

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: P1445018

Luminaire Tested: XAS180-SFPM (5000K-108W-T5)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445018
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-108W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 5
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28062 (1 lamp)
Luminaire Lumens: 17742.7 lumens
Efficiency: 63.2%
Efficacy: 161.6 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): 109.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

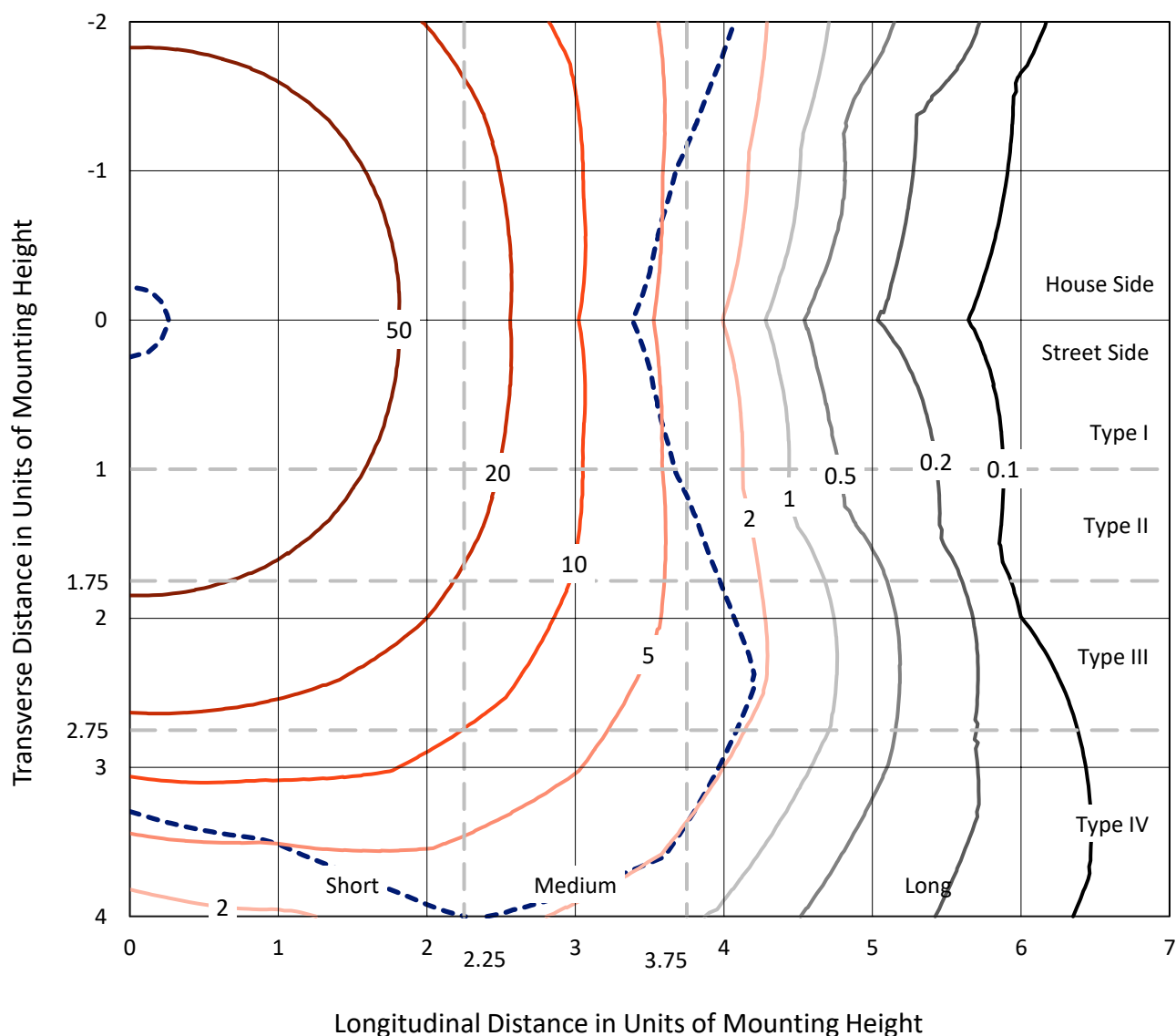
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

