

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: P1436765

Luminaire Tested: XAS180-SFPM (5000K-72W-T3)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436765
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-T3)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 3
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

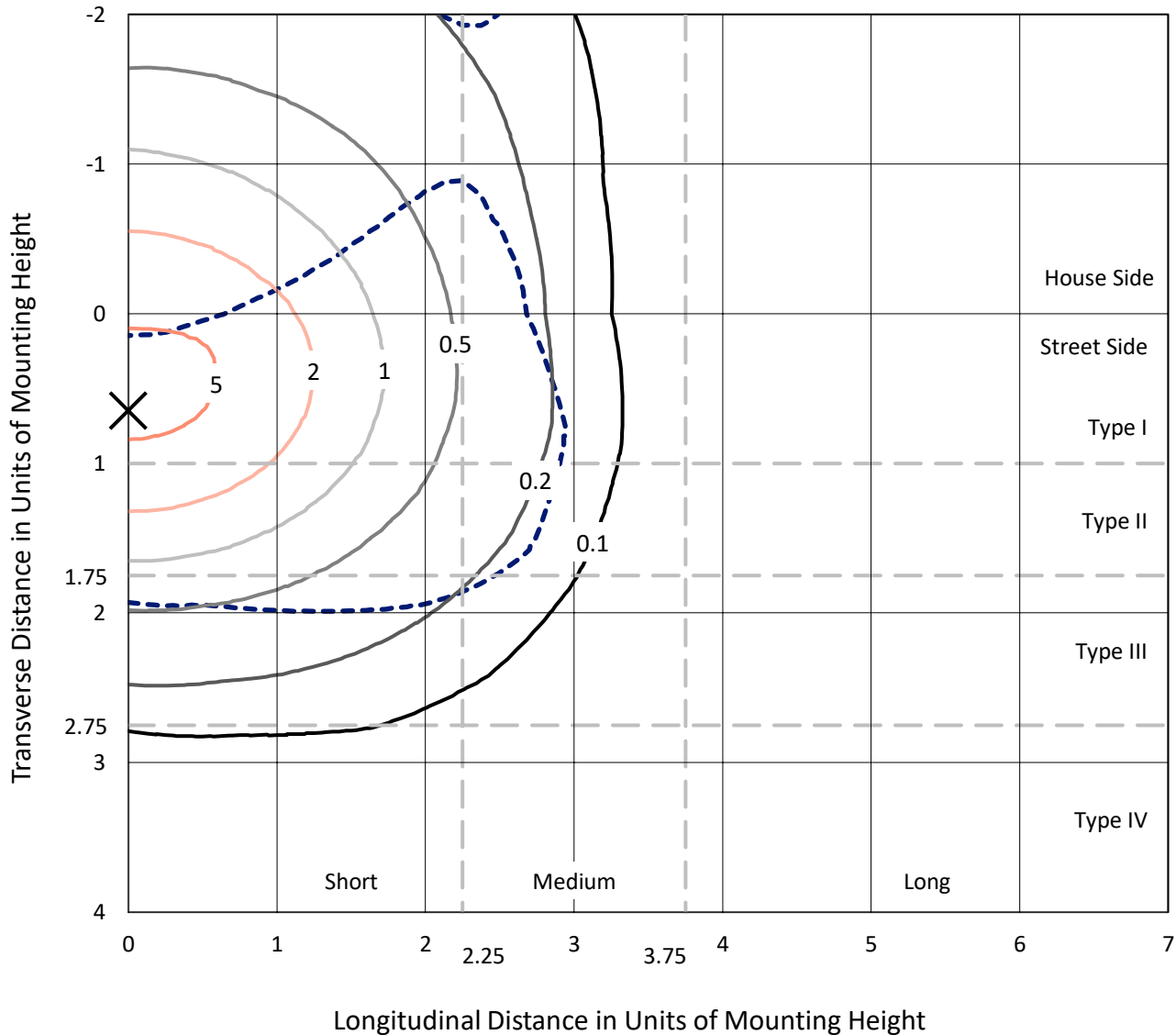
Lumens per Lamp: 27928 (1 lamp)
Luminaire Lumens: 12160 lumens
Efficiency: 43.5%
Efficacy: 166.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.35m x L: 0.35m x H: 0.35m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (A_{in}): 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

