

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1197134

Luminaire Tested: AWPf150S-BZ-BZ-LOW-3000K-POSITION 45

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LDS)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: AWP150S-BZ-BZ-LOW-3000K-POSITION 45
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 18720 (1 lamp)
Luminaire Lumens: 13480 lumens
Efficiency: 72.0%
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G5

Input Watts (W): 100.4
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

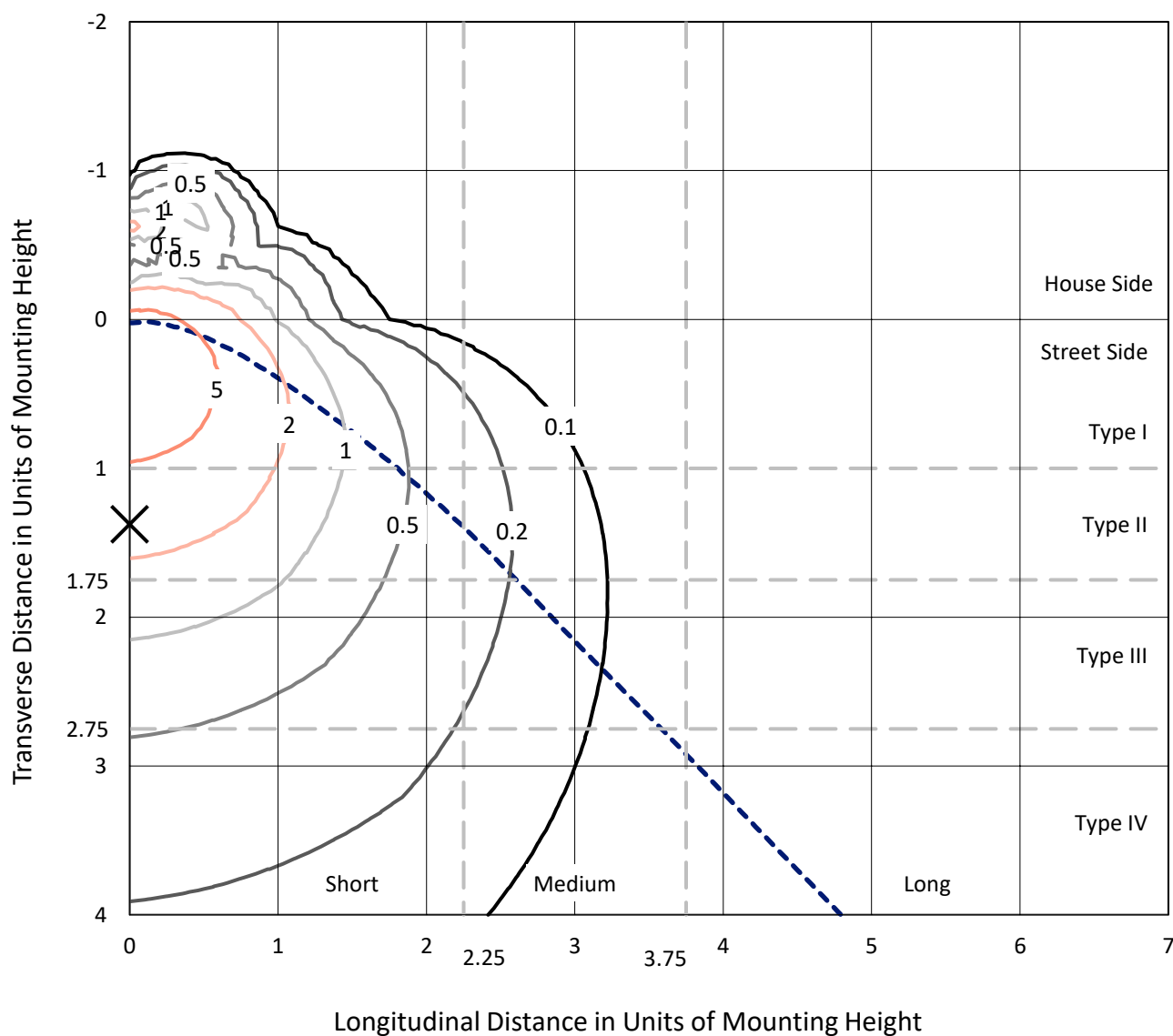
REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

