

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: P1445010

Luminaire Tested: XAS180-SFPM (4000K-72W-T4)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445010
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (4000K-72W-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 4
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 12298.4 lumens
Efficiency: 43.0%
Efficacy: 175.2 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): 70.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

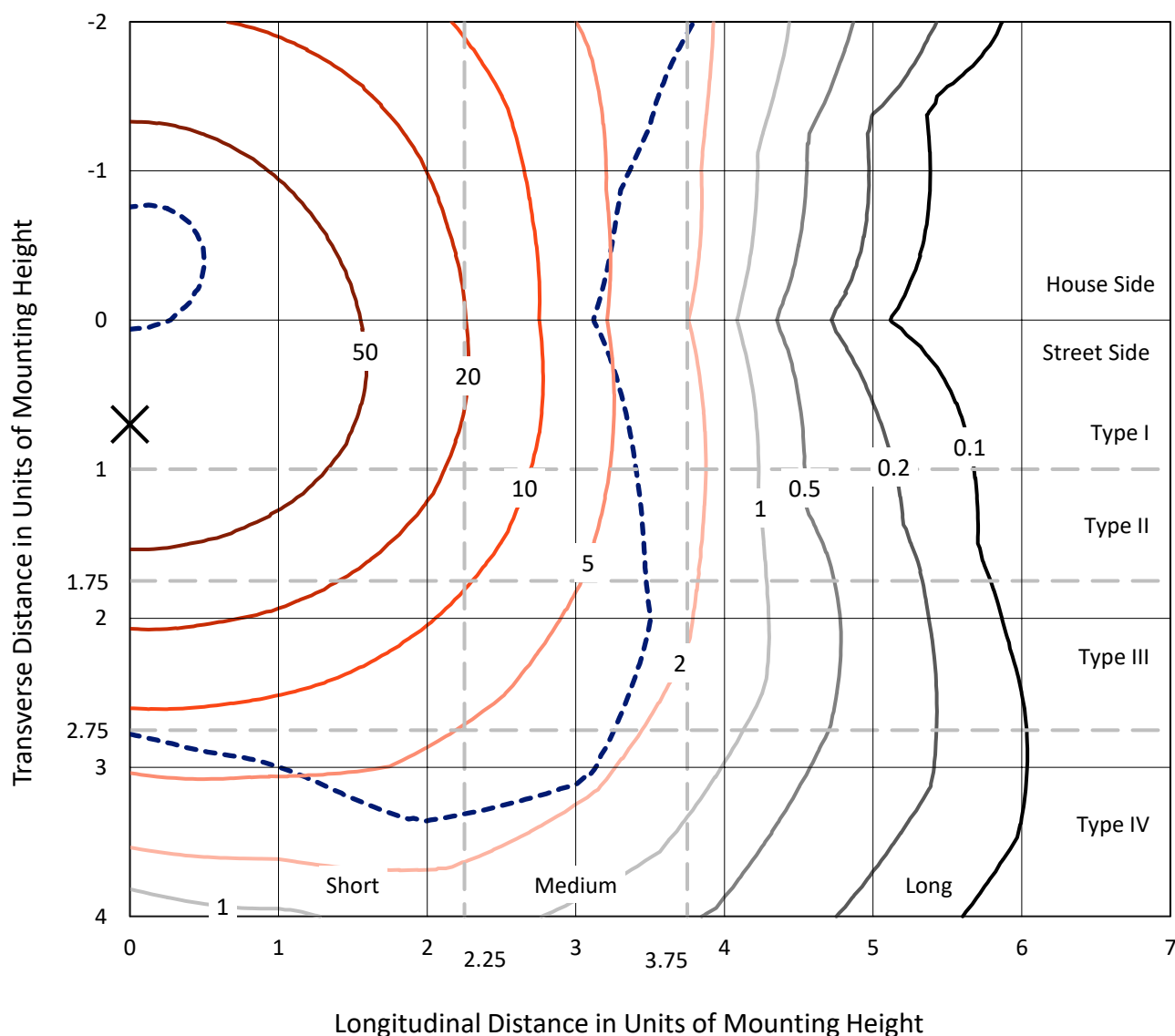
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