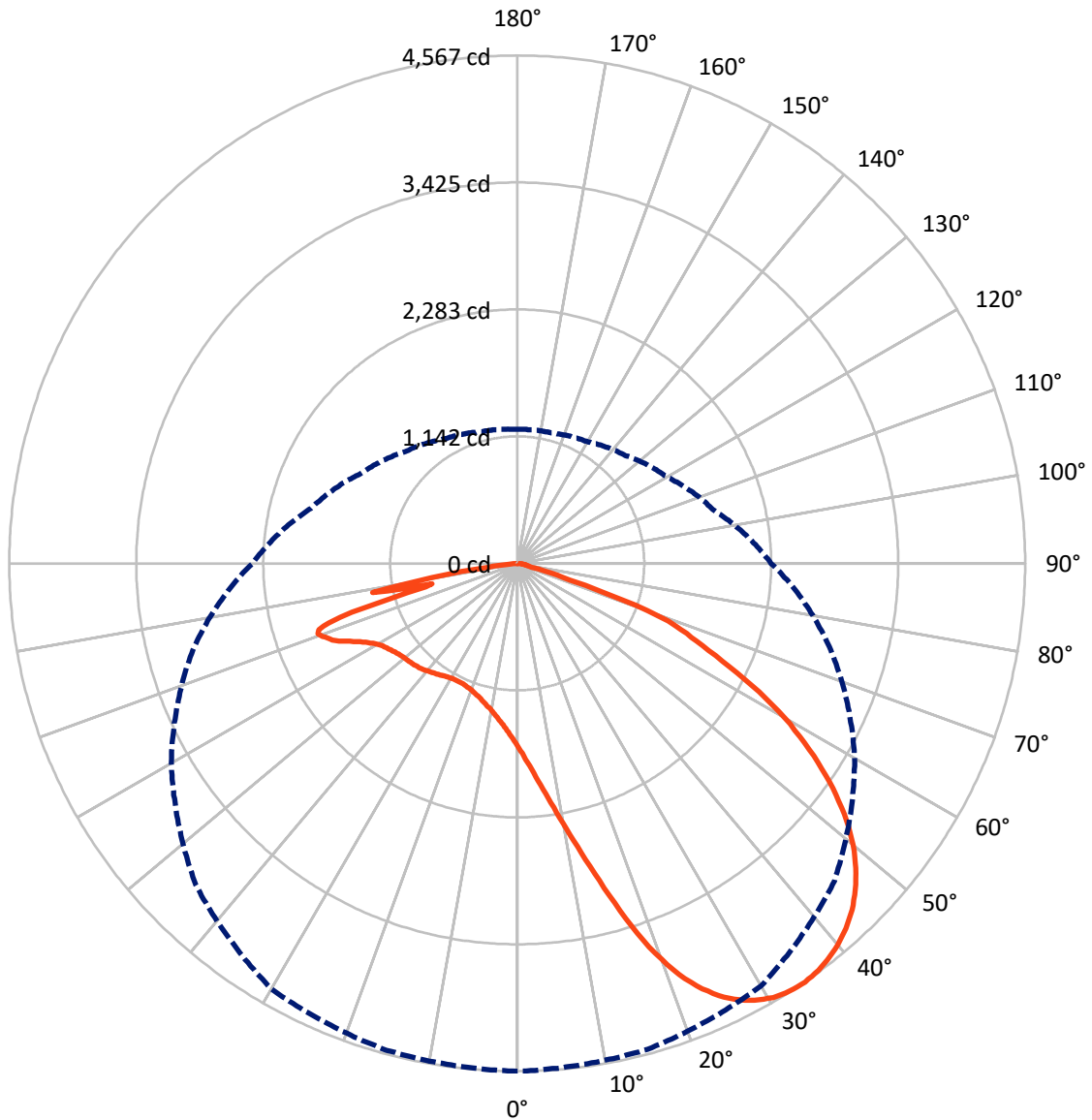
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 33-Deg Vertical

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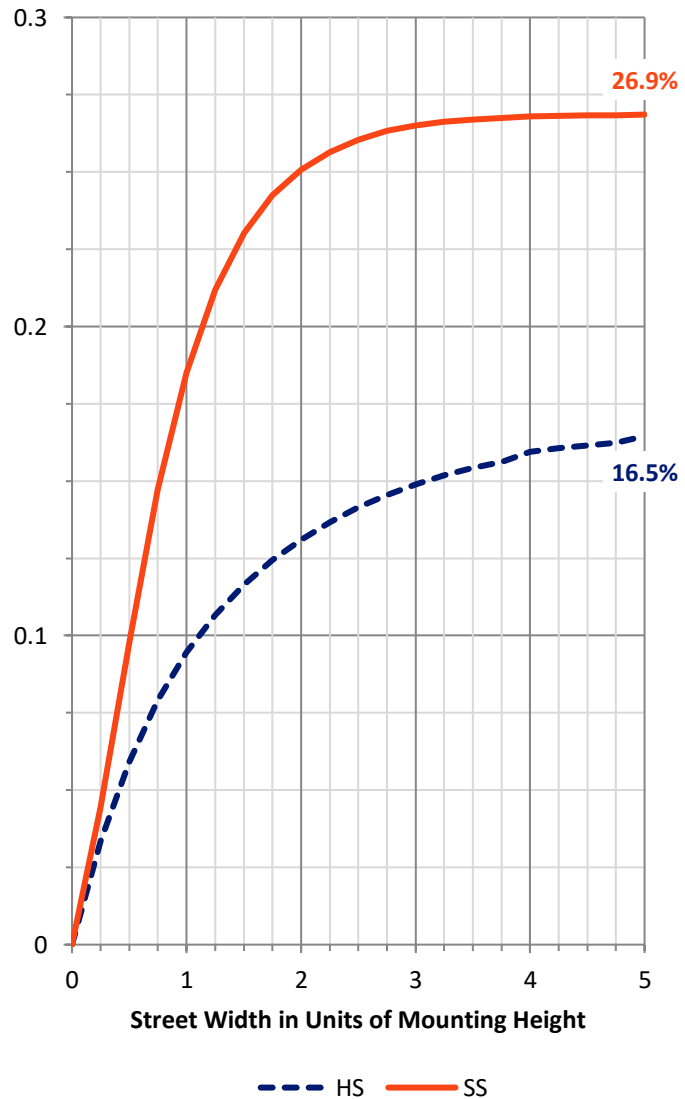
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4653.0	0.0	4653.0
	% Lamp	16.7	0.0	16.7
Street Side	Lumens	7507.0	0.0	7507.0
	% Lamp	26.9	0.0	26.9
Total	Lumens	12160.0	0.0	12160.0
	% Lamp	43.5	0.0	43.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	165.9	1.4	0.6
10°-20°	578.0	4.8	2.1
20°-30°	1135.6	9.3	4.1
30°-40°	1700.1	14.0	6.1
40°-50°	2164.6	17.8	7.8
50°-60°	2420.1	19.9	8.7
60°-70°	2338.2	19.2	8.4
70°-80°	1458.2	12.0	5.2
80°-90°	199.4	1.6	0.7
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°	12160.0	100.0	43.5
0°-180°	12160.0	100.0	43.5

