

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: P1436719

Luminaire Tested: XAS180-SFPM (3000K-72W-T4)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436719
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 (3000K-72W-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 4
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

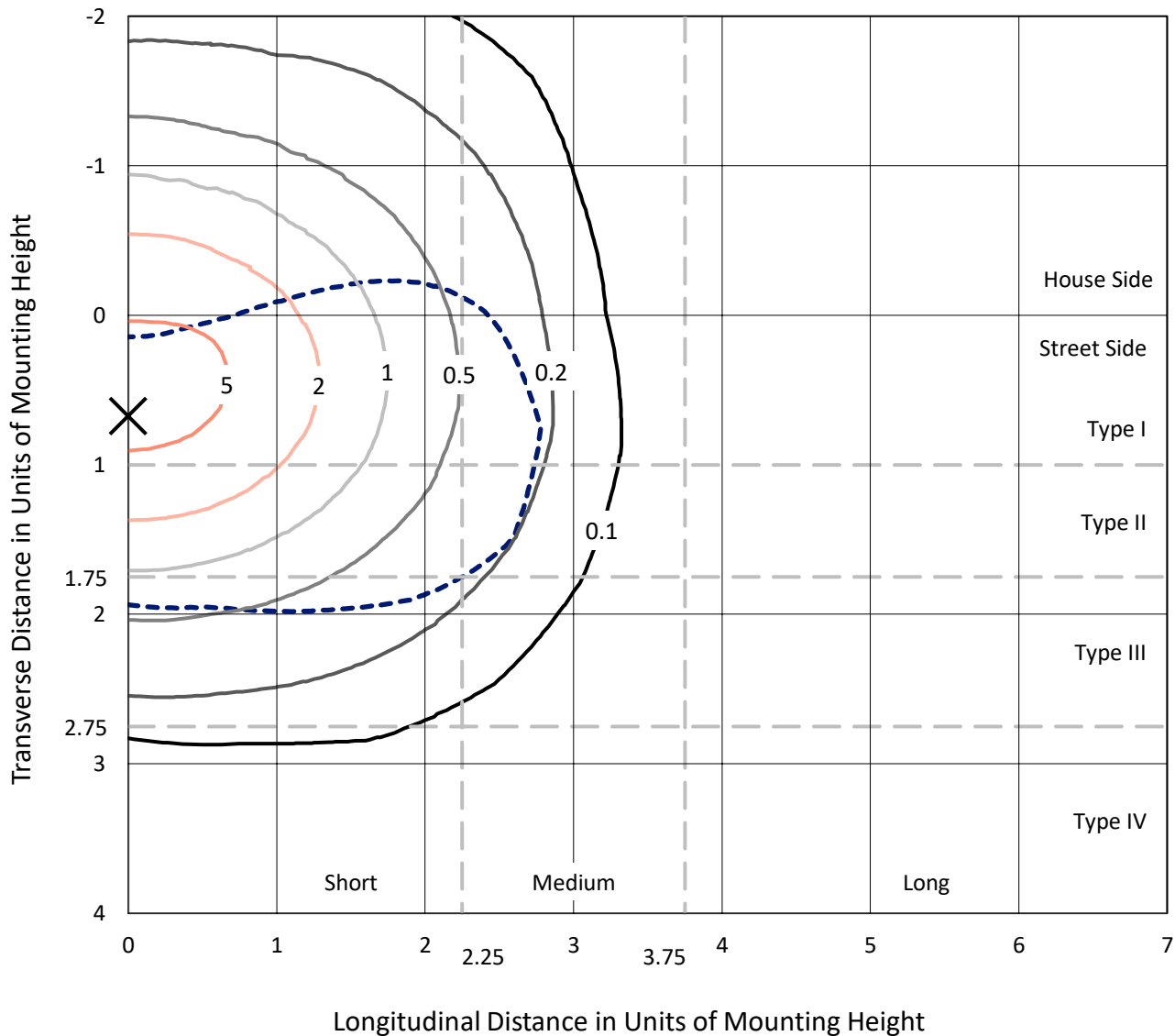
Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 11765.4 lumens
Efficiency: 48.2%
Efficacy: 163.9 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 71.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

