

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: P1436769

Luminaire Tested: XAS180-SFPM (5000K-72W-T5)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436769
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-72W-T5)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 5
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

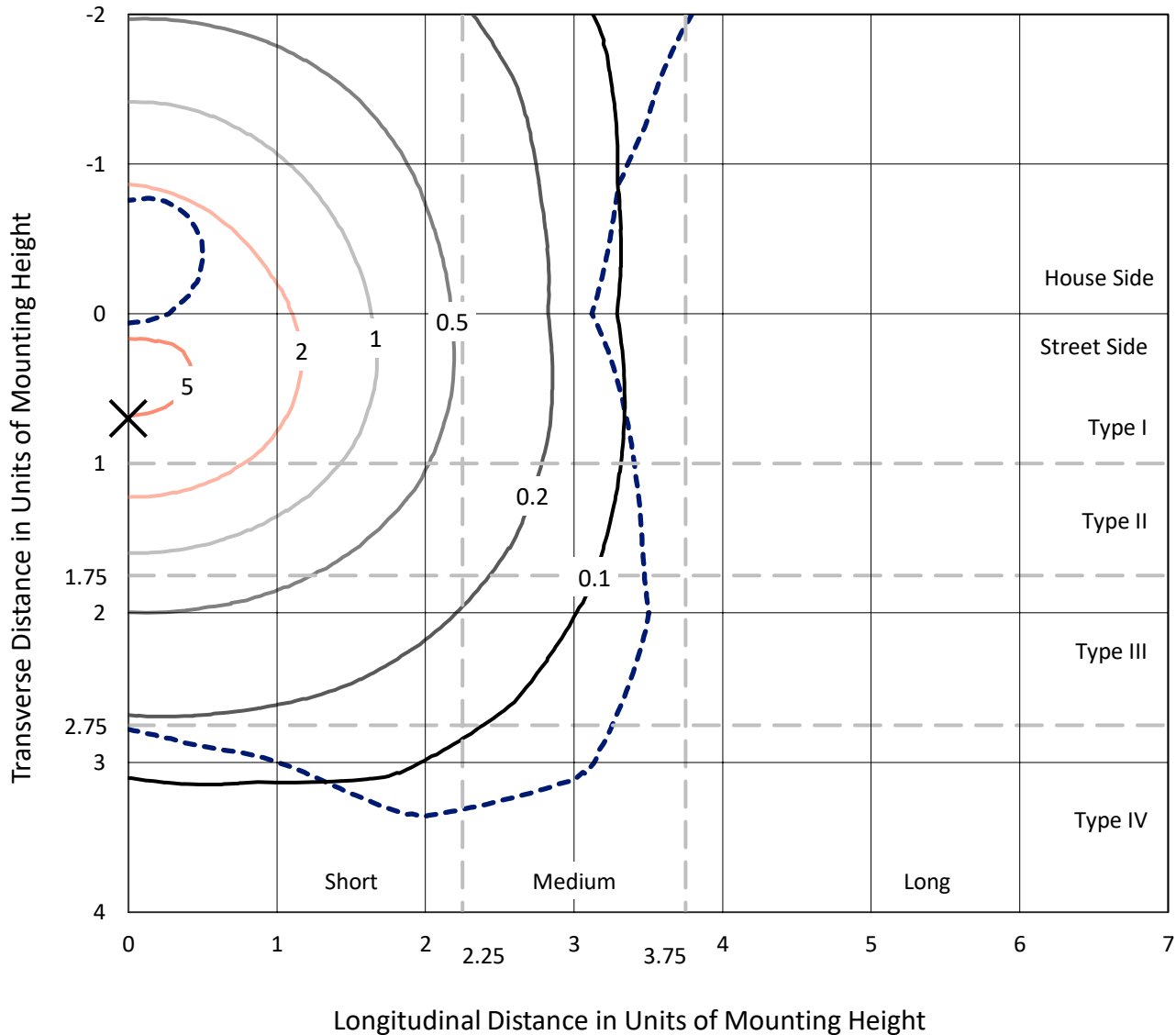
Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 12218.7 lumens
Efficiency: 42.7%
Efficacy: 167.2 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.1
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

