

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: P1197132

Luminaire Tested: AWP150S-BZ-BZ-MID-5000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197132
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-MID-5000K-POSITION 30
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19110 (1 lamp)
Luminaire Lumens: 17084.4 lumens
Efficiency: 89.4%
Efficacy: 137.3 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: B2 - U5 - G5

Input Watts (W): 124.4
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

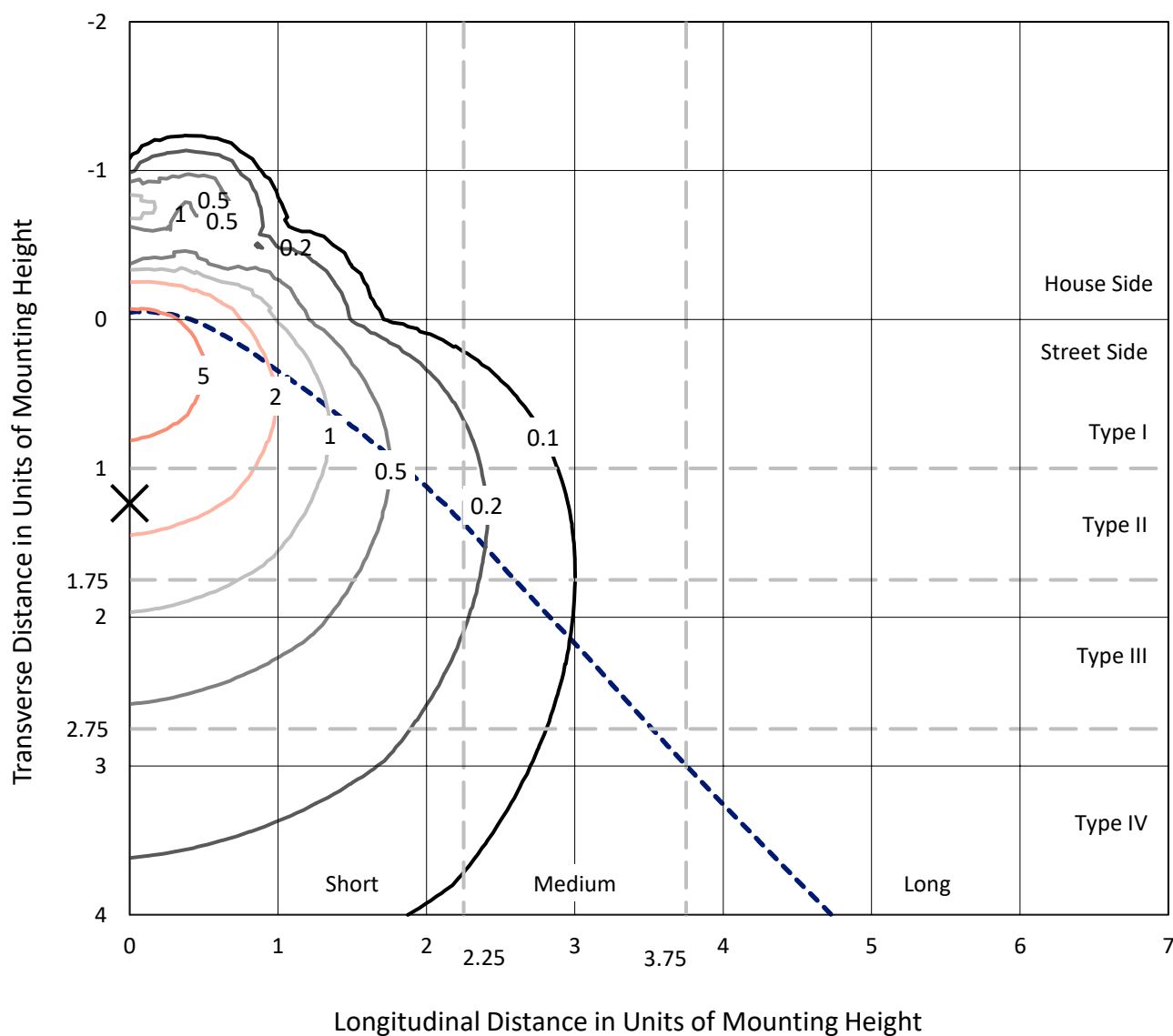
REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

