

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: P1197128

Luminaire Tested: AWPf150S-BZ-BZ-LOW-4000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197128
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-4000K-POSITION 30
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19110 (1 lamp)
Luminaire Lumens: 14029.3 lumens
Efficiency: 73.4%
Efficacy: 144.0 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

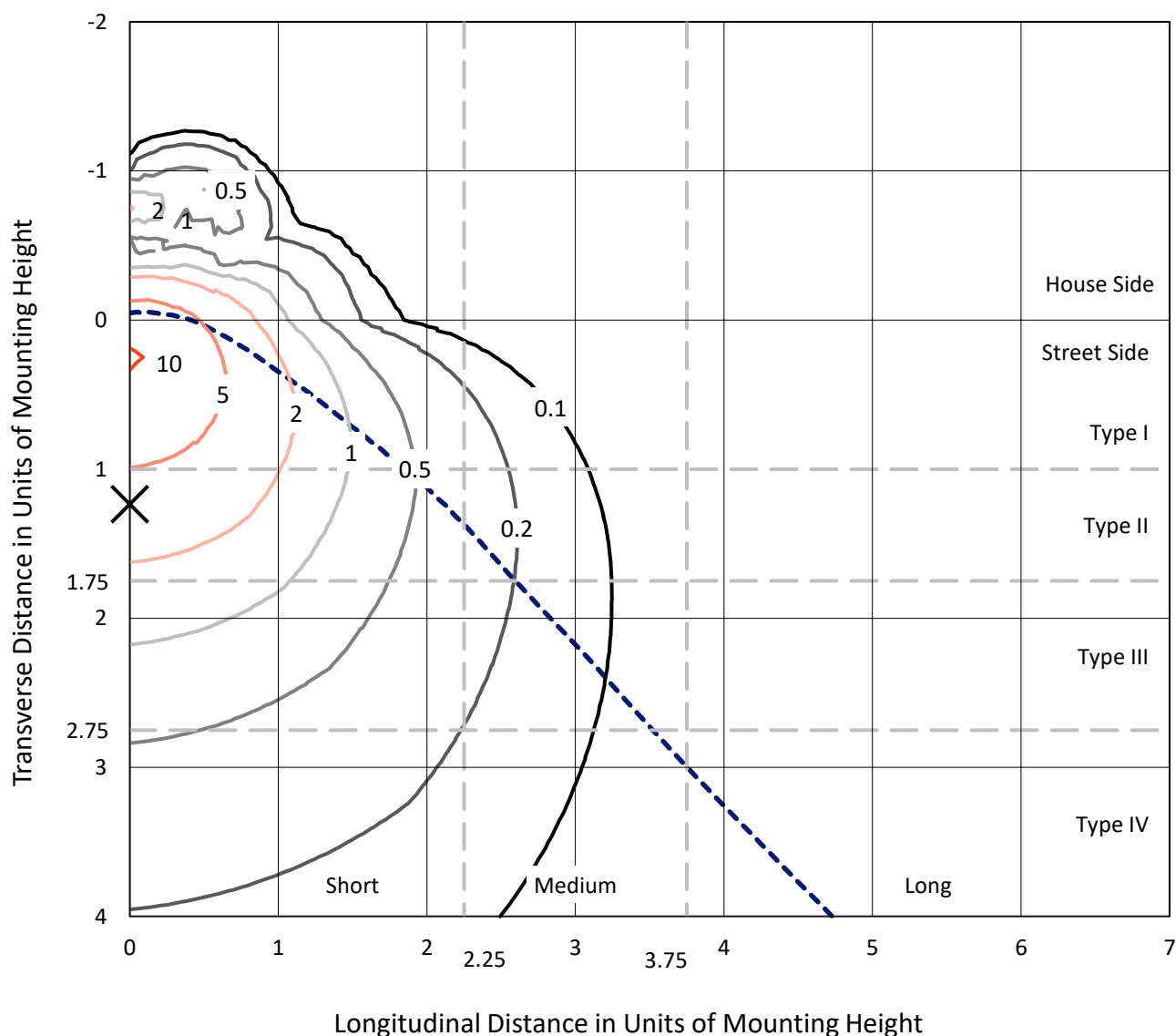
Input Watts (W): 97.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