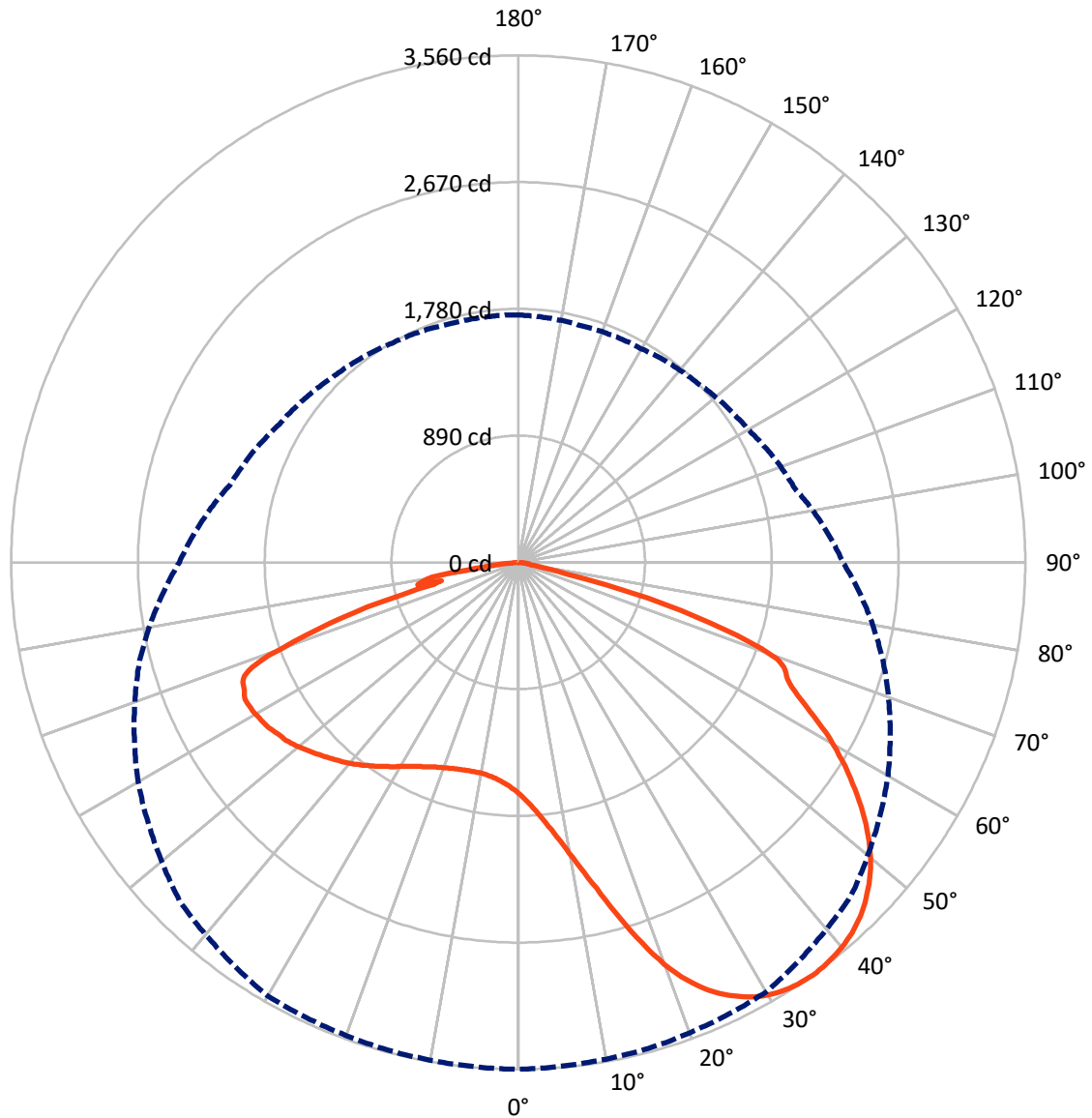
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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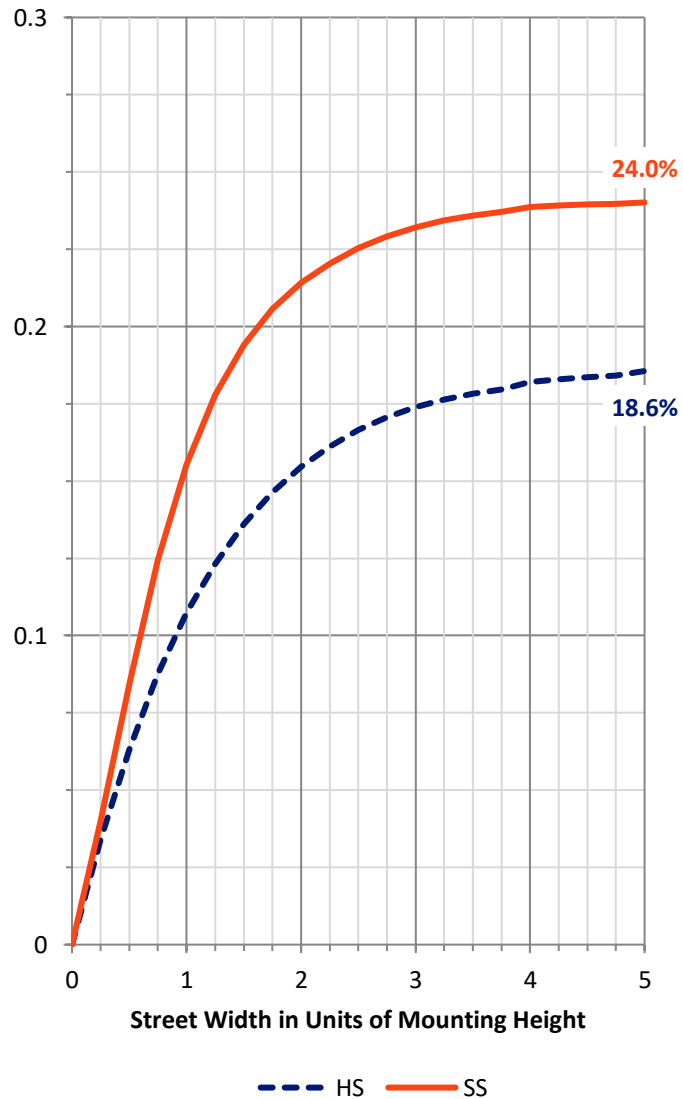
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5349.2	0.0	5349.2
	% Lamp	18.7	0.0	18.7
Street Side	Lumens	6869.5	0.0	6869.5
	% Lamp	24.0	0.0	24.0
Total	Lumens	12218.7	0.0	12218.7
	% Lamp	42.7	0.0	42.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	161.9	1.3	0.6
10°-20°	549.4	4.5	1.9
20°-30°	1054.5	8.6	3.7
30°-40°	1588.5	13.0	5.5
40°-50°	2077.4	17.0	7.3
50°-60°	2443.1	20.0	8.5
60°-70°	2549.0	20.9	8.9
70°-80°	1631.9	13.4	5.7
80°-90°	162.9	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°	12218.7	100.0	42.7
0°-180°	12218.7	100.0	42.7

