Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1436730

Luminaire Tested: XAS180-SFPM (4000K-144W-T3-HSS)

Issue Date: 3/25/2026

Test Information

Test Method:	LM-79-2024
Report Number:	P1436730
	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 (4000K-144W-T3-HSS)
Description:	XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
	LUMEN OUTPUT - 80% (144W)
	OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source:	4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	24748 (1 lamp)
Luminaire Lumens:	19950.9 lumens
Efficiency:	80.6%
Efficacy:	141.0 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):	141.5
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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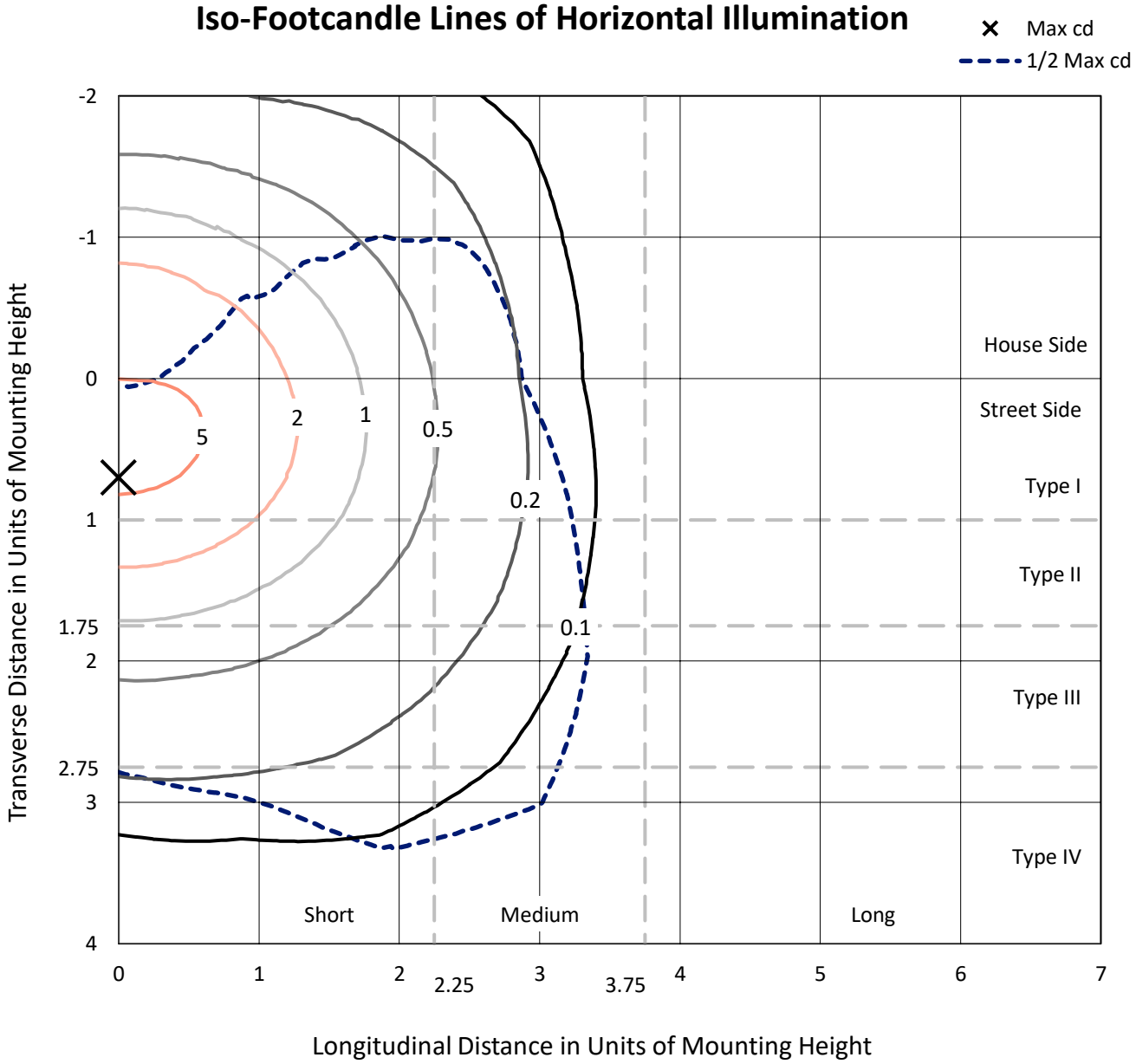
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Short - Full Cutoff

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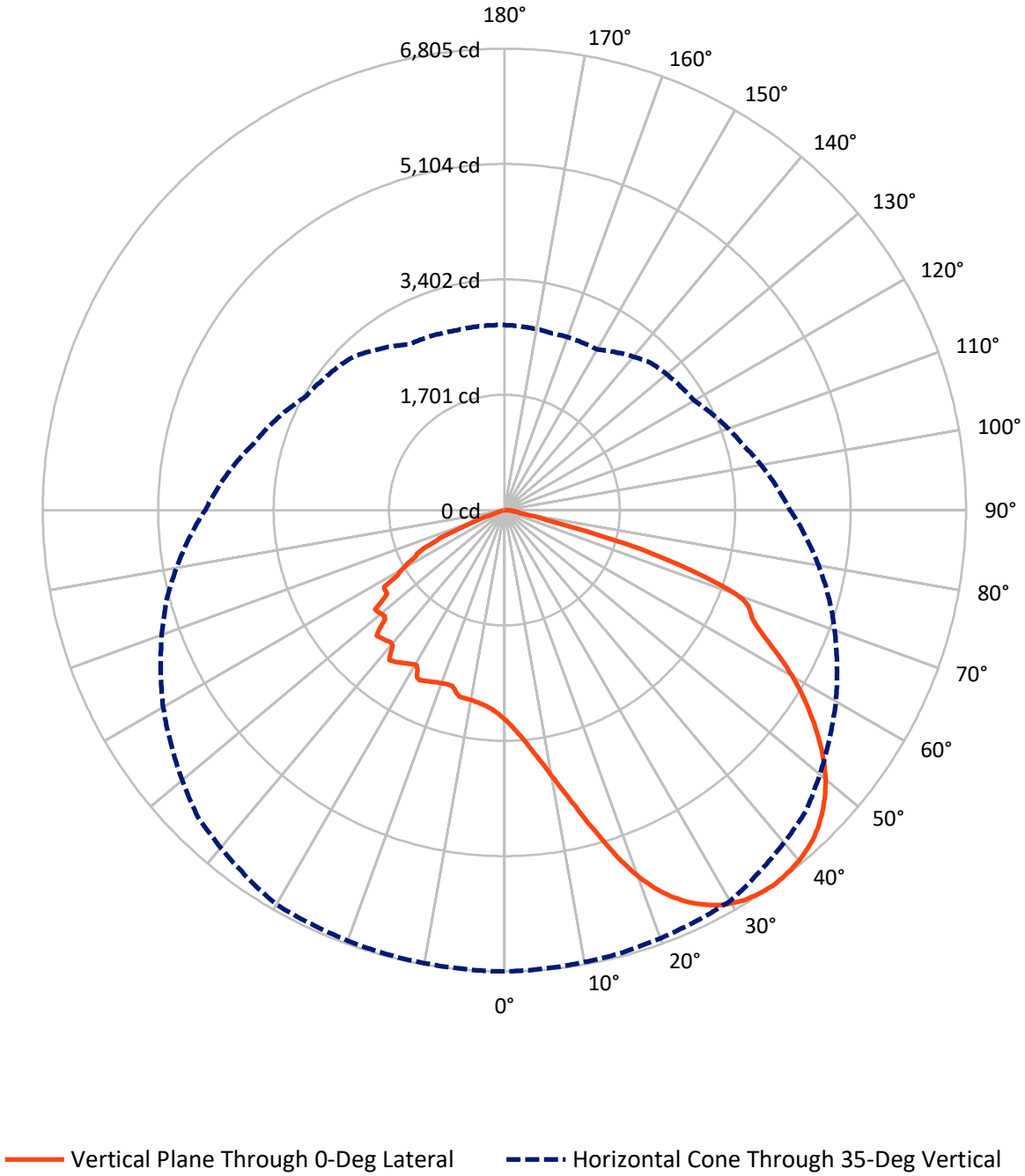
Luminous Intensity Polar Plot



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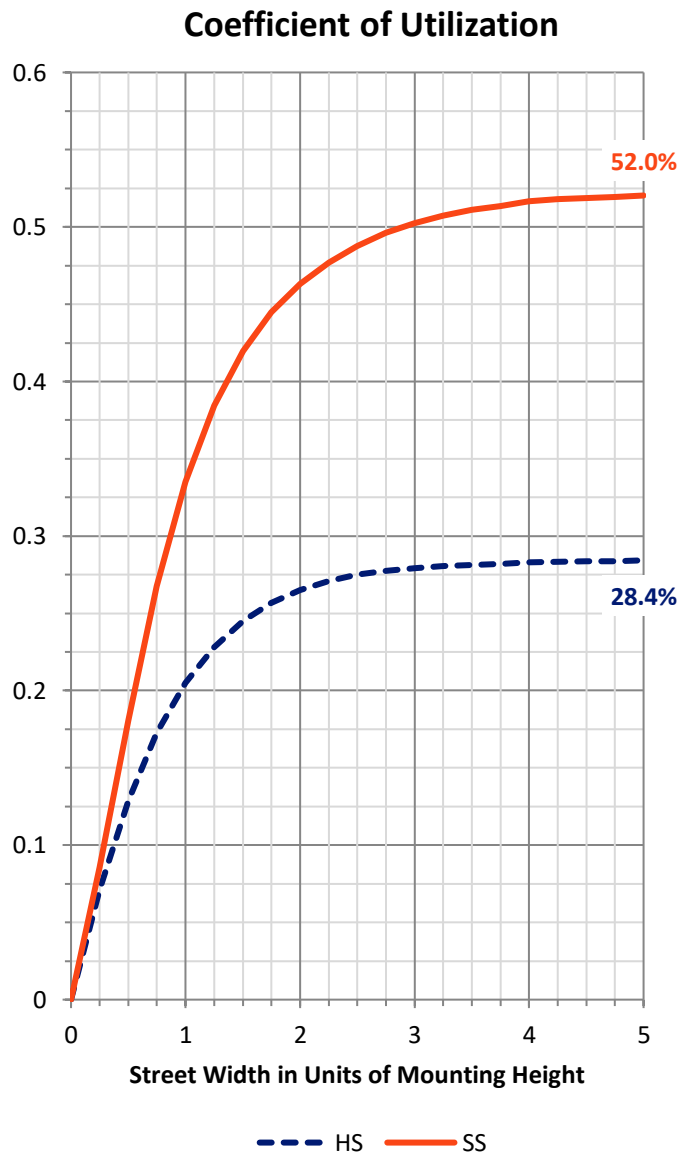
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7067.9	0.0	7067.9
	% Lamp	28.6	0.0	28.6
Street Side	Lumens	12883.0	0.0	12883.0
	% Lamp	52.1	0.0	52.1
Total	Lumens	19950.9	0.0	19950.9
	% Lamp	80.6	0.0	80.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	308.0	1.5	1.2
10°-20°	1040.7	5.2	4.2
20°-30°	1967.8	9.9	8.0
30°-40°	2893.1	14.5	11.7
40°-50°	3654.4	18.3	14.8
50°-60°	4046.5	20.3	16.4
60°-70°	3807.2	19.1	15.4
70°-80°	2074.9	10.4	8.4
80°-90°	158.3	0.8	0.6
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°	19950.9	100.0	80.6
0°-180°	19950.9	100.0	80.6



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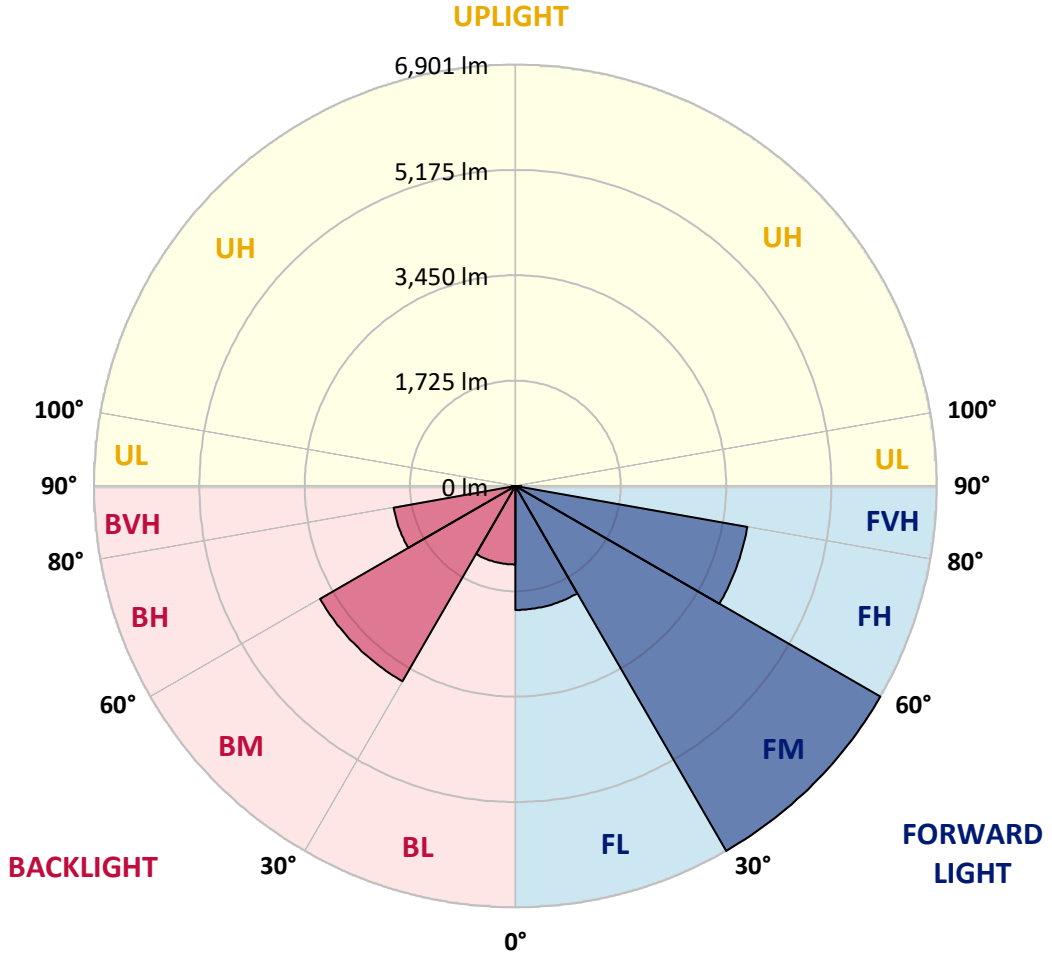
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2029.9	8.2			
FM	(30°-60°)	6900.5	27.9			
FH	(60°-80°)	3856.9	15.6			G2/5000
FVH	(80°-90°)	95.7	0.4			G1/100
BL	(0°-30°)	1286.6	5.2	B3/2500		
BM	(30°-60°)	3693.4	14.9	B3/5000		
BH	(60°-80°)	2025.3	8.2	B3/2500		G3/2500
BVH	(80°-90°)	62.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4797.1	19.4			

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°	*3105.2*	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2
1°	*3160.9*	3159.7	3156.0	3148.0	3135.9	3123.2	3097.4	3085.5	3075.8	3066.6	3060.5
2°	*3225.0*	3221.4	3210.8	3191.7	3166.3	3138.8	3098.9	3074.1	3052.3	3034.9	3022.2