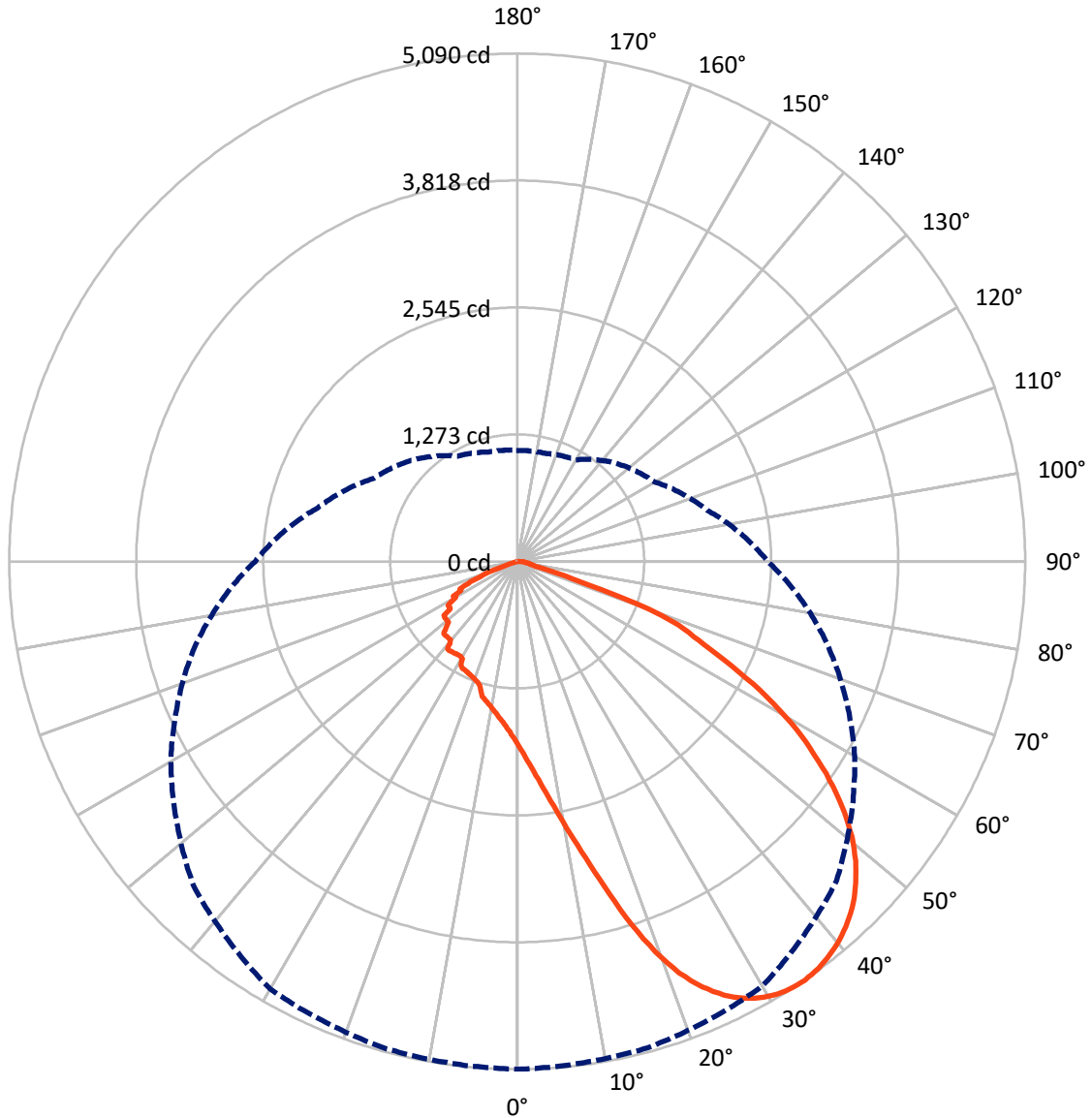
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 34-Deg Vertical

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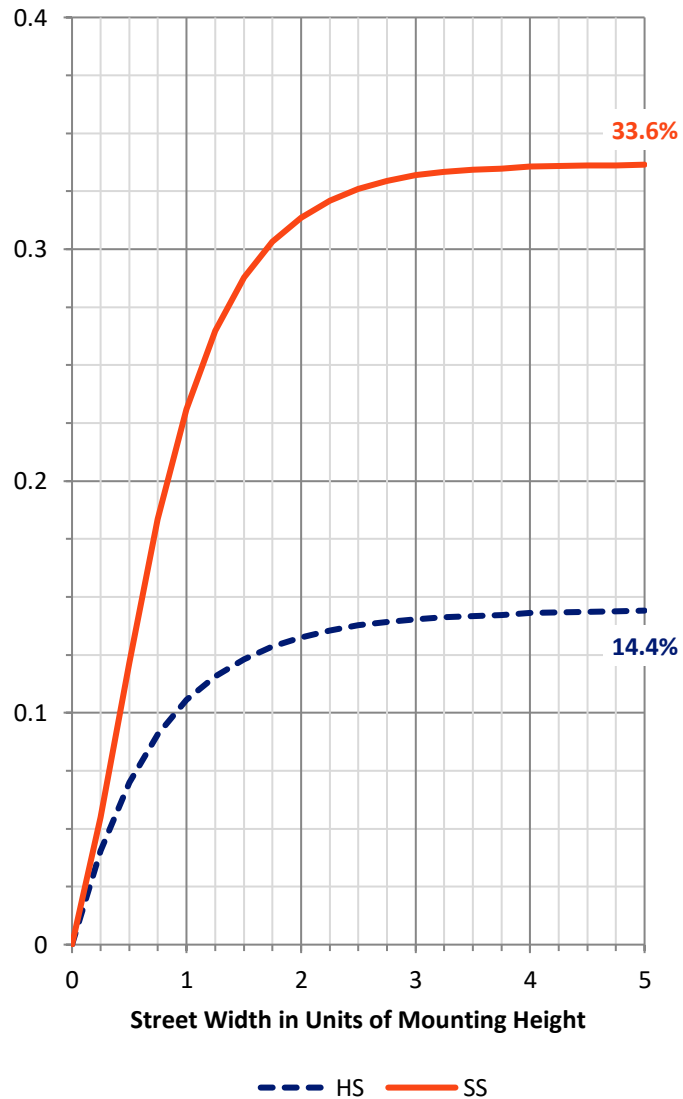
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3538.4	0.0	3538.4
	% Lamp	14.5	0.0	14.5
Street Side	Lumens	8227.0	0.0	8227.0
	% Lamp	33.7	0.0	33.7
Total	Lumens	11765.4	0.0	11765.4
	% Lamp	48.2	0.0	48.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	184.8	1.6	0.8
10°-20°	641.9	5.5	2.6
20°-30°	1245.4	10.6	5.1
30°-40°	1831.0	15.6	7.5
40°-50°	2271.9	19.3	9.3
50°-60°	2420.8	20.6	9.9
60°-70°	2104.5	17.9	8.6
70°-80°	973.6	8.3	4.0
80°-90°	91.5	0.8	0.4
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°	11765.4	100.0	48.2
0°-180°	11765.4	100.0	48.2

