

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: P1197118

Luminaire Tested: AWPf150S-BZ-BZ-HIGH-4000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197118
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-HIGH-4000K-POSITION 15
Description: AWP ArchitecturalWall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19305 (1 lamp)
Luminaire Lumens: 21007.9 lumens
Efficiency: 108.8%
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 145
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

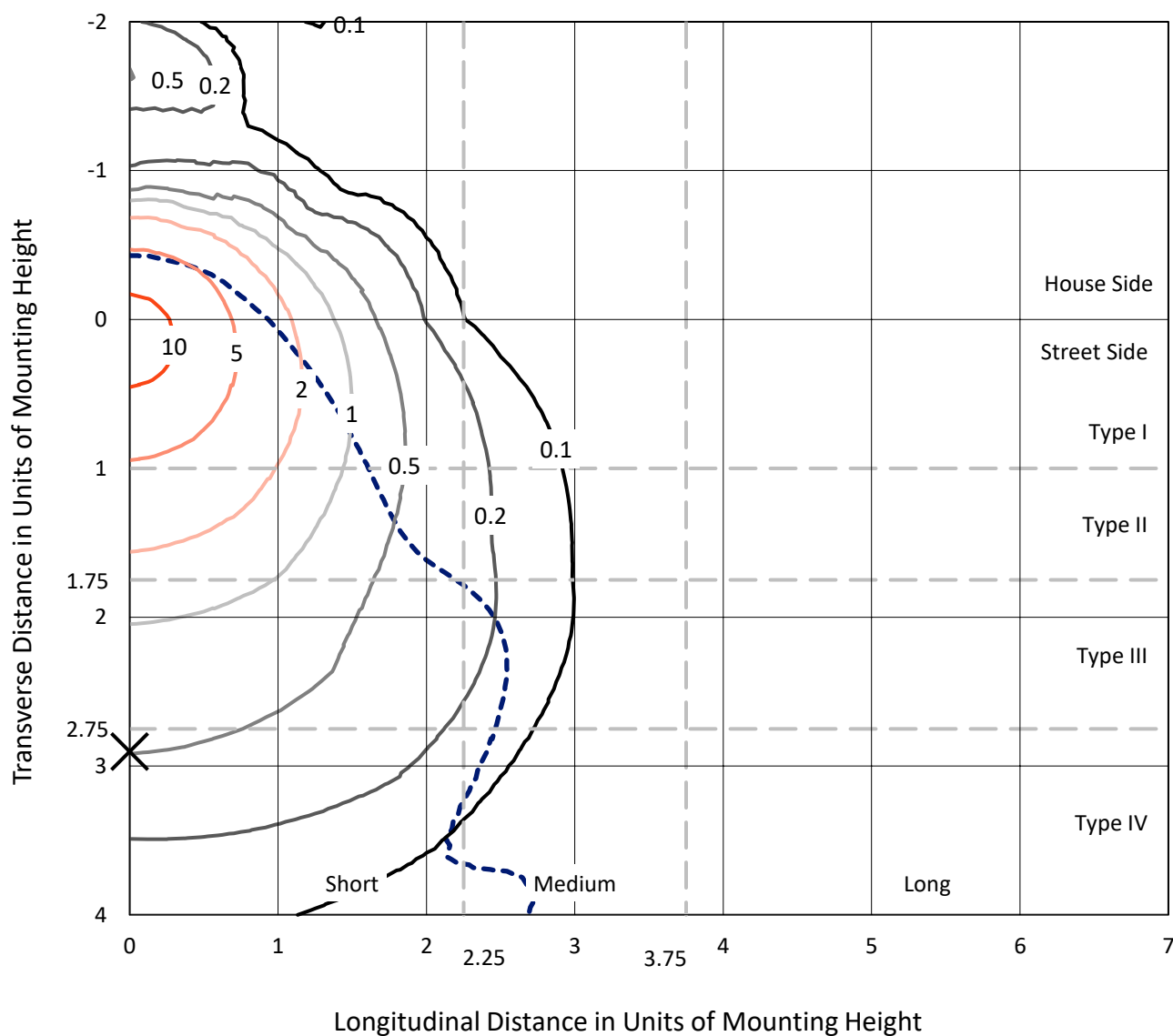
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

