

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: P1197125

Luminaire Tested: AWPf150S-BZ-BZ-LOW-3000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197125
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 30
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19110 (1 lamp)
Luminaire Lumens: 13466 lumens
Efficiency: 70.5%
Efficacy: 134.1 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: B2 - 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

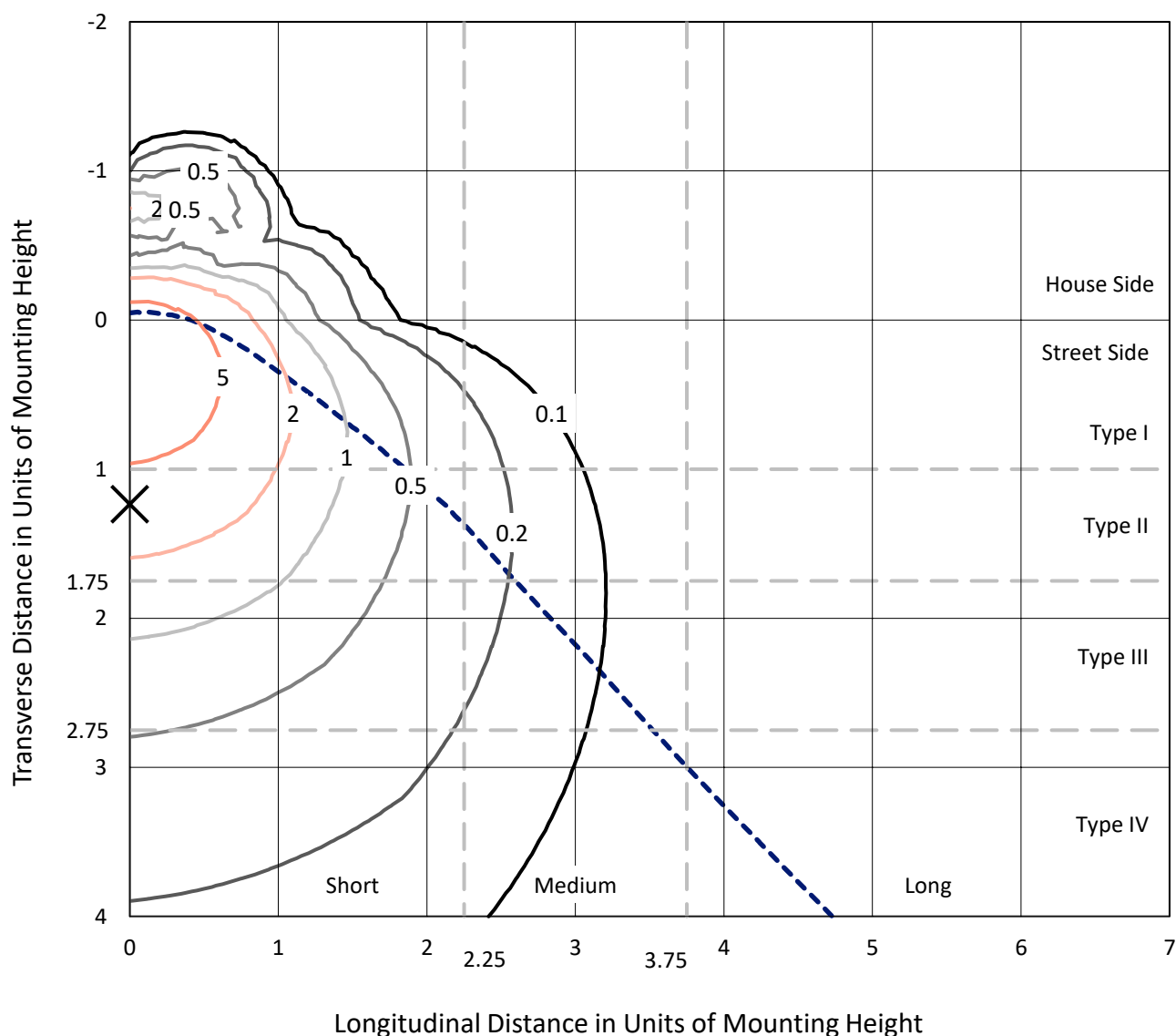
REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