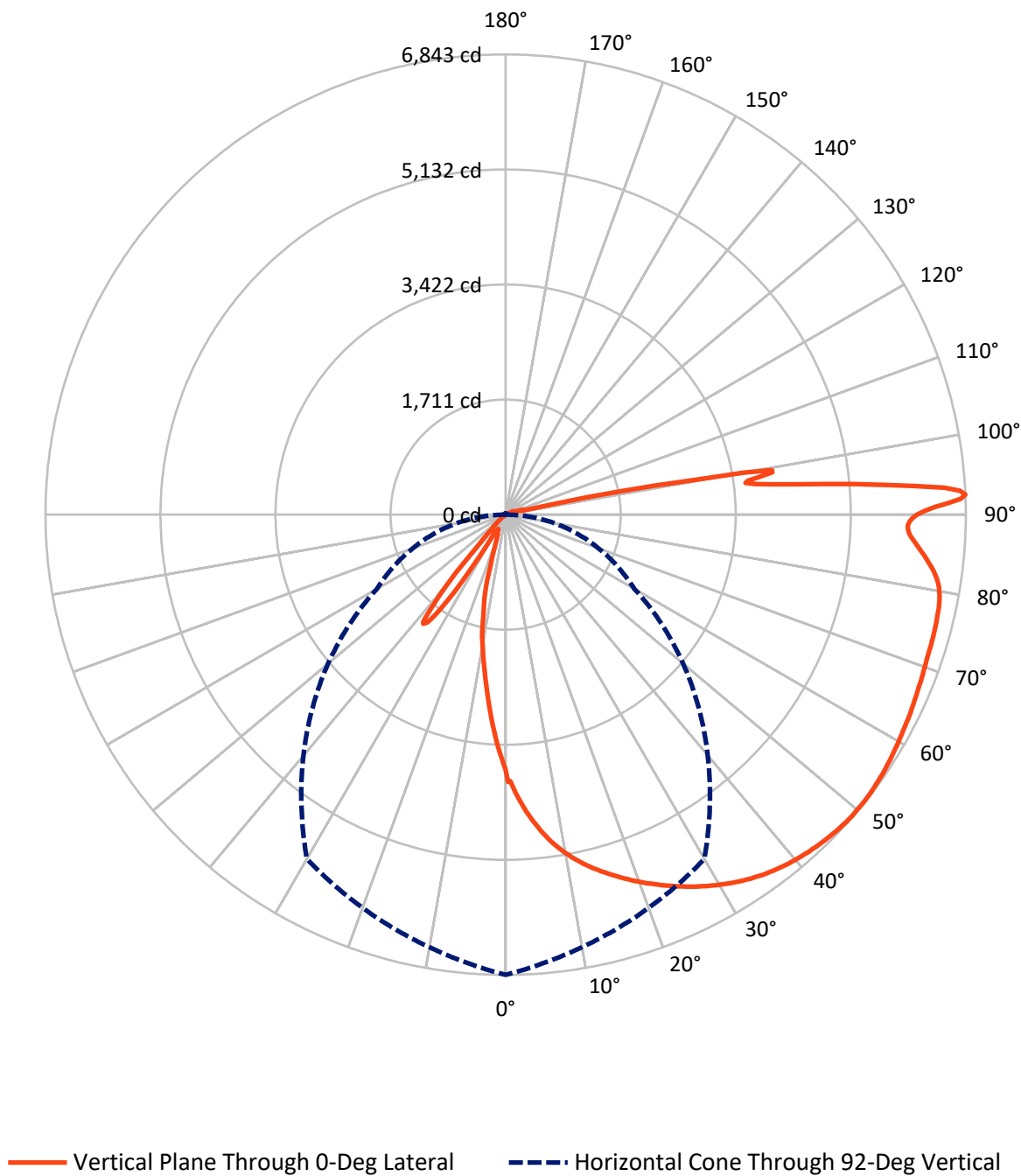


Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

Luminous Intensity Polar Plot



REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

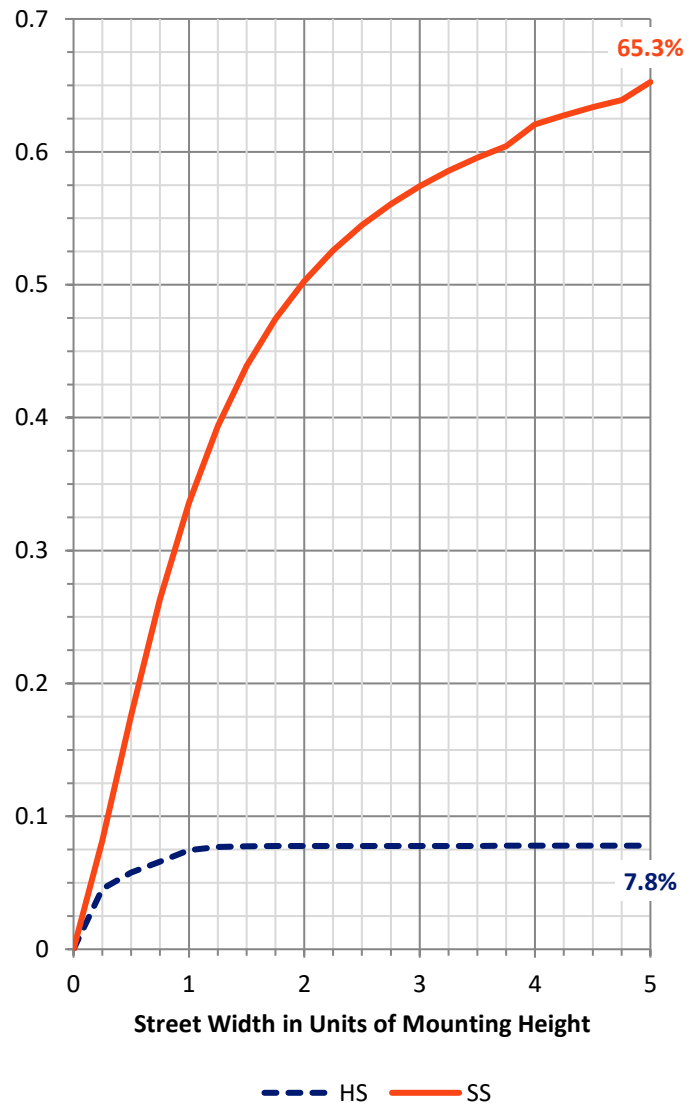
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1505.2	43.4	1548.6
	% Lamp	7.9	0.2	8.1
Street Side	Lumens	13966.8	1569.1	15535.9
	% Lamp	73.1	8.2	81.3
Total	Lumens	15472.0	1612.4	17084.4
	% Lamp	81.0	8.4	89.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	367.6	2.2	1.9
10°-20°	995.3	5.8	5.2
20°-30°	1455.9	8.5	7.6
30°-40°	1908.0	11.2	10.0
40°-50°	2251.0	13.2	11.8
50°-60°	2219.2	13.0	11.6
60°-70°	2188.3	12.8	11.5
70°-80°	2116.0	12.4	11.1
80°-90°	1970.7	11.5	10.3
90°-100°	1448.4	8.5	7.6
100°-110°	111.5	0.7	0.6
110°-120°	21.4	0.1	0.1
120°-130°	7.9	0.0	0.0
130°-140°	7.3	0.0	0.0
140°-150°	6.4	0.0	0.0
150°-160°	5.0	0.0	0.0
160°-170°	3.3	0.0	0.0
170°-180°	1.1	0.0	0.0
0°-90°	15472.0	90.6	81.0
0°-180°	17084.4	100.0	89.4