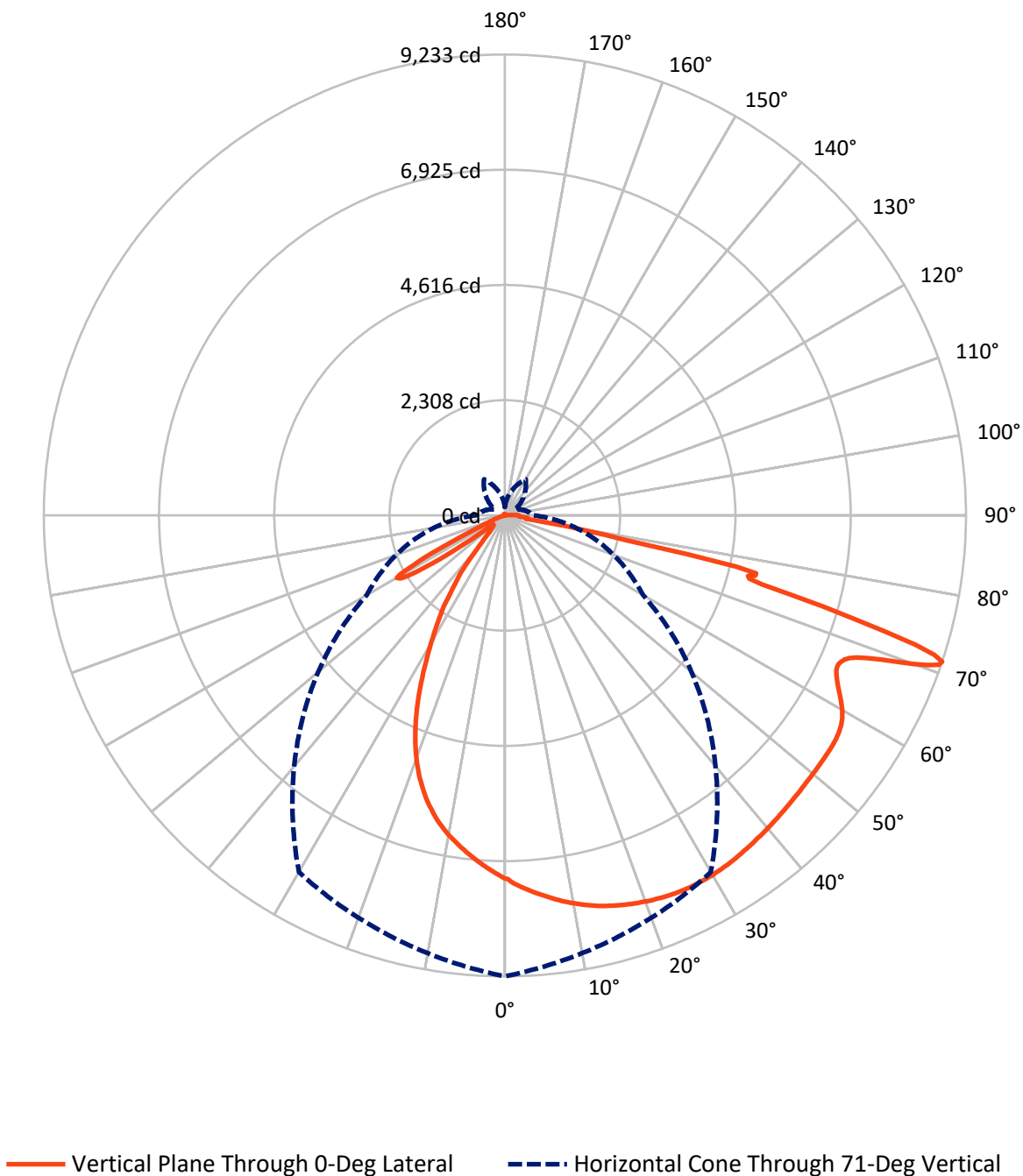


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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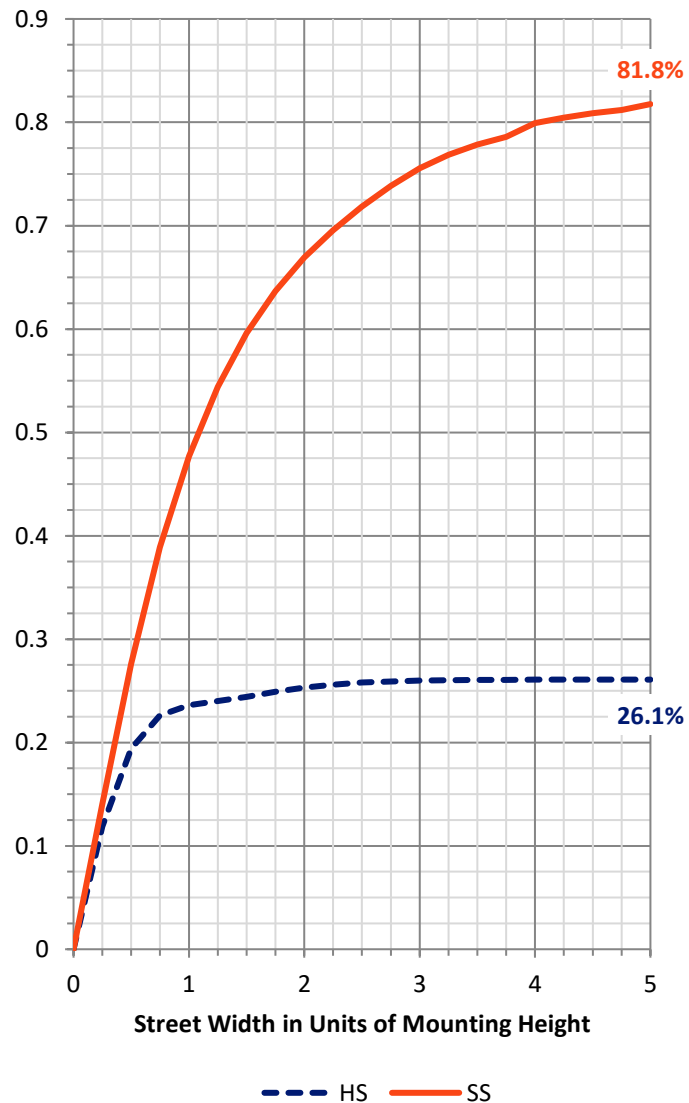
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5073.8	47.7	5121.5
	% Lamp	26.3	0.2	26.5
Street Side	Lumens	15820.4	66.0	15886.4
	% Lamp	81.9	0.3	82.3
Total	Lumens	20894.2	113.8	21007.9
	% Lamp	108.2	0.6	108.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	690.0	3.3	3.6
10°-20°	1974.9	9.4	10.2
20°-30°	2924.6	13.9	15.1
30°-40°	3329.7	15.8	17.2
40°-50°	3261.2	15.5	16.9
50°-60°	3156.0	15.0	16.3
60°-70°	2902.0	13.8	15.0
70°-80°	2219.0	10.6	11.5
80°-90°	436.9	2.1	2.3
90°-100°	50.7	0.2	0.3
100°-110°	7.6	0.0	0.0
110°-120°	8.9	0.0	0.0
120°-130°	10.2	0.0	0.1
130°-140°	10.6	0.1	0.1
140°-150°	10.0	0.0	0.1
150°-160°	8.2	0.0	0.0
160°-170°	5.6	0.0	0.0
170°-180°	2.0	0.0	0.0
0°-90°	20894.2	99.5	108.2
0°-180°	21007.9	100.0	108.8

