

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: P1436747

Luminaire Tested: XAS180-SFPM (5000K-108W-T3)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436747
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 (5000K-108W-T3)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 3
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

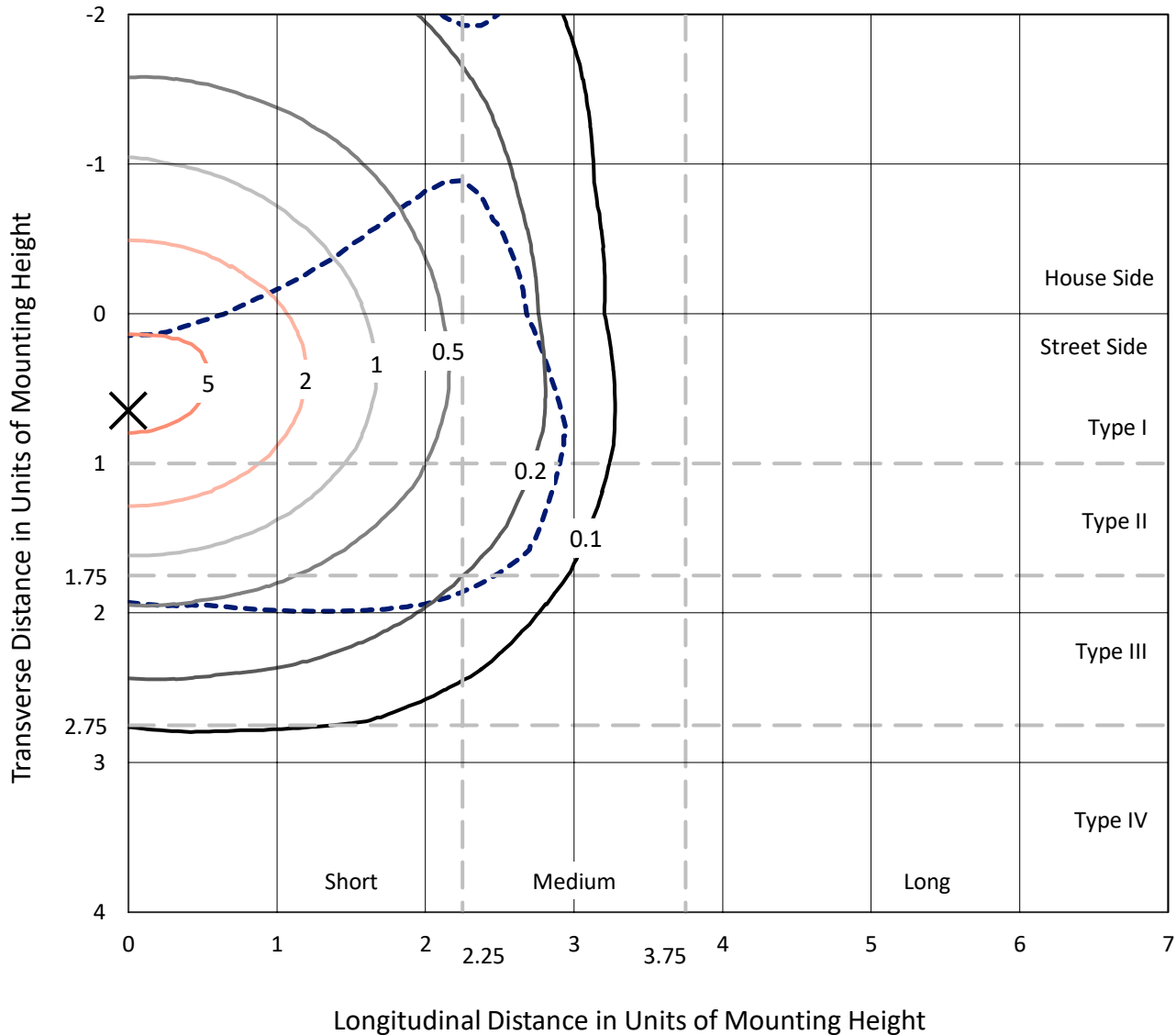
Lumens per Lamp: 27928 (1 lamp)
Luminaire Lumens: 17657.5 lumens
Efficiency: 63.2%
Efficacy: 160.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.35m x L: 0.35m x H: 0.35m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

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: P1436747
 CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

