

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: P1436700

Luminaire Tested: XAS180-SFPM (3000K-108W-T3-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436700
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 (3000K-108W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

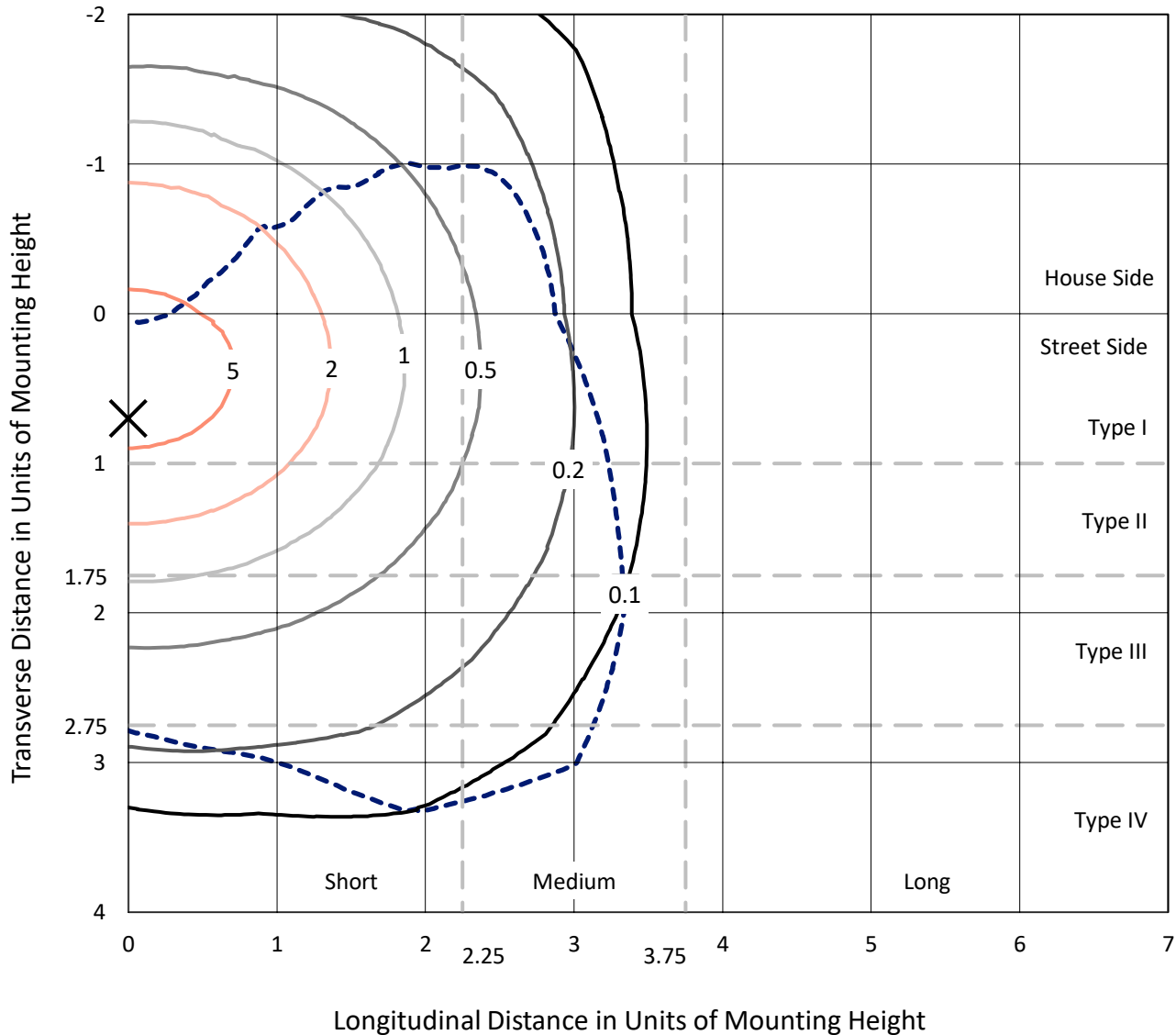
Lumens per Lamp: 24748 (1 lamp)
Luminaire Lumens: 14539.8 lumens
Efficiency: 58.8%
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.9
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