3°	*3295.1*	3289.9	3270.3	3239.4	3201.2	3159.2	3104.9	3066.5	3033.7	3007.9	2988.6
4°	*3373.6*	3364.3	3335.4	3293.2	3240.4	3183.5	3112.7	3062.6	3019.1	2984.9	2960.5
5°	*3462.7*	3448.8	3410.5	3352.2	3283.5	3209.6	3123.1	3060.2	3007.8	2966.3	2938.5
6°	*3558.7*	3540.8	3492.3	3418.8	3330.9	3238.6	3135.8	3060.3	2998.7	2952.6	2920.3
7°	*3662.9*	3640.3	3582.2	3492.4	3382.8	3272.0	3151.7	3064.1	2992.5	2941.9	2906.1
8°	*3776.5*	3749.1	3677.3	3569.9	3439.0	3308.0	3172.2	3071.3	2991.0	2933.5	2894.8
9°	*3899.5*	3865.7	3780.9	3653.1	3501.6	3347.3	3194.5	3080.0	2991.9	2928.2	2885.4
10°	*4032.9*	3993.0	3892.9	3743.2	3567.3	3389.5	3218.3	3091.1	2995.9	2926.8	2878.4
11°	*4177.1*	4130.3	4012.3	3838.9	3636.7	3436.6	3245.4	3105.1	3001.4	2927.7	2874.8
12°	*4331.7*	4276.8	4139.6	3939.9	3709.6	3484.9	3274.3	3120.5	3009.6	2930.4	2874.1
13°	*4498.3*	4434.4	4275.6	4050.0	3787.1	3537.1	3304.6	3137.3	3018.9	2934.7	2875.7
14°	*4677.5*	4606.8	4423.5	4164.0	3867.9	3590.6	3335.6	3154.4	3028.3	2940.7	2877.1
15°	*4869.7*	4785.4	4580.1	4287.0	3952.9	3643.6	3368.0	3173.8	3040.4	2947.7	2881.0
16°	*5067.7*	4976.4	4740.4	4414.4	4043.3	3701.3	3403.4	3193.7	3053.6	2954.7	2885.1
17°	*5269.1*	5165.3	4901.9	4545.9	4137.1	3760.7	3439.3	3215.5	3067.8	2963.3	2869.7
18°	*5462.7*	5347.8	5061.9	4677.8	4236.4	3822.6	3475.1	3233.3	3082.8	2973.7	2819.5
19°	*5648.0*	5525.0	5221.3	4808.3	4337.4	3884.6	3499.9	3246.2	3090.7	2984.6	2784.1
20°	*5818.7*	5692.9	5373.5	4936.9	4438.1	3943.7	3531.2	3262.3	3095.6	2992.7	2764.1
21°	*5969.3*	5843.4	5519.7	5062.7	4541.8	3998.1	3566.0	3289.9	3104.0	2954.2	2772.3
22°	*6100.7*	5983.7	5656.0	5183.8	4643.7	4060.6	3609.9	3316.7	3123.1	2922.8	2782.2
23°	*6222.1*	6107.7	5783.9	5298.6	4745.0	4125.4	3654.2	3340.6	3141.0	2904.2	2793.9
24°	*6327.5*	6218.9	5903.8	5409.9	4832.7	4197.6	3695.1	3360.1	3153.2	2891.7	2807.7
25°	*6419.5*	6318.2	6013.3	5515.8	4916.3	4274.3	3731.9	3383.9	3166.4	2904.8	2821.7
26°	*6497.9*	6404.2	6113.5	5617.3	5002.1	4349.4	3771.5	3410.1	3181.8	2911.8	2838.1
27°	*6566.9*	6480.1	6205.2	5716.1	5084.1	4421.9	3814.2	3441.8	3204.5	2920.2	2853.8
28°	*6625.6*	6544.4	6290.1	5808.4	5163.8	4485.1	3860.8	3474.9	3217.8	2932.4	2869.0
29°	*6675.1*	6599.4	6364.5	5894.2	5242.1	4550.0	3912.2	3507.4	3200.3	2953.7	2886.0
30°	*6716.1*	6645.0	6433.1	5978.7	5321.1	4615.9	3964.8	3541.1	3201.3	2974.9	2899.7
31°	*6748.5*	6682.9	6492.2	6055.4	5395.5	4681.0	4018.5	3574.1	3192.1	2997.2	2903.9
