

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: P1445036

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

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445036
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 (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: 28062 (1 lamp)
Luminaire Lumens: 12218.7 lumens
Efficiency: 43.5%
Efficacy: 167.2 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

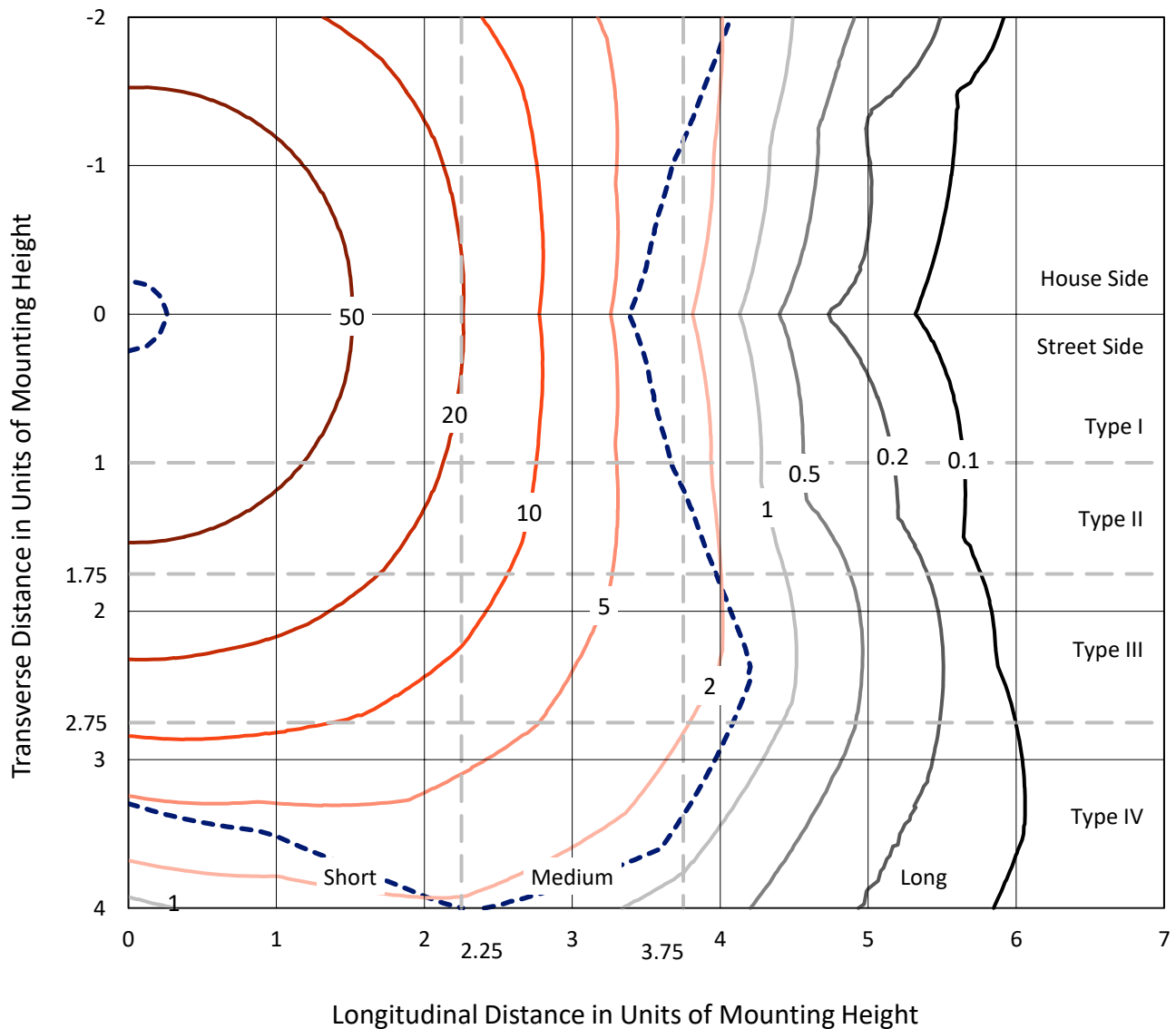
Input Watts (W): 73.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