REPORT NUMBER: P1436700
 CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

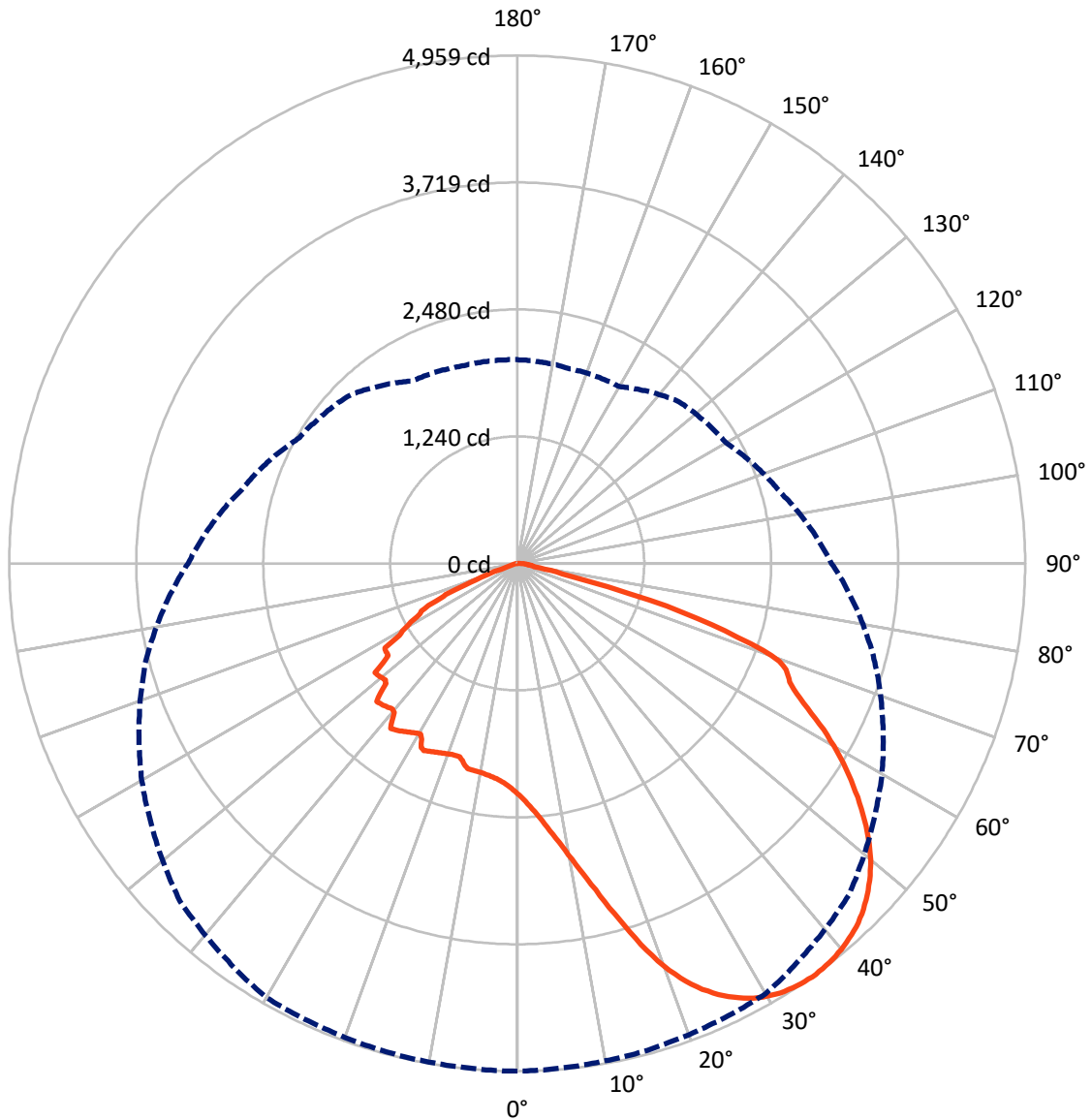


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

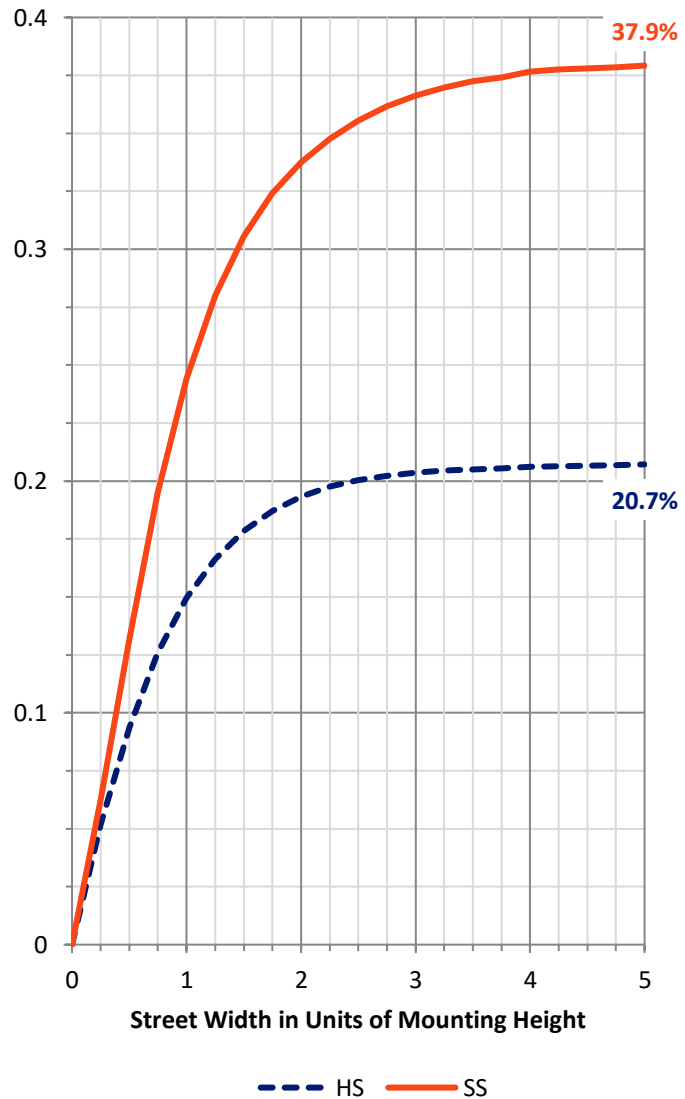
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5150.9	0.0	5150.9
	% Lamp	20.8	0.0	20.8
Street Side	Lumens	9388.9	0.0	9388.9
	% Lamp	37.9	0.0	37.9
Total	Lumens	14539.8	0.0	14539.8
	% Lamp	58.8	0.0	58.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	224.5	1.5	0.9
10°-20°	758.4	5.2	3.1
20°-30°	1434.1	9.9	5.8
30°-40°	2108.4	14.5	8.5
40°-50°	2663.2	18.3	10.8
50°-60°	2949.0	20.3	11.9
60°-70°	2774.6	19.1	11.2
70°-80°	1512.2	10.4	6.1
80°-90°	115.4	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°	14539.8	100.0	58.8
0°-180°	14539.8	100.0	58.8