32°	*6771.7*	6710.6	6542.1	6119.1	5466.1	4747.9	4072.6	3599.1	3199.6	3018.6	2818.3
33°	*6789.3*	6731.5	6587.8	6179.2	5530.2	4815.9	4126.1	3612.5	3193.1	3036.0	2747.1
34°	*6800.7*	6745.1	6624.1	6232.5	5587.4	4882.8	4175.7	3628.4	3210.8	3050.8	2719.4
35°	*6804.9*	*6751.9*	*6656.3*	*6282.3*	*5641.2*	*4948.8*	*4211.4*	*3654.6*	*3229.5*	*3064.3*	*2734.7*
36°	*6803.0*	6755.0	6679.4	6330.0	5694.1	5011.2	4243.3	3682.4	3251.7	3079.8	2750.5
37°	*6794.3*	6750.3	6697.5	6373.0	5744.7	5071.7	4281.9	3711.2	3273.6	3076.3	2762.8
38°	*6781.1*	6742.5	6709.0	6410.3	5793.6	5131.3	4329.1	3743.1	3289.0	2992.0	2773.2
39°	*6763.7*	6729.2	6715.6	6443.3	5840.8	5187.2	4373.6	3770.6	3303.2	2925.4	2789.1
40°	*6740.9*	6713.0	6713.4	6471.4	5886.2	5231.6	4418.6	3795.6	3328.0	2907.8	2809.5
41°	*6710.6*	6690.6	6708.3	6497.7	5930.3	5268.6	4463.8	3818.9	3358.5	2929.7	2829.7
42°	*6676.8*	6664.0	6695.5	6520.8	5973.2	5302.3	4508.9	3836.6	3388.4	2953.3	2847.0
43°	*6634.4*	6632.8	6678.5	6538.4	6016.3	5341.7	4547.0	3855.1	3418.9	2978.0	2786.8
44°	*6584.5*	6595.3	6656.5	6548.4	6056.9	5382.9	4581.9	3889.3	3450.6	3000.8	2690.1

REPORT NUMBER: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	6528.6	6553.2	6627.2	6551.4	6093.9	5426.3	4612.1	3930.5	3475.0	3015.8	2649.9
46°	6463.5	6503.8	6594.1	6547.2	6130.9	5468.8	4634.9	3972.4	3482.8	3025.8	2664.6
47°	6390.2	6446.0	6557.3	6536.2	6166.1	5510.2	4655.1	4011.0	3483.4	3042.4	2676.9
48°	6313.4	6381.2	6512.9	6519.3	6196.1	5548.5	4673.7	4032.4	3427.3	3062.1	2686.9
49°	6227.3	6308.4	6460.6	6499.0	6219.3	5589.0	4704.3	4046.3	3380.7	3000.8	2700.9
50°	6131.1	6226.9	6401.2	6472.0	6234.0	5623.9	4740.9	4055.1	3364.3	2905.8	2715.9
51°	6026.8	6136.5	6330.4	6438.7	6242.3	5652.9	4777.4	4049.7	3351.8	2865.0	2663.4
52°	5911.5	6037.6	6253.4	6397.1	6246.0	5677.5	4812.0	4077.4	3375.5	2886.9	2519.1
53°	5792.2	5928.3	6168.5	6349.1	6241.9	5699.6	4845.1	4093.4	3390.0	2909.7	2473.4
54°	5665.6	5809.6	6074.3	6296.8	6236.0	5710.4	4874.8	4102.8	3405.9	2926.2	2494.5
55°	5533.3	5685.4	5971.5	6235.2	6221.3	5711.0	4895.0	4122.2	3432.1	2941.3	2518.1
56°	5398.0	5555.6	5866.5	6166.5	6203.9	5707.5	4904.5	4133.7	3460.8	2945.7	2541.3
57°	5261.6	5423.5	5753.5	6094.3	6180.1	5693.7	4903.0	4139.3	3475.5	2844.2	2560.7
58°	5121.1	5284.6	5636.8	6014.6	6147.8	5684.3	4893.9	4150.0	3487.1	2752.1	2430.8
59°	4977.2	5149.3	5517.3	5928.2	6106.7	5673.3	4889.4	4149.9	3429.5	2749.1	2329.6