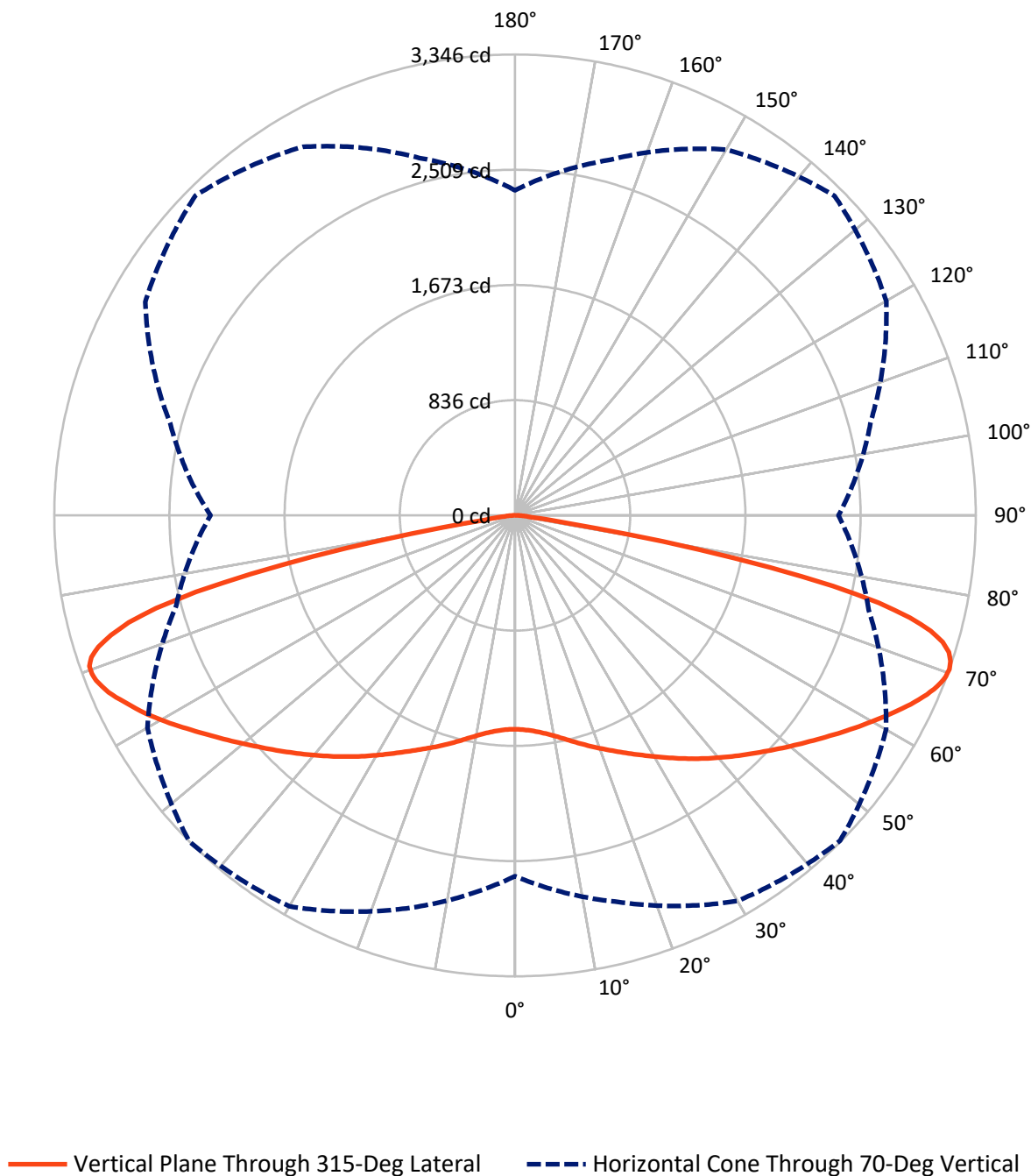


Based on 3 foot mounting height. Maximum calculated value = 172.9 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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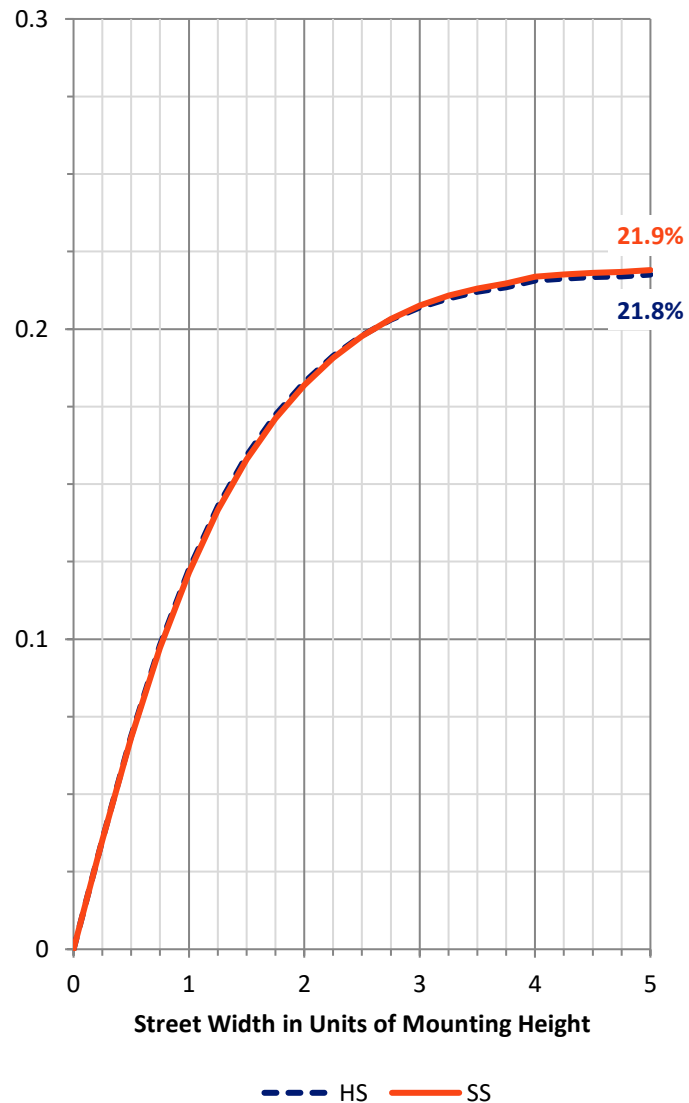
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6080.2	0.0	6080.2
	% Lamp	21.7	0.0	21.7
Street Side	Lumens	6138.5	0.0	6138.5
	% Lamp	21.9	0.0	21.9
Total	Lumens	12218.7	0.0	12218.7
	% Lamp	43.5	0.0	43.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	151.7	1.2	0.5
10°-20°	485.5	4.0	1.7
20°-30°	882.7	7.2	3.1
30°-40°	1352.0	11.1	4.8
40°-50°	1884.4	15.4	6.7
50°-60°	2466.3	20.2	8.8
60°-70°	2947.4	24.1	10.5
70°-80°	1952.8	16.0	7.0
80°-90°	96.0	0.8	0.3
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	43.5
0°-180°	12218.7	100.0	43.5