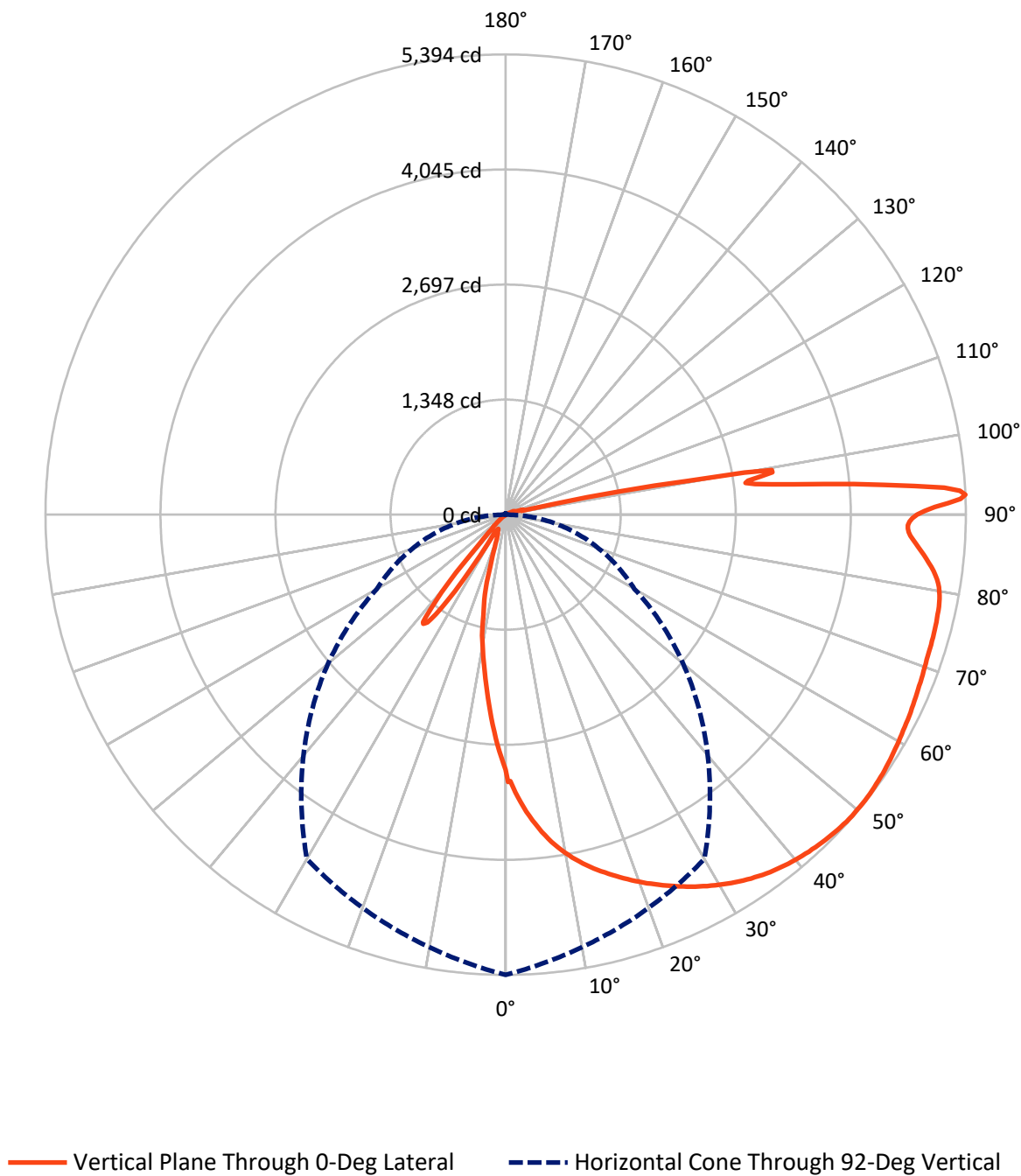


Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

Luminous Intensity Polar Plot



REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

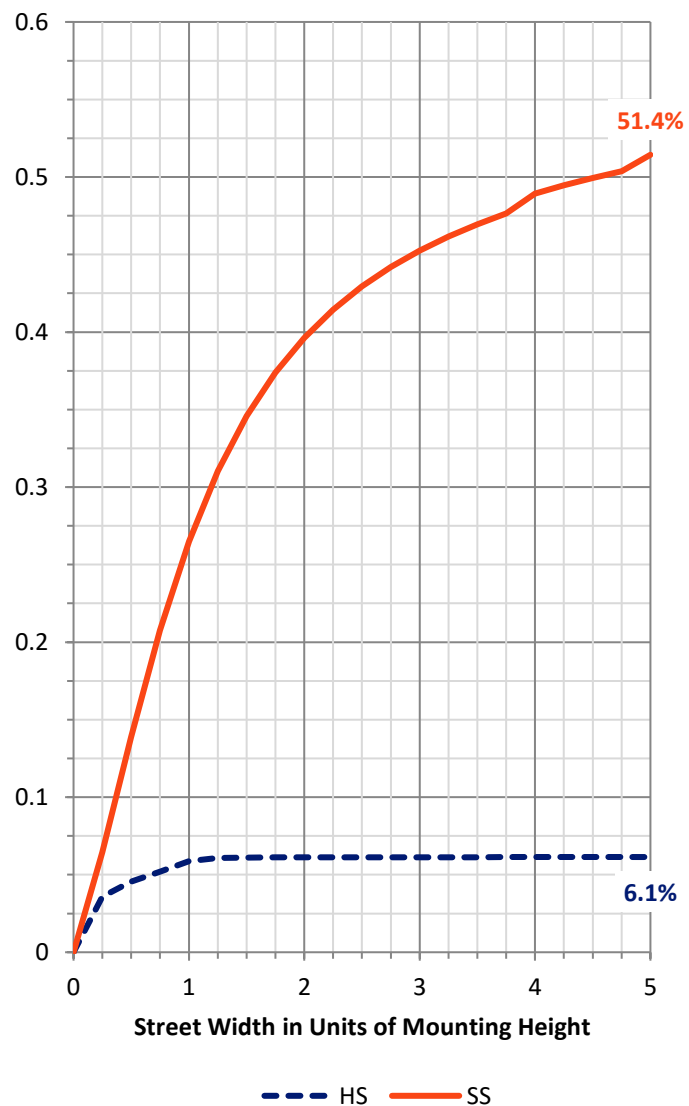
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.4	34.2	1220.6
	% Lamp	6.2	0.2	6.4
Street Side	Lumens	11008.7	1236.7	12245.4
	% Lamp	57.6	6.5	64.1
Total	Lumens	12195.0	1270.9	13466.0
	% Lamp	63.8	6.7	70.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	289.8	2.2	1.5
10°-20°	784.5	5.8	4.1
20°-30°	1147.6	8.5	6.0
30°-40°	1503.9	11.2	7.9
40°-50°	1774.2	13.2	9.3
50°-60°	1749.1	13.0	9.2
60°-70°	1724.8	12.8	9.0
70°-80°	1667.8	12.4	8.7
80°-90°	1553.3	11.5	8.1
90°-100°	1141.6	8.5	6.0
100°-110°	87.9	0.7	0.5
110°-120°	16.9	0.1	0.1
120°-130°	6.2	0.0	0.0
130°-140°	5.8	0.0	0.0
140°-150°	5.0	0.0	0.0
150°-160°	4.0	0.0	0.0
160°-170°	2.6	0.0	0.0
170°-180°	0.9	0.0	0.0
0°-90°	12195.0	90.6	63.8
0°-180°	13466.0	100.0	70.5

