

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: P1444994

Luminaire Tested: XAS180-SFPM (4000K-108W-T5)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444994
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 (4000K-108W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 5
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 17714.3 lumens
Efficiency: 63.1%
Efficacy: 165.7 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 106.9
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

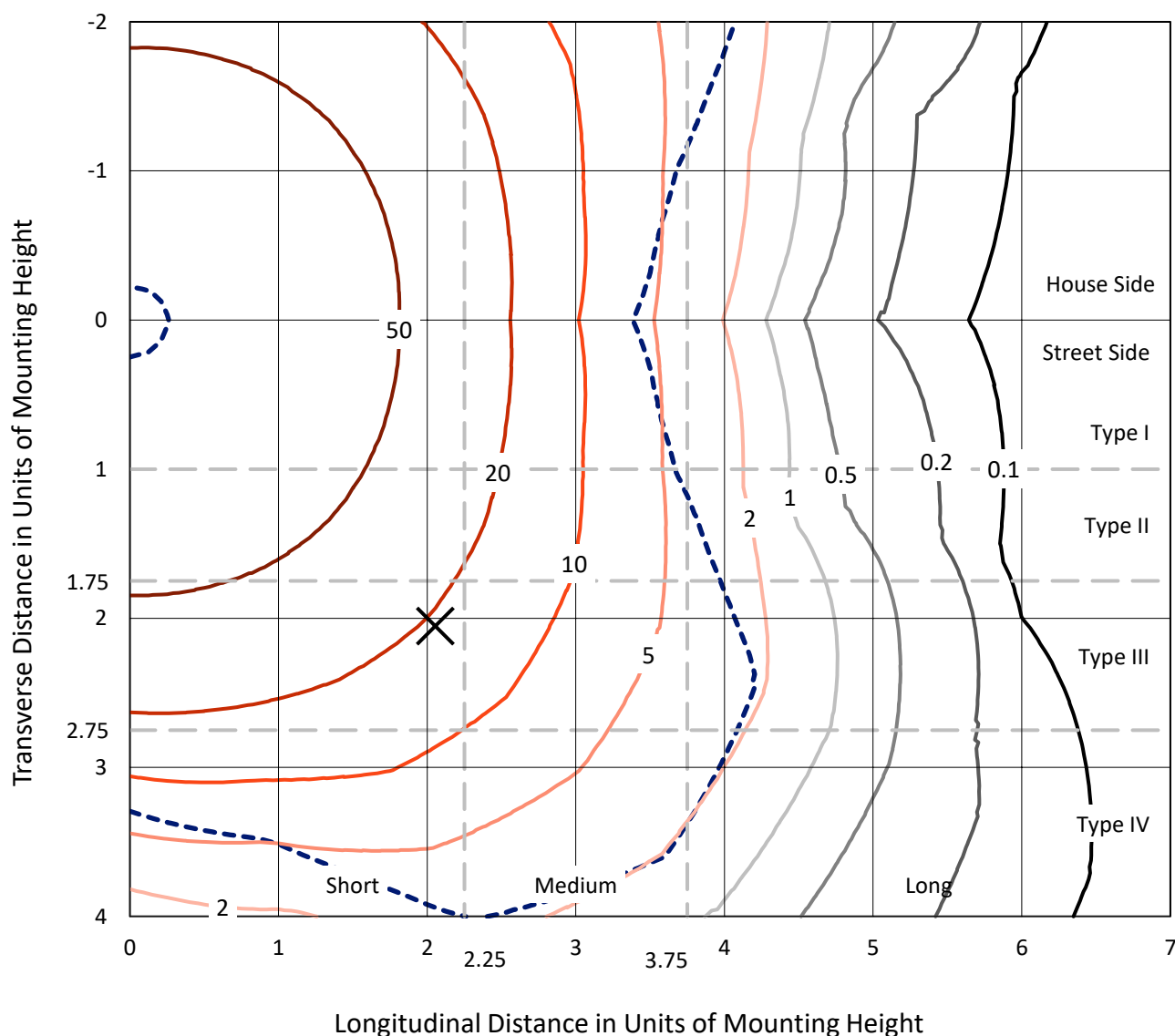
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