Coefficient of Utilization



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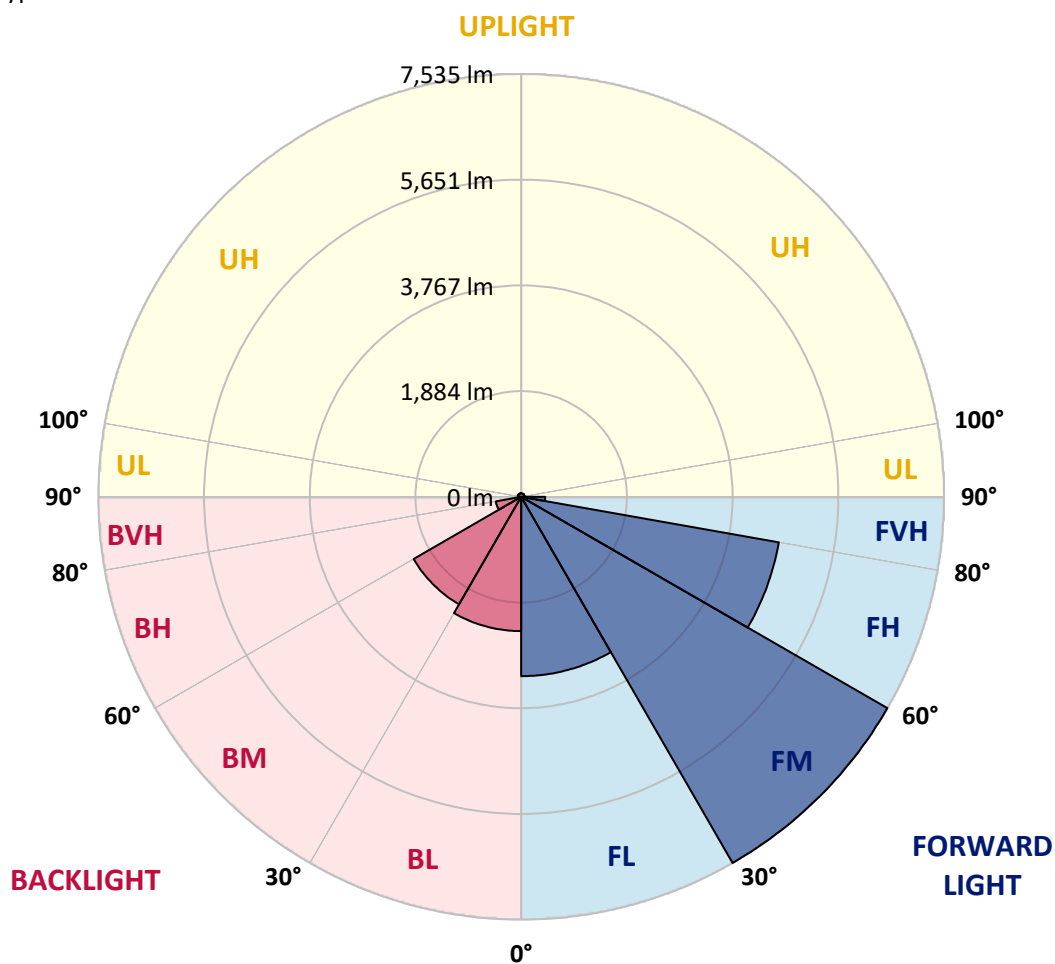
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3195.5	16.6			
FM	(30°-60°)	7534.5	39.0			
FH	(60°-80°)	4661.7	24.1			G2/5000
FVH	(80°-90°)	428.6	2.2			G3/500
BL	(0°-30°)	2393.9	12.4	B3/2500		
BM	(30°-60°)	2212.3	11.5	B2/2500		
BH	(60°-80°)	459.3	2.4	B1/500		G1/500
BVH	(80°-90°)	8.3	0.0			G0/10
UL	(90°-100°)	50.7	0.3		U3/500	
UH	(100°-180°)	63.1	0.3		U3/500	
Trapped Light		-1702.9	-8.8			

