	142.8	90.4	77.4	134.5	330.1	252.4
85°	131.1	143.2	177.1	202.6	156.0	111.8	70.7	61.0	115.2	230.9	176.7
86°	112.2	123.1	144.4	168.7	120.0	90.0	52.7	46.8	90.9	132.5	101.4
87°	93.6	103.7	116.2	131.5	92.5	68.4	36.5	34.4	67.1	75.0	63.1
88°	80.9	87.2	90.3	91.0	67.3	46.8	25.7	24.4	46.6	51.4	43.3
89°	68.3	70.7	69.5	64.7	42.1	28.4	14.8	14.4	26.1	27.9	23.5

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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: P1445029

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4-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: P1445029
CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4-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: P1445029

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7	3702.7
1°	3645.6	3646.0	3650.1	3658.1	3669.4	3680.9	3697.2	3699.8	3716.1	3732.5	3747.0
2°	3595.5	3595.1	3601.5	3616.2	3635.1	3660.4	3689.4	3707.8	3741.1	3773.0	3802.5
3°	3551.8	3550.1	3558.5	3577.0	3606.0	3641.5	3685.0	3719.7	3768.7	3819.4	3864.1
4°	3514.4	3512.5	3523.0	3546.1	3581.8	3628.9	3684.8	3734.4	3802.2	3870.6	3932.4
5°	3486.5	3483.4	3494.3	3521.5	3562.3	3618.8	3687.5	3753.4	3839.1	3926.7	4007.2
6°	3462.1	3457.6	3471.0	3502.4	3548.2	3611.7	3693.6	3775.9	3880.2	3988.3	4087.8
7°	3441.3	3436.3	3451.0	3486.0	3539.5	3610.6	3703.9	3802.7	3925.3	4056.0	4179.6
8°	3425.4	3419.6	3435.0	3474.7	3533.7	3612.9	3717.6	3831.2	3974.4	4130.5	4276.7
9°	3411.1	3405.6	3422.8	3466.5	3531.2	3617.8	3732.5	3861.8	4027.5	4209.1	4381.6
10°	3401.0	3393.8	3413.4	3462.1	3531.6	3624.7	3750.0	3897.0	4084.1	4292.8	4493.2
11°	3393.0	3385.6	3407.8	3460.2	3535.5	3636.1	3771.2	3936.6	4147.7	4381.7	4612.2
12°	3388.2	3380.8	3404.0	3461.5	3542.7	3649.3	3795.9	3976.5	4211.2	4476.8	4739.1
13°	3387.7	3378.9	3403.7	3464.5	3552.8	3665.6	3821.7	4019.4	4279.5	4577.2	4876.1
14°	3387.9	3377.8	3405.9	3470.9	3565.1	3683.4	3849.4	4064.0	4349.0	4682.0	5020.2
15°	3384.1	3336.4	3402.8	3478.3	3578.0	3703.8	3878.3	4112.5	4422.5	4795.2	5174.2
16°	3312.4	3268.3	3336.8	3486.1	3591.7	3726.3	3909.3	4160.0	4499.6	4910.0	5336.3
17°	3259.2	3228.2	3285.6	3472.9	3607.0	3749.3	3943.1	4210.8	4578.4	5033.2	5502.6