Coefficient of Utilization



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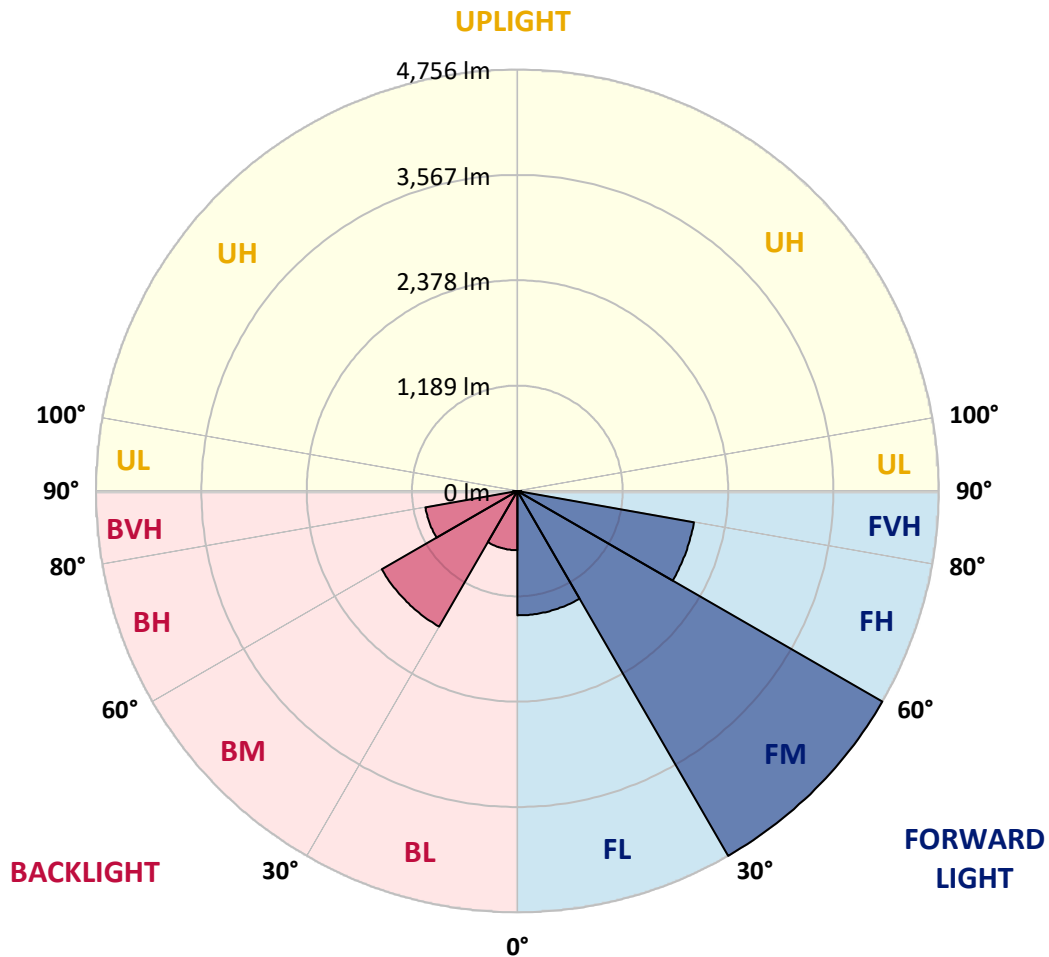
CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1404.2	5.8			
FM (30°-60°)	4756.2	19.5			
FH (60°-80°)	2023.7	8.3			G2/5000
FVH (80°-90°)	42.9	0.2			G1/100
BL (0°-30°)	668.0	2.7	B2/1000		
BM (30°-60°)	1767.5	7.2	B2/2500		
BH (60°-80°)	1054.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	48.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	12641.6	51.8			