BUG Rating: B3-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	7284.9	7284.9	7284.9	7284.9	7284.9	7284.9	7284.9
0.5°	7343.1	7341.6	7313.0	7282.8	7249.5	7211.3	7273.7
1°	7379.6	7369.3	7330.3	7281.7	7231.4	7179.7	7237.3
1.5°	7411.5	7397.0	7345.9	7278.8	7212.6	7148.3	7200.7
2°	7445.8	7424.8	7360.3	7276.6	7193.1	7115.5	7166.0
2.5°	7480.0	7453.2	7374.7	7273.7	7172.7	7085.1	7129.0
3°	7512.5	7480.6	7388.6	7269.7	7152.3	7054.2	7091.9
3.5°	7544.1	7507.6	7401.6	7264.8	7130.9	7021.3	7058.0
4°	7576.4	7533.3	7415.3	7259.7	7109.8	6988.2	7020.0
4.5°	7605.0	7560.5	7427.1	7253.8	7087.2	6955.5	6983.3
5°	7634.0	7583.6	7437.4	7245.1	7066.1	6921.4	6945.5
5.5°	7665.3	7606.9	7448.0	7237.8	7041.8	6885.6	6905.3
6°	7694.3	7629.3	7458.8	7229.0	7017.6	6850.6	6865.8
6.5°	7724.5	7653.4	7467.3	7219.9	6992.6	6814.0	6827.5
7°	7754.0	7676.6	7476.5	7208.0	6966.3	6776.2	6787.6
7.5°	7782.7	7699.8	7484.1	7197.9	6940.7	6741.3	6743.9
8°	7812.3	7721.3	7492.1	7186.6	6912.7	6702.1	6706.1
8.5°	7837.5	7743.5	7498.1	7175.3	6884.6	6661.8	6663.6
9°	7862.5	7764.8	7504.5	7161.9	6856.9	6624.8	6621.1
9.5°	7889.0	7783.9	7510.4	7148.0	6827.1	6584.9	6577.9
10°	7912.7	7802.7	7514.3	7132.3	6794.2	6546.3	6539.1
10.5°	7937.0	7820.9	7518.4	7116.8	6764.3	6506.3	6494.0
11°	7960.1	7839.1	7522.2	7100.8	6732.9	6465.0	6446.2
11.5°	7981.4	7854.6	7524.9	7084.3	6700.3	6421.7	6399.0
12°	8003.3	7870.9	7526.9	7067.9	6667.8	6377.6	6352.1
12.5°	8023.1	7886.5	7527.9	7048.8	6635.2	6332.4	6301.1
13°	8042.8	7900.2	7529.8	7030.1	6599.7	6286.6	6246.9
13.5°	8062.1	7912.2	7530.6	7009.3	6569.7	6238.7	6192.8
14°	8079.5	7926.9	7529.5	6989.3	6538.4	6189.5	6135.0
14.5°	8094.7	7939.6	7527.5	6967.6	6504.8	6138.1	6073.7
15°	8109.8	7950.2	7527.3	6943.5	6471.2	6083.6	6016.5
15.5°	8126.5	7961.0	7524.3	6921.0	6437.6	6029.0	5952.0
16°	8141.1	7971.9	7521.3	6896.9	6403.9	5972.6	5886.6
16.5°	8155.6	7980.0	7518.2	6872.4	6370.2	5911.4	5817.8
17°	8169.1	7989.0	7513.1	6847.9	6331.0	5851.5	5744.6
17.5°	8181.9	7996.1	7508.3	6821.7	6289.7	5788.5	5668.9
18°	8194.4	8003.8	7503.3	6795.2	6248.9	5722.7	5595.0
18.5°	8208.1	8010.0	7498.9	6770.1	6206.0	5657.6	5522.4
19°	8218.6	8016.7	7492.2	6742.6	6162.8	5588.5	5438.5
19.5°	8230.3	8021.5	7485.1	6715.1	6119.8	5518.4	5352.6
20°	8242.2	8025.5	7477.0	6687.3	6073.1	5445.8	5268.2
20.5°	8251.6	8031.3	7467.6	6658.5	6027.7	5372.5	5176.4
21°	8259.6	8036.4	7457.2	6627.3	5980.7	5289.4	5084.0
21.5°	8269.0	8038.3	7447.1	6598.0	5933.9	5209.9	4986.2
22°	8278.5	8040.2	7436.1	6570.5	5883.9	5127.6	4891.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	8285.3	8042.2	7426.0	6541.2	5833.2	5040.1	4785.5
23°	8292.2	8044.1	7413.8	6510.4	5782.8	4953.3	4680.0
23.5°	8300.1	8045.1	7401.6	6478.4	5730.6	4862.8	4571.8
24°	8306.1	8044.1	7388.4	6444.3	5677.6	4769.1	4466.5
24.5°	8310.9	8044.0	7375.1	6409.9	5620.9	4673.6	4353.6
25°	8315.7	8043.0	7360.0	6375.0	5563.9	4575.4	4238.3
25.5°	8319.6	8041.1	7345.1	6340.7	5506.0	4477.7	4123.3
26°	8320.2	8040.0	7330.0	6303.4	5446.1	4370.5	4006.8
26.5°	8320.6	8036.0	7313.0	6265.9	5385.5	4266.4	3886.8
27°	8321.1	8032.2	7297.0	6228.0	5323.9	4159.1	3762.9
27.5°	8321.5	8028.0	7279.6	6186.7	5257.3	4044.4	3642.6
28°	8322.0	8023.1	7261.1	6146.8	5192.4	3935.4	3524.2
28.5°	8322.4	8015.4	7241.9	6106.8	5125.4	3824.0	3404.8
29°	8319.4	8008.3	7222.7	6065.0	5054.8	3703.0	3290.3
29.5°	8317.5	8001.3	7202.6	6023.6	4983.3	3585.6	3174.2
30°	8312.5	7993.3	7182.1	5981.8	4911.6	3474.0	3058.8
30.5°	8309.2	7984.2	7158.5	5939.5	4837.9	3356.2	2951.8
31°	8303.6	7973.6	7134.8	5894.3	4764.8	3239.7	2850.8
31.5°	8300.4	7962.4	7112.3	5852.3	4687.1	3129.9	2749.9
32°	8294.6	7953.6	7087.2	5806.5	4609.2	3013.6	2649.0
32.5°	8289.5	7942.4	7064.5	5761.0	4529.3	2888.9	2548.3
33°	8281.7	7930.1	7037.4	5715.2	4447.6	2791.6	2447.4
33.5°	8274.7	7919.0	7010.2	5667.7	4362.8	2694.4	2356.8
34°	8268.5	7908.2	6983.7	5620.4	4277.0	2597.3	2272.6
34.5°	8261.7	7895.5	6954.1	5573.6	4187.9	2500.2	2170.6
35°	8252.6	7883.5	6923.6	5527.9	4096.9	2404.7	2026.1
35.5°	8244.9	7870.2	6894.8	5478.5	4003.4	2310.0	1903.1
36°	8237.9	7856.1	6864.6	5428.7	3909.7	2224.7	1796.9
36.5°	8230.8	7840.6	6831.4	5374.0	3810.4	2139.0	1703.2
37°	8221.9	7825.4	6798.4	5320.9	3713.3	2055.2	1619.2
37.5°	8213.3	7809.4	6768.8	5267.7	3614.4	1976.9	1534.7
38°	8206.2	7793.3	6735.3	5214.1	3512.4	1907.0	1438.0
38.5°	8199.1	7778.3	6699.2	5155.9	3408.3	1812.6	1322.9
39°	8191.9	7761.5	6665.7	5100.1	3302.9	1690.2	1183.1
39.5°	8184.3	7745.7	6631.7	5043.6	3199.8	1580.8	1045.5
40°	8177.2	7728.8	6596.1	4984.4	3095.7	1481.7	915.5
40.5°	8169.2	7711.9	6564.4	4924.8	2992.7	1395.4	806.0
41°	8161.3	7695.8	6532.8	4864.9	2890.5	1305.6	713.1
41.5°	8154.2	7678.4	6499.8	4803.2	2788.8	1206.1	641.5
42°	8145.2	7660.2	6466.8	4739.7	2688.2	1086.2	576.3
42.5°	8137.6	7641.6	6433.9	4676.1	2594.6	963.6	521.0
43°	8130.4	7623.2	6400.9	4612.1	2505.9	840.1	476.9
43.5°	8122.7	7604.1	6367.6	4546.5	2422.3	739.5	441.4
44°	8113.8	7583.5	6328.9	4483.2	2345.4	656.4	413.6
44.5°	8107.7	7568.9	6290.1	4416.5	2270.9	599.3	393.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	8099.8	7549.3	6251.5	4348.5	2192.0	558.4	379.7
45.5°	8093.8	7528.5	6211.9	4281.4	2104.1	532.3	369.3
46°	8088.8	7508.8	6172.2	4212.1	2008.8	517.7	362.8
46.5°	8082.6	7490.7	6131.7	4145.1	1918.7	508.1	359.4
47°	8075.9	7470.8	6091.4	4076.9	1834.8	499.5	357.1
47.5°	8070.6	7449.7	6049.8	4009.5	1763.6	491.3	352.3
48°	8064.0	7432.0	6008.9	3941.1	1698.6	482.0	341.8
48.5°	8059.0	7415.5	5968.1	3873.3	1636.6	473.6	327.5
49°	8055.9	7397.9	5926.0	3806.4	1574.9	467.0	311.8
49.5°	8051.0	7382.0	5885.0	3739.7	1508.3	462.7	305.7
50°	8048.0	7364.6	5842.6	3673.6	1431.1	459.7	300.2
50.5°	8044.9	7349.7	5796.7	3608.2	1337.4	456.8	294.6
51°	8041.7	7337.6	5752.2	3538.6	1231.4	450.7	289.1
51.5°	8037.0	7322.9	5707.8	3471.7	1118.0	441.8	297.9
52°	8033.8	7307.0	5658.8	3397.5	1003.3	433.0	310.9
52.5°	8030.8	7294.7	5609.9	3324.9	905.1	426.5	325.7
53°	8027.8	7282.6	5561.9	3246.1	819.6	421.7	336.0
53.5°	8023.8	7271.4	5510.7	3168.6	753.7	417.1	337.0
54°	8019.8	7258.1	5459.0	3085.5	703.6	412.3	354.1
54.5°	8014.8	7245.3	5407.9	3005.0	668.7	408.0	579.4
55°	8008.0	7231.9	5354.2	2923.7	633.7	405.0	818.3
55.5°	7999.6	7221.2	5298.7	2843.2	598.8	402.6	1057.2
56°	7988.8	7209.1	5244.1	2762.7	563.9	399.4	1296.2
56.5°	7976.3	7199.1	5187.0	2682.1	530.2	392.6	1535.0
57°	7958.3	7190.2	5126.4	2601.7	515.4	378.2	1726.6
57.5°	7939.1	7182.1	5067.3	2515.9	503.2	354.1	1916.0
58°	7911.9	7172.2	5004.2	2423.7	491.5	316.1	2105.2
58.5°	7879.6	7160.1	4938.5	2328.9	480.4	292.6	2263.9
59°	7841.2	7148.6	4874.5	2228.4	469.0	269.7	2384.2
59.5°	7799.8	7129.4	4808.1	2129.1	458.1	246.7	2446.2
60°	7750.9	7111.1	4741.2	2031.6	447.4	223.6	2478.0
60.5°	7698.4	7092.5	4672.9	1930.2	436.2	206.2	2497.0
61°	7641.4	7071.2	4606.1	1828.5	424.4	182.7	2429.7
61.5°	7585.6	7048.5	4539.7	1723.9	413.5	162.9	2265.9
62°	7533.2	7026.6	4473.6	1621.0	402.6	158.5	2087.7
62.5°	7480.9	7004.0	4407.0	1518.7	391.8	162.0	1921.5
63°	7435.2	6981.2	4335.0	1420.9	380.8	167.8	1726.3
63.5°	7391.4	6959.0	4257.7	1323.6	370.1	175.9	1489.3
64°	7353.2	6940.0	4182.0	1231.8	360.4	192.3	1237.8
64.5°	7323.9	6919.6	4107.1	1145.8	351.8	237.0	974.3
65°	7311.5	6900.2	4032.6	1070.1	343.9	417.6	759.9
65.5°	7318.0	6881.5	3961.1	1005.9	335.6	600.8	614.6
66°	7344.0	6859.2	3888.8	953.5	326.9	784.2	513.6
66.5°	7392.6	6849.2	3820.2	911.6	318.4	967.7	443.8
67°	7470.2	6856.5	3754.4	867.2	310.9	1151.4	386.9