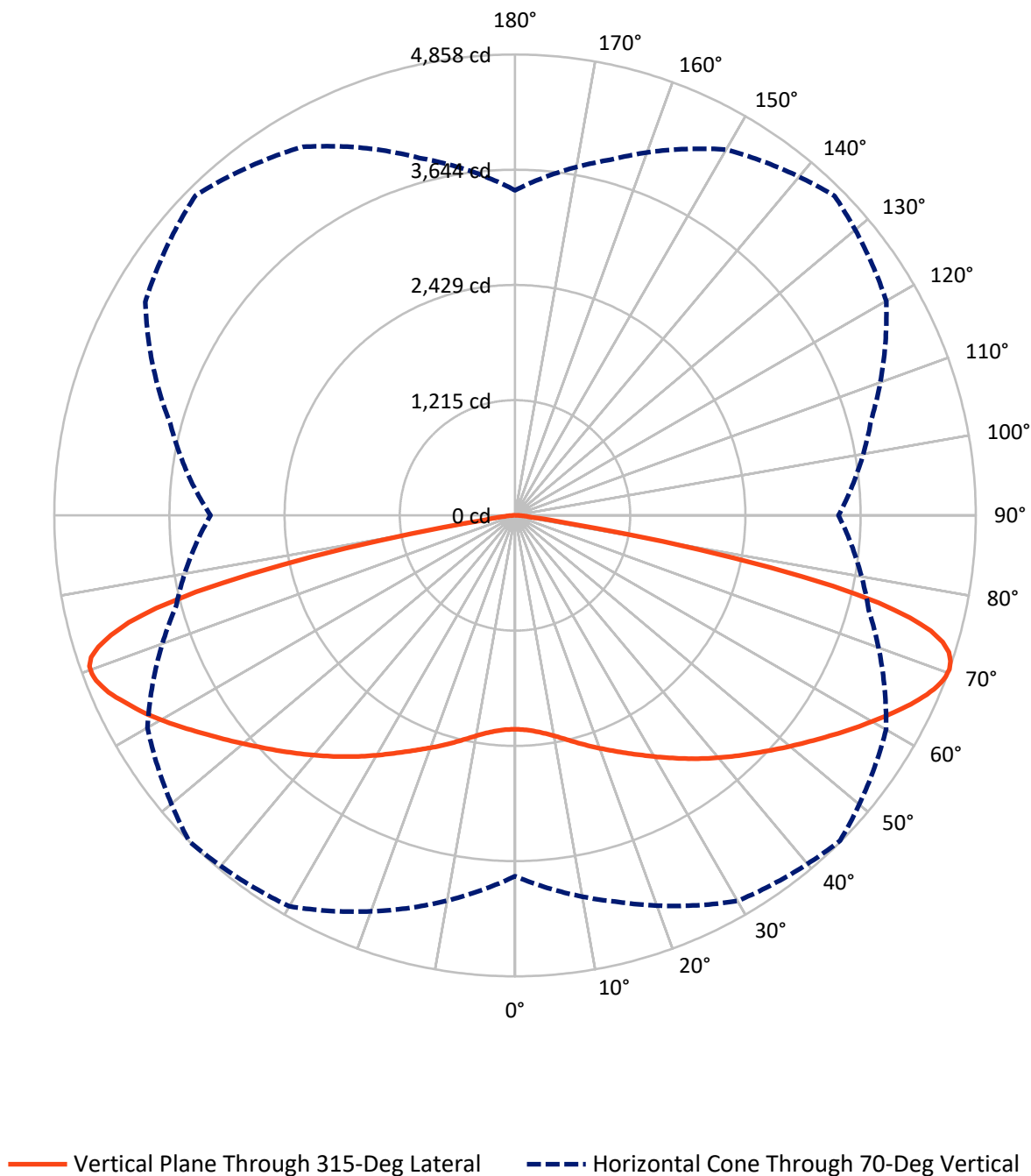


Based on 3 foot mounting height. Maximum calculated value = 251.1 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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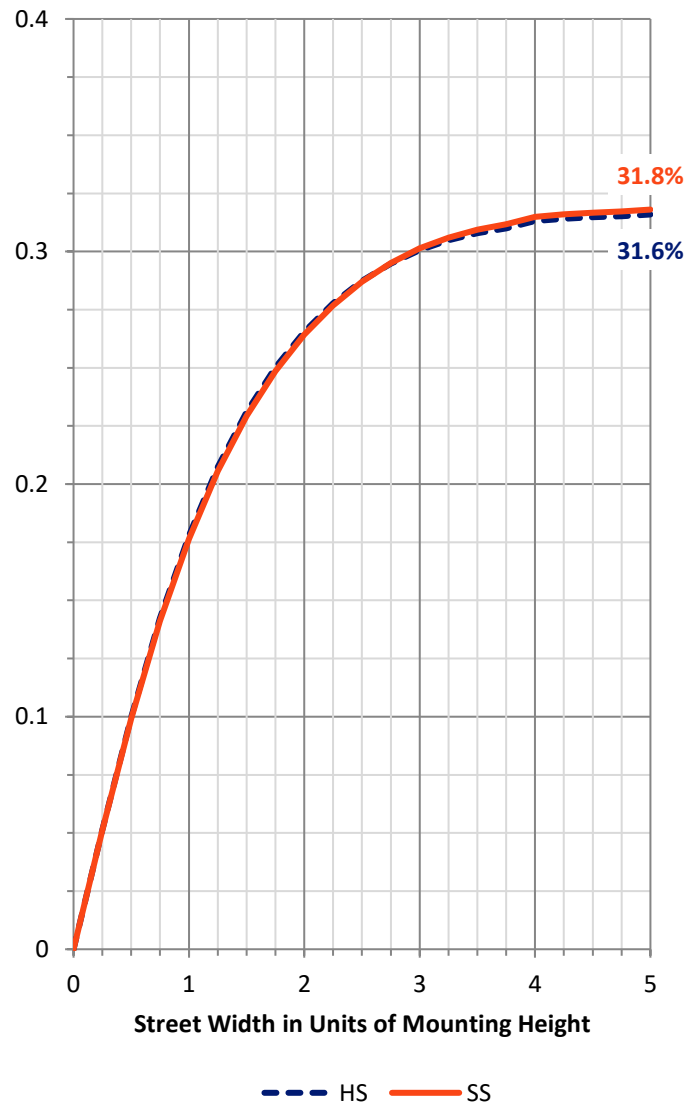
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8829.0	0.0	8829.0
	% Lamp	31.5	0.0	31.5
Street Side	Lumens	8913.6	0.0	8913.6
	% Lamp	31.8	0.0	31.8
Total	Lumens	17742.7	0.0	17742.7
	% Lamp	63.2	0.0	63.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	220.3	1.2	0.8
10°-20°	704.9	4.0	2.5
20°-30°	1281.7	7.2	4.6
30°-40°	1963.2	11.1	7.0
40°-50°	2736.3	15.4	9.8
50°-60°	3581.3	20.2	12.8
60°-70°	4280.0	24.1	15.3
70°-80°	2835.7	16.0	10.1
80°-90°	139.4	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°	17742.7	100.0	63.2
0°-180°	17742.7	100.0	63.2

