

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: P1197111

Luminaire Tested: AWPf150S-BZ-BZ-MID-4000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197111
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-4000K-POSITION 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 16800 (1 lamp)
Luminaire Lumens: 17557.9 lumens
Efficiency: 104.5%
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U2 - G2

Input Watts (W): 120.9
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

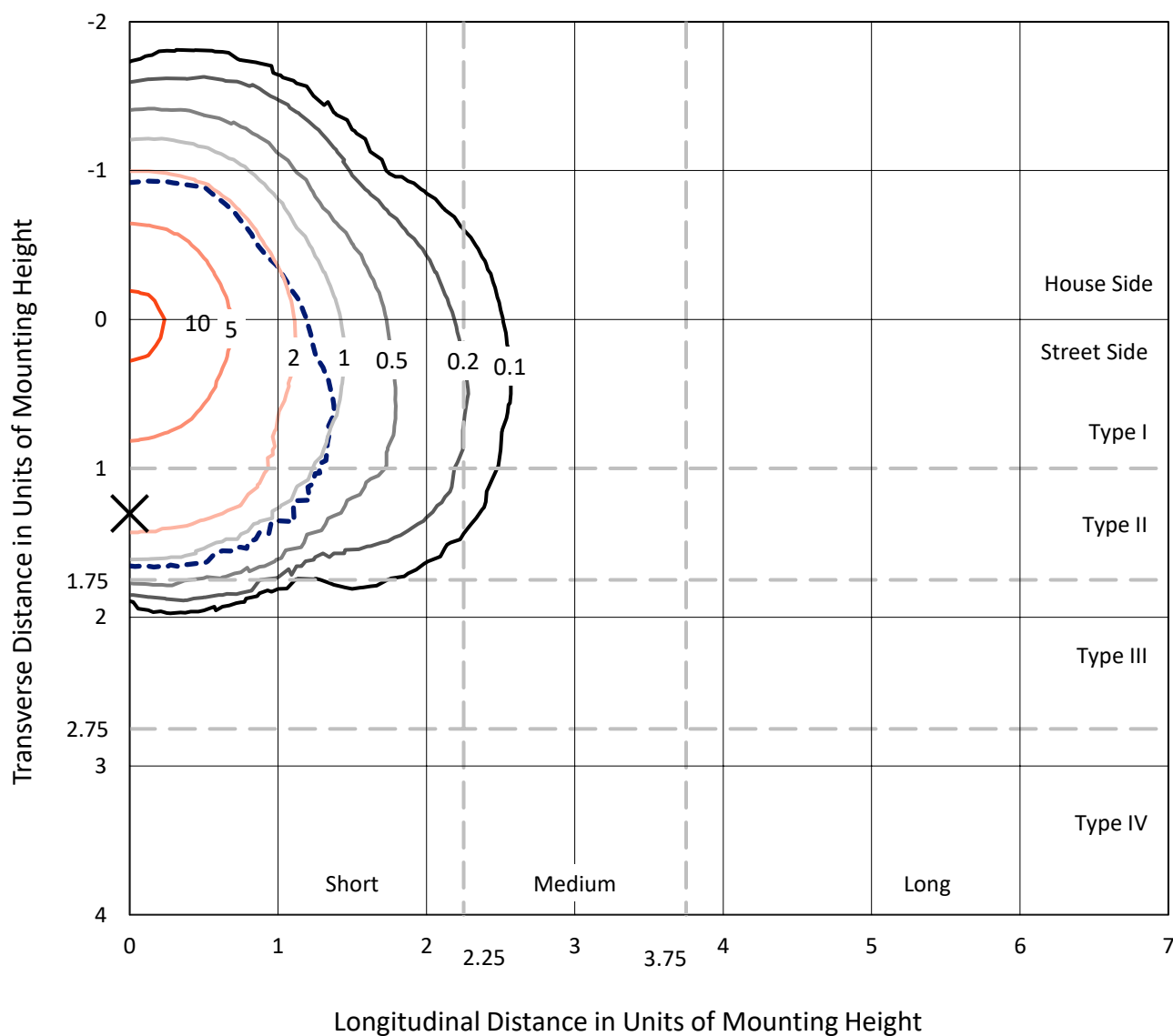
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