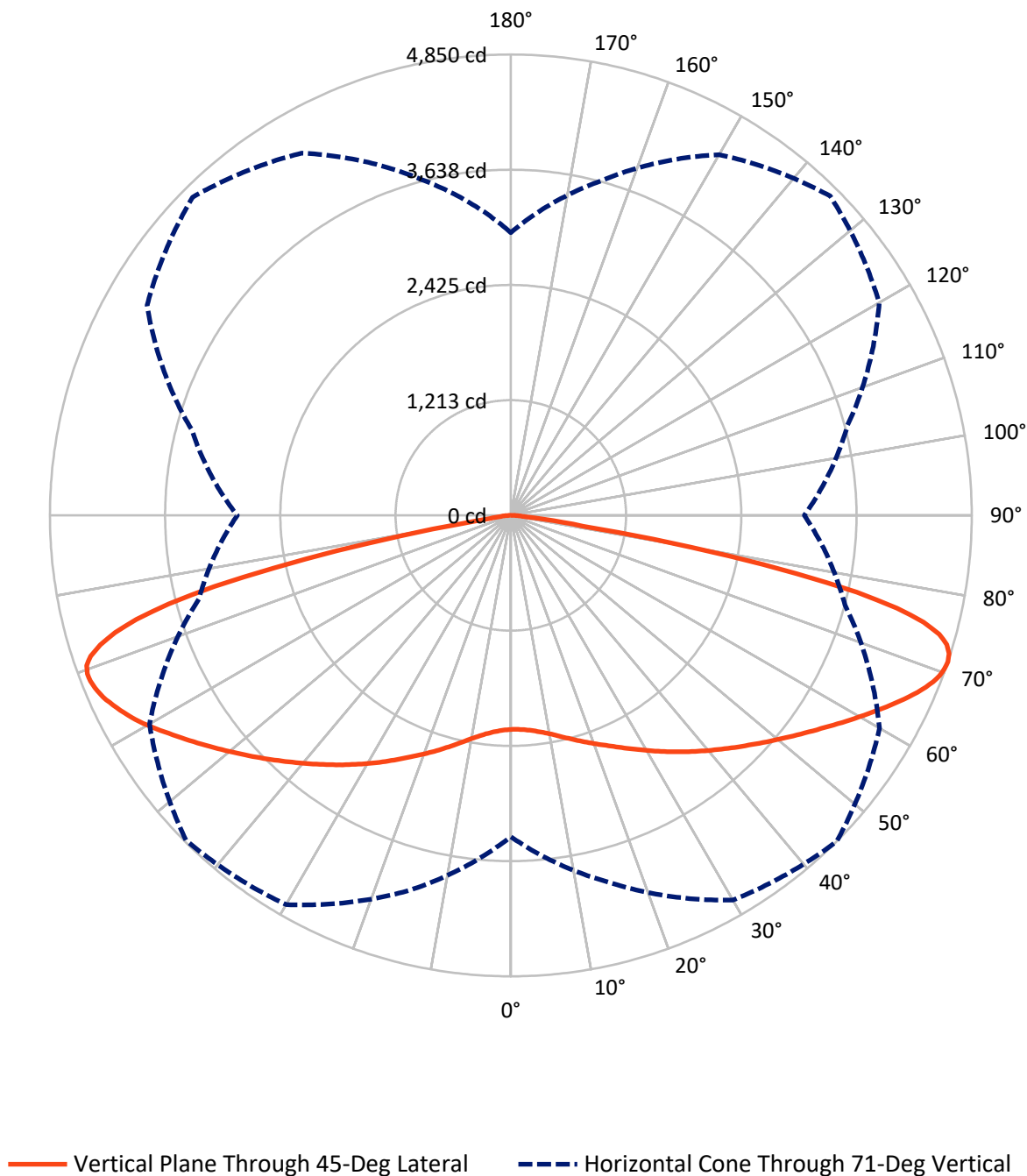


Based on 3 foot mounting height. Maximum calculated value = 250.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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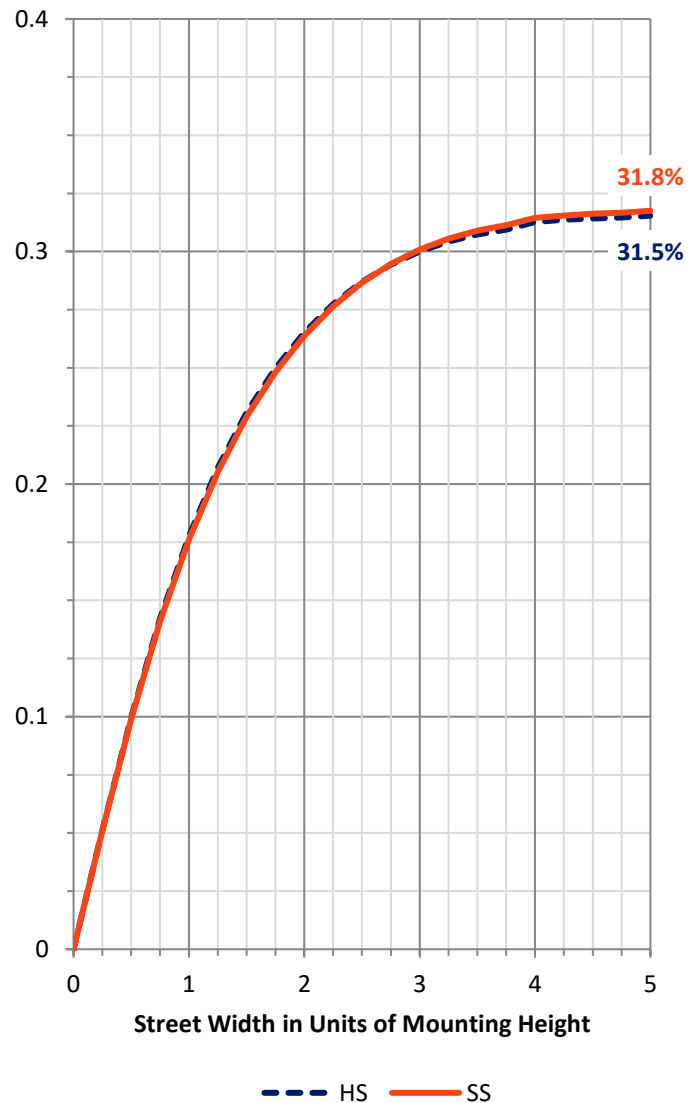
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8814.9	0.0	8814.9
	% Lamp	31.4	0.0	31.4
Street Side	Lumens	8899.4	0.0	8899.4
	% Lamp	31.7	0.0	31.7
Total	Lumens	17714.3	0.0	17714.3
	% Lamp	63.1	0.0	63.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	219.9	1.2	0.8
10°-20°	703.8	4.0	2.5
20°-30°	1279.7	7.2	4.6
30°-40°	1960.0	11.1	7.0
40°-50°	2731.9	15.4	9.7
50°-60°	3575.6	20.2	12.7
60°-70°	4273.1	24.1	15.2
70°-80°	2831.1	16.0	10.1
80°-90°	139.2	0.8	0.5
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°	17714.3	100.0	63.1
0°-180°	17714.3	100.0	63.1