Iso-Footcandle Lines of Horizontal Illumination

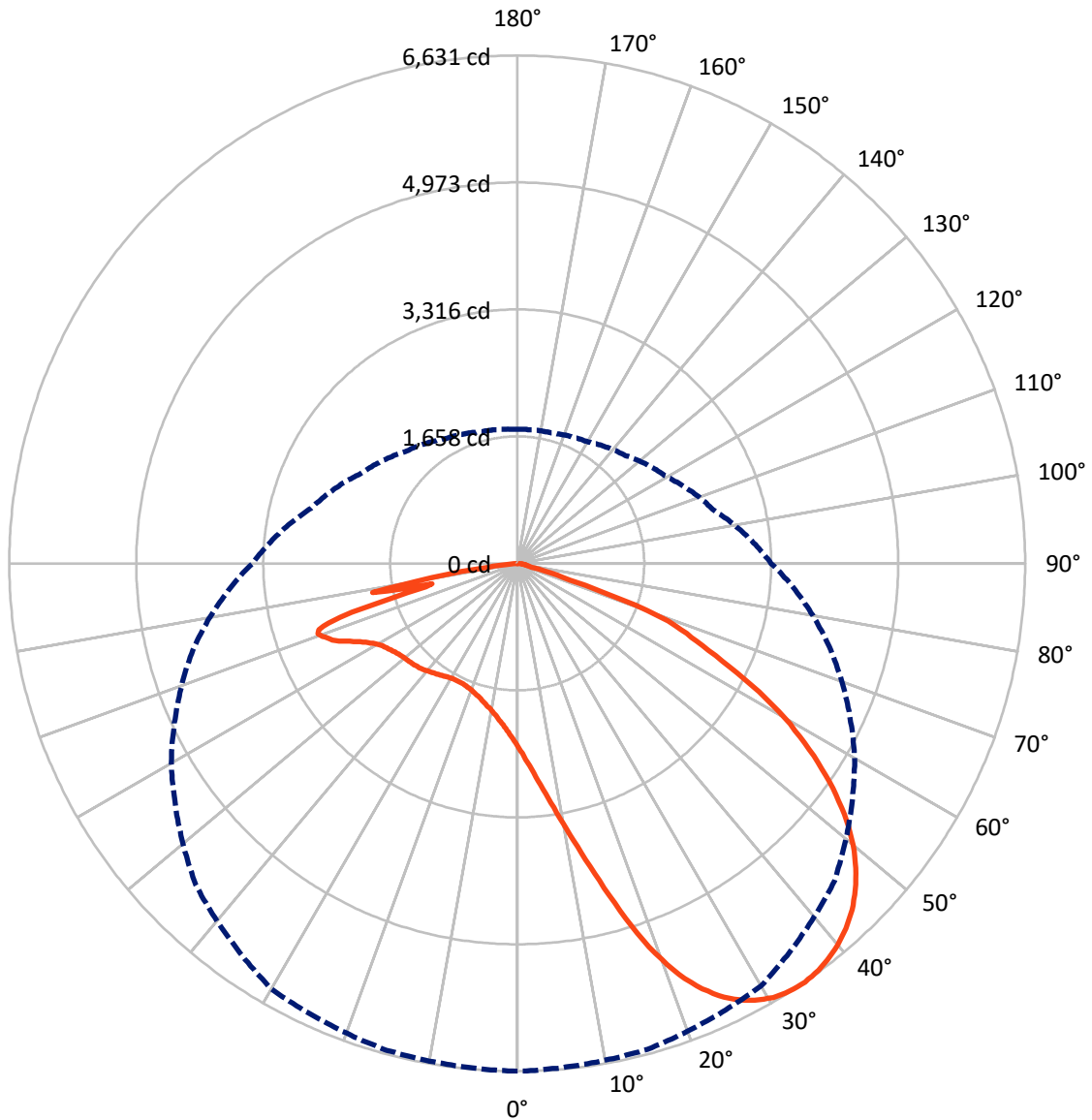
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P1436747
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 33-Deg Vertical

REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

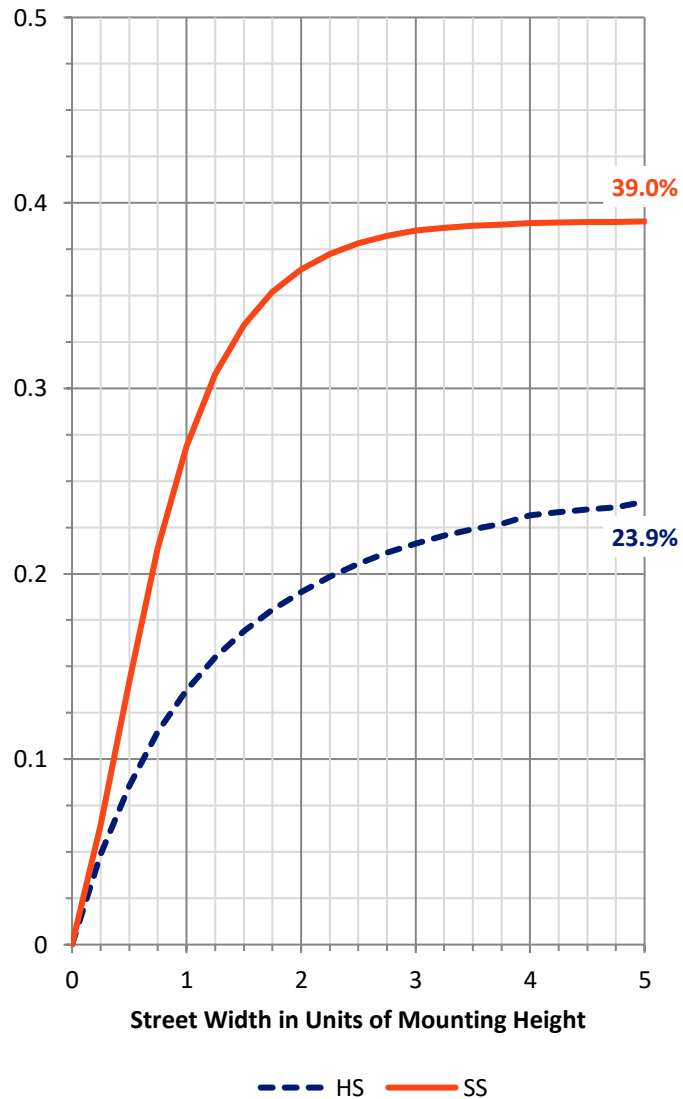
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6756.6	0.0	6756.6
	% Lamp	24.2	0.0	24.2
Street Side	Lumens	10900.8	0.0	10900.8
	% Lamp	39.0	0.0	39.0
Total	Lumens	17657.5	0.0	17657.5
	% Lamp	63.2	0.0	63.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	240.8	1.4	0.9
10°-20°	839.4	4.8	3.0
20°-30°	1649.1	9.3	5.9
30°-40°	2468.7	14.0	8.8
40°-50°	3143.2	17.8	11.3
50°-60°	3514.2	19.9	12.6
60°-70°	3395.3	19.2	12.2
70°-80°	2117.4	12.0	7.6
80°-90°	289.5	1.6	1.0
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°	17657.5	100.0	63.2
0°-180°	17657.5	100.0	63.2

