

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: P1436749

Luminaire Tested: XAS180-SFPM (5000K-108W-T4)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436749
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-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
OPTICS - TYPE 4
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

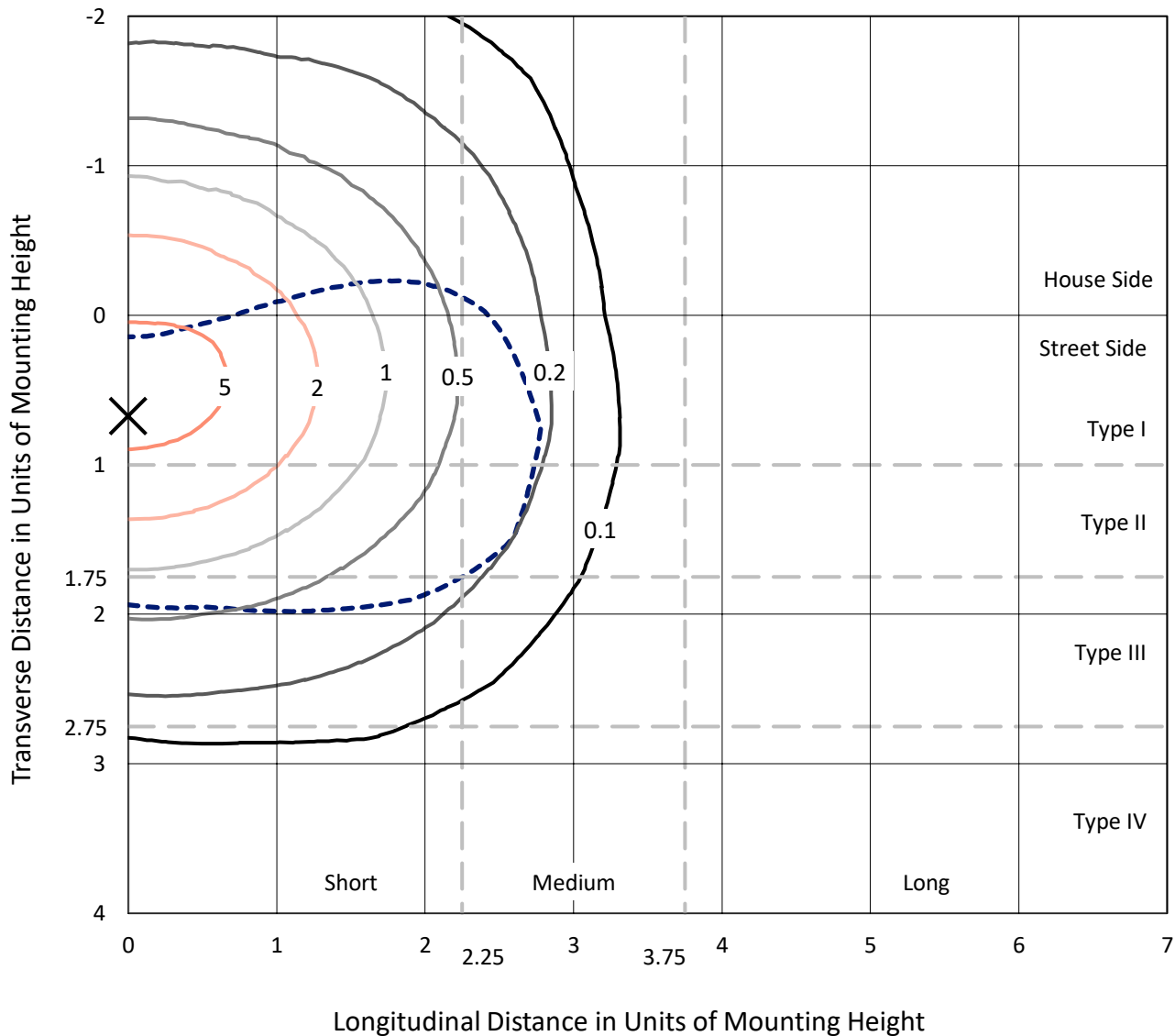
Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 18100.4 lumens
Efficiency: 74.2%
Efficacy: 168.1 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 107.7
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