Coefficient of Utilization



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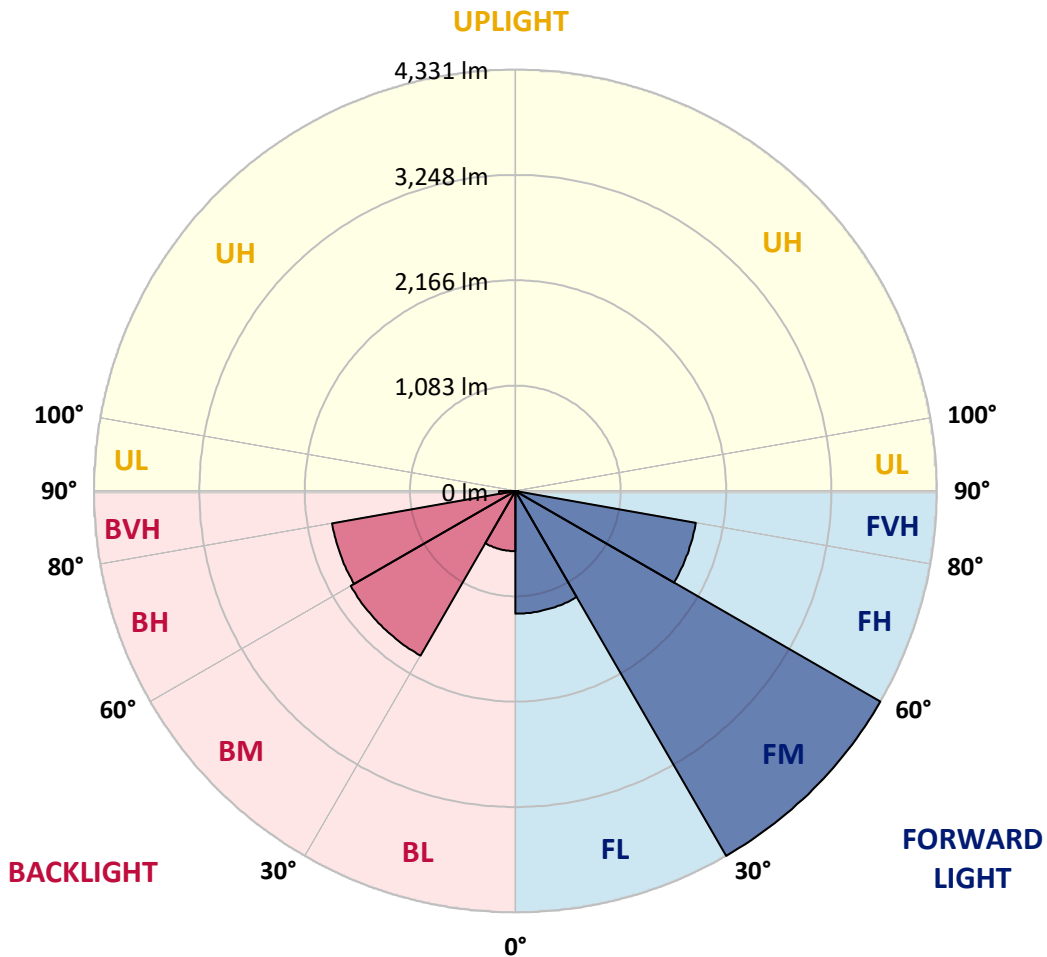
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.9	4.5			
FM (30°-60°)	4331.3	15.5			
FH (60°-80°)	1883.2	6.7			G2/5000
FVH (80°-90°)	31.6	0.1			G1/100
BL (0°-30°)	618.6	2.2	B2/1000		
BM (30°-60°)	1953.5	7.0	B2/2500		
BH (60°-80°)	1913.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	167.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	15768.0	56.5			