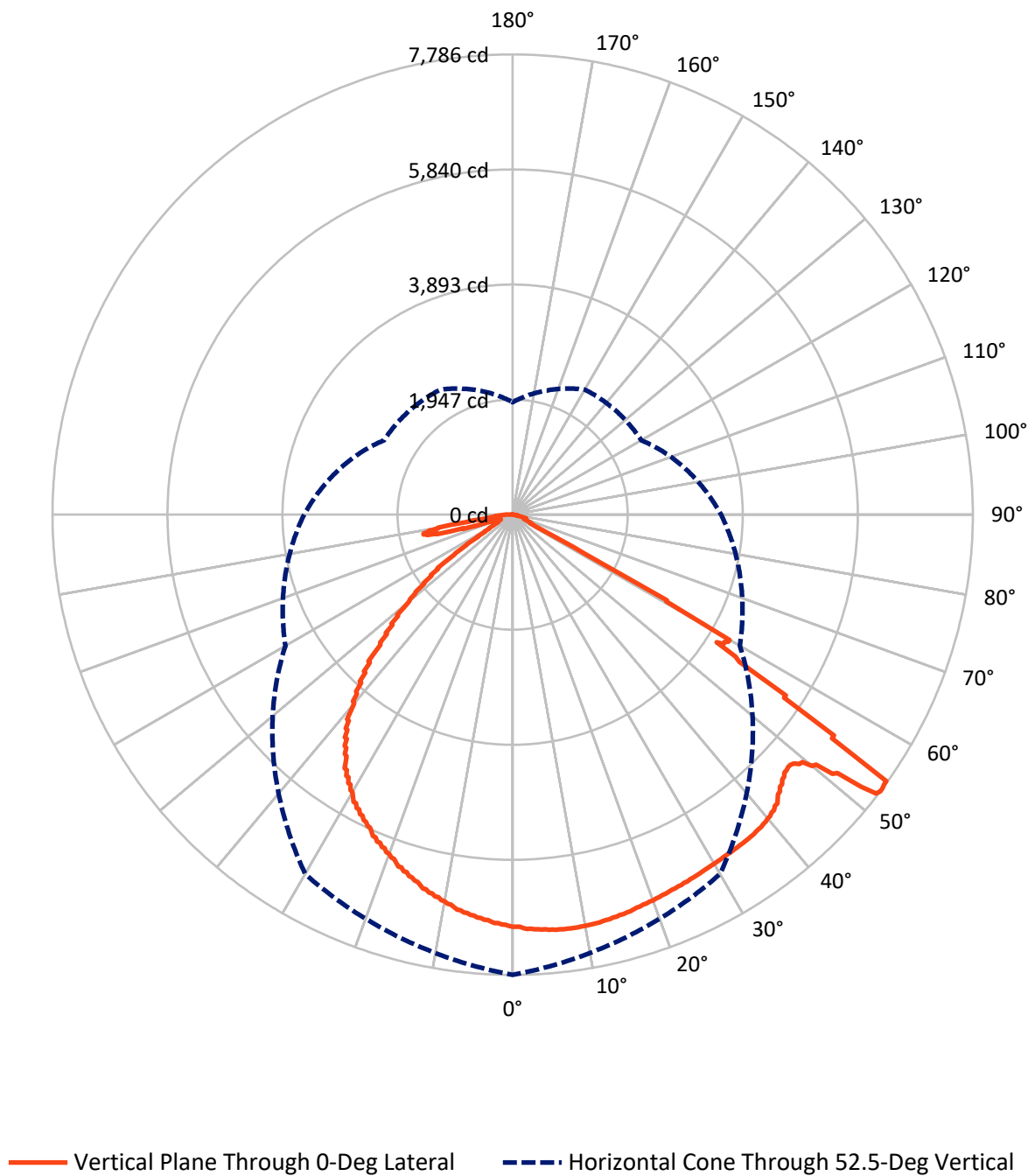


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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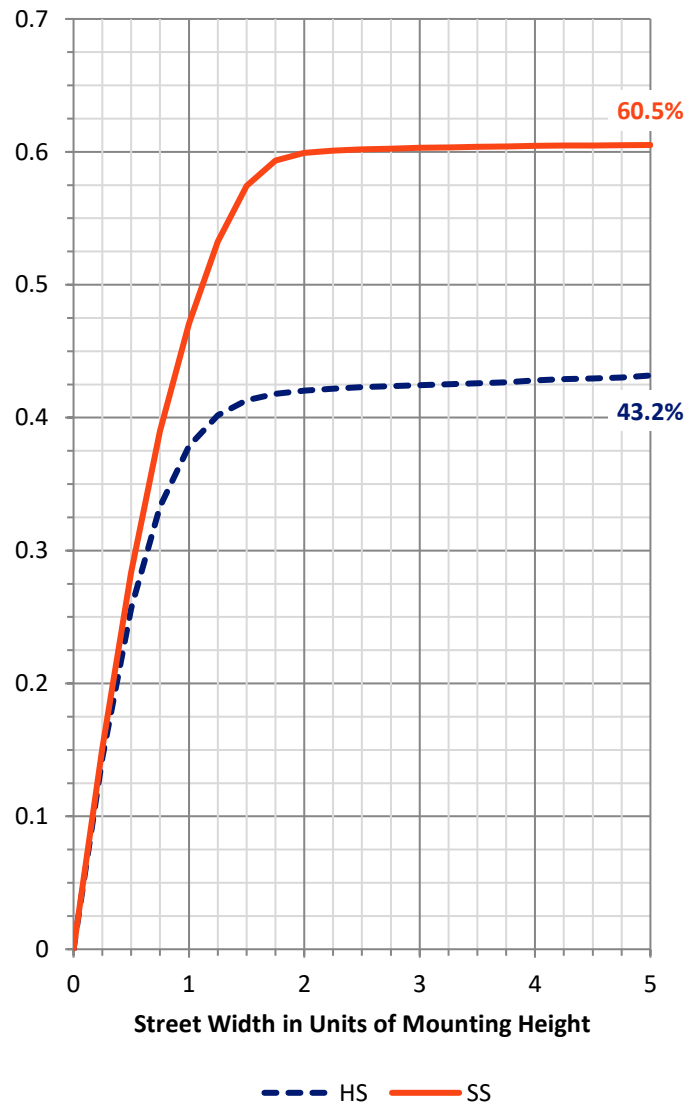
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7384.4	23.5	7407.9
	% Lamp	44.0	0.1	44.1
Street Side	Lumens	10148.4	1.7	10150.1
	% Lamp	60.4	0.0	60.4
Total	Lumens	17532.8	25.2	17557.9
	% Lamp	104.4	0.1	104.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	662.6	3.8	3.9
10°-20°	1896.2	10.8	11.3
20°-30°	2889.4	16.5	17.2
30°-40°	3535.9	20.1	21.0
40°-50°	3661.3	20.9	21.8
50°-60°	3163.7	18.0	18.8
60°-70°	1245.0	7.1	7.4
70°-80°	346.8	2.0	2.1
80°-90°	131.9	0.8	0.8
90°-100°	20.4	0.1	0.1
100°-110°	0.2	0.0	0.0
110°-120°	0.2	0.0	0.0