60°	4824.9	5008.3	5393.7	5837.1	6052.9	5654.1	4880.2	4132.0	3357.6	2781.8	2335.8
61°	4668.5	4862.4	5267.3	5739.7	5988.7	5625.6	4861.0	4109.1	3336.6	2817.4	2343.9
62°	4505.0	4713.7	5144.6	5635.9	5914.1	5585.0	4837.3	4097.1	3346.4	2851.9	2249.4
63°	4345.8	4563.2	5024.0	5529.4	5832.0	5529.1	4796.4	4065.1	3355.2	2782.5	2116.1
64°	4193.2	4418.2	4908.3	5419.1	5735.5	5456.0	4740.9	4027.4	3353.4	2695.7	2088.9
65°	4071.7	4284.8	4794.0	5304.2	5630.3	5368.7	4673.1	3971.5	3317.1	2694.7	2063.4
66°	3981.0	4178.2	4684.6	5189.6	5513.1	5260.1	4592.1	3897.2	3201.1	2711.4	1885.3
67°	3929.9	4098.5	4586.6	5073.4	5380.5	5136.8	4498.9	3801.4	3153.2	2600.4	1856.4
68°	3872.9	4044.5	4499.4	4956.5	5227.9	4995.8	4340.5	3698.7	3171.6	2539.1	1739.2
69°	3745.3	3986.0	4427.5	4842.0	5063.6	4804.2	4081.9	3579.1	3180.5	2530.8	1622.0
70°	3498.9	3880.6	4369.5	4727.2	4898.0	4547.7	3720.2	3404.6	3173.2	2407.8	1504.2
71°	3119.4	3677.5	4315.0	4612.6	4699.1	4224.3	3320.1	3166.3	3070.6	2369.0	1315.6
72°	2730.9	3349.5	4248.5	4491.6	4469.3	3855.5	2958.5	2885.8	2944.4	2278.8	1178.8
73°	2316.3	2933.9	4142.4	4371.9	4204.4	3477.0	2628.3	2611.1	2803.9	2207.2	1051.2
74°	1846.0	2487.9	3941.8	4228.0	3905.6	3113.1	2241.9	2367.8	2640.6	2080.6	888.3
75°	1255.8	2003.8	3597.8	4026.2	3569.8	2696.8	1706.7	2102.0	2431.5	1953.5	792.8
76°	696.2	1421.7	3153.5	3731.2	3217.9	2133.3	1171.5	1687.2	2244.1	1731.5	709.4
77°	538.0	812.4	2678.1	3308.7	2827.4	1408.2	636.8	1269.4	2059.2	1509.6	625.2
78°	383.5	619.1	2103.4	2729.4	2342.7	783.5	306.6	732.5	1703.1	1286.8	537.7
79°	229.0	427.1	1380.1	2051.4	1708.3	519.2	230.6	531.3	1347.1	1015.5	446.1
80°	202.7	235.2	751.9	1350.0	1052.8	265.1	155.0	330.1	989.6	773.4	377.1
81°	181.2	203.9	570.2	705.2	766.3	219.7	131.4	129.5	532.6	568.8	339.2
82°	161.8	180.3	394.6	467.6	484.8	187.6	111.5	103.2	391.4	454.1	334.9
83°	143.6	158.8	219.1	244.8	203.3	153.8	93.0	81.7	250.1	360.0	275.2
84°	126.4	138.6	182.7	200.3	164.8	119.8	75.8	64.9	112.8	276.8	211.7
85°	110.0	120.1	148.5	169.9	130.8	93.8	59.3	51.1	96.6	193.7	148.1
86°	94.1	103.2	121.1	141.5	100.7	75.5	44.2	39.3	76.2	111.1	85.0
87°	78.5	87.0	97.4	110.3	77.6	57.4	30.6	28.9	56.2	62.9	52.9
88°	67.8	73.1	75.7	76.3	56.4	39.2	21.5	20.5	39.1	43.1	36.3
89°	57.3	59.3	58.3	54.3	35.3	23.8	12.4	12.1	21.9	23.4	19.7

REPORT NUMBER: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2	3105.2