Coefficient of Utilization



REPORT NUMBER: P1197125

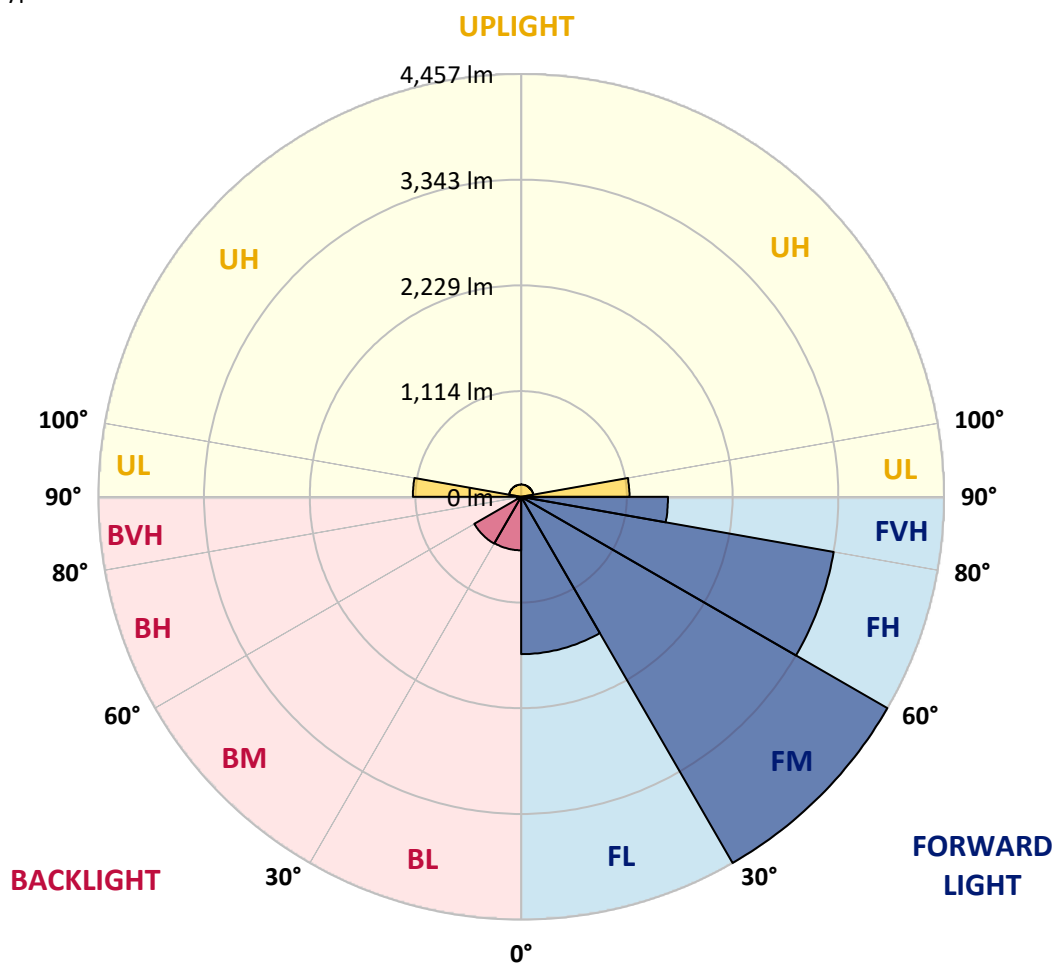
CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.1	8.7			
FM	(30°-60°)	4457.4	23.3			
FH	(60°-80°)	3345.4	17.5			G2/5000
FVH	(80°-90°)	1547.7	8.1			G5
BL	(0°-30°)	563.7	2.9	B2/1000		
BM	(30°-60°)	569.8	3.0	B1/1000		
BH	(60°-80°)	47.2	0.2	B0/110		G0/110
BVH	(80°-90°)	5.6	0.0			G0/10
UL	(90°-100°)	1141.6	6.0		U5	
UH	(100°-180°)	129.3	0.7		U3/500	
Trapped Light		5644.0	29.5			