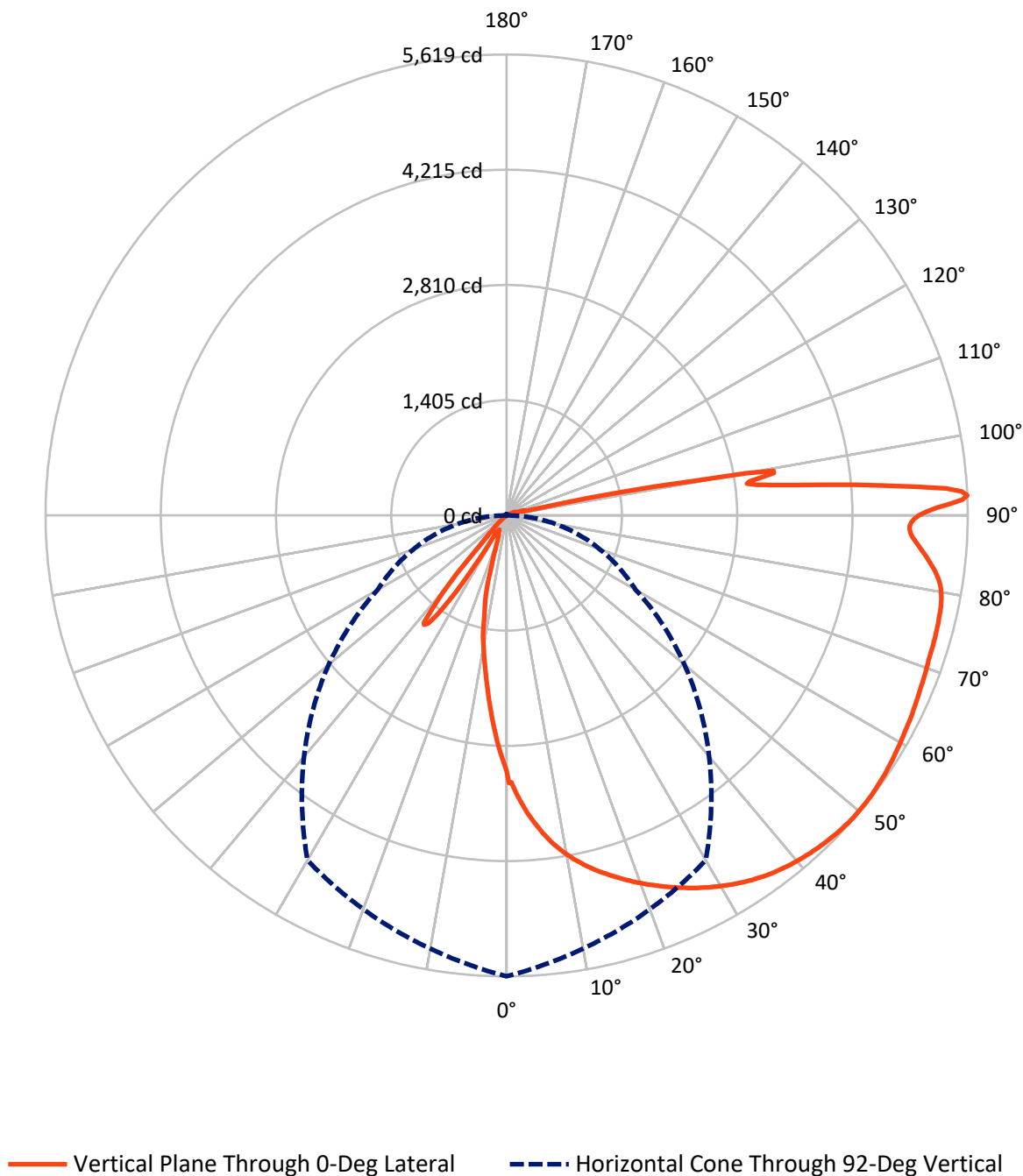


Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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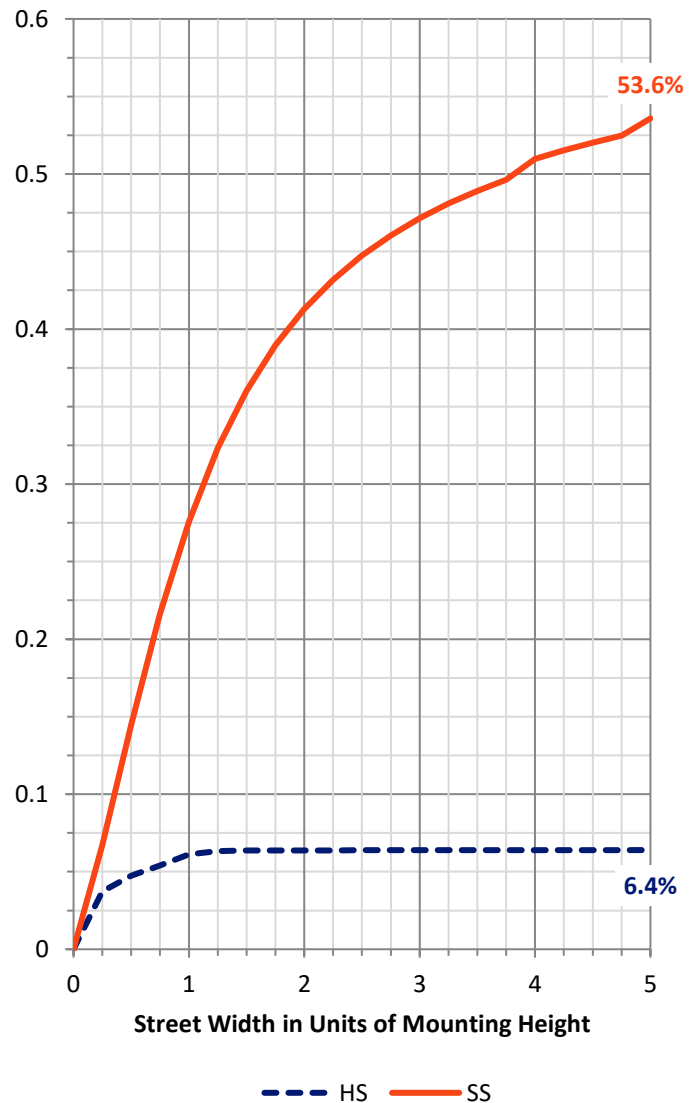
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1236.0	35.6	1271.6
	% Lamp	6.5	0.2	6.7
Street Side	Lumens	11469.2	1288.5	12757.7
	% Lamp	60.0	6.7	66.8
Total	Lumens	12705.2	1324.1	14029.3
	% Lamp	66.5	6.9	73.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	301.9	2.2	1.6
10°-20°	817.3	5.8	4.3
20°-30°	1195.6	8.5	6.3
30°-40°	1566.8	11.2	8.2
40°-50°	1848.5	13.2	9.7
50°-60°	1822.3	13.0	9.5
60°-70°	1797.0	12.8	9.4
70°-80°	1737.6	12.4	9.1
80°-90°	1618.3	11.5	8.5
90°-100°	1189.4	8.5	6.2
100°-110°	91.6	0.7	0.5
110°-120°	17.6	0.1	0.1
120°-130°	6.5	0.0	0.0
130°-140°	6.0	0.0	0.0
140°-150°	5.3	0.0	0.0
150°-160°	4.1	0.0	0.0
160°-170°	2.7	0.0	0.0
170°-180°	0.9	0.0	0.0
0°-90°	12705.2	90.6	66.5
0°-180°	14029.3	100.0	73.4