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°	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9
1°	1906.6	1905.5	1900.9	1892.2	1880.6	1867.1	1842.6	1829.9	1818.5	1809.4	1802.7
2°	1969.2	1966.6	1954.3	1935.4	1910.4	1882.2	1843.5	1817.3	1794.0	1775.6	1761.1
3°	2037.3	2030.5	2011.2	1981.1	1943.5	1900.7	1846.5	1807.4	1772.7	1744.5	1723.6
4°	2112.1	2102.0	2074.7	2032.1	1978.6	1920.4	1850.9	1799.0	1753.4	1716.2	1689.8
5°	2193.7	2180.9	2142.7	2087.1	2016.7	1942.2	1856.9	1791.7	1736.0	1691.3	1659.8
6°	2283.3	2264.8	2217.9	2147.0	2059.5	1966.1	1864.2	1786.5	1720.0	1669.0	1632.2
7°	2378.2	2355.7	2298.0	2211.0	2104.2	1992.7	1874.4	1783.7	1707.0	1648.6	1606.2
8°	2481.9	2455.8	2385.1	2279.5	2152.6	2021.2	1886.5	1782.7	1695.8	1630.0	1583.0
9°	2594.9	2563.6	2477.9	2353.4	2204.0	2051.8	1899.7	1782.6	1687.0	1613.1	1561.1
10°	2712.9	2675.2	2577.3	2430.3	2258.7	2085.2	1915.1	1784.4	1678.7	1598.6	1540.5
11°	2841.2	2797.9	2683.1	2513.3	2316.7	2120.6	1931.8	1787.5	1672.0	1585.2	1522.0
12°	2980.3	2929.4	2794.7	2602.5	2377.1	2157.7	1949.8	1791.8	1666.9	1573.2	1505.3
13°	3128.4	3068.6	2915.8	2695.3	2441.7	2197.3	1968.8	1796.8	1662.6	1561.9	1489.9
14°	3289.3	3222.8	3045.7	2794.0	2509.1	2238.0	1987.7	1802.0	1658.7	1551.7	1475.5
15°	3461.6	3384.0	3183.3	2898.9	2579.9	2280.0	2008.6	1808.1	1655.7	1542.4	1461.1
16°	3639.2	3551.6	3325.9	3010.5	2653.8	2323.5	2030.8	1815.5	1653.4	1533.6	1448.0
17°	3814.0	3717.8	3465.9	3125.1	2732.0	2368.7	2053.6	1823.1	1651.8	1525.4	1434.8
18°	3988.2	3880.9	3606.7	3238.0	2814.3	2415.7	2076.7	1829.9	1650.6	1517.9	1414.6
19°	4150.0	4038.1	3745.4	3349.4	2899.0	2464.4	2092.8	1831.5	1647.2	1511.2	1367.2
20°	4298.2	4183.5	3880.2	3460.6	2983.4	2510.5	2113.1	1836.2	1639.7	1504.4	1333.6
21°	4431.1	4316.6	4006.9	3567.8	3069.3	2552.6	2133.6	1846.5	1634.0	1496.9	1324.7
22°	4546.7	4436.0	4126.2	3671.3	3153.0	2602.3	2160.4	1857.2	1634.9	1470.2	1316.5
23°	4649.0	4544.1	4235.1	3771.2	3236.2	2650.4	2188.9	1867.0	1636.0	1436.2	1309.6
24°	4738.4	4639.0	4338.1	3864.6	3309.3	2706.1	2215.4	1872.8	1633.8	1408.9	1304.4
25°	4815.8	4722.3	4430.9	3954.6	3379.6	2764.3	2237.7	1881.0	1631.5	1404.5	1299.3
26°	4881.2	4794.2	4515.6	4037.4	3449.1	2821.4	2261.3	1889.0	1630.1	1399.1	1295.3
27°	4936.1	4856.6	4594.0	4118.6	3516.0	2877.2	2287.7	1901.6	1633.4	1392.0	1291.0
28°	4981.4	4908.2	4662.0	4194.8	3578.4	2926.8	2314.8	1914.1	1638.1	1386.9	1287.1
29°	5019.0	4950.1	4721.6	4264.6	3639.5	2973.7	2346.7	1926.8	1642.2	1386.7	1283.9
30°	5047.5	4984.8	4774.5	4331.0	3701.7	3022.6	2378.6	1940.3	1636.7	1387.9	1280.9
31°	5069.7	5011.3	4820.0	4391.3	3759.2	3072.0	2411.9	1954.2	1612.3	1389.6	1275.0
32°	5083.2	5030.6	4857.6	4441.2	3813.2	3119.2	2444.8	1966.4	1607.2	1391.3	1267.2
33°	5089.9	5042.2	4889.9	4485.4	3862.2	3168.6	2478.0	1970.0	1587.9	1392.9	1217.7
34°	5090.4	5047.0	4914.9	4525.3	3905.1	3216.9	2510.1	1973.9	1590.1	1393.0	1175.2
35°	5084.6	5046.5	4933.7	4563.3	3943.3	3262.9	2533.7	1983.7	1593.2	1391.9	1172.7
36°	5073.5	5040.7	4944.8	4596.7	3979.1	3307.0	2553.2	1994.9	1597.3	1391.3	1173.6
37°	5056.6	5029.6	4950.1	4624.5	4014.1	3349.2	2575.5	2006.8	1604.4	1393.2	1174.4
38°	5035.4	5013.3	4950.6	4645.8	4048.4	3391.1	2603.2	2020.3	1608.9	1393.7	1173.6
39°	5009.4	4993.5	4945.3	4663.6	4078.7	3429.2	2628.1	2034.8	1610.0	1327.2	1172.8
40°	4979.5	4968.9	4933.2	4677.5	4107.9	3460.8	2654.8	2045.4	1617.0	1296.7	1175.8
41°	4943.8	4939.0	4917.3	4688.3	4133.2	3483.3	2680.5	2055.0	1627.5	1301.1	1178.6
42°	4902.9	4905.8	4895.6	4697.7	4160.1	3505.2	2706.7	2063.4	1638.2	1307.3	1181.8
43°	4856.1	4866.7	4868.6	4700.5	4185.5	3527.7	2731.5	2068.1	1649.5	1314.3	1183.0
44°	4803.4	4823.3	4837.3	4697.3	4208.2	3552.3	2752.1	2082.4	1661.6	1322.0	1145.0