Coefficient of Utilization



REPORT NUMBER: P1197132

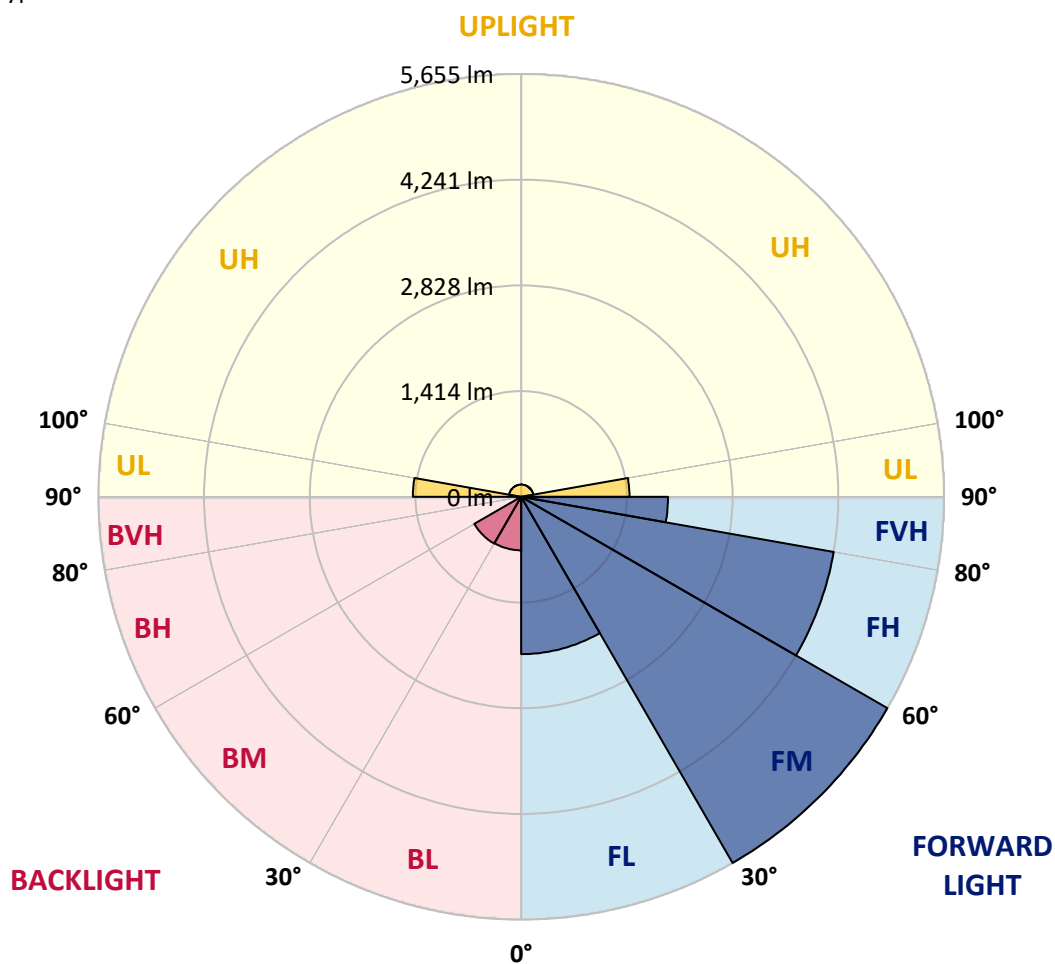
CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2103.7	11.0			
FM	(30°-60°)	5655.2	29.6			
FH	(60°-80°)	4244.4	22.2			G2/5000
FVH	(80°-90°)	1963.5	10.3			G5
BL	(0°-30°)	715.1	3.7	B2/1000		
BM	(30°-60°)	722.9	3.8	B1/1000		
BH	(60°-80°)	60.0	0.3	B0/110		G0/110
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	1448.4	7.6		U5	
UH	(100°-180°)	164.0	0.9		U3/500	
Trapped Light		2025.6	10.6			