18°	3231.3	3221.0	3258.3	3414.6	3625.1	3773.3	3972.9	4261.5	4661.4	5161.7	5670.1
19°	3235.4	3225.9	3262.1	3376.7	3641.3	3791.1	3993.7	4304.2	4746.2	5291.8	5837.1
20°	3242.7	3232.8	3270.3	3357.4	3656.1	3803.2	4018.7	4346.5	4833.5	5424.5	5998.5
21°	3252.2	3243.9	3281.1	3365.9	3625.9	3818.5	4054.2	4395.0	4912.7	5560.2	6154.8
22°	3265.9	3256.2	3295.2	3380.7	3582.1	3846.6	4093.8	4451.1	4993.5	5691.4	6302.5
23°	3280.1	3272.4	3312.8	3397.3	3561.9	3875.9	4134.3	4512.3	5082.8	5822.0	6443.6
24°	3295.6	3288.1	3330.9	3416.2	3555.8	3900.3	4167.0	4573.5	5176.9	5946.4	6577.4
25°	3311.9	3303.1	3348.3	3436.5	3572.1	3919.2	4197.9	4629.2	5276.2	6056.4	6702.2
26°	3328.9	3320.9	3367.1	3460.0	3587.3	3938.8	4231.6	4681.6	5377.2	6156.9	6821.9
27°	3345.8	3339.2	3385.3	3481.6	3599.3	3963.1	4268.5	4737.7	5477.1	6257.0	6937.2
28°	3363.5	3320.7	3404.0	3503.8	3614.5	3983.6	4311.7	4798.4	5570.7	6353.1	7047.5
29°	3310.2	3202.6	3362.8	3525.6	3639.5	3977.2	4356.0	4862.5	5653.2	6446.3	7151.9
30°	3199.2	3139.2	3249.7	3543.9	3667.3	3972.2	4400.0	4930.0	5740.0	6539.7	7249.3
31°	3145.0	3147.1	3194.7	3551.2	3695.8	3971.8	4443.6	4999.7	5824.8	6627.8	7342.5
32°	3155.8	3171.8	3203.5	3469.0	3725.3	3973.1	4478.6	5069.3	5905.5	6711.9	7426.9
33°	3178.0	3197.6	3225.6	3385.4	3751.9	3972.3	4501.0	5137.6	5989.0	6793.0	7500.9
34°	3199.8	3224.3	3248.4	3348.5	3773.4	3993.6	4523.6	5205.6	6068.8	6863.8	7564.4
35°	3222.3	3253.8	3271.3	3362.9	3794.5	4017.1	4558.3	5260.1	6149.7	6926.0	7624.9
36°	3246.9	3280.7	3295.8	3385.7	3811.2	4043.6	4595.6	5305.0	6225.5	6987.6	7682.3
37°	3268.7	3306.1	3319.9	3402.8	3820.9	4073.1	4633.5	5355.9	6298.5	7046.5	7735.9
38°	3289.9	3326.3	3342.9	3417.2	3723.3	4095.9	4676.7	5413.3	6369.1	7106.1	7780.9
39°	3305.3	3204.7	3361.2	3432.9	3647.0	4116.0	4719.0	5470.2	6436.1	7162.2	7819.8
40°	3179.9	3088.1	3250.0	3457.6	3624.2	4145.1	4754.8	5526.3	6493.2	7214.9	7853.2
41°	3066.7	3063.4	3131.1	3484.1	3646.8	4183.6	4786.3	5583.1	6537.2	7267.5	7882.3
42°	3040.5	3080.8	3098.2	3508.1	3675.5	4224.0	4808.7	5639.2	6577.0	7319.8	7904.7
43°	3061.2	3100.0	3119.2	3461.1	3705.9	4263.9	4833.2	5691.7	6619.5	7369.3	7922.7
44°	3083.8	3118.1	3143.2	3337.5	3735.5	4305.0	4880.0	5739.4	6663.4	7414.2	7933.5