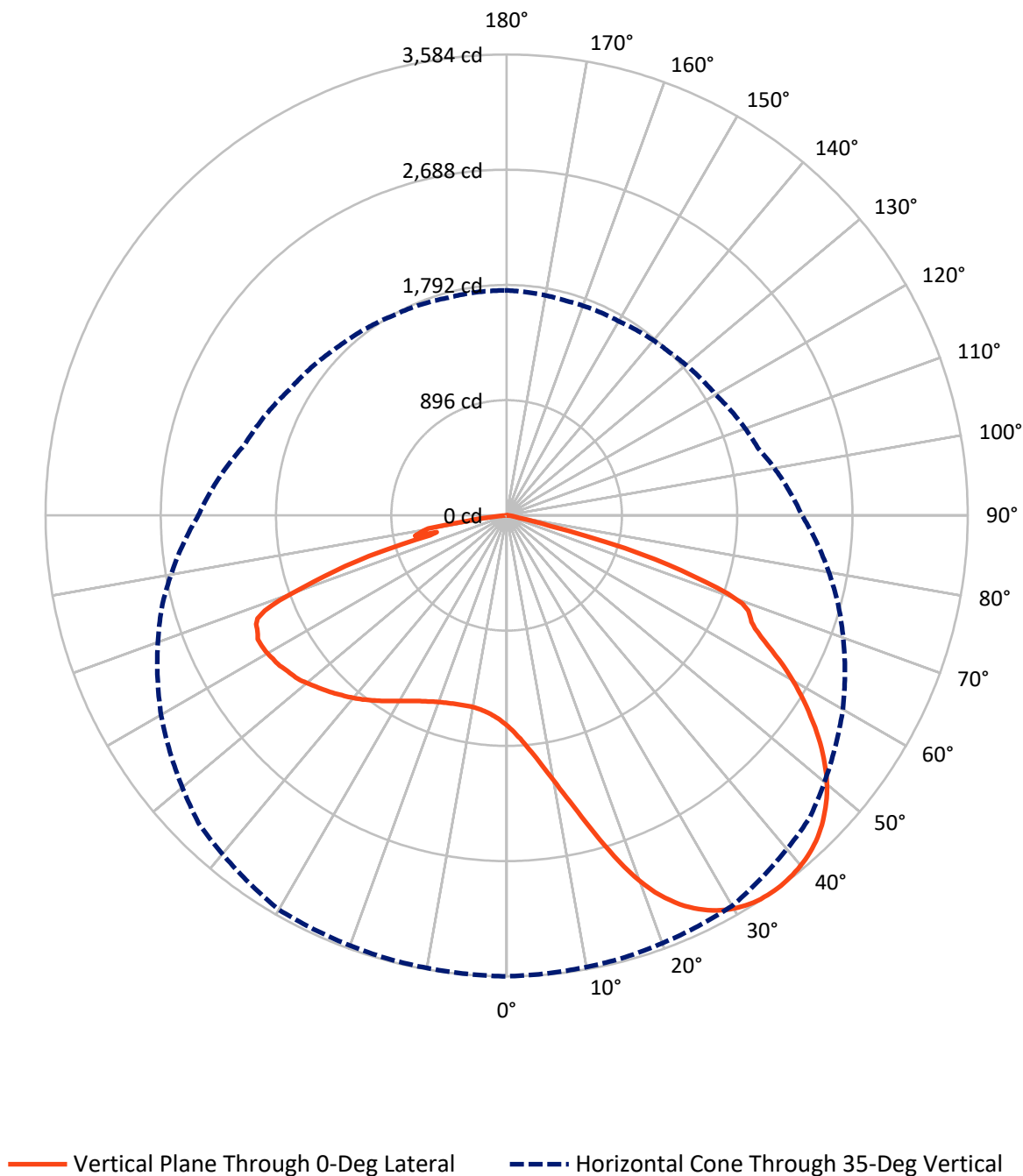


Based on 3 foot mounting height. Maximum calculated value = 283.9 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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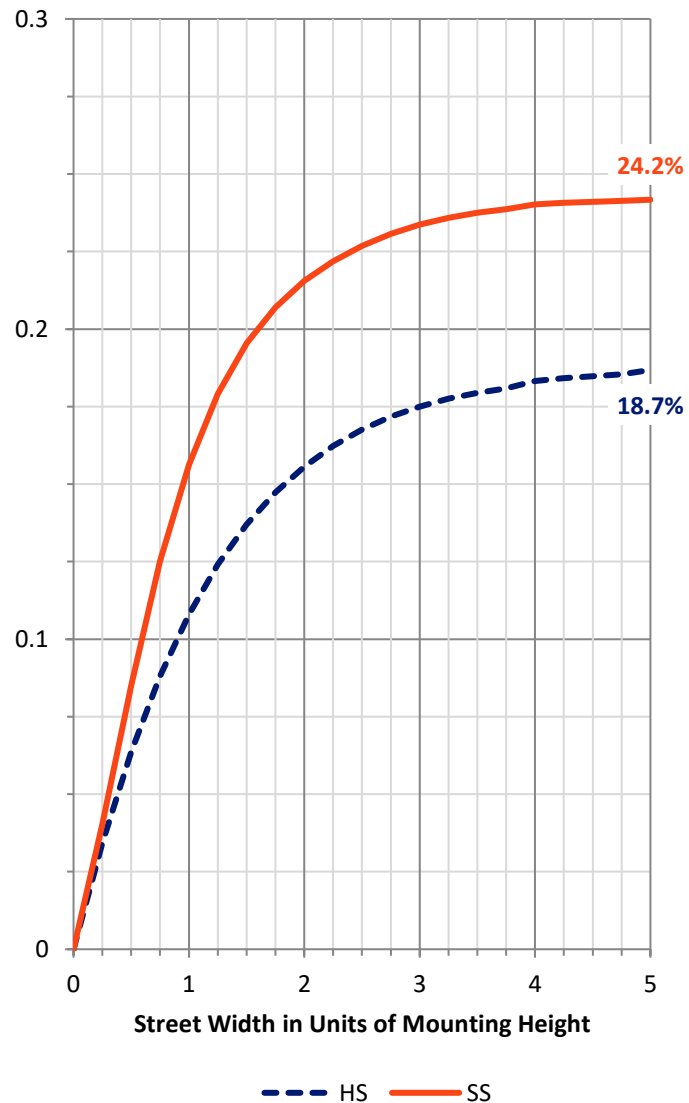
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5384.1	0.0	5384.1
	% Lamp	18.8	0.0	18.8
Street Side	Lumens	6914.3	0.0	6914.3
	% Lamp	24.2	0.0	24.2
Total	Lumens	12298.4	0.0	12298.4
	% Lamp	43.0	0.0	43.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	162.9	1.3	0.6
10°-20°	552.9	4.5	1.9
20°-30°	1061.4	8.6	3.7
30°-40°	1598.9	13.0	5.6
40°-50°	2091.0	17.0	7.3
50°-60°	2459.1	20.0	8.6
60°-70°	2565.6	20.9	9.0
70°-80°	1642.6	13.4	5.7
80°-90°	163.9	1.3	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°	12298.4	100.0	43.0
0°-180°	12298.4	100.0	43.0