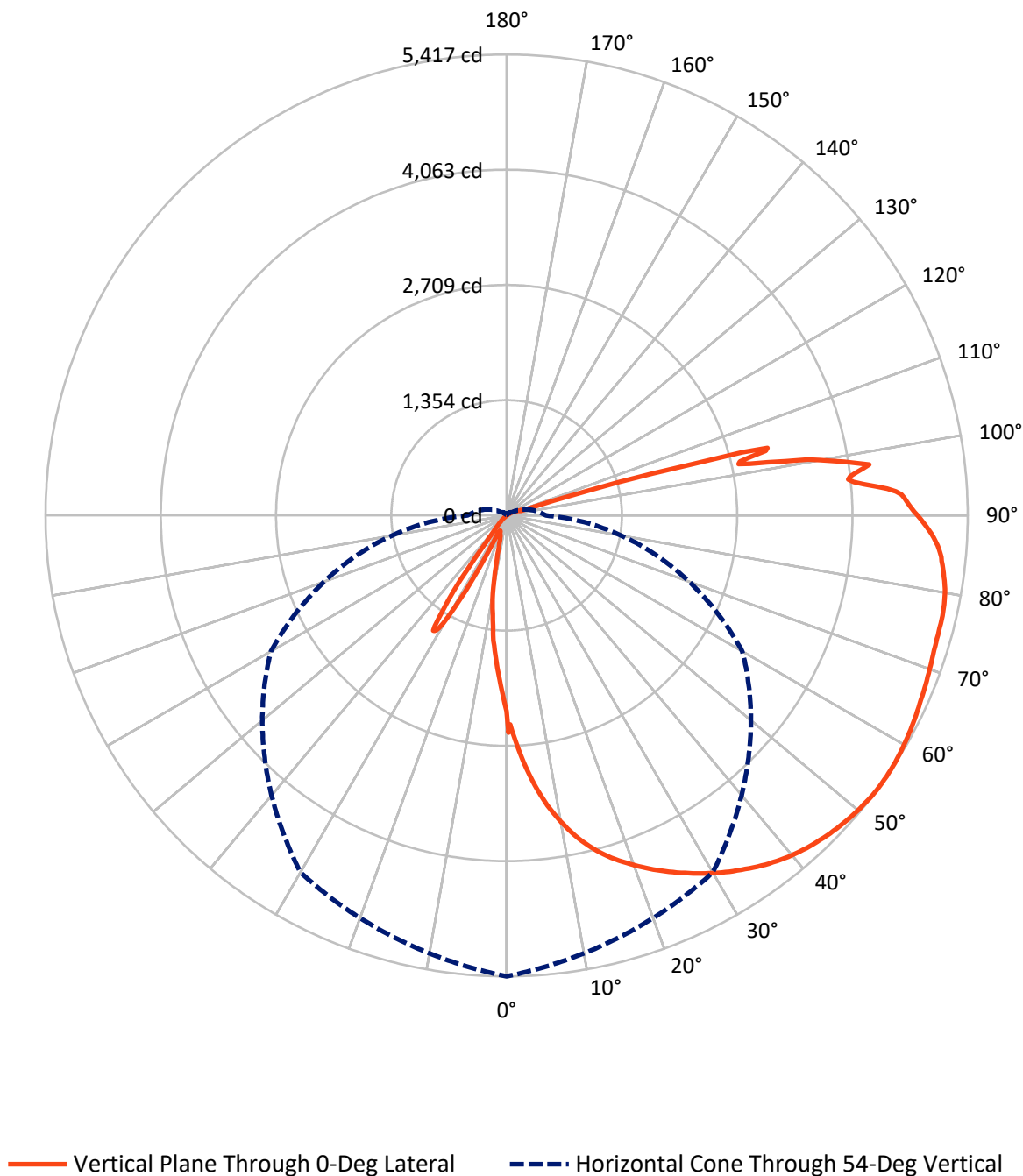


Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

Luminous Intensity Polar Plot



REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

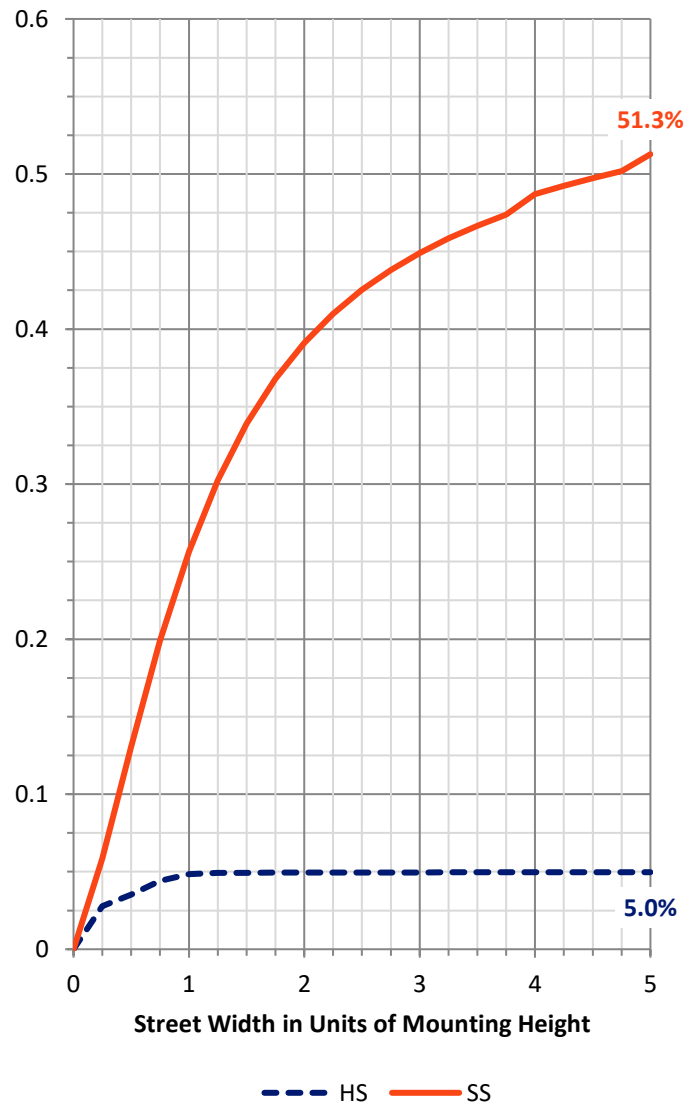
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	937.1	34.0	971.1
	% Lamp	5.0	0.2	5.2
Street Side	Lumens	10765.4	1743.5	12508.8
	% Lamp	57.5	9.3	66.8
Total	Lumens	11702.5	1777.5	13480.0
	% Lamp	62.5	9.5	72.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	240.9	1.8	1.3
10°-20°	669.6	5.0	3.6
20°-30°	1040.0	7.7	5.6
30°-40°	1447.4	10.7	7.7
40°-50°	1666.2	12.4	8.9
50°-60°	1685.6	12.5	9.0
60°-70°	1725.2	12.8	9.2
70°-80°	1682.9	12.5	9.0
80°-90°	1544.6	11.5	8.3
90°-100°	1288.8	9.6	6.9
100°-110°	438.8	3.3	2.3
110°-120°	25.9	0.2	0.1
120°-130°	6.7	0.0	0.0
130°-140°	5.6	0.0	0.0
140°-150°	4.8	0.0	0.0
150°-160°	3.7	0.0	0.0
160°-170°	2.4	0.0	0.0
170°-180°	0.8	0.0	0.0
0°-90°	11702.5	86.8	62.5
0°-180°	13480.0	100.0	72.0