BUG Rating: B2-U5-G5

Type IV Short



REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	3131.6	3131.6	3131.6	3131.6	3131.6	3131.6	3131.6
0.5°	3124.3	3183.8	3182.3	3173.5	3134.8	3055.8	2989.4
1°	3191.5	3236.8	3213.2	3172.7	3100.6	2995.0	2914.8
1.5°	3255.5	3292.9	3244.9	3171.7	3066.3	2935.5	2844.2
2°	3314.1	3345.2	3275.3	3170.3	3030.9	2872.8	2774.8
2.5°	3374.2	3394.2	3305.0	3167.8	2994.2	2809.8	2698.2
3°	3432.7	3445.3	3333.4	3165.5	2957.1	2745.8	2623.7
3.5°	3488.0	3492.3	3360.0	3162.2	2919.3	2678.2	2547.9
4°	3541.2	3536.8	3386.9	3158.5	2880.4	2613.1	2468.7
4.5°	3596.3	3581.4	3413.0	3154.7	2840.5	2545.3	2388.6
5°	3639.7	3625.1	3437.1	3150.5	2802.1	2477.8	2313.2
5.5°	3690.7	3664.8	3461.9	3145.0	2761.8	2408.9	2235.1
6°	3739.8	3706.7	3485.2	3139.7	2719.2	2337.8	2156.8
6.5°	3783.9	3746.2	3508.4	3133.6	2678.0	2270.4	2083.8
7°	3827.6	3784.5	3530.9	3126.9	2634.4	2201.8	2011.1
7.5°	3871.5	3819.8	3551.5	3120.8	2591.6	2134.1	1936.7
8°	3910.8	3855.9	3572.1	3113.5	2547.8	2066.5	1872.1
8.5°	3950.3	3889.3	3591.6	3105.2	2502.6	2000.8	1807.6
9°	3987.1	3921.8	3610.0	3097.4	2459.1	1938.4	1743.1
9.5°	4024.3	3953.6	3628.7	3087.9	2413.5	1879.1	1678.7
10°	4058.0	3984.3	3646.4	3079.1	2366.1	1819.9	1614.1
10.5°	4092.6	4013.0	3663.0	3069.5	2322.0	1760.7	1553.0
11°	4125.3	4041.3	3679.1	3059.0	2274.5	1701.5	1494.9
11.5°	4156.3	4068.7	3695.1	3048.2	2227.0	1642.4	1442.9
12°	4186.4	4093.8	3709.2	3037.8	2180.3	1587.1	1367.6
12.5°	4215.7	4118.5	3723.3	3025.6	2134.0	1533.0	1277.0
13°	4244.3	4142.8	3736.2	3013.6	2085.4	1480.9	1203.9
13.5°	4272.6	4165.3	3748.3	3001.2	2038.6	1431.2	1138.7
14°	4298.7	4184.3	3760.1	2987.8	1992.8	1385.0	1081.9
14.5°	4326.3	4203.0	3771.7	2973.7	1945.0	1319.6	1029.0
15°	4351.0	4221.9	3782.2	2959.6	1898.3	1243.6	970.2
15.5°	4378.6	4240.7	3793.0	2944.7	1853.4	1173.6	902.1
16°	4404.1	4259.6	3802.8	2928.6	1806.2	1114.3	821.3
16.5°	4429.7	4280.6	3811.1	2913.3	1761.6	1058.4	729.3
17°	4455.6	4296.4	3818.4	2897.0	1717.6	1008.7	641.4
17.5°	4481.7	4314.9	3825.5	2879.5	1671.7	955.9	562.3
18°	4505.2	4333.4	3832.6	2863.2	1627.7	899.0	498.6
18.5°	4530.3	4351.3	3838.7	2846.2	1585.6	832.2	443.1
19°	4554.8	4369.8	3844.1	2827.7	1542.1	756.7	398.0
19.5°	4578.5	4388.1	3849.2	2809.9	1500.2	673.7	359.6
20°	4601.6	4405.7	3853.6	2790.9	1461.2	597.2	326.4
20.5°	4626.7	4424.0	3858.3	2771.4	1422.1	527.6	300.4
21°	4647.9	4441.4	3862.0	2751.3	1383.4	468.6	279.3
21.5°	4671.5	4457.7	3865.0	2730.9	1347.0	419.1	263.2
22°	4695.1	4474.4	3867.3	2710.1	1311.7	379.2	251.8

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	4717.7	4490.3	3869.0	2689.4	1274.4	344.6	243.3
23°	4740.5	4506.6	3870.7	2668.6	1239.0	315.5	237.6
23.5°	4763.1	4521.9	3872.2	2646.8	1204.6	291.2	234.1
24°	4785.8	4538.2	3873.1	2624.5	1173.7	273.1	232.3
24.5°	4806.2	4553.0	3873.8	2603.4	1138.3	258.7	229.9
25°	4828.5	4568.5	3873.7	2580.4	1092.8	248.4	225.3
25.5°	4850.5	4583.5	3873.4	2556.7	1039.3	241.6	217.1
26°	4871.8	4598.5	3873.1	2533.6	989.0	237.1	207.7
26.5°	4892.1	4613.2	3871.3	2509.0	943.4	235.9	202.2
27°	4912.8	4626.3	3869.9	2483.5	901.6	237.3	196.9
27.5°	4932.1	4638.7	3867.6	2459.4	860.2	240.7	191.6
28°	4952.5	4652.3	3864.7	2433.4	821.8	246.1	186.3
28.5°	4969.1	4665.7	3861.9	2406.3	780.8	252.6	191.4
29°	4989.2	4679.1	3858.7	2380.2	740.2	259.9	198.8
29.5°	5007.0	4691.3	3854.7	2353.3	697.8	267.5	208.4
30°	5026.2	4705.3	3850.4	2324.2	658.7	273.8	217.6
30.5°	5044.5	4717.5	3846.1	2296.4	618.6	277.0	222.2
31°	5062.1	4729.3	3841.0	2267.9	577.3	274.7	225.1
31.5°	5079.0	4741.0	3835.6	2238.5	535.4	268.0	241.8
32°	5096.0	4752.6	3829.2	2208.7	497.9	258.1	402.8
32.5°	5111.7	4763.6	3823.2	2179.8	468.5	247.3	571.5
33°	5128.2	4775.3	3817.1	2148.6	447.2	238.3	740.2
33.5°	5143.6	4786.2	3810.8	2118.0	427.1	231.7	908.9
34°	5157.3	4795.9	3803.9	2088.4	407.1	225.8	1077.6
34.5°	5170.9	4804.9	3796.7	2057.4	387.0	220.5	1202.6
35°	5184.9	4814.6	3790.3	2026.3	367.0	217.9	1322.0
35.5°	5198.0	4823.7	3782.2	1995.5	347.0	212.2	1425.0
36°	5209.9	4832.7	3774.3	1965.6	335.7	206.3	1507.5
36.5°	5222.0	4840.5	3766.1	1934.9	325.8	200.1	1560.5
37°	5233.1	4848.1	3758.0	1904.9	318.0	193.6	1582.7
37.5°	5242.5	4854.7	3750.0	1875.2	310.5	193.8	1601.4
38°	5253.6	4861.8	3741.9	1845.4	304.0	194.9	1588.8
38.5°	5263.3	4868.8	3733.2	1815.4	297.3	197.2	1521.4
39°	5272.2	4873.4	3724.2	1784.7	291.2	201.3	1402.7
39.5°	5281.6	4878.4	3715.6	1752.5	285.7	211.2	1294.1
40°	5289.2	4883.5	3705.9	1719.3	281.6	350.4	1181.5
40.5°	5297.1	4887.3	3696.8	1682.6	278.0	492.6	1048.5
41°	5305.1	4891.5	3686.9	1643.5	274.5	634.6	894.2
41.5°	5313.4	4894.7	3676.3	1603.1	270.6	776.6	736.8
42°	5319.8	4897.7	3665.8	1562.7	266.8	918.5	575.7
42.5°	5327.6	4899.1	3654.7	1519.6	262.6	1029.0	456.1
43°	5334.2	4901.5	3644.2	1475.8	258.6	1088.0	378.1
43.5°	5339.4	4902.7	3632.9	1431.9	254.5	1116.2	323.8
44°	5345.1	4903.8	3620.5	1390.0	250.0	1131.1	281.6
44.5°	5350.8	4903.7	3608.6	1349.2	245.4	1140.7	248.2