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
1°	1709.0	1707.7	1704.3	1697.1	1687.9	1676.6	1655.5	1643.3	1632.6	1623.9	1618.8
2°	1764.1	1761.1	1752.2	1735.1	1714.5	1690.0	1656.3	1632.4	1611.7	1594.4	1582.8
3°	1824.5	1819.4	1802.5	1776.3	1743.2	1705.8	1659.3	1623.7	1592.8	1568.1	1549.7
4°	1891.4	1883.5	1857.9	1820.8	1774.8	1723.3	1662.9	1616.2	1575.8	1543.4	1520.3
5°	1963.8	1953.4	1919.2	1869.1	1807.9	1741.8	1667.9	1610.0	1560.3	1521.7	1493.8
6°	2043.4	2028.0	1985.3	1922.1	1845.0	1762.8	1674.2	1605.1	1546.7	1501.7	1468.7
7°	2127.9	2109.7	2057.8	1978.9	1884.4	1786.0	1683.4	1603.0	1535.0	1483.3	1445.7
8°	2220.5	2196.9	2134.6	2039.5	1927.1	1811.4	1693.7	1602.1	1525.3	1466.4	1425.0
9°	2321.0	2292.4	2217.4	2104.6	1973.4	1838.5	1705.4	1602.3	1516.9	1451.3	1405.4
10°	2428.5	2393.8	2305.8	2174.2	2022.3	1868.0	1719.2	1603.8	1510.0	1438.2	1387.4
11°	2543.3	2504.2	2400.1	2249.1	2073.3	1899.0	1734.6	1607.0	1504.0	1426.3	1372.0
12°	2667.7	2621.3	2500.4	2327.0	2127.0	1932.3	1750.8	1611.1	1499.3	1415.8	1358.0
13°	2801.5	2747.7	2609.7	2410.0	2185.0	1967.1	1767.5	1616.1	1495.8	1406.4	1345.5
14°	2945.7	2885.3	2727.3	2499.1	2244.6	2003.4	1785.2	1621.0	1492.4	1398.3	1333.4
15°	3099.5	3028.5	2850.5	2592.2	2307.9	2040.9	1803.7	1626.7	1490.1	1391.2	1322.1
16°	3259.1	3180.3	2976.8	2692.5	2375.3	2080.2	1824.1	1633.6	1488.4	1384.4	1311.8
17°	3417.6	3329.3	3103.5	2794.8	2444.2	2121.1	1845.1	1641.2	1487.9	1378.2	1302.2
18°	3573.8	3476.6	3229.6	2897.6	2517.0	2163.2	1867.2	1649.6	1487.5	1372.7	1293.3
19°	3719.6	3616.7	3354.5	2997.2	2593.4	2207.0	1889.9	1659.0	1487.5	1368.0	1286.0
20°	3853.3	3749.2	3474.1	3096.5	2670.7	2252.5	1913.8	1669.2	1487.8	1363.7	1279.9
21°	3972.9	3869.6	3589.5	3194.8	2747.2	2299.6	1938.2	1680.1	1488.8	1359.7	1274.4
22°	4078.0	3977.4	3695.3	3287.7	2822.4	2349.2	1963.4	1690.6	1491.2	1356.7	1269.7
23°	4170.8	4073.9	3794.9	3377.4	2897.7	2399.2	1989.6	1701.8	1493.6	1354.5	1265.8
24°	4251.0	4159.7	3887.4	3462.0	2971.1	2451.1	2016.7	1714.1	1496.7	1353.1	1262.0
25°	4320.2	4235.4	3972.0	3541.6	3041.7	2503.5	2043.5	1726.4	1500.3	1352.7	1259.2
26°	4378.9	4299.8	4048.5	3617.1	3110.7	2556.5	2071.1	1738.9	1504.8	1353.3	1256.8
27°	4428.6	4355.0	4117.9	3689.9	3175.7	2609.6	2100.0	1751.2	1510.0	1354.0	1255.1
28°	4469.5	4402.9	4179.5	3758.1	3237.8	2661.7	2129.3	1763.7	1515.6	1355.5	1254.2
29°	4503.5	4440.3	4233.9	3821.6	3296.2	2712.5	2159.6	1776.3	1522.0	1357.8	1254.2
30°	4529.6	4471.2	4281.7	3881.7	3353.3	2762.3	2189.8	1789.8	1529.0	1360.6	1254.7
31°	4547.9	4495.6	4322.0	3936.9	3405.3	2811.2	2220.6	1803.3	1536.7	1364.3	1256.2
32°	4560.5	4512.2	4355.4	3987.1	3455.1	2859.0	2251.9	1817.5	1544.9	1368.5	1258.8
33°	4566.6	4522.6	4385.0	4034.2	3502.0	2905.8	2283.0	1832.4	1553.6	1372.9	1262.2
34°	4566.6	4527.0	4407.7	4076.4	3545.8	2950.1	2313.9	1846.8	1563.1	1378.2	1266.3
35°	4561.8	4526.1	4424.2	4114.2	3587.1	2992.1	2345.3	1862.4	1572.7	1384.4	1271.5
36°	4551.4	4520.4	4434.7	4147.7	3626.1	3033.3	2376.1	1878.3	1582.9	1391.2	1277.5
37°	4536.1	4510.4	4439.0	4176.4	3663.0	3072.8	2407.3	1894.3	1593.3	1399.1	1284.2
38°	4516.1	4496.1	4439.5	4200.0	3696.8	3110.2	2437.6	1911.1	1604.5	1407.5	1291.5
39°	4493.0	4478.2	4434.2	4220.3	3729.1	3146.5	2469.0	1928.1	1615.9	1416.8	1299.0
40°	4466.0	4456.0	4424.2	4236.1	3758.7	3180.9	2499.7	1946.3	1627.8	1426.8	1306.9
41°	4434.2	4429.0	4409.4	4247.7	3786.2	3213.6	2528.9	1965.4	1640.0	1437.1	1315.0
42°	4396.8	4399.8	4389.8	4255.7	3811.4	3244.9	2557.3	1984.1	1653.0	1448.2	1324.0
43°	4355.0	4364.6	4365.9	4258.4	3835.0	3275.3	2584.6	2003.4	1666.9	1460.2	1332.8
44°	4308.0	4324.2	4338.0	4256.3	3855.5	3304.1	2610.6	2023.7	1681.2	1472.3	1342.0