Coefficient of Utilization



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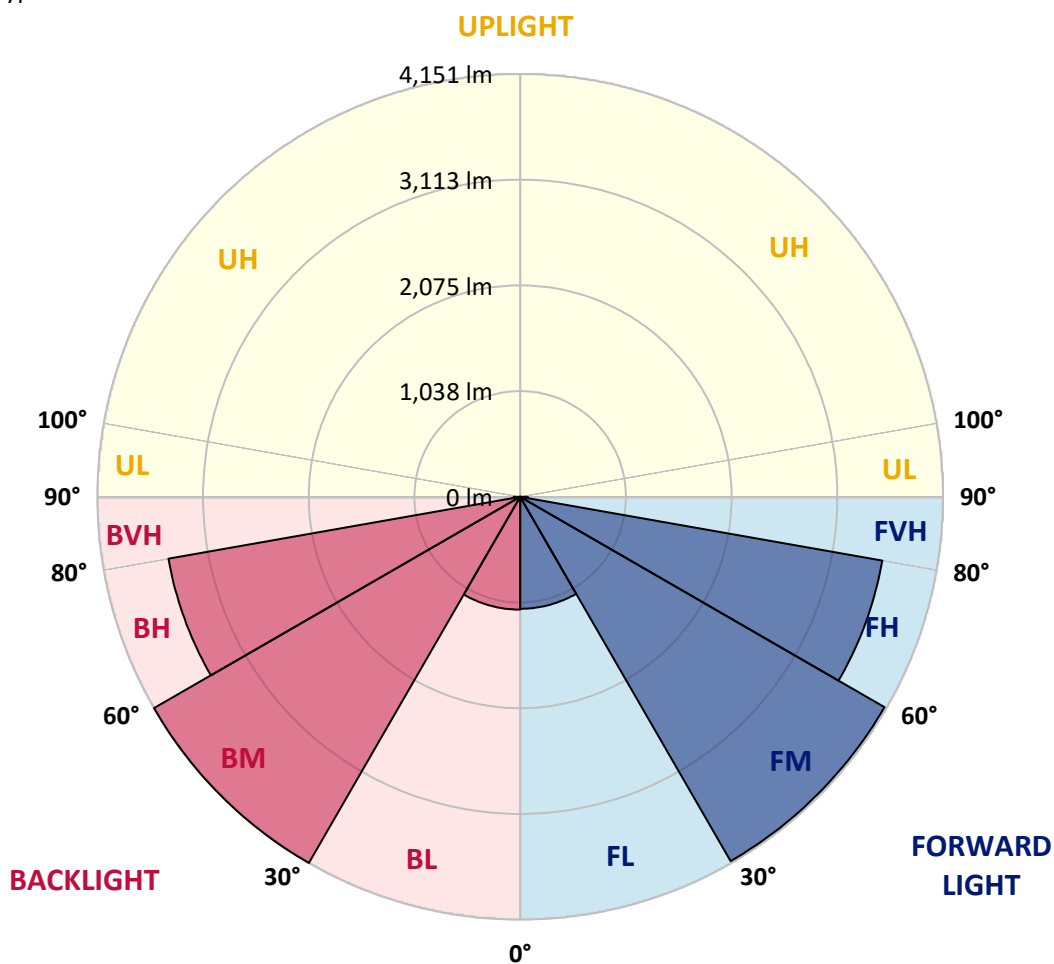
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1099.2	3.9			
FM	(30°-60°)	4129.8	14.7			
FH	(60°-80°)	3609.9	12.9			G2/5000
FVH	(80°-90°)	74.8	0.3			G1/100
BL	(0°-30°)	1107.7	3.9	B3/2500		
BM	(30°-60°)	4150.9	14.8	B3/5000		
BH	(60°-80°)	3505.8	12.5	B4/5000		G2/5000
BVH	(80°-90°)	64.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10319.3	36.8			