Coefficient of Utilization



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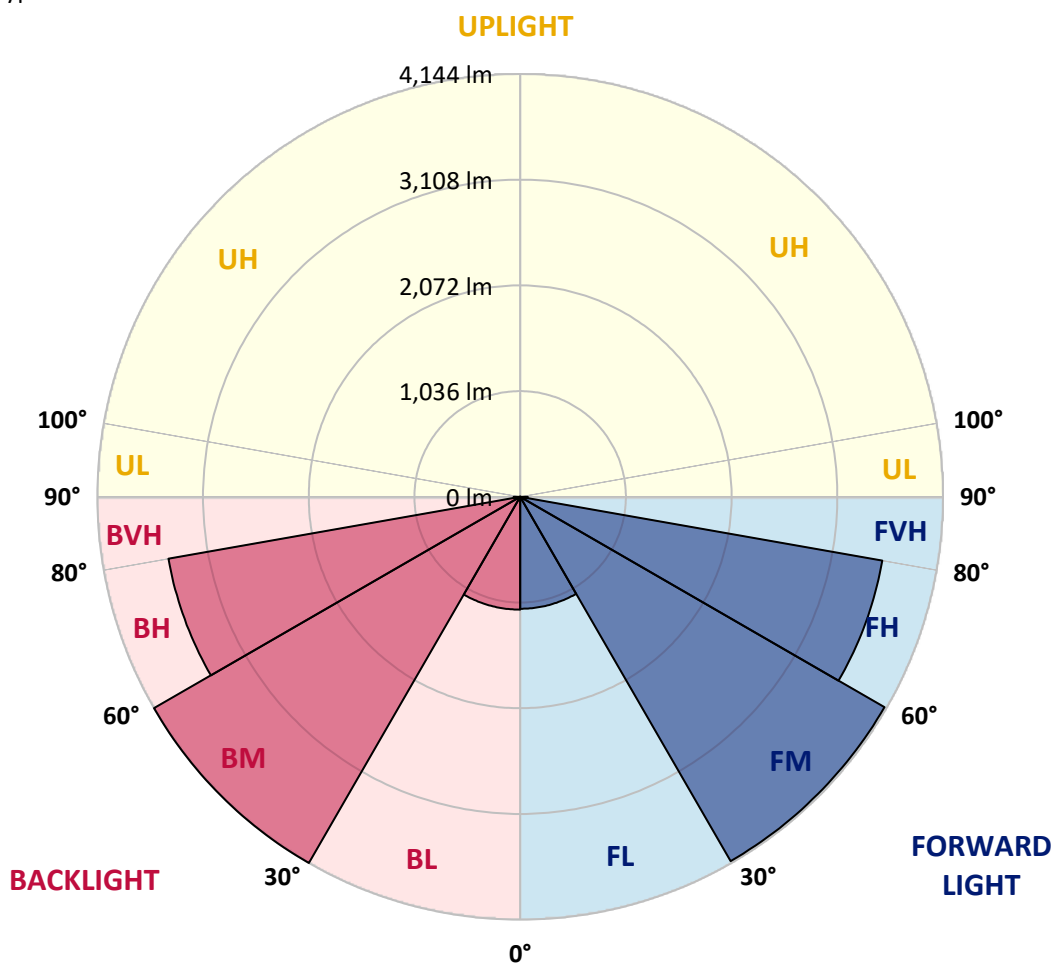
CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1097.4	3.9			
FM	(30°-60°)	4123.2	14.7			
FH	(60°-80°)	3604.1	12.8			G2/5000
FVH	(80°-90°)	74.6	0.3			G1/100
BL	(0°-30°)	1106.0	3.9	B3/2500		
BM	(30°-60°)	4144.3	14.8	B3/5000		
BH	(60°-80°)	3500.2	12.5	B4/5000		G2/5000
BVH	(80°-90°)	64.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10347.7	36.9			

