

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: P1445034

Luminaire Tested: XAS180-SFPM (5000K-72W-T4)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445034
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-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 4
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 28628 (1 lamp)
Luminaire Lumens: 12465 lumens
Efficiency: 43.5%
Efficacy: 173.9 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): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

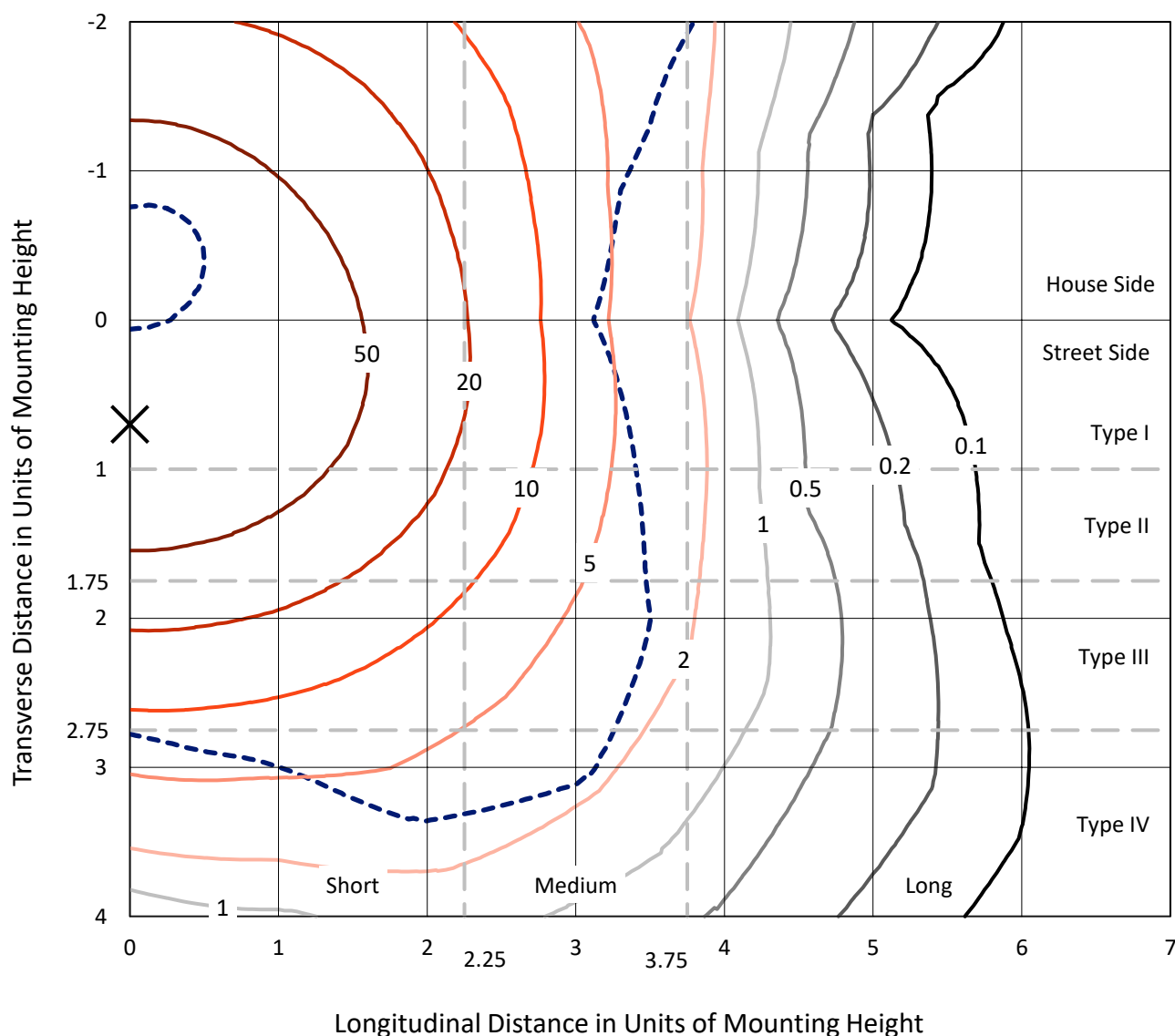
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