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4743.8	4773.5	4800.0	4687.4	4228.4	3575.9	2768.5	2102.2	1674.2	1328.5	1093.2
46°	4675.5	4717.2	4758.6	4672.1	4247.3	3599.3	2783.3	2122.6	1679.5	1328.4	1094.5
47°	4603.6	4652.8	4712.1	4650.0	4263.5	3621.5	2792.8	2143.6	1678.9	1331.8	1097.7
48°	4527.9	4583.6	4660.1	4622.1	4275.6	3640.0	2799.7	2165.7	1684.6	1339.6	1099.3
49°	4442.0	4504.1	4601.4	4590.4	4282.6	3658.1	2814.3	2184.5	1655.4	1344.6	1097.9
50°	4346.6	4418.7	4534.5	4552.5	4282.9	3675.0	2834.4	2188.5	1629.5	1302.0	1098.0
51°	4243.4	4323.2	4458.9	4507.0	4274.9	3685.7	2854.6	2174.3	1605.5	1249.8	1099.8
52°	4132.4	4219.5	4376.4	4454.5	4263.8	3691.4	2872.8	2187.4	1617.5	1253.8	1050.5
53°	4014.1	4106.8	4284.7	4396.5	4245.9	3694.0	2888.8	2191.7	1628.2	1261.7	997.3
54°	3887.0	3984.2	4186.5	4330.1	4222.5	3693.4	2903.1	2189.3	1634.0	1272.2	1002.4
55°	3757.4	3858.0	4080.1	4256.5	4191.3	3683.3	2914.7	2202.5	1643.2	1277.9	1009.5
56°	3617.3	3725.5	3964.9	4176.8	4156.2	3665.6	2917.2	2210.9	1658.0	1282.1	1017.6
57°	3477.8	3586.8	3846.5	4088.4	4115.7	3642.9	2914.3	2210.9	1669.9	1280.4	1025.5
58°	3332.8	3444.3	3722.3	3992.7	4067.6	3621.8	2902.7	2218.5	1675.2	1211.7	1029.5
59°	3181.4	3299.7	3591.8	3892.9	4011.3	3599.8	2891.8	2225.7	1686.4	1195.4	948.1
60°	3019.7	3148.6	3457.9	3784.0	3944.7	3572.5	2881.5	2220.3	1640.8	1211.8	954.9
61°	2846.9	2988.9	3317.8	3670.7	3868.9	3539.0	2863.2	2201.2	1614.9	1231.3	957.7
62°	2666.3	2822.9	3176.3	3550.3	3788.6	3496.2	2842.9	2195.3	1625.5	1252.1	929.9
63°	2477.1	2649.3	3032.8	3424.3	3698.4	3443.6	2814.6	2179.5	1633.4	1267.9	902.3
64°	2293.9	2478.1	2889.3	3295.7	3597.7	3381.4	2775.7	2154.4	1639.4	1208.8	896.3
65°	2127.8	2307.4	2740.4	3163.2	3489.5	3307.7	2728.1	2125.4	1631.5	1215.1	906.3
66°	1981.8	2152.9	2595.1	3028.7	3373.9	3222.0	2665.7	2082.2	1586.8	1230.6	853.3
67°	1861.8	2012.0	2450.7	2895.1	3250.2	3122.2	2599.9	2036.6	1537.6	1220.6	841.0
68°	1732.9	1888.5	2310.1	2758.0	3110.8	3010.6	2501.3	1969.7	1549.5	1190.5	862.3
69°	1543.8	1758.3	2177.9	2624.4	2963.5	2876.7	2352.1	1890.1	1556.7	1198.7	788.9
70°	1266.4	1586.4	2054.6	2489.3	2812.5	2710.8	2136.2	1782.8	1559.8	1166.5	785.3
71°	901.6	1346.2	1931.0	2355.0	2641.4	2514.1	1888.5	1642.8	1528.1	1169.2	679.7
72°	573.8	1019.4	1792.0	2215.6	2451.5	2282.9	1676.2	1486.9	1470.2	1162.6	655.4
73°	441.6	674.8	1625.2	2072.2	2239.2	2032.2	1474.4	1350.4	1412.4	1145.3	608.0
74°	313.5	410.2	1400.0	1910.3	2014.1	1777.5	1193.2	1249.7	1349.6	1155.1	551.0
75°	185.5	302.3	1087.6	1703.3	1768.9	1503.2	912.0	1057.2	1278.0	1131.1	530.7
76°	163.6	197.5	759.2	1447.7	1516.1	1161.6	630.6	864.7	1214.9	1100.2	517.2
77°	146.3	169.6	495.3	1131.1	1253.6	764.4	344.4	671.7	1162.5	995.0	488.1
78°	132.3	149.8	387.2	755.0	973.2	439.7	179.6	387.6	1010.7	889.8	440.3
79°	119.8	133.8	284.0	411.7	676.9	305.0	146.9	283.9	858.9	783.5	373.9
80°	108.5	119.9	180.8	284.2	423.1	171.4	114.2	180.2	704.7	639.2	320.2
81°	98.1	107.5	152.9	162.0	277.8	144.7	81.9	78.3	391.3	478.3	289.4
82°	88.3	96.0	132.6	138.6	135.1	123.6	69.1	60.8	286.8	381.1	288.3
83°	79.0	85.1	114.8	121.0	104.9	100.4	57.6	46.9	182.3	301.9	236.8
84°	70.0	75.1	97.1	105.1	85.2	76.1	46.7	36.7	78.1	215.5	176.2
85°	61.4	65.6	78.5	90.0	67.9	58.1	36.2	28.4	68.6	159.5	124.5
86°	52.9	56.7	64.0	75.3	52.9	45.0	26.5	21.5	54.9	103.5	73.0
87°	45.5	48.2	51.8	59.4	41.3	33.9	20.4	16.7	40.7	48.1	44.8
88°	38.2	41.0	42.4	45.6	29.9	22.9	14.2	11.8	30.9	32.7	30.5
89°	30.9	33.9	33.1	31.9	18.4	13.3	8.0	7.0	21.1	17.3	16.3