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4254.2	4280.4	4304.4	4249.5	3873.9	3331.5	2635.6	2044.0	1696.4	1484.8	1351.1
46°	4193.7	4229.9	4267.1	4238.9	3891.4	3359.5	2660.8	2065.7	1712.7	1497.1	1360.6
47°	4129.8	4173.3	4225.9	4223.3	3905.6	3384.3	2685.0	2087.0	1729.6	1509.8	1370.5
48°	4060.2	4110.9	4179.3	4201.3	3917.1	3407.3	2707.6	2109.9	1746.8	1523.4	1381.4
49°	3984.0	4040.4	4127.0	4176.1	3926.2	3427.9	2728.1	2133.1	1765.4	1537.9	1392.7
50°	3898.8	3962.9	4067.7	4144.4	3931.5	3446.6	2748.1	2156.7	1784.6	1552.8	1405.2
51°	3805.5	3877.1	4002.9	4106.4	3933.1	3462.4	2767.8	2181.5	1804.7	1569.2	1418.4
52°	3705.0	3785.3	3930.6	4061.0	3930.4	3475.6	2785.5	2207.1	1825.8	1586.1	1431.9
53°	3598.0	3684.5	3853.4	4010.8	3923.2	3485.8	2801.7	2231.8	1847.9	1604.1	1446.3
54°	3485.2	3574.2	3767.0	3953.6	3909.7	3493.7	2815.4	2255.6	1871.9	1623.4	1461.5
55°	3366.0	3460.7	3674.0	3890.2	3889.7	3498.3	2827.6	2277.8	1896.9	1644.1	1478.4
56°	3241.7	3338.1	3572.5	3819.0	3863.4	3497.8	2837.1	2298.2	1922.3	1666.9	1496.2
57°	3114.1	3216.3	3466.8	3742.4	3829.5	3491.6	2845.0	2317.5	1948.7	1690.7	1516.0
58°	2981.6	3085.6	3354.6	3657.4	3786.5	3480.3	2849.5	2335.1	1975.8	1718.1	1538.2
59°	2845.8	2954.1	3240.2	3565.0	3736.2	3462.3	2849.3	2351.1	2003.7	1747.6	1563.0
60°	2699.5	2817.1	3119.9	3467.7	3678.0	3437.0	2844.8	2366.2	2032.3	1778.2	1590.1
61°	2544.0	2674.9	2995.9	3362.5	3609.8	3405.0	2835.5	2378.0	2060.2	1811.2	1619.7
62°	2378.6	2525.3	2869.7	3252.0	3536.9	3364.1	2820.4	2385.7	2088.8	1846.5	1651.1
63°	2209.9	2368.1	2741.0	3136.0	3456.8	3313.9	2797.6	2389.2	2116.7	1885.6	1685.3
64°	2043.1	2211.7	2610.4	3016.5	3368.7	3254.6	2766.3	2387.8	2144.1	1926.4	1724.6
65°	1890.3	2056.3	2475.8	2895.0	3273.6	3185.0	2728.5	2381.3	2170.2	1969.7	1769.2
66°	1758.2	1913.8	2341.1	2773.4	3168.6	3106.6	2680.1	2366.3	2194.0	2017.6	1817.4
67°	1647.9	1787.2	2208.4	2652.8	3058.6	3016.0	2618.0	2344.0	2214.3	2066.6	1874.2
68°	1534.3	1673.9	2080.6	2531.0	2936.3	2914.8	2521.6	2308.4	2231.1	2117.1	1939.5
69°	1368.4	1558.7	1960.6	2409.4	2808.0	2795.9	2379.7	2235.3	2239.4	2171.4	2013.3
70°	1123.1	1410.3	1847.4	2287.3	2670.3	2646.1	2191.2	2119.4	2241.7	2228.3	2091.1
71°	795.8	1197.0	1736.6	2166.3	2515.4	2464.8	1961.0	1968.2	2227.2	2287.2	2149.3
72°	496.0	907.6	1613.5	2044.6	2339.7	2250.0	1745.8	1806.5	2188.9	2343.3	2206.5
73°	373.8	597.1	1469.0	1916.2	2143.3	2015.0	1558.2	1669.5	2123.6	2393.5	2282.0
74°	252.8	443.0	1273.3	1769.2	1927.5	1771.4	1330.4	1553.0	2044.4	2421.8	2352.2
75°	131.8	294.1	995.3	1581.9	1697.4	1508.4	1007.2	1390.4	1962.5	2433.6	2406.8
76°	112.5	145.2	692.8	1348.7	1458.9	1183.8	683.9	1072.9	1900.0	2401.6	2421.8
77°	97.4	119.8	444.1	1060.4	1210.0	802.8	361.0	755.6	1833.3	2321.3	2379.8
78°	85.3	102.2	340.9	713.8	938.7	461.4	190.8	439.0	1698.2	2155.1	2174.0
79°	75.0	88.4	240.6	384.9	657.4	349.8	128.1	223.7	1403.6	1921.9	1871.2
80°	65.5	76.7	140.3	257.1	403.1	244.0	111.0	136.3	960.0	1643.0	1556.8
81°	56.9	66.2	112.4	131.0	259.1	138.2	93.8	113.0	519.2	1264.7	1431.7
82°	48.9	56.8	94.6	108.2	119.1	117.4	76.8	89.8	247.6	1009.4	1379.6
83°	41.8	47.8	79.4	92.4	87.9	96.1	64.5	66.5	161.2	754.0	1074.9
84°	34.6	40.2	64.4	78.6	70.2	72.8	53.0	53.0	131.6	499.7	770.0
85°	27.4	32.6	48.5	65.5	54.2	54.8	41.8	41.5	109.2	314.3	465.7
86°	20.8	25.1	37.6	53.0	40.2	40.9	31.1	31.7	86.9	223.2	270.4
87°	14.4	18.4	26.8	39.5	29.3	29.9	21.4	23.2	64.4	132.1	216.5
88°	8.6	12.0	16.0	24.0	18.4	19.1	14.9	16.3	41.6	43.3	162.6
89°	4.0	5.7	7.2	8.4	8.7	9.3	8.3	9.5	28.2	29.2	108.7