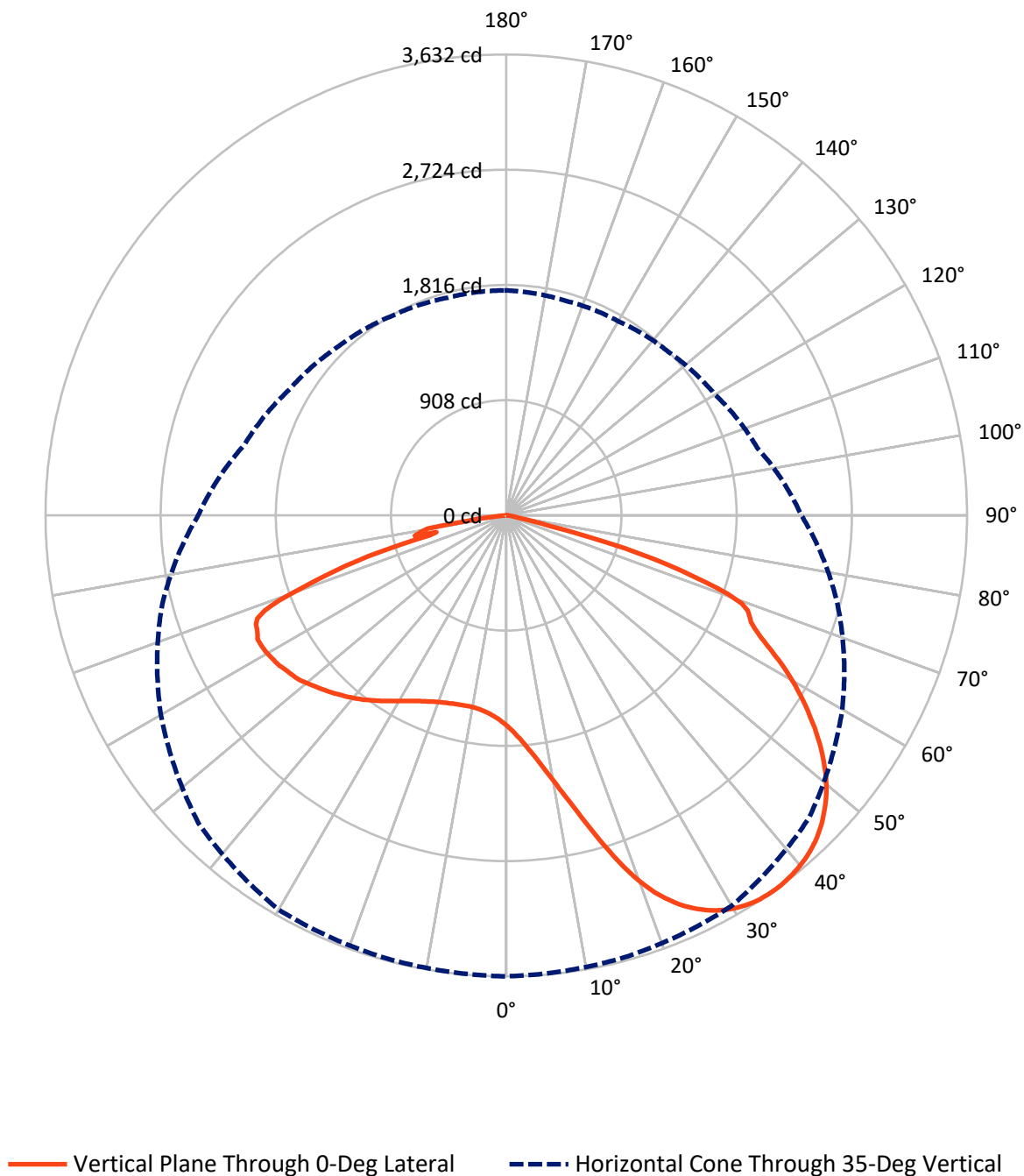


Based on 3 foot mounting height. Maximum calculated value = 287.7 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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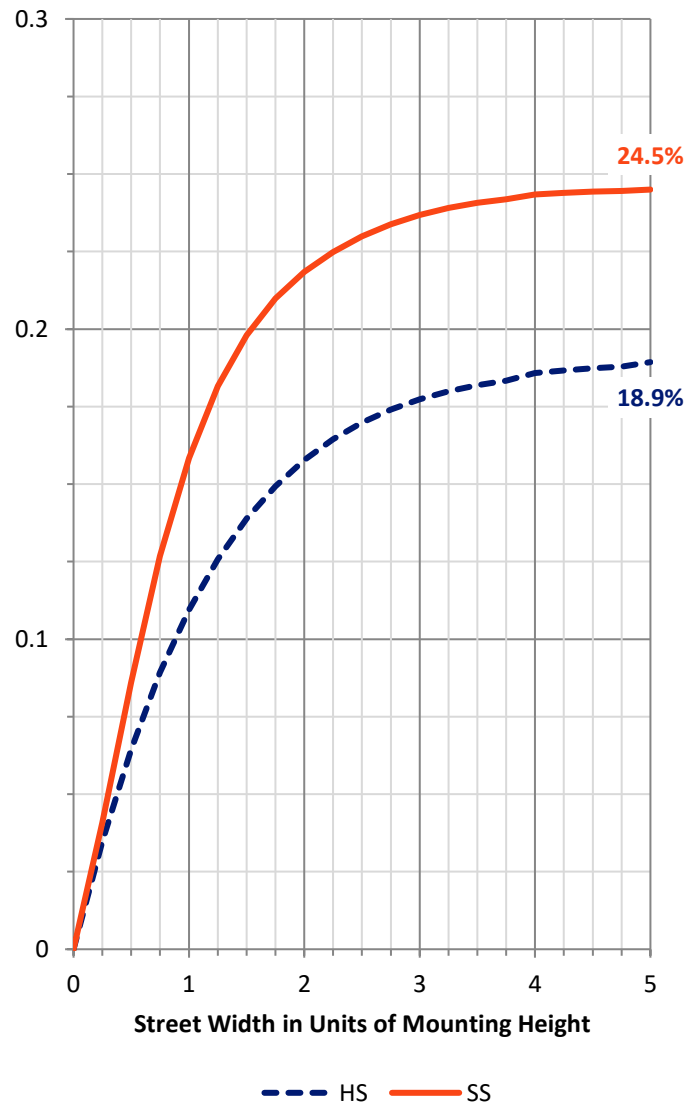
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5457.0	0.0	5457.0
	% Lamp	19.1	0.0	19.1
Street Side	Lumens	7008.0	0.0	7008.0
	% Lamp	24.5	0.0	24.5
Total	Lumens	12465.0	0.0	12465.0
	% Lamp	43.5	0.0	43.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	165.1	1.3	0.6
10°-20°	560.4	4.5	2.0
20°-30°	1075.8	8.6	3.8
30°-40°	1620.6	13.0	5.7
40°-50°	2119.3	17.0	7.4
50°-60°	2492.4	20.0	8.7
60°-70°	2600.4	20.9	9.1
70°-80°	1664.8	13.4	5.8
80°-90°	166.2	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°	12465.0	100.0	43.5
0°-180°	12465.0	100.0	43.5