BUG Rating: B4-U0-G2

Type V Short



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CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7
1°	2252.8	2252.3	2252.8	2252.3	2252.4	2252.2	2250.5	2250.7	2250.7	2251.5	2252.0
2°	2256.3	2255.4	2255.3	2254.7	2253.8	2253.0	2251.6	2251.6	2252.0	2253.1	2254.3
3°	2262.3	2260.8	2259.9	2258.5	2258.0	2256.8	2255.3	2255.1	2255.5	2256.9	2258.7
4°	2270.7	2268.8	2267.1	2265.7	2264.2	2262.7	2261.1	2260.9	2261.5	2263.4	2265.7
5°	2280.3	2278.0	2276.1	2273.6	2271.5	2270.2	2268.1	2268.9	2270.3	2272.5	2274.9
6°	2291.1	2288.3	2287.1	2284.2	2280.8	2278.7	2276.7	2277.3	2279.6	2283.4	2286.5
7°	2303.0	2300.3	2299.4	2296.3	2292.9	2289.8	2287.3	2288.3	2290.4	2296.1	2300.3
8°	2316.9	2313.9	2312.5	2309.9	2306.2	2302.7	2301.0	2302.2	2304.7	2309.9	2315.9
9°	2332.1	2329.3	2327.3	2324.8	2321.5	2317.2	2314.7	2316.6	2321.1	2326.5	2332.6
10°	2348.6	2345.9	2344.1	2341.4	2338.6	2333.7	2331.4	2333.3	2338.8	2345.3	2350.6
11°	2366.8	2363.6	2362.9	2360.4	2356.6	2351.8	2348.9	2352.0	2358.0	2366.2	2370.9
12°	2385.4	2381.2	2381.8	2380.3	2376.2	2371.2	2367.6	2371.7	2378.7	2387.8	2393.2
13°	2403.3	2399.4	2401.8	2402.0	2396.8	2392.0	2386.9	2391.9	2401.1	2410.5	2417.0
14°	2423.2	2418.7	2421.9	2423.9	2418.8	2413.0	2407.1	2413.5	2423.2	2435.0	2441.1
15°	2442.7	2438.5	2442.6	2446.9	2441.5	2434.6	2428.8	2434.9	2447.0	2459.9	2465.1
16°	2463.9	2460.7	2464.1	2469.7	2465.4	2457.8	2452.1	2458.0	2471.6	2485.6	2490.8
17°	2486.8	2483.8	2487.7	2493.5	2490.5	2481.4	2475.4	2481.7	2497.8	2510.5	2516.3
18°	2510.5	2506.4	2511.5	2517.3	2515.2	2506.0	2500.1	2506.9	2523.6	2536.3	2540.9
19°	2535.0	2530.5	2536.3	2542.2	2541.1	2531.7	2525.6	2533.4	2550.4	2562.7	2565.6
20°	2561.5	2556.2	2561.5	2567.3	2567.5	2558.8	2552.8	2561.3	2577.9	2588.9	2590.4
21°	2588.5	2583.1	2586.9	2593.3	2594.7	2586.3	2580.2	2590.1	2605.8	2614.4	2616.3
22°	2617.1	2611.3	2613.9	2619.7	2623.9	2615.1	2609.7	2620.1	2635.5	2642.3	2643.5
23°	2647.3	2641.2	2641.7	2647.8	2653.4	2645.3	2639.8	2651.6	2665.4	2670.4	2672.4
24°	2679.1	2672.2	2670.6	2676.6	2683.4	2676.0	2671.6	2683.7	2696.8	2699.7	2702.0
25°	2712.3	2704.3	2700.7	2707.2	2715.1	2708.0	2705.1	2717.3	2727.7	2730.1	2731.4
26°	2746.9	2737.3	2732.2	2738.2	2746.8	2739.6	2739.0	2751.1	2759.6	2761.0	2761.5
27°	2782.5	2771.0	2763.7	2770.5	2778.3	2771.9	2773.5	2785.4	2791.9	2793.3	2792.7
28°	2819.8	2805.2	2796.2	2803.4	2810.6	2805.1	2809.4	2819.3	2825.6	2826.7	2824.1
29°	2857.8	2839.7	2830.1	2837.8	2842.9	2838.5	2846.9	2853.9	2859.1	2861.4	2857.1
30°	2896.5	2874.3	2864.7	2872.7	2876.0	2873.1	2885.4	2889.2	2893.4	2896.3	2890.2
31°	2935.9	2909.7	2900.6	2908.7	2909.2	2906.6	2924.3	2924.2	2928.0	2932.4	2925.1
32°	2975.1	2945.3	2936.3	2945.1	2942.8	2942.7	2962.5	2960.4	2963.4	2968.9	2960.0
33°	3014.1	2981.8	2973.9	2980.9	2978.4	2977.7	3001.8	2995.5	2999.6	3005.5	2996.0
34°	3053.5	3018.1	3010.8	3017.7	3013.7	3011.8	3040.2	3030.4	3035.9	3041.5	3032.2
35°	3095.1	3054.1	3048.7	3054.9	3049.7	3046.1	3079.9	3065.1	3072.6	3079.0	3070.3
36°	3136.1	3091.3	3087.6	3092.9	3087.2	3081.9	3119.1	3100.7	3111.2	3117.1	3109.3
37°	3177.3	3128.9	3127.1	3131.8	3124.8	3116.3	3158.1	3136.9	3149.4	3155.8	3149.0
38°	3219.0	3167.9	3166.7	3170.5	3162.2	3152.4	3198.5	3172.3	3186.7	3194.5	3188.6
39°	3259.9	3207.0	3206.0	3209.8	3199.9	3189.8	3239.4	3209.0	3225.4	3232.9	3227.2
40°	3300.4	3247.8	3245.3	3249.7	3238.1	3227.5	3280.1	3246.7	3264.4	3272.9	3267.6
41°	3340.2	3289.2	3285.9	3289.4	3277.6	3266.6	3320.7	3286.2	3302.8	3313.0	3306.3
42°	3381.9	3331.7	3327.5	3331.0	3317.4	3306.3	3359.7	3326.0	3342.6	3354.7	3348.6
43°	3422.3	3376.0	3369.7	3373.2	3358.7	3347.8	3397.6	3367.6	3382.8	3396.9	3390.5
44°	3461.8	3421.4	3412.3	3415.9	3399.9	3390.4	3434.0	3410.2	3423.0	3438.5	3433.3