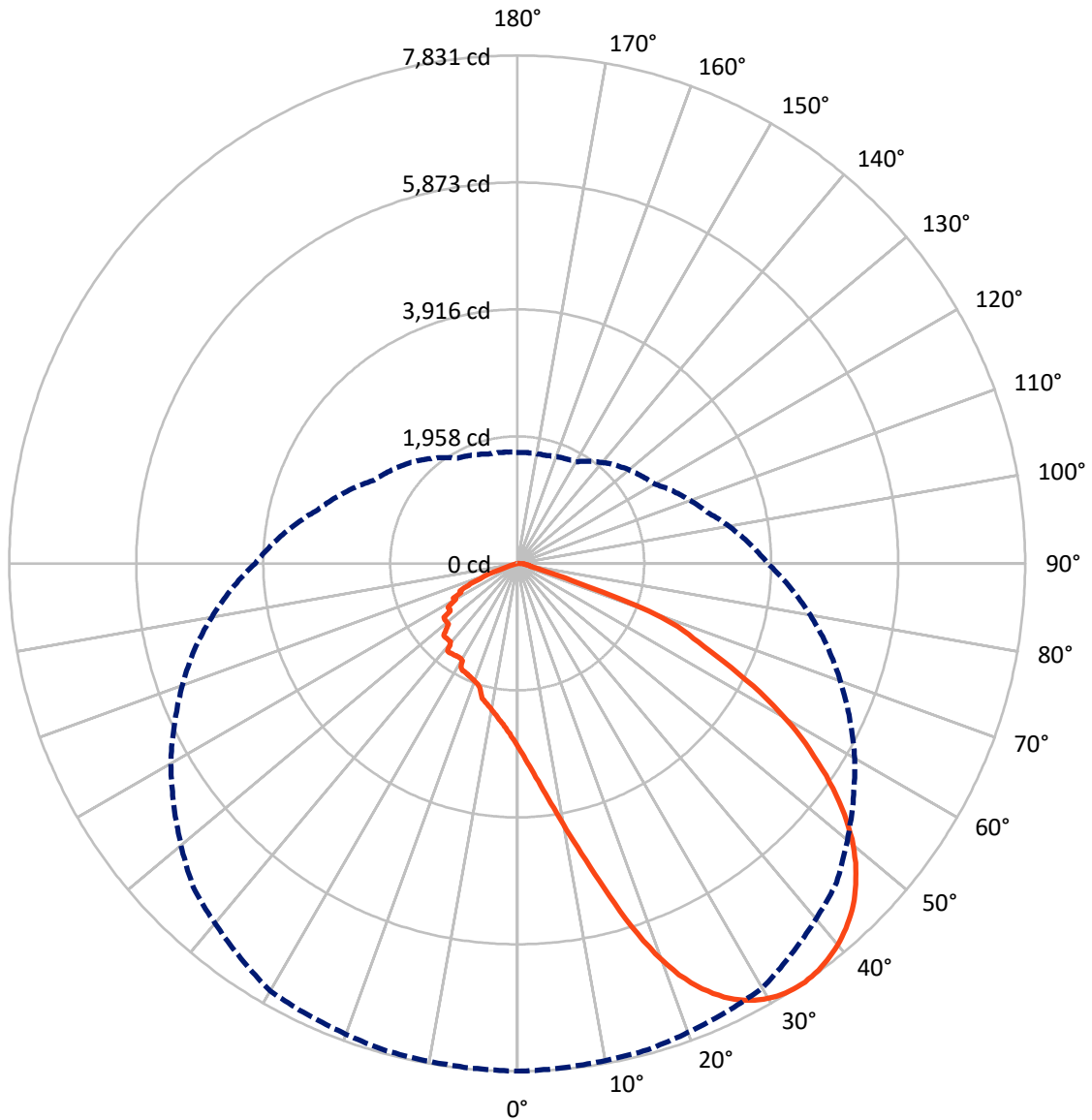
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 34-Deg Vertical

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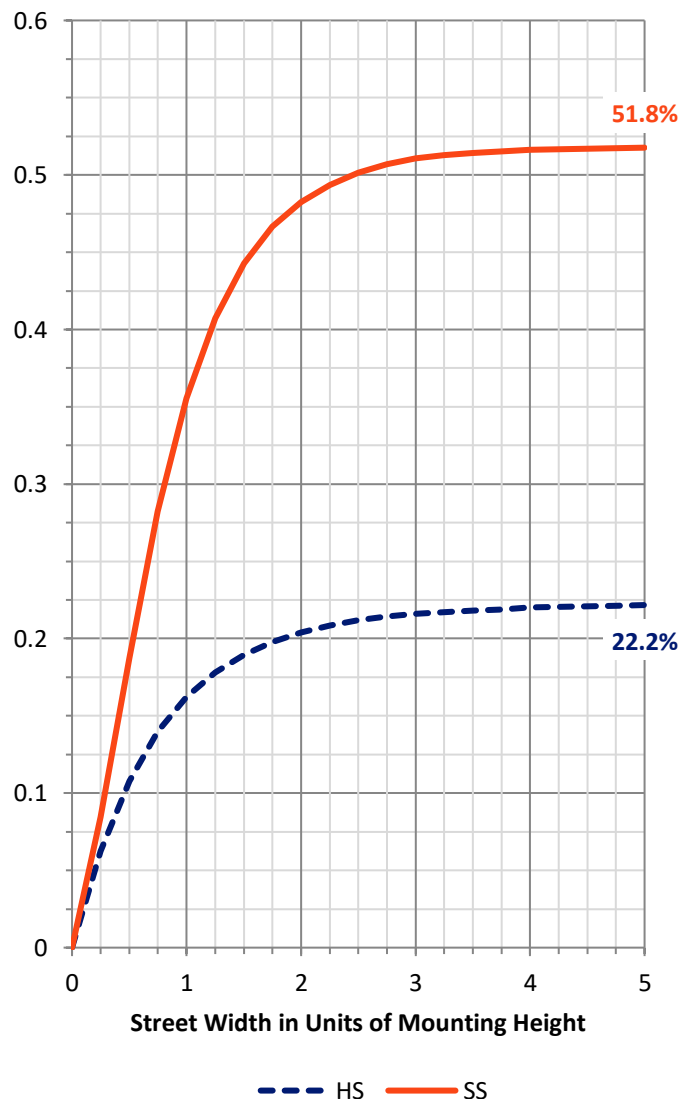
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5443.6	0.0	5443.6
	% Lamp	22.3	0.0	22.3
Street Side	Lumens	12656.8	0.0	12656.8
	% Lamp	51.9	0.0	51.9
Total	Lumens	18100.4	0.0	18100.4
	% Lamp	74.2	0.0	74.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	284.3	1.6	1.2
10°-20°	987.5	5.5	4.0
20°-30°	1916.0	10.6	7.9
30°-40°	2816.8	15.6	11.5
40°-50°	3495.3	19.3	14.3
50°-60°	3724.3	20.6	15.3
60°-70°	3237.7	17.9	13.3
70°-80°	1497.8	8.3	6.1
80°-90°	140.7	0.8	0.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	18100.4	100.0	74.2
0°-180°	18100.4	100.0	74.2