1°	3057.3	3057.6	3061.1	3067.8	3077.3	3086.9	3100.6	3102.7	3116.4	3130.2	3142.3
2°	3015.3	3015.0	3020.3	3032.6	3048.5	3069.7	3094.0	3109.4	3137.4	3164.2	3188.8
3°	2978.6	2977.2	2984.2	2999.8	3024.1	3053.9	3090.3	3119.4	3160.5	3203.0	3240.5
4°	2947.2	2945.7	2954.5	2973.8	3003.8	3043.2	3090.2	3131.8	3188.6	3246.0	3297.8
5°	2923.9	2921.3	2930.4	2953.2	2987.5	3034.8	3092.4	3147.7	3219.6	3293.0	3360.6
6°	2903.4	2899.6	2910.9	2937.2	2975.6	3028.9	3097.6	3166.6	3254.1	3344.7	3428.1
7°	2886.0	2881.8	2894.1	2923.5	2968.4	3027.9	3106.2	3189.1	3291.9	3401.4	3505.1
8°	2872.7	2867.7	2880.6	2913.9	2963.4	3029.9	3117.7	3212.9	3333.1	3463.9	3586.5
9°	2860.7	2856.1	2870.4	2907.1	2961.3	3034.0	3130.2	3238.6	3377.6	3529.8	3674.6
10°	2852.2	2846.1	2862.6	2903.4	2961.7	3039.8	3144.8	3268.1	3425.0	3600.1	3768.1
11°	2845.5	2839.3	2857.8	2901.8	2965.0	3049.3	3162.6	3301.3	3478.3	3674.6	3867.9
12°	2841.5	2835.3	2854.7	2902.9	2971.0	3060.4	3183.4	3334.8	3531.6	3754.4	3974.4
13°	2841.0	2833.6	2854.4	2905.4	2979.5	3074.0	3205.0	3370.8	3588.9	3838.5	4089.2
14°	2841.1	2832.7	2856.3	2910.8	2989.8	3089.0	3228.2	3408.2	3647.2	3926.5	4210.1
15°	2838.0	2798.0	2853.6	2917.0	3000.6	3106.1	3252.4	3448.8	3708.8	4021.4	4339.2
16°	2777.9	2740.9	2798.3	2923.5	3012.1	3125.0	3278.4	3488.7	3773.5	4117.6	4475.1
17°	2733.3	2707.2	2755.4	2912.5	3024.9	3144.3	3306.8	3531.3	3839.6	4221.0	4614.6
18°	2709.8	2701.2	2732.5	2863.6	3040.1	3164.4	3331.8	3573.8	3909.1	4328.7	4755.1
19°	2713.3	2705.3	2735.7	2831.8	3053.7	3179.3	3349.2	3609.6	3980.3	4437.8	4895.2
20°	2719.4	2711.1	2742.6	2815.6	3066.1	3189.5	3370.1	3645.1	4053.5	4549.2	5030.5
21°	2727.4	2720.4	2751.6	2822.8	3040.7	3202.3	3400.0	3685.8	4120.0	4662.9	5161.6
22°	2738.8	2730.7	2763.4	2835.2	3004.1	3225.8	3433.2	3732.8	4187.7	4772.9	5285.4
23°	2750.8	2744.3	2778.2	2849.0	2987.1	3250.4	3467.1	3784.1	4262.6	4882.5	5403.8
24°	2763.8	2757.5	2793.4	2864.9	2982.0	3270.9	3494.5	3835.5	4341.5	4986.8	5516.0
25°	2777.5	2770.0	2808.0	2881.9	2995.7	3286.7	3520.5	3882.1	4424.8	5079.0	5620.6
26°	2791.7	2785.0	2823.7	2901.6	3008.4	3303.2	3548.7	3926.1	4509.5	5163.4	5721.0
27°	2805.9	2800.4	2839.0	2919.7	3018.5	3323.6	3579.7	3973.2	4593.3	5247.3	5817.7
28°	2820.7	2784.8	2854.7	2938.4	3031.2	3340.7	3615.9	4024.0	4671.8	5327.9	5910.2
29°	2776.0	2685.8	2820.1	2956.7	3052.2	3335.4	3653.0	4077.8	4740.9	5406.0	5997.7
30°	2682.9	2632.6	2725.3	2972.0	3075.5	3331.2	3689.9	4134.4	4813.7	5484.4	6079.5