REPORT NUMBER: P1197134

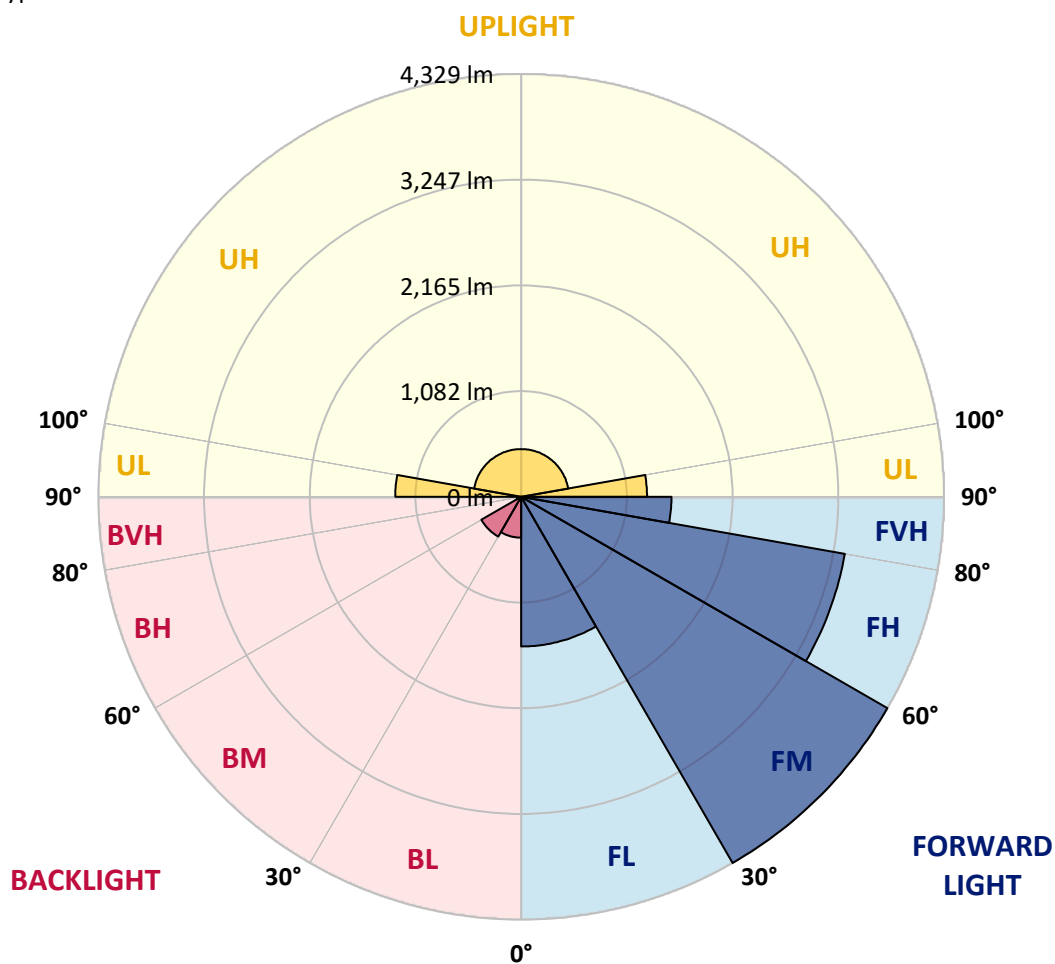
CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.4	8.2			
FM	(30°-60°)	4329.3	23.1			
FH	(60°-80°)	3365.0	18.0			G2/5000
FVH	(80°-90°)	1538.7	8.2			G5
BL	(0°-30°)	418.1	2.2	B1/500		
BM	(30°-60°)	469.9	2.5	B1/1000		
BH	(60°-80°)	43.1	0.2	B0/110		G0/110
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	1288.8	6.9		U5	
UH	(100°-180°)	488.7	2.6		U3/500	
Trapped Light		5240.0	28.0			