Coefficient of Utilization



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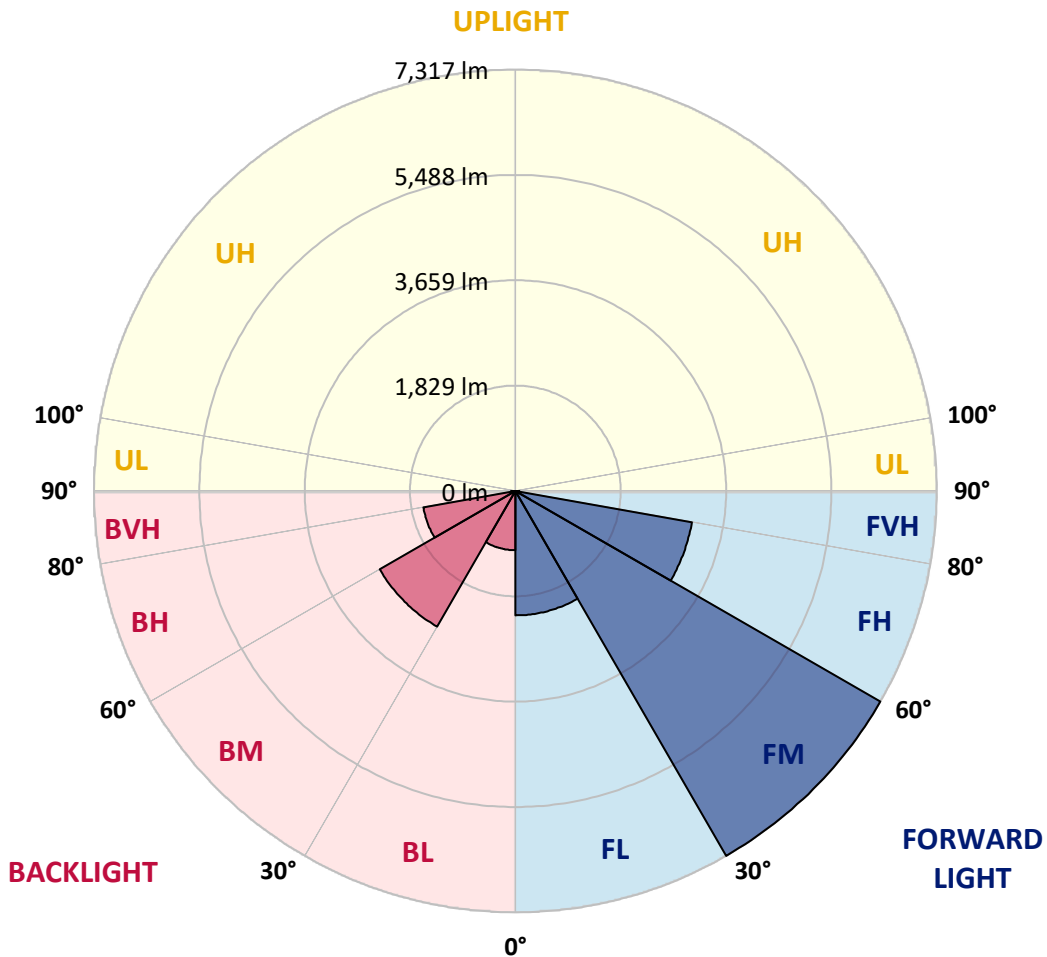
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2160.2	8.9			
FM (30°-60°)	7317.3	30.0			
FH (60°-80°)	3113.3	12.8			G2/5000
FVH (80°-90°)	66.0	0.3			G1/100
BL (0°-30°)	1027.6	4.2	B3/2500		
BM (30°-60°)	2719.1	11.1	B3/5000		
BH (60°-80°)	1622.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	74.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	6306.6	25.8			