BUG Rating: B4-U0-G2

Type V Short



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CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3
1°	2256.4	2256.0	2256.4	2256.0	2256.0	2255.8	2254.1	2254.3	2254.3	2255.1	2255.6
2°	2259.9	2259.1	2258.9	2258.3	2257.4	2256.6	2255.2	2255.2	2255.6	2256.7	2257.9
3°	2265.9	2264.4	2263.5	2262.1	2261.6	2260.4	2258.9	2258.7	2259.1	2260.5	2262.3
4°	2274.3	2272.5	2270.8	2269.3	2267.8	2266.3	2264.7	2264.6	2265.1	2267.0	2269.3
5°	2283.9	2281.6	2279.7	2277.3	2275.1	2273.8	2271.7	2272.5	2274.0	2276.1	2278.5
6°	2294.8	2292.0	2290.7	2287.9	2284.5	2282.4	2280.3	2281.0	2283.3	2287.1	2290.2
7°	2306.7	2303.9	2303.1	2300.0	2296.6	2293.5	2290.9	2292.0	2294.1	2299.8	2304.0
8°	2320.6	2317.6	2316.2	2313.6	2309.9	2306.4	2304.6	2305.9	2308.4	2313.6	2319.6
9°	2335.8	2333.0	2331.0	2328.5	2325.3	2321.0	2318.4	2320.3	2324.8	2330.2	2336.3
10°	2352.4	2349.7	2347.9	2345.2	2342.3	2337.4	2335.1	2337.1	2342.6	2349.1	2354.4
11°	2370.6	2367.4	2366.7	2364.1	2360.4	2355.6	2352.6	2355.8	2361.8	2370.0	2374.7
12°	2389.2	2385.0	2385.6	2384.1	2380.0	2375.0	2371.3	2375.5	2382.5	2391.6	2397.0
13°	2407.1	2403.2	2405.7	2405.9	2400.6	2395.8	2390.7	2395.8	2405.0	2414.4	2420.9
14°	2427.0	2422.6	2425.8	2427.7	2422.7	2416.9	2411.0	2417.4	2427.1	2438.9	2445.0
15°	2446.6	2442.4	2446.5	2450.8	2445.4	2438.5	2432.7	2438.8	2450.9	2463.8	2469.1
16°	2467.9	2464.7	2468.1	2473.6	2469.3	2461.7	2456.1	2461.9	2475.5	2489.6	2494.8
17°	2490.8	2487.7	2491.7	2497.5	2494.4	2485.4	2479.4	2485.7	2501.8	2514.5	2520.3
18°	2514.6	2510.4	2515.5	2521.4	2519.2	2510.0	2504.1	2510.9	2527.6	2540.3	2545.0
19°	2539.0	2534.5	2540.4	2546.2	2545.2	2535.7	2529.7	2537.5	2554.4	2566.8	2569.7
20°	2565.6	2560.3	2565.6	2571.5	2571.6	2562.9	2556.9	2565.5	2582.0	2593.1	2594.5
21°	2592.6	2587.3	2591.1	2597.5	2598.9	2590.4	2584.3	2594.3	2610.0	2618.6	2620.5
22°	2621.3	2615.5	2618.1	2623.9	2628.1	2619.3	2613.9	2624.3	2639.7	2646.6	2647.8
23°	2651.6	2645.4	2645.9	2652.1	2657.6	2649.5	2644.0	2655.9	2669.7	2674.7	2676.7
24°	2683.4	2676.5	2674.8	2680.9	2687.7	2680.3	2675.9	2688.0	2701.1	2704.0	2706.4
25°	2716.7	2708.6	2705.1	2711.6	2719.5	2712.4	2709.4	2721.6	2732.1	2734.5	2735.8
26°	2751.3	2741.7	2736.5	2742.6	2751.2	2744.0	2743.4	2755.5	2764.0	2765.4	2765.9
27°	2787.0	2775.4	2768.2	2775.0	2782.8	2776.4	2778.0	2789.9	2796.4	2797.8	2797.2
28°	2824.3	2809.7	2800.7	2807.9	2815.1	2809.6	2813.9	2823.9	2830.1	2831.3	2828.7
29°	2862.4	2844.3	2834.6	2842.4	2847.4	2843.1	2851.5	2858.4	2863.7	2866.0	2861.7
30°	2901.1	2878.9	2869.3	2877.3	2880.6	2877.7	2890.1	2893.8	2898.0	2901.0	2894.9
31°	2940.6	2914.4	2905.2	2913.3	2913.9	2911.3	2929.0	2928.9	2932.7	2937.1	2929.8
32°	2979.8	2950.0	2941.0	2949.8	2947.5	2947.5	2967.2	2965.2	2968.1	2973.7	2964.7
33°	3019.0	2986.5	2978.7	2985.7	2983.2	2982.4	3006.6	3000.3	3004.4	3010.3	3000.8
34°	3058.4	3022.9	3015.6	3022.5	3018.5	3016.6	3045.1	3035.3	3040.7	3046.3	3037.1
35°	3100.0	3059.0	3053.6	3059.8	3054.6	3051.0	3084.8	3070.0	3077.5	3084.0	3075.2
36°	3141.1	3096.2	3092.5	3097.9	3092.1	3086.8	3124.1	3105.7	3116.1	3122.1	3114.2
37°	3182.3	3133.9	3132.1	3136.8	3129.8	3121.3	3163.2	3141.9	3154.4	3160.8	3154.1
38°	3224.1	3173.0	3171.8	3175.6	3167.3	3157.4	3203.7	3177.4	3191.8	3199.6	3193.7
39°	3265.1	3212.1	3211.2	3214.9	3205.0	3194.9	3244.6	3214.1	3230.5	3238.0	3232.4
40°	3305.7	3253.0	3250.5	3254.9	3243.3	3232.7	3285.3	3251.9	3269.6	3278.2	3272.9
41°	3345.6	3294.5	3291.2	3294.7	3282.9	3271.8	3326.0	3291.5	3308.1	3318.3	3311.6
42°	3387.3	3337.1	3332.8	3336.4	3322.7	3311.6	3365.1	3331.4	3348.0	3360.1	3353.9
43°	3427.8	3381.4	3375.1	3378.6	3364.1	3353.1	3403.0	3373.0	3388.3	3402.4	3395.9
44°	3467.4	3426.9	3417.7	3421.3	3405.3	3395.8	3439.5	3415.6	3428.5	3444.0	3438.8