Coefficient of Utilization



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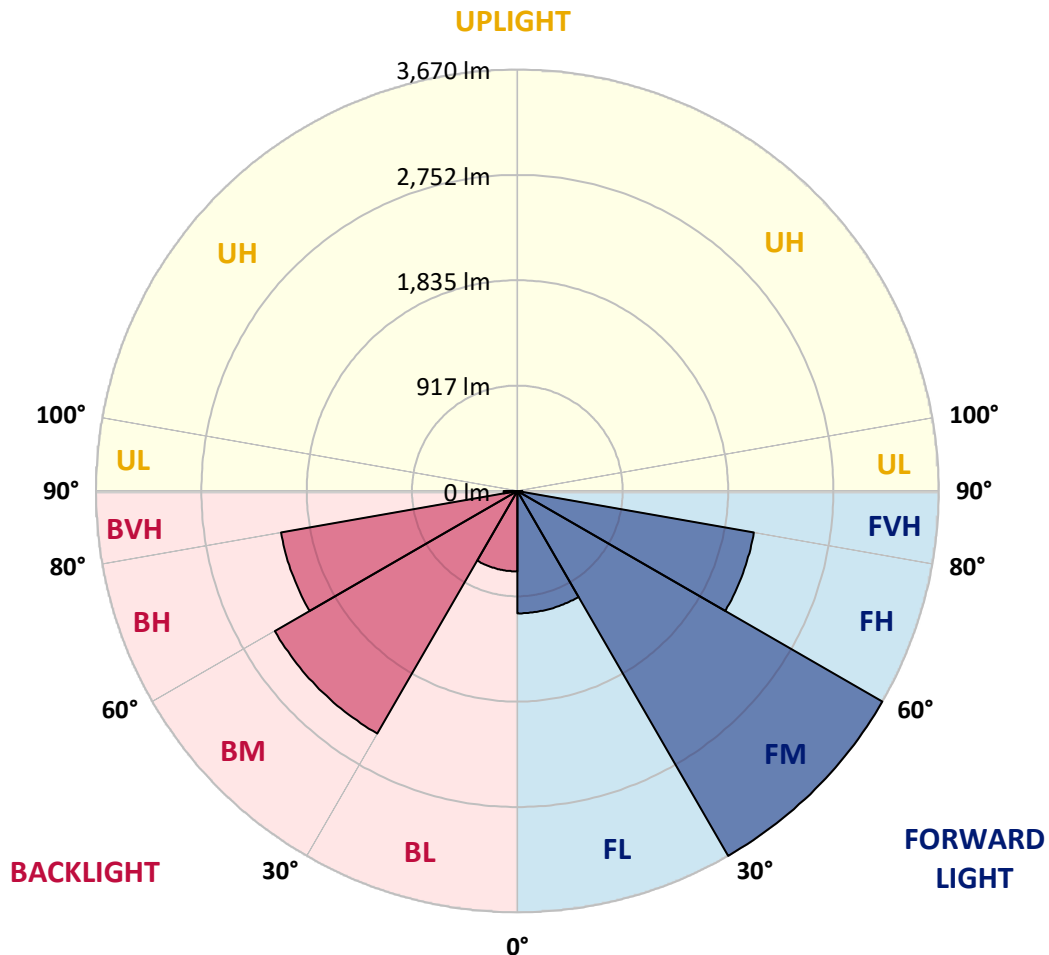
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.6	3.7			
FM (30°-60°)	3670.0	12.8			
FH (60°-80°)	2091.1	7.3			G2/5000
FVH (80°-90°)	42.9	0.1			G1/100
BL (0°-30°)	700.2	2.4	B2/1000		
BM (30°-60°)	2439.1	8.5	B2/2500		
BH (60°-80°)	2089.9	7.3	B3/2500		G3/2500
BVH (80°-90°)	120.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	16409.3	57.3			