Coefficient of Utilization



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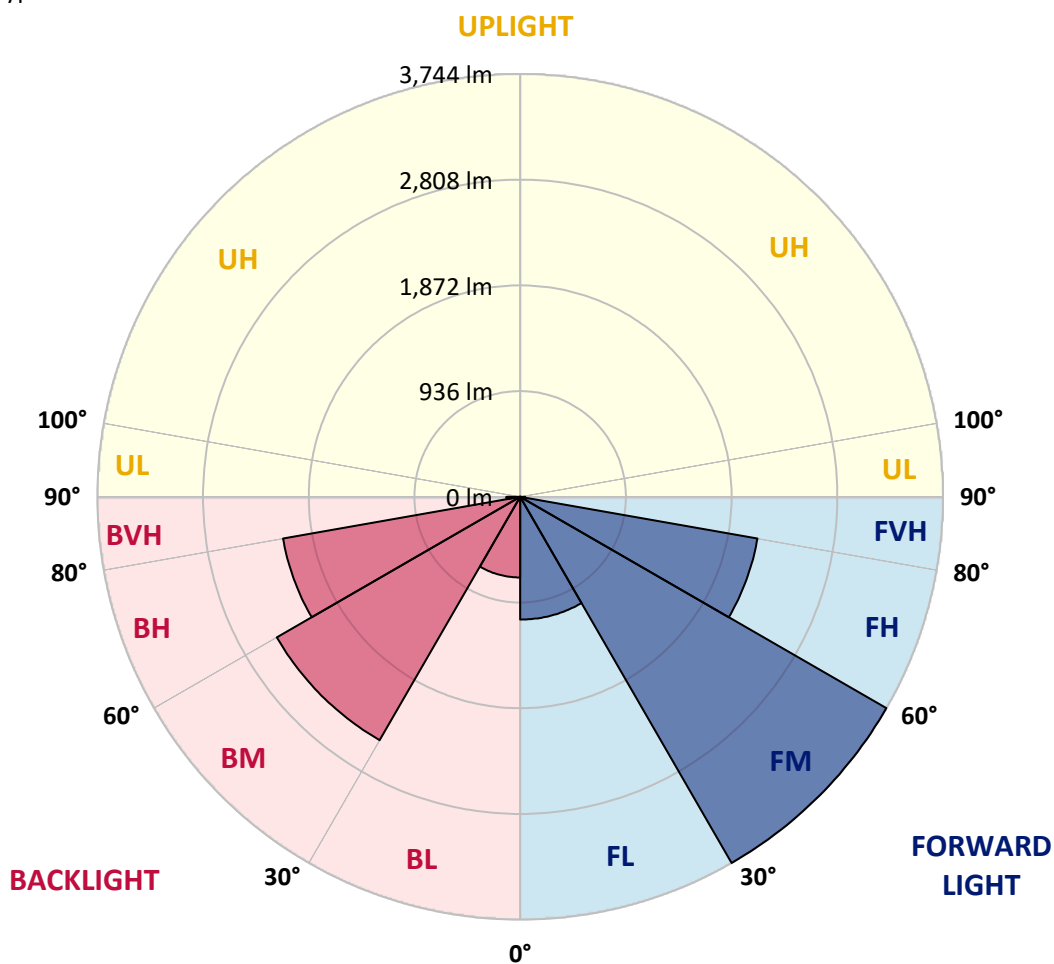
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.1	3.8			
FM	(30°-60°)	3744.0	13.1			
FH	(60°-80°)	2133.2	7.5			G2/5000
FVH	(80°-90°)	43.8	0.2			G1/100
BL	(0°-30°)	714.3	2.5	B2/1000		
BM	(30°-60°)	2488.3	8.7	B2/2500		
BH	(60°-80°)	2132.0	7.4	B3/2500		G3/2500
BVH	(80°-90°)	122.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		16163.0	56.5			