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CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
1°	1615.1	1614.8	1617.9	1623.9	1632.3	1642.9	1654.4	1658.2	1670.4	1681.5	1692.2
2°	1576.2	1574.6	1579.4	1589.8	1605.0	1624.2	1646.7	1662.1	1686.7	1710.8	1732.1
3°	1539.9	1537.4	1543.6	1557.9	1580.0	1607.9	1640.4	1667.8	1704.6	1741.8	1775.3
4°	1507.1	1504.1	1511.9	1529.2	1556.9	1593.2	1636.1	1674.8	1725.3	1775.6	1822.1
5°	1477.7	1473.7	1482.0	1503.4	1536.4	1580.3	1632.6	1683.5	1746.9	1811.7	1872.6
6°	1449.9	1444.6	1454.4	1479.5	1518.1	1568.9	1631.0	1693.5	1771.2	1851.6	1926.9
7°	1424.1	1418.0	1429.1	1456.8	1500.8	1559.3	1631.1	1705.4	1797.3	1894.4	1986.0
8°	1400.7	1394.0	1405.4	1436.7	1485.8	1551.4	1632.4	1718.7	1824.9	1939.5	2049.7
9°	1378.6	1371.1	1384.0	1417.9	1471.6	1544.3	1634.4	1732.4	1855.1	1988.7	2117.8
10°	1358.8	1350.4	1364.6	1400.6	1459.0	1537.9	1637.8	1748.8	1887.6	2040.4	2188.9
11°	1341.0	1331.7	1347.1	1385.8	1448.2	1533.1	1642.6	1766.9	1922.3	2095.5	2266.4
12°	1324.6	1314.8	1330.7	1372.5	1438.6	1529.5	1648.7	1785.5	1957.7	2153.0	2347.2
13°	1309.7	1298.5	1315.5	1360.4	1430.8	1527.0	1656.3	1805.4	1995.6	2214.8	2436.2
14°	1295.1	1283.3	1301.4	1348.9	1424.0	1525.9	1664.1	1826.6	2035.5	2278.5	2529.1
15°	1281.9	1269.7	1288.4	1338.0	1418.5	1525.9	1672.2	1848.5	2076.7	2346.9	2628.2
16°	1269.6	1256.4	1276.2	1328.0	1412.8	1526.3	1681.3	1871.8	2119.6	2419.8	2732.2
17°	1258.6	1244.9	1265.3	1319.1	1407.8	1527.4	1691.4	1895.7	2164.6	2495.5	2839.0
18°	1248.5	1233.7	1255.1	1310.6	1403.8	1529.4	1702.0	1920.3	2211.3	2574.2	2947.5
19°	1239.3	1223.7	1245.7	1303.9	1399.6	1532.0	1713.8	1946.0	2259.8	2655.0	3054.3
20°	1230.9	1214.9	1237.2	1298.0	1396.1	1534.6	1726.2	1972.3	2309.8	2737.6	3159.3
21°	1224.1	1207.0	1230.4	1293.0	1393.2	1537.9	1739.2	2000.3	2361.5	2821.1	3259.5
22°	1217.8	1200.3	1224.2	1289.0	1391.8	1541.6	1752.6	2028.3	2415.7	2903.6	3353.4
23°	1212.4	1194.9	1219.2	1285.6	1390.8	1546.0	1766.3	2057.8	2472.6	2983.4	3443.4
24°	1207.8	1190.6	1215.2	1282.9	1390.8	1550.9	1780.1	2088.0	2530.5	3060.2	3527.2
25°	1204.7	1187.4	1212.6	1280.7	1391.5	1556.3	1794.1	2118.5	2588.0	3134.6	3606.4
26°	1202.4	1185.3	1211.0	1279.7	1392.7	1562.2	1809.3	2149.5	2646.0	3204.2	3681.1
27°	1200.8	1184.1	1209.9	1278.9	1394.9	1568.4	1823.7	2181.1	2704.3	3270.4	3752.0
28°	1200.3	1184.6	1210.1	1279.2	1397.7	1575.3	1839.0	2213.7	2761.8	3331.8	3818.2
29°	1200.9	1186.4	1211.5	1280.2	1401.3	1582.6	1854.2	2247.1	2817.7	3391.0	3881.0
30°	1202.5	1189.4	1214.3	1282.0	1405.2	1590.9	1870.0	2280.5	2871.7	3446.4	3938.3
31°	1205.1	1193.4	1217.5	1284.9	1409.8	1599.7	1885.4	2313.7	2923.9	3497.3	3992.2
32°	1208.4	1198.5	1221.4	1288.9	1415.5	1609.3	1901.3	2347.1	2973.1	3545.7	4041.1
33°	1212.4	1204.4	1225.7	1293.5	1421.7	1619.0	1916.9	2380.7	3020.4	3591.4	4087.1
34°	1216.9	1210.6	1230.2	1298.6	1428.2	1629.0	1933.5	2414.3	3065.5	3634.3	4128.1
35°	1221.6	1217.8	1235.1	1304.4	1435.6	1639.8	1950.3	2448.4	3108.2	3674.7	4165.2
36°	1226.3	1225.4	1240.3	1310.8	1443.0	1650.8	1968.3	2482.0	3149.5	3711.9	4197.8
37°	1231.3	1233.1	1245.7	1318.3	1451.1	1661.9	1986.2	2515.2	3187.5	3746.8	4225.9
38°	1236.1	1241.1	1251.8	1326.0	1460.1	1673.5	2005.0	2547.8	3224.5	3779.9	4250.8
39°	1241.1	1249.1	1257.8	1334.4	1469.6	1686.0	2024.1	2579.6	3258.4	3810.8	4270.2
40°	1246.6	1256.9	1264.1	1343.5	1479.8	1698.9	2044.0	2611.2	3290.8	3838.9	4285.5
41°	1252.1	1264.7	1270.4	1353.0	1490.3	1712.4	2063.8	2640.4	3322.1	3864.6	4295.1
42°	1257.4	1272.6	1277.1	1362.5	1501.7	1726.8	2084.0	2669.4	3352.3	3888.2	4299.6
43°	1263.3	1280.1	1284.2	1372.7	1513.4	1742.0	2105.3	2697.8	3381.1	3908.6	4300.7
44°	1269.9	1287.6	1292.2	1382.8	1525.7	1757.7	2127.0	2726.7	3407.9	3926.8	4297.3