BUG Rating: B1-U5-G5

Type IV Short



REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7
0.5°	2457.3	2559.2	2637.5	2653.9	2602.1	2496.7	2298.9
1°	2536.2	2627.3	2675.3	2653.4	2563.7	2426.9	2221.9
1.5°	2615.0	2692.7	2712.6	2651.4	2525.0	2356.7	2144.7
2°	2690.5	2756.8	2750.0	2650.4	2483.2	2292.7	2068.2
2.5°	2765.4	2821.9	2787.1	2649.5	2442.8	2223.4	1995.0
3°	2841.2	2884.5	2821.3	2646.9	2401.7	2155.7	1925.8
3.5°	2915.5	2946.1	2855.3	2642.8	2359.5	2089.7	1859.8
4°	2984.0	3009.5	2890.9	2639.6	2317.7	2027.7	1793.8
4.5°	3056.5	3069.3	2924.0	2636.1	2276.3	1963.5	1727.8
5°	3123.2	3126.0	2955.0	2631.5	2233.7	1893.3	1661.9
5.5°	3192.0	3183.1	2987.8	2626.9	2192.6	1836.7	1596.0
6°	3257.6	3239.1	3019.0	2621.4	2149.8	1780.4	1535.6
6.5°	3319.3	3290.9	3049.8	2614.8	2108.6	1724.1	1480.6
7°	3379.0	3344.1	3079.5	2608.9	2065.9	1667.6	1406.8
7.5°	3439.1	3393.4	3109.3	2602.6	2025.0	1611.4	1315.4
8°	3496.1	3441.1	3135.9	2595.1	1983.0	1557.7	1236.3
8.5°	3549.8	3487.9	3163.4	2587.3	1942.2	1506.8	1167.1
9°	3602.5	3533.4	3189.2	2579.5	1900.7	1457.2	1108.2
9.5°	3652.3	3577.4	3215.2	2570.7	1857.8	1408.1	1054.2
10°	3700.0	3620.0	3239.0	2562.0	1816.6	1342.4	997.3
10.5°	3750.6	3660.4	3263.6	2552.2	1775.0	1264.8	933.0
11°	3797.4	3700.5	3286.9	2542.2	1733.1	1194.6	856.2
11.5°	3842.5	3739.9	3309.0	2532.1	1693.6	1133.3	765.5
12°	3885.4	3778.0	3329.9	2521.2	1654.2	1081.2	675.1
12.5°	3926.8	3812.8	3351.3	2509.7	1614.3	1031.5	592.9
13°	3965.4	3848.1	3371.7	2497.0	1575.4	981.1	523.7
13.5°	4004.0	3881.1	3390.9	2484.5	1539.0	927.3	465.3
14°	4041.2	3913.2	3408.9	2471.0	1500.6	864.3	418.2
14.5°	4076.4	3944.2	3426.7	2457.3	1463.3	789.2	376.6
15°	4109.9	3973.4	3443.4	2443.1	1427.2	710.2	342.1
15.5°	4144.3	4002.2	3460.4	2428.0	1390.6	631.8	312.9
16°	4176.6	4030.4	3475.8	2412.9	1355.1	559.9	290.5
16.5°	4205.6	4056.6	3491.4	2398.8	1320.4	496.2	272.6
17°	4236.5	4082.1	3505.5	2382.9	1286.7	444.6	260.0
17.5°	4266.0	4106.5	3518.8	2366.7	1248.4	402.4	250.8
18°	4291.5	4129.7	3531.6	2351.3	1199.3	364.5	244.3
18.5°	4319.0	4151.8	3543.1	2334.4	1148.1	333.3	240.5
19°	4346.8	4170.3	3554.3	2315.2	1101.2	307.1	238.3
19.5°	4374.1	4188.6	3565.0	2297.0	1057.4	284.9	236.5
20°	4399.7	4207.0	3575.3	2278.7	1014.6	267.5	232.6
20.5°	4426.7	4225.3	3584.3	2260.9	976.4	253.9	225.2
21°	4452.6	4243.6	3593.1	2242.0	940.7	244.6	215.2
21.5°	4478.0	4262.1	3601.5	2223.6	904.9	238.3	205.8
22°	4503.8	4277.8	3609.1	2204.1	866.6	235.0	202.3

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	4528.9	4296.3	3616.3	2183.7	826.9	234.4	198.8
23°	4554.1	4314.2	3623.2	2164.6	783.8	236.2	195.4
23.5°	4579.0	4331.1	3628.9	2143.7	736.9	239.5	192.0
24°	4602.9	4348.7	3634.3	2122.9	688.4	244.1	198.5
24.5°	4625.5	4365.8	3638.5	2101.7	635.3	249.8	207.3
25°	4649.3	4382.5	3642.7	2080.4	583.7	256.7	215.9
25.5°	4672.6	4399.9	3646.1	2058.2	536.5	261.7	220.6
26°	4695.6	4417.9	3649.4	2036.3	494.7	262.9	221.4
26.5°	4719.0	4432.8	3651.8	2014.1	459.3	261.5	235.2
27°	4743.2	4448.5	3653.6	1990.0	433.4	259.0	386.4
27.5°	4765.5	4463.8	3654.1	1967.8	416.3	252.3	540.4
28°	4788.6	4479.1	3655.3	1944.7	404.8	243.9	694.5
28.5°	4810.5	4495.1	3655.8	1918.0	393.4	237.7	848.6
29°	4832.2	4509.7	3655.1	1895.1	382.0	233.1	1002.7
29.5°	4853.4	4525.3	3654.4	1872.9	370.7	230.3	1120.7
30°	4875.0	4539.7	3652.5	1847.4	359.5	229.0	1249.1
30.5°	4897.4	4554.8	3650.6	1820.9	352.0	229.3	1374.1
31°	4917.1	4568.0	3647.9	1797.4	346.6	227.5	1470.4
31.5°	4937.1	4582.4	3645.3	1773.3	341.9	225.5	1543.2
32°	4956.3	4595.4	3641.7	1746.6	332.9	223.0	1580.0
32.5°	4975.8	4607.1	3637.9	1723.1	320.5	220.2	1601.3
33°	4995.6	4620.4	3633.9	1698.7	308.3	217.0	1604.9
33.5°	5014.0	4633.7	3630.1	1672.7	300.0	220.1	1550.5
34°	5032.6	4646.3	3625.1	1647.9	293.8	227.5	1433.5
34.5°	5052.1	4658.9	3619.8	1625.1	288.8	243.7	1329.8
35°	5070.4	4671.1	3614.6	1601.5	286.3	377.8	1219.4
35.5°	5088.5	4682.8	3609.4	1578.2	284.2	517.0	1085.7
36°	5106.1	4693.5	3603.8	1558.4	282.3	655.9	934.8
36.5°	5122.6	4705.6	3598.0	1539.7	280.6	794.6	775.8
37°	5138.9	4717.3	3591.9	1521.0	278.9	933.3	608.8
37.5°	5155.2	4727.5	3585.7	1503.2	276.6	1044.0	479.7
38°	5170.6	4738.1	3578.8	1485.4	273.5	1119.8	392.6
38.5°	5185.4	4749.7	3571.6	1462.9	270.5	1164.9	335.7
39°	5199.7	4758.4	3564.0	1435.4	267.2	1185.6	293.2
39.5°	5213.7	4766.9	3555.9	1401.5	264.1	1194.8	257.8
40°	5227.0	4776.9	3546.8	1364.3	261.2	1207.0	229.5
40.5°	5238.8	4785.0	3538.2	1327.4	258.0	1199.9	212.2
41°	5250.9	4793.1	3529.0	1293.1	254.3	1160.6	195.3
41.5°	5262.9	4801.5	3519.3	1258.1	249.8	1088.5	178.5
42°	5272.4	4808.7	3510.3	1225.3	244.9	1019.0	161.7
42.5°	5283.4	4816.0	3501.2	1194.5	239.7	948.8	144.9
43°	5293.2	4822.5	3491.7	1165.4	234.4	884.1	132.1
43.5°	5302.1	4828.0	3481.7	1136.4	228.8	822.6	118.1
44°	5312.2	4833.4	3472.5	1107.2	223.3	766.1	103.7
44.5°	5321.0	4838.3	3461.3	1079.6	217.4	712.1	91.2