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5
1°	2933.3	2931.5	2924.4	2911.1	2893.2	2872.4	2834.8	2815.3	2797.7	2783.7	2773.4
2°	3029.5	3025.5	3006.5	2977.5	2939.0	2895.7	2836.1	2795.8	2760.0	2731.7	2709.4
3°	3134.2	3123.8	3094.2	3047.8	2990.0	2924.1	2840.7	2780.6	2727.2	2683.8	2651.7
4°	3249.3	3233.9	3191.9	3126.3	3044.1	2954.4	2847.5	2767.7	2697.6	2640.3	2599.6
5°	3374.9	3355.2	3296.4	3210.9	3102.6	2988.0	2856.8	2756.5	2670.8	2601.9	2553.5
6°	3512.8	3484.3	3412.1	3303.0	3168.4	3024.8	2868.0	2748.4	2646.1	2567.7	2511.1
7°	3658.8	3624.1	3535.3	3401.5	3237.2	3065.6	2883.6	2744.1	2626.1	2536.4	2471.1
8°	3818.4	3778.2	3669.4	3506.9	3311.6	3109.5	2902.3	2742.7	2608.9	2507.7	2435.4
9°	3992.1	3943.9	3812.1	3620.6	3390.8	3156.6	2922.7	2742.4	2595.3	2481.6	2401.7
10°	4173.7	4115.7	3965.1	3738.9	3474.9	3207.9	2946.2	2745.2	2582.6	2459.3	2370.0
11°	4371.0	4304.4	4127.8	3866.6	3564.1	3262.4	2972.0	2750.0	2572.2	2438.8	2341.5
12°	4585.1	4506.8	4299.6	4003.8	3657.1	3319.6	2999.6	2756.6	2564.5	2420.2	2315.9
13°	4812.8	4721.0	4485.8	4146.7	3756.4	3380.4	3028.9	2764.3	2557.8	2402.9	2292.2
14°	5060.5	4958.2	4685.6	4298.4	3860.1	3443.1	3058.0	2772.3	2551.8	2387.3	2270.0
15°	5325.4	5206.2	4897.3	4459.8	3969.0	3507.6	3090.2	2781.7	2547.2	2372.9	2247.8
16°	5598.7	5463.9	5116.7	4631.4	4082.7	3574.5	3124.2	2793.0	2543.7	2359.3	2227.7
17°	5867.6	5719.6	5332.2	4807.8	4203.1	3644.2	3159.3	2804.8	2541.2	2346.8	2207.4
18°	6135.7	5970.6	5548.7	4981.5	4329.7	3716.5	3194.9	2815.2	2539.4	2335.2	2176.2
19°	6384.6	6212.5	5762.1	5152.9	4459.9	3791.3	3219.7	2817.7	2534.2	2324.8	2103.4
20°	6612.6	6436.1	5969.4	5324.0	4589.8	3862.3	3250.9	2824.8	2522.6	2314.5	2051.7
21°	6817.0	6640.9	6164.4	5489.0	4721.9	3927.0	3282.4	2840.7	2513.8	2303.0	2037.9
22°	6994.9	6824.5	6348.0	5648.2	4850.8	4003.5	3323.7	2857.2	2515.3	2261.9	2025.4
23°	7152.3	6990.9	6515.5	5801.8	4978.7	4077.5	3367.5	2872.3	2516.9	2209.5	2014.8
24°	7289.8	7136.9	6673.9	5945.5	5091.2	4163.3	3408.3	2881.3	2513.5	2167.6	2006.8
25°	7408.9	7265.1	6816.8	6084.0	5199.4	4252.8	3442.7	2893.8	2510.0	2160.7	1999.0
26°	7509.5	7375.6	6947.1	6211.3	5306.2	4340.5	3478.9	2906.1	2507.9	2152.5	1992.8
27°	7594.0	7471.6	7067.6	6336.2	5409.2	4426.5	3519.5	2925.5	2512.8	2141.5	1986.2
28°	7663.7	7551.0	7172.3	6453.5	5505.1	4502.8	3561.2	2944.8	2520.2	2133.7	1980.1
29°	7721.6	7615.5	7264.0	6560.9	5599.2	4574.9	3610.3	2964.3	2526.5	2133.4	1975.3
30°	7765.3	7668.9	7345.3	6663.0	5694.8	4650.1	3659.4	2985.1	2518.0	2135.2	1970.6
31°	7799.4	7709.7	7415.3	6755.8	5783.3	4726.1	3710.6	3006.5	2480.5	2137.9	1961.5
32°	7820.2	7739.3	7473.1	6832.5	5866.4	4798.7	3761.3	3025.1	2472.6	2140.4	1949.5
33°	7830.6	7757.1	7522.8	6900.6	5941.9	4874.7	3812.3	3030.8	2443.0	2142.9	1873.4
34°	7831.3	7764.6	7561.4	6962.0	6007.8	4949.0	3861.7	3036.8	2446.2	2143.0	1807.9
35°	7822.4	7763.8	7590.3	7020.4	6066.6	5019.8	3898.0	3051.8	2451.1	2141.3	1804.1
36°	7805.4	7754.9	7607.3	7071.8	6121.7	5087.7	3928.0	3069.1	2457.4	2140.4	1805.5
37°	7779.4	7737.9	7615.5	7114.6	6175.5	5152.6	3962.3	3087.4	2468.3	2143.4	1806.8
38°	7746.8	7712.7	7616.2	7147.4	6228.2	5217.1	4004.9	3108.1	2475.2	2144.1	1805.5
39°	7706.7	7682.2	7608.1	7174.7	6274.8	5275.6	4043.1	3130.4	2476.9	2041.8	1804.3
40°	7660.7	7644.4	7589.5	7196.1	6319.8	5324.3	4084.2	3146.8	2487.6	1994.8	1808.8
41°	7605.9	7598.4	7565.1	7212.7	6358.8	5359.0	4123.7	3161.5	2503.9	2001.7	1813.2
42°	7542.8	7547.3	7531.7	7227.1	6400.2	5392.6	4164.2	3174.4	2520.3	2011.2	1818.2
43°	7470.9	7487.2	7490.2	7231.5	6439.2	5427.2	4202.2	3181.7	2537.6	2022.0	1820.0
44°	7389.8	7420.5	7442.0	7226.6	6474.2	5465.0	4234.0	3203.6	2556.2	2033.8	1761.5