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CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3507.1	3472.3	3461.5	3463.6	3447.4	3440.3	3475.1	3458.9	3469.6	3487.0	3483.0
46°	3546.9	3520.3	3506.9	3507.8	3491.4	3486.2	3511.3	3504.1	3511.3	3530.8	3527.9
47°	3588.1	3571.1	3554.0	3553.9	3536.9	3533.7	3548.7	3549.4	3555.5	3576.6	3575.3
48°	3629.9	3621.2	3601.7	3601.0	3582.2	3581.9	3583.8	3596.6	3601.3	3621.5	3623.3
49°	3673.2	3673.9	3651.9	3649.5	3629.0	3630.6	3618.6	3643.1	3647.5	3668.2	3670.6
50°	3717.4	3725.3	3702.1	3698.3	3675.6	3679.7	3653.6	3689.5	3693.3	3717.4	3720.1
51°	3762.7	3778.4	3753.8	3748.3	3725.0	3728.0	3690.2	3735.0	3741.0	3767.2	3772.2
52°	3809.2	3832.7	3808.3	3801.7	3775.3	3775.8	3727.8	3782.0	3790.0	3819.7	3823.9
53°	3855.8	3886.0	3863.9	3854.4	3825.3	3821.9	3763.6	3828.1	3838.9	3871.0	3876.7
54°	3902.5	3939.2	3920.2	3910.9	3876.1	3866.8	3799.1	3872.1	3889.7	3923.6	3929.6
55°	3947.2	3987.8	3977.8	3966.5	3926.5	3908.9	3834.0	3912.1	3940.8	3980.3	3985.2
56°	3989.2	4036.1	4036.7	4025.1	3978.4	3948.7	3867.5	3952.2	3991.8	4037.3	4042.2
57°	4029.1	4081.4	4095.6	4086.5	4029.6	3985.5	3897.4	3988.3	4042.4	4095.6	4097.7
58°	4066.4	4124.2	4155.8	4148.9	4080.3	4018.3	3923.0	4020.5	4093.0	4156.0	4150.8
59°	4100.0	4163.9	4217.4	4212.0	4131.2	4045.4	3946.8	4050.3	4142.6	4217.4	4202.0
60°	4130.2	4199.9	4277.7	4277.7	4180.1	4068.5	3965.5	4075.6	4189.8	4279.6	4251.4
61°	4154.9	4232.5	4336.2	4343.0	4228.5	4089.1	3980.1	4097.5	4238.7	4340.8	4301.0
62°	4174.2	4259.6	4393.6	4410.3	4275.3	4103.9	3988.3	4113.6	4284.1	4401.2	4348.6
63°	4191.2	4284.2	4449.5	4478.1	4323.3	4111.6	3988.8	4126.1	4329.6	4457.0	4393.1
64°	4206.3	4304.2	4500.6	4545.1	4368.1	4113.3	3982.4	4133.6	4375.0	4511.0	4435.0
65°	4221.1	4321.1	4550.0	4611.1	4411.1	4112.5	3971.3	4135.0	4417.0	4566.2	4471.7
66°	4229.7	4337.2	4594.0	4674.3	4448.4	4104.3	3954.6	4129.0	4454.7	4621.5	4505.9
67°	4229.7	4348.5	4631.6	4733.0	4479.2	4089.5	3927.4	4116.0	4485.7	4672.6	4533.5
68°	4190.7	4346.2	4663.7	4784.7	4500.5	4065.2	3843.6	4089.3	4510.2	4713.1	4515.8
69°	4065.8	4313.3	4684.5	4823.4	4512.9	3998.7	3667.9	4022.7	4522.3	4745.2	4474.5
70°	3802.5	4218.4	4692.3	4848.0	4517.7	3860.8	3411.2	3887.7	4520.3	4763.6	4452.3
71°	3386.2	4004.3	4681.4	4858.1	4487.2	3646.8	3093.4	3675.6	4484.1	4760.6	4390.7
72°	2952.3	3654.3	4644.1	4843.7	4408.9	3373.5	2803.5	3397.4	4389.3	4711.5	4287.5
73°	2492.5	3198.2	4553.3	4793.1	4274.9	3079.9	2579.9	3097.2	4230.6	4605.2	4157.7
74°	1960.9	2700.5	4354.0	4685.3	4087.4	2813.0	2299.1	2821.1	4023.6	4443.3	3943.5
75°	1298.3	2158.3	3989.0	4493.5	3841.2	2516.0	1756.8	2529.4	3760.4	4227.5	3624.2
76°	671.3	1514.7	3496.6	4185.4	3549.9	2069.9	1214.4	2103.8	3470.1	3908.9	3188.4
77°	485.8	814.9	2963.1	3734.6	3192.1	1393.1	672.8	1523.5	3124.4	3459.1	2648.3
78°	310.5	585.7	2316.0	3073.0	2694.6	722.0	289.7	943.3	2645.3	2860.6	2001.0
79°	135.2	364.7	1502.4	2341.8	1999.3	522.0	228.2	367.1	1973.3	2164.7	1353.7
80°	112.3	143.7	766.5	1524.9	1210.6	327.4	166.7	283.5	1301.3	1464.4	708.6
81°	96.0	118.4	554.4	771.7	594.7	132.7	106.4	200.0	635.7	771.4	325.6
82°	81.8	100.0	350.8	554.9	438.4	112.9	90.9	116.4	283.0	312.0	248.4
83°	68.6	83.5	147.2	352.8	286.9	95.6	76.9	98.2	222.4	243.5	171.2
84°	56.7	68.5	115.4	150.8	135.5	79.6	63.8	81.5	161.8	175.0	94.6
85°	44.8	56.0	88.0	124.3	102.9	65.1	51.3	66.3	101.7	106.8	68.4
86°	32.9	43.6	66.0	100.0	75.6	52.2	39.8	52.6	73.0	83.7	45.8
87°	22.2	31.2	48.1	73.5	55.5	39.5	28.3	39.8	52.7	59.4	28.5
88°	12.7	20.2	30.1	58.9	35.7	26.7	19.8	28.3	36.4	37.0	20.2
89°	5.1	8.7	12.2	44.7	15.9	14.3	11.2	19.6	25.1	25.6	11.9