BUG Rating: B2-U5-G5

Type IV Short



REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	3973.1	3973.1	3973.1	3973.1	3973.1	3973.1	3973.1
0.5°	3963.8	4039.3	4037.4	4026.3	3977.1	3876.9	3792.7
1°	4049.1	4106.6	4076.7	4025.2	3933.8	3799.8	3698.0
1.5°	4130.3	4177.7	4116.9	4024.0	3890.3	3724.4	3608.4
2°	4204.6	4244.1	4155.4	4022.2	3845.3	3644.8	3520.4
2.5°	4280.8	4306.3	4193.1	4019.0	3798.8	3564.8	3423.2
3°	4355.1	4371.1	4229.1	4016.1	3751.7	3483.6	3328.8
3.5°	4425.3	4430.7	4262.8	4011.9	3703.7	3397.9	3232.6
4°	4492.8	4487.2	4297.0	4007.2	3654.3	3315.3	3132.0
4.5°	4562.7	4543.8	4330.1	4002.4	3603.8	3229.3	3030.4
5°	4617.8	4599.3	4360.7	3997.1	3555.1	3143.7	2934.8
5.5°	4682.4	4649.6	4392.2	3990.1	3503.9	3056.2	2835.7
6°	4744.7	4702.7	4421.7	3983.4	3449.9	2966.0	2736.4
6.5°	4800.7	4752.8	4451.1	3975.6	3397.6	2880.5	2643.8
7°	4856.1	4801.5	4479.6	3967.2	3342.2	2793.5	2551.5
7.5°	4911.9	4846.2	4505.8	3959.3	3288.0	2707.6	2457.1
8°	4961.7	4892.0	4531.9	3950.2	3232.4	2621.8	2375.2
8.5°	5011.7	4934.5	4556.8	3939.6	3175.1	2538.4	2293.3
9°	5058.5	4975.7	4580.0	3929.7	3119.8	2459.3	2211.5
9.5°	5105.6	5016.0	4603.8	3917.7	3062.1	2384.1	2129.7
10°	5148.5	5054.9	4626.2	3906.5	3001.9	2309.0	2047.8
10.5°	5192.4	5091.4	4647.3	3894.3	2945.9	2233.9	1970.3
11°	5233.9	5127.3	4667.7	3881.0	2885.7	2158.7	1896.6
11.5°	5273.1	5162.0	4688.0	3867.3	2825.4	2083.8	1830.6
12°	5311.4	5193.9	4706.0	3854.1	2766.1	2013.5	1735.1
12.5°	5348.5	5225.1	4723.8	3838.6	2707.4	1945.0	1620.2
13°	5384.8	5256.0	4740.2	3823.4	2645.7	1878.8	1527.5
13.5°	5420.7	5284.5	4755.5	3807.7	2586.4	1815.8	1444.7
14°	5453.8	5308.6	4770.5	3790.7	2528.4	1757.2	1372.6
14.5°	5488.8	5332.5	4785.2	3772.8	2467.7	1674.2	1305.5
15°	5520.2	5356.4	4798.5	3754.9	2408.4	1577.8	1230.9
15.5°	5555.2	5380.3	4812.3	3735.9	2351.4	1488.9	1144.5
16°	5587.6	5404.2	4824.6	3715.6	2291.5	1413.8	1042.0
16.5°	5620.0	5430.8	4835.2	3696.1	2235.0	1342.8	925.3
17°	5652.9	5450.9	4844.4	3675.4	2179.1	1279.7	813.8
17.5°	5686.0	5474.4	4853.5	3653.3	2120.9	1212.7	713.4
18°	5715.8	5497.8	4862.4	3632.5	2065.1	1140.6	632.6
18.5°	5747.6	5520.6	4870.3	3610.9	2011.7	1055.8	562.1
19°	5778.7	5544.0	4877.1	3587.5	1956.4	960.0	504.9
19.5°	5808.8	5567.3	4883.6	3565.0	1903.4	854.7	456.3
20°	5838.1	5589.5	4889.1	3540.9	1853.9	757.6	414.1
20.5°	5870.0	5612.8	4895.0	3516.2	1804.3	669.3	381.1
21°	5896.9	5634.8	4899.8	3490.6	1755.1	594.5	354.4
21.5°	5926.8	5655.5	4903.6	3464.8	1708.9	531.7	334.0
22°	5956.7	5676.8	4906.5	3438.3	1664.1	481.1	319.5

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	5985.4	5697.0	4908.7	3412.1	1616.8	437.2	308.6
23°	6014.3	5717.6	4910.8	3385.7	1572.0	400.3	301.5
23.5°	6043.0	5737.0	4912.7	3358.0	1528.3	369.5	297.1
24°	6071.8	5757.7	4913.9	3329.7	1489.1	346.5	294.7
24.5°	6097.6	5776.4	4914.8	3303.0	1444.2	328.3	291.7
25°	6126.0	5796.1	4914.6	3273.8	1386.4	315.1	285.8
25.5°	6153.8	5815.2	4914.3	3243.7	1318.5	306.5	275.5
26°	6180.9	5834.2	4913.9	3214.4	1254.8	300.8	263.6
26.5°	6206.7	5852.8	4911.6	3183.2	1196.9	299.2	256.5
27°	6233.0	5869.4	4909.7	3150.9	1143.9	301.1	249.8
27.5°	6257.5	5885.2	4906.8	3120.2	1091.3	305.4	243.1
28°	6283.3	5902.5	4903.2	3087.3	1042.6	312.2	236.4
28.5°	6304.4	5919.5	4899.7	3052.9	990.6	320.4	242.8
29°	6329.8	5936.5	4895.6	3019.7	939.1	329.8	252.3
29.5°	6352.4	5951.9	4890.5	2985.7	885.3	339.4	264.4
30°	6376.8	5969.6	4885.1	2948.8	835.7	347.4	276.1
30.5°	6400.0	5985.2	4879.6	2913.5	784.8	351.5	281.9
31°	6422.3	6000.1	4873.2	2877.4	732.4	348.5	285.5
31.5°	6443.8	6015.0	4866.2	2840.1	679.2	340.1	306.8
32°	6465.4	6029.7	4858.1	2802.2	631.7	327.5	511.1
32.5°	6485.3	6043.7	4850.6	2765.5	594.4	313.8	725.1
33°	6506.3	6058.5	4842.8	2725.9	567.3	302.3	939.1
33.5°	6525.8	6072.3	4834.8	2687.1	541.9	294.0	1153.1
34°	6543.1	6084.6	4826.1	2649.6	516.5	286.4	1367.2
34.5°	6560.4	6096.1	4816.9	2610.2	491.0	279.8	1525.7
35°	6578.1	6108.3	4808.8	2570.8	465.7	276.4	1677.2
35.5°	6594.7	6119.9	4798.6	2531.7	440.3	269.3	1807.9
36°	6609.8	6131.3	4788.5	2493.8	425.9	261.7	1912.6
36.5°	6625.2	6141.2	4778.1	2454.9	413.4	253.9	1979.8
37°	6639.3	6150.9	4767.8	2416.7	403.5	245.6	2007.9
37.5°	6651.2	6159.2	4757.7	2379.1	393.9	245.9	2031.8
38°	6665.3	6168.2	4747.4	2341.3	385.7	247.3	2015.7
38.5°	6677.6	6177.2	4736.4	2303.3	377.2	250.1	1930.2
39°	6689.0	6182.9	4724.9	2264.3	369.5	255.4	1779.7
39.5°	6700.8	6189.3	4714.0	2223.4	362.4	268.0	1641.9
40°	6710.5	6195.8	4701.7	2181.3	357.3	444.5	1499.0
40.5°	6720.5	6200.6	4690.1	2134.7	352.7	624.9	1330.3
41°	6730.7	6205.9	4677.6	2085.1	348.3	805.1	1134.5
41.5°	6741.2	6210.0	4664.2	2033.9	343.3	985.2	934.8
42°	6749.3	6213.8	4650.8	1982.6	338.5	1165.3	730.4
42.5°	6759.2	6215.5	4636.7	1927.9	333.1	1305.5	578.6
43°	6767.5	6218.6	4623.5	1872.4	328.1	1380.3	479.7
43.5°	6774.1	6220.1	4609.1	1816.7	322.9	1416.1	410.8
44°	6781.4	6221.6	4593.4	1763.5	317.2	1435.1	357.2
44.5°	6788.7	6221.4	4578.2	1711.7	311.4	1447.2	315.0