Coefficient of Utilization



REPORT NUMBER: P1436747

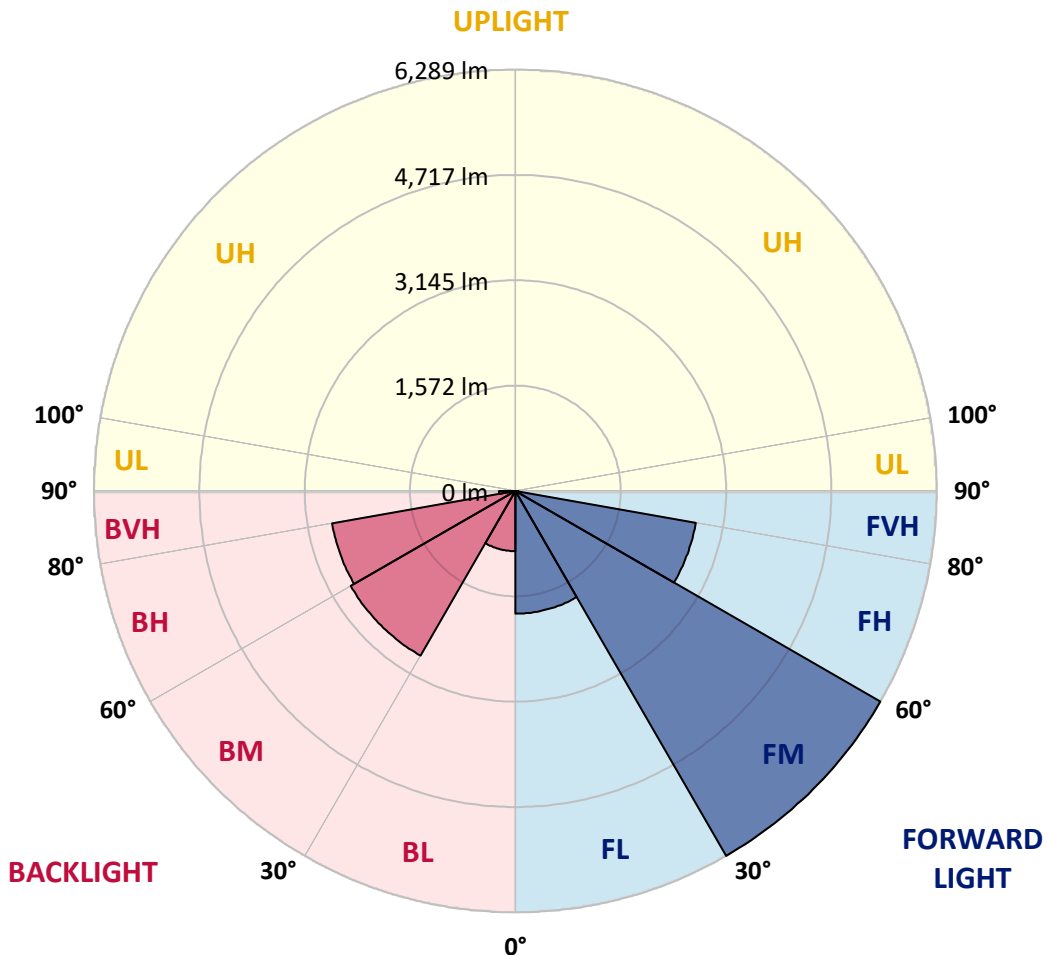
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.0	6.6			
FM (30°-60°)	6289.4	22.5			
FH (60°-80°)	2734.6	9.8			G2/5000
FVH (80°-90°)	45.9	0.2			G1/100
BL (0°-30°)	898.3	3.2	B2/1000		
BM (30°-60°)	2836.7	10.2	B3/5000		
BH (60°-80°)	2778.1	9.9	B4/5000		G4/5000
BVH (80°-90°)	243.6	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	10270.5	36.8			