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	7298.1	7343.9	7384.5	7211.4	6505.3	5501.3	4259.2	3234.1	2575.7	2043.9	1681.8
46°	7193.1	7257.2	7320.9	7187.7	6534.2	5537.4	4282.0	3265.5	2583.8	2043.6	1683.9
47°	7082.4	7158.2	7249.4	7153.8	6559.2	5571.6	4296.5	3297.9	2582.8	2048.9	1688.8
48°	6965.9	7051.7	7169.3	7110.9	6577.9	5599.9	4307.2	3331.8	2591.7	2061.0	1691.1
49°	6833.8	6929.4	7079.0	7062.0	6588.5	5627.9	4329.6	3360.7	2546.8	2068.5	1689.0
50°	6687.0	6798.0	6976.2	7003.8	6589.1	5653.7	4360.6	3366.9	2506.9	2003.0	1689.3
51°	6528.3	6651.0	6859.7	6933.7	6576.7	5670.3	4391.6	3345.1	2470.0	1922.7	1692.0
52°	6357.5	6491.5	6732.8	6853.0	6559.6	5679.1	4419.6	3365.2	2488.4	1929.0	1616.1
53°	6175.5	6318.1	6591.9	6763.8	6532.2	5683.0	4444.3	3371.8	2505.0	1941.0	1534.2
54°	5980.0	6129.6	6440.7	6661.6	6496.1	5682.1	4466.3	3368.2	2513.9	1957.2	1542.1
55°	5780.6	5935.4	6277.0	6548.5	6448.1	5666.6	4484.2	3388.4	2528.0	1966.1	1553.1
56°	5565.0	5731.5	6099.8	6425.8	6394.1	5639.3	4487.9	3401.4	2550.7	1972.5	1565.5
57°	5350.4	5518.1	5917.7	6289.7	6331.9	5604.4	4483.5	3401.4	2569.1	1969.8	1577.6
58°	5127.3	5299.0	5726.6	6142.5	6257.9	5572.0	4465.7	3413.1	2577.3	1864.2	1583.9
59°	4894.4	5076.5	5525.7	5989.1	6171.2	5538.1	4448.9	3424.1	2594.5	1839.1	1458.6
60°	4645.6	4843.9	5319.8	5821.6	6068.7	5496.2	4433.0	3415.8	2524.3	1864.3	1469.0
61°	4379.7	4598.3	5104.2	5647.1	5952.2	5444.5	4405.0	3386.4	2484.4	1894.3	1473.3
62°	4102.0	4342.9	4886.6	5461.9	5828.6	5378.8	4373.6	3377.3	2500.7	1926.3	1430.6
63°	3810.9	4075.8	4665.9	5268.1	5689.8	5297.8	4330.1	3353.1	2512.9	1950.6	1388.1
64°	3529.1	3812.4	4445.1	5070.3	5534.9	5202.1	4270.2	3314.5	2522.1	1859.7	1378.9
65°	3273.5	3549.8	4216.0	4866.4	5368.4	5088.8	4197.0	3269.8	2509.9	1869.4	1394.4
66°	3048.9	3312.1	3992.4	4659.5	5190.6	4956.9	4101.0	3203.3	2441.3	1893.2	1312.8
67°	2864.3	3095.4	3770.2	4454.0	5000.3	4803.4	3999.8	3133.3	2365.5	1877.9	1293.8
68°	2666.1	2905.3	3553.9	4243.0	4785.8	4631.7	3848.1	3030.3	2383.9	1831.5	1326.7
69°	2375.1	2705.1	3350.6	4037.5	4559.2	4425.7	3618.6	2907.8	2394.9	1844.1	1213.6
70°	1948.3	2440.5	3160.9	3829.7	4326.9	4170.4	3286.4	2742.7	2399.7	1794.7	1208.1
71°	1387.0	2071.1	2970.7	3623.1	4063.7	3867.7	2905.3	2527.3	2350.9	1798.8	1045.7
72°	882.8	1568.3	2756.8	3408.6	3771.5	3512.1	2578.7	2287.5	2261.8	1788.6	1008.4
73°	679.4	1038.2	2500.3	3187.9	3445.0	3126.4	2268.3	2077.6	2173.0	1762.0	935.4
74°	482.4	631.1	2153.8	2939.0	3098.6	2734.6	1835.7	1922.5	2076.3	1777.0	847.7
75°	285.3	465.0	1673.3	2620.4	2721.3	2312.6	1403.0	1626.4	1966.1	1740.1	816.4
76°	251.7	303.9	1167.9	2227.2	2332.4	1787.1	970.1	1330.3	1869.1	1692.6	795.7
77°	225.1	261.0	761.9	1740.2	1928.5	1176.0	529.8	1033.4	1788.5	1530.7	750.9
78°	203.5	230.4	595.7	1161.5	1497.1	676.4	276.4	596.4	1554.9	1368.8	677.4
79°	184.3	205.8	436.9	633.4	1041.4	469.3	226.1	436.8	1321.4	1205.4	575.2
80°	166.9	184.5	278.1	437.2	651.0	263.7	175.8	277.3	1084.1	983.4	492.7
81°	150.8	165.3	235.2	249.3	427.3	222.6	126.1	120.4	602.0	735.9	445.2
82°	135.9	147.6	204.0	213.2	207.9	190.2	106.4	93.5	441.2	586.2	443.5
83°	121.6	131.0	176.6	186.1	161.4	154.4	88.6	72.2	280.4	464.4	364.3
84°	107.7	115.5	149.4	161.7	131.1	117.1	71.9	56.5	120.2	331.6	271.0
85°	94.5	101.0	120.7	138.5	104.5	89.4	55.6	43.6	105.6	245.4	191.5
86°	81.4	87.2	98.5	115.9	81.4	69.2	40.8	33.1	84.5	159.2	112.4
87°	70.0	74.1	79.7	91.3	63.6	52.2	31.3	25.6	62.7	74.0	68.9
88°	58.8	63.1	65.3	70.2	46.0	35.2	21.8	18.2	47.5	50.3	47.0
89°	47.5	52.1	51.0	49.1	28.4	20.5	12.4	10.8	32.4	26.7	25.0