120°-130°	0.6	0.0	0.0
130°-140°	1.0	0.0	0.0
140°-150°	1.1	0.0	0.0
150°-160°	0.9	0.0	0.0
160°-170°	0.6	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	17532.8	99.9	104.4
0°-180°	17557.9	100.0	104.5

Coefficient of Utilization



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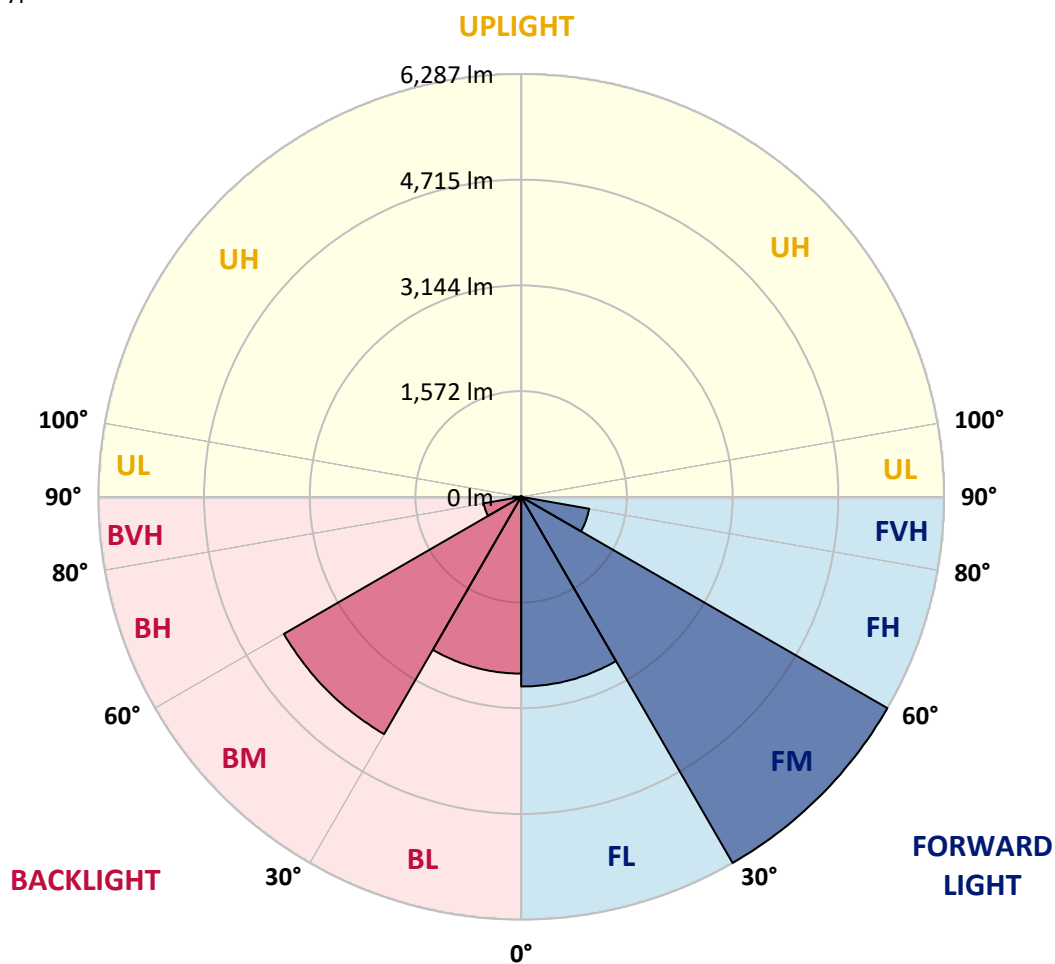
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2820.6	16.8			
FM	(30°-60°)	6287.3	37.4			
FH	(60°-80°)	1025.7	6.1			G1/1800
FVH	(80°-90°)	14.9	0.1			G1/100
BL	(0°-30°)	2627.6	15.6	B4/5000		
BM	(30°-60°)	4073.7	24.2	B3/5000		
BH	(60°-80°)	566.1	3.4	B2/1000		G2/1000
BVH	(80°-90°)	117.0	0.7			G2/225
UL	(90°-100°)	20.4	0.1		U2/50	
UH	(100°-180°)	4.8	0.0		U1/10	
Trapped Light		-757.9	-4.5			