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	7602.5	6897.2	3686.7	796.7	303.2	1219.3	340.8
68°	7790.5	6979.8	3616.5	717.6	293.8	1208.5	304.6
68.5°	8052.8	7094.7	3548.7	663.7	282.3	1165.6	280.8
69°	8370.7	7272.2	3481.0	640.0	271.9	1110.3	257.4
69.5°	8694.2	7489.1	3411.3	625.1	258.6	1051.1	234.0
70°	8985.2	7750.8	3338.2	612.8	246.3	984.8	210.5
70.5°	9191.3	8022.4	3266.4	596.3	236.7	910.7	191.3
71°	9232.8	8247.8	3193.3	574.6	227.4	835.7	171.3
71.5°	9046.3	8385.5	3123.9	549.4	217.1	763.2	150.4
72°	8629.6	8426.1	3060.0	523.4	202.5	696.7	131.5
72.5°	7967.1	8287.3	2995.8	499.3	177.3	628.1	113.6
73°	7303.9	7961.4	2940.8	476.1	160.3	557.6	93.4
73.5°	6640.3	7475.6	2893.0	450.8	147.7	472.8	73.5
74°	5976.1	6827.7	2852.2	423.7	126.0	375.5	55.3
74.5°	5325.9	6171.2	2816.1	397.8	111.3	281.0	42.1
75°	5056.9	5603.7	2785.0	373.1	104.7	215.2	32.4
75.5°	5020.2	5134.8	2759.6	348.7	99.2	150.6	29.0
76°	5156.4	4798.2	2745.6	323.6	93.7	85.9	27.0
76.5°	5164.6	4628.8	2747.9	296.2	87.4	21.2	24.9
77°	4746.2	4725.8	2759.9	268.7	76.3	9.3	22.8
77.5°	3721.7	4940.5	2797.9	241.1	64.0	7.9	20.5
78°	2459.8	5044.9	2866.9	213.6	54.6	7.9	18.5
78.5°	2052.6	4711.5	2963.6	186.0	43.8	8.3	16.8
79°	1644.0	3916.8	3072.5	161.1	34.3	8.8	15.4
79.5°	1234.6	2916.1	3163.9	140.1	27.2	9.6	14.1
80°	826.8	2389.5	3211.2	124.7	22.4	10.3	13.1
80.5°	428.3	1893.1	3211.0	111.4	18.7	10.9	12.1
81°	422.5	1396.7	3166.7	100.0	15.7	11.3	11.2
81.5°	437.1	900.1	3088.7	89.9	12.4	11.5	10.6
82°	453.9	403.4	2966.5	80.4	9.6	11.5	10.0
82.5°	465.3	367.1	2793.9	71.7	7.2	11.5	9.5
83°	455.2	345.7	2576.3	63.8	6.2	11.5	9.2
83.5°	411.1	340.2	2285.0	56.3	5.9	11.5	8.9
84°	363.6	346.9	1983.0	49.9	5.7	11.3	8.8
84.5°	335.1	345.2	1687.5	44.1	5.6	11.1	8.7
85°	315.5	340.1	1425.4	38.7	5.4	10.9	8.5
85.5°	303.4	314.4	1199.6	34.1	5.3	10.6	8.5
86°	293.5	285.9	1016.9	29.8	5.2	10.2	8.4
86.5°	278.9	257.6	902.0	25.8	5.0	9.7	8.4
87°	270.9	229.3	787.2	22.2	4.9	9.3	8.4
87.5°	273.1	200.9	672.3	18.7	4.8	8.8	8.4
88°	276.0	187.5	557.5	15.4	4.7	8.3	8.4
88.5°	275.4	172.9	443.4	12.5	4.6	7.8	8.5
89°	272.2	164.6	402.4	10.5	4.5	7.3	8.7
89.5°	266.6	160.9	368.5	8.3	4.5	6.9	8.8