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6795.9	6222.8	4562.5	1661.7	304.8	1431.2	280.9
45.5°	6802.3	6222.0	4545.7	1609.3	298.0	1377.7	259.7
46°	6807.9	6222.5	4528.5	1558.9	291.3	1290.7	238.8
46.5°	6812.9	6220.8	4511.3	1510.4	284.6	1213.9	218.0
47°	6816.9	6219.0	4493.3	1462.2	278.2	1131.3	197.3
47.5°	6820.8	6216.5	4475.4	1414.4	272.0	1051.8	176.6
48°	6824.2	6213.9	4456.2	1369.2	265.3	978.4	160.3
48.5°	6826.5	6210.3	4437.5	1322.4	258.5	909.7	142.9
49°	6826.7	6206.2	4418.1	1280.2	251.5	843.8	125.4
49.5°	6827.0	6201.1	4398.8	1241.1	244.1	781.9	109.8
50°	6827.2	6196.0	4379.1	1202.6	236.6	712.5	93.3
50.5°	6827.5	6190.3	4356.7	1163.2	229.9	644.1	77.2
51°	6827.7	6185.2	4335.0	1128.0	222.9	579.7	60.1
51.5°	6826.1	6178.5	4311.9	1094.5	216.4	516.7	45.8
52°	6825.2	6173.2	4289.6	1062.1	210.0	460.1	35.2
52.5°	6821.1	6165.7	4265.7	1030.6	204.0	412.0	28.9
53°	6818.5	6158.8	4242.0	999.2	195.4	366.8	26.4
53.5°	6812.8	6151.5	4217.1	966.8	179.7	319.7	24.4
54°	6810.2	6144.4	4192.6	931.1	166.7	270.0	22.2
54.5°	6806.7	6136.3	4167.4	887.0	155.2	222.8	20.0
55°	6802.1	6130.1	4141.5	836.9	143.6	175.9	17.8
55.5°	6796.2	6122.1	4114.7	783.0	136.5	129.0	15.9
56°	6791.3	6113.7	4086.9	725.8	129.2	82.0	14.2
56.5°	6786.1	6104.2	4059.7	668.5	115.8	35.1	12.0
57°	6779.6	6096.5	4031.6	614.3	99.1	17.4	10.7
57.5°	6772.9	6087.3	4004.2	568.1	89.8	15.4	9.8
58°	6766.5	6077.0	3976.5	535.5	84.7	15.3	9.0
58.5°	6759.7	6068.2	3946.3	511.9	81.7	15.2	8.3
59°	6753.3	6056.9	3915.9	494.4	79.0	15.1	7.7
59.5°	6747.4	6046.5	3887.0	481.8	76.7	14.8	7.3
60°	6740.8	6033.9	3856.7	472.0	74.5	14.4	7.0
60.5°	6735.7	6022.5	3827.6	463.5	71.7	13.8	6.8
61°	6728.4	6010.3	3797.0	455.3	67.2	12.7	6.7
61.5°	6723.4	5998.9	3767.7	447.4	63.5	12.0	6.6
62°	6716.7	5984.4	3740.2	439.1	60.0	11.5	6.5
62.5°	6711.6	5969.7	3711.3	430.5	56.2	11.0	6.4
63°	6705.2	5955.7	3684.7	421.9	51.2	10.5	6.3
63.5°	6700.7	5941.6	3657.1	413.4	45.5	10.0	6.3
64°	6694.3	5924.9	3629.7	404.9	41.2	9.5	6.2
64.5°	6687.5	5909.8	3601.2	396.6	38.0	9.0	6.2
65°	6680.9	5894.3	3572.8	387.9	35.2	8.6	6.2
65.5°	6675.1	5877.5	3544.2	378.6	32.6	8.2	6.3
66°	6669.2	5860.3	3514.8	369.2	29.8	7.8	6.4
66.5°	6663.1	5847.2	3484.5	360.5	26.9	7.4	6.5
67°	6656.8	5831.8	3452.2	351.8	23.9	7.0	6.6