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°	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9
1°	1659.6	1659.1	1656.9	1652.9	1647.4	1641.6	1629.0	1622.3	1617.0	1612.5	1609.6
2°	1691.6	1690.1	1684.5	1674.9	1662.3	1649.0	1629.5	1616.9	1605.9	1596.8	1591.0
3°	1727.8	1724.9	1714.8	1699.4	1680.3	1659.2	1632.3	1613.3	1596.8	1583.8	1574.6
4°	1768.0	1763.0	1748.6	1726.9	1700.1	1670.9	1636.2	1611.1	1589.6	1573.0	1561.2
5°	1813.2	1806.4	1786.7	1757.0	1722.2	1684.6	1641.5	1610.0	1584.0	1563.9	1549.7
6°	1863.1	1853.5	1828.9	1790.8	1746.3	1699.2	1647.8	1610.5	1580.0	1556.9	1540.2
7°	1917.4	1905.6	1875.0	1828.6	1772.6	1715.9	1656.4	1612.6	1577.4	1551.4	1533.0
8°	1976.9	1961.9	1925.0	1868.3	1801.0	1734.9	1666.5	1616.6	1576.5	1546.8	1527.1
9°	2041.0	2024.6	1978.8	1911.3	1833.0	1754.7	1677.8	1621.1	1577.3	1544.2	1522.5
10°	2110.4	2089.2	2036.8	1958.3	1867.5	1776.4	1690.7	1627.6	1579.1	1543.6	1519.5
11°	2185.8	2161.9	2099.4	2008.8	1903.5	1800.0	1704.5	1635.5	1582.2	1544.3	1518.2
12°	2267.1	2237.6	2165.7	2061.0	1940.7	1825.7	1719.7	1643.9	1586.5	1545.9	1519.1
13°	2353.3	2320.5	2237.7	2117.1	1980.9	1852.9	1735.6	1653.3	1591.6	1549.0	1521.0
14°	2448.6	2410.3	2314.6	2177.0	2023.5	1880.1	1751.8	1662.6	1597.2	1552.8	1523.2
15°	2550.1	2506.5	2395.7	2240.0	2067.4	1908.5	1769.1	1672.7	1603.8	1557.5	1526.6
16°	2654.7	2604.4	2480.4	2307.7	2114.6	1938.7	1787.8	1684.2	1610.8	1562.7	1531.0
17°	2759.0	2703.6	2564.8	2377.1	2163.8	1970.0	1807.1	1695.7	1619.0	1568.3	1535.9
18°	2861.9	2800.6	2649.5	2447.0	2215.2	2002.0	1827.4	1708.9	1627.7	1575.2	1540.6
19°	2958.6	2893.6	2733.0	2514.8	2268.4	2035.4	1848.4	1722.5	1636.6	1582.5	1546.5
20°	3047.6	2981.5	2812.2	2582.4	2322.5	2070.3	1870.6	1737.1	1646.2	1590.1	1553.2
21°	3127.8	3063.0	2889.0	2648.0	2376.0	2106.5	1893.2	1752.2	1656.3	1597.5	1560.5
22°	3196.9	3132.7	2961.0	2711.9	2429.9	2143.7	1916.8	1768.0	1667.9	1606.2	1568.6
23°	3259.6	3199.8	3027.9	2773.1	2483.2	2182.6	1941.3	1784.1	1680.5	1615.5	1577.6
24°	3314.7	3257.6	3089.9	2830.6	2535.4	2222.6	1966.2	1801.2	1693.3	1626.0	1587.2
25°	3362.0	3309.3	3147.4	2886.9	2586.6	2263.1	1992.6	1818.7	1706.6	1637.3	1597.0
26°	3402.8	3355.0	3201.2	2939.5	2635.9	2303.2	2019.3	1837.0	1720.5	1648.8	1607.9
27°	3439.5	3393.9	3248.8	2990.1	2683.8	2344.2	2046.2	1855.4	1734.5	1661.1	1619.1
28°	3470.4	3427.0	3291.8	3038.6	2729.1	2384.7	2074.1	1873.3	1749.4	1674.5	1631.0
29°	3496.1	3456.0	3331.0	3084.6	2772.1	2425.2	2102.5	1892.2	1763.9	1689.0	1643.5
30°	3516.4	3479.1	3366.2	3129.0	2814.6	2464.3	2131.9	1911.3	1779.6	1703.3	1656.5
31°	3533.0	3497.7	3396.9	3169.9	2854.1	2503.2	2161.3	1930.1	1795.9	1717.9	1670.0
32°	3545.0	3512.8	3424.0	3208.0	2892.0	2541.4	2191.0	1949.7	1812.0	1733.1	1684.6
33°	3554.2	3523.8	3447.8	3244.3	2928.5	2578.5	2220.5	1970.1	1829.1	1748.2	1699.6
34°	3558.3	3530.3	3466.7	3276.8	2963.2	2614.8	2250.4	1989.5	1846.3	1763.8	1715.0
35°	3560.2	3533.4	3482.6	3306.8	2997.5	2649.8	2280.1	2009.3	1863.9	1779.9	1731.5
36°	3559.2	3534.3	3495.3	3334.5	3029.0	2683.7	2309.7	2029.1	1881.8	1796.4	1748.5
37°	3554.3	3531.6	3504.2	3359.6	3059.7	2716.4	2338.7	2049.6	1900.0	1813.5	1766.1
38°	3546.9	3526.5	3510.2	3382.2	3089.1	2748.5	2368.6	2070.6	1918.1	1831.5	1783.9
39°	3537.9	3520.3	3512.3	3401.3	3117.5	2780.0	2398.6	2091.4	1936.6	1849.4	1801.5
40°	3525.9	3511.3	3512.3	3418.7	3144.2	2810.4	2429.0	2113.7	1955.7	1867.8	1819.4
41°	3509.4	3499.2	3508.4	3433.3	3169.0	2839.7	2457.8	2137.0	1975.4	1886.5	1837.7
42°	3491.3	3484.1	3502.0	3445.9	3193.7	2868.5	2485.8	2160.4	1995.2	1905.9	1856.3
43°	3469.2	3467.5	3493.3	3455.1	3216.0	2897.1	2513.5	2183.1	2015.0	1926.3	1875.1
44°	3443.3	3448.4	3481.4	3460.5	3237.1	2924.4	2538.7	2207.0	2035.4	1946.5	1894.6