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CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9
1°	1799.7	1799.8	1802.4	1809.1	1817.9	1829.4	1841.8	1845.6	1860.4	1874.1	1886.2
2°	1754.1	1752.9	1758.2	1769.6	1786.4	1807.3	1832.2	1849.8	1878.9	1907.1	1932.0
3°	1712.7	1709.9	1716.8	1732.9	1757.3	1788.2	1824.5	1856.3	1899.5	1941.6	1979.5
4°	1675.2	1672.3	1679.9	1699.6	1730.6	1771.2	1819.1	1864.0	1922.0	1979.0	2032.2
5°	1642.1	1637.9	1646.5	1670.1	1706.7	1756.3	1815.4	1873.5	1946.9	2020.6	2088.8
6°	1610.6	1605.5	1615.9	1643.1	1686.0	1742.8	1813.0	1884.7	1974.2	2065.9	2150.7
7°	1581.9	1575.7	1587.2	1617.8	1666.6	1731.9	1812.7	1898.7	2003.3	2113.5	2216.8
8°	1555.4	1547.9	1560.7	1595.1	1649.2	1722.2	1813.8	1912.6	2034.8	2164.2	2287.9
9°	1530.2	1521.5	1535.9	1573.9	1633.8	1714.1	1815.9	1928.7	2069.1	2218.8	2364.3
10°	1506.7	1497.4	1513.1	1554.5	1619.2	1707.1	1819.0	1946.4	2104.6	2276.3	2444.1
11°	1485.1	1474.6	1492.0	1537.0	1607.0	1701.4	1823.7	1966.6	2143.6	2337.7	2530.1
12°	1465.3	1454.1	1471.7	1520.4	1596.0	1697.0	1830.1	1987.5	2183.1	2402.8	2621.2
13°	1447.2	1434.5	1453.7	1505.3	1586.1	1694.1	1837.6	2009.9	2225.5	2471.1	2718.9
14°	1429.8	1415.6	1436.3	1491.2	1577.6	1692.2	1845.8	2032.7	2269.3	2542.1	2822.3
15°	1412.7	1397.1	1419.4	1477.7	1569.9	1691.7	1854.5	2057.2	2315.1	2619.5	2933.3
16°	1393.1	1355.8	1400.5	1464.9	1562.4	1691.9	1863.5	2082.8	2362.8	2699.0	3050.1
17°	1339.6	1309.6	1349.6	1452.3	1555.5	1692.2	1874.3	2108.5	2412.6	2784.1	3167.9
18°	1301.9	1285.5	1311.0	1432.5	1549.6	1693.3	1885.2	2135.3	2464.2	2872.1	3287.2
19°	1288.1	1271.4	1296.4	1389.1	1543.7	1693.5	1889.5	2158.3	2517.4	2961.5	3407.6
20°	1276.2	1258.8	1284.4	1356.5	1537.9	1688.1	1897.0	2179.5	2573.1	3052.2	3524.3
21°	1265.8	1248.3	1273.8	1344.4	1531.2	1684.6	1908.0	2203.5	2623.8	3144.0	3636.3
22°	1257.4	1238.7	1265.4	1337.1	1504.9	1687.1	1922.1	2232.9	2675.2	3235.9	3742.3
23°	1250.1	1230.6	1258.7	1330.8	1473.4	1690.7	1936.1	2264.7	2733.7	3324.0	3840.6
24°	1243.3	1223.2	1252.4	1325.8	1450.4	1694.3	1948.3	2297.2	2792.1	3410.8	3934.5
25°	1237.3	1216.1	1246.4	1321.7	1444.2	1693.3	1957.0	2328.0	2855.3	3485.9	4022.2
26°	1231.1	1210.2	1241.3	1318.5	1441.6	1693.2	1968.1	2354.1	2918.8	3554.7	4105.7
27°	1226.1	1205.4	1236.6	1315.6	1435.6	1694.1	1978.7	2383.3	2982.9	3623.0	4184.3
28°	1221.9	1201.2	1232.8	1312.8	1431.3	1699.9	1994.1	2413.8	3043.0	3688.4	4259.1
29°	1217.7	1183.3	1228.7	1310.6	1430.9	1705.5	2010.0	2447.8	3095.8	3746.9	4327.3
30°	1184.6	1118.9	1200.8	1308.9	1433.1	1701.1	2026.0	2483.2	3149.0	3806.6	4392.0
31°	1128.8	1106.5	1144.0	1303.5	1435.9	1687.5	2041.7	2518.9	3202.1	3863.7	4452.4
32°	1119.5	1106.9	1133.9	1297.4	1439.5	1674.3	2056.9	2555.1	3251.9	3917.8	4507.0
33°	1118.8	1108.4	1133.4	1260.4	1443.1	1661.5	2063.6	2590.8	3300.9	3966.2	4552.6
34°	1119.3	1111.1	1133.9	1215.9	1446.6	1662.0	2070.4	2627.1	3350.3	4009.3	4591.7
35°	1120.2	1114.8	1135.4	1209.8	1447.2	1665.9	2081.8	2657.8	3397.3	4046.4	4626.0
36°	1122.0	1118.0	1137.6	1211.5	1447.5	1670.9	2094.6	2681.6	3441.4	4080.9	4658.5
37°	1122.6	1120.8	1139.0	1213.8	1447.9	1677.2	2108.8	2707.0	3483.2	4114.8	4686.7
38°	1122.8	1123.3	1140.0	1213.5	1448.1	1684.5	2124.7	2735.3	3523.1	4147.8	4710.1
39°	1122.4	1123.4	1140.8	1213.0	1393.7	1687.6	2141.9	2762.7	3560.7	4177.1	4727.0
40°	1120.2	1061.7	1139.5	1215.5	1361.8	1692.9	2158.1	2791.7	3593.4	4204.0	4741.3
41°	1056.8	1030.0	1083.9	1219.4	1362.4	1704.7	2169.2	2819.4	3617.3	4229.5	4750.0
42°	1021.9	1030.5	1043.0	1223.5	1368.5	1717.0	2177.9	2846.1	3636.9	4255.2	4754.9
43°	1021.3	1032.2	1042.5	1226.4	1375.5	1730.1	2183.4	2873.7	3657.2	4277.1	4755.2
44°	1022.1	1033.5	1044.3	1200.4	1383.6	1743.6	2200.1	2899.8	3676.4	4297.2	4750.9