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CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3501.5	3466.7	3456.0	3458.1	3441.9	3434.8	3469.6	3453.4	3464.0	3481.4	3477.5
46°	3541.2	3514.7	3501.3	3502.2	3485.8	3480.6	3505.7	3498.5	3505.7	3525.2	3522.2
47°	3582.3	3565.4	3548.4	3548.2	3531.3	3528.0	3543.0	3543.8	3549.8	3570.8	3569.6
48°	3624.1	3615.4	3595.9	3595.2	3576.5	3576.2	3578.0	3590.8	3595.5	3615.7	3617.5
49°	3667.4	3668.0	3646.0	3643.7	3623.2	3624.7	3612.8	3637.2	3641.7	3662.3	3664.8
50°	3711.5	3719.3	3696.2	3692.4	3669.7	3673.9	3647.8	3683.6	3687.4	3711.5	3714.1
51°	3756.7	3772.4	3747.8	3742.3	3719.1	3722.1	3684.3	3729.0	3735.0	3761.2	3766.2
52°	3803.1	3826.6	3802.2	3795.6	3769.2	3769.7	3721.8	3775.9	3783.9	3813.5	3817.8
53°	3849.7	3879.8	3857.7	3848.3	3819.2	3815.8	3757.6	3821.9	3832.8	3864.8	3870.5
54°	3896.2	3932.9	3913.9	3904.6	3869.9	3860.6	3793.0	3865.9	3883.4	3917.3	3923.3
55°	3940.9	3981.4	3971.4	3960.1	3920.2	3902.7	3827.9	3905.8	3934.5	3973.9	3978.8
56°	3982.8	4029.6	4030.3	4018.6	3972.1	3942.4	3861.3	3945.9	3985.4	4030.9	4035.7
57°	4022.6	4074.8	4089.1	4080.0	4023.2	3979.1	3891.2	3982.0	4035.9	4089.1	4091.1
58°	4059.9	4117.6	4149.1	4142.2	4073.7	4011.8	3916.7	4014.1	4086.5	4149.3	4144.1
59°	4093.4	4157.3	4210.6	4205.2	4124.6	4039.0	3940.5	4043.8	4135.9	4210.7	4195.3
60°	4123.6	4193.2	4270.9	4270.9	4173.4	4062.0	3959.2	4069.1	4183.1	4272.7	4244.6
61°	4148.3	4225.7	4329.3	4336.1	4221.8	4082.6	3973.8	4091.0	4231.9	4333.8	4294.1
62°	4167.6	4252.8	4386.5	4403.3	4268.4	4097.4	3982.0	4107.0	4277.2	4394.2	4341.6
63°	4184.5	4277.4	4442.4	4470.9	4316.3	4105.1	3982.4	4119.5	4322.7	4449.8	4386.1
64°	4199.6	4297.3	4493.4	4537.8	4361.2	4106.7	3976.0	4127.0	4368.0	4503.8	4427.9
65°	4214.4	4314.2	4542.8	4603.7	4404.1	4105.9	3964.9	4128.4	4409.9	4558.9	4464.6
66°	4222.9	4330.3	4586.7	4666.9	4441.3	4097.7	3948.3	4122.4	4447.6	4614.1	4498.7
67°	4222.9	4341.5	4624.2	4725.4	4472.0	4083.0	3921.1	4109.4	4478.5	4665.1	4526.2
68°	4184.0	4339.3	4656.2	4777.0	4493.3	4058.7	3837.5	4082.8	4503.0	4705.6	4508.6
69°	4059.3	4306.4	4677.0	4815.7	4505.7	3992.3	3662.0	4016.3	4515.1	4737.6	4467.3
70°	3796.4	4211.7	4684.8	4840.2	4510.5	3854.6	3405.7	3881.5	4513.1	4756.0	4445.2
71°	3380.8	3997.9	4673.9	4850.4	4480.0	3641.0	3088.4	3669.7	4476.9	4753.0	4383.7
72°	2947.5	3648.5	4636.7	4836.0	4401.8	3368.1	2799.0	3391.9	4382.2	4704.0	4280.7
73°	2488.5	3193.0	4546.0	4785.5	4268.0	3075.0	2575.8	3092.2	4223.9	4597.8	4151.1
74°	1957.7	2696.2	4347.0	4677.8	4080.8	2808.5	2295.5	2816.6	4017.2	4436.2	3937.1
75°	1296.3	2154.9	3982.7	4486.3	3835.0	2512.0	1754.0	2525.4	3754.3	4220.8	3618.4
76°	670.3	1512.3	3491.0	4178.7	3544.2	2066.6	1212.4	2100.4	3464.5	3902.7	3183.3
77°	485.0	813.6	2958.4	3728.6	3187.0	1390.8	671.7	1521.1	3119.4	3453.6	2644.1
78°	310.0	584.8	2312.3	3068.1	2690.3	720.9	289.2	941.8	2641.1	2856.0	1997.8
79°	135.0	364.2	1500.0	2338.0	1996.1	521.2	227.8	366.5	1970.2	2161.3	1351.5
80°	112.2	143.5	765.3	1522.4	1208.6	326.8	166.4	283.1	1299.2	1462.1	707.5
81°	95.9	118.2	553.5	770.5	593.7	132.4	106.3	199.6	634.7	770.1	325.1
82°	81.7	99.9	350.2	554.0	437.7	112.7	90.8	116.2	282.6	311.5	248.0
83°	68.5	83.4	147.0	352.3	286.5	95.4	76.8	98.1	222.0	243.1	170.9
84°	56.6	68.4	115.2	150.5	135.3	79.4	63.7	81.3	161.5	174.7	94.5
85°	44.7	55.9	87.9	124.1	102.8	65.0	51.3	66.2	101.6	106.7	68.3
86°	32.8	43.5	65.9	99.8	75.5	52.2	39.7	52.5	72.9	83.6	45.8
87°	22.2	31.1	48.0	73.4	55.4	39.4	28.3	39.8	52.6	59.4	28.5
88°	12.7	20.2	30.1	58.8	35.7	26.6	19.7	28.3	36.4	37.0	20.2
89°	5.1	8.7	12.2	44.6	15.9	14.3	11.2	19.5	25.1	25.6	11.9