BUG Rating: B3-U0-G3

Type IV Short



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CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
1°	1693.1	1692.6	1690.3	1686.3	1680.6	1674.7	1661.8	1655.0	1649.6	1645.0	1642.1
2°	1725.8	1724.2	1718.5	1708.7	1695.8	1682.3	1662.3	1649.5	1638.2	1629.0	1623.1
3°	1762.6	1759.7	1749.4	1733.6	1714.2	1692.7	1665.2	1645.8	1629.0	1615.7	1606.3
4°	1803.6	1798.6	1783.8	1761.7	1734.4	1704.5	1669.1	1643.6	1621.7	1604.8	1592.7
5°	1849.8	1842.8	1822.7	1792.4	1757.0	1718.5	1674.6	1642.5	1616.0	1595.5	1581.0
6°	1900.7	1890.9	1865.8	1826.9	1781.5	1733.5	1681.0	1643.0	1611.9	1588.2	1571.3
7°	1956.1	1944.0	1912.8	1865.5	1808.3	1750.5	1689.8	1645.2	1609.2	1582.6	1564.0
8°	2016.7	2001.5	1963.8	1906.0	1837.3	1769.9	1700.1	1649.2	1608.3	1578.0	1557.9
9°	2082.2	2065.5	2018.7	1949.9	1870.0	1790.1	1711.6	1653.8	1609.1	1575.3	1553.2
10°	2152.9	2131.3	2077.9	1997.8	1905.1	1812.3	1724.8	1660.4	1611.0	1574.8	1550.1
11°	2229.9	2205.5	2141.7	2049.3	1941.9	1836.3	1738.9	1668.5	1614.1	1575.4	1548.8
12°	2312.8	2282.7	2209.3	2102.6	1979.8	1862.5	1754.4	1677.1	1618.5	1577.1	1549.8
13°	2400.7	2367.3	2282.8	2159.8	2020.8	1890.3	1770.6	1686.6	1623.7	1580.2	1551.7
14°	2498.0	2458.9	2361.3	2220.9	2064.3	1918.0	1787.1	1696.1	1629.4	1584.2	1553.9
15°	2601.5	2557.0	2444.0	2285.2	2109.0	1946.9	1804.8	1706.4	1636.2	1588.9	1557.4
16°	2708.2	2657.0	2530.4	2354.3	2157.2	1977.8	1823.8	1718.2	1643.3	1594.3	1561.9
17°	2814.7	2758.2	2616.5	2425.1	2207.4	2009.7	1843.6	1729.9	1651.6	1599.9	1566.9
18°	2919.6	2857.0	2702.9	2496.3	2259.9	2042.4	1864.2	1743.3	1660.6	1607.0	1571.7
19°	3018.2	2952.0	2788.2	2565.5	2314.1	2076.4	1885.7	1757.3	1669.6	1614.4	1577.7
20°	3109.0	3041.6	2868.9	2634.5	2369.3	2112.0	1908.4	1772.1	1679.4	1622.2	1584.5
21°	3190.8	3124.7	2947.3	2701.4	2423.9	2149.0	1931.4	1787.6	1689.7	1629.7	1591.9
22°	3261.4	3195.8	3020.7	2766.6	2478.9	2186.9	1955.5	1803.6	1701.5	1638.6	1600.2
23°	3325.3	3264.3	3088.9	2829.0	2533.3	2226.6	1980.5	1820.1	1714.3	1648.0	1609.4
24°	3381.5	3323.3	3152.2	2887.7	2586.6	2267.4	2005.9	1837.5	1727.5	1658.7	1619.2
25°	3429.8	3376.0	3210.9	2945.1	2638.8	2308.7	2032.8	1855.4	1741.0	1670.3	1629.2
26°	3471.4	3422.7	3265.8	2998.8	2689.0	2349.7	2060.1	1874.0	1755.2	1682.1	1640.3
27°	3508.8	3462.3	3314.3	3050.4	2737.9	2391.5	2087.4	1892.8	1769.5	1694.6	1651.8
28°	3540.4	3496.1	3358.2	3099.8	2784.1	2432.8	2115.9	1911.1	1784.7	1708.3	1663.9
29°	3566.6	3525.7	3398.2	3146.8	2828.0	2474.1	2144.9	1930.3	1799.4	1723.1	1676.7
30°	3587.3	3549.3	3434.0	3192.1	2871.4	2514.0	2174.9	1949.9	1815.5	1737.7	1689.9
31°	3604.2	3568.2	3465.4	3233.8	2911.7	2553.7	2204.8	1969.0	1832.1	1752.6	1703.7
32°	3616.5	3583.7	3493.1	3272.7	2950.3	2592.7	2235.1	1989.0	1848.6	1768.1	1718.5
33°	3625.8	3594.8	3517.3	3309.7	2987.5	2630.5	2265.3	2009.9	1866.0	1783.4	1733.9
34°	3630.1	3601.5	3536.6	3342.9	3023.0	2667.5	2295.7	2029.6	1883.5	1799.4	1749.6
35°	3632.0	3604.7	3552.9	3373.5	3058.0	2703.2	2326.1	2049.8	1901.4	1815.8	1766.4
36°	3630.9	3605.6	3565.8	3401.7	3090.1	2737.8	2356.3	2070.0	1919.7	1832.6	1783.8
37°	3625.9	3602.8	3574.9	3427.4	3121.4	2771.2	2385.9	2090.9	1938.3	1850.1	1801.7
38°	3618.4	3597.6	3581.0	3450.4	3151.4	2803.9	2416.4	2112.3	1956.7	1868.4	1819.8
39°	3609.2	3591.3	3583.2	3469.9	3180.3	2836.0	2446.9	2133.6	1975.7	1886.7	1837.9
40°	3597.0	3582.1	3583.1	3487.6	3207.6	2867.1	2478.0	2156.3	1995.1	1905.5	1856.1
41°	3580.2	3569.7	3579.2	3502.5	3232.9	2897.0	2507.4	2180.1	2015.2	1924.5	1874.7
42°	3561.7	3554.3	3572.6	3515.3	3258.1	2926.4	2536.0	2204.0	2035.4	1944.4	1893.7
43°	3539.2	3537.4	3563.8	3524.8	3280.8	2955.5	2564.1	2227.2	2055.6	1965.1	1912.9
44°	3512.8	3517.9	3551.6	3530.3	3302.4	2983.4	2589.9	2251.5	2076.5	1985.8	1932.8