Coefficient of Utilization



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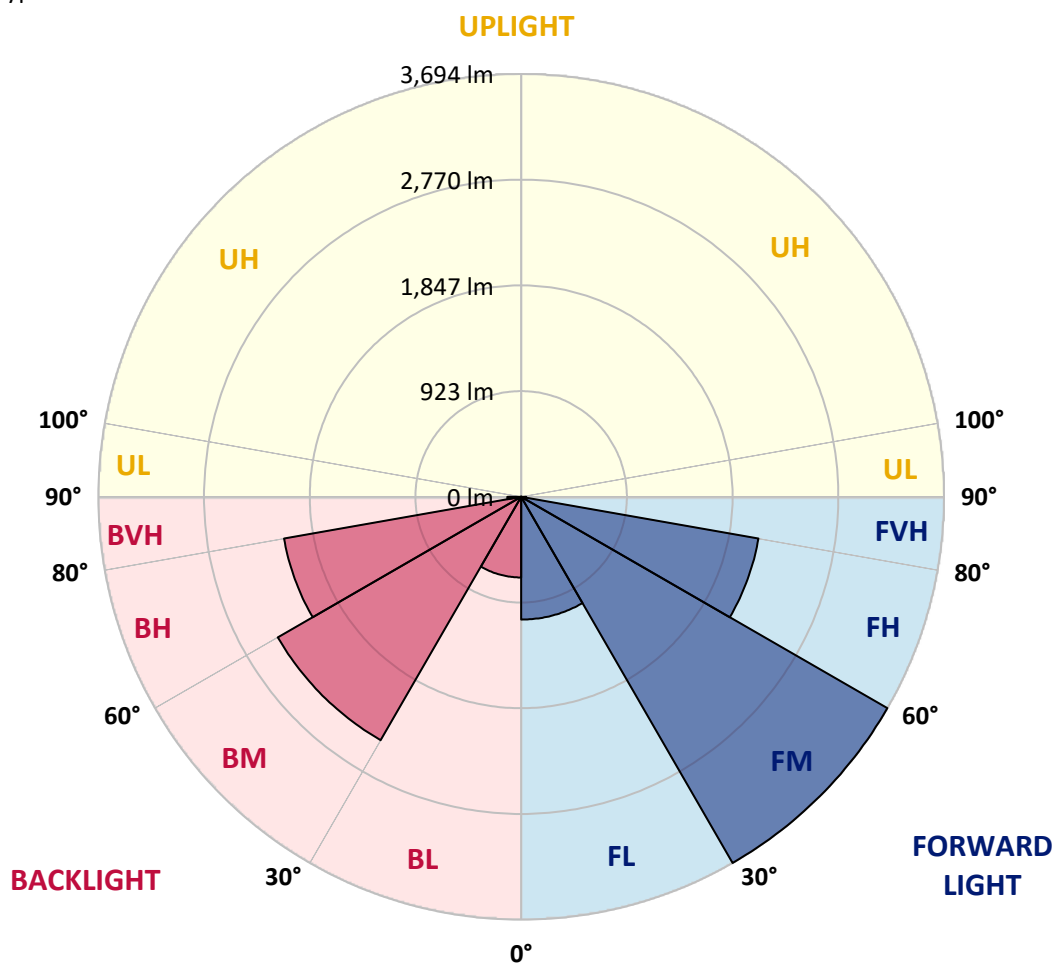
CATALOG NUMBER: XAS180-SFPM (4000K-72W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1072.5	3.7			
FM	(30°-60°)	3693.9	12.9			
FH	(60°-80°)	2104.7	7.4			G2/5000
FVH	(80°-90°)	43.2	0.2			G1/100
BL	(0°-30°)	704.8	2.5	B2/1000		
BM	(30°-60°)	2455.1	8.6	B2/2500		
BH	(60°-80°)	2103.5	7.3	B3/2500		G3/2500
BVH	(80°-90°)	120.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		16329.6	57.0			