REPORT NUMBER: P1445029

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3107.0	3136.3	3166.4	3279.2	3756.5	4338.0	4932.3	5781.8	6710.4	7456.2	7933.5
46°	3130.6	3147.1	3190.3	3292.1	3770.5	4350.6	4984.8	5809.7	6759.7	7493.6	7923.9
47°	3153.1	3020.3	3209.7	3306.1	3788.8	4359.0	5036.5	5832.5	6805.4	7529.0	7904.7
48°	3032.7	2846.7	3108.7	3318.3	3813.3	4323.9	5076.4	5852.2	6848.3	7559.5	7882.0
49°	2863.2	2813.1	2935.9	3334.5	3767.2	4265.5	5087.6	5886.0	6886.8	7580.2	7852.3
50°	2833.5	2827.0	2894.4	3350.6	3649.3	4224.2	5095.7	5926.6	6921.3	7589.3	7815.9
51°	2856.8	2842.6	2917.7	3306.9	3583.2	4205.9	5088.7	5962.9	6946.0	7587.2	7773.8
52°	2881.5	2858.1	2939.5	3132.8	3603.5	4227.0	5090.3	5997.1	6964.7	7579.3	7721.1
53°	2903.5	2865.1	2960.4	3065.5	3631.7	4244.1	5110.7	6025.7	6975.1	7562.5	7663.2
54°	2914.4	2658.8	2972.6	3089.1	3650.2	4259.9	5116.0	6049.1	6970.6	7544.6	7595.0
55°	2727.6	2531.7	2786.6	3116.6	3667.5	4280.6	5119.5	6060.5	6955.1	7517.9	7522.6
56°	2589.1	2522.8	2646.4	3145.1	3673.3	4312.2	5120.0	6054.4	6928.8	7487.9	7443.0
57°	2579.9	2527.2	2631.6	3165.6	3583.6	4324.5	5113.4	6033.7	6894.2	7449.4	7353.8
58°	2583.9	2506.1	2634.7	3018.8	3455.2	4330.7	5110.6	6007.0	6857.8	7395.7	7258.6
59°	2535.5	2208.7	2594.8	2887.5	3442.3	4282.8	5103.0	5980.4	6820.7	7335.3	7155.3
60°	2273.8	2127.4	2330.8	2888.2	3479.8	4177.0	5067.4	5949.1	6774.4	7264.8	7042.0
61°	2223.3	2002.5	2273.5	2896.5	3519.9	4125.6	5024.8	5909.2	6717.8	7181.0	6921.3
62°	2216.5	1877.5	2259.4	2800.3	3555.5	4124.4	5000.2	5859.3	6649.1	7082.8	6795.7
63°	2087.5	1753.9	2126.8	2624.6	3482.5	4123.1	4956.4	5793.1	6564.7	6968.1	6664.3
64°	1958.5	1718.4	1994.4	2589.8	3358.1	4111.7	4898.6	5706.4	6462.7	6844.3	6531.3
65°	1829.2	1570.0	1860.9	2568.1	3339.8	4064.4	4817.5	5599.1	6336.9	6708.4	6387.6
66°	1627.2	1312.9	1663.5	2340.1	3340.8	3927.0	4716.0	5471.1	6187.3	6561.3	6236.6
67°	1421.7	1251.8	1451.0	2290.7	3203.0	3837.1	4594.8	5316.4	6024.1	6392.3	6086.3
68°	1279.0	874.1	1312.3	2200.9	3125.7	3840.7	4429.4	5049.2	5815.7	6205.2	5937.3
69°	1042.1	721.8	1070.7	2008.6	3096.4	3832.9	4230.0	4655.0	5527.0	5999.3	5793.4
70°	834.6	497.3	858.5	1816.3	2939.4	3802.4	3954.1	4138.7	5164.0	5772.2	5640.0
71°	573.9	272.8	573.4	1624.5	2869.3	3648.1	3607.9	3661.4	4709.0	5503.5	5479.2
72°	317.1	50.0	296.5	1460.2	2748.8	3449.1	3239.0	3224.0	4226.1	5198.7	5318.1
73°	267.0	0.6	240.5	1288.3	2625.9	3243.9	2881.4	2788.1	3753.4	4830.7	5137.9
74°	216.9	0.4	184.9	1059.5	2444.1	3018.2	2549.3	2269.8	3285.1	4412.7	4927.2
75°	167.0	0.5	160.5	929.7	2240.9	2753.7	2048.2	1590.2	2726.8	3949.4	4633.3
76°	127.0	0.5	127.9	826.5	1953.8	2490.4	1547.1	921.2	1973.4	3460.5	4239.0
77°	89.4	0.6	101.2	728.6	1666.7	2110.5	1045.8	591.9	1175.5	2940.5	3688.6
78°	66.8	0.6	81.9	631.4	1379.8	1730.7	538.3	270.4	879.5	2303.5	2975.1
79°	65.9	0.7	81.4	524.9	1103.7	1348.1	351.5	206.3	588.1	1557.7	2156.7
80°	88.3	0.8	98.2	454.5	857.3	770.9	166.9	175.0	296.6	910.3	1342.0
81°	108.0	0.9	101.6	422.3	644.2	559.1	133.7	148.9	252.2	604.2	983.5
82°	95.3	1.1	63.4	393.6	499.8	347.3	110.0	125.2	215.4	302.8	633.9
83°	59.5	1.2	45.0	298.4	375.2	136.8	89.8	104.1	177.7	231.2	284.3
84°	43.6	1.3	26.7	203.3	250.6	113.9	72.2	85.3	140.7	190.4	236.4
85°	27.7	1.5	8.9	109.0	127.4	89.8	57.4	66.5	109.8	149.5	200.8
86°	12.2	1.6	8.0	55.4	70.9	66.8	44.2	47.6	88.2	116.0	167.2
87°	9.0	1.8	7.8	39.0	40.4	48.1	32.5	31.9	66.7	89.5	129.9
88°	6.6	1.9	6.9	22.7	28.2	33.6	23.0	18.7	45.3	65.0	90.3
89°	5.1	2.1	4.3	6.5	16.0	19.1	13.4	8.0	27.7	40.6	64.4