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	6651.6	5815.9	3420.5	343.1	20.6	6.7	6.8
68°	6647.4	5802.4	3387.7	334.1	17.3	6.4	7.0
68.5°	6642.6	5789.1	3353.8	324.3	14.0	6.1	7.1
69°	6637.4	5775.2	3319.0	314.4	10.9	5.9	7.3
69.5°	6633.3	5763.2	3282.5	305.3	8.2	5.6	7.5
70°	6629.0	5751.2	3245.4	296.6	6.8	5.5	7.6
70.5°	6623.3	5739.1	3208.2	287.6	6.4	5.4	7.8
71°	6620.9	5730.2	3167.2	277.9	6.3	5.3	8.0
71.5°	6618.2	5720.7	3126.3	268.7	6.2	5.4	8.1
72°	6615.8	5712.1	3084.6	259.6	6.1	5.4	8.3
72.5°	6614.9	5703.6	3044.7	249.5	5.7	5.4	8.5
73°	6613.2	5697.5	3005.1	239.3	5.4	5.5	8.7
73.5°	6610.7	5691.3	2966.4	229.1	5.3	5.5	8.9
74°	6608.9	5684.6	2926.3	218.9	5.2	5.5	9.1
74.5°	6605.7	5678.3	2885.3	207.8	5.2	5.7	9.4
75°	6603.2	5670.0	2844.7	196.1	5.3	5.9	9.6
75.5°	6602.1	5664.6	2800.5	184.3	5.2	6.1	9.9
76°	6598.1	5660.0	2748.7	172.4	5.3	6.2	10.1
76.5°	6594.1	5656.2	2695.2	160.7	5.3	6.5	10.4
77°	6591.6	5653.1	2642.1	149.2	5.3	6.7	10.6
77.5°	6586.8	5652.5	2587.1	137.6	5.3	6.8	10.8
78°	6579.9	5650.4	2534.0	126.4	5.3	7.0	10.9
78.5°	6572.5	5645.2	2483.9	115.9	5.4	7.2	11.2
79°	6562.8	5637.2	2438.1	105.0	5.4	7.4	11.4
79.5°	6549.2	5629.0	2393.6	94.5	5.5	7.6	11.6
80°	6532.9	5623.4	2348.7	84.0	5.5	7.8	11.8
80.5°	6511.0	5617.5	2303.4	74.5	5.6	8.0	12.0
81°	6485.5	5612.0	2262.3	66.2	5.7	8.1	12.2
81.5°	6453.4	5606.0	2222.3	59.0	5.8	8.3	12.5
82°	6419.4	5599.1	2183.7	53.0	5.8	8.5	12.7
82.5°	6380.5	5594.6	2146.7	47.4	5.9	8.7	12.9
83°	6336.1	5587.7	2105.2	42.7	6.0	8.9	13.0
83.5°	6290.7	5579.9	2064.6	38.3	6.1	9.1	13.2
84°	6248.4	5572.4	2024.1	34.2	6.2	9.2	13.4
84.5°	6201.5	5563.8	1983.5	30.5	6.3	9.4	13.6
85°	6155.1	5550.6	1945.4	27.3	6.4	9.6	13.8
85.5°	6113.7	5540.3	1911.3	24.3	6.5	9.8	14.0
86°	6068.7	5536.4	1880.3	21.6	6.6	10.0	14.2
86.5°	6029.0	5550.6	1854.8	19.0	6.7	10.2	14.4
87°	5998.5	5583.3	1834.8	16.7	6.9	10.4	14.6
87.5°	5984.8	5634.9	1827.0	14.5	7.0	10.6	14.8
88°	5985.7	5712.6	1831.7	12.4	7.1	10.8	14.9
88.5°	6007.5	5829.2	1851.1	10.6	7.3	11.0	15.1
89°	6047.0	5960.6	1888.9	9.2	7.4	11.2	15.2
89.5°	6120.5	6115.9	1947.0	7.9	7.5	11.3	15.4

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	6233.5	6260.0	2010.1	6.6	7.7	11.5	15.5
90.5°	6383.7	6362.6	2078.8	6.3	7.8	11.7	15.7
91°	6581.6	6364.5	2145.7	6.2	7.9	11.9	15.9
91.5°	6768.9	6236.1	2198.1	6.1	8.1	12.1	16.0
92°	6843.2	5909.7	2211.3	5.9	8.2	12.3	16.2
92.5°	6767.0	5425.8	2180.7	5.8	8.3	12.4	16.3
93°	6534.2	4846.4	2094.9	5.8	8.5	12.6	16.4
93.5°	6087.8	4319.1	1948.8	5.7	8.6	12.7	16.6
94°	5642.3	3889.9	1724.4	5.6	8.7	12.9	16.7
94.5°	5198.2	3600.1	1455.5	5.5	8.8	13.0	16.8
95°	4754.9	3388.2	1181.5	5.5	8.9	13.1	16.9
95.5°	4315.9	3306.6	937.3	5.4	9.0	13.2	17.0
96°	3981.8	3404.2	763.0	5.4	9.1	13.4	17.1
96.5°	3735.1	3658.4	677.1	5.3	9.2	13.5	17.2
97°	3596.6	3902.8	591.1	5.3	9.3	13.7	17.3
97.5°	3640.8	3973.1	505.1	5.2	9.4	13.9	17.4
98°	3820.4	3656.9	419.2	5.2	9.5	14.0	17.5
98.5°	4016.1	2961.3	333.5	5.1	9.7	14.2	17.7
99°	4011.8	2136.2	320.2	5.1	9.8	14.3	17.8
99.5°	3605.2	1653.4	321.4	5.1	9.9	14.5	17.9
100°	2752.8	1188.9	308.4	5.0	10.0	14.6	18.0
100.5°	2247.7	724.5	294.5	4.9	10.1	14.8	18.0
101°	1742.7	260.0	276.8	4.9	10.2	14.9	18.1
101.5°	1242.2	240.1	247.0	4.9	10.2	15.0	18.2
102°	741.6	225.5	236.7	4.8	10.3	15.1	18.2
102.5°	254.8	210.8	225.1	4.8	10.4	15.3	18.3
103°	241.4	196.0	194.5	4.8	10.5	15.4	18.3
103.5°	240.2	199.7	117.1	4.8	10.6	15.5	18.4
104°	250.3	194.7	87.7	4.8	10.6	15.5	18.4
104.5°	260.9	181.6	74.2	4.8	10.7	15.6	18.5
105°	266.4	163.9	62.3	4.8	10.8	15.7	18.5
105.5°	260.9	147.0	53.0	4.8	10.9	15.8	18.5
106°	233.4	128.1	44.5	4.8	11.0	15.9	18.6
106.5°	206.9	114.4	37.2	4.8	11.0	16.1	18.6
107°	188.2	104.9	30.4	4.8	11.1	16.2	18.7
107.5°	169.0	98.3	24.6	4.8	11.2	16.3	18.8
108°	153.0	94.7	20.1	4.8	11.3	16.4	18.8
108.5°	143.7	92.3	16.4	4.8	11.4	16.5	18.9
109°	139.9	91.6	13.5	4.9	11.5	16.6	18.9
109.5°	139.9	94.4	12.0	5.0	11.6	16.7	18.9
110°	141.6	98.6	10.9	5.0	11.6	16.7	19.0
110.5°	141.9	101.9	9.8	5.1	11.7	16.8	19.0
111°	140.4	103.6	8.7	5.2	11.8	16.9	19.0
111.5°	138.8	102.8	7.6	5.2	11.8	16.9	19.1
112°	136.0	99.9	6.8	5.3	11.9	17.0	19.1