BUG Rating: B4-U2-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	6974.2	6974.2	6974.2	6974.2	6974.2	6974.2	6974.2
0.5°	6974.2	6974.2	6974.2	6974.2	6974.2	6974.2	6974.2
1°	6997.6	7016.2	7025.1	7030.2	6981.1	7014.7	6959.6
1.5°	7013.8	7018.7	7025.1	7025.8	6980.4	7000.7	6938.1
2°	7013.8	7029.2	7026.9	7025.8	6963.7	6998.0	6938.1
2.5°	7026.3	7031.1	7022.5	7021.6	6963.1	6983.1	6916.3
3°	7026.3	7039.0	7019.4	7020.9	6945.7	6980.2	6916.3
3.5°	7038.4	7040.9	7019.4	7013.0	6944.3	6962.7	6895.0
4°	7038.4	7047.0	7014.3	7002.4	6922.6	6959.3	6872.3
4.5°	7050.5	7048.9	7014.3	7002.4	6922.6	6941.8	6869.4
5°	7050.5	7052.4	7007.9	6994.2	6903.1	6938.7	6844.0
5.5°	7061.0	7054.1	7007.9	6994.2	6903.1	6920.4	6840.9
6°	7060.4	7055.9	6996.0	6979.9	6878.3	6895.6	6812.0
6.5°	7064.8	7056.6	6996.0	6979.9	6850.3	6890.9	6812.0
7°	7067.8	7057.2	6982.0	6964.4	6848.1	6869.0	6781.3
7.5°	7067.8	7053.7	6981.4	6964.4	6826.2	6865.4	6781.3
8°	7066.8	7053.7	6965.6	6946.9	6823.7	6844.4	6750.6
8.5°	7066.8	7049.3	6948.3	6928.4	6793.1	6839.7	6750.6
9°	7065.7	7049.3	6948.3	6928.4	6793.1	6813.4	6713.0
9.5°	7065.7	7040.6	6928.5	6908.7	6761.5	6808.6	6680.7
10°	7060.5	7040.0	6928.5	6908.7	6761.5	6782.4	6676.3
10.5°	7058.9	7033.0	6905.4	6884.9	6725.7	6776.9	6639.5
11°	7055.4	7022.8	6903.8	6884.9	6725.7	6747.2	6634.6
11.5°	7053.5	7022.8	6881.1	6859.3	6689.7	6711.2	6591.8
12°	7045.7	7011.0	6879.3	6859.3	6653.9	6705.2	6591.8
12.5°	7036.5	7009.8	6853.1	6828.6	6649.5	6671.9	6549.5
13°	7036.5	6993.2	6850.3	6805.0	6610.5	6666.1	6549.5
13.5°	7026.3	6991.9	6826.7	6801.1	6610.5	6631.1	6506.1
14°	7026.3	6978.8	6799.1	6768.8	6566.5	6624.5	6506.1
14.5°	7014.1	6977.1	6799.1	6768.8	6566.5	6590.4	6460.1
15°	7011.7	6962.3	6770.4	6737.3	6521.7	6583.7	6417.2
15.5°	7000.3	6960.4	6770.4	6737.3	6521.7	6543.4	6410.5
16°	6997.9	6942.9	6738.6	6699.3	6473.3	6536.3	6367.7
16.5°	6987.4	6924.5	6735.8	6699.3	6427.8	6488.4	6360.9
17°	6972.7	6922.5	6704.3	6663.4	6422.7	6446.4	6310.2
17.5°	6972.7	6905.0	6701.4	6663.4	6376.3	6438.7	6310.2
18°	6958.7	6903.1	6670.8	6623.3	6370.5	6396.7	6259.4
18.5°	6958.7	6884.7	6635.3	6617.8	6322.4	6388.6	6259.4
19°	6944.7	6882.8	6635.3	6582.9	6316.5	6343.2	6206.3
19.5°	6944.7	6866.2	6601.1	6540.0	6260.3	6334.8	6160.0
20°	6932.2	6864.6	6601.1	6540.0	6260.3	6289.3	6152.3
20.5°	6929.5	6843.6	6560.8	6496.2	6202.5	6280.7	6105.1
21°	6919.0	6841.8	6560.8	6496.2	6202.5	6234.3	6097.3
21.5°	6916.2	6824.3	6522.9	6448.4	6141.2	6177.2	6042.1
22°	6907.5	6806.2	6520.1	6448.4	6085.2	6167.8	6042.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6897.0	6804.9	6482.5	6401.8	6078.5	6117.1	5988.1
23°	6897.0	6782.2	6478.7	6401.8	6022.5	6107.7	5988.1
23.5°	6883.6	6780.4	6440.2	6350.8	6015.0	6057.0	5930.6
24°	6883.6	6762.9	6396.2	6299.3	5948.1	6047.0	5930.6
24.5°	6871.6	6761.5	6396.2	6299.3	5948.1	5992.8	5870.8
25°	6871.6	6741.3	6352.6	6244.5	5881.4	5983.0	5820.1
25.5°	6861.1	6740.0	6352.6	6244.5	5881.4	5927.0	5810.7
26°	6858.2	6720.8	6307.4	6185.8	5809.8	5916.4	5760.0
26.5°	6849.4	6698.3	6303.9	6185.8	5809.8	5863.1	5751.1
27°	6846.8	6698.3	6261.0	6129.7	5737.8	5799.9	5687.2
27.5°	6839.8	6679.7	6258.1	6129.7	5672.2	5788.9	5687.2