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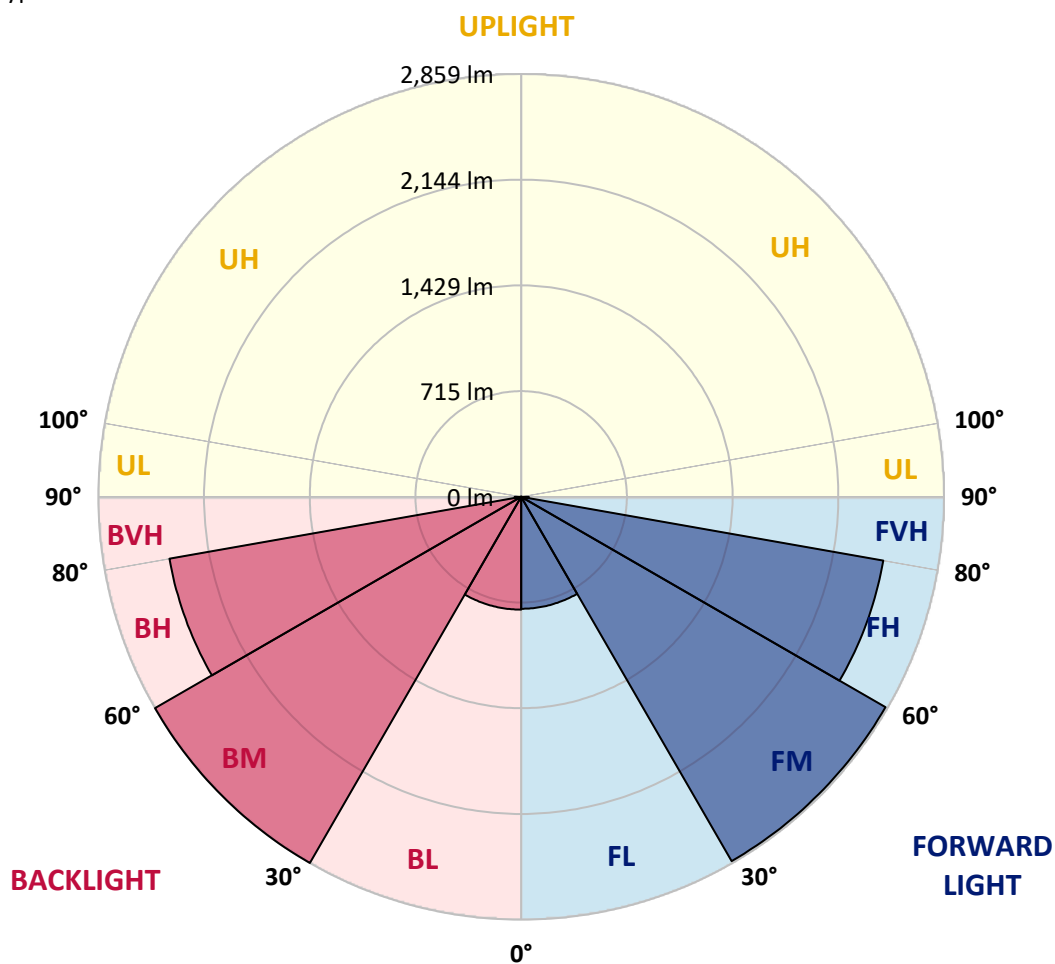
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T5)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.0	2.7			
FM	(30°-60°)	2844.0	10.1			
FH	(60°-80°)	2486.0	8.9			G2/5000
FVH	(80°-90°)	51.5	0.2			G1/100
BL	(0°-30°)	762.9	2.7	B2/1000		
BM	(30°-60°)	2858.6	10.2	B3/5000		
BH	(60°-80°)	2414.3	8.6	B3/2500		G2/5000
BVH	(80°-90°)	44.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		15843.3	56.5			