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	5356.5	4904.8	3596.2	1309.8	240.3	1128.1	221.4
45.5°	5361.6	4904.2	3582.9	1268.5	234.9	1085.9	204.7
46°	5366.0	4904.6	3569.4	1228.7	229.6	1017.4	188.3
46.5°	5369.9	4903.3	3555.8	1190.5	224.3	956.8	171.9
47°	5373.1	4901.8	3541.6	1152.5	219.3	891.7	155.5
47.5°	5376.2	4899.8	3527.5	1114.9	214.4	829.0	139.2
48°	5378.8	4897.8	3512.4	1079.2	209.1	771.2	126.4
48.5°	5380.6	4895.0	3497.7	1042.3	203.7	717.0	112.6
49°	5380.8	4891.7	3482.3	1009.1	198.3	665.1	98.9
49.5°	5381.1	4887.7	3467.1	978.2	192.4	616.3	86.5
50°	5381.2	4883.7	3451.6	947.9	186.5	561.6	73.6
50.5°	5381.5	4879.2	3434.0	916.9	181.2	507.7	60.9
51°	5381.6	4875.1	3416.9	889.1	175.7	456.9	47.3
51.5°	5380.3	4869.9	3398.6	862.7	170.5	407.2	36.1
52°	5379.6	4865.7	3381.1	837.1	165.5	362.7	27.7
52.5°	5376.4	4859.8	3362.2	812.3	160.8	324.8	22.8
53°	5374.4	4854.4	3343.6	787.6	154.0	289.1	20.8
53.5°	5369.8	4848.6	3323.9	762.1	141.6	252.0	19.2
54°	5367.8	4843.0	3304.6	733.9	131.4	212.8	17.5
54.5°	5365.1	4836.6	3284.7	699.2	122.3	175.6	15.7
55°	5361.4	4831.7	3264.4	659.6	113.2	138.6	14.0
55.5°	5356.8	4825.4	3243.2	617.1	107.6	101.7	12.6
56°	5352.9	4818.8	3221.3	572.0	101.9	64.7	11.2
56.5°	5348.8	4811.3	3199.9	526.9	91.3	27.7	9.5
57°	5343.7	4805.3	3177.7	484.2	78.1	13.7	8.4
57.5°	5338.4	4798.0	3156.1	447.8	70.7	12.1	7.7
58°	5333.4	4789.9	3134.2	422.1	66.8	12.1	7.1
58.5°	5328.0	4783.0	3110.5	403.4	64.4	12.0	6.5
59°	5323.0	4774.1	3086.5	389.7	62.3	11.9	6.1
59.5°	5318.3	4765.8	3063.7	379.7	60.5	11.7	5.8
60°	5313.1	4755.9	3039.8	372.0	58.7	11.4	5.5
60.5°	5309.1	4747.0	3016.9	365.3	56.5	10.9	5.4
61°	5303.3	4737.3	2992.8	358.8	53.0	10.0	5.3
61.5°	5299.4	4728.4	2969.7	352.6	50.0	9.5	5.2
62°	5294.1	4716.9	2948.0	346.1	47.3	9.1	5.1
62.5°	5290.1	4705.3	2925.3	339.4	44.3	8.6	5.1
63°	5285.0	4694.3	2904.3	332.5	40.4	8.2	5.0
63.5°	5281.5	4683.2	2882.5	325.8	35.9	7.9	5.0
64°	5276.4	4670.0	2861.0	319.2	32.4	7.5	4.9
64.5°	5271.1	4658.1	2838.5	312.6	30.0	7.1	4.9
65°	5265.9	4645.9	2816.1	305.7	27.7	6.8	4.9
65.5°	5261.3	4632.7	2793.5	298.4	25.7	6.4	4.9
66°	5256.7	4619.1	2770.4	291.0	23.5	6.1	5.0
66.5°	5251.8	4608.8	2746.5	284.1	21.2	5.8	5.1
67°	5246.9	4596.6	2721.0	277.3	18.8	5.5	5.2