28°	6831.0	6678.6	6211.7	6066.8	5663.0	5731.2	5621.5
28.5°	6831.0	6658.5	6208.4	6066.8	5593.9	5719.7	5621.5
29°	6821.2	6657.3	6159.4	6002.6	5584.5	5663.7	5553.6
29.5°	6821.2	6635.5	6106.7	5938.5	5504.3	5651.8	5553.6
30°	6813.4	6634.6	6106.7	5938.5	5504.3	5595.0	5482.8
30.5°	6811.0	6616.2	6049.4	5868.2	5383.8	5576.5	5417.2
31°	6806.7	6615.5	6049.4	5868.2	5383.8	5516.2	5407.1
31.5°	6804.5	6597.1	5993.0	5798.9	5373.7	5455.8	5325.3
32°	6800.1	6579.8	5990.2	5798.9	5373.7	5455.8	5325.3
32.5°	6797.3	6579.8	5936.0	5727.7	5216.4	5368.3	5238.7
33°	6793.8	6562.6	5933.2	5727.7	5216.4	5368.3	5238.7
33.5°	6791.9	6562.6	5876.3	5652.6	5128.4	5292.4	5147.6
34°	6789.3	6544.6	5817.4	5643.2	5128.4	5292.4	5147.6
34.5°	6787.2	6544.6	5817.4	5575.9	5040.2	5213.9	5051.0
35°	6784.6	6527.6	5755.2	5499.4	5029.1	5213.9	4957.4
35.5°	6782.0	6527.6	5755.2	5499.4	4947.7	5131.2	4945.8
36°	6773.7	6511.7	5691.5	5417.5	4935.7	5131.2	4847.0
36.5°	6773.7	6511.7	5691.5	5417.5	4857.9	5048.2	4835.2
37°	6764.6	6493.9	5626.6	5334.5	4761.7	4958.9	4717.7
37.5°	6755.9	6477.6	5624.1	5334.5	4761.7	4958.9	4717.7
38°	6755.9	6477.6	5563.7	5250.9	4665.5	4864.4	4588.8
38.5°	6737.6	6461.8	5561.5	5250.9	4665.5	4864.4	4588.8
39°	6734.8	6461.8	5497.7	5162.4	4565.0	4763.2	4452.7
39.5°	6713.0	6443.3	5431.3	5070.3	4551.4	4763.2	4452.7
40°	6709.2	6443.3	5431.3	5070.3	4462.2	4655.5	4308.6
40.5°	6678.6	6420.7	5360.2	4975.8	4448.3	4655.5	4172.2
41°	6674.5	6420.7	5360.2	4975.8	4357.3	4544.1	4156.1
41.5°	6629.5	6393.1	5285.0	4876.4	4342.6	4544.1	4012.6
42°	6629.5	6370.3	5281.2	4876.4	4249.9	4424.5	3995.2
42.5°	6574.4	6362.1	5208.6	4775.9	4138.9	4297.3	3828.8
43°	6520.2	6323.3	5203.6	4775.9	4138.9	4297.3	3828.8
43.5°	6514.0	6323.3	5127.5	4672.2	4024.0	4161.7	3655.8
44°	6455.4	6282.0	5122.2	4672.2	4024.0	4161.7	3655.8
44.5°	6449.0	6282.0	5051.4	4566.7	3902.5	4019.7	3479.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6393.9	6239.6	4976.7	4458.9	3886.4	4019.7	3479.3
45.5°	6387.3	6239.6	4976.7	4458.9	3774.4	3867.2	3296.9
46°	6339.6	6200.2	4892.6	4347.8	3758.0	3867.2	3138.5
46.5°	6339.6	6200.2	4892.6	4347.8	3640.8	3706.7	3115.0
47°	6324.1	6165.8	4803.2	4234.0	3624.2	3558.0	2936.2
47.5°	6324.1	6139.5	4798.8	4234.0	3502.6	3537.7	2936.2
48°	6355.5	6144.4	4709.6	4117.7	3359.6	3365.3	2759.5
48.5°	6429.8	6139.3	4706.6	4117.7	3359.6	3365.3	2759.5
49°	6445.5	6139.3	4620.9	4000.1	3214.7	3185.6	2586.1
49.5°	6616.1	6190.6	4544.2	3986.6	3214.7	3185.6	2586.1
50°	6651.6	6190.6	4544.2	3881.7	3057.1	3003.0	2417.7
50.5°	6964.8	6365.4	4489.5	3763.2	3039.4	3003.0	2283.0
51°	7018.9	6365.4	4489.5	3763.2	2889.0	2817.8	2256.3
51.5°	7480.8	6662.2	4457.0	3646.4	2871.4	2817.8	2124.2
52°	7748.5	6707.0	4457.0	3538.8	2687.2	2629.0	2097.2
52.5°	7786.4	7019.3	4438.4	3527.0	2514.0	2442.6	1902.1
53°	7786.4	7342.9	4492.5	3527.0	2514.0	2442.6	1902.1
53.5°	7766.5	7342.9	4419.1	3406.2	2319.2	2263.5	1719.6
54°	7766.5	7522.2	4449.1	3406.2	2319.2	2263.5	1719.6
54.5°	6595.4	7341.6	4376.5	3281.2	2123.6	2090.4	1559.2
55°	6595.4	7173.7	4348.4	3166.7	2104.5	2090.4	1559.2
55.5°	5541.0	7020.5	4274.0	3154.2	1932.2	1924.3	1394.5
56°	5541.0	6428.3	4104.1	3025.2	1912.5	1924.3	1196.8
56.5°	4572.3	6289.7	4104.1	3025.2	1754.2	1768.3	1175.1