Coefficient of Utilization



REPORT NUMBER: P1436700

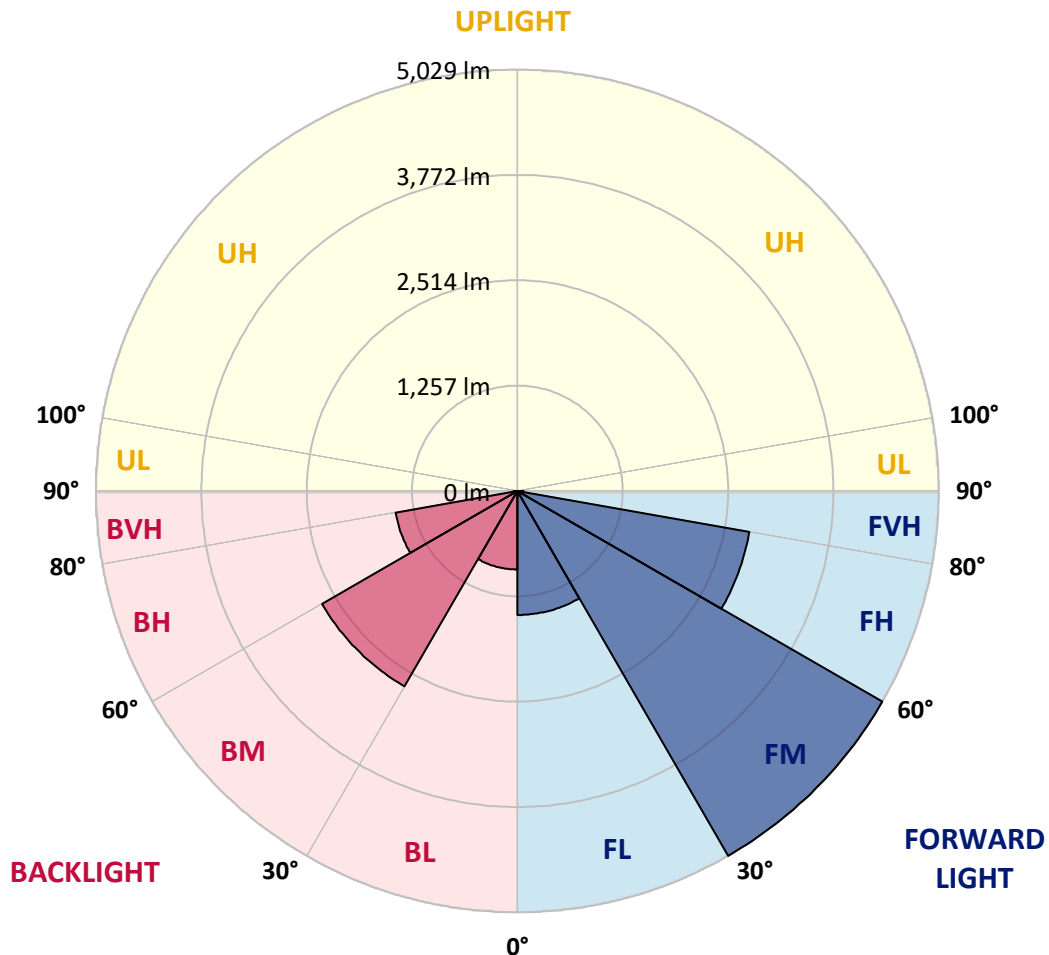
CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.4	6.0			
FM (30°-60°)	5028.9	20.3			
FH (60°-80°)	2810.8	11.4			G2/5000
FVH (80°-90°)	69.7	0.3			G1/100
BL (0°-30°)	937.6	3.8	B2/1000		
BM (30°-60°)	2691.7	10.9	B3/5000		
BH (60°-80°)	1476.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	45.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	10208.2	41.2			