Coefficient of Utilization



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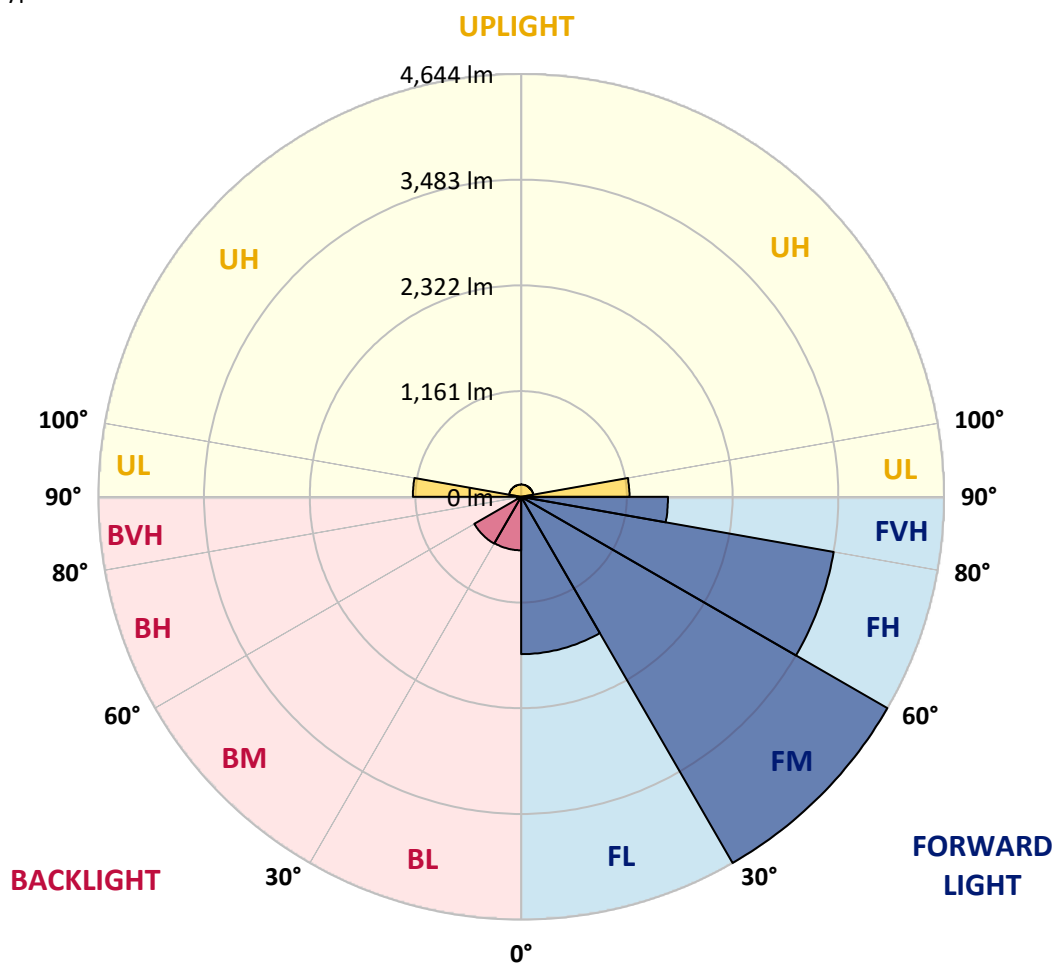
CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1727.5	9.0			
FM	(30°-60°)	4643.9	24.3			
FH	(60°-80°)	3485.4	18.2			G2/5000
FVH	(80°-90°)	1612.4	8.4			G5
BL	(0°-30°)	587.3	3.1	B2/1000		
BM	(30°-60°)	593.7	3.1	B1/1000		
BH	(60°-80°)	49.2	0.3	B0/110		G0/110
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	1189.4	6.2		U5	
UH	(100°-180°)	134.7	0.7		U3/500	
Trapped Light		5080.7	26.6			