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3482.2	3493.7	3535.0	3534.4	3323.5	3011.2	2616.3	2277.0	2098.7	2006.8	1952.9
46°	3446.2	3468.1	3518.0	3535.1	3343.4	3038.8	2642.1	2303.5	2121.6	2028.4	1973.6
47°	3407.5	3436.7	3497.2	3532.7	3362.8	3066.7	2667.0	2330.2	2144.8	2050.2	1995.1
48°	3366.2	3402.5	3473.1	3526.1	3380.0	3092.1	2690.4	2357.2	2169.0	2072.4	2016.8
49°	3319.1	3363.7	3446.8	3518.5	3395.0	3116.8	2712.8	2384.5	2194.0	2095.9	2039.1
50°	3268.3	3320.0	3415.0	3505.9	3408.4	3141.1	2734.5	2411.6	2219.1	2119.6	2062.5
51°	3211.0	3272.2	3380.1	3490.8	3419.9	3163.3	2756.3	2439.0	2245.4	2145.1	2086.0
52°	3150.2	3218.0	3340.2	3470.9	3429.1	3183.7	2776.7	2467.5	2272.4	2171.5	2111.4
53°	3085.5	3160.3	3297.8	3447.1	3435.8	3202.3	2795.9	2494.5	2299.8	2197.7	2135.6
54°	3018.5	3096.6	3250.4	3420.8	3438.4	3218.6	2814.3	2520.8	2328.8	2224.9	2161.7
55°	2947.8	3028.7	3198.0	3389.8	3437.0	3231.9	2830.3	2544.5	2358.1	2253.6	2188.4
56°	2872.6	2959.6	3141.0	3354.6	3432.4	3242.0	2844.8	2567.5	2387.5	2283.1	2215.7
57°	2799.5	2887.1	3083.0	3316.5	3422.0	3248.4	2857.8	2588.5	2417.1	2314.1	2243.8
58°	2722.1	2813.5	3020.8	3274.3	3406.2	3249.5	2866.5	2607.5	2446.7	2346.4	2270.3
59°	2645.7	2738.6	2958.4	3227.3	3385.2	3244.9	2871.6	2624.6	2476.5	2380.4	2296.4
60°	2563.6	2663.1	2892.7	3176.7	3358.5	3234.8	2874.1	2639.1	2506.3	2414.9	2322.3
61°	2478.4	2583.7	2827.1	3124.3	3325.7	3220.0	2871.3	2650.8	2536.1	2449.8	2348.3
62°	2389.4	2502.8	2762.0	3067.9	3288.6	3197.2	2863.2	2659.1	2564.9	2484.4	2373.8
63°	2301.6	2421.4	2697.6	3008.9	3247.2	3166.0	2848.2	2663.8	2593.1	2518.4	2398.5
64°	2219.0	2342.3	2633.8	2949.0	3198.5	3126.5	2826.2	2664.8	2620.8	2552.5	2422.1
65°	2152.3	2270.1	2571.6	2887.7	3145.8	3079.6	2798.5	2660.4	2647.3	2587.0	2444.5
66°	2103.3	2210.6	2511.8	2826.7	3086.4	3023.2	2760.8	2649.3	2670.4	2625.0	2464.8
67°	2075.5	2167.2	2457.7	2766.6	3018.8	2959.8	2712.3	2631.1	2689.8	2660.8	2483.6
68°	2046.6	2137.4	2410.5	2707.2	2944.0	2885.4	2627.2	2599.2	2704.2	2694.6	2482.8
69°	1980.6	2108.6	2372.2	2648.1	2860.6	2787.5	2490.9	2536.1	2709.5	2724.9	2472.7
70°	1850.4	2055.4	2341.9	2588.4	2773.1	2650.7	2302.1	2431.1	2706.0	2749.6	2474.4
71°	1653.1	1950.4	2314.5	2531.7	2668.7	2473.0	2071.9	2279.3	2680.4	2765.3	2460.1
72°	1440.0	1779.2	2281.9	2473.1	2541.0	2262.3	1854.3	2103.5	2618.1	2759.0	2431.0
73°	1220.0	1557.7	2230.2	2410.3	2392.6	2047.1	1671.4	1929.1	2519.8	2725.4	2391.3
74°	966.2	1319.1	2129.4	2334.7	2226.0	1837.5	1453.2	1763.7	2393.3	2663.0	2313.1
75°	648.0	1061.7	1951.9	2225.1	2036.9	1606.8	1105.2	1569.8	2251.2	2565.8	2195.8
76°	352.7	753.4	1712.6	2065.5	1839.6	1291.8	757.1	1215.3	2110.8	2408.1	2036.9
77°	230.7	420.5	1455.8	1837.3	1624.3	875.5	411.9	860.7	1952.2	2177.0	1848.8
78°	109.7	309.7	1147.1	1522.3	1351.5	479.9	199.9	508.2	1716.7	1862.6	1617.8
79°	87.4	200.9	756.5	1153.4	1000.4	356.2	124.6	247.7	1301.2	1519.3	1358.0
80°	75.3	92.1	400.0	760.9	612.8	240.1	107.7	137.9	885.7	1212.7	1116.4
81°	64.8	77.8	255.5	398.3	437.5	124.1	90.9	115.4	471.7	958.8	1012.7
82°	55.3	66.2	113.9	256.5	269.4	104.7	74.1	93.0	226.5	706.6	856.3
83°	46.6	55.4	91.5	116.4	101.3	86.2	62.5	70.5	149.0	529.2	699.9
84°	38.7	45.6	74.1	91.2	81.2	66.7	51.4	57.0	119.6	372.5	541.8
85°	30.7	37.4	56.6	75.2	62.6	51.2	40.7	45.4	97.9	240.3	335.0
86°	22.8	29.2	42.4	60.3	46.0	40.3	30.8	35.3	76.3	172.6	236.7
87°	15.6	21.0	30.7	44.0	34.0	29.5	21.4	26.2	55.7	104.9	138.4
88°	9.0	13.7	19.0	35.3	21.9	18.6	14.9	20.0	36.8	38.8	41.2
89°	3.8	6.0	8.0	26.8	9.9	9.4	8.3	13.8	25.0	26.3	27.9