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2
1°	1553.9	1553.6	1553.9	1553.6	1553.6	1553.5	1552.3	1552.5	1552.5	1553.0	1553.3
2°	1556.3	1555.7	1555.6	1555.2	1554.6	1554.0	1553.1	1553.1	1553.3	1554.1	1554.9
3°	1560.4	1559.4	1558.8	1557.8	1557.5	1556.6	1555.6	1555.5	1555.8	1556.7	1558.0
4°	1566.2	1565.0	1563.8	1562.8	1561.8	1560.7	1559.6	1559.5	1559.9	1561.2	1562.8
5°	1572.8	1571.3	1570.0	1568.3	1566.8	1565.9	1564.4	1565.0	1566.0	1567.5	1569.1
6°	1580.3	1578.4	1577.5	1575.6	1573.2	1571.8	1570.4	1570.8	1572.4	1575.0	1577.1
7°	1588.6	1586.6	1586.1	1583.9	1581.6	1579.4	1577.7	1578.4	1579.8	1583.8	1586.7
8°	1598.1	1596.0	1595.1	1593.3	1590.7	1588.3	1587.1	1588.0	1589.7	1593.3	1597.4
9°	1608.6	1606.7	1605.3	1603.5	1601.3	1598.4	1596.6	1597.9	1601.0	1604.7	1608.9
10°	1620.0	1618.1	1616.9	1615.0	1613.1	1609.7	1608.1	1609.5	1613.2	1617.7	1621.4
11°	1632.5	1630.4	1629.8	1628.1	1625.5	1622.2	1620.2	1622.3	1626.5	1632.1	1635.4
12°	1645.3	1642.5	1642.8	1641.8	1639.0	1635.5	1633.1	1635.9	1640.7	1647.0	1650.7
13°	1657.7	1655.0	1656.7	1656.8	1653.2	1649.9	1646.4	1649.9	1656.2	1662.7	1667.2
14°	1671.4	1668.3	1670.5	1671.9	1668.4	1664.4	1660.4	1664.8	1671.5	1679.6	1683.8
15°	1684.9	1682.0	1684.8	1687.8	1684.1	1679.3	1675.3	1679.5	1687.9	1696.8	1700.4
16°	1699.5	1697.3	1699.7	1703.5	1700.5	1695.3	1691.4	1695.4	1704.8	1714.5	1718.0
17°	1715.3	1713.2	1716.0	1720.0	1717.8	1711.6	1707.5	1711.8	1722.9	1731.6	1735.6
18°	1731.7	1728.8	1732.3	1736.4	1734.9	1728.5	1724.4	1729.1	1740.7	1749.4	1752.6
19°	1748.5	1745.4	1749.5	1753.5	1752.7	1746.3	1742.1	1747.5	1759.1	1767.6	1769.7
20°	1766.8	1763.2	1766.9	1770.9	1770.9	1765.0	1760.8	1766.7	1778.1	1785.8	1786.8
21°	1785.4	1781.7	1784.4	1788.8	1789.8	1783.9	1779.7	1786.6	1797.4	1803.3	1804.6
22°	1805.2	1801.2	1803.0	1807.0	1809.9	1803.8	1800.1	1807.2	1817.9	1822.6	1823.4
23°	1826.0	1821.8	1822.2	1826.4	1830.2	1824.6	1820.8	1829.0	1838.5	1842.0	1843.3
24°	1848.0	1843.2	1842.1	1846.2	1850.9	1845.8	1842.8	1851.2	1860.2	1862.2	1863.8
25°	1870.9	1865.3	1862.9	1867.3	1872.8	1867.9	1865.9	1874.3	1881.5	1883.1	1884.0
26°	1894.7	1888.1	1884.5	1888.7	1894.6	1889.7	1889.3	1897.6	1903.5	1904.4	1904.8
27°	1919.3	1911.3	1906.3	1911.0	1916.4	1912.0	1913.1	1921.3	1925.8	1926.7	1926.3
28°	1945.0	1934.9	1928.7	1933.7	1938.6	1934.8	1937.8	1944.7	1949.0	1949.8	1948.0
29°	1971.2	1958.7	1952.1	1957.4	1960.9	1957.9	1963.7	1968.5	1972.1	1973.7	1970.7
30°	1997.9	1982.6	1975.9	1981.5	1983.7	1981.7	1990.3	1992.9	1995.8	1997.8	1993.6
31°	2025.1	2007.0	2000.7	2006.3	2006.7	2004.9	2017.1	2017.0	2019.6	2022.7	2017.6
32°	2052.1	2031.5	2025.4	2031.4	2029.8	2029.8	2043.4	2042.0	2044.0	2047.9	2041.7
33°	2079.0	2056.7	2051.3	2056.1	2054.4	2053.9	2070.6	2066.2	2069.0	2073.1	2066.5
34°	2106.2	2081.7	2076.7	2081.5	2078.7	2077.4	2097.0	2090.3	2094.0	2097.9	2091.5
35°	2134.9	2106.6	2102.9	2107.2	2103.6	2101.1	2124.4	2114.2	2119.4	2123.8	2117.8
36°	2163.2	2132.3	2129.7	2133.4	2129.4	2125.8	2151.5	2138.8	2146.0	2150.1	2144.7
37°	2191.6	2158.2	2156.9	2160.2	2155.4	2149.5	2178.4	2163.7	2172.3	2176.8	2172.1
38°	2220.3	2185.1	2184.3	2186.9	2181.2	2174.4	2206.2	2188.2	2198.0	2203.4	2199.3
39°	2248.5	2212.1	2211.4	2214.0	2207.1	2200.2	2234.4	2213.5	2224.7	2229.9	2226.0
40°	2276.5	2240.2	2238.5	2241.5	2233.5	2226.2	2262.5	2239.4	2251.6	2257.6	2253.9
41°	2304.0	2268.8	2266.5	2268.9	2260.8	2253.2	2290.5	2266.7	2278.2	2285.2	2280.6
42°	2332.7	2298.1	2295.2	2297.6	2288.2	2280.6	2317.4	2294.2	2305.6	2313.9	2309.7
43°	2360.6	2328.6	2324.3	2326.7	2316.7	2309.2	2343.5	2322.8	2333.4	2343.1	2338.6
44°	2387.8	2360.0	2353.7	2356.1	2345.1	2338.5	2368.7	2352.2	2361.1	2371.8	2368.2