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
1°	1670.4	1669.9	1667.7	1663.7	1658.2	1652.3	1639.6	1632.9	1627.6	1623.0	1620.1
2°	1702.7	1701.2	1695.5	1685.8	1673.1	1659.8	1640.1	1627.5	1616.3	1607.2	1601.4
3°	1739.1	1736.1	1726.0	1710.5	1691.3	1670.0	1643.0	1623.8	1607.2	1594.1	1584.8
4°	1779.5	1774.5	1760.0	1738.2	1711.2	1681.8	1646.8	1621.7	1600.0	1583.3	1571.4
5°	1825.1	1818.2	1798.3	1768.4	1733.5	1695.5	1652.2	1620.5	1594.4	1574.1	1559.8
6°	1875.3	1865.6	1840.9	1802.5	1757.7	1710.3	1658.5	1621.0	1590.3	1567.0	1550.3
7°	1929.9	1918.0	1887.2	1840.5	1784.1	1727.1	1667.2	1623.2	1587.7	1561.5	1543.0
8°	1989.8	1974.7	1937.6	1880.5	1812.7	1746.2	1677.4	1627.1	1586.8	1556.9	1537.0
9°	2054.3	2037.8	1991.7	1923.8	1845.0	1766.1	1688.7	1631.7	1587.5	1554.3	1532.5
10°	2124.1	2102.8	2050.1	1971.0	1879.7	1788.0	1701.7	1638.2	1589.4	1553.7	1529.4
11°	2200.1	2176.0	2113.1	2021.9	1916.0	1811.7	1715.6	1646.2	1592.5	1554.4	1528.1
12°	2281.9	2252.2	2179.8	2074.5	1953.3	1837.6	1730.9	1654.6	1596.9	1556.0	1529.0
13°	2368.6	2335.7	2252.3	2130.9	1993.8	1865.0	1746.9	1664.1	1602.0	1559.1	1530.9
14°	2464.6	2426.0	2329.7	2191.2	2036.7	1892.4	1763.2	1673.5	1607.6	1563.0	1533.2
15°	2566.7	2522.8	2411.4	2254.7	2080.8	1920.9	1780.6	1683.6	1614.3	1567.7	1536.6
16°	2672.0	2621.4	2496.6	2322.8	2128.4	1951.3	1799.4	1695.2	1621.4	1572.9	1541.0
17°	2777.0	2721.3	2581.5	2392.6	2177.9	1982.9	1818.9	1706.8	1629.6	1578.5	1546.0
18°	2880.6	2818.8	2666.8	2463.0	2229.7	2015.1	1839.3	1720.0	1638.4	1585.5	1550.7
19°	2977.9	2912.5	2750.9	2531.2	2283.2	2048.7	1860.5	1733.8	1647.3	1592.8	1556.6
20°	3067.4	3000.9	2830.6	2599.2	2337.7	2083.8	1882.8	1748.4	1657.0	1600.5	1563.4
21°	3148.2	3082.9	2907.9	2665.3	2391.5	2120.3	1905.5	1763.7	1667.1	1608.0	1570.7
22°	3217.8	3153.1	2980.3	2729.6	2445.7	2157.7	1929.3	1779.5	1678.7	1616.7	1578.8
23°	3280.9	3220.6	3047.6	2791.2	2499.4	2196.9	1954.0	1795.8	1691.4	1626.0	1587.8
24°	3336.3	3278.9	3110.1	2849.1	2552.0	2237.1	1979.1	1812.9	1704.4	1636.6	1597.6
25°	3383.9	3330.9	3168.0	2905.7	2603.5	2277.9	2005.6	1830.6	1717.8	1647.9	1607.4
26°	3425.0	3376.9	3222.1	2958.7	2653.1	2318.2	2032.5	1849.0	1731.7	1659.6	1618.3
27°	3461.9	3416.0	3270.0	3009.6	2701.3	2359.5	2059.5	1867.5	1745.8	1672.0	1629.7
28°	3493.1	3449.4	3313.2	3058.4	2746.9	2400.3	2087.6	1885.6	1760.8	1685.4	1641.7
29°	3518.9	3478.5	3352.8	3104.7	2790.1	2441.0	2116.2	1904.5	1775.4	1700.0	1654.3
30°	3539.3	3501.8	3388.1	3149.4	2833.0	2480.4	2145.8	1923.8	1791.2	1714.4	1667.3
31°	3556.0	3520.5	3419.1	3190.6	2872.7	2519.5	2175.4	1942.6	1807.6	1729.1	1680.9
32°	3568.1	3535.7	3446.4	3229.0	2910.9	2558.0	2205.3	1962.4	1823.9	1744.4	1695.5
33°	3577.4	3546.8	3470.3	3265.5	2947.6	2595.4	2235.0	1983.0	1841.0	1759.6	1710.7
34°	3581.5	3553.3	3489.3	3298.2	2982.6	2631.8	2265.1	2002.5	1858.3	1775.3	1726.2
35°	3583.5	3556.5	3505.4	3328.4	3017.1	2667.1	2295.0	2022.4	1876.0	1791.6	1742.8
36°	3582.4	3557.4	3518.1	3356.3	3048.8	2701.2	2324.8	2042.4	1894.1	1808.1	1759.9
37°	3577.4	3554.6	3527.1	3381.6	3079.7	2734.1	2354.0	2063.0	1912.4	1825.4	1777.6
38°	3570.1	3549.5	3533.1	3404.3	3109.3	2766.4	2384.1	2084.1	1930.6	1843.4	1795.5
39°	3560.9	3543.3	3535.3	3423.5	3137.8	2798.1	2414.2	2105.1	1949.3	1861.5	1813.3
40°	3548.9	3534.2	3535.2	3441.0	3164.7	2828.8	2444.8	2127.5	1968.5	1880.0	1831.3
41°	3532.3	3522.0	3531.3	3455.7	3189.7	2858.2	2473.9	2150.9	1988.3	1898.8	1849.7
42°	3514.1	3506.8	3524.9	3468.3	3214.5	2887.2	2502.1	2174.5	2008.2	1918.4	1868.4
43°	3491.8	3490.1	3516.1	3477.7	3237.0	2916.0	2529.8	2197.4	2028.1	1938.9	1887.3
44°	3465.8	3470.9	3504.1	3483.1	3258.3	2943.5	2555.2	2221.4	2048.7	1959.2	1907.0