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CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5	2844.5
1°	2768.8	2768.9	2772.9	2783.2	2796.8	2814.5	2833.5	2839.4	2862.1	2883.3	2901.8
2°	2698.6	2696.7	2704.9	2722.4	2748.2	2780.4	2818.8	2845.8	2890.6	2933.9	2972.3
3°	2634.9	2630.6	2641.2	2665.9	2703.5	2751.0	2807.0	2855.8	2922.3	2987.0	3045.3
4°	2577.2	2572.7	2584.5	2614.8	2662.5	2724.9	2798.6	2867.6	2956.9	3044.6	3126.4
5°	2526.3	2519.8	2533.1	2569.4	2625.6	2702.0	2792.9	2882.3	2995.3	3108.6	3213.6
6°	2477.8	2470.0	2486.0	2527.9	2593.8	2681.3	2789.2	2899.6	3037.2	3178.4	3308.7
7°	2433.7	2424.1	2441.8	2489.0	2563.9	2664.4	2788.7	2921.0	3081.9	3251.6	3410.5
8°	2392.9	2381.4	2401.1	2454.0	2537.2	2649.4	2790.4	2942.5	3130.4	3329.6	3519.8
9°	2354.1	2340.8	2362.9	2421.3	2513.6	2637.1	2793.6	2967.1	3183.2	3413.4	3637.3
10°	2318.0	2303.6	2327.9	2391.5	2491.1	2626.3	2798.4	2994.5	3237.8	3501.9	3760.1
11°	2284.7	2268.6	2295.3	2364.6	2472.3	2617.6	2805.7	3025.5	3297.9	3596.4	3892.4
12°	2254.2	2237.0	2264.1	2339.1	2455.3	2610.7	2815.5	3057.6	3358.6	3696.7	4032.6
13°	2226.4	2206.9	2236.4	2315.8	2440.1	2606.3	2827.0	3092.1	3423.8	3801.7	4182.9
14°	2199.7	2177.8	2209.7	2294.1	2427.0	2603.3	2839.7	3127.3	3491.2	3910.9	4342.0
15°	2173.4	2149.4	2183.6	2273.4	2415.2	2602.6	2853.0	3164.9	3561.7	4030.0	4512.8
16°	2143.2	2085.9	2154.6	2253.7	2403.6	2602.9	2866.9	3204.3	3635.0	4152.2	4692.5
17°	2060.8	2014.8	2076.3	2234.2	2393.1	2603.4	2883.6	3243.8	3711.7	4283.3	4873.7
18°	2002.8	1977.6	2016.9	2203.9	2384.0	2605.1	2900.3	3285.0	3791.1	4418.6	5057.2
19°	1981.6	1956.0	1994.4	2137.0	2374.9	2605.3	2906.9	3320.4	3872.9	4556.1	5242.4
20°	1963.4	1936.5	1976.0	2086.9	2366.0	2597.1	2918.4	3353.0	3958.6	4695.6	5421.9
21°	1947.4	1920.4	1959.7	2068.3	2355.6	2591.6	2935.3	3390.0	4036.5	4836.9	5594.3
22°	1934.4	1905.6	1946.8	2057.1	2315.2	2595.5	2957.0	3435.2	4115.6	4978.3	5757.3
23°	1923.2	1893.2	1936.4	2047.3	2266.8	2601.0	2978.6	3484.1	4205.7	5113.8	5908.6
24°	1912.7	1881.8	1926.7	2039.7	2231.4	2606.6	2997.4	3534.2	4295.6	5247.3	6053.1
25°	1903.5	1870.8	1917.5	2033.4	2221.8	2605.1	3010.7	3581.6	4392.8	5362.9	6188.0
26°	1894.0	1861.9	1909.6	2028.4	2217.8	2604.9	3027.9	3621.7	4490.5	5468.8	6316.4
27°	1886.3	1854.4	1902.4	2024.1	2208.6	2606.4	3044.1	3666.6	4589.1	5573.9	6437.3
28°	1879.9	1847.9	1896.6	2019.8	2202.0	2615.3	3067.9	3713.5	4681.4	5674.4	6552.4
29°	1873.4	1820.5	1890.3	2016.3	2201.3	2623.8	3092.3	3765.8	4762.7	5764.4	6657.4
30°	1822.5	1721.4	1847.4	2013.7	2204.8	2617.1	3116.9	3820.4	4844.6	5856.2	6757.0
31°	1736.5	1702.3	1760.0	2005.4	2209.1	2596.2	3141.1	3875.2	4926.3	5944.2	6849.8
32°	1722.4	1702.9	1744.4	1996.0	2214.6	2575.9	3164.4	3930.9	5002.9	6027.3	6933.8
33°	1721.2	1705.2	1743.7	1939.1	2220.1	2556.1	3174.7	3985.9	5078.3	6101.7	7004.0
34°	1721.9	1709.4	1744.5	1870.6	2225.5	2556.9	3185.2	4041.7	5154.2	6168.0	7064.0
35°	1723.4	1715.0	1746.7	1861.3	2226.5	2563.0	3202.7	4088.9	5226.7	6225.2	7116.8
36°	1726.1	1720.0	1750.1	1863.8	2227.0	2570.5	3222.4	4125.5	5294.4	6278.3	7166.8
37°	1727.0	1724.2	1752.3	1867.4	2227.5	2580.3	3244.3	4164.5	5358.7	6330.5	7210.3
38°	1727.3	1728.1	1753.8	1866.9	2227.8	2591.5	3268.8	4208.1	5420.1	6381.3	7246.3
39°	1726.8	1728.3	1755.1	1866.2	2144.2	2596.3	3295.2	4250.3	5477.9	6426.2	7272.3
40°	1723.3	1633.4	1753.0	1870.0	2095.1	2604.4	3320.1	4294.9	5528.3	6467.7	7294.2
41°	1625.9	1584.6	1667.6	1876.0	2096.1	2622.5	3337.3	4337.5	5565.0	6506.8	7307.6
42°	1572.1	1585.3	1604.5	1882.3	2105.3	2641.5	3350.6	4378.6	5595.2	6546.4	7315.2
43°	1571.2	1588.0	1603.9	1886.7	2116.2	2661.6	3359.1	4421.1	5626.5	6580.1	7315.6
44°	1572.5	1590.0	1606.6	1846.8	2128.5	2682.4	3384.7	4461.3	5656.0	6611.0	7309.0