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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°
45°	2415.2	2391.2	2383.8	2385.3	2374.1	2369.2	2393.2	2382.0	2389.4	2401.4	2398.6
46°	2442.6	2424.3	2415.1	2415.7	2404.4	2400.8	2418.1	2413.1	2418.1	2431.6	2429.5
47°	2471.0	2459.3	2447.5	2447.4	2435.7	2433.5	2443.8	2444.4	2448.5	2463.0	2462.2
48°	2499.8	2493.8	2480.3	2479.8	2466.9	2466.7	2468.0	2476.8	2480.1	2494.0	2495.3
49°	2529.6	2530.1	2514.9	2513.3	2499.2	2500.2	2492.0	2508.8	2511.9	2526.1	2527.8
50°	2560.0	2565.4	2549.5	2546.9	2531.2	2534.1	2516.1	2540.8	2543.5	2560.0	2561.9
51°	2591.2	2602.1	2585.1	2581.3	2565.3	2567.4	2541.3	2572.1	2576.3	2594.3	2597.8
52°	2623.3	2639.5	2622.7	2618.1	2599.9	2600.2	2567.2	2604.5	2610.0	2630.4	2633.4
53°	2655.4	2676.2	2660.9	2654.4	2634.3	2632.0	2591.8	2636.2	2643.7	2665.8	2669.7
54°	2687.5	2712.7	2699.7	2693.3	2669.3	2662.9	2616.3	2666.6	2678.6	2702.0	2706.2
55°	2718.3	2746.2	2739.3	2731.6	2704.0	2691.9	2640.3	2694.1	2713.9	2741.1	2744.4
56°	2747.2	2779.5	2779.9	2771.9	2739.8	2719.3	2663.4	2721.8	2749.0	2780.4	2783.7
57°	2774.7	2810.7	2820.5	2814.2	2775.0	2744.7	2684.0	2746.6	2783.8	2820.5	2821.9
58°	2800.3	2840.1	2861.9	2857.2	2809.9	2767.2	2701.6	2768.8	2818.7	2862.0	2858.5
59°	2823.5	2867.5	2904.3	2900.6	2845.0	2785.9	2718.0	2789.3	2852.8	2904.4	2893.7
60°	2844.3	2892.3	2945.9	2945.9	2878.7	2801.8	2730.9	2806.7	2885.3	2947.2	2927.7
61°	2861.3	2914.7	2986.2	2990.9	2912.0	2816.0	2741.0	2821.8	2919.0	2989.3	2961.9
62°	2874.6	2933.5	3025.7	3037.2	2944.2	2826.2	2746.6	2832.9	2950.3	3030.9	2994.7
63°	2886.3	2950.4	3064.2	3083.9	2977.3	2831.5	2746.9	2841.4	2981.7	3069.3	3025.4
64°	2896.7	2964.1	3099.4	3130.0	3008.2	2832.7	2742.5	2846.6	3012.9	3106.5	3054.2
65°	2906.9	2975.8	3133.4	3175.5	3037.8	2832.1	2734.9	2847.6	3041.8	3144.5	3079.5
66°	2912.8	2986.9	3163.7	3219.0	3063.4	2826.5	2723.4	2843.5	3067.8	3182.6	3103.0
67°	2912.8	2994.6	3189.6	3259.4	3084.6	2816.3	2704.6	2834.5	3089.1	3217.8	3122.0
68°	2886.0	2993.1	3211.7	3295.0	3099.3	2799.6	2647.0	2816.2	3106.0	3245.7	3109.9
69°	2800.0	2970.4	3226.0	3321.7	3107.9	2753.7	2525.9	2770.3	3114.3	3267.8	3081.4
70°	2618.6	2905.1	3231.4	3338.6	3111.2	2658.8	2349.1	2677.3	3113.0	3280.5	3066.1
71°	2331.9	2757.6	3223.9	3345.6	3090.2	2511.4	2130.3	2531.2	3088.0	3278.5	3023.7
72°	2033.1	2516.6	3198.2	3335.7	3036.2	2323.2	1930.7	2339.6	3022.7	3244.6	2952.7
73°	1716.5	2202.4	3135.7	3300.9	2943.9	2121.0	1776.7	2132.9	2913.5	3171.4	2863.3
74°	1350.4	1859.7	2998.4	3226.6	2814.8	1937.2	1583.3	1942.8	2770.9	3059.9	2715.7
75°	894.1	1486.4	2747.1	3094.5	2645.3	1732.7	1209.8	1741.9	2589.6	2911.3	2495.8
76°	462.3	1043.1	2408.0	2882.3	2444.7	1425.5	836.3	1448.8	2389.7	2691.9	2195.7
77°	334.5	561.2	2040.6	2571.8	2198.3	959.3	463.3	1049.2	2151.6	2382.2	1823.8
78°	213.8	403.4	1594.9	2116.3	1855.7	497.2	199.5	649.6	1821.7	1970.0	1378.0
79°	93.1	251.2	1034.6	1612.7	1376.9	359.5	157.1	252.8	1359.0	1490.8	932.2
80°	77.4	99.0	527.9	1050.1	833.7	225.4	114.8	195.3	896.2	1008.5	488.0
81°	66.1	81.5	381.8	531.5	409.5	91.4	73.3	137.7	437.8	531.2	224.2
82°	56.4	68.9	241.6	382.1	301.9	77.7	62.6	80.2	194.9	214.8	171.1
83°	47.3	57.5	101.4	243.0	197.6	65.8	53.0	67.6	153.2	167.7	117.9
84°	39.1	47.2	79.4	103.8	93.3	54.8	43.9	56.1	111.4	120.5	65.2
85°	30.9	38.6	60.6	85.6	70.9	44.8	35.4	45.7	70.1	73.6	47.1
86°	22.7	30.0	45.5	68.9	52.1	36.0	27.4	36.2	50.3	57.7	31.6
87°	15.3	21.5	33.1	50.6	38.2	27.2	19.5	27.4	36.3	40.9	19.6
88°	8.8	13.9	20.7	40.6	24.6	18.4	13.6	19.5	25.1	25.5	13.9
89°	3.5	6.0	8.4	30.8	11.0	9.9	7.7	13.5	17.3	17.6	8.2

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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: P1445036

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: P1445036
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: P1445036