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	5329.8	4843.2	3450.7	1053.0	211.8	657.6	78.5
45.5°	5336.9	4847.1	3439.8	1028.2	206.1	597.2	65.1
46°	5345.4	4850.0	3428.8	1004.5	200.2	534.6	51.3
46.5°	5353.0	4853.6	3416.3	981.3	194.1	475.2	39.8
47°	5359.9	4855.4	3403.7	957.6	188.4	423.5	30.9
47.5°	5366.8	4857.1	3391.1	934.4	182.8	378.5	25.4
48°	5373.4	4859.3	3377.8	910.7	177.4	338.0	23.1
48.5°	5379.2	4859.9	3364.3	885.8	167.4	300.6	21.3
49°	5384.7	4860.9	3350.4	857.9	154.9	265.8	19.5
49.5°	5390.3	4861.3	3336.6	827.5	146.1	234.0	17.5
50°	5395.3	4860.4	3322.7	795.3	139.0	201.8	15.6
50.5°	5400.0	4860.2	3307.7	758.0	130.5	169.2	13.9
51°	5404.2	4860.6	3292.5	717.9	124.3	136.6	12.4
51.5°	5408.2	4858.5	3277.3	673.7	119.0	104.0	10.7
52°	5411.2	4855.7	3261.8	626.8	111.6	71.4	8.9
52.5°	5413.1	4854.1	3245.9	581.2	98.7	45.4	8.0
53°	5415.5	4850.7	3230.4	536.5	87.7	19.0	7.3
53.5°	5416.2	4847.4	3214.3	494.3	80.9	13.9	6.6
54°	5417.3	4843.9	3197.5	459.6	76.8	13.2	6.1
54.5°	5416.6	4839.9	3181.0	432.2	73.8	13.0	5.7
55°	5416.5	4834.5	3164.2	409.1	71.2	12.7	5.4
55.5°	5415.8	4829.7	3146.1	389.8	69.1	12.4	5.2
56°	5414.4	4824.3	3128.0	374.5	66.9	12.0	5.1
56.5°	5411.8	4818.3	3109.4	361.8	64.6	11.6	5.0
57°	5410.2	4813.2	3089.9	352.4	61.6	11.0	4.9
57.5°	5406.3	4807.2	3070.6	345.0	59.0	9.9	4.8
58°	5403.2	4800.4	3051.3	339.8	56.4	9.3	4.8
58.5°	5400.1	4795.5	3031.9	336.1	53.9	8.7	4.7
59°	5396.5	4789.0	3012.5	333.6	50.9	8.2	4.6
59.5°	5392.1	4781.7	2993.1	331.6	47.4	7.7	4.6
60°	5388.1	4776.1	2973.8	329.2	43.7	7.3	4.6
60.5°	5383.5	4770.0	2952.6	326.2	41.1	6.9	4.6
61°	5378.3	4762.1	2931.7	323.7	39.0	6.5	4.7
61.5°	5373.2	4754.8	2911.1	321.0	37.1	6.2	4.8
62°	5367.5	4748.1	2888.6	318.1	35.1	5.9	4.9
62.5°	5362.7	4740.1	2865.6	315.4	32.9	5.6	5.0
63°	5357.2	4732.1	2845.2	311.4	30.4	5.4	5.1
63.5°	5351.7	4724.7	2822.8	306.5	27.5	5.1	5.2
64°	5346.4	4715.0	2801.1	301.1	24.3	4.9	5.4
64.5°	5340.7	4706.7	2780.5	294.7	21.1	4.7	5.5
65°	5334.3	4697.2	2760.8	287.9	17.8	4.5	5.7
65.5°	5329.7	4687.1	2740.9	280.9	14.7	4.4	5.8
66°	5323.8	4677.3	2721.5	274.9	11.9	4.3	5.9
66.5°	5319.8	4667.1	2702.4	268.3	9.1	4.2	6.1
67°	5314.4	4655.1	2683.0	261.6	6.9	4.1	6.2