REPORT NUMBER: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1276.9	1294.1	1300.4	1393.2	1538.6	1773.8	2148.9	2753.8	3433.0	3942.7	4287.7
46°	1284.5	1299.6	1308.8	1404.2	1552.2	1790.0	2171.4	2778.1	3455.1	3955.7	4273.2
47°	1292.6	1304.4	1318.0	1415.0	1566.1	1807.8	2194.1	2800.3	3475.5	3965.6	4253.4
48°	1301.7	1309.7	1327.6	1426.1	1581.2	1826.4	2216.4	2821.5	3492.7	3971.8	4228.8
49°	1311.8	1315.0	1337.8	1437.3	1596.1	1845.9	2239.4	2840.8	3506.9	3974.1	4198.8
50°	1323.1	1319.9	1349.3	1449.7	1612.1	1867.4	2263.0	2858.5	3518.1	3972.4	4164.1
51°	1336.1	1325.6	1361.5	1462.5	1628.7	1889.6	2286.4	2873.5	3526.4	3967.1	4122.6
52°	1349.9	1333.1	1374.8	1476.5	1646.8	1911.9	2309.9	2887.0	3531.4	3956.6	4074.4
53°	1363.9	1342.4	1388.8	1491.2	1666.3	1935.1	2331.0	2897.2	3533.1	3941.6	4020.8
54°	1378.8	1352.0	1404.6	1507.6	1687.8	1958.7	2351.4	2905.0	3530.9	3921.8	3961.7
55°	1395.9	1363.3	1421.8	1525.3	1711.0	1982.6	2369.6	2910.7	3523.8	3895.8	3896.0
56°	1414.2	1376.7	1439.6	1544.5	1735.8	2007.9	2386.0	2912.6	3510.0	3863.5	3823.1
57°	1433.2	1391.6	1459.0	1566.3	1762.4	2033.5	2400.7	2911.3	3490.6	3824.1	3744.0
58°	1452.4	1404.5	1479.0	1590.2	1790.2	2058.8	2413.2	2907.0	3465.7	3775.8	3656.4
59°	1471.1	1418.6	1498.1	1616.5	1821.3	2082.0	2422.5	2898.4	3435.9	3722.6	3563.7
60°	1492.1	1439.8	1519.6	1645.5	1853.0	2105.1	2430.6	2884.4	3399.1	3660.1	3463.8
61°	1519.5	1468.9	1547.8	1677.6	1887.2	2128.7	2435.4	2864.4	3355.2	3590.1	3356.8
62°	1551.5	1499.3	1581.2	1712.2	1922.5	2151.9	2436.3	2838.4	3303.7	3513.8	3245.0
63°	1587.6	1534.8	1617.7	1747.8	1960.3	2174.4	2432.2	2805.2	3244.2	3427.6	3130.2
64°	1629.2	1579.5	1661.5	1787.8	1999.4	2195.4	2424.7	2762.6	3177.4	3333.6	3010.4
65°	1677.6	1629.6	1711.0	1834.1	2041.5	2214.9	2410.3	2711.5	3099.6	3234.2	2888.6
66°	1733.8	1687.0	1766.5	1884.5	2084.5	2230.8	2387.6	2648.3	3011.3	3127.2	2766.2
67°	1794.8	1748.7	1825.8	1939.7	2126.9	2245.1	2354.4	2563.1	2914.3	3010.9	2643.8
68°	1859.9	1798.6	1887.7	2003.1	2171.7	2254.6	2294.0	2434.3	2798.5	2887.4	2519.7
69°	1900.0	1831.1	1924.2	2074.3	2221.7	2256.5	2190.9	2255.9	2657.7	2751.4	2397.1
70°	1934.2	1871.9	1956.6	2147.1	2271.5	2250.4	2040.9	2030.8	2482.1	2598.4	2271.8
71°	1982.7	1901.0	2001.7	2202.0	2322.9	2224.8	1865.1	1799.0	2266.0	2422.1	2140.7
72°	2013.8	1881.0	2029.9	2259.9	2369.9	2171.0	1704.5	1584.0	2024.0	2226.6	2007.7
73°	2004.4	1778.0	2021.3	2332.9	2407.1	2087.4	1563.2	1374.1	1771.7	2009.5	1860.6
74°	1940.8	1550.2	1960.3	2397.9	2418.0	1999.9	1408.4	1111.3	1521.8	1770.4	1692.3
75°	1756.3	1186.5	1785.2	2439.8	2399.9	1914.0	1105.9	766.6	1241.6	1518.2	1488.7
76°	1433.9	849.7	1469.3	2445.4	2323.0	1825.2	803.4	435.5	901.2	1269.6	1243.4
77°	1100.1	787.9	1165.8	2393.3	2209.5	1704.2	502.2	324.7	547.4	1023.2	945.6
78°	1056.4	1058.7	1154.5	2172.5	2031.4	1457.9	253.7	219.5	411.9	761.2	615.0
79°	1325.4	1326.3	1417.5	1839.1	1825.8	1063.8	146.0	114.4	282.0	498.2	450.3
80°	1546.0	1051.0	1576.5	1491.6	1540.2	669.7	121.3	97.0	152.1	367.1	287.6
81°	1190.8	775.6	1194.9	1380.3	1214.1	283.5	96.5	83.0	126.7	237.1	124.9
82°	835.5	501.0	813.3	1380.9	888.0	171.5	72.0	70.1	107.9	107.2	105.1
83°	481.6	257.7	437.4	1038.7	563.2	132.5	58.9	58.4	87.5	81.9	90.4
84°	267.9	181.1	258.2	696.4	330.8	109.4	47.4	47.1	67.2	65.1	76.6
85°	192.8	104.5	169.0	362.0	236.8	86.3	37.0	37.2	50.2	49.2	63.4
86°	117.7	29.9	109.7	289.5	142.8	63.3	28.1	27.4	38.8	37.9	50.7
87°	43.0	20.2	50.8	217.1	51.3	44.3	20.1	17.6	27.4	26.7	36.0
88°	29.1	10.4	27.5	144.7	34.7	30.1	13.9	9.9	16.0	15.4	21.2
89°	15.3	0.7	4.2	72.3	18.0	15.9	7.8	3.6	6.7	6.4	6.4