REPORT NUMBER: P1197118

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	257.5	160.5	334.4	7.3	4.5	6.6	9.0
90.5°	242.7	162.4	304.0	7.0	4.5	6.4	9.2
91°	221.0	164.3	280.7	6.7	4.5	6.4	9.4
91.5°	192.4	165.0	259.7	6.5	4.5	6.3	9.6
92°	160.7	162.0	241.2	6.3	4.5	6.2	9.8
92.5°	133.8	153.6	222.8	6.1	4.5	6.2	10.0
93°	113.5	141.0	197.1	6.0	4.6	6.2	10.2
93.5°	97.0	127.9	146.8	5.9	4.6	6.3	10.4
94°	83.5	119.0	111.9	5.8	4.7	6.4	10.7
94.5°	72.5	112.0	67.6	5.6	4.8	6.5	10.9
95°	66.0	104.0	48.0	5.5	4.9	6.7	11.2
95.5°	63.5	93.5	36.4	5.4	5.0	6.9	11.5
96°	62.8	80.2	28.5	5.3	5.1	7.1	11.8
96.5°	61.5	66.1	24.7	5.2	5.3	7.3	12.0
97°	57.7	53.4	22.8	5.2	5.4	7.5	12.3
97.5°	52.4	41.6	21.1	5.2	5.6	7.7	12.6
98°	44.1	26.6	19.4	5.2	5.8	7.9	12.9
98.5°	33.7	10.6	17.7	5.1	5.9	8.1	13.1
99°	18.8	5.6	15.9	5.1	6.1	8.4	13.4
99.5°	7.7	4.0	14.3	5.1	6.3	8.6	13.6
100°	5.6	3.3	12.9	5.1	6.5	8.8	13.9
100.5°	4.3	2.9	11.4	5.1	6.8	9.1	14.1
101°	3.7	2.7	10.2	5.1	7.0	9.3	14.4
101.5°	3.0	2.5	9.1	5.1	7.2	9.6	14.7
102°	2.9	2.4	8.2	5.1	7.4	9.8	15.0
102.5°	2.8	2.3	7.4	5.1	7.6	10.1	15.3
103°	2.8	2.2	6.7	5.2	7.9	10.3	15.5
103.5°	2.7	2.1	6.1	5.2	8.1	10.6	15.8
104°	2.7	2.1	5.6	5.3	8.3	10.8	16.0
104.5°	2.6	2.0	5.1	5.4	8.5	11.1	16.3
105°	2.5	2.0	4.8	5.5	8.8	11.3	16.5
105.5°	2.3	2.0	4.4	5.6	9.0	11.6	16.7
106°	2.2	2.0	4.1	5.7	9.2	11.8	16.9
106.5°	2.1	2.0	3.9	5.9	9.5	12.1	17.2
107°	2.0	1.9	3.6	6.0	9.7	12.3	17.4
107.5°	2.0	1.9	3.3	6.1	9.9	12.6	17.7
108°	1.9	1.9	3.0	6.3	10.1	12.8	17.9
108.5°	1.8	1.9	2.9	6.4	10.4	13.1	18.1
109°	1.8	1.9	2.8	6.5	10.6	13.3	18.2
109.5°	1.8	1.9	2.8	6.7	10.8	13.5	18.4
110°	1.7	1.8	2.8	6.8	11.1	13.8	18.6
110.5°	1.7	1.8	2.8	7.0	11.3	14.0	18.8
111°	1.6	1.8	2.8	7.1	11.6	14.3	18.9
111.5°	1.6	1.7	2.8	7.2	11.8	14.5	19.1
112°	1.6	1.7	2.9	7.4	12.0	14.8	19.3