REPORT NUMBER: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3
1°	2256.0	2256.5	2256.9	2257.6	2258.0	2258.4	2258.6	2257.2	2256.8	2256.6	2257.0
2°	2258.8	2260.0	2260.4	2261.7	2262.4	2262.7	2263.0	2261.7	2261.8	2261.2	2261.3
3°	2263.5	2265.5	2266.8	2268.0	2269.2	2269.7	2270.4	2268.6	2268.7	2268.2	2268.5
4°	2271.4	2273.7	2275.2	2276.7	2278.1	2278.7	2279.5	2278.1	2277.6	2277.2	2276.9
5°	2281.0	2284.0	2285.8	2288.0	2289.1	2289.8	2290.0	2288.5	2288.3	2287.7	2287.3
6°	2293.3	2296.4	2299.1	2301.4	2302.5	2302.5	2302.6	2300.7	2300.8	2300.4	2300.0
7°	2307.8	2310.6	2314.0	2316.7	2317.7	2318.4	2319.1	2316.5	2316.2	2315.3	2314.9
8°	2323.5	2326.8	2330.6	2333.9	2335.5	2336.8	2336.2	2333.2	2332.6	2331.7	2330.5
9°	2340.6	2344.3	2348.8	2353.3	2355.7	2356.2	2354.8	2350.5	2350.6	2350.3	2349.0
10°	2359.5	2364.0	2369.1	2374.5	2377.5	2377.5	2375.0	2370.7	2370.4	2370.9	2368.4
11°	2380.3	2385.3	2391.3	2397.8	2401.2	2400.7	2397.5	2393.0	2392.9	2393.4	2390.1
12°	2402.0	2407.1	2414.5	2422.4	2426.4	2425.3	2421.6	2416.1	2416.8	2416.7	2412.9
13°	2424.3	2429.3	2437.6	2448.8	2453.6	2452.1	2446.5	2441.0	2441.9	2441.9	2437.3
14°	2447.7	2452.4	2462.1	2474.9	2481.6	2479.6	2473.3	2466.8	2468.1	2468.8	2462.7
15°	2471.3	2475.5	2486.9	2502.0	2510.8	2508.4	2500.6	2493.5	2495.4	2496.9	2488.7
16°	2495.5	2499.8	2511.8	2529.0	2540.4	2539.3	2529.2	2521.1	2523.3	2525.0	2515.1
17°	2519.9	2524.0	2537.3	2556.3	2570.3	2569.2	2559.3	2550.3	2552.0	2553.8	2542.7
18°	2545.0	2549.1	2563.5	2583.1	2599.8	2600.5	2589.7	2579.4	2582.4	2583.5	2570.5
19°	2570.3	2575.8	2589.4	2610.5	2630.2	2631.5	2620.3	2609.7	2612.9	2613.3	2597.6
20°	2596.2	2602.6	2616.9	2639.8	2659.8	2663.6	2652.3	2641.3	2644.8	2644.2	2626.0
21°	2623.6	2630.3	2645.2	2668.6	2690.3	2696.6	2686.1	2674.1	2676.7	2675.8	2654.2
22°	2652.1	2659.2	2674.7	2699.1	2722.5	2730.1	2720.5	2707.3	2710.6	2707.7	2684.7
23°	2680.4	2688.9	2706.0	2731.0	2754.7	2765.0	2754.1	2742.1	2745.6	2740.0	2715.9
24°	2711.1	2720.5	2737.8	2763.3	2788.3	2799.3	2789.1	2777.6	2780.5	2772.5	2746.5
25°	2741.2	2752.3	2770.2	2795.8	2822.4	2834.0	2825.7	2813.9	2815.6	2806.3	2778.1
26°	2773.2	2786.7	2803.8	2830.1	2857.2	2868.8	2861.9	2852.0	2850.6	2839.7	2811.7
27°	2805.2	2820.9	2837.4	2864.0	2891.6	2903.3	2897.8	2889.8	2886.0	2873.3	2844.8
28°	2837.7	2858.6	2871.8	2899.0	2928.7	2939.7	2934.9	2929.8	2922.2	2908.1	2880.1
29°	2871.3	2896.0	2907.2	2935.2	2964.8	2975.4	2972.4	2969.7	2958.4	2944.0	2917.0
30°	2906.0	2935.5	2943.2	2970.9	3002.0	3011.6	3009.4	3009.5	2994.2	2979.1	2954.4
31°	2941.7	2975.3	2979.7	3006.8	3037.3	3048.0	3045.6	3050.5	3030.5	3014.5	2991.8
32°	2977.4	3015.5	3016.4	3043.1	3074.9	3085.8	3083.3	3091.0	3065.7	3049.8	3029.5
33°	3014.1	3056.3	3053.2	3081.0	3112.4	3123.9	3120.6	3131.8	3102.2	3087.4	3068.7
34°	3050.7	3097.1	3089.4	3119.6	3151.2	3161.7	3158.3	3173.2	3138.5	3124.8	3108.0
35°	3086.6	3139.7	3127.3	3158.9	3189.9	3200.2	3195.4	3214.7	3175.8	3163.8	3149.2
36°	3123.6	3182.3	3165.6	3198.5	3228.3	3237.7	3233.1	3256.7	3213.1	3202.7	3189.7
37°	3160.0	3224.9	3204.3	3238.4	3267.3	3275.7	3272.1	3298.9	3251.5	3242.4	3230.3
38°	3198.2	3267.1	3244.2	3278.9	3307.3	3315.0	3310.9	3340.9	3290.1	3282.5	3271.7
39°	3237.3	3309.7	3284.3	3320.2	3348.3	3354.0	3351.2	3382.3	3329.2	3323.3	3312.5
40°	3278.1	3349.5	3326.3	3362.4	3389.2	3394.5	3391.5	3422.0	3369.2	3365.0	3354.3
41°	3320.7	3389.7	3368.7	3404.8	3431.6	3434.6	3431.9	3460.4	3410.3	3407.0	3396.0
42°	3362.6	3428.7	3413.1	3446.8	3473.6	3476.2	3473.4	3498.6	3453.5	3450.0	3439.6
43°	3406.2	3467.3	3457.7	3489.4	3517.4	3520.0	3517.3	3537.2	3497.9	3492.5	3481.8
44°	3451.1	3505.9	3503.5	3533.6	3561.7	3563.6	3561.4	3577.3	3543.6	3535.5	3526.0