REPORT NUMBER: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994
CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7
1°	2252.4	2252.9	2253.3	2254.0	2254.4	2254.7	2255.0	2253.5	2253.2	2253.0	2253.4
2°	2255.2	2256.4	2256.8	2258.1	2258.8	2259.0	2259.4	2258.0	2258.2	2257.6	2257.7
3°	2259.9	2261.9	2263.2	2264.4	2265.6	2266.0	2266.8	2265.0	2265.1	2264.5	2264.9
4°	2267.8	2270.0	2271.6	2273.1	2274.4	2275.1	2275.8	2274.4	2274.0	2273.6	2273.2
5°	2277.3	2280.4	2282.1	2284.4	2285.4	2286.1	2286.4	2284.8	2284.6	2284.0	2283.7
6°	2289.7	2292.7	2295.4	2297.7	2298.8	2298.8	2298.9	2297.0	2297.1	2296.7	2296.3
7°	2304.1	2306.9	2310.3	2312.9	2314.0	2314.7	2315.3	2312.8	2312.4	2311.6	2311.2
8°	2319.8	2323.1	2326.8	2330.2	2331.8	2333.1	2332.5	2329.5	2328.9	2328.0	2326.8
9°	2336.8	2340.6	2345.1	2349.5	2352.0	2352.5	2351.0	2346.7	2346.8	2346.5	2345.3
10°	2355.7	2360.2	2365.3	2370.7	2373.7	2373.7	2371.2	2366.9	2366.6	2367.1	2364.6
11°	2376.5	2381.5	2387.4	2394.0	2397.3	2396.8	2393.7	2389.1	2389.1	2389.6	2386.3
12°	2398.2	2403.3	2410.7	2418.5	2422.5	2421.5	2417.7	2412.2	2412.9	2412.9	2409.1
13°	2420.4	2425.4	2433.7	2444.9	2449.7	2448.2	2442.5	2437.1	2438.0	2438.0	2433.4
14°	2443.8	2448.5	2458.1	2471.0	2477.6	2475.6	2469.4	2462.8	2464.1	2464.9	2458.8
15°	2467.4	2471.6	2482.9	2498.0	2506.7	2504.4	2496.6	2489.5	2491.4	2492.9	2484.7
16°	2491.5	2495.8	2507.8	2525.0	2536.3	2535.3	2525.2	2517.0	2519.3	2520.9	2511.1
17°	2515.8	2520.0	2533.3	2552.2	2566.2	2565.1	2555.2	2546.2	2548.0	2549.7	2538.6
18°	2540.9	2545.0	2559.4	2579.0	2595.7	2596.4	2585.6	2575.3	2578.3	2579.3	2566.4
19°	2566.2	2571.7	2585.3	2606.3	2626.0	2627.3	2616.1	2605.5	2608.8	2609.1	2593.4
20°	2592.1	2598.5	2612.7	2635.6	2655.6	2659.4	2648.0	2637.1	2640.6	2640.0	2621.8
21°	2619.4	2626.0	2640.9	2664.4	2686.0	2692.3	2681.8	2669.8	2672.4	2671.5	2650.0
22°	2647.9	2654.9	2670.4	2694.8	2718.1	2725.7	2716.1	2702.9	2706.3	2703.4	2680.4
23°	2676.1	2684.6	2701.7	2726.7	2750.3	2760.6	2749.7	2737.7	2741.3	2735.6	2711.6
24°	2706.7	2716.1	2733.4	2758.9	2783.9	2794.8	2784.7	2773.1	2776.1	2768.1	2742.1
25°	2736.8	2747.9	2765.8	2791.4	2817.9	2829.4	2821.2	2809.4	2811.1	2801.8	2773.6
26°	2768.8	2782.3	2799.3	2825.5	2852.6	2864.2	2857.3	2847.4	2846.0	2835.1	2807.2
27°	2800.7	2816.4	2832.8	2859.4	2886.9	2898.7	2893.2	2885.2	2881.4	2868.7	2840.3
28°	2833.2	2854.0	2867.2	2894.4	2924.0	2935.0	2930.2	2925.1	2917.5	2903.5	2875.5
29°	2866.7	2891.4	2902.5	2930.5	2960.1	2970.6	2967.6	2964.9	2953.7	2939.3	2912.3
30°	2901.4	2930.8	2938.5	2966.2	2997.2	3006.8	3004.6	3004.7	2989.5	2974.4	2949.6
31°	2937.0	2970.5	2974.9	3002.0	3032.4	3043.1	3040.8	3045.6	3025.7	3009.7	2987.1
32°	2972.6	3010.7	3011.6	3038.2	3070.0	3080.9	3078.3	3086.0	3060.8	3044.9	3024.6
33°	3009.3	3051.4	3048.3	3076.1	3107.4	3118.9	3115.6	3126.8	3097.3	3082.5	3063.8
34°	3045.8	3092.1	3084.5	3114.6	3146.1	3156.7	3153.3	3168.2	3133.4	3119.8	3103.0
35°	3081.6	3134.6	3122.3	3153.8	3184.8	3195.1	3190.3	3209.5	3170.8	3158.7	3144.2
36°	3118.6	3177.3	3160.5	3193.3	3223.1	3232.5	3227.9	3251.5	3207.9	3197.6	3184.6
37°	3154.9	3219.7	3199.2	3233.2	3262.0	3270.5	3266.9	3293.7	3246.3	3237.2	3225.1
38°	3193.1	3261.8	3239.0	3273.6	3302.0	3309.7	3305.6	3335.6	3284.9	3277.2	3266.5
39°	3232.1	3304.4	3279.0	3314.9	3343.0	3348.6	3345.9	3376.9	3323.8	3318.0	3307.2
40°	3272.9	3344.2	3321.0	3357.0	3383.7	3389.1	3386.1	3416.6	3363.8	3359.6	3349.0
41°	3315.4	3384.2	3363.3	3399.4	3426.2	3429.1	3426.4	3454.9	3404.9	3401.6	3390.6
42°	3357.2	3423.2	3407.7	3441.2	3468.0	3470.6	3467.9	3493.0	3447.9	3444.5	3434.1
43°	3400.7	3461.8	3452.2	3483.8	3511.7	3514.3	3511.6	3531.6	3492.3	3486.9	3476.3
44°	3445.6	3500.3	3497.9	3527.9	3556.0	3557.9	3555.7	3571.6	3537.9	3529.8	3520.4