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	5310.4	4642.7	2663.4	254.1	5.7	4.1	6.3
68°	5305.2	4631.5	2643.5	246.4	5.4	4.1	6.5
68.5°	5299.4	4618.5	2622.4	239.3	5.4	4.1	6.6
69°	5295.3	4605.8	2602.4	233.3	5.3	4.1	6.8
69.5°	5289.4	4593.7	2579.9	226.9	5.2	4.2	7.0
70°	5284.2	4580.7	2555.4	219.5	5.1	4.3	7.2
70.5°	5279.4	4568.6	2531.5	211.8	4.7	4.3	7.3
71°	5276.2	4556.3	2506.9	204.4	4.6	4.5	7.5
71.5°	5271.4	4544.3	2480.9	197.2	4.5	4.6	7.7
72°	5266.9	4534.1	2454.5	190.0	4.5	4.7	7.9
72.5°	5264.2	4523.6	2428.1	182.9	4.5	4.9	8.0
73°	5262.2	4513.2	2399.3	175.7	4.5	5.0	8.2
73.5°	5260.0	4503.3	2370.7	168.6	4.5	5.2	8.4
74°	5258.1	4495.1	2340.0	160.9	4.5	5.3	8.5
74.5°	5256.7	4486.8	2308.6	153.2	4.5	5.5	8.7
75°	5257.1	4479.6	2277.6	144.8	4.5	5.6	8.9
75.5°	5255.8	4474.5	2247.8	136.2	4.5	5.8	9.1
76°	5255.1	4469.6	2217.2	127.5	4.6	5.9	9.3
76.5°	5254.4	4465.1	2187.9	119.2	4.6	6.1	9.4
77°	5252.4	4460.8	2158.5	110.6	4.6	6.2	9.6
77.5°	5250.4	4457.2	2127.3	102.1	4.7	6.3	9.7
78°	5247.6	4452.9	2091.1	93.9	4.7	6.5	9.9
78.5°	5241.9	4449.1	2056.1	86.1	4.7	6.6	10.0
79°	5236.3	4443.9	2017.6	78.8	4.8	6.8	10.2
79.5°	5230.3	4436.0	1980.5	71.8	4.8	6.9	10.3
80°	5221.8	4428.3	1942.1	64.5	4.9	7.1	10.5
80.5°	5212.4	4420.7	1906.2	57.8	4.9	7.2	10.7
81°	5200.4	4410.6	1868.4	51.6	5.0	7.4	10.8
81.5°	5188.6	4400.2	1833.8	46.1	5.1	7.5	11.0
82°	5176.9	4390.4	1796.8	41.2	5.1	7.6	11.1
82.5°	5166.0	4378.5	1756.3	37.1	5.2	7.8	11.2
83°	5153.1	4364.8	1714.0	33.4	5.3	7.9	11.4
83.5°	5140.9	4349.7	1673.1	29.9	5.4	8.1	11.5
84°	5130.2	4336.9	1633.7	26.7	5.4	8.2	11.7
84.5°	5114.2	4326.8	1596.9	23.9	5.5	8.4	11.8
85°	5095.8	4318.8	1562.4	21.3	5.6	8.5	12.0
85.5°	5076.5	4309.2	1528.7	19.0	5.7	8.6	12.1
86°	5051.9	4301.2	1498.0	17.0	5.8	8.8	12.2
86.5°	5024.6	4294.4	1467.5	15.0	5.9	8.9	12.4
87°	4997.1	4288.8	1441.6	13.1	6.0	9.1	12.5
87.5°	4965.7	4283.3	1417.8	11.5	6.1	9.2	12.6
88°	4932.0	4278.7	1394.3	9.9	6.2	9.3	12.7
88.5°	4899.1	4273.8	1371.1	8.5	6.3	9.4	12.8
89°	4863.5	4267.0	1351.6	7.3	6.3	9.6	12.9
89.5°	4826.7	4260.6	1340.2	6.4	6.4	9.7	13.0

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	4791.9	4259.1	1334.9	5.4	6.5	9.8	13.1
90.5°	4760.9	4266.9	1339.0	4.9	6.5	9.9	13.1
91°	4729.6	4288.0	1355.3	4.8	6.6	10.0	13.2
91.5°	4701.8	4323.4	1382.1	4.7	6.7	10.1	13.3
92°	4678.3	4364.4	1422.8	4.6	6.7	10.2	13.4
92.5°	4647.9	4387.2	1476.1	4.6	6.8	10.3	13.5
93°	4582.0	4390.4	1523.4	4.5	6.9	10.4	13.6
93.5°	4481.8	4354.8	1550.5	4.5	7.0	10.5	13.7
94°	4354.8	4291.9	1529.0	4.4	7.1	10.7	13.8
94.5°	4211.7	4198.0	1465.6	4.4	7.1	10.8	13.9
95°	4095.8	4093.5	1368.5	4.3	7.2	10.9	14.0
95.5°	4035.1	3988.8	1250.4	4.3	7.3	11.0	14.1
96°	4061.8	3859.3	1145.0	4.2	7.4	11.1	14.1
96.5°	4141.4	3665.0	1043.7	4.2	7.5	11.2	14.2
97°	4226.1	3426.5	931.8	4.1	7.6	11.4	14.3
97.5°	4301.5	3191.4	804.2	4.1	7.6	11.5	14.3
98°	4160.3	2951.4	677.2	4.1	7.7	11.6	14.4
98.5°	4020.0	2766.0	573.8	4.1	7.8	11.7	14.4
99°	3881.0	2654.4	502.8	4.0	7.9	11.8	14.5
99.5°	3742.4	2564.1	431.8	4.0	7.9	11.9	14.5
100°	3598.4	2548.1	360.8	3.9	8.0	12.0	14.6
100.5°	3343.7	2670.8	289.8	3.9	8.0	12.0	14.6
101°	3121.8	2893.0	220.7	3.8	8.1	12.1	14.7
101.5°	2922.5	3079.4	200.6	3.8	8.2	12.2	14.7
102°	2790.4	3049.7	205.8	3.8	8.2	12.2	14.8
102.5°	2812.0	2722.2	221.0	3.8	8.3	12.3	14.8
103°	2952.0	2116.5	214.7	3.8	8.3	12.4	14.8
103.5°	3137.7	1889.8	208.4	3.8	8.4	12.6	14.9
104°	3165.3	1671.7	200.9	3.8	8.5	12.6	14.9
104.5°	2867.7	1453.5	192.6	3.8	8.6	12.7	14.9
105°	2185.9	1234.8	158.0	3.8	8.6	12.8	15.0
105.5°	1783.1	1015.6	96.5	3.8	8.7	12.9	15.0
106°	1380.2	797.2	75.3	3.8	8.7	13.0	15.0
106.5°	977.5	579.0	65.1	3.8	8.8	13.0	15.1
107°	574.6	360.7	54.8	3.8	8.9	13.1	15.1
107.5°	177.2	142.5	46.6	3.8	8.9	13.1	15.1
108°	169.7	140.0	39.5	3.8	9.0	13.2	15.1
108.5°	169.0	135.2	32.9	3.8	9.0	13.2	15.1
109°	174.9	123.4	26.8	3.9	9.1	13.3	15.2
109.5°	180.5	110.7	21.8	3.9	9.1	13.3	15.2
110°	185.5	98.8	17.8	4.0	9.2	13.3	15.2
110.5°	179.8	86.4	14.5	4.0	9.2	13.4	15.2
111°	158.6	77.6	12.1	4.0	9.3	13.4	15.3
111.5°	141.2	72.1	10.0	4.1	9.3	13.5	15.3
112°	131.9	69.3	8.5	4.2	9.4	13.5	15.3