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CATALOG NUMBER: XAS180-SFPM (4000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3435.6	3447.0	3487.7	3487.1	3279.1	2971.0	2581.4	2246.6	2070.6	1980.0	1926.8
46°	3400.1	3421.8	3471.0	3487.8	3298.7	2998.1	2606.7	2272.7	2093.2	2001.3	1947.2
47°	3362.0	3390.8	3450.5	3485.4	3317.8	3025.7	2631.4	2299.0	2116.2	2022.8	1968.4
48°	3321.2	3357.0	3426.7	3479.0	3334.8	3050.8	2654.4	2325.7	2140.0	2044.7	1989.9
49°	3274.7	3318.7	3400.7	3471.5	3349.6	3075.1	2676.6	2352.6	2164.7	2067.9	2011.9
50°	3224.6	3275.6	3369.3	3459.1	3362.8	3099.1	2697.9	2379.3	2189.4	2091.3	2035.0
51°	3168.1	3228.4	3334.9	3444.1	3374.2	3121.0	2719.4	2406.3	2215.4	2116.4	2058.1
52°	3108.1	3175.0	3295.5	3424.5	3383.2	3141.1	2739.5	2434.5	2242.0	2142.4	2083.2
53°	3044.2	3118.0	3253.7	3401.0	3389.9	3159.5	2758.5	2461.1	2269.0	2168.3	2107.1
54°	2978.1	3055.2	3207.0	3375.1	3392.4	3175.6	2776.6	2487.1	2297.7	2195.2	2132.8
55°	2908.4	2988.2	3155.2	3344.4	3391.0	3188.7	2792.5	2510.5	2326.6	2223.5	2159.1
56°	2834.2	2920.0	3099.0	3309.8	3386.5	3198.6	2806.8	2533.2	2355.6	2252.6	2186.1
57°	2762.1	2848.5	3041.7	3272.2	3376.2	3204.9	2819.6	2553.9	2384.7	2283.2	2213.8
58°	2685.7	2775.9	2980.4	3230.5	3360.7	3206.0	2828.2	2572.6	2414.0	2315.1	2240.0
59°	2610.4	2702.0	2918.8	3184.1	3340.0	3201.6	2833.2	2589.5	2443.4	2348.6	2265.7
60°	2529.3	2627.5	2854.0	3134.2	3313.6	3191.6	2835.7	2603.8	2472.8	2382.6	2291.2
61°	2445.3	2549.2	2789.3	3082.6	3281.2	3176.9	2832.9	2615.4	2502.2	2417.0	2316.9
62°	2357.4	2469.4	2725.1	3026.8	3244.6	3154.5	2824.9	2623.5	2530.6	2451.2	2342.1
63°	2270.8	2389.0	2661.6	2968.6	3203.8	3123.6	2810.2	2628.1	2558.5	2484.7	2366.5
64°	2189.3	2311.0	2598.5	2909.6	3155.7	3084.7	2788.4	2629.2	2585.8	2518.3	2389.8
65°	2123.5	2239.7	2537.2	2849.1	3103.8	3038.4	2761.1	2624.8	2611.9	2552.4	2411.8
66°	2075.1	2181.1	2478.2	2788.9	3045.1	2982.8	2723.9	2613.9	2634.7	2589.9	2431.8
67°	2047.7	2138.2	2424.9	2729.7	2978.5	2920.3	2676.0	2595.9	2653.8	2625.2	2450.4
68°	2019.2	2108.9	2378.3	2671.0	2904.6	2846.8	2592.1	2564.5	2668.0	2658.6	2449.6
69°	1954.1	2080.4	2340.5	2612.7	2822.3	2750.3	2457.6	2502.2	2673.3	2688.5	2439.6
70°	1825.7	2028.0	2310.6	2553.8	2736.0	2615.3	2271.3	2398.6	2669.9	2712.9	2441.3
71°	1631.0	1924.3	2283.6	2497.9	2633.0	2440.0	2044.2	2248.8	2644.6	2728.3	2427.2
72°	1420.7	1755.4	2251.4	2440.0	2507.0	2232.1	1829.5	2075.3	2583.1	2722.1	2398.5
73°	1203.7	1536.9	2200.4	2378.0	2360.6	2019.7	1649.0	1903.3	2486.1	2689.0	2359.3
74°	953.3	1301.5	2100.9	2303.5	2196.2	1813.0	1433.8	1740.1	2361.3	2627.4	2282.1
75°	639.4	1047.6	1925.8	2195.4	2009.6	1585.4	1090.4	1548.8	2221.1	2531.5	2166.5
76°	348.0	743.4	1689.7	2037.9	1815.0	1274.5	747.0	1199.0	2082.6	2375.9	2009.7
77°	227.6	414.9	1436.3	1812.7	1602.5	863.8	406.4	849.2	1926.1	2147.9	1824.1
78°	108.2	305.6	1131.8	1501.9	1333.4	473.5	197.2	501.4	1693.7	1837.7	1596.1
79°	86.2	198.2	746.4	1138.0	987.0	351.4	122.9	244.4	1283.8	1499.0	1339.8
80°	74.3	90.8	394.7	750.7	604.6	236.9	106.3	136.0	873.9	1196.5	1101.5
81°	63.9	76.7	252.1	393.0	431.7	122.4	89.7	113.9	465.4	946.0	999.2
82°	54.6	65.3	112.4	253.1	265.8	103.3	73.2	91.7	223.5	697.2	844.9
83°	46.0	54.7	90.2	114.8	99.9	85.0	61.6	69.6	147.0	522.2	690.5
84°	38.1	45.0	73.1	90.0	80.2	65.8	50.7	56.2	118.0	367.5	534.6
85°	30.3	36.9	55.9	74.2	61.7	50.6	40.2	44.8	96.6	237.0	330.5
86°	22.5	28.8	41.9	59.5	45.4	39.8	30.3	34.8	75.3	170.3	233.5
87°	15.4	20.7	30.3	43.4	33.5	29.1	21.1	25.8	55.0	103.5	136.5
88°	8.9	13.5	18.8	34.8	21.6	18.4	14.7	19.7	36.3	38.3	40.6
89°	3.8	5.9	7.8	26.5	9.8	9.2	8.2	13.6	24.7	25.9	27.5