REPORT NUMBER: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1574.4	1590.0	1609.8	1757.1	2140.4	2702.4	3417.1	4491.4	5687.2	6635.9	7290.3
46°	1576.1	1587.6	1612.3	1752.7	2143.4	2713.0	3450.7	4513.9	5718.4	6657.9	7259.4
47°	1577.2	1530.5	1614.2	1758.3	2146.4	2714.5	3484.6	4528.0	5744.7	6674.9	7216.8
48°	1524.9	1473.4	1614.1	1761.4	2160.6	2725.1	3517.9	4535.7	5768.6	6684.3	7168.2
49°	1472.7	1417.3	1519.6	1758.5	2168.9	2717.4	3550.3	4555.8	5785.7	6687.0	7110.0
50°	1420.7	1414.1	1451.5	1758.2	2124.8	2656.9	3570.4	4581.4	5798.5	6675.9	7046.3
51°	1426.0	1412.5	1456.1	1761.8	2028.3	2620.7	3554.5	4604.1	5805.3	6650.4	6972.8
52°	1433.7	1412.8	1463.3	1704.3	2029.3	2633.4	3544.3	4624.8	5804.1	6618.0	6888.7
53°	1441.8	1412.3	1471.0	1608.0	2044.4	2652.2	3557.2	4640.7	5793.3	6576.4	6794.3
54°	1448.3	1405.9	1436.4	1616.2	2063.7	2661.6	3552.1	4651.2	5775.4	6526.8	6686.1
55°	1451.3	1272.8	1401.7	1628.6	2074.9	2667.8	3549.5	4658.3	5742.5	6469.3	6571.5
56°	1325.5	1252.0	1367.1	1643.3	2084.4	2692.2	3554.0	4650.7	5693.3	6406.0	6444.7
57°	1302.3	1257.7	1338.8	1658.4	2082.9	2710.3	3546.5	4628.4	5639.8	6335.9	6310.9
58°	1308.1	1264.1	1344.9	1669.1	1993.1	2716.0	3546.7	4594.8	5584.9	6251.0	6165.3
59°	1316.6	1208.4	1352.5	1547.2	1962.9	2727.4	3548.4	4562.1	5531.8	6158.2	6010.4
60°	1221.0	1098.0	1267.0	1549.0	1990.5	2669.2	3527.6	4526.1	5471.1	6050.9	5841.5
61°	1164.0	1110.2	1205.8	1557.6	2020.8	2603.7	3483.6	4480.8	5397.3	5930.7	5661.1
62°	1178.0	1121.6	1221.4	1574.1	2052.1	2605.4	3463.0	4427.7	5313.4	5798.6	5477.9
63°	1192.6	982.0	1234.2	1478.3	2077.1	2606.6	3435.8	4365.9	5217.3	5648.9	5284.2
64°	1038.1	969.3	1075.2	1465.9	1987.0	2607.0	3385.3	4283.0	5106.9	5491.9	5087.8
65°	1048.0	981.2	1080.0	1438.2	1989.0	2590.0	3333.1	4179.2	4979.0	5319.9	4881.4
66°	1055.2	819.6	1093.8	1410.5	2001.5	2526.9	3256.6	4063.2	4826.8	5140.2	4668.4
67°	873.8	793.1	906.9	1384.3	1987.8	2429.7	3169.9	3923.6	4662.1	4942.4	4457.2
68°	888.6	612.2	917.4	1414.3	1936.4	2435.8	3042.4	3715.0	4464.7	4725.9	4242.8
69°	710.5	552.2	738.2	1300.8	1933.3	2435.2	2877.3	3416.9	4229.6	4492.8	4036.7
70°	678.6	377.9	696.7	1287.9	1886.8	2429.6	2662.8	3023.6	3937.8	4234.5	3817.2
71°	449.3	203.6	450.8	1122.3	1866.1	2371.7	2414.9	2651.4	3588.8	3946.6	3591.0
72°	278.8	31.1	263.8	1084.6	1852.9	2265.2	2171.6	2321.1	3194.4	3626.7	3361.0
73°	230.2	0.4	209.9	984.1	1813.7	2155.8	1948.1	1973.8	2787.8	3275.5	3112.1
74°	207.8	0.3	193.5	875.3	1810.0	2047.1	1672.3	1580.4	2386.1	2897.4	2838.3
75°	170.6	0.3	165.6	823.3	1717.7	1930.3	1396.4	1092.7	1954.2	2485.3	2499.2
76°	133.4	0.3	137.8	794.6	1575.9	1799.2	1119.4	635.1	1424.0	2075.4	2095.5
77°	96.6	0.3	110.0	748.3	1434.1	1577.0	689.9	421.0	874.0	1684.9	1604.2
78°	71.9	0.3	88.7	674.1	1292.0	1354.8	359.8	209.8	661.4	1274.6	1056.3
79°	71.0	0.3	88.7	570.5	1118.1	1127.7	241.5	163.9	455.7	850.7	781.9
80°	96.8	0.4	108.3	497.7	922.8	683.1	126.1	138.6	249.9	633.1	514.5
81°	119.3	0.4	113.8	464.1	698.1	493.2	99.8	118.1	213.9	417.7	247.1
82°	107.5	0.5	70.0	436.7	539.1	303.2	81.1	99.2	182.8	202.4	213.0
83°	66.7	0.6	49.3	363.7	383.9	115.9	65.5	81.8	149.1	158.3	187.0
84°	36.4	0.6	28.7	261.1	276.9	98.0	52.1	66.5	116.1	129.0	162.3
85°	27.1	0.7	8.2	158.5	169.8	77.8	40.8	51.3	88.5	102.2	138.7
86°	17.8	0.8	7.2	58.4	65.3	57.3	31.0	36.1	70.3	79.0	115.6
87°	8.7	0.9	7.2	40.5	33.5	41.0	23.5	23.8	52.1	61.8	90.2
88°	6.0	1.0	6.3	22.7	23.2	28.5	16.0	13.7	33.9	44.7	69.3
89°	4.3	1.1	3.5	5.2	12.9	15.9	8.5	9.5	19.7	27.6	48.6