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	122.2	68.6	7.6	4.2	9.4	13.6	15.3
113°	111.2	68.9	6.8	4.2	9.5	13.6	15.3
113.5°	105.8	71.0	6.0	4.3	9.5	13.6	15.3
114°	104.2	74.6	5.3	4.4	9.6	13.7	15.3
114.5°	104.6	77.7	4.7	4.4	9.6	13.7	15.3
115°	104.8	79.8	4.3	4.5	9.6	13.7	15.3
115.5°	103.3	80.0	4.1	4.5	9.7	13.7	15.3
116°	103.1	76.9	3.8	4.6	9.7	13.8	15.3
116.5°	102.9	66.7	3.5	4.6	9.8	13.8	15.3
117°	102.2	54.3	3.3	4.7	9.8	13.8	15.4
117.5°	99.7	37.8	3.1	4.7	9.9	13.8	15.4
118°	95.2	21.6	2.9	4.8	9.9	13.9	15.4
118.5°	88.0	14.0	2.7	4.8	9.9	13.9	15.4
119°	78.0	11.5	2.5	4.9	10.0	13.9	15.4
119.5°	65.1	9.5	2.3	4.9	10.0	13.9	15.3
120°	47.6	7.6	2.2	5.0	10.0	14.0	15.3
120.5°	29.3	5.8	2.1	5.1	10.1	14.0	15.3
121°	16.7	4.2	2.0	5.1	10.1	14.0	15.3
121.5°	11.7	3.1	2.0	5.2	10.1	14.0	15.3
122°	9.1	2.3	1.9	5.2	10.2	14.0	15.3
122.5°	6.9	1.8	1.8	5.3	10.2	14.0	15.3
123°	5.2	1.5	1.7	5.3	10.2	14.0	15.3
123.5°	3.8	1.3	1.7	5.4	10.3	14.0	15.3
124°	2.9	1.2	1.7	5.4	10.3	14.0	15.3
124.5°	2.2	1.2	1.7	5.5	10.3	14.0	15.3
125°	1.7	1.2	1.8	5.6	10.4	14.1	15.3
125.5°	1.4	1.1	1.8	5.6	10.4	14.1	15.3
126°	1.3	1.1	1.8	5.7	10.4	14.1	15.2
126.5°	1.2	1.1	1.9	5.7	10.5	14.1	15.2
127°	1.2	1.1	1.9	5.8	10.5	14.1	15.2
127.5°	1.2	1.1	2.0	5.8	10.5	14.1	15.2
128°	1.2	1.1	2.0	5.9	10.5	14.1	15.2
128.5°	1.2	1.1	2.1	5.9	10.6	14.1	15.2
129°	1.2	1.1	2.1	6.0	10.6	14.1	15.1
129.5°	1.2	1.1	2.2	6.1	10.6	14.1	15.1
130°	1.1	1.1	2.2	6.1	10.7	14.0	15.1
130.5°	1.1	1.0	2.3	6.2	10.7	14.0	15.0
131°	1.1	1.0	2.3	6.2	10.7	14.0	15.0
131.5°	1.1	1.0	2.4	6.3	10.8	14.0	15.0
132°	1.1	1.0	2.5	6.3	10.8	14.0	14.9
132.5°	1.1	1.0	2.5	6.4	10.8	14.0	14.9
133°	1.0	1.0	2.6	6.4	10.8	14.0	14.9
133.5°	1.0	1.0	2.7	6.5	10.9	14.0	14.8
134°	0.9	1.0	2.7	6.6	10.9	14.0	14.8
134.5°	0.9	1.0	2.8	6.6	10.9	14.0	14.8