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CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
1°	1640.6	1640.4	1641.8	1646.1	1650.4	1656.6	1663.1	1664.5	1671.0	1677.9	1683.5
2°	1619.8	1619.0	1622.1	1628.3	1636.8	1647.1	1660.0	1667.9	1682.1	1695.8	1707.7
3°	1601.7	1600.5	1604.5	1612.8	1624.9	1640.4	1658.8	1673.5	1694.4	1715.9	1735.1
4°	1586.5	1585.2	1589.9	1600.1	1615.5	1635.3	1659.1	1680.3	1708.7	1738.1	1765.1
5°	1573.7	1571.7	1577.5	1589.7	1607.7	1632.0	1660.7	1688.6	1725.4	1763.0	1797.2
6°	1563.0	1560.7	1567.3	1580.9	1602.3	1630.1	1663.9	1698.7	1743.2	1789.9	1834.2
7°	1553.7	1551.6	1558.4	1574.0	1597.9	1630.0	1669.2	1710.7	1763.4	1820.1	1874.2
8°	1547.0	1544.4	1552.1	1569.1	1595.3	1631.2	1675.7	1723.5	1784.9	1852.8	1917.4
9°	1541.3	1538.8	1547.1	1566.0	1594.3	1633.7	1683.2	1737.8	1808.6	1887.8	1963.5
10°	1537.6	1534.9	1544.0	1564.3	1594.8	1637.1	1691.6	1753.5	1833.6	1924.8	2013.4
11°	1535.9	1532.8	1542.7	1564.6	1597.3	1642.0	1701.9	1771.1	1861.8	1964.7	2067.7
12°	1535.3	1532.4	1542.9	1566.4	1601.1	1648.6	1713.4	1789.5	1890.6	2007.2	2123.9
13°	1536.7	1533.0	1544.0	1569.3	1605.8	1656.0	1725.9	1809.2	1921.0	2052.1	2185.4
14°	1538.1	1535.0	1546.8	1573.4	1612.2	1664.5	1738.8	1829.5	1952.8	2099.3	2250.0
15°	1541.0	1537.5	1550.4	1578.3	1619.6	1674.3	1752.4	1850.5	1985.6	2149.2	2319.7
16°	1544.4	1540.9	1554.2	1583.3	1627.0	1684.8	1766.9	1873.1	2020.2	2202.3	2392.5
17°	1548.2	1544.8	1558.9	1589.6	1635.6	1696.2	1782.5	1896.4	2056.6	2257.3	2466.7
18°	1553.0	1549.4	1564.7	1595.9	1644.7	1707.4	1798.2	1920.3	2093.2	2315.0	2542.5
19°	1558.2	1555.0	1570.5	1603.3	1653.7	1720.0	1814.9	1944.9	2131.3	2373.7	2617.3
20°	1565.0	1561.5	1577.7	1611.5	1663.4	1732.6	1832.3	1970.4	2172.2	2432.9	2688.9
21°	1572.4	1569.3	1585.6	1620.5	1673.2	1745.9	1850.9	1997.1	2212.6	2494.6	2758.5
22°	1580.5	1577.3	1594.6	1630.3	1684.0	1760.0	1869.8	2024.5	2256.4	2553.9	2825.3
23°	1589.6	1586.9	1604.3	1640.8	1695.8	1774.8	1888.7	2052.9	2301.7	2612.7	2888.9
24°	1599.2	1597.5	1615.0	1652.2	1707.9	1789.4	1908.2	2081.9	2346.4	2668.7	2948.1
25°	1609.8	1608.4	1626.5	1664.1	1721.3	1805.0	1928.6	2110.7	2391.9	2723.5	3004.6
26°	1621.4	1620.7	1638.8	1676.4	1735.0	1820.5	1948.9	2140.9	2437.9	2774.5	3059.2
27°	1633.1	1633.9	1651.7	1689.2	1749.2	1835.9	1969.5	2171.5	2484.1	2823.8	3109.7
28°	1645.5	1648.8	1665.1	1703.1	1764.0	1852.6	1990.3	2203.5	2529.8	2871.1	3158.7
29°	1659.0	1664.2	1679.3	1717.1	1779.4	1869.2	2011.6	2234.6	2573.9	2915.9	3205.5
30°	1673.5	1680.9	1694.6	1731.5	1794.2	1886.5	2032.5	2266.4	2618.0	2958.4	3249.2
31°	1688.8	1697.9	1710.6	1746.3	1810.2	1903.7	2053.4	2298.2	2660.0	2998.2	3290.1
32°	1704.6	1716.2	1726.7	1762.5	1826.9	1921.8	2074.9	2330.5	2700.2	3036.2	3328.7
33°	1721.2	1734.6	1743.2	1778.4	1843.4	1939.8	2096.0	2362.9	2739.7	3073.9	3365.6
34°	1737.6	1753.2	1759.7	1795.1	1860.8	1958.0	2117.4	2395.3	2776.2	3109.0	3399.8
35°	1754.1	1772.3	1776.2	1812.5	1878.1	1977.1	2138.9	2428.0	2812.7	3143.9	3430.4
36°	1771.2	1791.7	1792.7	1830.3	1895.6	1996.0	2161.8	2461.3	2847.9	3175.4	3458.8
37°	1786.9	1810.7	1809.7	1848.0	1913.7	2015.7	2184.7	2493.3	2881.4	3206.5	3484.3
38°	1804.3	1830.6	1827.5	1867.0	1932.2	2034.9	2208.4	2526.0	2914.6	3235.8	3508.1
39°	1821.7	1849.9	1845.2	1885.7	1951.0	2055.7	2232.2	2557.2	2945.5	3263.8	3528.2
40°	1839.6	1868.7	1863.8	1904.9	1970.7	2075.6	2256.3	2587.8	2975.3	3290.3	3545.8
41°	1858.2	1886.5	1882.4	1924.4	1990.7	2096.2	2280.7	2618.1	3003.8	3315.2	3558.9
42°	1876.7	1904.4	1901.7	1943.5	2011.8	2118.0	2305.6	2646.8	3032.8	3340.1	3569.2
43°	1895.4	1921.8	1921.6	1964.7	2032.4	2140.4	2332.1	2675.0	3061.1	3362.1	3577.9
44°	1915.2	1939.9	1942.1	1985.4	2053.9	2164.1	2358.6	2702.9	3089.0	3382.3	3582.3