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CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010
CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
1°	1618.7	1618.5	1619.8	1624.1	1628.4	1634.4	1640.9	1642.3	1648.6	1655.5	1661.0
2°	1598.1	1597.3	1600.4	1606.5	1614.9	1625.1	1637.9	1645.6	1659.6	1673.2	1684.8
3°	1580.2	1579.1	1583.0	1591.2	1603.1	1618.5	1636.6	1651.1	1671.7	1693.0	1711.9
4°	1565.3	1564.0	1568.6	1578.7	1593.9	1613.4	1636.9	1657.8	1685.9	1714.9	1741.5
5°	1552.7	1550.7	1556.4	1568.5	1586.2	1610.1	1638.5	1666.0	1702.4	1739.4	1773.2
6°	1542.1	1539.8	1546.3	1559.8	1580.9	1608.3	1641.6	1676.0	1719.9	1766.0	1809.6
7°	1532.9	1530.9	1537.6	1552.9	1576.5	1608.2	1646.9	1687.9	1739.8	1795.7	1849.1
8°	1526.3	1523.8	1531.4	1548.2	1574.0	1609.4	1653.3	1700.5	1761.1	1828.0	1891.7
9°	1520.7	1518.2	1526.4	1545.0	1573.0	1611.9	1660.7	1714.5	1784.4	1862.5	1937.2
10°	1517.1	1514.3	1523.4	1543.3	1573.5	1615.2	1669.0	1730.0	1809.1	1899.1	1986.5
11°	1515.4	1512.3	1522.1	1543.7	1576.0	1620.1	1679.2	1747.4	1836.9	1938.4	2040.0
12°	1514.8	1511.9	1522.2	1545.5	1579.6	1626.6	1690.5	1765.5	1865.3	1980.4	2095.5
13°	1516.1	1512.5	1523.3	1548.3	1584.3	1633.9	1702.8	1785.0	1895.3	2024.7	2156.2
14°	1517.6	1514.5	1526.1	1552.3	1590.6	1642.2	1715.6	1805.0	1926.7	2071.2	2219.9
15°	1520.4	1517.0	1529.6	1557.2	1597.9	1651.9	1729.0	1825.8	1959.1	2120.5	2288.7
16°	1523.7	1520.3	1533.4	1562.2	1605.2	1662.3	1743.3	1848.0	1993.2	2172.8	2360.5
17°	1527.5	1524.1	1538.1	1568.3	1613.7	1673.5	1758.7	1871.1	2029.1	2227.2	2433.8
18°	1532.2	1528.6	1543.8	1574.6	1622.7	1684.6	1774.1	1894.6	2065.2	2284.0	2508.5
19°	1537.4	1534.2	1549.5	1581.9	1631.6	1697.0	1790.7	1918.8	2102.8	2342.0	2582.3
20°	1544.1	1540.6	1556.6	1590.0	1641.2	1709.4	1807.8	1944.1	2143.1	2400.4	2652.9
21°	1551.4	1548.3	1564.4	1598.8	1650.8	1722.6	1826.2	1970.4	2183.0	2461.2	2721.7
22°	1559.4	1556.2	1573.2	1608.5	1661.5	1736.5	1844.8	1997.5	2226.2	2519.8	2787.6
23°	1568.3	1565.6	1582.9	1618.8	1673.1	1751.0	1863.5	2025.4	2270.9	2577.8	2850.3
24°	1577.8	1576.2	1593.4	1630.1	1685.1	1765.5	1882.7	2054.1	2315.0	2633.0	2908.7
25°	1588.3	1586.9	1604.8	1641.9	1698.3	1780.8	1902.8	2082.5	2359.9	2687.1	2964.4
26°	1599.7	1599.1	1616.9	1654.0	1711.8	1796.2	1922.8	2112.3	2405.3	2737.4	3018.2
27°	1611.3	1612.0	1629.6	1666.6	1725.8	1811.3	1943.2	2142.4	2450.9	2786.0	3068.1
28°	1623.5	1626.7	1642.8	1680.3	1740.4	1827.8	1963.7	2174.1	2496.0	2832.8	3116.5
29°	1636.9	1641.9	1656.8	1694.1	1755.6	1844.2	1984.7	2204.7	2539.5	2877.0	3162.7
30°	1651.2	1658.5	1672.0	1708.3	1770.2	1861.2	2005.4	2236.1	2583.0	2918.8	3205.7
31°	1666.2	1675.2	1687.7	1722.9	1786.0	1878.3	2025.9	2267.5	2624.4	2958.1	3246.1
32°	1681.8	1693.2	1703.6	1738.9	1802.4	1896.1	2047.1	2299.3	2664.1	2995.6	3284.2
33°	1698.2	1711.4	1719.9	1754.6	1818.8	1913.8	2068.0	2331.3	2703.1	3032.8	3320.6
34°	1714.4	1729.7	1736.1	1771.1	1835.9	1931.9	2089.1	2363.3	2739.1	3067.4	3354.4
35°	1730.7	1748.6	1752.4	1788.3	1853.0	1950.6	2110.3	2395.5	2775.1	3101.9	3384.5
36°	1747.5	1767.7	1768.7	1805.8	1870.3	1969.3	2132.9	2428.4	2809.9	3132.9	3412.5
37°	1763.0	1786.4	1785.5	1823.3	1888.1	1988.8	2155.5	2460.0	2842.8	3163.6	3437.7
38°	1780.2	1806.1	1803.0	1842.1	1906.3	2007.7	2178.9	2492.2	2875.7	3192.6	3461.2
39°	1797.3	1825.2	1820.6	1860.5	1924.9	2028.2	2202.3	2523.0	2906.1	3220.1	3481.0
40°	1815.0	1843.7	1838.9	1879.4	1944.3	2047.9	2226.2	2553.2	2935.5	3246.3	3498.4
41°	1833.4	1861.3	1857.2	1898.7	1964.1	2068.2	2250.2	2583.1	2963.6	3270.9	3511.3
42°	1851.6	1879.0	1876.2	1917.6	1984.9	2089.7	2274.8	2611.4	2992.3	3295.4	3521.5
43°	1870.1	1896.1	1895.9	1938.4	2005.2	2111.7	2300.9	2639.3	3020.2	3317.2	3530.1
44°	1889.6	1914.0	1916.1	1958.9	2026.4	2135.1	2327.0	2666.7	3047.7	3337.0	3534.4