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	129.4	95.8	6.2	5.4	12.0	17.0	19.1
113°	123.2	85.7	5.6	5.4	12.0	17.1	19.1
113.5°	114.9	66.8	5.2	5.5	12.1	17.1	19.1
114°	103.3	44.5	4.8	5.6	12.2	17.2	19.2
114.5°	89.2	24.6	4.4	5.7	12.2	17.3	19.2
115°	73.4	15.5	4.1	5.8	12.3	17.3	19.2
115.5°	59.3	12.0	3.9	5.8	12.4	17.4	19.2
116°	44.9	9.3	3.7	5.9	12.4	17.4	19.2
116.5°	28.2	6.8	3.4	6.0	12.5	17.4	19.3
117°	17.0	4.9	3.2	6.0	12.6	17.5	19.3
117.5°	12.1	3.6	3.0	6.1	12.6	17.5	19.3
118°	9.0	2.7	2.8	6.2	12.7	17.5	19.3
118.5°	6.6	2.3	2.7	6.3	12.7	17.6	19.3
119°	4.8	1.9	2.5	6.4	12.8	17.6	19.3
119.5°	3.7	1.8	2.4	6.4	12.8	17.6	19.3
120°	3.0	1.7	2.3	6.5	12.9	17.6	19.3
120.5°	2.4	1.6	2.2	6.6	12.9	17.7	19.3
121°	2.0	1.5	2.2	6.7	13.0	17.7	19.3
121.5°	1.8	1.5	2.2	6.7	13.0	17.8	19.3
122°	1.7	1.4	2.2	6.8	13.1	17.8	19.3
122.5°	1.7	1.4	2.2	6.9	13.1	17.8	19.3
123°	1.6	1.4	2.3	7.0	13.2	17.8	19.3
123.5°	1.6	1.4	2.3	7.1	13.2	17.8	19.3
124°	1.6	1.4	2.4	7.1	13.2	17.9	19.3
124.5°	1.5	1.4	2.4	7.2	13.3	17.9	19.3
125°	1.5	1.4	2.5	7.3	13.3	17.9	19.3
125.5°	1.5	1.4	2.6	7.4	13.4	17.9	19.3
126°	1.5	1.4	2.6	7.4	13.4	17.9	19.3
126.5°	1.5	1.3	2.7	7.5	13.5	17.9	19.3
127°	1.5	1.3	2.8	7.6	13.5	17.9	19.3
127.5°	1.5	1.3	2.8	7.7	13.6	17.9	19.3
128°	1.4	1.3	2.9	7.8	13.6	17.9	19.3
128.5°	1.4	1.3	3.0	7.8	13.6	17.9	19.3
129°	1.3	1.3	3.1	7.9	13.7	17.9	19.3
129.5°	1.3	1.3	3.2	8.0	13.7	17.9	19.3
130°	1.2	1.3	3.2	8.1	13.8	17.9	19.2
130.5°	1.2	1.3	3.3	8.1	13.8	17.9	19.2
131°	1.2	1.3	3.4	8.2	13.8	17.9	19.2
131.5°	1.1	1.3	3.5	8.3	13.9	17.9	19.2
132°	1.2	1.3	3.6	8.4	13.9	17.9	19.1
132.5°	1.1	1.3	3.7	8.4	14.0	17.9	19.1
133°	1.1	1.3	3.8	8.5	14.0	17.9	19.0
133.5°	1.2	1.3	3.9	8.6	14.0	17.9	19.0
134°	1.1	1.3	4.0	8.7	14.1	17.9	19.0
134.5°	1.2	1.4	4.1	8.8	14.1	17.9	18.9