REPORT NUMBER: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1935.6	1958.0	1962.6	2007.0	2076.3	2186.7	2385.5	2730.1	3115.4	3401.8	3584.5
46°	1956.3	1974.9	1983.7	2028.1	2098.6	2211.0	2412.1	2755.2	3140.8	3419.2	3582.7
47°	1978.1	1991.5	2006.0	2049.7	2121.9	2234.6	2439.3	2778.2	3165.4	3435.4	3578.0
48°	2000.3	2009.2	2028.8	2071.9	2145.4	2259.4	2466.3	2801.1	3187.8	3448.8	3570.7
49°	2023.4	2027.6	2051.6	2093.8	2169.2	2284.7	2492.4	2822.7	3209.1	3460.7	3559.9
50°	2046.8	2045.2	2075.4	2116.8	2194.1	2311.3	2518.6	2843.2	3227.5	3471.4	3546.6
51°	2071.9	2063.7	2099.5	2140.2	2218.6	2337.2	2544.2	2861.7	3244.8	3478.5	3529.1
52°	2096.2	2081.5	2123.5	2164.6	2245.4	2363.3	2569.3	2878.7	3258.8	3482.9	3507.2
53°	2118.8	2095.6	2145.4	2189.0	2272.1	2390.1	2592.0	2894.0	3269.4	3483.7	3482.1
54°	2138.3	2105.6	2165.7	2214.5	2300.3	2416.4	2613.8	2905.8	3277.6	3482.9	3454.0
55°	2155.9	2116.3	2183.4	2240.6	2328.4	2443.1	2633.7	2915.6	3281.9	3476.5	3423.3
56°	2174.2	2129.3	2200.7	2267.4	2358.7	2470.3	2650.6	2923.2	3281.5	3466.4	3387.7
57°	2191.6	2143.1	2218.4	2293.7	2388.4	2497.7	2666.6	2927.2	3275.9	3450.5	3348.2
58°	2208.7	2153.1	2235.3	2322.3	2419.6	2523.9	2679.4	2929.0	3265.4	3430.3	3304.2
59°	2222.6	2160.5	2249.1	2348.8	2452.4	2549.0	2689.6	2927.6	3249.8	3404.8	3256.6
60°	2234.5	2169.3	2261.0	2375.6	2485.8	2573.8	2698.3	2921.9	3229.3	3374.0	3204.7
61°	2246.8	2177.8	2273.5	2400.8	2519.9	2598.9	2703.9	2909.7	3204.1	3337.1	3149.5
62°	2258.8	2183.2	2285.3	2427.3	2552.4	2624.4	2705.8	2891.5	3172.3	3294.5	3091.5
63°	2268.1	2187.5	2295.8	2452.5	2583.7	2647.7	2704.3	2868.2	3132.4	3246.0	3031.3
64°	2276.1	2189.3	2305.2	2476.4	2615.1	2669.5	2699.6	2838.2	3086.6	3193.7	2970.5
65°	2276.8	2172.7	2305.9	2498.7	2646.6	2688.8	2687.8	2799.1	3032.2	3134.2	2906.8
66°	2255.3	2158.6	2282.4	2517.1	2677.7	2703.8	2670.4	2750.0	2969.5	3067.9	2842.2
67°	2243.1	2151.4	2269.8	2531.3	2705.3	2715.9	2642.4	2678.0	2899.0	2995.6	2779.3
68°	2238.1	2124.4	2261.0	2525.7	2731.5	2722.3	2590.1	2555.6	2807.9	2917.3	2715.4
69°	2205.9	2047.9	2225.9	2511.5	2753.2	2717.7	2495.7	2376.2	2677.5	2828.1	2652.0
70°	2142.7	1908.8	2163.4	2509.8	2769.8	2698.4	2347.5	2144.8	2503.8	2725.7	2588.3
71°	2042.0	1703.7	2063.3	2492.0	2772.7	2649.8	2161.0	1906.7	2287.0	2601.8	2520.1
72°	1880.8	1512.7	1903.3	2462.5	2753.3	2562.9	1964.6	1696.6	2056.3	2451.3	2449.0
73°	1681.7	1331.5	1698.1	2416.8	2702.5	2437.5	1778.1	1489.8	1833.6	2277.2	2367.4
74°	1486.4	1129.1	1509.6	2334.8	2619.7	2296.1	1587.2	1227.6	1607.2	2079.3	2271.8
75°	1281.0	859.8	1309.2	2208.6	2494.9	2140.0	1330.0	853.5	1334.4	1861.8	2136.6
76°	1034.0	621.1	1060.5	2042.1	2302.3	1973.5	956.5	483.3	961.7	1634.2	1950.7
77°	795.8	565.8	840.6	1850.6	2041.0	1772.7	585.5	354.1	562.5	1384.1	1694.3
78°	748.7	737.9	816.1	1613.6	1720.5	1458.2	288.9	231.8	416.2	1074.5	1354.7
79°	922.6	701.8	982.5	1339.3	1405.6	1013.9	153.8	109.5	276.4	711.6	978.4
80°	1078.3	665.8	839.7	1068.9	1140.9	572.7	127.8	93.4	136.6	401.9	602.0
81°	841.6	626.4	697.0	970.1	876.2	275.1	101.8	80.0	113.3	261.2	434.8
82°	604.8	359.6	551.9	802.0	611.6	162.7	75.9	67.7	96.4	121.3	272.2
83°	344.6	255.6	312.6	633.9	423.1	125.8	63.1	56.5	78.7	92.3	109.6
84°	194.4	151.7	188.8	465.1	256.4	103.2	51.4	45.8	61.4	73.9	86.7
85°	129.0	49.1	151.7	260.8	187.0	80.6	40.9	36.3	46.9	55.9	71.5
86°	64.0	33.3	114.6	208.8	117.6	58.2	31.4	26.9	36.4	40.6	57.1
87°	44.5	17.4	77.5	156.8	49.0	41.1	23.0	17.5	26.0	29.2	40.0
88°	24.9	1.6	40.4	104.8	33.3	28.0	15.9	9.9	15.5	17.7	23.4
89°	5.5	1.0	3.6	52.8	17.5	14.9	8.7	3.7	6.7	7.1	6.8