REPORT NUMBER: P1197118

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.6	1.7	2.9	7.5	12.3	15.0	19.5
113°	1.6	1.7	3.0	7.6	12.5	15.2	19.7
113.5°	1.6	1.7	3.1	7.7	12.7	15.5	19.8
114°	1.6	1.7	3.2	7.8	13.0	15.7	20.0
114.5°	1.6	1.7	3.2	8.0	13.2	15.9	20.2
115°	1.6	1.7	3.3	8.1	13.4	16.2	20.3
115.5°	1.7	1.8	3.5	8.2	13.6	16.4	20.5
116°	1.7	1.8	3.6	8.3	13.8	16.6	20.6
116.5°	1.7	1.8	3.7	8.4	14.0	16.8	20.7
117°	1.8	1.9	3.8	8.5	14.2	17.0	20.9
117.5°	1.8	2.0	3.9	8.7	14.4	17.2	21.0
118°	1.8	2.0	4.0	8.8	14.6	17.4	21.1
118.5°	1.9	2.1	4.2	8.9	14.7	17.6	21.2
119°	1.9	2.2	4.3	9.0	14.9	17.8	21.3
119.5°	2.0	2.2	4.4	9.2	15.1	17.9	21.5
120°	2.1	2.3	4.6	9.3	15.3	18.1	21.6
120.5°	2.1	2.4	4.7	9.4	15.4	18.2	21.7
121°	2.2	2.5	4.8	9.5	15.6	18.4	21.8
121.5°	2.2	2.6	5.0	9.7	15.8	18.5	21.9
122°	2.3	2.7	5.1	9.8	15.9	18.7	21.9
122.5°	2.3	2.8	5.2	10.0	16.1	18.9	22.0
123°	2.4	2.8	5.4	10.1	16.2	19.0	22.0
123.5°	2.4	2.9	5.5	10.2	16.4	19.1	22.0
124°	2.5	3.0	5.7	10.4	16.5	19.3	22.1
124.5°	2.5	3.1	5.8	10.5	16.7	19.4	22.1
125°	2.6	3.2	5.9	10.6	16.8	19.5	22.1
125.5°	2.7	3.3	6.1	10.8	17.0	19.6	22.2
126°	2.8	3.4	6.2	10.9	17.1	19.7	22.2
126.5°	2.8	3.5	6.4	11.1	17.2	19.8	22.2
127°	2.9	3.6	6.5	11.2	17.3	19.9	22.3
127.5°	3.0	3.8	6.7	11.4	17.4	20.0	22.3
128°	3.1	3.9	6.8	11.5	17.5	20.1	22.3
128.5°	3.1	4.0	7.0	11.7	17.6	20.3	22.3
129°	3.2	4.1	7.1	11.8	17.7	20.4	22.3
129.5°	3.3	4.3	7.3	12.0	17.9	20.5	22.4
130°	3.4	4.4	7.4	12.1	18.0	20.6	22.5
130.5°	3.5	4.5	7.5	12.2	18.1	20.7	22.5
131°	3.6	4.6	7.7	12.4	18.2	20.9	22.6
131.5°	3.7	4.8	7.9	12.5	18.3	21.0	22.6
132°	3.8	4.9	8.0	12.7	18.4	21.1	22.7
132.5°	3.9	5.0	8.1	12.8	18.4	21.2	22.8
133°	4.0	5.1	8.3	13.0	18.5	21.4	22.8
133.5°	4.1	5.3	8.4	13.1	18.6	21.5	22.9
134°	4.2	5.4	8.6	13.2	18.7	21.6	23.0
134.5°	4.3	5.5	8.7	13.4	18.8	21.7	23.0