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3413.3	3424.7	3465.1	3464.5	3257.8	2951.7	2564.6	2232.0	2057.2	1967.1	1914.3
46°	3378.1	3399.6	3448.5	3465.2	3277.3	2978.7	2589.9	2258.0	2079.6	1988.4	1934.6
47°	3340.2	3368.8	3428.1	3462.8	3296.3	3006.1	2614.3	2284.1	2102.4	2009.7	1955.7
48°	3299.6	3335.3	3404.5	3456.4	3313.2	3031.0	2637.2	2310.6	2126.2	2031.5	1977.0
49°	3253.5	3297.2	3378.7	3449.0	3327.9	3055.2	2659.2	2337.4	2150.6	2054.5	1998.8
50°	3203.7	3254.3	3347.5	3436.6	3341.0	3079.0	2680.4	2363.9	2175.2	2077.7	2021.8
51°	3147.6	3207.5	3313.3	3421.8	3352.3	3100.8	2701.8	2390.7	2201.0	2102.7	2044.7
52°	3088.0	3154.4	3274.2	3402.3	3361.3	3120.8	2721.8	2418.7	2227.5	2128.6	2069.7
53°	3024.5	3097.8	3232.6	3379.0	3367.9	3139.0	2740.6	2445.2	2254.3	2154.3	2093.4
54°	2958.8	3035.4	3186.2	3353.2	3370.4	3155.0	2758.7	2471.0	2282.8	2180.9	2119.0
55°	2889.6	2968.8	3134.8	3322.8	3369.0	3168.0	2774.4	2494.2	2311.5	2209.1	2145.1
56°	2815.8	2901.1	3078.9	3288.3	3364.6	3177.9	2788.6	2516.7	2340.3	2238.0	2171.9
57°	2744.2	2830.1	3022.0	3251.0	3354.3	3184.2	2801.3	2537.3	2369.3	2268.4	2199.5
58°	2668.3	2757.9	2961.0	3209.6	3338.9	3185.2	2809.8	2556.0	2398.4	2300.1	2225.4
59°	2593.4	2684.5	2899.9	3163.5	3318.3	3180.8	2814.9	2572.7	2427.5	2333.4	2251.1
60°	2512.9	2610.5	2835.5	3113.9	3292.2	3170.9	2817.3	2586.9	2456.7	2367.1	2276.4
61°	2429.5	2532.7	2771.2	3062.6	3259.9	3156.3	2814.5	2598.4	2486.0	2401.4	2301.9
62°	2342.1	2453.4	2707.4	3007.2	3223.6	3134.0	2806.6	2606.5	2514.2	2435.3	2326.9
63°	2256.1	2373.5	2644.3	2949.4	3183.0	3103.4	2791.9	2611.1	2541.9	2468.6	2351.1
64°	2175.1	2296.0	2581.7	2890.7	3135.3	3064.7	2770.3	2612.1	2569.0	2502.0	2374.3
65°	2109.7	2225.2	2520.8	2830.6	3083.7	3018.7	2743.2	2607.8	2595.0	2535.8	2396.2
66°	2061.7	2166.9	2462.2	2770.8	3025.4	2963.4	2706.2	2597.0	2617.6	2573.1	2416.1
67°	2034.5	2124.3	2409.1	2712.0	2959.2	2901.3	2658.7	2579.1	2636.6	2608.2	2434.5
68°	2006.2	2095.2	2362.9	2653.7	2885.8	2828.4	2575.3	2547.9	2650.7	2641.3	2433.8
69°	1941.4	2066.9	2325.3	2595.7	2804.0	2732.4	2441.7	2486.0	2656.0	2671.1	2423.8
70°	1813.8	2014.8	2295.6	2537.2	2718.3	2598.3	2256.6	2383.0	2652.5	2695.3	2425.5
71°	1620.4	1911.8	2268.8	2481.7	2616.0	2424.2	2031.0	2234.2	2627.5	2710.6	2411.5
72°	1411.5	1744.1	2236.8	2424.2	2490.8	2217.6	1817.7	2061.9	2566.4	2704.5	2383.0
73°	1195.9	1526.9	2186.1	2362.6	2345.3	2006.6	1638.3	1891.0	2470.0	2671.5	2344.1
74°	947.1	1293.0	2087.3	2288.5	2182.0	1801.2	1424.5	1728.8	2346.0	2610.4	2267.4
75°	635.2	1040.8	1913.3	2181.1	1996.6	1575.1	1083.3	1538.8	2206.7	2515.1	2152.4
76°	345.7	738.5	1678.8	2024.7	1803.2	1266.2	742.1	1191.3	2069.1	2360.5	1996.6
77°	226.1	412.2	1427.0	1801.0	1592.2	858.2	403.7	843.7	1913.6	2133.9	1812.3
78°	107.5	303.6	1124.5	1492.2	1324.8	470.4	196.0	498.2	1682.8	1825.7	1585.8
79°	85.6	196.9	741.5	1130.6	980.6	349.1	122.1	242.8	1275.5	1489.3	1331.1
80°	73.8	90.3	392.1	745.8	600.7	235.4	105.6	135.2	868.2	1188.7	1094.3
81°	63.5	76.2	250.5	390.4	428.9	121.6	89.1	113.1	462.4	939.9	992.7
82°	54.2	64.9	111.7	251.4	264.1	102.7	72.7	91.1	222.0	692.7	839.4
83°	45.7	54.3	89.7	114.1	99.3	84.5	61.2	69.1	146.1	518.8	686.0
84°	37.9	44.7	72.6	89.4	79.6	65.4	50.4	55.9	117.2	365.1	531.1
85°	30.1	36.6	55.5	73.7	61.3	50.2	39.9	44.5	96.0	235.5	328.4
86°	22.4	28.6	41.6	59.1	45.1	39.5	30.1	34.6	74.8	169.2	232.0
87°	15.3	20.6	30.1	43.1	33.3	28.9	21.0	25.7	54.6	102.9	135.7
88°	8.8	13.4	18.7	34.6	21.5	18.3	14.6	19.6	36.1	38.0	40.4
89°	3.8	5.8	7.8	26.3	9.7	9.2	8.2	13.5	24.5	25.8	27.3