REPORT NUMBER: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1664.8	1664.8	1664.8
1°	1688.3	1691.6	1693.1
2°	1717.8	1724.5	1725.8
3°	1750.0	1759.7	1762.6
4°	1785.9	1800.3	1803.6
5°	1826.2	1844.9	1849.8
6°	1870.9	1894.0	1900.7
7°	1918.6	1948.2	1956.1
8°	1970.2	2006.2	2016.7
9°	2027.3	2068.5	2082.2
10°	2087.8	2137.4	2152.9
11°	2153.8	2213.3	2229.9
12°	2225.3	2292.4	2312.8
13°	2302.1	2378.5	2400.7
14°	2383.3	2471.3	2498.0
15°	2468.2	2567.5	2601.5
16°	2555.3	2667.8	2708.2
17°	2645.4	2770.1	2814.7
18°	2733.9	2871.6	2919.6
19°	2819.9	2967.7	3018.2
20°	2903.0	3059.1	3109.0
21°	2980.7	3141.8	3190.8
22°	3053.5	3215.8	3261.4
23°	3123.0	3281.6	3325.3
24°	3187.3	3340.8	3381.5
25°	3247.9	3391.8	3429.8
26°	3302.2	3437.1	3471.4
27°	3352.7	3475.6	3508.8
28°	3397.4	3509.1	3540.4
29°	3437.9	3537.3	3566.6
30°	3472.3	3561.4	3587.3
31°	3503.9	3579.7	3604.2
32°	3530.6	3595.4	3616.5
33°	3553.4	3606.2	3625.8
34°	3572.0	3613.3	3630.1
35°	3587.7	3616.1	3632.0
36°	3599.6	3616.0	3630.9
37°	3607.2	3613.5	3625.9
38°	3612.1	3608.0	3618.4
39°	3613.7	3600.6	3609.2
40°	3612.6	3590.6	3597.0
41°	3608.1	3578.4	3580.2
42°	3600.8	3563.9	3561.7
43°	3590.7	3547.7	3539.2
44°	3577.3	3527.6	3512.8

REPORT NUMBER: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3562.1	3505.1	3482.2
46°	3543.5	3478.6	3446.2
47°	3522.5	3448.3	3407.5
48°	3498.7	3415.0	3366.2
49°	3471.8	3376.3	3319.1
50°	3441.2	3335.0	3268.3
51°	3406.1	3288.7	3211.0
52°	3366.6	3235.7	3150.2
53°	3322.6	3179.2	3085.5
54°	3276.4	3118.6	3018.5
55°	3226.2	3052.2	2947.8
56°	3170.8	2983.6	2872.6
57°	3112.2	2912.4	2799.5
58°	3049.8	2837.5	2722.1
59°	2986.8	2762.8	2645.7
60°	2923.0	2686.0	2563.6
61°	2856.9	2606.9	2478.4
62°	2792.6	2526.9	2389.4
63°	2728.9	2446.1	2301.6
64°	2667.3	2371.4	2219.0
65°	2608.2	2300.3	2152.3
66°	2552.2	2242.3	2103.3
67°	2499.0	2199.6	2075.5
68°	2451.1	2170.2	2046.6
69°	2409.5	2139.8	1980.6
70°	2377.8	2089.0	1850.4
71°	2345.1	1991.4	1653.1
72°	2303.5	1819.5	1440.0
73°	2239.4	1594.3	1220.0
74°	2122.8	1344.7	966.2
75°	1938.9	1082.3	648.0
76°	1698.8	783.0	352.7
77°	1430.2	449.9	230.7
78°	1094.1	332.2	109.7
79°	701.7	214.5	87.4
80°	374.3	96.9	75.3
81°	245.4	80.2	64.8
82°	118.2	68.1	55.3
83°	91.2	57.2	46.6
84°	73.3	47.2	38.7
85°	55.6	38.6	30.7
86°	41.4	30.1	22.8
87°	29.6	21.5	15.6
88°	17.8	13.6	9.0
89°	7.0	5.8	3.8

REPORT NUMBER: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445034

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)