31°	2637.5	2639.2	2679.2	2978.1	3099.4	3330.9	3726.5	4192.9	4884.8	5558.2	6157.6
32°	2646.5	2659.9	2686.5	2909.2	3124.1	3331.9	3755.9	4251.3	4952.5	5628.8	6228.4
33°	2665.2	2681.6	2705.1	2839.0	3146.4	3331.3	3774.7	4308.5	5022.5	5696.8	6290.5
34°	2683.5	2704.0	2724.2	2808.2	3164.5	3349.1	3793.6	4365.5	5089.4	5756.1	6343.7
35°	*2702.3*	*2728.7*	*2743.4*	*2820.2*	*3182.2*	*3368.9*	*3822.7*	*4411.2*	*5157.3*	*5808.3*	*6394.5*
36°	2723.0	2751.3	2763.9	2839.4	3196.2	3391.0	3854.0	4448.9	5220.8	5860.0	6442.6
37°	2741.2	2772.5	2784.1	2853.6	3204.3	3415.8	3885.8	4491.6	5282.1	5909.4	6487.6
38°	2759.0	2789.6	2803.4	2865.7	3122.5	3435.0	3922.0	4539.7	5341.3	5959.4	6525.3
39°	2771.9	2687.6	2818.8	2879.0	3058.5	3451.8	3957.5	4587.4	5397.5	6006.4	6557.9
40°	2666.8	2589.8	2725.5	2899.7	3039.4	3476.2	3987.5	4634.5	5445.4	6050.6	6585.9
41°	2571.8	2569.1	2625.8	2921.8	3058.3	3508.5	4013.9	4682.2	5482.3	6094.7	6610.3
42°	2549.9	2583.7	2598.2	2942.0	3082.3	3542.3	4032.7	4729.2	5515.7	6138.6	6629.1
43°	2567.2	2599.8	2615.8	2902.6	3107.9	3575.8	4053.3	4773.2	5551.3	6180.1	6644.2
44°	2586.2	2614.9	2636.0	2798.9	3132.7	3610.3	4092.5	4813.3	5588.1	6217.7	6653.2

REPORT NUMBER: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2605.6	2630.2	2655.4	2750.0	3150.3	3638.0	4136.3	4848.8	5627.6	6253.0	6653.2
46°	2625.4	2639.2	2675.5	2760.9	3162.1	3648.5	4180.4	4872.2	5668.8	6284.3	6645.2
47°	2644.3	2532.9	2691.8	2772.6	3177.4	3655.6	4223.7	4891.3	5707.2	6314.0	6629.1
48°	2543.3	2387.3	2607.0	2782.8	3198.0	3626.1	4257.2	4907.8	5743.2	6339.6	6610.0
49°	2401.1	2359.1	2462.1	2796.4	3159.3	3577.2	4266.6	4936.2	5775.5	6357.0	6585.1
50°	2376.2	2370.8	2427.3	2809.9	3060.4	3542.5	4273.4	4970.2	5804.4	6364.6	6554.6
51°	2395.8	2383.9	2446.9	2773.3	3005.0	3527.2	4267.5	5000.6	5825.1	6362.8	6519.3
52°	2416.5	2396.9	2465.2	2627.3	3022.0	3544.8	4268.9	5029.3	5840.8	6356.2	6475.1
53°	2434.9	2402.8	2482.6	2570.8	3045.7	3559.2	4285.9	5053.3	5849.5	6342.1	6426.5
54°	2444.1	2229.8	2492.9	2590.6	3061.1	3572.5	4290.4	5072.9	5845.7	6327.1	6369.4
55°	2287.4	2123.2	2336.9	2613.6	3075.7	3589.8	4293.4	5082.5	5832.7	6304.7	6308.7
56°	2171.3	2115.7	2219.4	2637.6	3080.5	3616.3	4293.8	5077.3	5810.7	6279.6	6241.9
57°	2163.6	2119.4	2206.9	2654.8	3005.3	3626.7	4288.2	5060.0	5781.7	6247.2	6167.1
58°	2167.0	2101.7	2209.5	2531.7	2897.7	3631.8	4285.9	5037.6	5751.1	6202.3	6087.2