BUG Rating: B2-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6
0.5°	3255.0	3317.0	3315.4	3306.3	3265.9	3183.6	3114.5
1°	3325.0	3372.2	3347.7	3305.4	3230.3	3120.3	3036.7
1.5°	3391.7	3430.6	3380.7	3304.4	3194.6	3058.4	2963.2
2°	3452.7	3485.1	3412.3	3302.9	3157.7	2993.0	2890.9
2.5°	3515.3	3536.2	3443.3	3300.3	3119.5	2927.3	2811.0
3°	3576.3	3589.5	3472.8	3298.0	3080.8	2860.7	2733.5
3.5°	3633.9	3638.4	3500.5	3294.5	3041.4	2790.3	2654.5
4°	3689.4	3684.8	3528.6	3290.6	3000.9	2722.5	2571.9
4.5°	3746.7	3731.2	3555.8	3286.7	2959.4	2651.8	2488.5
5°	3792.0	3776.8	3580.9	3282.3	2919.3	2581.5	2410.0
5.5°	3845.1	3818.1	3606.8	3276.6	2877.3	2509.6	2328.6
6°	3896.2	3861.7	3631.0	3271.1	2832.9	2435.6	2247.1
6.5°	3942.2	3902.9	3655.1	3264.7	2790.0	2365.4	2171.0
7°	3987.7	3942.8	3678.6	3257.7	2744.6	2293.9	2095.2
7.5°	4033.5	3979.6	3700.0	3251.3	2700.0	2223.4	2017.7
8°	4074.4	4017.2	3721.5	3243.8	2654.4	2153.0	1950.4
8.5°	4115.5	4052.0	3741.9	3235.1	2607.3	2084.5	1883.2
9°	4153.9	4085.9	3761.0	3226.9	2561.9	2019.5	1816.0
9.5°	4192.6	4119.0	3780.5	3217.1	2514.5	1957.8	1748.9
10°	4227.8	4151.0	3798.9	3207.9	2465.1	1896.1	1681.6
10.5°	4263.8	4180.9	3816.2	3197.9	2419.1	1834.4	1618.0
11°	4297.9	4210.4	3833.0	3187.0	2369.6	1772.7	1557.4
11.5°	4330.1	4238.9	3849.7	3175.7	2320.2	1711.1	1503.2
12°	4361.6	4265.1	3864.4	3164.9	2271.5	1653.4	1424.8
12.5°	4392.0	4290.8	3879.1	3152.2	2223.3	1597.2	1330.4
13°	4421.8	4316.1	3892.5	3139.7	2172.6	1542.8	1254.3
13.5°	4451.3	4339.5	3905.1	3126.8	2123.9	1491.1	1186.4
14°	4478.5	4359.3	3917.4	3112.8	2076.2	1443.0	1127.1
14.5°	4507.2	4378.9	3929.5	3098.1	2026.4	1374.8	1072.1
15°	4533.0	4398.5	3940.4	3083.4	1977.7	1295.6	1010.8
15.5°	4561.8	4418.2	3951.7	3067.9	1930.9	1222.7	939.8
16°	4588.4	4437.8	3961.9	3051.1	1881.8	1160.9	855.7
16.5°	4615.0	4459.6	3970.6	3035.1	1835.3	1102.6	759.9
17°	4642.0	4476.1	3978.1	3018.2	1789.5	1050.9	668.3
17.5°	4669.2	4495.4	3985.6	3000.0	1741.7	995.8	585.8
18°	4693.7	4514.7	3992.9	2982.9	1695.8	936.6	519.5
18.5°	4719.8	4533.3	3999.3	2965.2	1652.0	867.0	461.6
19°	4745.3	4552.6	4004.9	2946.0	1606.6	788.3	414.6
19.5°	4770.1	4571.7	4010.3	2927.4	1563.0	701.8	374.7
20°	4794.1	4590.0	4014.8	2907.7	1522.3	622.2	340.1
20.5°	4820.3	4609.1	4019.7	2887.4	1481.6	549.6	312.9
21°	4842.4	4627.2	4023.6	2866.4	1441.2	488.2	291.0
21.5°	4867.0	4644.1	4026.7	2845.2	1403.3	436.6	274.3
22°	4891.5	4661.6	4029.1	2823.5	1366.5	395.1	262.3

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CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	4915.1	4678.2	4030.9	2801.9	1327.7	359.1	253.4
23°	4938.8	4695.1	4032.6	2780.2	1290.9	328.7	247.6
23.5°	4962.4	4711.1	4034.2	2757.5	1255.0	303.4	243.9
24°	4986.0	4728.1	4035.2	2734.3	1222.8	284.5	242.0
24.5°	5007.2	4743.5	4035.9	2712.3	1185.9	269.6	239.6
25°	5030.5	4759.6	4035.7	2688.3	1138.5	258.8	234.7
25.5°	5053.4	4775.3	4035.5	2663.6	1082.7	251.7	226.2
26°	5075.6	4790.9	4035.2	2639.6	1030.4	247.0	216.4
26.5°	5096.8	4806.2	4033.2	2613.9	982.8	245.7	210.6
27°	5118.4	4819.8	4031.8	2587.4	939.3	247.2	205.1
27.5°	5138.5	4832.7	4029.3	2562.3	896.1	250.8	199.6
28°	5159.7	4847.0	4026.4	2535.2	856.1	256.4	194.1
28.5°	5177.0	4860.9	4023.5	2507.0	813.5	263.1	199.4
29°	5197.9	4874.9	4020.2	2479.7	771.1	270.8	207.2
29.5°	5216.5	4887.5	4015.9	2451.8	727.0	278.7	217.1
30°	5236.5	4902.1	4011.5	2421.5	686.3	285.3	226.7
30.5°	5255.5	4914.9	4007.0	2392.5	644.5	288.6	231.5
31°	5273.9	4927.1	4001.7	2362.8	601.4	286.2	234.5
31.5°	5291.5	4939.3	3996.0	2332.2	557.8	279.2	251.9
32°	5309.2	4951.4	3989.4	2301.1	518.7	268.9	419.7
32.5°	5325.6	4962.9	3983.1	2271.0	488.1	257.7	595.4
33°	5342.8	4975.1	3976.8	2238.5	465.9	248.2	771.2
33.5°	5358.8	4986.4	3970.2	2206.6	445.0	241.4	946.9
34°	5373.0	4996.5	3963.0	2175.8	424.1	235.2	1122.7
34.5°	5387.3	5005.9	3955.5	2143.5	403.2	229.8	1252.9
35°	5401.8	5016.0	3948.8	2111.1	382.4	227.0	1377.3
35.5°	5415.4	5025.5	3940.4	2079.0	361.5	221.1	1484.6
36°	5427.8	5034.8	3932.2	2047.8	349.7	214.9	1570.6
36.5°	5440.4	5043.0	3923.7	2015.9	339.5	208.5	1625.8
37°	5452.0	5050.9	3915.2	1984.5	331.3	201.7	1648.9
37.5°	5461.8	5057.8	3906.9	1953.7	323.5	201.9	1668.4
38°	5473.4	5065.2	3898.5	1922.6	316.8	203.0	1655.3
38.5°	5483.5	5072.5	3889.4	1891.4	309.7	205.4	1585.0
39°	5492.8	5077.3	3879.9	1859.4	303.4	209.7	1461.4
39.5°	5502.5	5082.5	3871.0	1825.8	297.6	220.1	1348.3
40°	5510.5	5087.8	3860.9	1791.2	293.4	365.0	1231.0
40.5°	5518.7	5091.7	3851.4	1753.0	289.6	513.2	1092.4
41°	5527.1	5096.1	3841.1	1712.2	286.0	661.1	931.6
41.5°	5535.7	5099.5	3830.1	1670.2	281.9	809.1	767.6
42°	5542.3	5102.6	3819.1	1628.0	277.9	956.9	599.8
42.5°	5550.5	5104.0	3807.6	1583.2	273.5	1072.1	475.2
43°	5557.3	5106.6	3796.7	1537.6	269.4	1133.5	393.9
43.5°	5562.7	5107.8	3784.9	1491.9	265.1	1162.9	337.3
44°	5568.7	5109.0	3772.0	1448.1	260.5	1178.5	293.4
44.5°	5574.7	5108.9	3759.5	1405.6	255.7	1188.4	258.6