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.9	1.0	2.9	6.7	10.9	14.0	14.7
135.5°	0.9	1.0	2.9	6.7	11.0	14.0	14.7
136°	0.9	1.0	3.0	6.8	11.0	14.0	14.7
136.5°	0.9	1.0	3.1	6.8	11.0	14.0	14.7
137°	0.9	1.0	3.2	6.9	11.0	14.0	14.7
137.5°	0.9	1.0	3.2	6.9	11.0	13.9	14.7
138°	0.9	1.0	3.3	7.0	11.0	13.9	14.6
138.5°	0.9	1.1	3.4	7.0	11.1	13.9	14.6
139°	0.9	1.1	3.4	7.1	11.1	13.9	14.6
139.5°	0.9	1.1	3.5	7.2	11.1	13.9	14.5
140°	0.9	1.2	3.6	7.2	11.1	13.9	14.5
140.5°	0.9	1.2	3.7	7.3	11.1	13.8	14.4
141°	0.9	1.2	3.7	7.3	11.1	13.8	14.3
141.5°	0.9	1.3	3.8	7.4	11.2	13.8	14.3
142°	1.0	1.3	3.9	7.4	11.2	13.8	14.2
142.5°	1.0	1.3	3.9	7.5	11.2	13.7	14.1
143°	1.0	1.4	4.0	7.5	11.2	13.7	14.0
143.5°	1.0	1.4	4.1	7.6	11.2	13.7	14.0
144°	1.1	1.5	4.2	7.6	11.2	13.6	13.9
144.5°	1.1	1.5	4.2	7.7	11.2	13.6	13.8
145°	1.1	1.6	4.3	7.7	11.2	13.6	13.7
145.5°	1.2	1.6	4.4	7.8	11.2	13.5	13.6
146°	1.2	1.7	4.4	7.8	11.2	13.5	13.5
146.5°	1.3	1.7	4.5	7.9	11.2	13.4	13.5
147°	1.3	1.8	4.6	7.9	11.2	13.4	13.4
147.5°	1.3	1.9	4.7	7.9	11.2	13.4	13.3
148°	1.4	1.9	4.7	8.0	11.2	13.3	13.2
148.5°	1.4	2.0	4.8	8.0	11.2	13.3	13.1
149°	1.4	2.1	4.9	8.1	11.2	13.3	13.1
149.5°	1.5	2.1	4.9	8.1	11.2	13.2	13.0
150°	1.5	2.2	5.0	8.2	11.2	13.2	12.9
150.5°	1.5	2.2	5.1	8.2	11.2	13.2	12.8
151°	1.6	2.3	5.2	8.3	11.2	13.2	12.7
151.5°	1.6	2.4	5.2	8.3	11.2	13.1	12.6
152°	1.6	2.5	5.3	8.4	11.2	13.1	12.5
152.5°	1.7	2.5	5.4	8.4	11.2	13.1	12.4
153°	1.7	2.6	5.5	8.5	11.2	13.1	12.3
153.5°	1.7	2.7	5.5	8.5	11.2	13.1	12.2
154°	1.8	2.8	5.6	8.5	11.2	13.0	12.1
154.5°	1.8	2.9	5.7	8.6	11.2	13.0	12.0
155°	1.9	2.9	5.8	8.6	11.2	12.9	11.9
155.5°	1.9	3.0	5.8	8.6	11.2	12.9	11.8
156°	2.0	3.1	5.9	8.7	11.2	12.8	11.6
156.5°	2.0	3.2	6.0	8.7	11.2	12.8	11.5
157°	2.1	3.3	6.1	8.8	11.2	12.7	11.4

REPORT NUMBER: P1197134

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	2.2	3.3	6.2	8.8	11.2	12.6	11.3
158°	2.2	3.4	6.2	8.8	11.2	12.6	11.3
158.5°	2.3	3.5	6.3	8.9	11.2	12.5	11.2
159°	2.4	3.6	6.4	8.9	11.2	12.5	11.0
159.5°	2.5	3.7	6.5	8.9	11.2	12.4	10.9
160°	2.6	3.8	6.5	9.0	11.2	12.4	10.8
160.5°	2.7	3.9	6.6	9.0	11.2	12.3	10.7
161°	2.7	4.0	6.7	9.0	11.1	12.2	10.6
161.5°	2.8	4.1	6.8	9.1	11.1	12.2	10.5
162°	2.9	4.2	6.8	9.1	11.1	12.1	10.3
162.5°	3.0	4.3	6.9	9.2	11.1	12.0	10.2
163°	3.1	4.4	7.0	9.2	11.1	12.0	10.0
163.5°	3.2	4.6	7.0	9.2	11.1	11.9	9.9
164°	3.3	4.7	7.1	9.3	11.1	11.9	9.8
164.5°	3.4	4.8	7.2	9.3	11.1	11.8	9.6
165°	3.5	4.9	7.2	9.3	11.0	11.7	9.5
165.5°	3.6	5.0	7.3	9.3	11.0	11.7	9.4
166°	3.7	5.1	7.4	9.4	11.0	11.6	9.3
166.5°	3.8	5.2	7.5	9.4	11.0	11.6	9.2
167°	3.9	5.3	7.5	9.4	11.0	11.5	9.1
167.5°	4.0	5.5	7.6	9.5	11.0	11.5	8.9
168°	4.1	5.6	7.7	9.5	11.0	11.4	8.8
168.5°	4.1	5.7	7.7	9.5	10.9	11.3	8.7
169°	4.2	5.8	7.8	9.6	10.9	11.3	8.6
169.5°	4.3	5.9	7.9	9.6	10.9	11.2	8.5
170°	4.4	6.0	8.0	9.6	10.9	11.2	8.4
170.5°	4.5	6.1	8.0	9.6	10.9	11.1	8.2
171°	4.6	6.2	8.1	9.7	10.8	11.0	8.1
171.5°	4.6	6.3	8.2	9.7	10.8	10.9	8.0
172°	4.7	6.4	8.2	9.7	10.7	10.8	7.9
172.5°	4.8	6.5	8.3	9.7	10.7	10.7	7.7
173°	4.9	6.6	8.4	9.8	10.7	10.7	7.6
173.5°	5.0	6.6	8.4	9.8	10.6	10.6	7.5
174°	5.0	6.7	8.5	9.8	10.6	10.5	7.4
174.5°	5.1	6.8	8.6	9.8	10.6	10.4	7.2
175°	5.2	6.9	8.6	9.8	10.5	10.4	7.1
175.5°	5.3	7.0	8.7	9.9	10.5	10.3	7.0
176°	5.4	7.1	8.7	9.9	10.5	10.2	6.9
176.5°	5.5	7.2	8.8	9.9	10.4	10.2	6.8
177°	5.6	7.3	8.9	9.9	10.4	10.1	6.7
177.5°	5.6	7.4	8.9	9.9	10.4	10.0	6.6
178°	5.7	7.5	9.0	9.9	10.3	9.9	6.5
178.5°	5.8	7.5	9.1	9.9	10.3	9.9	6.4
179°	5.9	7.6	9.1	9.9	10.2	9.8	6.3
179.5°	6.0	7.7	9.2	10.0	10.2	9.7	6.2



REPORT NUMBER: P1197134
CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	6.1	6.1	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)