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	5242.8	4584.1	2696.0	270.4	16.2	5.3	5.3
68°	5239.5	4573.5	2670.2	263.3	13.6	5.0	5.5
68.5°	5235.7	4563.0	2643.5	255.6	11.0	4.8	5.6
69°	5231.6	4552.0	2616.0	247.8	8.6	4.6	5.8
69.5°	5228.4	4542.6	2587.2	240.6	6.4	4.4	5.9
70°	5225.0	4533.1	2558.0	233.7	5.4	4.3	6.0
70.5°	5220.5	4523.6	2528.7	226.7	5.1	4.2	6.2
71°	5218.6	4516.6	2496.4	219.1	5.0	4.2	6.3
71.5°	5216.5	4509.0	2464.1	211.8	4.9	4.2	6.4
72°	5214.6	4502.3	2431.3	204.6	4.8	4.3	6.5
72.5°	5213.9	4495.6	2399.8	196.6	4.5	4.3	6.7
73°	5212.5	4490.8	2368.6	188.6	4.2	4.3	6.8
73.5°	5210.6	4485.9	2338.1	180.5	4.1	4.3	7.0
74°	5209.2	4480.6	2306.5	172.5	4.1	4.4	7.2
74.5°	5206.6	4475.7	2274.2	163.8	4.1	4.5	7.4
75°	5204.6	4469.1	2242.2	154.6	4.1	4.6	7.6
75.5°	5203.8	4464.8	2207.4	145.3	4.1	4.8	7.8
76°	5200.6	4461.2	2166.6	135.9	4.1	4.9	8.0
76.5°	5197.5	4458.3	2124.4	126.7	4.2	5.1	8.2
77°	5195.5	4455.8	2082.5	117.6	4.2	5.2	8.3
77.5°	5191.7	4455.3	2039.2	108.5	4.2	5.4	8.5
78°	5186.3	4453.7	1997.3	99.6	4.2	5.5	8.6
78.5°	5180.5	4449.5	1957.8	91.4	4.2	5.7	8.8
79°	5172.8	4443.3	1921.7	82.8	4.3	5.8	9.0
79.5°	5162.1	4436.8	1886.6	74.5	4.3	6.0	9.1
80°	5149.3	4432.3	1851.2	66.2	4.4	6.1	9.3
80.5°	5132.0	4427.7	1815.5	58.7	4.4	6.3	9.5
81°	5111.9	4423.4	1783.2	52.2	4.5	6.4	9.6
81.5°	5086.5	4418.7	1751.7	46.5	4.5	6.6	9.8
82°	5059.8	4413.3	1721.2	41.8	4.6	6.7	10.0
82.5°	5029.1	4409.6	1692.0	37.4	4.7	6.8	10.1
83°	4994.2	4404.3	1659.3	33.6	4.7	7.0	10.3
83.5°	4958.3	4398.1	1627.3	30.2	4.8	7.1	10.4
84°	4925.0	4392.2	1595.4	26.9	4.9	7.3	10.6
84.5°	4888.0	4385.4	1563.4	24.1	5.0	7.4	10.7
85°	4851.5	4375.0	1533.4	21.5	5.0	7.6	10.9
85.5°	4818.8	4366.9	1506.5	19.2	5.1	7.7	11.1
86°	4783.3	4363.8	1482.1	17.0	5.2	7.9	11.2
86.5°	4752.1	4375.0	1461.9	15.0	5.3	8.1	11.4
87°	4728.1	4400.8	1446.2	13.2	5.4	8.2	11.5
87.5°	4717.3	4441.5	1440.0	11.4	5.5	8.4	11.6
88°	4717.9	4502.7	1443.8	9.8	5.6	8.5	11.8
88.5°	4735.1	4594.5	1459.0	8.3	5.7	8.7	11.9
89°	4766.2	4698.2	1488.8	7.2	5.8	8.8	12.0
89.5°	4824.2	4820.5	1534.6	6.2	5.9	8.9	12.1

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	4913.3	4934.1	1584.4	5.2	6.0	9.1	12.3
90.5°	5031.7	5015.0	1638.5	4.9	6.2	9.2	12.4
91°	5187.6	5016.5	1691.2	4.9	6.3	9.4	12.5
91.5°	5335.2	4915.3	1732.6	4.8	6.4	9.5	12.6
92°	5393.8	4658.0	1742.9	4.7	6.5	9.7	12.7
92.5°	5333.8	4276.6	1718.9	4.6	6.6	9.8	12.9
93°	5150.3	3819.9	1651.2	4.5	6.7	9.9	13.0
93.5°	4798.4	3404.3	1536.0	4.5	6.8	10.0	13.1
94°	4447.2	3066.0	1359.2	4.4	6.8	10.1	13.2
94.5°	4097.2	2837.6	1147.2	4.4	6.9	10.2	13.2
95°	3747.8	2670.5	931.2	4.3	7.0	10.3	13.3
95.5°	3401.8	2606.3	738.8	4.3	7.1	10.4	13.4
96°	3138.4	2683.2	601.4	4.2	7.2	10.5	13.5
96.5°	2944.0	2883.5	533.7	4.2	7.2	10.7	13.5
97°	2834.8	3076.2	465.9	4.1	7.3	10.8	13.6
97.5°	2869.7	3131.6	398.2	4.1	7.4	10.9	13.7
98°	3011.2	2882.4	330.4	4.1	7.5	11.1	13.8
98.5°	3165.5	2334.1	262.9	4.0	7.6	11.2	13.9
99°	3162.1	1683.8	252.4	4.0	7.7	11.3	14.0
99.5°	2841.6	1303.2	253.3	4.0	7.8	11.4	14.1
100°	2169.8	937.1	243.1	3.9	7.9	11.5	14.2
100.5°	1771.7	571.0	232.1	3.9	7.9	11.6	14.2
101°	1373.6	204.9	218.2	3.9	8.0	11.7	14.3
101.5°	979.1	189.3	194.7	3.8	8.1	11.9	14.3
102°	584.6	177.7	186.5	3.8	8.1	11.9	14.4
102.5°	200.8	166.2	177.4	3.8	8.2	12.0	14.4
103°	190.3	154.4	153.3	3.8	8.3	12.1	14.4
103.5°	189.3	157.4	92.3	3.8	8.3	12.2	14.5
104°	197.3	153.4	69.1	3.8	8.4	12.2	14.5
104.5°	205.7	143.2	58.5	3.8	8.4	12.3	14.6
105°	210.0	129.2	49.1	3.8	8.5	12.4	14.6
105.5°	205.6	115.8	41.8	3.8	8.6	12.5	14.6
106°	184.0	101.0	35.0	3.8	8.6	12.6	14.7
106.5°	163.1	90.2	29.3	3.8	8.7	12.7	14.7
107°	148.3	82.6	24.0	3.8	8.8	12.8	14.7
107.5°	133.2	77.5	19.4	3.8	8.8	12.9	14.8
108°	120.6	74.6	15.9	3.8	8.9	12.9	14.8
108.5°	113.2	72.7	12.9	3.8	9.0	13.0	14.9
109°	110.3	72.2	10.7	3.9	9.1	13.1	14.9
109.5°	110.3	74.4	9.5	3.9	9.1	13.1	14.9
110°	111.6	77.7	8.6	4.0	9.2	13.2	15.0
110.5°	111.8	80.3	7.7	4.0	9.2	13.2	15.0
111°	110.7	81.7	6.9	4.1	9.3	13.3	15.0
111.5°	109.4	81.1	6.0	4.1	9.3	13.3	15.0
112°	107.2	78.8	5.4	4.2	9.4	13.4	15.0