REPORT NUMBER: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1909.7	1931.8	1936.4	1980.1	2048.5	2157.4	2353.6	2693.6	3073.7	3356.3	3536.6
46°	1930.1	1948.5	1957.2	2001.0	2070.5	2181.5	2379.9	2718.3	3098.8	3373.5	3534.8
47°	1951.7	1964.9	1979.2	2022.3	2093.5	2204.7	2406.6	2741.0	3123.0	3389.5	3530.2
48°	1973.5	1982.3	2001.7	2044.2	2116.7	2229.2	2433.3	2763.7	3145.2	3402.7	3522.9
49°	1996.3	2000.5	2024.1	2065.9	2140.2	2254.2	2459.1	2785.0	3166.2	3414.5	3512.3
50°	2019.4	2017.9	2047.7	2088.5	2164.8	2280.4	2484.9	2805.2	3184.4	3425.0	3499.1
51°	2044.2	2036.1	2071.4	2111.6	2188.9	2306.0	2510.2	2823.4	3201.4	3431.9	3481.9
52°	2068.2	2053.7	2095.1	2135.7	2215.4	2331.7	2534.9	2840.2	3215.2	3436.4	3460.3
53°	2090.5	2067.6	2116.7	2159.7	2241.7	2358.1	2557.4	2855.3	3225.7	3437.1	3435.6
54°	2109.7	2077.5	2136.8	2184.9	2269.5	2384.1	2578.8	2866.9	3233.8	3436.3	3407.8
55°	2127.1	2088.0	2154.2	2210.6	2297.2	2410.5	2598.5	2876.7	3238.0	3430.0	3377.5
56°	2145.2	2100.9	2171.3	2237.1	2327.2	2437.3	2615.2	2884.1	3237.6	3420.1	3342.4
57°	2162.3	2114.5	2188.8	2263.1	2356.4	2464.3	2630.9	2888.1	3232.1	3404.4	3303.5
58°	2179.1	2124.3	2205.4	2291.2	2387.3	2490.2	2643.6	2889.8	3221.7	3384.5	3260.0
59°	2192.8	2131.6	2219.0	2317.4	2419.6	2514.9	2653.6	2888.4	3206.4	3359.3	3213.1
60°	2204.6	2140.3	2230.8	2343.8	2452.6	2539.4	2662.2	2882.8	3186.1	3328.9	3161.8
61°	2216.7	2148.6	2243.1	2368.7	2486.2	2564.2	2667.8	2870.8	3161.3	3292.5	3107.4
62°	2228.6	2154.0	2254.8	2394.9	2518.3	2589.3	2669.6	2852.9	3129.9	3250.4	3050.2
63°	2237.8	2158.3	2265.1	2419.7	2549.1	2612.3	2668.1	2829.9	3090.5	3202.6	2990.8
64°	2245.7	2160.1	2274.3	2443.3	2580.1	2633.8	2663.5	2800.3	3045.4	3151.0	2930.8
65°	2246.4	2143.7	2275.0	2465.2	2611.3	2652.8	2651.9	2761.7	2991.6	3092.3	2867.9
66°	2225.1	2129.7	2251.9	2483.5	2641.9	2667.7	2634.7	2713.2	2929.8	3026.9	2804.2
67°	2213.1	2122.6	2239.4	2497.5	2669.2	2679.6	2607.0	2642.2	2860.2	2955.6	2742.2
68°	2208.1	2096.0	2230.7	2491.9	2695.0	2685.9	2555.5	2521.5	2770.3	2878.2	2679.1
69°	2176.4	2020.5	2196.1	2477.9	2716.4	2681.4	2462.4	2344.4	2641.7	2790.3	2616.5
70°	2114.0	1883.3	2134.5	2476.2	2732.7	2662.3	2316.1	2116.1	2470.3	2689.2	2553.6
71°	2014.7	1680.9	2035.7	2458.7	2735.6	2614.3	2132.1	1881.2	2256.4	2567.0	2486.4
72°	1855.7	1492.5	1877.9	2429.6	2716.5	2528.6	1938.3	1673.9	2028.8	2418.5	2416.3
73°	1659.2	1313.7	1675.4	2384.5	2666.4	2404.9	1754.4	1469.9	1809.0	2246.8	2335.8
74°	1466.5	1114.0	1489.4	2303.5	2584.7	2265.4	1566.0	1211.2	1585.7	2051.5	2241.4
75°	1263.9	848.4	1291.7	2179.0	2461.5	2111.3	1312.2	842.1	1316.6	1836.9	2108.0
76°	1020.2	612.8	1046.3	2014.8	2271.5	1947.1	943.7	476.8	948.8	1612.4	1924.6
77°	785.2	558.2	829.3	1825.9	2013.7	1749.0	577.7	349.3	555.0	1365.6	1671.7
78°	738.7	728.0	805.2	1592.1	1697.5	1438.7	285.1	228.7	410.6	1060.1	1336.6
79°	910.3	692.5	969.4	1321.4	1386.8	1000.3	151.7	108.1	272.7	702.1	965.3
80°	1063.8	656.9	828.5	1054.6	1125.7	565.1	126.1	92.1	134.8	396.6	594.0
81°	830.3	618.0	687.6	957.1	864.5	271.4	100.5	78.9	111.8	257.7	429.0
82°	596.7	354.7	544.5	791.3	603.4	160.5	74.9	66.8	95.1	119.6	268.5
83°	340.0	252.2	308.5	625.4	417.5	124.1	62.2	55.8	77.7	91.0	108.1
84°	191.8	149.7	186.3	458.8	253.0	101.8	50.7	45.1	60.6	72.9	85.6
85°	127.3	48.5	149.7	257.3	184.5	79.6	40.4	35.8	46.3	55.1	70.6
86°	63.2	32.8	113.1	206.0	116.0	57.4	31.0	26.6	35.9	40.1	56.3
87°	43.9	17.2	76.5	154.7	48.4	40.5	22.7	17.3	25.6	28.8	39.5
88°	24.6	1.6	39.8	103.4	32.8	27.6	15.6	9.8	15.3	17.5	23.1
89°	5.4	1.0	3.6	52.1	17.3	14.7	8.6	3.7	6.6	7.0	6.7