REPORT NUMBER: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1659.6	1659.6	1659.6
1°	1700.4	1706.1	1709.0
2°	1749.7	1760.2	1764.1
3°	1801.4	1819.1	1824.5
4°	1859.0	1883.7	1891.4
5°	1921.4	1953.1	1963.8
6°	1989.2	2029.7	2043.4
7°	2062.8	2112.0	2127.9
8°	2139.9	2200.0	2220.5
9°	2225.9	2296.5	2321.0
10°	2315.2	2400.1	2428.5
11°	2412.7	2512.2	2543.3
12°	2517.9	2630.4	2667.7
13°	2629.5	2760.0	2801.5
14°	2749.9	2898.5	2945.7
15°	2874.1	3041.3	3099.5
16°	3003.0	3189.6	3259.1
17°	3134.2	3341.3	3417.6
18°	3265.9	3492.3	3573.8
19°	3391.2	3634.9	3719.6
20°	3514.4	3767.3	3853.3
21°	3626.1	3890.5	3972.9
22°	3732.0	3998.9	4078.0
23°	3833.9	4095.6	4170.8
24°	3926.6	4179.5	4251.0
25°	4011.9	4253.5	4320.2
26°	4090.1	4316.6	4378.9
27°	4158.7	4369.8	4428.6
28°	4219.9	4414.6	4469.5
29°	4274.5	4452.5	4503.5
30°	4320.7	4481.7	4529.6
31°	4360.6	4504.3	4547.9
32°	4392.9	4521.3	4560.5
33°	4419.0	4531.8	4566.6
34°	4439.9	4536.1	4566.6
35°	4455.1	4534.4	4561.8
36°	4463.8	4527.4	4551.4
37°	4467.3	4516.1	4536.1
38°	4465.6	4500.8	4516.1
39°	4458.6	4482.1	4493.0
40°	4447.3	4459.5	4466.0
41°	4430.7	4432.9	4434.2
42°	4409.8	4402.4	4396.8
43°	4384.2	4367.6	4355.0
44°	4354.5	4329.9	4308.0



REPORT NUMBER: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4320.7	4286.0	4254.2
46°	4283.2	4236.4	4193.7
47°	4239.9	4181.4	4129.8
48°	4192.9	4120.5	4060.2
49°	4141.0	4050.7	3984.0
50°	4082.2	3976.1	3898.8
51°	4017.1	3892.1	3805.5
52°	3943.8	3801.0	3705.0
53°	3865.1	3701.9	3598.0
54°	3779.6	3594.4	3485.2
55°	3688.2	3480.4	3366.0
56°	3586.9	3359.4	3241.7
57°	3480.2	3233.5	3114.1
58°	3367.5	3102.3	2981.6
59°	3251.3	2968.2	2845.8
60°	3129.7	2832.7	2699.5
61°	3005.4	2688.4	2544.0
62°	2877.8	2537.8	2378.6
63°	2749.7	2385.4	2209.9
64°	2620.9	2229.9	2043.1
65°	2491.2	2078.0	1890.3
66°	2362.5	1936.3	1758.2
67°	2232.6	1810.4	1647.9
68°	2104.9	1698.7	1534.3
69°	1983.9	1582.2	1368.4
70°	1870.8	1439.9	1123.1
71°	1754.8	1237.3	795.8
72°	1624.7	956.0	496.0
73°	1471.2	645.1	373.8
74°	1257.4	376.0	252.8
75°	979.5	264.2	131.8
76°	692.6	153.5	112.5
77°	450.8	123.9	97.4
78°	347.2	105.3	85.3
79°	243.6	90.8	75.0
80°	140.0	78.6	65.5
81°	112.7	67.8	56.9
82°	94.1	58.1	48.9
83°	78.5	49.2	41.8
84°	63.2	41.5	34.6
85°	47.2	33.6	27.4
86°	36.4	25.8	20.8
87°	25.6	18.7	14.4
88°	14.8	12.0	8.6
89°	6.3	5.5	4.0



REPORT NUMBER: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

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: P1436765

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)