REPORT NUMBER: P1445029

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4-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: P1445029

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4-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: P1445029
CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4-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: P1445029

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3702.7	3702.7	3702.7
1°	3757.8	3765.5	3769.2
2°	3824.9	3840.0	3845.6
3°	3898.6	3921.4	3929.2
4°	3981.4	4013.3	4022.8
5°	4071.3	4115.3	4129.0
6°	4170.7	4227.1	4243.5
7°	4280.0	4346.2	4367.7
8°	4398.0	4476.9	4503.1
9°	4525.3	4619.6	4649.8
10°	4658.7	4773.9	4808.9
11°	4807.8	4938.6	4980.9
12°	4965.8	5119.0	5165.3
13°	5136.1	5309.0	5363.9
14°	5318.2	5514.1	5577.6
15°	5509.0	5731.1	5806.7
16°	5703.1	5952.7	6042.8
17°	5900.6	6180.5	6283.1
18°	6099.1	6406.3	6513.9
19°	6291.0	6623.8	6734.9
20°	6476.6	6825.5	6938.4
21°	6650.5	7009.3	7117.9
22°	6812.6	7177.1	7274.6
23°	6968.3	7323.5	7419.4
24°	7112.6	7454.2	7545.0
25°	7246.3	7569.0	7654.8
26°	7368.2	7670.1	7748.2
27°	7482.9	7757.5	7830.5
28°	7581.9	7833.5	7900.5
29°	7672.7	7896.5	7959.5
30°	7751.2	7948.6	8008.5
31°	7822.2	7992.8	8047.1
32°	7883.3	8028.2	8074.8
33°	7935.7	8053.2	8095.8
34°	7977.2	8070.4	8109.3
35°	8011.4	8079.3	8114.3
36°	8038.0	8078.4	8112.1
37°	8058.1	8073.3	8101.7
38°	8070.2	8063.5	8085.9
39°	8074.4	8045.9	8065.2
40°	8071.9	8024.8	8038.0
41°	8063.7	7999.7	8001.9
42°	8048.3	7968.1	7961.6
43°	8025.5	7931.6	7911.0
44°	7997.9	7888.5	7851.6

REPORT NUMBER: P1445029

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	7963.3	7838.5	7784.9
46°	7924.3	7781.6	7707.2
47°	7877.8	7713.6	7619.8
48°	7827.7	7639.1	7528.3
49°	7767.9	7555.1	7425.6
50°	7697.2	7462.9	7310.9
51°	7616.5	7359.2	7186.5
52°	7522.6	7241.7	7049.0
53°	7421.1	7118.4	6906.7
54°	7310.1	6981.2	6755.8
55°	7195.0	6839.5	6598.1
56°	7069.6	6684.8	6436.8
57°	6938.3	6527.4	6274.0
58°	6798.9	6364.9	6106.6
59°	6654.3	6200.2	5935.0
60°	6508.4	6030.0	5753.4
61°	6362.6	5857.2	5566.8
62°	6216.3	5678.6	5371.9
63°	6075.4	5506.1	5182.0
64°	5943.0	5339.3	5000.0
65°	5814.3	5185.5	4855.3
66°	5689.7	5056.1	4747.0
67°	5571.1	4962.3	4686.1
68°	5461.9	4897.1	4618.2
69°	5364.9	4827.1	4465.9
70°	5288.5	4712.8	4172.2
71°	5210.5	4489.4	3719.7
72°	5114.2	4104.2	3256.4
73°	4972.2	3604.8	2762.1
74°	4712.6	3053.8	2201.2
75°	4298.9	2472.1	1497.4
76°	3772.0	1809.0	830.1
77°	3174.5	1079.0	641.6
78°	2459.4	810.0	457.3
79°	1616.5	548.8	273.1
80°	907.6	287.6	241.7
81°	683.3	250.7	216.1
82°	475.2	221.6	192.9
83°	267.2	195.0	171.2
84°	221.2	170.0	150.8
85°	179.4	147.1	131.1
86°	146.6	126.1	112.2
87°	117.5	106.1	93.6
88°	90.0	88.9	80.9
89°	69.5	71.7	68.3

REPORT NUMBER: P1445029

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

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CATALOG NUMBER: XAS180-SFPM (5000K-180W-T4-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: P1445029

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)