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	102.0	75.5	4.9	4.2	9.4	13.4	15.1
113°	97.1	67.6	4.4	4.3	9.5	13.5	15.1
113.5°	90.6	52.6	4.1	4.3	9.5	13.5	15.1
114°	81.4	35.0	3.7	4.4	9.6	13.5	15.1
114.5°	70.3	19.4	3.4	4.5	9.6	13.6	15.1
115°	57.9	12.2	3.2	4.5	9.7	13.6	15.1
115.5°	46.7	9.5	3.0	4.6	9.8	13.7	15.2
116°	35.4	7.3	2.9	4.6	9.8	13.7	15.2
116.5°	22.2	5.4	2.7	4.7	9.8	13.7	15.2
117°	13.4	3.8	2.5	4.8	9.9	13.8	15.2
117.5°	9.5	2.8	2.3	4.8	9.9	13.8	15.2
118°	7.1	2.1	2.2	4.9	10.0	13.8	15.2
118.5°	5.2	1.8	2.1	4.9	10.0	13.8	15.2
119°	3.8	1.5	2.0	5.0	10.1	13.9	15.2
119.5°	2.9	1.4	1.9	5.1	10.1	13.9	15.2
120°	2.3	1.3	1.8	5.1	10.2	13.9	15.2
120.5°	1.9	1.3	1.8	5.2	10.2	13.9	15.2
121°	1.6	1.2	1.8	5.3	10.2	14.0	15.2
121.5°	1.4	1.2	1.8	5.3	10.3	14.0	15.2
122°	1.4	1.1	1.8	5.4	10.3	14.0	15.2
122.5°	1.3	1.1	1.8	5.4	10.3	14.0	15.2
123°	1.3	1.1	1.8	5.5	10.4	14.0	15.2
123.5°	1.3	1.1	1.8	5.6	10.4	14.1	15.2
124°	1.2	1.1	1.9	5.6	10.4	14.1	15.2
124.5°	1.2	1.1	1.9	5.7	10.5	14.1	15.2
125°	1.2	1.1	2.0	5.7	10.5	14.1	15.2
125.5°	1.2	1.1	2.0	5.8	10.5	14.1	15.2
126°	1.2	1.1	2.1	5.9	10.6	14.1	15.2
126.5°	1.2	1.1	2.1	5.9	10.6	14.1	15.2
127°	1.2	1.1	2.2	6.0	10.7	14.1	15.2
127.5°	1.2	1.0	2.2	6.1	10.7	14.1	15.2
128°	1.1	1.0	2.3	6.1	10.7	14.1	15.2
128.5°	1.1	1.0	2.4	6.2	10.8	14.1	15.2
129°	1.1	1.0	2.4	6.2	10.8	14.1	15.2
129.5°	1.0	1.0	2.5	6.3	10.8	14.1	15.2
130°	1.0	1.0	2.6	6.4	10.8	14.1	15.2
130.5°	0.9	1.0	2.6	6.4	10.9	14.1	15.1
131°	0.9	1.0	2.7	6.5	10.9	14.1	15.1
131.5°	0.9	1.0	2.8	6.5	11.0	14.1	15.1
132°	0.9	1.0	2.8	6.6	11.0	14.1	15.1
132.5°	0.9	1.0	2.9	6.7	11.0	14.1	15.0
133°	0.9	1.0	3.0	6.7	11.0	14.1	15.0
133.5°	0.9	1.0	3.1	6.8	11.1	14.1	15.0
134°	0.9	1.1	3.1	6.8	11.1	14.1	15.0
134.5°	0.9	1.1	3.2	6.9	11.1	14.1	14.9