REPORT NUMBER: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010
CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1642.5	1642.5	1642.5
1°	1665.7	1669.0	1670.4
2°	1694.9	1701.4	1702.7
3°	1726.6	1736.1	1739.1
4°	1762.0	1776.2	1779.5
5°	1801.8	1820.2	1825.1
6°	1845.9	1868.7	1875.3
7°	1892.9	1922.2	1929.9
8°	1943.9	1979.4	1989.8
9°	2000.2	2040.8	2054.3
10°	2059.9	2108.8	2124.1
11°	2125.0	2183.7	2200.1
12°	2195.6	2261.8	2281.9
13°	2271.3	2346.7	2368.6
14°	2351.4	2438.3	2464.6
15°	2435.2	2533.2	2566.7
16°	2521.1	2632.1	2672.0
17°	2610.1	2733.0	2777.0
18°	2697.3	2833.2	2880.6
19°	2782.2	2928.0	2977.9
20°	2864.2	3018.2	3067.4
21°	2940.8	3099.8	3148.2
22°	3012.7	3172.8	3217.8
23°	3081.2	3237.8	3280.9
24°	3144.7	3296.1	3336.3
25°	3204.5	3346.4	3383.9
26°	3258.0	3391.2	3425.0
27°	3307.9	3429.1	3461.9
28°	3352.0	3462.1	3493.1
29°	3391.9	3490.0	3518.9
30°	3425.9	3513.8	3539.3
31°	3457.0	3531.9	3556.0
32°	3483.4	3547.3	3568.1
33°	3505.9	3557.9	3577.4
34°	3524.2	3565.0	3581.5
35°	3539.7	3567.8	3583.5
36°	3551.5	3567.6	3582.4
37°	3558.9	3565.2	3577.4
38°	3563.8	3559.7	3570.1
39°	3565.4	3552.4	3560.9
40°	3564.3	3542.6	3548.9
41°	3559.8	3530.6	3532.3
42°	3552.7	3516.2	3514.1
43°	3542.7	3500.2	3491.8
44°	3529.4	3480.4	3465.8

REPORT NUMBER: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3514.4	3458.2	3435.6
46°	3496.1	3432.1	3400.1
47°	3475.4	3402.2	3362.0
48°	3451.9	3369.3	3321.2
49°	3425.4	3331.1	3274.7
50°	3395.2	3290.4	3224.6
51°	3360.5	3244.7	3168.1
52°	3321.6	3192.4	3108.1
53°	3278.2	3136.7	3044.2
54°	3232.6	3076.9	2978.1
55°	3183.0	3011.4	2908.4
56°	3128.4	2943.7	2834.2
57°	3070.6	2873.4	2762.1
58°	3009.0	2799.6	2685.7
59°	2946.9	2725.8	2610.4
60°	2884.0	2650.1	2529.3
61°	2818.7	2572.1	2445.3
62°	2755.3	2493.1	2357.4
63°	2692.4	2413.4	2270.8
64°	2631.6	2339.7	2189.3
65°	2573.3	2269.6	2123.5
66°	2518.1	2212.3	2075.1
67°	2465.6	2170.2	2047.7
68°	2418.4	2141.2	2019.2
69°	2377.3	2111.2	1954.1
70°	2346.0	2061.1	1825.7
71°	2313.7	1964.8	1631.0
72°	2272.7	1795.1	1420.7
73°	2209.4	1573.0	1203.7
74°	2094.4	1326.7	953.3
75°	1913.0	1067.8	639.4
76°	1676.1	772.6	348.0
77°	1411.1	443.9	227.6
78°	1079.5	327.7	108.2
79°	692.3	211.6	86.2
80°	369.3	95.6	74.3
81°	242.1	79.1	63.9
82°	116.6	67.2	54.6
83°	90.0	56.4	46.0
84°	72.3	46.6	38.1
85°	54.9	38.1	30.3
86°	40.8	29.7	22.5
87°	29.2	21.2	15.4
88°	17.6	13.5	8.9
89°	6.9	5.7	3.8

REPORT NUMBER: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-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: P1445010

CATALOG NUMBER: XAS180-SFPM (4000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)