59°	2126.3	1852.3	2176.1	2421.5	2886.8	3591.7	4279.5	5015.4	5720.0	6151.6	6000.6
60°	1906.9	1784.1	1954.7	2422.1	2918.2	3502.9	4249.7	4989.1	5681.2	6092.5	5905.6
61°	1864.5	1679.3	1906.6	2429.1	2951.9	3459.9	4214.0	4955.6	5633.8	6022.2	5804.3
62°	1858.8	1574.5	1894.8	2348.4	2981.7	3458.8	4193.3	4913.8	5576.1	5939.9	5699.1
63°	1750.7	1470.8	1783.6	2201.1	2920.6	3457.8	4156.6	4858.2	5505.3	5843.6	5588.9
64°	1642.5	1441.1	1672.5	2171.9	2816.2	3448.2	4108.1	4785.5	5419.8	5739.8	5477.3
65°	1534.0	1316.6	1560.6	2153.7	2800.8	3408.5	4040.1	4695.6	5314.3	5625.9	5356.8
66°	1364.6	1101.1	1395.1	1962.4	2801.6	3293.3	3954.9	4588.2	5188.8	5502.5	5230.2
67°	1192.3	1049.8	1216.8	1921.1	2686.1	3217.9	3853.3	4458.5	5052.0	5360.7	5104.1
68°	1072.6	733.0	1100.6	1845.7	2621.3	3220.9	3714.6	4234.4	4877.2	5203.8	4979.2
69°	874.0	605.3	897.9	1684.5	2596.7	3214.4	3547.4	3903.8	4635.1	5031.2	4858.5
70°	699.9	417.0	720.0	1523.2	2465.1	3188.8	3316.0	3470.8	4330.7	4840.7	4729.8
71°	481.3	228.8	480.8	1362.3	2406.3	3059.4	3025.7	3070.6	3949.1	4615.3	4595.0
72°	265.9	41.9	248.6	1224.6	2305.2	2892.5	2716.3	2703.7	3544.1	4359.8	4459.9
73°	223.9	0.5	201.7	1080.4	2202.2	2720.4	2416.4	2338.2	3147.7	4051.2	4308.8
74°	181.9	0.4	155.1	888.5	2049.7	2531.2	2137.9	1903.5	2755.0	3700.6	4132.0
75°	140.0	0.4	134.6	779.7	1879.2	2309.3	1717.7	1333.5	2286.7	3312.1	3885.6
76°	106.5	0.4	107.2	693.1	1638.5	2088.5	1297.4	772.6	1655.0	2902.1	3554.9
77°	75.0	0.5	84.9	611.0	1397.7	1769.9	877.0	496.4	985.8	2466.0	3093.4
78°	56.1	0.5	68.7	529.5	1157.2	1451.4	451.5	226.8	737.6	1931.8	2495.0
79°	55.2	0.6	68.3	440.2	925.6	1130.6	294.8	173.1	493.2	1306.3	1808.7
80°	74.0	0.7	82.4	381.2	718.9	646.5	139.9	146.8	248.7	763.4	1125.4
81°	90.6	0.8	85.2	354.2	540.2	468.9	112.2	124.9	211.5	506.7	824.8
82°	79.9	0.9	53.1	330.1	419.1	291.3	92.3	105.0	180.6	253.9	531.6
83°	49.9	1.0	37.8	250.3	314.6	114.7	75.3	87.3	149.1	193.9	238.4
84°	36.6	1.1	22.4	170.5	210.1	95.5	60.5	71.5	118.0	159.7	198.2
85°	23.2	1.2	7.5	91.4	106.8	75.3	48.1	55.7	92.0	125.4	168.4
86°	10.2	1.4	6.7	46.5	59.5	56.0	37.1	39.9	73.9	97.2	140.2
87°	7.6	1.5	6.6	32.7	33.9	40.3	27.3	26.8	56.0	75.0	108.9
88°	5.5	1.6	5.8	19.0	23.7	28.1	19.3	15.7	38.0	54.5	75.7
89°	4.3	1.8	3.6	5.5	13.4	16.0	11.3	6.7	23.2	34.1	54.0

REPORT NUMBER: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3105.2	3105.2	3105.2
1°	3151.4	3157.9	3160.9
2°	3207.6	3220.4	3225.0
3°	3269.5	3288.6	3295.1