57°	4471.3	5452.6	3892.3	2893.3	1734.2	1768.3	936.3
57.5°	4071.5	4586.3	3758.6	2893.3	1600.3	1620.9	915.4
58°	4182.0	4612.0	3696.4	2758.7	1579.6	1499.3	693.0
58.5°	4182.0	4042.6	3601.2	2758.7	1469.4	1480.8	693.0
59°	4237.9	4043.3	3550.4	2626.9	1348.1	1315.3	546.6
59.5°	4237.9	3862.3	3520.1	2626.9	1348.1	1315.3	546.6
60°	2984.5	3650.0	3490.4	2494.2	1206.0	1148.2	459.9
60.5°	2984.5	3985.9	3550.1	2368.8	1185.0	1148.2	459.9
61°	1390.5	3747.5	3550.1	2368.8	1022.3	981.9	436.6
61.5°	1158.9	3764.1	3622.0	2254.5	1001.2	981.9	375.4
62°	563.3	3664.5	3622.0	2254.5	843.8	773.6	344.9
62.5°	422.2	2593.0	3564.3	2149.7	822.8	595.2	302.0
63°	392.4	1270.7	3343.9	2149.7	726.6	579.1	302.0
63.5°	324.7	1265.7	3453.2	2045.5	653.6	467.1	279.4
64°	324.7	473.3	3320.6	2045.5	653.6	467.1	279.4
64.5°	342.3	476.6	3325.0	1923.8	601.7	417.2	272.0
65°	342.3	269.3	3146.9	1777.4	581.2	417.2	272.0
65.5°	304.5	262.9	3146.9	1777.4	557.6	387.9	266.9
66°	304.5	245.4	2866.7	1612.0	537.7	387.9	257.2
66.5°	267.5	239.1	2866.7	1612.0	521.0	358.0	252.7
67°	261.1	246.1	2520.6	1441.9	502.3	358.0	236.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	240.9	242.7	2520.6	1441.9	483.1	332.0	232.3
68°	234.9	236.6	2100.6	1261.6	447.1	315.1	215.1
68.5°	209.6	197.4	2094.7	1261.6	447.1	315.1	215.1
69°	201.8	196.6	1648.6	1076.8	417.3	303.6	218.7
69.5°	201.8	162.5	1642.9	975.3	400.3	303.6	218.7
70°	216.7	165.4	1262.4	911.7	390.7	294.1	229.6
70.5°	216.7	144.5	967.6	779.0	376.7	294.1	229.6
71°	229.7	146.8	967.6	779.0	367.9	288.2	228.9
71.5°	230.3	131.9	739.5	624.9	348.5	288.2	258.6
72°	235.5	132.8	739.5	624.9	338.8	284.0	258.2
72.5°	237.4	126.7	536.4	506.2	324.6	280.5	397.6
73°	237.4	129.3	536.8	506.2	314.1	278.7	397.6
73.5°	229.4	127.5	386.4	427.7	290.3	276.3	681.8
74°	229.4	138.0	388.1	427.7	290.3	263.1	679.6
74.5°	201.1	133.1	311.2	348.3	260.9	260.1	870.3
75°	201.1	145.3	283.5	343.3	260.9	252.2	869.0
75.5°	158.0	138.0	283.5	271.6	248.9	252.2	1087.7
76°	158.0	146.7	260.4	208.9	220.7	243.0	1321.1
76.5°	118.5	140.2	260.4	208.9	204.1	240.2	1321.1
77°	117.4	144.5	226.2	165.5	197.8	218.4	1481.9
77.5°	91.2	140.1	226.2	165.5	181.1	215.6	1481.9
78°	82.4	137.4	193.5	137.3	177.3	199.8	1544.0
78.5°	82.4	130.4	192.4	137.3	160.7	178.7	1540.9
79°	85.3	131.5	163.5	116.7	146.7	176.8	1450.8
79.5°	85.3	115.8	160.9	116.7	146.7	141.8	1444.9
80°	86.2	116.7	132.9	97.2	125.9	138.7	1288.4
80.5°	86.2	94.8	100.4	79.2	123.7	110.7	1283.7
81°	79.9	94.4	100.4	79.2	103.5	107.4	1067.6
81.5°	79.9	70.8	65.8	61.8	101.5	99.5	739.2
82°	71.6	69.9	65.8	61.8	84.0	96.6	739.2
82.5°	69.4	48.9	25.5	46.1	82.4	102.7	422.7
83°	58.9	47.1	25.5	46.1	72.8	129.1	427.4
83.5°	57.3	30.5	3.5	34.1	61.7	127.5	293.5
84°	41.5	14.8	1.3	34.1	61.7	284.0	319.7
84.5°	21.9	11.5	1.3	26.2	41.1	280.8	254.1
85°	21.9	5.4	0.3	26.2	41.1	529.2	295.7
85.5°	5.2	2.6	0.3	19.2	26.8	527.0	254.6
86°	5.2	1.8	0.1	14.0	26.0	669.6	278.4
86.5°	0.9	1.0	0.1	14.0	15.5	667.8	247.0
87°	0.9	0.1	0.0	9.6	14.7	648.6	217.5
87.5°	0.0	0.0	0.0	9.6	9.5	647.7	217.5
88°	0.0	0.0	0.0	6.1	8.9	597.0	187.1
88.5°	0.0	0.0	0.0	6.1	5.4	523.8	175.0
89°	0.0	0.0	0.0	3.5	1.5	523.2	153.1
89.5°	0.0	0.0	0.0	3.5	1.5	438.4	138.9