REPORT NUMBER: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3491.3	3539.7	3544.3	3573.8	3601.7	3602.3	3602.5	3610.2	3584.3	3574.2	3564.8
46°	3538.8	3578.0	3592.7	3618.8	3647.8	3646.5	3649.0	3645.3	3633.1	3619.4	3610.3
47°	3588.7	3615.5	3641.8	3664.3	3694.4	3691.0	3695.5	3680.3	3679.7	3665.0	3657.9
48°	3639.2	3654.9	3692.5	3711.5	3741.6	3736.6	3741.1	3716.0	3726.8	3710.8	3706.2
49°	3690.0	3697.1	3744.7	3758.8	3790.6	3782.6	3786.5	3752.6	3773.1	3757.3	3755.0
50°	3743.4	3738.7	3797.7	3808.7	3839.3	3829.3	3830.8	3789.6	3818.9	3805.5	3804.8
51°	3799.4	3781.5	3850.7	3858.7	3889.6	3875.2	3874.9	3823.1	3863.2	3853.7	3855.8
52°	3852.9	3822.1	3902.2	3908.9	3940.9	3921.4	3916.9	3857.1	3906.3	3901.7	3908.0
53°	3900.9	3855.8	3950.1	3961.0	3993.5	3967.5	3956.0	3888.8	3944.9	3948.4	3960.6
54°	3942.6	3880.7	3993.5	4013.9	4046.8	4015.1	3992.3	3917.0	3981.7	3998.0	4015.8
55°	3980.4	3906.4	4031.0	4067.2	4101.3	4061.0	4026.2	3944.0	4015.2	4045.4	4073.2
56°	4019.1	3935.4	4067.8	4123.0	4156.8	4105.7	4056.5	3968.3	4045.5	4092.2	4132.3
57°	4055.6	3965.8	4103.8	4177.3	4212.3	4150.8	4083.2	3988.6	4071.2	4137.3	4189.3
58°	4090.0	3987.1	4138.6	4233.1	4268.7	4195.3	4105.8	4008.3	4092.6	4182.4	4249.2
59°	4116.5	4002.0	4164.4	4285.8	4327.8	4237.4	4124.9	4024.8	4110.2	4225.8	4308.6
60°	4138.2	4020.4	4186.0	4335.2	4385.8	4278.4	4142.3	4037.3	4125.3	4268.9	4369.3
61°	4159.2	4038.7	4206.9	4385.6	4444.4	4319.5	4156.1	4042.3	4139.6	4310.7	4430.4
62°	4179.2	4053.5	4226.2	4433.4	4497.9	4361.7	4165.3	4043.7	4147.9	4350.5	4492.5
63°	4197.2	4065.7	4244.3	4477.4	4546.4	4399.7	4169.2	4042.4	4149.9	4387.6	4553.7
64°	4213.4	4068.1	4259.6	4517.6	4592.3	4436.3	4171.2	4032.3	4147.5	4421.5	4615.3
65°	4211.0	4029.8	4253.8	4553.2	4636.9	4468.2	4165.0	4014.6	4138.2	4450.1	4673.2
66°	4159.1	3996.1	4196.7	4581.0	4679.5	4493.5	4154.2	3989.2	4123.8	4474.4	4728.3
67°	4125.9	3975.3	4161.1	4596.6	4712.7	4514.8	4132.8	3927.5	4098.5	4492.1	4775.3
68°	4105.9	3907.7	4130.6	4565.2	4738.7	4528.6	4080.4	3781.0	4038.7	4502.2	4814.5
69°	4025.1	3730.5	4041.5	4512.4	4755.9	4524.3	3966.2	3532.9	3910.3	4495.7	4841.7
70°	3873.6	3421.0	3894.3	4477.6	4758.3	4494.4	3758.9	3205.4	3693.8	4467.3	4850.4
71°	3642.4	2975.9	3661.8	4401.4	4735.4	4419.5	3475.2	2878.2	3397.8	4389.6	4834.0
72°	3288.7	2572.7	3302.3	4291.5	4662.9	4280.0	3153.5	2604.8	3074.9	4260.6	4788.6
73°	2856.5	2160.5	2864.3	4141.2	4531.1	4069.6	2842.1	2339.1	2767.8	4063.7	4695.5
74°	2408.6	1619.3	2417.8	3910.0	4342.2	3813.0	2546.7	1976.7	2468.8	3810.0	4542.4
75°	1833.3	1078.2	1844.7	3560.4	4090.0	3501.4	2177.0	1409.8	2082.0	3497.3	4294.8
76°	1257.9	545.4	1271.6	3094.7	3718.5	3161.7	1599.5	799.2	1507.3	3137.9	3938.9
77°	687.6	400.0	703.5	2554.7	3212.6	2751.8	1022.1	573.7	842.7	2704.8	3427.4
78°	290.2	254.6	304.2	1912.7	2553.8	2179.8	452.7	356.1	610.7	2123.8	2742.8
79°	226.2	112.6	236.0	1270.7	1864.3	1583.2	210.0	138.5	378.8	1407.9	1969.6
80°	162.2	92.8	167.7	633.6	1174.9	986.5	175.4	115.7	147.0	772.8	1192.4
81°	98.4	77.3	100.5	284.8	496.7	391.3	140.8	98.9	120.9	558.5	561.7
82°	80.3	63.4	82.0	220.7	214.0	206.8	106.4	84.1	102.6	357.2	362.9
83°	64.0	50.4	65.6	156.6	176.8	167.9	89.7	70.5	86.3	155.8	175.9
84°	49.4	39.0	50.5	92.9	139.5	129.1	74.6	58.5	71.3	120.4	142.0
85°	36.0	27.8	36.7	66.2	102.3	90.2	60.3	46.5	58.6	90.2	117.8
86°	25.5	19.2	25.8	43.7	79.7	64.8	47.3	34.6	45.8	65.9	94.4
87°	15.0	10.6	14.9	31.5	55.9	46.8	35.3	23.6	33.1	47.6	66.5
88°	4.5	2.1	4.1	19.3	38.2	32.2	24.3	13.8	22.2	29.5	53.4
89°	3.3	1.9	3.0	7.1	20.4	17.6	13.4	5.5	10.0	11.4	40.6