REPORT NUMBER: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2844.5	2844.5	2844.5
1°	2917.2	2928.2	2933.3
2°	3001.4	3022.0	3029.5
3°	3092.2	3122.8	3134.2
4°	3192.7	3235.5	3249.3
5°	3299.2	3356.2	3374.9
6°	3417.4	3489.1	3512.8
7°	3543.3	3628.5	3658.8
8°	3677.4	3781.5	3818.4
9°	3822.7	3947.8	3992.1
10°	3976.8	4123.7	4173.7
11°	4146.1	4315.5	4371.0
12°	4324.1	4520.2	4585.1
13°	4517.3	4742.2	4812.8
14°	4720.0	4976.4	5060.5
15°	4937.5	5225.3	5325.4
16°	5156.1	5478.4	5598.7
17°	5380.5	5739.4	5867.6
18°	5605.2	5996.7	6135.7
19°	5821.4	6239.2	6384.6
20°	6028.8	6467.0	6612.6
21°	6224.3	6675.5	6817.0
22°	6405.1	6859.5	6994.9
23°	6577.6	7027.3	7152.3
24°	6738.3	7171.1	7289.8
25°	6884.0	7297.1	7408.9
26°	7015.9	7403.2	7509.5
27°	7135.0	7495.4	7594.0
28°	7240.4	7572.5	7663.7
29°	7331.8	7635.5	7721.6
30°	7411.9	7686.7	7765.3
31°	7479.8	7726.7	7799.4
32°	7535.4	7756.4	7820.2
33°	7579.9	7773.5	7830.6
34°	7616.2	7780.9	7831.3
35°	7642.2	7778.7	7822.4
36°	7657.8	7767.5	7805.4
37°	7663.7	7749.0	7779.4
38°	7661.5	7723.0	7746.8
39°	7649.6	7690.4	7706.7
40°	7629.6	7651.8	7660.7
41°	7602.9	7607.3	7605.9
42°	7568.0	7556.2	7542.8
43°	7524.3	7498.3	7470.9
44°	7472.4	7430.8	7389.8

REPORT NUMBER: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	7415.6	7356.2	7298.1
46°	7351.4	7272.4	7193.1
47°	7278.4	7175.1	7082.4
48°	7199.3	7073.2	6965.9
49°	7108.7	6954.5	6833.8
50°	7007.9	6827.2	6687.0
51°	6893.0	6684.6	6528.3
52°	6765.3	6527.1	6357.5
53°	6623.3	6356.8	6175.5
54°	6471.7	6173.5	5980.0
55°	6311.2	5980.9	5780.6
56°	6135.0	5772.8	5565.0
57°	5952.6	5553.5	5350.4
58°	5760.8	5335.5	5127.3
59°	5560.0	5109.6	4894.4
60°	5350.0	4877.0	4645.6
61°	5135.1	4629.5	4379.7
62°	4916.8	4378.3	4102.0
63°	4699.5	4116.0	3810.9
64°	4484.8	3855.3	3529.1
65°	4266.1	3595.6	3273.5
66°	4045.7	3359.5	3048.9
67°	3825.9	3143.6	2864.3
68°	3609.2	2956.3	2666.1
69°	3403.1	2755.4	2375.1
70°	3209.6	2504.5	1948.3
71°	3010.1	2159.2	1387.0
72°	2788.9	1673.3	882.8
73°	2523.9	1134.4	679.4
74°	2164.1	692.7	482.4
75°	1695.8	504.8	285.3
76°	1207.1	317.9	251.7
77°	808.9	270.1	225.1
78°	631.6	237.7	203.5
79°	459.2	211.5	184.3
80°	286.9	189.0	166.9
81°	239.5	169.2	150.8
82°	206.4	151.2	135.9
83°	177.7	134.2	121.6
84°	150.2	118.6	107.7
85°	121.5	103.2	94.5
86°	99.0	89.1	81.4
87°	79.8	75.3	70.0
88°	65.4	63.9	58.8
89°	51.1	52.5	47.5



REPORT NUMBER: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

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: P1436749

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)