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0
1°	2303.6	2302.7	2300.0	2294.2	2285.4	2276.1	2257.3	2248.6	2241.6	2234.9	2230.4
2°	2350.3	2347.7	2339.9	2326.1	2307.6	2287.5	2258.4	2240.4	2224.4	2211.7	2202.5
3°	2401.4	2397.6	2383.3	2360.8	2332.9	2302.3	2262.8	2234.8	2210.9	2192.1	2178.0
4°	2458.6	2451.8	2430.8	2400.0	2361.6	2320.1	2268.5	2232.0	2200.2	2175.3	2157.5
5°	2523.5	2513.4	2485.5	2443.0	2392.9	2339.1	2276.1	2230.2	2192.0	2161.7	2141.5
6°	2593.5	2580.5	2545.1	2491.6	2427.5	2360.2	2285.3	2230.3	2185.4	2151.8	2128.3
7°	2669.4	2653.0	2610.7	2545.2	2465.3	2384.6	2296.9	2233.1	2180.9	2144.0	2117.9
8°	2752.2	2732.3	2679.9	2601.7	2506.3	2410.8	2311.8	2238.3	2179.8	2137.9	2109.6
9°	2841.9	2817.2	2755.4	2662.3	2551.9	2439.5	2328.1	2244.6	2180.4	2134.0	2102.8
10°	2939.1	2910.0	2837.1	2727.9	2599.7	2470.2	2345.4	2252.8	2183.4	2133.0	2097.7
11°	3044.2	3010.1	2924.1	2797.7	2650.4	2504.5	2365.1	2262.9	2187.4	2133.7	2095.1
12°	3156.9	3116.9	3016.9	2871.3	2703.5	2539.7	2386.2	2274.1	2193.4	2135.6	2094.6
13°	3278.3	3231.7	3116.0	2951.5	2760.0	2577.8	2408.3	2286.4	2200.1	2138.8	2095.8
14°	3408.9	3357.3	3223.7	3034.6	2818.9	2616.7	2430.9	2298.9	2207.0	2143.1	2096.8
15°	3548.9	3487.5	3337.9	3124.3	2880.8	2655.4	2454.5	2313.0	2215.8	2148.2	2099.6
16°	3693.2	3626.7	3454.7	3217.2	2946.7	2697.4	2480.3	2327.5	2225.4	2153.3	2102.6
17°	3840.0	3764.4	3572.4	3313.0	3015.0	2740.7	2506.5	2343.4	2235.7	2159.6	2091.4
18°	3981.1	3897.4	3689.0	3409.1	3087.4	2785.8	2532.6	2356.3	2246.6	2167.2	2054.8
19°	4116.2	4026.5	3805.2	3504.2	3161.0	2831.0	2550.6	2365.7	2252.4	2175.1	2029.0
20°	4240.5	4148.9	3916.1	3597.9	3234.4	2874.1	2573.5	2377.5	2256.0	2181.0	2014.4
21°	4350.3	4258.6	4022.6	3689.6	3310.0	2913.8	2598.9	2397.6	2262.1	2153.0	2020.4
22°	4446.1	4360.8	4122.0	3777.8	3384.2	2959.3	2630.8	2417.1	2276.0	2130.1	2027.6
23°	4534.5	4451.2	4215.2	3861.5	3458.0	3006.5	2663.1	2434.5	2289.1	2116.5	2036.1
24°	4611.3	4532.2	4302.6	3942.6	3522.0	3059.1	2692.9	2448.8	2298.0	2107.4	2046.2
25°	4678.4	4604.6	4382.4	4019.8	3582.9	3115.0	2719.7	2466.1	2307.6	2117.0	2056.4
26°	4735.5	4667.2	4455.4	4093.8	3645.4	3169.7	2748.6	2485.2	2318.8	2122.0	2068.3
27°	4785.8	4722.5	4522.2	4165.8	3705.2	3222.6	2779.7	2508.3	2335.4	2128.2	2079.8
28°	4828.6	4769.4	4584.1	4233.0	3763.3	3268.7	2813.7	2532.4	2345.1	2137.1	2090.9
29°	4864.7	4809.5	4638.3	4295.6	3820.4	3316.0	2851.1	2556.1	2332.3	2152.6	2103.2
30°	4894.6	4842.7	4688.3	4357.2	3877.9	3364.0	2889.4	2580.6	2333.1	2168.0	2113.2
31°	4918.2	4870.4	4731.3	4413.0	3932.1	3411.4	2928.6	2604.7	2326.3	2184.3	2116.3
32°	4935.1	4890.6	4767.7	4459.5	3983.6	3460.1	2968.0	2622.9	2331.8	2199.9	2053.9
33°	4947.9	4905.8	4801.1	4503.3	4030.3	3509.7	3007.0	2632.7	2327.1	2212.6	2002.1
34°	4956.2	4915.7	4827.5	4542.1	4072.0	3558.5	3043.2	2644.3	2339.9	2223.4	1981.9
35°	4959.2	4920.6	4851.0	4578.4	4111.2	3606.6	3069.2	2663.4	2353.6	2233.2	1993.0
36°	4957.9	4922.9	4867.8	4613.2	4149.8	3652.0	3092.4	2683.6	2369.8	2244.5	2004.5
37°	4951.5	4919.5	4881.0	4644.5	4186.6	3696.2	3120.6	2704.7	2385.8	2241.9	2013.5
38°	4941.9	4913.8	4889.4	4671.7	4222.3	3739.6	3154.9	2727.9	2397.0	2180.5	2021.0
39°	4929.2	4904.1	4894.2	4695.7	4256.6	3780.3	3187.4	2748.0	2407.3	2132.0	2032.6
40°	4912.6	4892.3	4892.6	4716.2	4289.8	3812.7	3220.2	2766.2	2425.4	2119.2	2047.5
41°	4890.6	4875.9	4888.9	4735.4	4321.9	3839.6	3253.1	2783.2	2447.6	2135.1	2062.2
42°	4865.9	4856.6	4879.5	4752.2	4353.2	3864.2	3286.0	2796.0	2469.4	2152.3	2074.9
43°	4835.0	4833.8	4867.1	4765.1	4384.5	3892.9	3313.7	2809.5	2491.6	2170.3	2031.0
44°	4798.7	4806.5	4851.1	4772.4	4414.1	3922.9	3339.2	2834.4	2514.7	2187.0	1960.5



REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4757.9	4775.8	4829.8	4774.5	4441.1	3954.6	3361.2	2864.5	2532.5	2197.9	1931.2
46°	4710.4	4739.9	4805.7	4771.5	4468.1	3985.6	3377.8	2895.0	2538.2	2205.2	1941.9
47°	4657.0	4697.7	4778.8	4763.4	4493.8	4015.7	3392.5	2923.2	2538.6	2217.3	1950.9
48°	4601.1	4650.5	4746.4	4751.1	4515.6	4043.6	3406.1	2938.7	2497.7	2231.6	1958.2
49°	4538.3	4597.4	4708.3	4736.3	4532.5	4073.2	3428.4	2948.8	2463.8	2187.0	1968.3
50°	4468.2	4538.1	4665.1	4716.7	4543.2	4098.6	3455.1	2955.2	2451.8	2117.7	1979.3
51°	4392.2	4472.1	4613.5	4692.4	4549.3	4119.7	3481.7	2951.3	2442.8	2088.0	1941.0
52°	4308.2	4400.0	4557.3	4662.1	4551.9	4137.7	3506.9	2971.5	2460.0	2103.9	1835.9
53°	4221.2	4320.4	4495.5	4627.1	4549.0	4153.8	3531.0	2983.2	2470.5	2120.6	1802.5
54°	4129.0	4233.9	4426.8	4589.0	4544.7	4161.6	3552.7	2990.0	2482.1	2132.5	1817.9
55°	4032.6	4143.4	4351.9	4544.1	4533.9	4162.0	3567.4	3004.2	2501.2	2143.5	1835.2
56°	3934.0	4048.8	4275.4	4494.0	4521.3	4159.5	3574.3	3012.5	2522.1	2146.8	1852.1
57°	3834.5	3952.5	4193.0	4441.4	4503.9	4149.4	3573.2	3016.6	2532.9	2072.8	1866.2
58°	3732.2	3851.3	4108.0	4383.3	4480.4	4142.6	3566.6	3024.4	2541.3	2005.6	1771.5
59°	3627.3	3752.7	4020.9	4320.4	4450.5	4134.6	3563.3	3024.4	2499.3	2003.5	1697.7
60°	3516.3	3650.0	3930.8	4253.9	4411.2	4120.6	3556.6	3011.3	2446.9	2027.3	1702.3
61°	3402.3	3543.6	3838.7	4183.0	4364.4	4099.8	3542.6	2994.6	2431.7	2053.2	1708.2
62°	3283.1	3435.2	3749.3	4107.3	4310.0	4070.2	3525.3	2985.9	2438.8	2078.4	1639.3
63°	3167.1	3325.5	3661.4	4029.7	4250.2	4029.5	3495.5	2962.6	2445.2	2027.9	1542.2
64°	3055.9	3219.9	3577.1	3949.3	4179.9	3976.2	3455.1	2935.1	2443.9	1964.6	1522.4
65°	2967.4	3122.7	3493.8	3865.6	4103.2	3912.6	3405.7	2894.3	2417.4	1963.8	1503.8
66°	2901.2	3045.0	3414.0	3782.1	4017.8	3833.5	3346.6	2840.2	2332.9	1976.0	1374.0
67°	2864.0	2986.9	3342.6	3697.4	3921.2	3743.6	3278.7	2770.4	2298.0	1895.1	1352.9
68°	2822.5	2947.5	3279.1	3612.2	3810.0	3640.8	3163.3	2695.6	2311.4	1850.4	1267.5
69°	2729.5	2904.9	3226.7	3528.8	3690.3	3501.2	2974.8	2608.4	2317.8	1844.4	1182.1
70°	2549.9	2828.1	3184.4	3445.0	3569.5	3314.3	2711.2	2481.2	2312.6	1754.8	1096.2
71°	2273.4	2680.1	3144.7	3361.6	3424.6	3078.6	2419.6	2307.6	2237.8	1726.5	958.8
72°	1990.2	2441.1	3096.2	3273.4	3257.1	2809.8	2156.1	2103.1	2145.8	1660.8	859.1
73°	1688.1	2138.2	3018.9	3186.1	3064.1	2534.0	1915.5	1902.9	2043.4	1608.5	766.1
74°	1345.3	1813.1	2872.7	3081.3	2846.3	2268.8	1633.9	1725.6	1924.4	1516.3	647.4
75°	915.2	1460.3	2622.0	2934.2	2601.6	1965.4	1243.8	1531.9	1772.0	1423.7	577.8
76°	507.4	1036.1	2298.2	2719.2	2345.2	1554.7	853.8	1229.6	1635.5	1261.9	517.0
77°	392.1	592.1	1951.8	2411.3	2060.5	1026.3	464.1	925.1	1500.7	1100.2	455.6
78°	279.5	451.2	1532.9	1989.1	1707.3	571.0	223.5	533.8	1241.2	937.8	391.9
79°	166.9	311.3	1005.8	1495.0	1244.9	378.4	168.1	387.2	981.7	740.1	325.1
80°	147.7	171.4	547.9	983.8	767.3	193.2	113.0	240.6	721.2	563.6	274.8
81°	132.1	148.6	415.6	513.9	558.5	160.1	95.8	94.4	388.2	414.5	247.2
82°	117.9	131.4	287.6	340.8	353.3	136.7	81.2	75.2	285.2	330.9	244.0
83°	104.6	115.7	159.7	178.4	148.2	112.1	67.7	59.5	182.3	262.3	200.6
84°	92.1	101.0	133.2	146.0	120.1	87.3	55.3	47.3	82.2	201.7	154.3
85°	80.1	87.5	108.2	123.8	95.3	68.3	43.2	37.3	70.4	141.1	108.0
86°	68.6	75.2	88.3	103.1	73.4	55.0	32.2	28.6	55.5	81.0	61.9
87°	57.2	63.4	71.0	80.4	56.6	41.8	22.3	21.1	41.0	45.8	38.6
88°	49.4	53.3	55.2	55.6	41.1	28.6	15.7	14.9	28.5	31.4	26.5
89°	41.7	43.2	42.5	39.6	25.7	17.4	9.0	8.8	15.9	17.0	14.4



REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0
1°	2228.1	2228.3	2230.8	2235.7	2242.6	2249.6	2259.6	2261.2	2271.2	2281.2	2290.1
2°	2197.5	2197.2	2201.1	2210.1	2221.7	2237.1	2254.9	2266.1	2286.5	2306.0	2324.0
3°	2170.7	2169.7	2174.8	2186.2	2203.9	2225.6	2252.2	2273.4	2303.3	2334.3	2361.6
4°	2147.9	2146.8	2153.2	2167.3	2189.1	2217.9	2252.0	2282.4	2323.8	2365.6	2403.4
5°	2130.8	2129.0	2135.6	2152.2	2177.2	2211.7	2253.7	2294.0	2346.3	2399.9	2449.1
6°	2115.9	2113.2	2121.4	2140.6	2168.6	2207.4	2257.5	2307.7	2371.5	2437.5	2498.3
7°	2103.2	2100.2	2109.2	2130.6	2163.3	2206.7	2263.7	2324.1	2399.0	2478.9	2554.4
8°	2093.5	2090.0	2099.4	2123.6	2159.7	2208.1	2272.1	2341.5	2429.1	2524.4	2613.8
9°	2084.8	2081.4	2091.9	2118.6	2158.2	2211.1	2281.2	2360.2	2461.5	2572.5	2677.9
10°	2078.6	2074.2	2086.2	2115.9	2158.4	2215.3	2291.9	2381.7	2496.1	2623.6	2746.1
11°	2073.7	2069.2	2082.7	2114.8	2160.8	2222.3	2304.9	2405.9	2534.9	2678.0	2818.9
12°	2070.8	2066.3	2080.4	2115.6	2165.2	2230.4	2320.0	2430.3	2573.8	2736.1	2896.4
13°	2070.4	2065.1	2080.3	2117.4	2171.4	2240.3	2335.7	2456.6	2615.5	2797.4	2980.2
14°	2070.6	2064.4	2081.6	2121.3	2178.9	2251.2	2352.6	2483.8	2658.0	2861.5	3068.2
15°	2068.3	2039.1	2079.7	2125.9	2186.8	2263.7	2370.3	2513.4	2702.9	2930.7	3162.3
16°	2024.4	1997.5	2039.4	2130.6	2195.2	2277.4	2389.2	2542.5	2750.0	3000.8	3261.4
17°	1992.0	1973.0	2008.1	2122.6	2204.5	2291.5	2409.9	2573.5	2798.2	3076.2	3363.0
18°	1974.9	1968.6	1991.4	2086.9	2215.6	2306.2	2428.1	2604.5	2848.9	3154.7	3465.4
19°	1977.4	1971.6	1993.7	2063.8	2225.5	2317.0	2440.8	2630.6	2900.8	3234.2	3567.5
20°	1981.9	1975.8	1998.7	2051.9	2234.5	2324.4	2456.1	2656.5	2954.1	3315.3	3666.1
21°	1987.7	1982.6	2005.3	2057.2	2216.0	2333.8	2477.8	2686.1	3002.5	3398.2	3761.7
22°	1996.0	1990.1	2013.9	2066.2	2189.3	2350.9	2502.0	2720.4	3051.9	3478.4	3851.9
23°	2004.7	2000.0	2024.7	2076.3	2176.9	2368.8	2526.8	2757.8	3106.5	3558.3	3938.1
24°	2014.2	2009.6	2035.8	2087.9	2173.2	2383.8	2546.7	2795.2	3164.0	3634.3	4019.9
25°	2024.2	2018.7	2046.4	2100.3	2183.2	2395.3	2565.7	2829.2	3224.7	3701.5	4096.2
26°	2034.6	2029.6	2057.9	2114.6	2192.5	2407.3	2586.2	2861.2	3286.4	3763.0	4169.3
27°	2044.9	2040.8	2069.0	2127.8	2199.8	2422.1	2608.8	2895.5	3347.5	3824.1	4239.8
28°	2055.7	2029.5	2080.4	2141.4	2209.1	2434.6	2635.2	2932.6	3404.7	3882.9	4307.2
29°	2023.1	1957.4	2055.2	2154.8	2224.4	2430.8	2662.2	2971.8	3455.1	3939.8	4371.0
30°	1955.2	1918.6	1986.1	2165.9	2241.4	2427.7	2689.2	3013.1	3508.1	3996.9	4430.6
31°	1922.2	1923.4	1952.5	2170.4	2258.7	2427.5	2715.8	3055.7	3560.0	4050.7	4487.5
32°	1928.7	1938.5	1957.9	2120.2	2276.8	2428.2	2737.2	3098.2	3609.3	4102.1	4539.1
33°	1942.3	1954.3	1971.4	2069.0	2293.1	2427.8	2750.9	3140.0	3660.3	4151.7	4584.4
34°	1955.6	1970.6	1985.3	2046.5	2306.2	2440.8	2764.7	3181.5	3709.1	4194.9	4623.2
35°	1969.4	1988.6	1999.3	2055.3	2319.1	2455.2	2785.9	3214.8	3758.5	4233.0	4660.1
36°	1984.4	2005.1	2014.3	2069.3	2329.3	2471.3	2808.7	3242.3	3804.8	4270.6	4695.2
37°	1997.7	2020.6	2029.0	2079.7	2335.2	2489.3	2831.9	3273.4	3849.5	4306.6	4728.0
38°	2010.7	2033.0	2043.1	2088.5	2275.6	2503.3	2858.2	3308.5	3892.6	4343.1	4755.5
39°	2020.1	1958.6	2054.3	2098.1	2229.0	2515.6	2884.2	3343.2	3933.6	4377.4	4779.2
40°	1943.5	1887.4	1986.3	2113.2	2215.0	2533.3	2906.0	3377.5	3968.5	4409.6	4799.7
41°	1874.3	1872.3	1913.6	2129.4	2228.8	2556.9	2925.3	3412.3	3995.4	4441.7	4817.5
42°	1858.3	1882.9	1893.5	2144.1	2246.3	2581.6	2939.0	3446.5	4019.7	4473.7	4831.2
43°	1870.9	1894.7	1906.4	2115.3	2265.0	2606.0	2953.9	3478.6	4045.7	4503.9	4842.2
44°	1884.7	1905.7	1921.0	2039.8	2283.0	2631.1	2982.5	3507.8	4072.5	4531.4	4848.7



REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1898.9	1916.8	1935.2	2004.2	2295.9	2651.3	3014.5	3533.7	4101.2	4557.0	4848.7
46°	1913.3	1923.4	1949.8	2012.1	2304.5	2659.0	3046.6	3550.7	4131.3	4579.9	4842.9
47°	1927.1	1845.9	1961.7	2020.6	2315.6	2664.1	3078.1	3564.7	4159.3	4601.5	4831.2
48°	1853.5	1739.8	1900.0	2028.0	2330.6	2642.6	3102.5	3576.7	4185.5	4620.2	4817.2
49°	1749.9	1719.3	1794.3	2038.0	2302.4	2607.0	3109.4	3597.4	4209.0	4632.8	4799.1
50°	1731.7	1727.8	1769.0	2047.8	2230.4	2581.7	3114.3	3622.2	4230.1	4638.4	4776.9
51°	1746.0	1737.3	1783.2	2021.1	2189.9	2570.5	3110.1	3644.3	4245.2	4637.1	4751.1
52°	1761.1	1746.8	1796.6	1914.7	2202.3	2583.4	3111.0	3665.2	4256.6	4632.2	4719.0
53°	1774.5	1751.1	1809.3	1873.6	2219.6	2593.9	3123.5	3682.8	4263.0	4622.0	4683.5
54°	1781.2	1625.0	1816.8	1888.0	2230.9	2603.6	3126.7	3697.0	4260.2	4611.1	4641.9
55°	1667.0	1547.3	1703.1	1904.8	2241.5	2616.2	3128.9	3704.0	4250.8	4594.8	4597.6
56°	1582.4	1541.9	1617.4	1922.2	2245.0	2635.5	3129.2	3700.3	4234.7	4576.4	4549.0
57°	1576.8	1544.6	1608.4	1934.7	2190.2	2643.0	3125.1	3687.6	4213.6	4552.9	4494.5
58°	1579.2	1531.6	1610.3	1845.0	2111.8	2646.8	3123.4	3671.3	4191.3	4520.1	4436.2
59°	1549.6	1349.9	1585.9	1764.8	2103.8	2617.5	3118.8	3655.1	4168.6	4483.1	4373.1
60°	1389.7	1300.2	1424.5	1765.2	2126.7	2552.9	3097.1	3635.9	4140.3	4440.1	4303.9
61°	1358.8	1223.8	1389.5	1770.3	2151.3	2521.5	3071.0	3611.5	4105.8	4388.8	4230.1
62°	1354.7	1147.5	1380.9	1711.5	2173.0	2520.7	3056.0	3581.1	4063.8	4328.8	4153.4
63°	1275.8	1071.9	1299.9	1604.1	2128.4	2520.0	3029.2	3540.6	4012.2	4258.7	4073.0
64°	1197.0	1050.2	1218.9	1582.8	2052.4	2513.0	2993.9	3487.6	3949.8	4183.0	3991.7
65°	1118.0	959.5	1137.3	1569.5	2041.2	2484.1	2944.3	3422.0	3872.9	4100.0	3904.0
66°	994.5	802.4	1016.7	1430.2	2041.8	2400.1	2882.3	3343.8	3781.5	4010.1	3811.7
67°	868.9	765.1	886.8	1400.0	1957.6	2345.1	2808.2	3249.2	3681.8	3906.8	3719.8
68°	781.7	534.2	802.1	1345.1	1910.4	2347.3	2707.1	3086.0	3554.4	3792.4	3628.7
69°	636.9	441.1	654.4	1227.6	1892.4	2342.6	2585.3	2845.0	3378.0	3666.6	3540.8
70°	510.1	303.9	524.7	1110.0	1796.5	2323.9	2416.6	2529.5	3156.1	3527.8	3447.0
71°	350.7	166.7	350.4	992.8	1753.7	2229.6	2205.0	2237.8	2878.0	3363.6	3348.8
72°	193.8	30.5	181.2	892.4	1680.0	2108.0	1979.6	1970.4	2582.9	3177.3	3250.3
73°	163.2	0.4	147.0	787.4	1604.9	1982.6	1761.0	1704.0	2294.0	2952.4	3140.1
74°	132.6	0.3	113.0	647.6	1493.7	1844.7	1558.1	1387.2	2007.8	2696.9	3011.3
75°	102.1	0.3	98.1	568.2	1369.5	1683.0	1251.8	971.9	1666.5	2413.8	2831.7
76°	77.6	0.3	78.1	505.1	1194.1	1522.1	945.5	563.0	1206.1	2115.0	2590.7
77°	54.6	0.3	61.9	445.3	1018.6	1289.9	639.2	361.7	718.4	1797.1	2254.4
78°	40.9	0.4	50.1	385.9	843.3	1057.8	329.0	165.3	537.6	1407.9	1818.3
79°	40.3	0.4	49.8	320.8	674.6	823.9	214.8	126.1	359.4	952.0	1318.1
80°	53.9	0.5	60.0	277.8	523.9	471.1	102.0	107.0	181.3	556.3	820.2
81°	66.0	0.6	62.1	258.1	393.7	341.7	81.7	91.0	154.1	369.3	601.1
82°	58.2	0.6	38.7	240.6	305.4	212.3	67.3	76.5	131.6	185.0	387.4
83°	36.3	0.7	27.5	182.4	229.3	83.6	54.9	63.7	108.6	141.3	173.7
84°	26.6	0.8	16.3	124.2	153.1	69.6	44.1	52.1	86.0	116.4	144.5
85°	16.9	0.9	5.4	66.6	77.9	54.9	35.1	40.6	67.1	91.4	122.7
86°	7.5	1.0	4.9	33.9	43.3	40.8	27.0	29.1	53.9	70.9	102.2
87°	5.5	1.1	4.8	23.9	24.7	29.4	19.9	19.5	40.8	54.7	79.4
88°	4.0	1.2	4.2	13.9	17.2	20.5	14.0	11.4	27.7	39.7	55.2
89°	3.1	1.3	2.7	4.0	9.8	11.6	8.2	4.9	16.9	24.8	39.4



REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2263.0	2263.0	2263.0
1°	2296.6	2301.4	2303.6
2°	2337.6	2346.9	2350.3
3°	2382.7	2396.6	2401.4
4°	2433.3	2452.8	2458.6
5°	2488.3	2515.1	2523.5
6°	2549.0	2583.5	2593.5
7°	2615.8	2656.3	2669.4
8°	2687.9	2736.2	2752.2
9°	2765.8	2823.3	2841.9
10°	2847.3	2917.7	2939.1
11°	2938.4	3018.3	3044.2
12°	3035.0	3128.6	3156.9
13°	3139.1	3244.7	3278.3
14°	3250.3	3370.1	3408.9
15°	3367.0	3502.7	3548.9
16°	3485.6	3638.1	3693.2
17°	3606.3	3777.3	3840.0
18°	3727.6	3915.4	3981.1
19°	3844.9	4048.3	4116.2
20°	3958.3	4171.6	4240.5
21°	4064.6	4283.9	4350.3
22°	4163.7	4386.4	4446.1
23°	4258.8	4475.9	4534.5
24°	4347.1	4555.8	4611.3
25°	4428.7	4625.9	4678.4
26°	4503.2	4687.8	4735.5
27°	4573.4	4741.2	4785.8
28°	4633.9	4787.6	4828.6
29°	4689.3	4826.1	4864.7
30°	4737.3	4858.0	4894.6
31°	4780.7	4885.0	4918.2
32°	4818.1	4906.6	4935.1
33°	4850.1	4921.9	4947.9
34°	4875.5	4932.4	4956.2
35°	4896.3	4937.9	4959.2
36°	4912.6	4937.3	4957.9
37°	4924.9	4934.2	4951.5
38°	4932.3	4928.2	4941.9
39°	4934.9	4917.4	4929.2
40°	4933.3	4904.5	4912.6
41°	4928.3	4889.2	4890.6
42°	4918.9	4869.9	4865.9
43°	4905.0	4847.6	4835.0
44°	4888.1	4821.2	4798.7

REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4866.9	4790.7	4757.9
46°	4843.1	4755.9	4710.4
47°	4814.7	4714.4	4657.0
48°	4784.1	4668.8	4601.1
49°	4747.5	4617.5	4538.3
50°	4704.3	4561.1	4468.2
51°	4655.0	4497.8	4392.2
52°	4597.6	4426.0	4308.2
53°	4535.6	4350.6	4221.2
54°	4467.7	4266.7	4129.0
55°	4397.4	4180.1	4032.6
56°	4320.7	4085.6	3934.0
57°	4240.5	3989.4	3834.5
58°	4155.3	3890.0	3732.2
59°	4066.9	3789.4	3627.3
60°	3977.7	3685.4	3516.3
61°	3888.6	3579.8	3402.3
62°	3799.3	3470.6	3283.1
63°	3713.1	3365.2	3167.1
64°	3632.2	3263.2	3055.9
65°	3553.6	3169.2	2967.4
66°	3477.4	3090.1	2901.2
67°	3404.9	3032.8	2864.0
68°	3338.2	2993.0	2822.5
69°	3278.9	2950.2	2729.5
70°	3232.2	2880.3	2549.9
71°	3184.5	2743.8	2273.4
72°	3125.7	2508.4	1990.2
73°	3038.9	2203.2	1688.1
74°	2880.2	1866.4	1345.3
75°	2627.4	1510.9	915.2
76°	2305.3	1105.6	507.4
77°	1940.1	659.5	392.1
78°	1503.1	495.0	279.5
79°	988.0	335.4	166.9
80°	554.7	175.8	147.7
81°	417.6	153.2	132.1
82°	290.5	135.4	117.9
83°	163.3	119.2	104.6
84°	135.2	103.9	92.1
85°	109.6	89.9	80.1
86°	89.6	77.0	68.6
87°	71.8	64.8	57.2
88°	55.0	54.3	49.4
89°	42.5	43.8	41.7



REPORT NUMBER: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-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: P1436700

CATALOG NUMBER: XAS180-SFPM (3000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)