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2
1°	1553.6	1553.9	1554.2	1554.7	1555.0	1555.2	1555.4	1554.4	1554.2	1554.0	1554.3
2°	1555.5	1556.4	1556.6	1557.6	1558.0	1558.2	1558.4	1557.5	1557.6	1557.2	1557.3
3°	1558.8	1560.2	1561.1	1561.9	1562.7	1563.0	1563.6	1562.3	1562.4	1562.0	1562.3
4°	1564.2	1565.8	1566.9	1567.9	1568.8	1569.3	1569.8	1568.8	1568.5	1568.2	1568.0
5°	1570.8	1572.9	1574.1	1575.7	1576.4	1576.9	1577.1	1576.0	1575.8	1575.4	1575.2
6°	1579.3	1581.4	1583.3	1584.9	1585.6	1585.6	1585.7	1584.4	1584.5	1584.2	1583.9
7°	1589.3	1591.2	1593.6	1595.4	1596.1	1596.6	1597.0	1595.3	1595.0	1594.4	1594.2
8°	1600.1	1602.4	1605.0	1607.3	1608.4	1609.3	1608.8	1606.8	1606.4	1605.8	1604.9
9°	1611.8	1614.5	1617.6	1620.6	1622.3	1622.6	1621.6	1618.7	1618.8	1618.6	1617.7
10°	1624.9	1628.0	1631.5	1635.2	1637.3	1637.3	1635.5	1632.6	1632.4	1632.7	1631.0
11°	1639.2	1642.7	1646.8	1651.3	1653.6	1653.3	1651.1	1647.9	1647.9	1648.2	1646.0
12°	1654.2	1657.7	1662.8	1668.2	1671.0	1670.2	1667.7	1663.9	1664.4	1664.3	1661.7
13°	1669.5	1673.0	1678.7	1686.4	1689.7	1688.7	1684.8	1681.0	1681.6	1681.6	1678.5
14°	1685.7	1688.9	1695.5	1704.4	1709.0	1707.6	1703.3	1698.8	1699.7	1700.2	1696.0
15°	1701.9	1704.8	1712.6	1723.1	1729.1	1727.4	1722.1	1717.2	1718.5	1719.5	1713.9
16°	1718.6	1721.5	1729.8	1741.6	1749.5	1748.7	1741.8	1736.2	1737.7	1738.9	1732.1
17°	1735.3	1738.2	1747.3	1760.4	1770.1	1769.3	1762.5	1756.3	1757.5	1758.7	1751.0
18°	1752.6	1755.4	1765.4	1778.9	1790.4	1790.9	1783.4	1776.3	1778.4	1779.1	1770.2
19°	1770.1	1773.9	1783.2	1797.7	1811.3	1812.2	1804.5	1797.2	1799.4	1799.7	1788.8
20°	1787.9	1792.3	1802.1	1817.9	1831.7	1834.3	1826.5	1819.0	1821.4	1821.0	1808.4
21°	1806.8	1811.4	1821.6	1837.8	1852.7	1857.1	1849.8	1841.5	1843.4	1842.7	1827.9
22°	1826.4	1831.3	1842.0	1858.8	1874.9	1880.1	1873.5	1864.4	1866.7	1864.7	1848.8
23°	1845.9	1851.7	1863.5	1880.8	1897.0	1904.1	1896.7	1888.4	1890.8	1886.9	1870.4
24°	1867.0	1873.5	1885.4	1903.0	1920.2	1927.8	1920.8	1912.8	1914.9	1909.3	1891.4
25°	1887.8	1895.4	1907.8	1925.4	1943.7	1951.6	1945.9	1937.8	1939.0	1932.6	1913.2
26°	1909.8	1919.1	1930.9	1948.9	1967.6	1975.6	1970.8	1964.1	1963.1	1955.6	1936.3
27°	1931.8	1942.7	1954.0	1972.3	1991.3	1999.4	1995.6	1990.1	1987.5	1978.7	1959.1
28°	1954.2	1968.6	1977.7	1996.4	2016.9	2024.4	2021.1	2017.7	2012.4	2002.7	1983.4
29°	1977.4	1994.4	2002.1	2021.4	2041.8	2049.0	2047.0	2045.1	2037.3	2027.4	2008.8
30°	2001.3	2021.6	2026.9	2046.0	2067.3	2074.0	2072.5	2072.6	2062.0	2051.6	2034.5
31°	2025.8	2049.0	2052.0	2070.7	2091.7	2099.0	2097.4	2100.7	2087.0	2076.0	2060.4
32°	2050.4	2076.6	2077.3	2095.6	2117.6	2125.1	2123.3	2128.6	2111.2	2100.3	2086.3
33°	2075.7	2104.8	2102.6	2121.8	2143.4	2151.3	2149.0	2156.7	2136.4	2126.2	2113.3
34°	2100.9	2132.8	2127.5	2148.3	2170.1	2177.4	2175.0	2185.3	2161.3	2151.9	2140.4
35°	2125.6	2162.2	2153.7	2175.4	2196.8	2203.8	2200.6	2213.8	2187.1	2178.8	2168.7
36°	2151.1	2191.6	2180.0	2202.7	2223.2	2229.7	2226.5	2242.8	2212.7	2205.6	2196.6
37°	2176.1	2220.9	2206.7	2230.1	2250.0	2255.9	2253.4	2271.8	2239.2	2232.9	2224.6
38°	2202.5	2249.9	2234.1	2258.0	2277.6	2282.9	2280.1	2300.8	2265.8	2260.5	2253.1
39°	2229.4	2279.2	2261.7	2286.5	2305.9	2309.8	2307.9	2329.2	2292.7	2288.7	2281.2
40°	2257.5	2306.7	2290.7	2315.6	2334.0	2337.7	2335.6	2356.6	2320.2	2317.3	2310.0
41°	2286.8	2334.3	2319.9	2344.8	2363.2	2365.2	2363.4	2383.0	2348.6	2346.3	2338.7
42°	2315.7	2361.2	2350.5	2373.6	2392.1	2393.9	2392.0	2409.3	2378.3	2375.9	2368.7
43°	2345.7	2387.8	2381.2	2403.0	2422.3	2424.1	2422.2	2436.0	2408.9	2405.2	2397.8
44°	2376.6	2414.4	2412.7	2433.4	2452.8	2454.1	2452.6	2463.6	2440.3	2434.7	2428.2