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CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	5580.6	5110.0	3746.6	1364.5	250.3	1175.3	230.7
45.5°	5585.9	5109.3	3732.8	1321.6	244.7	1131.3	213.2
46°	5590.5	5109.8	3718.7	1280.2	239.2	1059.9	196.1
46.5°	5594.6	5108.4	3704.5	1240.3	233.7	996.8	179.1
47°	5597.9	5106.9	3689.8	1200.7	228.4	929.0	162.0
47.5°	5601.1	5104.8	3675.1	1161.5	223.3	863.7	145.0
48°	5603.8	5102.7	3659.4	1124.3	217.9	803.5	131.6
48.5°	5605.7	5099.7	3644.0	1085.9	212.3	747.0	117.3
49°	5605.9	5096.3	3628.0	1051.3	206.6	692.9	103.0
49.5°	5606.2	5092.1	3612.2	1019.1	200.4	642.1	90.2
50°	5606.3	5088.0	3596.0	987.5	194.3	585.1	76.6
50.5°	5606.6	5083.3	3577.6	955.2	188.8	528.9	63.4
51°	5606.8	5079.1	3559.8	926.3	183.0	476.0	49.3
51.5°	5605.4	5073.6	3540.8	898.8	177.7	424.3	37.6
52°	5604.6	5069.3	3522.5	872.1	172.4	377.8	28.9
52.5°	5601.3	5063.1	3502.9	846.3	167.5	338.3	23.7
53°	5599.2	5057.4	3483.5	820.5	160.5	301.2	21.7
53.5°	5594.5	5051.5	3462.9	793.9	147.5	262.5	20.0
54°	5592.4	5045.6	3442.8	764.6	136.9	221.7	18.3
54.5°	5589.5	5039.0	3422.2	728.4	127.4	183.0	16.4
55°	5585.7	5033.8	3400.9	687.2	117.9	144.4	14.6
55.5°	5580.9	5027.3	3378.9	642.9	112.1	105.9	13.1
56°	5576.9	5020.4	3356.1	596.0	106.1	67.4	11.6
56.5°	5572.6	5012.6	3333.8	548.9	95.1	28.8	9.9
57°	5567.2	5006.3	3310.7	504.5	81.4	14.3	8.8
57.5°	5561.7	4998.7	3288.2	466.5	73.7	12.6	8.0
58°	5556.5	4990.3	3265.4	439.8	69.6	12.6	7.4
58.5°	5550.9	4983.0	3240.6	420.3	67.1	12.5	6.8
59°	5545.6	4973.8	3215.7	406.0	64.9	12.4	6.4
59.5°	5540.8	4965.2	3191.9	395.6	63.0	12.1	6.0
60°	5535.4	4954.9	3167.0	387.6	61.1	11.8	5.8
60.5°	5531.2	4945.5	3143.2	380.6	58.9	11.3	5.6
61°	5525.2	4935.5	3118.0	373.9	55.2	10.4	5.5
61.5°	5521.0	4926.2	3094.0	367.4	52.1	9.9	5.4
62°	5515.6	4914.3	3071.3	360.6	49.2	9.4	5.3
62.5°	5511.4	4902.1	3047.6	353.6	46.1	9.0	5.3
63°	5506.1	4890.7	3025.8	346.4	42.1	8.6	5.2
63.5°	5502.4	4879.1	3003.1	339.5	37.4	8.2	5.2
64°	5497.2	4865.4	2980.6	332.5	33.8	7.8	5.1
64.5°	5491.6	4853.0	2957.2	325.7	31.2	7.4	5.1
65°	5486.2	4840.3	2933.9	318.5	28.9	7.1	5.1
65.5°	5481.4	4826.5	2910.4	310.9	26.7	6.7	5.1
66°	5476.6	4812.3	2886.3	303.1	24.5	6.4	5.2
66.5°	5471.5	4801.6	2861.4	296.0	22.1	6.1	5.3
67°	5466.4	4788.9	2834.8	288.9	19.6	5.8	5.5