REPORT NUMBER: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3496.9	3545.3	3549.9	3579.5	3607.5	3608.0	3608.3	3616.0	3590.1	3579.9	3570.5
46°	3544.5	3583.7	3598.4	3624.6	3653.6	3652.4	3654.9	3651.2	3638.9	3625.2	3616.1
47°	3594.4	3621.3	3647.6	3670.2	3700.4	3696.9	3701.4	3686.2	3685.6	3670.8	3663.7
48°	3645.0	3660.7	3698.5	3717.4	3747.6	3742.6	3747.1	3722.0	3732.8	3716.7	3712.2
49°	3695.9	3703.1	3750.7	3764.8	3796.6	3788.6	3792.5	3758.6	3779.1	3763.3	3761.0
50°	3749.4	3744.7	3803.8	3814.8	3845.5	3835.4	3836.9	3795.7	3825.0	3811.6	3810.9
51°	3805.5	3787.6	3856.8	3864.9	3895.8	3881.4	3881.1	3829.2	3869.4	3859.9	3862.0
52°	3859.0	3828.2	3908.5	3915.1	3947.2	3927.6	3923.2	3863.3	3912.5	3907.9	3914.2
53°	3907.2	3862.0	3956.4	3967.4	3999.9	3973.9	3962.4	3895.0	3951.2	3954.7	3966.9
54°	3948.9	3886.9	3999.9	4020.3	4053.3	4021.5	3998.7	3923.3	3988.1	4004.4	4022.2
55°	3986.8	3912.7	4037.5	4073.7	4107.9	4067.5	4032.6	3950.3	4021.7	4051.9	4079.7
56°	4025.5	3941.7	4074.3	4129.6	4163.4	4112.3	4063.0	3974.7	4052.0	4098.7	4138.9
57°	4062.1	3972.2	4110.4	4184.0	4219.1	4157.5	4089.7	3995.0	4077.7	4143.9	4196.0
58°	4096.6	3993.5	4145.3	4239.9	4275.6	4202.0	4112.4	4014.7	4099.1	4189.2	4256.0
59°	4123.1	4008.4	4171.1	4292.7	4334.7	4244.2	4131.6	4031.2	4116.8	4232.5	4315.5
60°	4144.8	4026.9	4192.7	4342.2	4392.8	4285.3	4148.9	4043.7	4131.9	4275.8	4376.3
61°	4165.9	4045.1	4213.6	4392.7	4451.5	4326.4	4162.8	4048.8	4146.2	4317.6	4437.5
62°	4185.9	4060.0	4233.0	4440.5	4505.1	4368.6	4172.0	4050.2	4154.6	4357.5	4499.7
63°	4203.9	4072.2	4251.1	4484.5	4553.7	4406.7	4175.9	4048.9	4156.6	4394.6	4561.0
64°	4220.1	4074.6	4266.4	4524.9	4599.6	4443.4	4177.9	4038.8	4154.1	4428.6	4622.7
65°	4217.8	4036.3	4260.7	4560.5	4644.4	4475.3	4171.7	4021.0	4144.8	4457.2	4680.7
66°	4165.8	4002.5	4203.4	4588.3	4687.0	4500.7	4160.9	3995.6	4130.4	4481.6	4735.9
67°	4132.5	3981.6	4167.8	4604.0	4720.2	4522.0	4139.5	3933.8	4105.1	4499.3	4783.0
68°	4112.5	3913.9	4137.2	4572.6	4746.3	4535.8	4086.9	3787.0	4045.2	4509.4	4822.2
69°	4031.6	3736.5	4048.0	4519.6	4763.5	4531.6	3972.6	3538.6	3916.6	4502.9	4849.5
70°	3879.9	3426.5	3900.5	4484.7	4765.9	4501.6	3764.9	3210.5	3699.7	4474.4	4858.2
71°	3648.2	2980.7	3667.7	4408.5	4742.9	4426.6	3480.8	2882.8	3403.3	4396.7	4841.7
72°	3294.0	2576.8	3307.6	4298.4	4670.4	4286.8	3158.5	2608.9	3079.9	4267.4	4796.2
73°	2861.0	2164.0	2868.9	4147.9	4538.3	4076.2	2846.7	2342.9	2772.3	4070.2	4703.1
74°	2412.5	1621.9	2421.7	3916.3	4349.1	3819.1	2550.8	1979.9	2472.8	3816.1	4549.7
75°	1836.2	1079.9	1847.6	3566.1	4096.6	3507.0	2180.5	1412.0	2085.3	3502.9	4301.7
76°	1260.0	546.3	1273.6	3099.7	3724.5	3166.8	1602.1	800.4	1509.7	3142.9	3945.2
77°	688.7	400.6	704.6	2558.7	3217.8	2756.2	1023.7	574.6	844.1	2709.2	3432.8
78°	290.6	255.0	304.7	1915.7	2557.9	2183.3	453.4	356.6	611.7	2127.2	2747.2
79°	226.5	112.8	236.3	1272.7	1867.3	1585.7	210.3	138.7	379.4	1410.2	1972.7
80°	162.4	93.0	168.0	634.7	1176.8	988.1	175.7	115.9	147.2	774.1	1194.3
81°	98.5	77.4	100.6	285.2	497.5	391.9	141.0	99.1	121.1	559.4	562.6
82°	80.4	63.5	82.1	221.0	214.4	207.2	106.6	84.2	102.7	357.7	363.4
83°	64.1	50.4	65.7	156.8	177.1	168.2	89.9	70.6	86.5	156.0	176.2
84°	49.5	39.0	50.5	93.1	139.8	129.3	74.7	58.6	71.4	120.6	142.2
85°	36.1	27.8	36.8	66.3	102.5	90.3	60.4	46.6	58.6	90.4	118.0
86°	25.5	19.2	25.9	43.8	79.8	64.9	47.3	34.6	45.9	66.0	94.5
87°	15.0	10.6	15.0	31.6	56.0	46.9	35.4	23.6	33.2	47.7	66.6
88°	4.5	2.1	4.1	19.3	38.2	32.3	24.4	13.8	22.2	29.6	53.5
89°	3.3	1.9	3.0	7.2	20.5	17.6	13.4	5.6	10.0	11.5	40.6