REPORT NUMBER: P1197118

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	4.4	5.7	8.9	13.5	18.9	21.8	23.1
135.5°	4.5	5.8	9.0	13.7	19.0	21.9	23.2
136°	4.6	5.9	9.2	13.8	19.1	22.0	23.2
136.5°	4.8	6.1	9.3	13.9	19.1	22.1	23.3
137°	4.9	6.2	9.5	14.1	19.2	22.2	23.4
137.5°	5.0	6.4	9.6	14.2	19.3	22.2	23.5
138°	5.2	6.5	9.8	14.3	19.3	22.2	23.6
138.5°	5.3	6.7	9.9	14.5	19.4	22.3	23.8
139°	5.4	6.8	10.1	14.6	19.5	22.3	23.8
139.5°	5.6	7.0	10.3	14.8	19.6	22.4	23.9
140°	5.7	7.2	10.4	14.9	19.6	22.4	23.9
140.5°	5.8	7.3	10.6	15.0	19.7	22.4	23.9
141°	6.0	7.5	10.7	15.2	19.8	22.5	23.9
141.5°	6.1	7.7	10.9	15.3	19.8	22.5	23.9
142°	6.3	7.9	11.0	15.4	19.9	22.5	23.9
142.5°	6.4	8.1	11.2	15.6	20.0	22.5	24.0
143°	6.6	8.2	11.4	15.7	20.0	22.5	24.0
143.5°	6.8	8.4	11.5	15.8	20.1	22.5	24.0
144°	6.9	8.6	11.7	15.9	20.2	22.5	24.0
144.5°	7.1	8.8	11.8	16.0	20.2	22.5	23.9
145°	7.2	9.0	12.0	16.1	20.3	22.5	23.9
145.5°	7.4	9.2	12.1	16.3	20.3	22.5	23.9
146°	7.6	9.3	12.3	16.4	20.4	22.5	23.9
146.5°	7.7	9.5	12.5	16.5	20.5	22.5	23.8
147°	7.9	9.7	12.6	16.6	20.5	22.5	23.8
147.5°	8.1	9.8	12.8	16.7	20.6	22.5	23.7
148°	8.2	10.0	12.9	16.8	20.6	22.5	23.7
148.5°	8.3	10.1	13.1	17.0	20.7	22.6	23.7
149°	8.5	10.3	13.2	17.1	20.8	22.6	23.6
149.5°	8.6	10.4	13.3	17.2	20.8	22.6	23.6
150°	8.8	10.6	13.5	17.3	20.9	22.6	23.6
150.5°	8.9	10.7	13.7	17.4	21.0	22.7	23.6
151°	9.1	10.9	13.8	17.6	21.0	22.7	23.6
151.5°	9.2	11.0	13.9	17.7	21.1	22.7	23.6
152°	9.4	11.2	14.1	17.8	21.2	22.8	23.5
152.5°	9.5	11.3	14.3	18.0	21.3	22.8	23.5
153°	9.7	11.5	14.4	18.1	21.3	22.9	23.5
153.5°	9.8	11.7	14.6	18.2	21.4	22.9	23.4
154°	10.0	11.8	14.7	18.3	21.5	23.0	23.4
154.5°	10.2	12.0	14.9	18.5	21.6	23.0	23.4
155°	10.3	12.2	15.1	18.6	21.7	23.1	23.4
155.5°	10.5	12.3	15.2	18.7	21.8	23.1	23.3
156°	10.6	12.5	15.4	18.9	21.8	23.1	23.3
156.5°	10.8	12.7	15.5	18.9	21.9	23.1	23.3
157°	11.0	12.8	15.7	19.1	21.9	23.1	23.3

REPORT NUMBER: P1197118

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	11.1	13.0	15.9	19.2	22.0	23.1	23.3
158°	11.3	13.1	16.0	19.3	22.0	23.1	23.3
158.5°	11.5	13.3	16.2	19.4	22.1	23.2	23.3
159°	11.6	13.5	16.3	19.5	22.1	23.2	23.3
159.5°	11.8	13.6	16.5	19.6	22.2	23.2	23.3
160°	12.0	13.8	16.6	19.7	22.2	23.2	23.3
160.5°	12.2	14.0	16.8	19.8	22.3	23.2	23.2
161°	12.4	14.1	16.9	19.9	22.3	23.2	23.2
161.5°	12.6	14.3	17.1	20.0	22.3	23.2	23.2
162°	12.7	14.5	17.2	20.0	22.4	23.2	23.1
162.5°	12.9	14.6	17.3	20.1	22.4	23.2	23.1
163°	13.1	14.8	17.5	20.2	22.5	23.2	23.0
163.5°	13.3	15.0	17.6	20.3	22.5	23.2	22.9
164°	13.4	15.2	17.8	20.4	22.5	23.2	22.8
164.5°	13.6	15.3	17.9	20.5	22.6	23.2	22.7
165°	13.8	15.5	18.1	20.6	22.6	23.2	22.7
165.5°	14.0	15.7	18.3	20.7	22.6	23.2	22.6
166°	14.3	15.9	18.4	20.8	22.7	23.2	22.6
166.5°	14.5	16.1	18.6	20.9	22.7	23.2	22.6
167°	14.7	16.3	18.7	21.0	22.8	23.2	22.6
167.5°	14.9	16.5	18.9	21.1	22.8	23.2	22.6
168°	15.2	16.7	19.1	21.2	22.8	23.2	22.5
168.5°	15.4	16.9	19.2	21.3	22.8	23.2	22.5
169°	15.7	17.1	19.4	21.4	22.8	23.2	22.4
169.5°	15.9	17.3	19.5	21.4	22.8	23.2	22.3
170°	16.1	17.5	19.7	21.5	22.8	23.2	22.3
170.5°	16.4	17.7	19.8	21.6	22.8	23.1	22.2
171°	16.6	17.9	19.9	21.6	22.8	23.1	22.2
171.5°	16.8	18.1	20.1	21.7	22.8	23.1	22.1
172°	17.0	18.2	20.2	21.7	22.8	23.1	21.9
172.5°	17.1	18.4	20.3	21.8	22.8	23.0	21.8
173°	17.3	18.5	20.4	21.8	22.7	22.9	21.7
173.5°	17.5	18.7	20.5	21.8	22.7	22.9	21.5
174°	17.7	18.9	20.6	21.9	22.7	22.8	21.4
174.5°	17.9	19.1	20.7	21.9	22.7	22.8	21.3
175°	18.1	19.2	20.9	22.0	22.7	22.7	21.2
175.5°	18.2	19.4	20.9	22.0	22.7	22.7	21.1
176°	18.4	19.6	21.1	22.0	22.7	22.6	20.9
176.5°	18.6	19.7	21.2	22.1	22.7	22.6	20.8
177°	18.8	19.8	21.3	22.1	22.6	22.5	20.7
177.5°	18.9	20.0	21.4	22.1	22.6	22.4	20.5
178°	19.1	20.2	21.5	22.2	22.6	22.4	20.4
178.5°	19.3	20.3	21.6	22.2	22.5	22.3	20.2
179°	19.4	20.5	21.7	22.3	22.5	22.2	20.1
179.5°	19.6	20.6	21.8	22.3	22.5	22.1	19.9



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CATALOG NUMBER: AWPf150S-BZ-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	19.8	19.8	19.8	19.8	19.8	19.8	19.8

(END OF REPORT)