REPORT NUMBER: P1197111

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	0.0	0.0	0.0	1.7	0.3	438.2	118.8
90.5°	0.0	0.0	0.0	1.7	0.3	355.1	104.9
91°	0.0	0.0	0.0	0.9	0.1	355.1	85.7
91.5°	0.0	0.0	0.0	0.9	0.1	267.7	56.2
92°	0.0	0.0	0.0	0.9	0.1	267.7	56.2
92.5°	0.0	0.0	0.0	0.0	0.0	177.6	31.5
93°	0.0	0.0	0.0	0.0	0.0	177.6	31.5
93.5°	0.0	0.0	0.0	0.0	0.0	110.2	18.4
94°	0.0	0.0	0.0	0.0	0.0	24.5	4.1
94.5°	0.0	0.0	0.0	0.0	0.0	24.5	4.1
95°	0.0	0.0	0.0	0.0	0.0	3.5	0.6
95.5°	0.0	0.0	0.0	0.0	0.0	3.5	0.6
96°	0.0	0.0	0.0	0.0	0.0	2.6	0.4
96.5°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
97°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
97.5°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
98°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
98.5°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
99°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
99.5°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
100°	0.0	0.0	0.0	0.0	0.0	1.7	0.3
100.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
101°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
101.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
102°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
102.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
103°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
103.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
104°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
104.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
105°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
105.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
106°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
106.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
107°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
107.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
109.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
110°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
110.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
111°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
111.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
112°	0.0	0.0	0.0	0.0	0.0	0.9	0.1