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.2	1.4	4.2	8.8	14.1	17.9	18.9
135.5°	1.2	1.5	4.2	8.9	14.2	17.9	18.9
136°	1.2	1.5	4.3	9.0	14.2	17.9	18.9
136.5°	1.2	1.6	4.4	9.1	14.3	17.9	18.8
137°	1.3	1.6	4.5	9.1	14.3	17.9	18.8
137.5°	1.3	1.7	4.6	9.2	14.3	17.9	18.8
138°	1.3	1.7	4.7	9.3	14.4	17.9	18.8
138.5°	1.4	1.8	4.8	9.4	14.4	17.9	18.8
139°	1.4	1.8	4.9	9.4	14.4	17.9	18.8
139.5°	1.4	1.9	5.0	9.5	14.4	17.9	18.8
140°	1.5	1.9	5.1	9.6	14.5	17.9	18.7
140.5°	1.5	2.0	5.2	9.6	14.5	17.9	18.7
141°	1.6	2.1	5.3	9.7	14.5	17.8	18.6
141.5°	1.6	2.1	5.4	9.8	14.6	17.8	18.6
142°	1.7	2.2	5.5	9.9	14.6	17.8	18.5
142.5°	1.7	2.3	5.6	9.9	14.6	17.8	18.4
143°	1.7	2.3	5.7	10.0	14.6	17.8	18.3
143.5°	1.8	2.4	5.8	10.1	14.6	17.7	18.2
144°	1.8	2.5	5.9	10.1	14.7	17.7	18.1
144.5°	1.9	2.6	6.0	10.2	14.7	17.7	18.0
145°	1.9	2.6	6.1	10.3	14.7	17.6	17.9
145.5°	1.9	2.7	6.2	10.3	14.7	17.6	17.9
146°	2.0	2.8	6.3	10.4	14.7	17.6	17.8
146.5°	2.0	2.9	6.4	10.5	14.7	17.5	17.7
147°	2.1	3.0	6.5	10.5	14.7	17.5	17.6
147.5°	2.1	3.1	6.6	10.6	14.7	17.4	17.5
148°	2.1	3.2	6.7	10.7	14.7	17.4	17.4
148.5°	2.2	3.3	6.8	10.7	14.7	17.3	17.3
149°	2.2	3.4	6.8	10.8	14.7	17.3	17.2
149.5°	2.3	3.5	6.9	10.8	14.8	17.3	17.1
150°	2.3	3.6	7.0	10.9	14.8	17.2	17.1
150.5°	2.4	3.7	7.1	10.9	14.8	17.2	17.0
151°	2.5	3.8	7.2	11.0	14.8	17.2	16.9
151.5°	2.5	3.9	7.3	11.0	14.8	17.1	16.8
152°	2.6	4.0	7.4	11.1	14.8	17.1	16.7
152.5°	2.7	4.1	7.5	11.2	14.8	17.1	16.6
153°	2.7	4.2	7.6	11.2	14.9	17.1	16.5
153.5°	2.8	4.3	7.7	11.3	14.9	17.1	16.4
154°	2.9	4.4	7.8	11.4	14.9	17.0	16.3
154.5°	3.0	4.5	7.9	11.4	14.9	17.0	16.2
155°	3.1	4.6	8.1	11.5	14.9	17.0	16.1
155.5°	3.2	4.7	8.2	11.5	14.9	16.9	16.0
156°	3.3	4.9	8.3	11.6	14.9	16.9	15.8
156.5°	3.4	5.0	8.3	11.7	14.9	16.8	15.7
157°	3.6	5.1	8.5	11.7	14.9	16.8	15.6

REPORT NUMBER: P1197132

CATALOG NUMBER: AWP150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	3.7	5.3	8.6	11.8	14.9	16.7	15.5
158°	3.8	5.4	8.7	11.8	14.9	16.6	15.4
158.5°	3.9	5.5	8.8	11.9	14.9	16.6	15.3
159°	4.1	5.6	8.9	11.9	14.9	16.5	15.2
159.5°	4.2	5.8	9.0	12.0	14.9	16.5	15.1
160°	4.3	5.9	9.0	12.0	14.9	16.4	14.9
160.5°	4.5	6.1	9.1	12.1	14.9	16.4	14.8
161°	4.6	6.2	9.2	12.2	14.9	16.3	14.7
161.5°	4.7	6.4	9.3	12.2	14.8	16.2	14.6
162°	4.8	6.5	9.4	12.2	14.8	16.1	14.4
162.5°	4.9	6.7	9.5	12.3	14.8	16.0	14.3
163°	5.0	6.8	9.6	12.3	14.8	16.0	14.1
163.5°	5.1	6.9	9.7	12.4	14.8	15.9	14.0
164°	5.2	7.1	9.8	12.4	14.8	15.8	13.8
164.5°	5.4	7.2	9.9	12.4	14.8	15.8	13.6
165°	5.5	7.3	10.0	12.5	14.8	15.7	13.4
165.5°	5.6	7.5	10.1	12.5	14.7	15.6	13.3
166°	5.7	7.6	10.2	12.6	14.7	15.6	13.2
166.5°	5.8	7.7	10.3	12.6	14.7	15.5	13.1
167°	5.9	7.9	10.4	12.7	14.7	15.4	13.0
167.5°	6.0	8.0	10.4	12.7	14.7	15.4	12.8
168°	6.1	8.1	10.5	12.8	14.7	15.3	12.7
168.5°	6.2	8.2	10.6	12.8	14.6	15.2	12.5
169°	6.3	8.3	10.7	12.9	14.6	15.2	12.4
169.5°	6.4	8.5	10.8	12.9	14.6	15.1	12.2
170°	6.6	8.6	10.9	12.9	14.6	15.0	12.1
170.5°	6.7	8.7	11.0	13.0	14.6	14.9	11.9
171°	6.8	8.8	11.1	13.0	14.5	14.8	11.8
171.5°	6.9	8.9	11.2	13.0	14.5	14.7	11.6
172°	7.0	9.0	11.2	13.0	14.4	14.6	11.4
172.5°	7.1	9.1	11.3	13.1	14.4	14.5	11.3
173°	7.2	9.3	11.4	13.1	14.3	14.4	11.1
173.5°	7.3	9.4	11.5	13.1	14.3	14.3	10.9
174°	7.4	9.5	11.6	13.2	14.2	14.2	10.8
174.5°	7.5	9.6	11.7	13.2	14.2	14.1	10.6
175°	7.6	9.7	11.7	13.2	14.1	14.0	10.4
175.5°	7.8	9.8	11.8	13.2	14.1	13.9	10.3
176°	7.9	9.9	11.9	13.3	14.1	13.8	10.1
176.5°	8.0	10.0	12.0	13.3	14.0	13.7	10.0
177°	8.1	10.2	12.0	13.3	14.0	13.7	9.8
177.5°	8.2	10.3	12.1	13.3	13.9	13.6	9.6
178°	8.4	10.4	12.2	13.3	13.8	13.5	9.5
178.5°	8.5	10.5	12.3	13.3	13.8	13.4	9.4
179°	8.6	10.6	12.3	13.4	13.7	13.3	9.2
179.5°	8.8	10.8	12.4	13.4	13.7	13.2	9.1



REPORT NUMBER: P1197132
CATALOG NUMBER: AWPf150S-BZ-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	8.9	8.9	8.9	8.9	8.9	8.9	8.9

(END OF REPORT)