REPORT NUMBER: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1023.4	1033.5	1046.4	1142.2	1391.3	1756.6	2221.2	2919.4	3696.7	4313.4	4738.7
46°	1024.5	1032.0	1048.0	1139.3	1393.2	1763.5	2243.0	2934.1	3717.0	4327.6	4718.6
47°	1025.2	994.8	1049.3	1142.9	1395.2	1764.4	2265.0	2943.2	3734.1	4338.7	4691.0
48°	991.2	957.7	1049.2	1144.9	1404.4	1771.3	2286.7	2948.2	3749.6	4344.9	4659.3
49°	957.2	921.2	987.8	1143.0	1409.8	1766.4	2307.7	2961.3	3760.8	4346.6	4621.5
50°	923.5	919.2	943.5	1142.8	1381.1	1727.0	2320.8	2977.9	3769.1	4339.4	4580.1
51°	926.9	918.1	946.5	1145.2	1318.4	1703.5	2310.4	2992.7	3773.5	4322.8	4532.4
52°	931.9	918.3	951.2	1107.8	1319.1	1711.7	2303.8	3006.1	3772.7	4301.7	4477.7
53°	937.2	918.0	956.2	1045.2	1328.9	1723.9	2312.2	3016.5	3765.7	4274.7	4416.3
54°	941.4	913.8	933.7	1050.6	1341.4	1730.1	2308.9	3023.3	3754.1	4242.4	4346.0
55°	943.4	827.3	911.1	1058.6	1348.7	1734.1	2307.2	3027.9	3732.7	4205.1	4271.5
56°	861.6	813.8	888.6	1068.2	1354.9	1749.9	2310.1	3023.0	3700.7	4163.9	4189.1
57°	846.5	817.5	870.2	1077.9	1353.9	1761.7	2305.2	3008.5	3665.9	4118.4	4102.1
58°	850.3	821.7	874.2	1084.9	1295.5	1765.4	2305.4	2986.6	3630.2	4063.1	4007.5
59°	855.8	785.5	879.1	1005.7	1275.9	1772.8	2306.5	2965.4	3595.7	4002.8	3906.8
60°	793.7	713.7	823.5	1006.8	1293.8	1735.0	2293.0	2942.0	3556.2	3933.1	3797.0
61°	756.6	721.6	783.8	1012.4	1313.5	1692.4	2264.4	2912.6	3508.3	3855.0	3679.7
62°	765.7	729.0	793.9	1023.2	1333.9	1693.5	2251.0	2878.0	3453.7	3769.1	3560.7
63°	775.2	638.3	802.3	960.9	1350.1	1694.3	2233.3	2837.8	3391.3	3671.8	3434.8
64°	674.8	630.1	698.9	952.9	1291.5	1694.6	2200.5	2783.9	3319.5	3569.7	3307.1
65°	681.2	637.8	702.0	934.8	1292.8	1683.5	2166.5	2716.5	3236.3	3457.9	3173.0
66°	685.9	532.8	711.0	916.8	1301.0	1642.5	2116.8	2641.1	3137.4	3341.1	3034.5
67°	567.9	515.5	589.5	899.8	1292.1	1579.3	2060.4	2550.4	3030.4	3212.6	2897.2
68°	577.6	397.9	596.3	919.3	1258.7	1583.3	1977.6	2414.8	2902.1	3071.8	2757.8
69°	461.8	359.0	479.8	845.6	1256.6	1582.9	1870.3	2221.0	2749.3	2920.4	2623.9
70°	441.1	245.7	452.9	837.2	1226.4	1579.2	1730.8	1965.3	2559.6	2752.5	2481.2
71°	292.1	132.4	293.0	729.5	1213.0	1541.6	1569.7	1723.4	2332.7	2565.3	2334.2
72°	181.2	20.2	171.5	705.0	1204.4	1472.4	1411.5	1508.7	2076.4	2357.4	2184.7
73°	149.6	0.3	136.4	639.7	1178.9	1401.3	1266.3	1283.0	1812.1	2129.1	2022.8
74°	135.0	0.2	125.8	569.0	1176.5	1330.6	1087.0	1027.2	1551.0	1883.3	1844.9
75°	110.9	0.2	107.7	535.1	1116.5	1254.7	907.7	710.3	1270.2	1615.5	1624.5
76°	86.7	0.2	89.6	516.5	1024.3	1169.5	727.6	412.8	925.6	1349.0	1362.1
77°	62.8	0.2	71.5	486.4	932.2	1025.1	448.4	273.7	568.1	1095.2	1042.7
78°	46.8	0.2	57.7	438.2	839.8	880.6	233.9	136.4	429.9	828.5	686.6
79°	46.1	0.2	57.6	370.8	726.8	733.0	157.0	106.6	296.2	553.0	508.2
80°	62.9	0.2	70.4	323.5	599.8	444.0	82.0	90.1	162.4	411.5	334.4
81°	77.5	0.3	74.0	301.7	453.7	320.6	64.9	76.8	139.1	271.5	160.6
82°	69.9	0.3	45.5	283.9	350.4	197.1	52.7	64.4	118.8	131.5	138.5
83°	43.4	0.4	32.1	236.4	249.6	75.3	42.6	53.2	96.9	102.9	121.5
84°	23.6	0.4	18.7	169.7	180.0	63.7	33.8	43.3	75.4	83.9	105.5
85°	17.6	0.5	5.3	103.0	110.4	50.6	26.5	33.4	57.5	66.4	90.1
86°	11.6	0.5	4.7	37.9	42.4	37.3	20.2	23.4	45.7	51.4	75.2
87°	5.7	0.6	4.7	26.3	21.8	26.7	15.3	15.5	33.9	40.2	58.6
88°	3.9	0.6	4.1	14.7	15.1	18.5	10.4	8.9	22.1	29.1	45.1
89°	2.8	0.7	2.3	3.4	8.4	10.3	5.5	6.2	12.8	18.0	31.6