REPORT NUMBER: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994
CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2251.7	2251.7	2251.7
1°	2253.4	2252.8	2252.8
2°	2257.5	2257.1	2256.3
3°	2264.2	2263.5	2262.3
4°	2273.0	2271.9	2270.7
5°	2283.1	2281.8	2280.3
6°	2295.0	2293.6	2291.1
7°	2308.1	2306.2	2303.0
8°	2323.2	2320.0	2316.9
9°	2340.4	2336.1	2332.1
10°	2359.2	2353.7	2348.6
11°	2379.3	2372.8	2366.8
12°	2400.9	2392.4	2385.4
13°	2423.9	2412.4	2403.3
14°	2446.5	2432.9	2423.2
15°	2469.3	2453.9	2442.7
16°	2493.7	2476.2	2463.9
17°	2518.0	2500.0	2486.8
18°	2543.5	2524.2	2510.5
19°	2569.8	2549.0	2535.0
20°	2595.4	2574.0	2561.5
21°	2622.7	2601.3	2588.5
22°	2651.3	2629.6	2617.1
23°	2681.2	2659.0	2647.3
24°	2711.8	2689.4	2679.1
25°	2742.4	2721.5	2712.3
26°	2775.7	2754.3	2746.9
27°	2809.9	2788.1	2782.5
28°	2844.1	2822.1	2819.8
29°	2880.6	2857.1	2857.8
30°	2917.8	2892.4	2896.5
31°	2955.1	2929.6	2935.9
32°	2992.5	2966.5	2975.1
33°	3030.4	3004.2	3014.1
34°	3068.5	3040.5	3053.5
35°	3108.0	3077.8	3095.1
36°	3149.2	3114.9	3136.1
37°	3188.9	3154.0	3177.3
38°	3230.4	3193.7	3219.0
39°	3270.9	3233.4	3259.9
40°	3313.5	3275.2	3300.4
41°	3355.7	3317.6	3340.2
42°	3399.2	3362.1	3381.9
43°	3443.1	3407.4	3422.3
44°	3487.2	3452.3	3461.8

REPORT NUMBER: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3532.4	3501.0	3501.5
46°	3578.7	3549.1	3541.2
47°	3625.8	3600.0	3582.3
48°	3674.7	3651.9	3624.1
49°	3724.9	3706.0	3667.4
50°	3776.4	3760.0	3711.5
51°	3829.1	3815.8	3756.7
52°	3883.4	3870.4	3803.1
53°	3939.9	3925.3	3849.7
54°	3994.9	3979.3	3896.2
55°	4052.7	4032.7	3940.9
56°	4111.9	4082.3	3982.8
57°	4170.1	4128.1	4022.6
58°	4230.5	4170.1	4059.9
59°	4288.9	4209.1	4093.4
60°	4347.5	4244.5	4123.6
61°	4405.9	4274.6	4148.3
62°	4462.9	4301.7	4167.6
63°	4517.8	4324.5	4184.5
64°	4572.5	4346.3	4199.6
65°	4622.9	4365.8	4214.4
66°	4669.8	4384.4	4222.9
67°	4707.9	4396.4	4222.9
68°	4737.0	4394.9	4184.0
69°	4751.1	4364.5	4059.3
70°	4750.8	4275.6	3796.4
71°	4728.7	4080.7	3380.8
72°	4673.6	3732.2	2947.5
73°	4557.9	3270.9	2488.5
74°	4328.8	2751.6	1957.7
75°	3950.6	2207.8	1296.3
76°	3464.5	1581.9	670.3
77°	2904.2	876.9	485.0
78°	2210.2	632.4	310.0
79°	1396.8	389.4	135.0
80°	718.3	146.3	112.2
81°	515.4	123.1	95.9
82°	329.8	104.0	81.7
83°	144.1	86.5	68.5
84°	113.9	71.0	56.6
85°	86.3	57.9	44.7
86°	64.8	44.9	32.8
87°	46.6	31.9	22.2
88°	28.6	20.3	12.7
89°	10.6	8.3	5.1

REPORT NUMBER: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

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: P1444994

CATALOG NUMBER: XAS180-SFPM (4000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)