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CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	5462.1	4775.9	2808.8	281.7	16.9	5.5	5.6
68°	5458.7	4764.8	2781.9	274.3	14.2	5.2	5.7
68.5°	5454.7	4753.9	2754.0	266.3	11.5	5.0	5.9
69°	5450.5	4742.4	2725.4	258.2	8.9	4.8	6.0
69.5°	5447.1	4732.6	2695.5	250.7	6.7	4.6	6.1
70°	5443.6	4722.7	2665.1	243.5	5.6	4.5	6.3
70.5°	5438.9	4712.8	2634.5	236.1	5.3	4.4	6.4
71°	5436.9	4705.5	2600.8	228.2	5.2	4.4	6.6
71.5°	5434.7	4697.7	2567.2	220.6	5.1	4.4	6.7
72°	5432.7	4690.6	2533.0	213.2	5.0	4.4	6.8
72.5°	5432.0	4683.7	2500.2	204.9	4.7	4.5	7.0
73°	5430.6	4678.7	2467.7	196.5	4.4	4.5	7.1
73.5°	5428.6	4673.6	2435.9	188.1	4.3	4.5	7.3
74°	5427.1	4668.1	2403.0	179.7	4.3	4.6	7.5
74.5°	5424.4	4662.9	2369.3	170.7	4.3	4.7	7.7
75°	5422.4	4656.1	2336.0	161.1	4.3	4.8	7.9
75.5°	5421.4	4651.6	2299.7	151.4	4.3	5.0	8.1
76°	5418.2	4647.9	2257.2	141.5	4.3	5.1	8.3
76.5°	5414.9	4644.8	2213.2	132.0	4.3	5.3	8.5
77°	5412.9	4642.2	2169.6	122.5	4.3	5.5	8.7
77.5°	5408.9	4641.7	2124.5	113.0	4.4	5.6	8.8
78°	5403.3	4640.0	2080.9	103.8	4.4	5.7	9.0
78.5°	5397.2	4635.7	2039.7	95.2	4.4	5.9	9.2
79°	5389.2	4629.2	2002.1	86.2	4.5	6.1	9.3
79.5°	5378.0	4622.4	1965.6	77.6	4.5	6.2	9.5
80°	5364.7	4617.8	1928.7	69.0	4.6	6.4	9.7
80.5°	5346.7	4612.9	1891.5	61.2	4.6	6.5	9.9
81°	5325.7	4608.5	1857.8	54.3	4.7	6.7	10.1
81.5°	5299.3	4603.5	1824.9	48.4	4.7	6.8	10.2
82°	5271.5	4597.9	1793.2	43.5	4.8	7.0	10.4
82.5°	5239.5	4594.1	1762.8	38.9	4.8	7.1	10.6
83°	5203.1	4588.5	1728.8	35.0	4.9	7.3	10.7
83.5°	5165.8	4582.0	1695.4	31.5	5.0	7.4	10.9
84°	5131.1	4575.9	1662.1	28.1	5.1	7.6	11.0
84.5°	5092.5	4568.8	1628.8	25.1	5.2	7.7	11.2
85°	5054.4	4558.0	1597.5	22.4	5.2	7.9	11.4
85.5°	5020.4	4549.6	1569.5	20.0	5.3	8.1	11.5
86°	4983.4	4546.4	1544.1	17.7	5.4	8.2	11.7
86.5°	4950.9	4558.0	1523.1	15.6	5.5	8.4	11.8
87°	4925.8	4584.9	1506.6	13.7	5.6	8.6	12.0
87.5°	4914.6	4627.3	1500.3	11.9	5.7	8.7	12.1
88°	4915.3	4691.1	1504.2	10.2	5.9	8.9	12.3
88.5°	4933.2	4786.8	1520.1	8.7	6.0	9.0	12.4
89°	4965.6	4894.7	1551.1	7.5	6.1	9.2	12.5
89.5°	5026.0	5022.2	1598.8	6.5	6.2	9.3	12.6

REPORT NUMBER: P1197128

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	5118.8	5140.5	1650.7	5.4	6.3	9.5	12.8
90.5°	5242.1	5224.8	1707.1	5.1	6.4	9.6	12.9
91°	5404.6	5226.4	1762.0	5.1	6.5	9.8	13.0
91.5°	5558.4	5121.0	1805.0	5.0	6.6	9.9	13.1
92°	5619.4	4852.9	1815.8	4.9	6.8	10.1	13.3
92.5°	5556.9	4455.5	1790.8	4.8	6.9	10.2	13.4
93°	5365.7	3979.7	1720.2	4.7	6.9	10.3	13.5
93.5°	4999.1	3546.8	1600.3	4.7	7.0	10.5	13.6
94°	4633.3	3194.3	1416.1	4.6	7.1	10.6	13.7
94.5°	4268.6	2956.3	1195.2	4.5	7.2	10.7	13.8
95°	3904.6	2782.3	970.2	4.5	7.3	10.8	13.9
95.5°	3544.1	2715.3	769.7	4.4	7.4	10.9	14.0
96°	3269.7	2795.4	626.6	4.4	7.5	11.0	14.0
96.5°	3067.2	3004.2	556.0	4.4	7.6	11.1	14.1
97°	2953.4	3204.9	485.4	4.3	7.6	11.2	14.2
97.5°	2989.7	3262.6	414.8	4.3	7.7	11.4	14.3
98°	3137.2	3003.0	344.2	4.3	7.8	11.5	14.4
98.5°	3297.9	2431.7	273.9	4.2	7.9	11.6	14.5
99°	3294.4	1754.2	262.9	4.2	8.0	11.8	14.6
99.5°	2960.5	1357.7	263.9	4.2	8.1	11.9	14.7
100°	2260.6	976.3	253.2	4.1	8.2	12.0	14.8
100.5°	1845.8	594.9	241.8	4.1	8.3	12.1	14.8
101°	1431.1	213.5	227.3	4.0	8.3	12.2	14.9
101.5°	1020.0	197.2	202.8	4.0	8.4	12.3	14.9
102°	609.0	185.2	194.3	4.0	8.5	12.4	15.0
102.5°	209.2	173.1	184.8	3.9	8.5	12.5	15.0
103°	198.2	160.9	159.7	3.9	8.6	12.6	15.1
103.5°	197.3	164.0	96.2	3.9	8.7	12.7	15.1
104°	205.6	159.9	72.0	3.9	8.7	12.8	15.1
104.5°	214.3	149.2	60.9	3.9	8.8	12.8	15.2
105°	218.8	134.6	51.2	3.9	8.9	12.9	15.2
105.5°	214.2	120.7	43.6	3.9	8.9	13.0	15.2
106°	191.7	105.2	36.5	3.9	9.0	13.1	15.3
106.5°	169.9	94.0	30.5	3.9	9.1	13.2	15.3
107°	154.6	86.1	25.0	4.0	9.1	13.3	15.4
107.5°	138.8	80.7	20.2	4.0	9.2	13.4	15.4
108°	125.7	77.7	16.5	4.0	9.3	13.5	15.5
108.5°	118.0	75.8	13.4	4.0	9.4	13.6	15.5
109°	114.9	75.2	11.1	4.0	9.4	13.6	15.5
109.5°	114.9	77.5	9.9	4.1	9.5	13.7	15.6
110°	116.3	80.9	8.9	4.1	9.6	13.7	15.6
110.5°	116.5	83.7	8.0	4.2	9.6	13.8	15.6
111°	115.3	85.1	7.1	4.2	9.7	13.8	15.6
111.5°	114.0	84.4	6.3	4.3	9.7	13.9	15.6
112°	111.7	82.1	5.6	4.4	9.8	13.9	15.7