REPORT NUMBER: P1445036

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2408.2	2441.5	2444.7	2465.1	2484.3	2484.7	2484.9	2490.2	2472.4	2465.3	2458.9
46°	2441.0	2468.0	2478.1	2496.1	2516.1	2515.2	2517.0	2514.4	2506.0	2496.5	2490.3
47°	2475.4	2493.8	2512.0	2527.5	2548.3	2545.9	2549.0	2538.5	2538.1	2528.0	2523.1
48°	2510.2	2521.0	2547.0	2560.0	2580.9	2577.4	2580.5	2563.2	2570.6	2559.6	2556.4
49°	2545.2	2550.2	2583.0	2592.7	2614.6	2609.1	2611.8	2588.4	2602.5	2591.7	2590.1
50°	2582.0	2578.8	2619.5	2627.1	2648.2	2641.3	2642.3	2613.9	2634.1	2624.9	2624.4
51°	2620.7	2608.4	2656.1	2661.6	2682.9	2673.0	2672.8	2637.0	2664.7	2658.1	2659.6
52°	2657.6	2636.3	2691.6	2696.2	2718.3	2704.8	2701.8	2660.5	2694.4	2691.2	2695.6
53°	2690.7	2659.6	2724.6	2732.2	2754.5	2736.6	2728.7	2682.3	2721.1	2723.5	2731.9
54°	2719.4	2676.8	2754.6	2768.6	2791.3	2769.5	2753.7	2701.8	2746.4	2757.7	2770.0
55°	2745.6	2694.5	2780.4	2805.4	2829.0	2801.1	2777.1	2720.4	2769.6	2790.4	2809.5
56°	2772.2	2714.5	2805.8	2843.9	2867.2	2832.0	2798.0	2737.2	2790.5	2822.6	2850.3
57°	2797.4	2735.5	2830.7	2881.4	2905.5	2863.1	2816.4	2751.2	2808.1	2853.8	2889.6
58°	2821.2	2750.1	2854.7	2919.9	2944.4	2893.7	2832.0	2764.8	2822.9	2884.9	2930.9
59°	2839.4	2760.4	2872.5	2956.2	2985.1	2922.8	2845.2	2776.1	2835.1	2914.8	2971.9
60°	2854.4	2773.1	2887.3	2990.3	3025.1	2951.1	2857.2	2784.8	2845.5	2944.6	3013.8
61°	2868.9	2785.7	2901.8	3025.1	3065.6	2979.4	2866.7	2788.2	2855.3	2973.3	3055.9
62°	2882.6	2795.9	2915.1	3058.0	3102.5	3008.5	2873.1	2789.2	2861.1	3000.9	3098.7
63°	2895.1	2804.4	2927.6	3088.3	3136.0	3034.7	2875.8	2788.3	2862.5	3026.4	3141.0
64°	2906.2	2806.0	2938.1	3116.1	3167.6	3060.0	2877.2	2781.4	2860.8	3049.8	3183.5
65°	2904.6	2779.6	2934.1	3140.6	3198.4	3082.0	2872.9	2769.1	2854.4	3069.5	3223.4
66°	2868.8	2756.4	2894.7	3159.8	3227.7	3099.5	2865.4	2751.6	2844.5	3086.3	3261.4
67°	2845.9	2742.0	2870.2	3170.6	3250.6	3114.1	2850.7	2709.0	2827.0	3098.5	3293.8
68°	2832.1	2695.4	2849.1	3148.9	3268.6	3123.6	2814.5	2608.0	2785.8	3105.4	3320.9
69°	2776.4	2573.2	2787.7	3112.5	3280.4	3120.7	2735.8	2436.9	2697.2	3101.0	3339.6
70°	2671.9	2359.7	2686.1	3088.5	3282.1	3100.1	2592.7	2211.0	2547.9	3081.4	3345.7
71°	2512.4	2052.7	2525.8	3035.9	3266.3	3048.4	2397.1	1985.3	2343.7	3027.8	3334.3
72°	2268.4	1774.6	2277.8	2960.1	3216.3	2952.2	2175.1	1796.7	2121.0	2938.8	3303.0
73°	1970.3	1490.2	1975.7	2856.5	3125.4	2807.1	1960.4	1613.5	1909.1	2803.0	3238.8
74°	1661.4	1117.0	1667.7	2697.0	2995.1	2630.1	1756.6	1363.4	1702.9	2628.0	3133.2
75°	1264.5	743.7	1272.4	2455.8	2821.2	2415.1	1501.6	972.4	1436.1	2412.3	2962.4
76°	867.7	376.2	877.1	2134.6	2564.9	2180.8	1103.3	551.2	1039.7	2164.4	2716.9
77°	474.3	275.9	485.2	1762.1	2215.9	1898.1	705.0	395.7	581.3	1865.7	2364.1
78°	200.1	175.6	209.8	1319.3	1761.5	1503.6	312.3	245.6	421.2	1464.9	1891.9
79°	156.0	77.7	162.8	876.5	1285.9	1092.0	144.9	95.5	261.3	971.1	1358.5
80°	111.9	64.0	115.7	437.1	810.4	680.5	121.0	79.8	101.4	533.1	822.5
81°	67.8	53.3	69.3	196.4	342.6	269.9	97.1	68.3	83.4	385.3	387.4
82°	55.4	43.8	56.6	152.2	147.6	142.7	73.4	58.0	70.7	246.4	250.3
83°	44.2	34.7	45.3	108.0	121.9	115.8	61.9	48.6	59.5	107.5	121.4
84°	34.1	26.9	34.8	64.1	96.2	89.0	51.5	40.3	49.2	83.1	97.9
85°	24.8	19.2	25.3	45.7	70.6	62.2	41.6	32.1	40.4	62.2	81.2
86°	17.6	13.2	17.8	30.2	55.0	44.7	32.6	23.9	31.6	45.4	65.1
87°	10.4	7.3	10.3	21.7	38.6	32.3	24.3	16.3	22.8	32.9	45.9
88°	3.1	1.4	2.8	13.3	26.3	22.2	16.8	9.5	15.3	20.4	36.8
89°	2.3	1.3	2.1	4.9	14.1	12.2	9.2	3.8	6.9	7.9	28.0