REPORT NUMBER: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2255.3	2255.3	2255.3
1°	2257.0	2256.4	2256.4
2°	2261.1	2260.7	2259.9
3°	2267.8	2267.2	2265.9
4°	2276.6	2275.6	2274.3
5°	2286.8	2285.4	2283.9
6°	2298.6	2297.2	2294.8
7°	2311.8	2309.9	2306.7
8°	2326.9	2323.7	2320.6
9°	2344.2	2339.8	2335.8
10°	2362.9	2357.5	2352.4
11°	2383.1	2376.6	2370.6
12°	2404.7	2396.3	2389.2
13°	2427.7	2416.2	2407.1
14°	2450.4	2436.8	2427.0
15°	2473.3	2457.8	2446.6
16°	2497.7	2480.2	2467.9
17°	2522.0	2504.0	2490.8
18°	2547.6	2528.3	2514.6
19°	2573.9	2553.1	2539.0
20°	2599.5	2578.2	2565.6
21°	2626.9	2605.5	2592.6
22°	2655.5	2633.8	2621.3
23°	2685.5	2663.3	2651.6
24°	2716.1	2693.7	2683.4
25°	2746.8	2725.9	2716.7
26°	2780.1	2758.7	2751.3
27°	2814.4	2792.6	2787.0
28°	2848.7	2826.6	2824.3
29°	2885.2	2861.7	2862.4
30°	2922.5	2897.0	2901.1
31°	2959.8	2934.2	2940.6
32°	2997.3	2971.3	2979.8
33°	3035.3	3009.0	3019.0
34°	3073.4	3045.4	3058.4
35°	3113.0	3082.8	3100.0
36°	3154.2	3119.9	3141.1
37°	3194.0	3159.0	3182.3
38°	3235.6	3198.8	3224.1
39°	3276.1	3238.6	3265.1
40°	3318.8	3280.5	3305.7
41°	3361.1	3323.0	3345.6
42°	3404.6	3367.5	3387.3
43°	3448.6	3412.9	3427.8
44°	3492.8	3457.9	3467.4

REPORT NUMBER: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3538.1	3506.6	3507.1
46°	3584.4	3554.7	3546.9
47°	3631.6	3605.8	3588.1
48°	3680.6	3657.7	3629.9
49°	3730.8	3711.9	3673.2
50°	3782.5	3766.0	3717.4
51°	3835.3	3821.9	3762.7
52°	3889.7	3876.6	3809.2
53°	3946.2	3931.6	3855.8
54°	4001.3	3985.6	3902.5
55°	4059.2	4039.1	3947.2
56°	4118.5	4088.9	3989.2
57°	4176.8	4134.7	4029.1
58°	4237.3	4176.8	4066.4
59°	4295.8	4215.8	4100.0
60°	4354.4	4251.3	4130.2
61°	4413.0	4281.5	4154.9
62°	4470.1	4308.6	4174.2
63°	4525.0	4331.4	4191.2
64°	4579.8	4353.2	4206.3
65°	4630.3	4372.8	4221.1
66°	4677.3	4391.4	4229.7
67°	4715.4	4403.4	4229.7
68°	4744.6	4402.0	4190.7
69°	4758.8	4371.5	4065.8
70°	4758.4	4282.5	3802.5
71°	4736.3	4087.2	3386.2
72°	4681.1	3738.2	2952.3
73°	4565.2	3276.1	2492.5
74°	4335.8	2756.0	1960.9
75°	3956.9	2211.3	1298.3
76°	3470.0	1584.4	671.3
77°	2908.8	878.3	485.8
78°	2213.7	633.4	310.5
79°	1399.1	390.0	135.2
80°	719.4	146.6	112.3
81°	516.2	123.3	96.0
82°	330.3	104.2	81.8
83°	144.4	86.6	68.6
84°	114.1	71.1	56.7
85°	86.4	58.0	44.8
86°	64.9	45.0	32.9
87°	46.7	31.9	22.2
88°	28.7	20.3	12.7
89°	10.6	8.3	5.1

REPORT NUMBER: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445018

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)