REPORT NUMBER: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1848.9	1848.9	1848.9
1°	1896.2	1903.4	1906.6
2°	1950.9	1964.3	1969.2
3°	2009.9	2029.8	2037.3
4°	2075.3	2103.1	2112.1
5°	2144.5	2181.5	2193.7
6°	2221.3	2267.9	2283.3
7°	2303.2	2358.5	2378.2
8°	2390.3	2458.0	2481.9
9°	2484.8	2566.1	2594.9
10°	2585.0	2680.5	2712.9
11°	2695.0	2805.1	2841.2
12°	2810.7	2938.2	2980.3
13°	2936.3	3082.5	3128.4
14°	3068.0	3234.7	3289.3
15°	3209.4	3396.5	3461.6
16°	3351.5	3561.0	3639.2
17°	3497.4	3730.6	3814.0
18°	3643.4	3897.9	3988.2
19°	3783.9	4055.5	4150.0
20°	3918.7	4203.6	4298.2
21°	4045.8	4339.1	4431.1
22°	4163.4	4458.7	4546.7
23°	4275.4	4567.8	4649.0
24°	4379.9	4661.2	4738.4
25°	4474.6	4743.2	4815.8
26°	4560.4	4812.1	4881.2
27°	4637.8	4872.0	4936.1
28°	4706.3	4922.2	4981.4
29°	4765.7	4963.1	5019.0
30°	4817.7	4996.4	5047.5
31°	4861.9	5022.4	5069.7
32°	4898.0	5041.7	5083.2
33°	4927.0	5052.8	5089.9
34°	4950.6	5057.6	5090.4
35°	4967.5	5056.2	5084.6
36°	4977.6	5048.9	5073.5
37°	4981.4	5036.9	5056.6
38°	4980.0	5020.0	5035.4
39°	4972.3	4998.8	5009.4
40°	4959.3	4973.7	4979.5
41°	4941.9	4944.8	4943.8
42°	4919.3	4911.5	4902.9
43°	4890.8	4873.9	4856.1
44°	4857.1	4830.1	4803.4



REPORT NUMBER: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4820.2	4781.6	4743.8
46°	4778.5	4727.1	4675.5
47°	4731.0	4663.8	4603.6
48°	4679.6	4597.6	4527.9
49°	4620.7	4520.5	4442.0
50°	4555.2	4437.7	4346.6
51°	4480.5	4345.0	4243.4
52°	4397.5	4242.7	4132.4
53°	4305.2	4131.9	4014.1
54°	4206.6	4012.8	3887.0
55°	4102.3	3887.6	3757.4
56°	3987.8	3752.4	3617.3
57°	3869.2	3609.8	3477.8
58°	3744.5	3468.1	3332.8
59°	3614.0	3321.2	3181.4
60°	3477.5	3170.1	3019.7
61°	3337.9	3009.2	2846.9
62°	3196.0	2845.9	2666.3
63°	3054.7	2675.4	2477.1
64°	2915.2	2506.0	2293.9
65°	2773.0	2337.1	2127.8
66°	2629.7	2183.7	1981.8
67°	2486.9	2043.3	1861.8
68°	2346.0	1921.6	1732.9
69°	2212.1	1791.0	1543.8
70°	2086.3	1628.0	1266.4
71°	1956.6	1403.5	901.6
72°	1812.8	1087.7	573.8
73°	1640.5	737.4	441.6
74°	1406.7	450.2	313.5
75°	1102.3	328.1	185.5
76°	784.6	206.6	163.6
77°	525.8	175.6	146.3
78°	410.5	154.5	132.3
79°	298.5	137.5	119.8
80°	186.5	122.9	108.5
81°	155.7	109.9	98.1
82°	134.1	98.3	88.3
83°	115.5	87.3	79.0
84°	97.6	77.1	70.0
85°	79.0	67.1	61.4
86°	64.3	57.9	52.9
87°	51.9	49.0	45.5
88°	42.5	41.5	38.2
89°	33.2	34.1	30.9



REPORT NUMBER: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1436719

CATALOG NUMBER: XAS180-SFPM (3000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)