REPORT NUMBER: P1197128

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	106.2	78.7	5.1	4.4	9.8	14.0	15.7
113°	101.2	70.4	4.6	4.5	9.9	14.0	15.7
113.5°	94.4	54.8	4.2	4.5	9.9	14.1	15.7
114°	84.9	36.5	3.9	4.6	10.0	14.1	15.7
114.5°	73.2	20.2	3.6	4.7	10.0	14.2	15.8
115°	60.3	12.7	3.3	4.7	10.1	14.2	15.8
115.5°	48.7	9.9	3.2	4.8	10.2	14.3	15.8
116°	36.9	7.6	3.0	4.8	10.2	14.3	15.8
116.5°	23.1	5.6	2.8	4.9	10.3	14.3	15.8
117°	13.9	4.0	2.6	5.0	10.3	14.4	15.8
117.5°	9.9	2.9	2.4	5.0	10.4	14.4	15.8
118°	7.4	2.2	2.3	5.1	10.4	14.4	15.9
118.5°	5.4	1.9	2.2	5.2	10.5	14.4	15.9
119°	3.9	1.6	2.1	5.2	10.5	14.4	15.9
119.5°	3.0	1.4	2.0	5.3	10.5	14.5	15.9
120°	2.4	1.4	1.9	5.4	10.6	14.5	15.9
120.5°	1.9	1.3	1.8	5.4	10.6	14.5	15.9
121°	1.6	1.3	1.8	5.5	10.7	14.5	15.9
121.5°	1.5	1.2	1.8	5.5	10.7	14.6	15.9
122°	1.4	1.2	1.8	5.6	10.7	14.6	15.9
122.5°	1.4	1.2	1.8	5.7	10.8	14.6	15.9
123°	1.3	1.2	1.9	5.7	10.8	14.6	15.9
123.5°	1.3	1.2	1.9	5.8	10.8	14.6	15.9
124°	1.3	1.2	1.9	5.9	10.9	14.7	15.9
124.5°	1.3	1.1	2.0	5.9	10.9	14.7	15.9
125°	1.3	1.1	2.0	6.0	11.0	14.7	15.9
125.5°	1.3	1.1	2.1	6.0	11.0	14.7	15.9
126°	1.3	1.1	2.2	6.1	11.0	14.7	15.9
126.5°	1.2	1.1	2.2	6.2	11.1	14.7	15.9
127°	1.2	1.1	2.3	6.2	11.1	14.7	15.9
127.5°	1.2	1.1	2.3	6.3	11.1	14.7	15.9
128°	1.2	1.0	2.4	6.4	11.2	14.7	15.9
128.5°	1.1	1.0	2.5	6.4	11.2	14.7	15.9
129°	1.1	1.0	2.5	6.5	11.2	14.7	15.8
129.5°	1.0	1.0	2.6	6.6	11.3	14.7	15.8
130°	1.0	1.0	2.7	6.6	11.3	14.7	15.8
130.5°	1.0	1.0	2.7	6.7	11.3	14.7	15.8
131°	0.9	1.1	2.8	6.8	11.4	14.7	15.8
131.5°	0.9	1.1	2.9	6.8	11.4	14.7	15.7
132°	0.9	1.1	3.0	6.9	11.4	14.7	15.7
132.5°	0.9	1.1	3.0	6.9	11.5	14.7	15.7
133°	0.9	1.1	3.1	7.0	11.5	14.7	15.6
133.5°	0.9	1.1	3.2	7.1	11.5	14.7	15.6
134°	0.9	1.1	3.3	7.1	11.6	14.7	15.6
134.5°	1.0	1.1	3.3	7.2	11.6	14.7	15.5