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9
1°	2481.7	2479.8	2474.8	2464.4	2450.9	2434.6	2403.9	2386.2	2370.7	2358.1	2350.7
2°	2561.6	2557.2	2544.4	2519.5	2489.6	2454.0	2405.0	2370.4	2340.3	2315.3	2298.4
3°	2649.3	2642.0	2617.4	2579.3	2531.3	2476.9	2409.5	2357.8	2312.9	2277.1	2250.3
4°	2746.5	2735.0	2697.8	2643.9	2577.2	2502.4	2414.7	2346.9	2288.1	2241.2	2207.6
5°	2851.6	2836.6	2786.9	2714.1	2625.2	2529.3	2422.0	2337.8	2265.7	2209.7	2169.2
6°	2967.2	2944.9	2882.9	2791.1	2679.1	2559.8	2431.1	2330.8	2245.9	2180.6	2132.7
7°	3089.9	3063.5	2988.2	2873.6	2736.3	2593.5	2444.5	2327.7	2228.9	2153.9	2099.2
8°	3224.4	3190.1	3099.6	2961.5	2798.4	2630.3	2459.4	2326.4	2214.9	2129.3	2069.2
9°	3370.4	3328.8	3219.8	3056.1	2865.6	2669.6	2476.4	2326.6	2202.7	2107.4	2040.7
10°	3526.5	3476.1	3348.2	3157.2	2936.6	2712.5	2496.5	2328.9	2192.7	2088.5	2014.6
11°	3693.1	3636.4	3485.1	3265.9	3010.7	2757.5	2518.9	2333.5	2183.9	2071.1	1992.3
12°	3873.8	3806.3	3630.9	3379.0	3088.6	2805.9	2542.4	2339.5	2177.1	2055.9	1972.0
13°	4068.0	3990.0	3789.5	3499.5	3172.8	2856.5	2566.5	2346.7	2172.0	2042.3	1953.7
14°	4277.5	4189.7	3960.3	3628.9	3259.4	2909.1	2592.3	2353.9	2167.1	2030.4	1936.2
15°	4500.7	4397.7	4139.2	3764.1	3351.3	2963.5	2619.1	2362.2	2163.8	2020.2	1919.8
16°	4732.5	4618.1	4322.6	3909.7	3449.2	3020.6	2648.7	2372.2	2161.2	2010.3	1904.9
17°	4962.7	4834.5	4506.6	4058.3	3549.2	3080.1	2679.3	2383.2	2160.6	2001.2	1890.9
18°	5189.4	5048.3	4689.7	4207.6	3654.9	3141.2	2711.4	2395.4	2160.0	1993.3	1878.1
19°	5401.3	5251.9	4871.0	4352.2	3765.9	3204.7	2744.4	2409.1	2160.0	1986.4	1867.4
20°	5595.4	5444.2	5044.7	4496.4	3878.1	3270.9	2779.1	2423.8	2160.4	1980.2	1858.5
21°	5769.0	5619.0	5212.3	4639.1	3989.2	3339.2	2814.5	2439.7	2161.9	1974.5	1850.6
22°	5921.6	5775.6	5366.0	4774.0	4098.4	3411.2	2851.1	2454.9	2165.4	1970.1	1843.7
23°	6056.5	5915.7	5510.5	4904.2	4207.8	3483.9	2889.0	2471.2	2168.9	1966.9	1838.0
24°	6172.8	6040.2	5644.8	5027.2	4314.3	3559.2	2928.5	2489.0	2173.4	1964.8	1832.5
25°	6273.4	6150.2	5767.7	5142.8	4416.8	3635.4	2967.4	2506.8	2178.6	1964.2	1828.4
26°	6358.6	6243.7	5878.8	5252.4	4517.0	3712.2	3007.4	2525.1	2185.1	1965.1	1825.0
27°	6430.7	6323.8	5979.5	5358.1	4611.4	3789.4	3049.4	2542.9	2192.7	1966.1	1822.5
28°	6490.1	6393.4	6069.0	5457.1	4701.5	3865.0	3092.0	2561.0	2200.8	1968.3	1821.2
29°	6539.4	6447.8	6148.1	5549.3	4786.4	3938.8	3136.0	2579.3	2210.1	1971.6	1821.3
30°	6577.4	6492.7	6217.4	5636.6	4869.3	4011.2	3179.8	2598.9	2220.3	1975.7	1822.0
31°	6603.9	6528.1	6276.0	5716.8	4944.8	4082.1	3224.5	2618.5	2231.4	1981.1	1824.2
32°	6622.3	6552.1	6324.5	5789.6	5017.1	4151.5	3269.9	2639.2	2243.4	1987.1	1827.9
33°	6631.1	6567.3	6367.5	5858.1	5085.3	4219.6	3315.1	2660.9	2256.0	1993.6	1832.8
34°	6631.1	6573.6	6400.3	5919.3	5148.8	4283.8	3360.1	2681.8	2269.8	2001.2	1838.8
35°	6624.2	6572.3	6424.4	5974.1	5208.8	4344.9	3405.7	2704.4	2283.8	2010.3	1846.3
36°	6609.0	6564.1	6439.5	6022.8	5265.5	4404.6	3450.4	2727.5	2298.6	2020.2	1855.0
37°	6586.9	6549.6	6445.9	6064.6	5319.1	4462.0	3495.6	2750.8	2313.7	2031.6	1864.7
38°	6557.8	6528.7	6446.5	6098.8	5368.1	4516.3	3539.7	2775.1	2329.9	2043.8	1875.3
39°	6524.3	6502.8	6438.9	6128.2	5415.0	4568.9	3585.3	2799.8	2346.4	2057.3	1886.3
40°	6485.1	6470.5	6424.4	6151.2	5458.0	4619.0	3629.8	2826.3	2363.8	2071.9	1897.8
41°	6438.9	6431.3	6402.9	6168.0	5497.9	4666.4	3672.2	2853.9	2381.5	2086.8	1909.5
42°	6384.5	6389.0	6374.4	6179.6	5534.5	4712.0	3713.4	2881.1	2400.3	2103.0	1922.5
43°	6323.8	6337.8	6339.7	6183.5	5568.8	4756.0	3753.1	2909.1	2420.5	2120.3	1935.4
44°	6255.7	6279.1	6299.2	6180.5	5598.5	4797.9	3790.9	2938.5	2441.2	2137.9	1948.7



REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	6177.5	6215.6	6250.4	6170.7	5625.2	4837.7	3827.1	2968.1	2463.3	2156.1	1962.0
46°	6089.6	6142.2	6196.2	6155.2	5650.6	4878.2	3863.8	2999.6	2487.1	2174.0	1975.7
47°	5996.8	6060.0	6136.4	6132.6	5671.3	4914.4	3898.9	3030.5	2511.5	2192.4	1990.2
48°	5895.7	5969.5	6068.8	6100.7	5688.0	4947.7	3931.6	3063.8	2536.5	2212.1	2006.0
49°	5785.2	5867.0	5992.9	6064.0	5701.3	4977.6	3961.4	3097.4	2563.6	2233.1	2022.3
50°	5661.4	5754.5	5906.7	6018.0	5708.8	5004.8	3990.5	3131.8	2591.4	2254.8	2040.4
51°	5525.9	5629.9	5812.6	5962.8	5711.2	5027.8	4019.1	3167.8	2620.6	2278.6	2059.6
52°	5380.0	5496.6	5707.6	5896.9	5707.3	5046.9	4044.9	3205.0	2651.2	2303.1	2079.2
53°	5224.6	5350.2	5595.5	5824.0	5696.9	5061.7	4068.3	3240.8	2683.3	2329.2	2100.1
54°	5060.8	5190.0	5470.0	5741.0	5677.2	5073.2	4088.2	3275.3	2718.2	2357.3	2122.2
55°	4887.8	5025.2	5335.1	5649.0	5648.2	5079.9	4106.0	3307.5	2754.4	2387.4	2146.8
56°	4707.3	4847.2	5187.6	5545.5	5610.0	5079.2	4119.7	3337.2	2791.4	2420.5	2172.6
57°	4522.0	4670.4	5034.2	5434.3	5560.8	5070.1	4131.2	3365.3	2829.7	2455.0	2201.4
58°	4329.5	4480.6	4871.2	5310.9	5498.4	5053.7	4137.7	3390.7	2869.0	2494.9	2233.6
59°	4132.4	4289.6	4705.0	5176.7	5425.3	5027.5	4137.4	3414.1	2909.5	2537.6	2269.6
60°	3919.9	4090.6	4530.4	5035.4	5340.8	4990.9	4131.0	3436.0	2951.1	2582.1	2308.9
61°	3694.2	3884.2	4350.4	4882.6	5241.8	4944.4	4117.4	3453.1	2991.7	2630.1	2352.0
62°	3454.0	3667.0	4167.1	4722.2	5136.0	4885.0	4095.5	3464.2	3033.1	2681.3	2397.5
63°	3209.0	3438.7	3980.3	4553.8	5019.6	4812.1	4062.4	3469.3	3073.7	2738.1	2447.2
64°	2966.8	3211.6	3790.6	4380.3	4891.7	4725.9	4016.9	3467.2	3113.4	2797.3	2504.3
65°	2744.9	2986.0	3595.1	4203.8	4753.6	4625.0	3962.0	3457.9	3151.3	2860.1	2569.1
66°	2553.1	2779.0	3399.5	4027.3	4601.1	4511.1	3891.8	3436.1	3185.9	2929.8	2639.0
67°	2392.8	2595.2	3206.9	3852.1	4441.4	4379.5	3801.6	3403.8	3215.4	3000.9	2721.5
68°	2227.9	2430.6	3021.2	3675.3	4263.8	4232.6	3661.7	3352.0	3239.8	3074.2	2816.4
69°	1987.0	2263.4	2847.0	3498.7	4077.5	4060.0	3455.5	3245.9	3251.9	3153.1	2923.4
70°	1630.9	2047.9	2682.5	3321.4	3877.6	3842.4	3181.8	3077.5	3255.1	3235.6	3036.4
71°	1155.5	1738.1	2521.8	3145.7	3652.6	3579.1	2847.6	2858.1	3234.1	3321.3	3121.0
72°	720.3	1317.9	2343.0	2968.9	3397.4	3267.2	2535.0	2623.2	3178.6	3402.7	3204.1
73°	542.7	867.0	2133.1	2782.6	3112.3	2926.0	2262.6	2424.3	3083.6	3475.5	3313.7
74°	367.1	643.3	1848.9	2569.0	2798.9	2572.2	1931.9	2255.1	2968.6	3516.6	3415.6
75°	191.4	427.1	1445.3	2297.1	2464.7	2190.3	1462.5	2018.9	2849.8	3533.8	3494.9
76°	163.3	210.8	1006.0	1958.4	2118.5	1719.0	993.1	1558.0	2758.9	3487.3	3516.6
77°	141.5	173.9	644.8	1539.9	1757.0	1165.7	524.2	1097.2	2662.2	3370.7	3455.7
78°	123.8	148.4	495.0	1036.5	1363.1	669.9	277.0	637.4	2466.0	3129.4	3156.8
79°	108.9	128.4	349.4	558.9	954.6	507.9	186.0	324.9	2038.2	2790.8	2717.1
80°	95.1	111.3	203.8	373.4	585.4	354.3	161.1	197.9	1394.1	2385.8	2260.6
81°	82.6	96.1	163.2	190.3	376.2	200.7	136.3	164.1	754.0	1836.5	2079.0
82°	71.0	82.4	137.3	157.1	172.9	170.4	111.6	130.3	359.6	1465.7	2003.4
83°	60.7	69.5	115.3	134.2	127.6	139.5	93.7	96.6	234.1	1094.9	1560.8
84°	50.3	58.4	93.5	114.2	101.9	105.7	76.9	77.0	191.2	725.6	1118.1
85°	39.8	47.4	70.4	95.1	78.7	79.6	60.7	60.2	158.6	456.4	676.3
86°	30.2	36.4	54.7	77.0	58.3	59.4	45.1	46.1	126.1	324.1	392.6
87°	20.9	26.7	38.9	57.4	42.5	43.5	31.1	33.6	93.6	191.8	314.4
88°	12.5	17.5	23.2	34.9	26.7	27.7	21.6	23.7	60.4	62.9	236.1
89°	5.8	8.2	10.4	12.2	12.7	13.5	12.1	13.8	40.9	42.4	157.9



REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9
1°	2345.3	2344.8	2349.4	2358.0	2370.2	2385.7	2402.4	2407.9	2425.5	2441.7	2457.2
2°	2288.8	2286.4	2293.5	2308.5	2330.6	2358.4	2391.1	2413.6	2449.2	2484.2	2515.2
3°	2236.1	2232.4	2241.5	2262.2	2294.3	2334.8	2382.0	2421.7	2475.3	2529.3	2577.8
4°	2188.4	2184.1	2195.4	2220.6	2260.8	2313.4	2375.7	2431.9	2505.3	2578.4	2645.9
5°	2145.7	2140.0	2152.0	2183.1	2231.0	2294.8	2370.7	2444.6	2536.6	2630.8	2719.2
6°	2105.4	2097.7	2111.9	2148.3	2204.4	2278.2	2368.4	2459.2	2572.0	2688.7	2798.1
7°	2067.9	2059.0	2075.2	2115.4	2179.3	2264.3	2368.5	2476.4	2609.9	2750.8	2883.8
8°	2033.9	2024.2	2040.8	2086.2	2157.5	2252.7	2370.3	2495.6	2650.0	2816.4	2976.4
9°	2001.8	1990.9	2009.8	2058.9	2137.0	2242.5	2373.2	2515.6	2693.7	2887.8	3075.2
10°	1973.1	1960.9	1981.6	2033.8	2118.6	2233.1	2378.2	2539.4	2741.0	2962.9	3178.4
11°	1947.3	1933.8	1956.1	2012.3	2103.0	2226.2	2385.2	2565.6	2791.3	3042.9	3291.1
12°	1923.4	1909.2	1932.3	1993.1	2088.9	2221.0	2394.1	2592.7	2842.8	3126.4	3408.4
13°	1901.8	1885.5	1910.2	1975.4	2077.7	2217.4	2405.0	2621.7	2897.8	3216.2	3537.6
14°	1880.6	1863.5	1889.7	1958.8	2067.7	2215.7	2416.5	2652.4	2955.7	3308.6	3672.5
15°	1861.4	1843.8	1870.9	1942.9	2059.8	2215.7	2428.3	2684.2	3015.6	3407.9	3816.4
16°	1843.6	1824.4	1853.2	1928.3	2051.6	2216.4	2441.3	2718.1	3077.9	3513.7	3967.4
17°	1827.5	1807.7	1837.3	1915.4	2044.3	2217.9	2456.0	2752.7	3143.2	3623.7	4122.5
18°	1812.9	1791.4	1822.5	1903.2	2038.4	2220.9	2471.5	2788.5	3211.0	3738.0	4280.0
19°	1799.6	1777.0	1808.8	1893.4	2032.4	2224.7	2488.6	2825.8	3281.4	3855.3	4435.1
20°	1787.4	1764.1	1796.6	1884.8	2027.3	2228.4	2506.6	2863.9	3354.1	3975.3	4587.7
21°	1777.5	1752.7	1786.6	1877.6	2023.1	2233.1	2525.4	2904.6	3429.2	4096.5	4733.1
22°	1768.4	1742.9	1777.7	1871.8	2021.0	2238.6	2545.0	2945.3	3507.8	4216.3	4869.4
23°	1760.5	1735.0	1770.4	1866.8	2019.6	2245.0	2564.9	2988.2	3590.5	4332.2	5000.2
24°	1753.9	1728.9	1764.6	1862.8	2019.6	2252.0	2584.9	3031.9	3674.6	4443.7	5121.8
25°	1749.4	1724.2	1760.8	1859.7	2020.6	2259.9	2605.2	3076.3	3758.0	4551.7	5236.9
26°	1746.0	1721.1	1758.5	1858.2	2022.4	2268.5	2627.2	3121.3	3842.2	4652.8	5345.4
27°	1743.7	1719.5	1756.9	1857.1	2025.5	2277.4	2648.2	3167.2	3926.8	4748.9	5448.3
28°	1742.9	1720.1	1757.1	1857.6	2029.6	2287.4	2670.5	3214.5	4010.3	4838.0	5544.3
29°	1743.8	1722.8	1759.2	1858.9	2034.9	2298.1	2692.4	3263.0	4091.6	4924.0	5635.6
30°	1746.1	1727.1	1763.3	1861.6	2040.5	2310.1	2715.5	3311.5	4169.9	5004.4	5718.8
31°	1750.0	1732.9	1768.0	1865.7	2047.1	2323.0	2737.8	3359.8	4245.8	5078.4	5797.1
32°	1754.6	1740.4	1773.6	1871.5	2055.5	2336.9	2760.8	3408.2	4317.2	5148.7	5868.0
33°	1760.5	1749.0	1779.8	1878.2	2064.4	2350.9	2783.6	3457.0	4386.0	5215.0	5934.8
34°	1767.0	1757.9	1786.4	1885.6	2073.9	2365.5	2807.6	3505.8	4451.3	5277.4	5994.4
35°	1773.9	1768.3	1793.5	1894.1	2084.7	2381.1	2832.0	3555.3	4513.4	5335.9	6048.3
36°	1780.8	1779.4	1801.0	1903.5	2095.4	2397.1	2858.1	3604.1	4573.4	5390.1	6095.7
37°	1788.0	1790.6	1808.9	1914.2	2107.2	2413.3	2884.1	3652.2	4628.6	5440.7	6136.4
38°	1794.9	1802.2	1817.7	1925.4	2120.2	2430.1	2911.5	3699.7	4682.2	5488.8	6172.5
39°	1802.3	1813.8	1826.4	1937.7	2134.1	2448.2	2939.2	3745.9	4731.4	5533.6	6200.7
40°	1810.2	1825.2	1835.6	1951.0	2148.9	2467.0	2968.0	3791.8	4778.6	5574.4	6222.9
41°	1818.1	1836.5	1844.7	1964.6	2164.1	2486.6	2996.8	3834.1	4823.9	5611.7	6236.9
42°	1825.8	1847.9	1854.5	1978.5	2180.6	2507.5	3026.1	3876.2	4867.8	5646.0	6243.4
43°	1834.4	1858.8	1864.8	1993.3	2197.5	2529.5	3057.2	3917.4	4909.7	5675.6	6245.1
44°	1844.0	1869.7	1876.4	2008.0	2215.5	2552.3	3088.6	3959.5	4948.6	5702.0	6240.1



REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1854.2	1879.2	1888.2	2023.1	2234.2	2575.7	3120.4	3998.8	4985.0	5725.2	6226.2
46°	1865.2	1887.1	1900.6	2039.0	2254.0	2599.3	3153.1	4034.0	5017.2	5744.1	6205.1
47°	1877.0	1894.2	1913.8	2054.6	2274.1	2625.1	3186.0	4066.3	5046.8	5758.5	6176.3
48°	1890.1	1901.8	1927.8	2070.8	2296.1	2652.1	3218.4	4097.1	5071.7	5767.4	6140.7
49°	1904.8	1909.5	1942.7	2087.1	2317.7	2680.5	3251.8	4125.2	5092.3	5770.7	6097.1
50°	1921.2	1916.6	1959.2	2105.1	2340.9	2711.7	3286.0	4150.8	5108.6	5768.3	6046.6
51°	1940.1	1924.8	1977.1	2123.7	2365.1	2743.8	3320.0	4172.5	5120.7	5760.6	5986.5
52°	1960.3	1935.7	1996.3	2144.0	2391.3	2776.2	3354.3	4192.2	5128.0	5745.4	5916.4
53°	1980.5	1949.3	2016.7	2165.3	2419.7	2809.9	3384.8	4207.0	5130.5	5723.5	5838.6
54°	2002.1	1963.2	2039.7	2189.1	2450.9	2844.1	3414.4	4218.4	5127.2	5694.8	5752.7
55°	2027.0	1979.6	2064.6	2214.9	2484.5	2878.9	3440.8	4226.6	5116.9	5657.1	5657.3
56°	2053.5	1999.1	2090.5	2242.7	2520.6	2915.6	3464.7	4229.3	5096.9	5610.2	5551.5
57°	2081.1	2020.8	2118.6	2274.5	2559.1	2952.8	3486.0	4227.5	5068.6	5552.9	5436.7
58°	2109.0	2039.4	2147.7	2309.1	2599.6	2989.6	3504.2	4221.2	5032.5	5482.9	5309.4
59°	2136.1	2059.9	2175.4	2347.3	2644.7	3023.2	3517.8	4208.8	4989.2	5405.6	5174.8
60°	2166.6	2090.8	2206.6	2389.4	2690.7	3056.8	3529.4	4188.4	4935.8	5314.8	5029.7
61°	2206.5	2133.0	2247.6	2436.0	2740.5	3091.0	3536.5	4159.4	4872.1	5213.1	4874.4
62°	2253.0	2177.1	2296.0	2486.3	2791.6	3124.7	3537.7	4121.6	4797.3	5102.3	4712.1
63°	2305.4	2228.7	2349.1	2538.0	2846.6	3157.5	3531.8	4073.4	4711.0	4977.3	4545.3
64°	2365.7	2293.6	2412.6	2596.1	2903.3	3187.9	3520.9	4011.6	4613.8	4840.7	4371.4
65°	2436.1	2366.3	2484.5	2663.3	2964.5	3216.2	3500.1	3937.3	4501.0	4696.3	4194.5
66°	2517.6	2449.6	2565.2	2736.5	3026.9	3239.3	3467.0	3845.5	4372.8	4540.9	4016.7
67°	2606.2	2539.3	2651.2	2816.6	3088.5	3260.0	3418.8	3721.8	4231.8	4372.1	3839.0
68°	2700.8	2611.7	2741.2	2908.6	3153.6	3273.8	3331.1	3534.8	4063.7	4192.8	3658.8
69°	2759.0	2659.0	2794.1	3012.0	3226.2	3276.7	3181.4	3275.7	3859.3	3995.2	3480.8
70°	2808.7	2718.2	2841.2	3117.9	3298.5	3267.8	2963.6	2949.0	3604.2	3773.1	3298.9
71°	2879.1	2760.4	2906.7	3197.5	3373.0	3230.6	2708.3	2612.3	3290.5	3517.1	3108.4
72°	2924.2	2731.4	2947.6	3281.5	3441.3	3152.5	2475.0	2300.2	2939.1	3233.2	2915.3
73°	2910.5	2581.8	2935.1	3387.6	3495.4	3031.2	2269.9	1995.3	2572.7	2917.9	2701.8
74°	2818.2	2251.1	2846.5	3481.9	3511.2	2904.1	2045.2	1613.6	2209.8	2570.8	2457.4
75°	2550.3	1723.0	2592.3	3542.9	3484.9	2779.3	1605.9	1113.2	1802.9	2204.6	2161.8
76°	2082.1	1233.9	2133.5	3551.0	3373.2	2650.4	1166.6	632.4	1308.6	1843.6	1805.5
77°	1597.5	1144.1	1692.9	3475.3	3208.4	2474.7	729.3	471.4	794.9	1485.7	1373.1
78°	1533.9	1537.3	1676.5	3154.7	2949.8	2117.1	368.4	318.7	598.1	1105.3	893.0
79°	1924.6	1926.0	2058.3	2670.5	2651.2	1544.8	212.1	166.1	409.5	723.5	653.9
80°	2245.0	1526.1	2289.3	2166.0	2236.5	972.5	176.1	140.9	220.8	533.1	417.7
81°	1729.1	1126.3	1735.1	2004.3	1763.0	411.7	140.1	120.6	183.9	344.4	181.4
82°	1213.2	727.5	1180.9	2005.3	1289.4	249.1	104.6	101.9	156.7	155.6	152.7
83°	699.3	374.1	635.1	1508.3	817.8	192.4	85.5	84.8	127.0	119.0	131.2
84°	389.1	262.9	374.9	1011.2	480.4	158.8	68.9	68.4	97.6	94.5	111.2
85°	280.0	151.8	245.3	525.6	343.9	125.3	53.8	54.1	72.9	71.4	92.0
86°	170.8	43.4	159.2	420.4	207.4	92.0	40.7	39.8	56.3	55.0	73.6
87°	62.4	29.3	73.8	315.3	74.6	64.3	29.2	25.6	39.7	38.7	52.2
88°	42.3	15.1	39.9	210.1	50.4	43.7	20.3	14.3	23.2	22.4	30.8
89°	22.1	1.1	6.0	104.9	26.2	23.1	11.3	5.3	9.7	9.3	9.3



REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2409.9	2409.9	2409.9
1°	2469.1	2477.4	2481.7
2°	2540.7	2556.0	2561.6
3°	2615.8	2641.6	2649.3
4°	2699.5	2735.3	2746.5
5°	2790.0	2836.1	2851.6
6°	2888.5	2947.3	2967.2
7°	2995.4	3066.9	3089.9
8°	3107.3	3194.6	3224.4
9°	3232.2	3334.8	3370.4
10°	3361.8	3485.2	3526.5
11°	3503.4	3648.0	3693.1
12°	3656.3	3819.7	3873.8
13°	3818.3	4007.8	4068.0
14°	3993.1	4208.9	4277.5
15°	4173.4	4416.3	4500.7
16°	4360.7	4631.6	4732.5
17°	4551.2	4851.9	4962.7
18°	4742.4	5071.2	5189.4
19°	4924.3	5278.2	5401.3
20°	5103.3	5470.5	5595.4
21°	5265.4	5649.4	5769.0
22°	5419.1	5806.8	5921.6
23°	5567.2	5947.2	6056.5
24°	5701.8	6069.0	6172.8
25°	5825.6	6176.5	6273.4
26°	5939.2	6268.1	6358.6
27°	6038.8	6345.3	6430.7
28°	6127.7	6410.5	6490.1
29°	6207.0	6465.5	6539.4
30°	6274.1	6507.8	6577.4
31°	6332.1	6540.7	6603.9
32°	6378.9	6565.4	6622.3
33°	6416.8	6580.5	6631.1
34°	6447.1	6586.9	6631.1
35°	6469.3	6584.3	6624.2
36°	6481.9	6574.2	6609.0
37°	6487.0	6557.8	6586.9
38°	6484.4	6535.7	6557.8
39°	6474.3	6508.5	6524.3
40°	6457.9	6475.6	6485.1
41°	6433.9	6437.0	6438.9
42°	6403.5	6392.8	6384.5
43°	6366.2	6342.2	6323.8
44°	6323.2	6287.4	6255.7



REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	6274.0	6223.7	6177.5
46°	6219.6	6151.7	6089.6
47°	6156.7	6071.8	5996.8
48°	6088.5	5983.4	5895.7
49°	6013.2	5882.0	5785.2
50°	5927.7	5773.7	5661.4
51°	5833.3	5651.8	5525.9
52°	5726.8	5519.4	5380.0
53°	5612.5	5375.5	5224.6
54°	5488.3	5219.5	5060.8
55°	5355.6	5053.8	4887.8
56°	5208.5	4878.2	4707.3
57°	5053.6	4695.4	4522.0
58°	4889.9	4504.8	4329.5
59°	4721.1	4310.0	4132.4
60°	4544.6	4113.3	3919.9
61°	4364.2	3903.9	3694.2
62°	4178.8	3685.2	3454.0
63°	3992.8	3463.8	3209.0
64°	3805.8	3238.0	2966.8
65°	3617.5	3017.5	2744.9
66°	3430.6	2811.7	2553.1
67°	3241.9	2628.9	2392.8
68°	3056.5	2466.7	2227.9
69°	2880.8	2297.4	1987.0
70°	2716.6	2090.8	1630.9
71°	2548.1	1796.6	1155.5
72°	2359.2	1388.2	720.3
73°	2136.3	936.7	542.7
74°	1825.8	546.0	367.1
75°	1422.3	383.7	191.4
76°	1005.7	222.9	163.3
77°	654.6	179.9	141.5
78°	504.1	152.9	123.8
79°	353.7	131.9	108.9
80°	203.3	114.2	95.1
81°	163.6	98.5	82.6
82°	136.7	84.4	71.0
83°	114.0	71.5	60.7
84°	91.7	60.3	50.3
85°	68.5	48.9	39.8
86°	52.8	37.4	30.2
87°	37.1	27.1	20.9
88°	21.5	17.4	12.5
89°	9.1	8.0	5.8



REPORT NUMBER: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

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: P1436747

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)