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CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9
1°	1608.2	1608.0	1609.3	1613.6	1617.8	1623.8	1630.2	1631.6	1637.9	1644.8	1650.2
2°	1587.8	1587.0	1590.1	1596.1	1604.4	1614.6	1627.2	1634.9	1648.9	1662.3	1673.9
3°	1570.0	1568.9	1572.8	1580.9	1592.8	1608.0	1626.0	1640.4	1660.9	1682.0	1700.8
4°	1555.1	1553.8	1558.5	1568.5	1583.6	1603.0	1626.3	1647.1	1675.0	1703.8	1730.2
5°	1542.6	1540.7	1546.3	1558.3	1575.9	1599.7	1627.9	1655.2	1691.3	1728.2	1761.7
6°	1532.1	1529.8	1536.3	1549.7	1570.6	1597.9	1631.0	1665.1	1708.7	1754.5	1797.9
7°	1523.0	1521.0	1527.6	1542.9	1566.3	1597.8	1636.2	1676.9	1728.6	1784.1	1837.1
8°	1516.4	1513.9	1521.4	1538.1	1563.8	1598.9	1642.6	1689.5	1749.6	1816.2	1879.5
9°	1510.8	1508.4	1516.5	1535.0	1562.8	1601.4	1649.9	1703.4	1772.8	1850.5	1924.7
10°	1507.2	1504.5	1513.5	1533.3	1563.3	1604.7	1658.2	1718.8	1797.4	1886.8	1973.6
11°	1505.6	1502.5	1512.3	1533.7	1565.8	1609.6	1668.3	1736.1	1825.0	1925.9	2026.8
12°	1505.0	1502.1	1512.4	1535.5	1569.4	1616.1	1679.6	1754.1	1853.2	1967.6	2082.0
13°	1506.3	1502.7	1513.4	1538.2	1574.1	1623.3	1691.8	1773.5	1883.1	2011.6	2142.2
14°	1507.7	1504.7	1516.2	1542.3	1580.3	1631.6	1704.4	1793.3	1914.2	2057.8	2205.6
15°	1510.5	1507.1	1519.7	1547.1	1587.6	1641.2	1717.8	1813.9	1946.4	2106.8	2273.8
16°	1513.8	1510.4	1523.5	1552.0	1594.8	1651.5	1732.0	1836.1	1980.3	2158.7	2345.2
17°	1517.6	1514.2	1528.1	1558.1	1603.2	1662.7	1747.3	1858.9	2015.9	2212.7	2418.0
18°	1522.3	1518.7	1533.8	1564.4	1612.2	1673.7	1762.6	1882.3	2051.8	2269.2	2492.2
19°	1527.4	1524.3	1539.5	1571.6	1621.0	1686.0	1779.1	1906.4	2089.2	2326.8	2565.6
20°	1534.1	1530.6	1546.5	1579.7	1630.6	1698.3	1796.1	1931.5	2129.2	2384.8	2635.7
21°	1541.3	1538.3	1554.3	1588.5	1640.1	1711.4	1814.3	1957.6	2168.9	2445.3	2704.0
22°	1549.3	1546.1	1563.0	1598.1	1650.8	1725.2	1832.9	1984.5	2211.8	2503.4	2769.5
23°	1558.1	1555.5	1572.6	1608.3	1662.2	1739.7	1851.4	2012.3	2256.2	2561.1	2831.8
24°	1567.6	1565.9	1583.1	1619.5	1674.1	1754.0	1870.5	2040.8	2300.0	2615.9	2889.9
25°	1578.0	1576.6	1594.4	1631.2	1687.2	1769.3	1890.5	2069.0	2344.6	2669.7	2945.2
26°	1589.4	1588.7	1606.5	1643.2	1700.7	1784.6	1910.3	2098.6	2389.7	2719.7	2998.7
27°	1600.8	1601.6	1619.1	1655.8	1714.6	1799.6	1930.6	2128.6	2435.0	2768.0	3048.2
28°	1613.0	1616.2	1632.2	1669.4	1729.2	1816.0	1951.0	2160.0	2479.8	2814.4	3096.3
29°	1626.3	1631.3	1646.1	1683.1	1744.2	1832.3	1971.8	2190.4	2523.1	2858.3	3142.2
30°	1640.5	1647.7	1661.1	1697.2	1758.7	1849.2	1992.4	2221.6	2566.2	2899.9	3184.9
31°	1655.4	1664.3	1676.8	1711.7	1774.4	1866.1	2012.8	2252.8	2607.4	2938.9	3225.1
32°	1670.9	1682.3	1692.6	1727.6	1790.7	1883.8	2033.9	2284.4	2646.9	2976.2	3262.9
33°	1687.2	1700.3	1708.7	1743.2	1807.0	1901.4	2054.6	2316.2	2685.6	3013.1	3299.1
34°	1703.3	1718.5	1724.9	1759.6	1824.0	1919.3	2075.6	2347.9	2721.3	3047.6	3332.6
35°	1719.5	1737.2	1741.1	1776.7	1841.0	1938.0	2096.6	2380.0	2757.1	3081.8	3362.6
36°	1736.2	1756.3	1757.3	1794.1	1858.2	1956.6	2119.0	2412.7	2791.6	3112.6	3390.4
37°	1751.6	1774.9	1773.9	1811.4	1875.9	1975.9	2141.5	2444.0	2824.4	3143.1	3415.4
38°	1768.6	1794.4	1791.3	1830.1	1894.0	1994.7	2164.8	2476.0	2857.0	3171.9	3438.8
39°	1785.7	1813.4	1808.8	1848.4	1912.5	2015.0	2188.1	2506.7	2887.2	3199.2	3458.5
40°	1803.2	1831.7	1827.0	1867.2	1931.7	2034.6	2211.7	2536.6	2916.4	3225.3	3475.7
41°	1821.5	1849.2	1845.2	1886.4	1951.4	2054.8	2235.6	2566.3	2944.4	3249.7	3488.6
42°	1839.6	1866.8	1864.1	1905.1	1972.1	2076.1	2260.1	2594.5	2972.9	3274.1	3498.6
43°	1858.0	1883.8	1883.6	1925.8	1992.2	2098.0	2286.0	2622.2	3000.6	3295.7	3507.2
44°	1877.4	1901.6	1903.7	1946.2	2013.3	2121.3	2312.0	2649.4	3027.9	3315.4	3511.5

REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1897.3	1919.3	1923.8	1967.3	2035.3	2143.5	2338.3	2676.2	3053.8	3334.5	3513.7
46°	1917.6	1935.9	1944.5	1988.1	2057.1	2167.3	2364.5	2700.7	3078.8	3351.6	3511.9
47°	1939.0	1952.1	1966.3	2009.2	2079.9	2190.4	2391.0	2723.3	3102.8	3367.5	3507.3
48°	1960.7	1969.5	1988.7	2031.0	2103.0	2214.8	2417.6	2745.8	3124.8	3380.7	3500.1
49°	1983.4	1987.5	2011.0	2052.5	2126.3	2239.6	2443.1	2766.9	3145.6	3392.3	3489.5
50°	2006.3	2004.8	2034.4	2075.0	2150.8	2265.6	2468.8	2787.0	3163.7	3402.8	3476.5
51°	2031.0	2022.9	2058.0	2097.9	2174.7	2291.0	2493.9	2805.1	3180.6	3409.7	3459.3
52°	2054.8	2040.3	2081.6	2121.8	2201.0	2316.6	2518.5	2821.8	3194.4	3414.1	3437.9
53°	2076.9	2054.2	2103.0	2145.7	2227.2	2342.8	2540.8	2836.8	3204.7	3414.9	3413.3
54°	2096.0	2064.0	2122.9	2170.8	2254.8	2368.6	2562.1	2848.4	3212.9	3414.1	3385.8
55°	2113.3	2074.5	2140.3	2196.3	2282.3	2394.8	2581.6	2858.0	3217.0	3407.8	3355.6
56°	2131.2	2087.2	2157.2	2222.6	2312.1	2421.5	2598.2	2865.4	3216.7	3397.9	3320.8
57°	2148.3	2100.8	2174.6	2248.4	2341.2	2448.3	2613.9	2869.4	3211.2	3382.3	3282.0
58°	2165.0	2110.5	2191.1	2276.4	2371.8	2474.1	2626.4	2871.1	3200.9	3362.5	3238.9
59°	2178.6	2117.8	2204.6	2302.4	2403.9	2498.6	2636.4	2869.7	3185.6	3337.5	3192.2
60°	2190.3	2126.5	2216.4	2328.6	2436.7	2523.0	2645.0	2864.1	3165.5	3307.3	3141.3
61°	2202.4	2134.7	2228.5	2353.4	2470.1	2547.6	2650.5	2852.2	3140.8	3271.1	3087.3
62°	2214.1	2140.1	2240.2	2379.4	2502.0	2572.6	2652.3	2834.4	3109.6	3229.4	3030.4
63°	2223.3	2144.3	2250.5	2404.1	2532.6	2595.4	2650.8	2811.5	3070.5	3181.8	2971.4
64°	2231.1	2146.1	2259.6	2427.5	2563.4	2616.7	2646.2	2782.1	3025.6	3130.6	2911.8
65°	2231.8	2129.8	2260.3	2449.3	2594.3	2635.6	2634.7	2743.8	2972.2	3072.2	2849.3
66°	2210.7	2115.9	2237.3	2467.4	2624.8	2650.4	2617.6	2695.6	2910.9	3007.3	2786.1
67°	2198.7	2108.8	2224.9	2481.3	2651.9	2662.2	2590.2	2625.1	2841.7	2936.4	2724.4
68°	2193.8	2082.4	2216.3	2475.8	2677.5	2668.5	2538.9	2505.1	2752.4	2859.6	2661.7
69°	2162.3	2007.4	2181.9	2461.8	2698.8	2664.0	2446.4	2329.2	2624.6	2772.2	2599.5
70°	2100.3	1871.1	2120.6	2460.2	2715.0	2645.1	2301.1	2102.4	2454.3	2671.8	2537.1
71°	2001.7	1670.0	2022.5	2442.7	2717.9	2597.4	2118.3	1869.0	2241.7	2550.3	2470.3
72°	1843.6	1482.8	1865.7	2413.8	2698.9	2512.3	1925.7	1663.1	2015.7	2402.9	2400.6
73°	1648.4	1305.2	1664.5	2369.0	2649.1	2389.3	1743.0	1460.4	1797.3	2232.2	2320.6
74°	1457.0	1106.8	1479.7	2288.6	2567.9	2250.7	1555.8	1203.4	1575.5	2038.2	2226.9
75°	1255.7	842.9	1283.4	2164.9	2445.6	2097.7	1303.7	836.7	1308.1	1825.0	2094.4
76°	1013.6	608.8	1039.5	2001.7	2256.8	1934.5	937.6	473.8	942.7	1601.9	1912.1
77°	780.1	554.6	823.9	1814.0	2000.7	1737.7	573.9	347.1	551.4	1356.7	1660.8
78°	733.9	723.3	800.0	1581.7	1686.5	1429.4	283.2	227.2	407.9	1053.3	1327.9
79°	904.4	688.0	963.1	1312.8	1377.8	993.8	150.8	107.4	270.9	697.5	959.0
80°	1056.9	652.6	823.1	1047.8	1118.4	561.4	125.3	91.5	133.9	394.0	590.1
81°	824.9	614.0	683.2	950.9	858.9	269.6	99.8	78.4	111.1	256.0	426.2
82°	592.9	352.4	541.0	786.1	599.5	159.5	74.4	66.4	94.5	118.9	266.8
83°	337.8	250.6	306.5	621.3	414.8	123.3	61.8	55.4	77.2	90.5	107.4
84°	190.6	148.7	185.1	455.9	251.4	101.2	50.4	44.9	60.2	72.4	85.0
85°	126.4	48.2	148.7	255.7	183.3	79.0	40.1	35.6	46.0	54.8	70.1
86°	62.8	32.6	112.3	204.7	115.3	57.1	30.8	26.4	35.7	39.8	56.0
87°	43.6	17.1	76.0	153.7	48.0	40.3	22.6	17.2	25.4	28.6	39.2
88°	24.4	1.6	39.6	102.7	32.6	27.4	15.5	9.7	15.2	17.4	22.9
89°	5.4	1.0	3.6	51.7	17.2	14.6	8.5	3.6	6.6	6.9	6.7