REPORT NUMBER: P1197128

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.0	1.2	3.4	7.3	11.6	14.7	15.5
135.5°	1.0	1.2	3.5	7.3	11.7	14.7	15.5
136°	1.0	1.2	3.6	7.4	11.7	14.7	15.5
136.5°	1.0	1.3	3.7	7.4	11.7	14.7	15.5
137°	1.0	1.3	3.7	7.5	11.7	14.7	15.5
137.5°	1.1	1.4	3.8	7.6	11.8	14.7	15.5
138°	1.1	1.4	3.9	7.6	11.8	14.7	15.4
138.5°	1.1	1.4	4.0	7.7	11.8	14.7	15.4
139°	1.2	1.5	4.0	7.7	11.8	14.7	15.4
139.5°	1.2	1.5	4.1	7.8	11.9	14.7	15.4
140°	1.2	1.6	4.2	7.9	11.9	14.7	15.4
140.5°	1.3	1.6	4.3	7.9	11.9	14.7	15.3
141°	1.3	1.7	4.4	8.0	11.9	14.7	15.3
141.5°	1.3	1.8	4.4	8.0	12.0	14.6	15.2
142°	1.4	1.8	4.5	8.1	12.0	14.6	15.2
142.5°	1.4	1.9	4.6	8.2	12.0	14.6	15.1
143°	1.4	1.9	4.7	8.2	12.0	14.6	15.0
143.5°	1.5	2.0	4.8	8.3	12.0	14.6	15.0
144°	1.5	2.1	4.8	8.3	12.0	14.5	14.9
144.5°	1.5	2.1	4.9	8.4	12.0	14.5	14.8
145°	1.6	2.2	5.0	8.4	12.0	14.5	14.7
145.5°	1.6	2.2	5.1	8.5	12.0	14.4	14.7
146°	1.6	2.3	5.2	8.5	12.1	14.4	14.6
146.5°	1.7	2.4	5.2	8.6	12.1	14.4	14.5
147°	1.7	2.5	5.3	8.6	12.1	14.3	14.4
147.5°	1.7	2.5	5.4	8.7	12.1	14.3	14.4
148°	1.8	2.6	5.5	8.7	12.1	14.3	14.3
148.5°	1.8	2.7	5.6	8.8	12.1	14.2	14.2
149°	1.8	2.8	5.6	8.9	12.1	14.2	14.1
149.5°	1.9	2.8	5.7	8.9	12.1	14.2	14.1
150°	1.9	2.9	5.8	8.9	12.1	14.1	14.0
150.5°	2.0	3.0	5.9	9.0	12.1	14.1	14.0
151°	2.0	3.1	5.9	9.0	12.2	14.1	13.9
151.5°	2.1	3.2	6.0	9.1	12.2	14.1	13.8
152°	2.1	3.3	6.1	9.1	12.2	14.1	13.7
152.5°	2.2	3.3	6.2	9.2	12.2	14.0	13.7
153°	2.2	3.4	6.3	9.2	12.2	14.0	13.6
153.5°	2.3	3.5	6.3	9.3	12.2	14.0	13.5
154°	2.4	3.6	6.4	9.3	12.2	14.0	13.4
154.5°	2.5	3.7	6.5	9.4	12.2	14.0	13.3
155°	2.6	3.8	6.6	9.4	12.2	14.0	13.2
155.5°	2.6	3.9	6.7	9.5	12.2	13.9	13.1
156°	2.7	4.0	6.8	9.5	12.2	13.9	13.0
156.5°	2.8	4.1	6.9	9.6	12.2	13.8	12.9
157°	2.9	4.2	6.9	9.6	12.2	13.8	12.8

REPORT NUMBER: P1197128

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	3.0	4.3	7.0	9.7	12.2	13.7	12.7
158°	3.1	4.4	7.1	9.7	12.2	13.7	12.6
158.5°	3.2	4.5	7.2	9.8	12.2	13.6	12.6
159°	3.3	4.6	7.3	9.8	12.2	13.6	12.5
159.5°	3.4	4.8	7.4	9.8	12.2	13.5	12.4
160°	3.5	4.9	7.4	9.9	12.2	13.5	12.3
160.5°	3.7	5.0	7.5	9.9	12.2	13.4	12.2
161°	3.8	5.1	7.6	10.0	12.2	13.4	12.1
161.5°	3.9	5.2	7.7	10.0	12.2	13.3	12.0
162°	4.0	5.4	7.7	10.0	12.2	13.2	11.8
162.5°	4.0	5.5	7.8	10.1	12.2	13.2	11.7
163°	4.1	5.6	7.9	10.1	12.1	13.1	11.6
163.5°	4.2	5.7	8.0	10.1	12.1	13.1	11.5
164°	4.3	5.8	8.1	10.2	12.1	13.0	11.3
164.5°	4.4	5.9	8.1	10.2	12.1	12.9	11.2
165°	4.5	6.0	8.2	10.3	12.1	12.9	11.0
165.5°	4.6	6.1	8.3	10.3	12.1	12.8	10.9
166°	4.7	6.2	8.4	10.3	12.1	12.8	10.8
166.5°	4.7	6.3	8.4	10.4	12.1	12.7	10.7
167°	4.8	6.4	8.5	10.4	12.1	12.7	10.6
167.5°	4.9	6.6	8.6	10.4	12.1	12.6	10.5
168°	5.0	6.7	8.7	10.5	12.0	12.6	10.4
168.5°	5.1	6.8	8.7	10.5	12.0	12.5	10.3
169°	5.2	6.9	8.8	10.6	12.0	12.4	10.2
169.5°	5.3	7.0	8.9	10.6	12.0	12.4	10.1
170°	5.4	7.1	9.0	10.6	12.0	12.3	9.9
170.5°	5.5	7.2	9.0	10.7	11.9	12.3	9.8
171°	5.6	7.2	9.1	10.7	11.9	12.2	9.7
171.5°	5.7	7.3	9.2	10.7	11.9	12.1	9.5
172°	5.7	7.4	9.2	10.7	11.8	12.0	9.4
172.5°	5.8	7.5	9.3	10.7	11.8	11.9	9.2
173°	5.9	7.6	9.4	10.8	11.8	11.8	9.1
173.5°	6.0	7.7	9.4	10.8	11.7	11.7	9.0
174°	6.1	7.8	9.5	10.8	11.7	11.7	8.8
174.5°	6.2	7.9	9.6	10.8	11.7	11.6	8.7
175°	6.3	8.0	9.6	10.8	11.6	11.5	8.5
175.5°	6.4	8.1	9.7	10.9	11.6	11.4	8.4
176°	6.5	8.1	9.8	10.9	11.5	11.4	8.3
176.5°	6.6	8.2	9.8	10.9	11.5	11.3	8.2
177°	6.7	8.3	9.9	10.9	11.5	11.2	8.0
177.5°	6.8	8.4	9.9	10.9	11.4	11.1	7.9
178°	6.9	8.5	10.0	10.9	11.4	11.1	7.8
178.5°	7.0	8.6	10.1	11.0	11.3	11.0	7.7
179°	7.1	8.7	10.1	11.0	11.3	10.9	7.6
179.5°	7.2	8.8	10.2	11.0	11.2	10.8	7.5



REPORT NUMBER: P1197128
CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	7.3	7.3	7.3	7.3	7.3	7.3	7.3

(END OF REPORT)