REPORT NUMBER: P1445036

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: P1445036

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: P1445036
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: P1445036

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1553.2	1553.2	1553.2
1°	1554.3	1553.9	1553.9
2°	1557.2	1556.9	1556.3
3°	1561.7	1561.3	1560.4
4°	1567.8	1567.1	1566.2
5°	1574.8	1573.9	1572.8
6°	1583.0	1582.0	1580.3
7°	1592.0	1590.7	1588.6
8°	1602.4	1600.2	1598.1
9°	1614.3	1611.3	1608.6
10°	1627.3	1623.5	1620.0
11°	1641.2	1636.7	1632.5
12°	1656.0	1650.2	1645.3
13°	1671.9	1664.0	1657.7
14°	1687.5	1678.1	1671.4
15°	1703.2	1692.6	1684.9
16°	1720.0	1708.0	1699.5
17°	1736.8	1724.4	1715.3
18°	1754.4	1741.1	1731.7
19°	1772.6	1758.2	1748.5
20°	1790.2	1775.5	1766.8
21°	1809.0	1794.3	1785.4
22°	1828.8	1813.8	1805.2
23°	1849.4	1834.1	1826.0
24°	1870.5	1855.0	1848.0
25°	1891.6	1877.2	1870.9
26°	1914.5	1899.8	1894.7
27°	1938.1	1923.1	1919.3
28°	1961.8	1946.6	1945.0
29°	1986.9	1970.7	1971.2
30°	2012.6	1995.1	1997.9
31°	2038.3	2020.7	2025.1
32°	2064.1	2046.2	2052.1
33°	2090.3	2072.2	2079.0
34°	2116.5	2097.2	2106.2
35°	2143.8	2123.0	2134.9
36°	2172.2	2148.6	2163.2
37°	2199.6	2175.5	2191.6
38°	2228.2	2202.9	2220.3
39°	2256.1	2230.3	2248.5
40°	2285.6	2259.1	2276.5
41°	2314.6	2288.4	2304.0
42°	2344.6	2319.1	2332.7
43°	2374.9	2350.3	2360.6
44°	2405.3	2381.3	2387.8

REPORT NUMBER: P1445036

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	2436.5	2414.8	2415.2
46°	2468.4	2448.0	2442.6
47°	2501.0	2483.1	2471.0
48°	2534.7	2518.9	2499.8
49°	2569.3	2556.3	2529.6
50°	2604.8	2593.5	2560.0
51°	2641.2	2632.0	2591.2
52°	2678.6	2669.7	2623.3
53°	2717.6	2707.6	2655.4
54°	2755.5	2744.7	2687.5
55°	2795.4	2781.6	2718.3
56°	2836.3	2815.8	2747.2
57°	2876.4	2847.4	2774.7
58°	2918.0	2876.4	2800.3
59°	2958.4	2903.3	2823.5
60°	2998.7	2927.7	2844.3
61°	3039.0	2948.5	2861.3
62°	3078.4	2967.2	2874.6
63°	3116.2	2982.9	2886.3
64°	3153.9	2997.9	2896.7
65°	3188.7	3011.4	2906.9
66°	3221.1	3024.2	2912.8
67°	3247.3	3032.5	2912.8
68°	3267.4	3031.5	2886.0
69°	3277.2	3010.5	2800.0
70°	3276.9	2949.2	2618.6
71°	3261.7	2814.7	2331.9
72°	3223.7	2574.4	2033.1
73°	3143.8	2256.1	1716.5
74°	2985.9	1898.0	1350.4
75°	2725.0	1522.9	894.1
76°	2389.7	1091.1	462.3
77°	2003.2	604.9	334.5
78°	1524.5	436.2	213.8
79°	963.5	268.6	93.1
80°	495.5	100.9	77.4
81°	355.5	84.9	66.1
82°	227.5	71.8	56.4
83°	99.4	59.6	47.3
84°	78.6	49.0	39.1
85°	59.5	40.0	30.9
86°	44.7	31.0	22.7
87°	32.2	22.0	15.3
88°	19.7	14.0	8.8
89°	7.3	5.7	3.5

REPORT NUMBER: P1445036

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: P1445036

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: P1445036

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)