4°	3338.9	3365.6	3373.6
5°	3414.3	3451.2	3462.7
6°	3497.7	3544.9	3558.7
7°	3589.3	3644.8	3662.9
8°	3688.3	3754.4	3776.5
9°	3795.1	3874.1	3899.5
10°	3906.9	4003.5	4032.9
11°	4031.9	4141.6	4177.1
12°	4164.5	4293.0	4331.7
13°	4307.3	4452.3	4498.3
14°	4460.0	4624.3	4677.5
15°	4620.0	4806.2	4869.7
16°	4782.8	4992.1	5067.7
17°	4948.4	5183.1	5269.1
18°	5114.8	5372.5	5462.7
19°	5275.8	5554.9	5648.0
20°	5431.4	5724.0	5818.7
21°	5577.2	5878.2	5969.3
22°	5713.2	6018.9	6100.7
23°	5843.8	6141.6	6222.1
24°	5964.8	6251.3	6327.5
25°	6076.9	6347.5	6419.5
26°	6179.1	6432.3	6497.9
27°	6275.4	6505.6	6566.9
28°	6358.4	6569.4	6625.6
29°	6434.5	6622.2	6675.1
30°	6500.4	6665.9	6716.1
31°	6559.9	6703.0	6748.5
32°	6611.1	6732.6	6771.7
33°	6655.1	6753.6	6789.3
34°	6689.9	6768.0	6800.7
35°	*6718.5*	*6775.5*	*6804.9*
36°	6740.9	6774.7	6803.0
37°	6757.7	6770.4	6794.3
38°	6767.9	6762.2	6781.1
39°	6771.4	6747.5	6763.7
40°	6769.3	6729.8	6740.9
41°	6762.5	6708.8	6710.6
42°	6749.5	6682.2	6676.8
43°	6730.4	6651.6	6634.4
44°	6707.2	6615.5	6584.5

REPORT NUMBER: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	6678.2	6573.6	6528.6
46°	6645.5	6525.9	6463.5
47°	6606.6	6468.9	6390.2
48°	6564.6	6406.4	6313.4
49°	6514.3	6335.9	6227.3
50°	6455.1	6258.6	6131.1
51°	6387.4	6171.6	6026.8
52°	6308.7	6073.1	5911.5
53°	6223.5	5969.7	5792.2
54°	6130.4	5854.6	5665.6
55°	6033.9	5735.8	5533.3
56°	5928.7	5606.0	5398.0
57°	5818.6	5474.1	5261.6
58°	5701.7	5337.7	5121.1
59°	5580.5	5199.6	4977.2
60°	5458.1	5057.0	4824.9
61°	5335.8	4912.0	4668.5
62°	5213.2	4762.2	4505.0
63°	5095.0	4617.6	4345.8
64°	4983.9	4477.6	4193.2
65°	4876.1	4348.7	4071.7
66°	4771.5	4240.2	3981.0
67°	4672.1	4161.5	3929.9
68°	4580.5	4106.8	3872.9
69°	4499.2	4048.1	3745.3
70°	4435.1	3952.3	3498.9
71°	4369.6	3764.9	3119.4
72°	4288.9	3441.9	2730.9
73°	4169.9	3023.1	2316.3
74°	3952.1	2561.0	1846.0
75°	3605.1	2073.2	1255.8
76°	3163.3	1517.1	696.2
77°	2662.2	904.9	538.0
78°	2062.5	679.2	383.5
79°	1355.6	460.2	229.0
80°	761.1	241.2	202.7
81°	573.0	210.3	181.2
82°	398.6	185.8	161.8
83°	224.1	163.6	143.6
84°	185.5	142.6	126.4
85°	150.4	123.4	110.0
86°	122.9	105.7	94.1
87°	98.6	89.0	78.5
88°	75.5	74.5	67.8
89°	58.3	60.1	57.3

REPORT NUMBER: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-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: P1436730
CATALOG NUMBER: XAS180-SFPM (4000K-144W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)