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1631.9	1631.9	1631.9
1°	1654.9	1658.2	1659.6
2°	1683.9	1690.4	1691.6
3°	1715.4	1724.9	1727.8
4°	1750.6	1764.7	1768.0
5°	1790.1	1808.4	1813.2
6°	1833.9	1856.6	1863.1
7°	1880.7	1909.7	1917.4
8°	1931.3	1966.6	1976.9
9°	1987.2	2027.6	2041.0
10°	2046.6	2095.1	2110.4
11°	2111.2	2169.5	2185.8
12°	2181.4	2247.1	2267.1
13°	2256.6	2331.5	2353.3
14°	2336.2	2422.5	2448.6
15°	2419.4	2516.7	2550.1
16°	2504.8	2615.0	2654.7
17°	2593.1	2715.3	2759.0
18°	2679.9	2814.9	2861.9
19°	2764.2	2909.1	2958.6
20°	2845.6	2998.6	3047.6
21°	2921.7	3079.7	3127.8
22°	2993.1	3152.3	3196.9
23°	3061.3	3216.8	3259.6
24°	3124.3	3274.7	3314.7
25°	3183.7	3324.7	3362.0
26°	3236.9	3369.2	3402.8
27°	3286.4	3406.9	3439.5
28°	3330.2	3439.7	3470.4
29°	3369.9	3467.4	3496.1
30°	3403.7	3491.1	3516.4
31°	3434.6	3509.0	3533.0
32°	3460.8	3524.3	3545.0
33°	3483.2	3534.9	3554.2
34°	3501.4	3541.9	3558.3
35°	3516.7	3544.7	3560.2
36°	3528.4	3544.5	3559.2
37°	3535.9	3542.1	3554.3
38°	3540.7	3536.7	3546.9
39°	3542.3	3529.4	3537.9
40°	3541.2	3519.6	3525.9
41°	3536.8	3507.7	3509.4
42°	3529.7	3493.4	3491.3
43°	3519.8	3477.6	3469.2
44°	3506.5	3457.8	3443.3



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3491.6	3435.8	3413.3
46°	3473.4	3409.8	3378.1
47°	3452.9	3380.1	3340.2
48°	3429.5	3347.5	3299.6
49°	3403.2	3309.5	3253.5
50°	3373.2	3269.1	3203.7
51°	3338.8	3223.7	3147.6
52°	3300.1	3171.8	3088.0
53°	3256.9	3116.4	3024.5
54°	3211.6	3056.9	2958.8
55°	3162.4	2991.9	2889.6
56°	3108.2	2924.6	2815.8
57°	3050.7	2854.8	2744.2
58°	2989.5	2781.4	2668.3
59°	2927.8	2708.2	2593.4
60°	2865.3	2632.9	2512.9
61°	2800.5	2555.4	2429.5
62°	2737.4	2476.9	2342.1
63°	2675.0	2397.7	2256.1
64°	2614.6	2324.5	2175.1
65°	2556.6	2254.9	2109.7
66°	2501.8	2198.0	2061.7
67°	2449.6	2156.1	2034.5
68°	2402.7	2127.3	2006.2
69°	2361.9	2097.5	1941.4
70°	2330.8	2047.7	1813.8
71°	2298.7	1952.0	1620.4
72°	2257.9	1783.5	1411.5
73°	2195.1	1562.8	1195.9
74°	2080.8	1318.1	947.1
75°	1900.6	1060.9	635.2
76°	1665.2	767.6	345.7
77°	1402.0	441.0	226.1
78°	1072.5	325.6	107.5
79°	687.8	210.3	85.6
80°	366.9	94.9	73.8
81°	240.6	78.6	63.5
82°	115.8	66.8	54.2
83°	89.4	56.1	45.7
84°	71.8	46.3	37.9
85°	54.5	37.9	30.1
86°	40.6	29.5	22.4
87°	29.0	21.1	15.3
88°	17.5	13.4	8.8
89°	6.8	5.7	3.8



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0



REPORT NUMBER: P1436769

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)