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.9	1.1	3.3	7.0	11.2	14.1	14.9
135.5°	0.9	1.2	3.3	7.0	11.2	14.1	14.9
136°	1.0	1.2	3.4	7.1	11.2	14.1	14.9
136.5°	1.0	1.2	3.5	7.1	11.2	14.1	14.8
137°	1.0	1.3	3.6	7.2	11.3	14.1	14.8
137.5°	1.0	1.3	3.7	7.3	11.3	14.1	14.8
138°	1.0	1.3	3.7	7.3	11.3	14.1	14.8
138.5°	1.1	1.4	3.8	7.4	11.3	14.1	14.8
139°	1.1	1.4	3.9	7.4	11.4	14.1	14.8
139.5°	1.1	1.5	4.0	7.5	11.4	14.1	14.8
140°	1.2	1.5	4.0	7.5	11.4	14.1	14.8
140.5°	1.2	1.6	4.1	7.6	11.4	14.1	14.7
141°	1.2	1.6	4.2	7.7	11.5	14.1	14.7
141.5°	1.3	1.7	4.3	7.7	11.5	14.1	14.6
142°	1.3	1.7	4.3	7.8	11.5	14.0	14.6
142.5°	1.3	1.8	4.4	7.8	11.5	14.0	14.5
143°	1.4	1.8	4.5	7.9	11.5	14.0	14.4
143.5°	1.4	1.9	4.6	7.9	11.5	14.0	14.4
144°	1.4	2.0	4.6	8.0	11.5	14.0	14.3
144.5°	1.5	2.0	4.7	8.0	11.5	13.9	14.2
145°	1.5	2.1	4.8	8.1	11.6	13.9	14.1
145.5°	1.5	2.1	4.9	8.1	11.6	13.9	14.1
146°	1.6	2.2	4.9	8.2	11.6	13.8	14.0
146.5°	1.6	2.3	5.0	8.2	11.6	13.8	13.9
147°	1.6	2.4	5.1	8.3	11.6	13.8	13.9
147.5°	1.7	2.4	5.2	8.3	11.6	13.7	13.8
148°	1.7	2.5	5.2	8.4	11.6	13.7	13.7
148.5°	1.7	2.6	5.3	8.4	11.6	13.7	13.6
149°	1.8	2.7	5.4	8.5	11.6	13.6	13.6
149.5°	1.8	2.7	5.5	8.5	11.6	13.6	13.5
150°	1.8	2.8	5.5	8.6	11.6	13.6	13.5
150.5°	1.9	2.9	5.6	8.6	11.7	13.6	13.4
151°	1.9	3.0	5.7	8.7	11.7	13.5	13.3
151.5°	2.0	3.0	5.8	8.7	11.7	13.5	13.3
152°	2.1	3.1	5.9	8.8	11.7	13.5	13.2
152.5°	2.1	3.2	5.9	8.8	11.7	13.5	13.1
153°	2.2	3.3	6.0	8.9	11.7	13.5	13.0
153.5°	2.2	3.4	6.1	8.9	11.7	13.4	12.9
154°	2.3	3.5	6.2	9.0	11.7	13.4	12.9
154.5°	2.4	3.6	6.3	9.0	11.7	13.4	12.8
155°	2.5	3.6	6.4	9.1	11.7	13.4	12.7
155.5°	2.5	3.7	6.4	9.1	11.8	13.4	12.6
156°	2.6	3.8	6.5	9.2	11.8	13.3	12.5
156.5°	2.7	3.9	6.6	9.2	11.8	13.3	12.4
157°	2.8	4.0	6.7	9.2	11.8	13.2	12.3

REPORT NUMBER: P1197125

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	2.9	4.1	6.7	9.3	11.8	13.2	12.2
158°	3.0	4.2	6.8	9.3	11.8	13.1	12.1
158.5°	3.1	4.3	6.9	9.4	11.7	13.1	12.1
159°	3.2	4.5	7.0	9.4	11.7	13.0	12.0
159.5°	3.3	4.6	7.1	9.4	11.7	13.0	11.9
160°	3.4	4.7	7.1	9.5	11.7	12.9	11.8
160.5°	3.5	4.8	7.2	9.5	11.7	12.9	11.7
161°	3.6	4.9	7.3	9.6	11.7	12.8	11.6
161.5°	3.7	5.0	7.4	9.6	11.7	12.8	11.5
162°	3.8	5.1	7.4	9.6	11.7	12.7	11.4
162.5°	3.9	5.3	7.5	9.7	11.7	12.6	11.3
163°	4.0	5.4	7.6	9.7	11.6	12.6	11.1
163.5°	4.1	5.5	7.7	9.7	11.6	12.5	11.0
164°	4.1	5.6	7.7	9.8	11.6	12.5	10.9
164.5°	4.2	5.7	7.8	9.8	11.6	12.4	10.7
165°	4.3	5.8	7.9	9.9	11.6	12.4	10.6
165.5°	4.4	5.9	7.9	9.9	11.6	12.3	10.5
166°	4.5	6.0	8.0	9.9	11.6	12.3	10.4
166.5°	4.6	6.1	8.1	10.0	11.6	12.2	10.3
167°	4.6	6.2	8.2	10.0	11.6	12.2	10.2
167.5°	4.7	6.3	8.2	10.0	11.6	12.1	10.1
168°	4.8	6.4	8.3	10.1	11.6	12.0	10.0
168.5°	4.9	6.5	8.4	10.1	11.5	12.0	9.9
169°	5.0	6.6	8.5	10.1	11.5	11.9	9.8
169.5°	5.1	6.7	8.5	10.2	11.5	11.9	9.6
170°	5.2	6.8	8.6	10.2	11.5	11.8	9.5
170.5°	5.3	6.9	8.7	10.2	11.5	11.8	9.4
171°	5.4	6.9	8.7	10.3	11.4	11.7	9.3
171.5°	5.4	7.0	8.8	10.3	11.4	11.6	9.2
172°	5.5	7.1	8.9	10.3	11.3	11.5	9.0
172.5°	5.6	7.2	8.9	10.3	11.3	11.4	8.9
173°	5.7	7.3	9.0	10.3	11.3	11.3	8.7
173.5°	5.8	7.4	9.0	10.4	11.2	11.3	8.6
174°	5.8	7.5	9.1	10.4	11.2	11.2	8.5
174.5°	5.9	7.6	9.2	10.4	11.2	11.1	8.4
175°	6.0	7.7	9.2	10.4	11.1	11.1	8.2
175.5°	6.1	7.7	9.3	10.4	11.1	11.0	8.1
176°	6.2	7.8	9.4	10.4	11.1	10.9	8.0
176.5°	6.3	7.9	9.4	10.5	11.0	10.8	7.8
177°	6.4	8.0	9.5	10.5	11.0	10.8	7.7
177.5°	6.5	8.1	9.5	10.5	10.9	10.7	7.6
178°	6.6	8.2	9.6	10.5	10.9	10.6	7.5
178.5°	6.7	8.3	9.7	10.5	10.9	10.5	7.4
179°	6.8	8.4	9.7	10.5	10.8	10.5	7.3
179.5°	6.9	8.5	9.8	10.5	10.8	10.4	7.2



REPORT NUMBER: P1197125
CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	7.0	7.0	7.0	7.0	7.0	7.0	7.0

(END OF REPORT)