REPORT NUMBER: P1197111

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
113°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
113.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
114°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
114.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
115°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
115.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
116°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
116.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
117°	0.0	0.0	0.0	0.0	0.0	0.9	0.1
117.5°	0.0	0.0	0.0	0.0	0.9	1.0	0.1
118°	0.0	0.0	0.0	0.0	0.9	1.0	0.1
118.5°	0.0	0.0	0.0	0.0	0.9	1.0	0.1
119°	0.0	0.0	0.0	0.0	0.9	1.0	1.0
119.5°	0.0	0.0	0.0	0.0	0.9	1.0	1.0
120°	0.0	0.0	0.0	0.0	0.9	1.0	1.0
120.5°	0.0	0.0	0.0	0.0	0.9	1.0	1.0
121°	0.0	0.0	0.0	0.0	0.9	1.0	1.0
121.5°	0.0	0.0	0.0	0.0	0.9	1.0	1.0
122°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
122.5°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
123°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
123.5°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
124°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
124.5°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
125°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
125.5°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
126°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
126.5°	0.0	0.0	0.0	0.9	1.0	1.0	1.0
127°	0.0	0.0	0.0	0.9	1.0	1.9	1.2
127.5°	0.0	0.0	0.0	0.9	1.0	1.9	1.2
128°	0.0	0.0	0.9	1.0	1.0	1.9	2.0
128.5°	0.0	0.0	0.9	1.0	1.0	1.9	2.0
129°	0.0	0.0	0.0	0.9	1.0	1.9	2.0
129.5°	0.0	0.0	0.0	0.9	1.0	1.9	2.0
130°	0.0	0.0	0.9	1.0	1.0	1.9	2.0
130.5°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
131°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
131.5°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
132°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
132.5°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
133°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
133.5°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
134°	0.0	0.9	1.0	1.0	1.0	1.9	2.0
134.5°	0.0	0.9	1.0	1.0	1.0	1.9	2.0

REPORT NUMBER: P1197111

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.9	1.0	1.0	1.9	2.0	2.0
135.5°	0.0	0.9	1.0	1.0	1.9	2.0	2.0
136°	0.0	0.9	1.0	1.0	1.9	2.0	2.0
136.5°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
137°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
137.5°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
138°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
138.5°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
139°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
139.5°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
140°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
140.5°	0.0	0.9	1.0	1.9	2.0	2.0	2.0
141°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
141.5°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
142°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
142.5°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
143°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
143.5°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
144°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
144.5°	1.0	1.0	1.0	1.9	2.0	2.0	2.0
145°	1.0	1.9	1.2	1.9	2.0	2.0	2.0
145.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
146°	1.0	1.9	2.0	2.0	2.0	2.9	2.2
146.5°	1.0	1.9	2.0	2.0	2.0	2.9	2.2
147°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
147.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
148°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
148.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
149°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
149.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
150°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
150.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
151°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
151.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
152°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
152.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
153°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
153.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
154°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
154.5°	1.0	1.9	2.0	2.0	2.0	2.0	2.0
155°	1.2	1.9	2.0	2.0	2.0	2.0	2.0
155.5°	1.2	1.9	2.0	2.0	2.0	2.9	2.2
156°	1.0	1.9	2.0	2.0	2.0	2.9	2.2
156.5°	1.0	1.9	2.0	2.0	2.0	2.9	2.2
157°	1.2	1.9	2.0	2.0	2.0	2.0	2.0

REPORT NUMBER: P1197111

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.2	1.9	2.0	2.0	2.0	2.0	2.0
158°	1.0	1.9	2.0	2.0	2.0	2.9	2.2
158.5°	1.9	2.0	2.0	2.0	2.0	2.9	2.2
159°	1.9	2.0	2.0	2.0	2.0	2.9	2.2
159.5°	1.9	2.0	2.0	2.0	2.0	2.9	2.2
160°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
160.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
161°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
161.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
162°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
162.5°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
163°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
163.5°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
164°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
164.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
165°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
165.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
166°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
166.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
167°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
167.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
168°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
168.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
169°	2.0	2.9	2.2	2.0	2.0	2.9	2.2
169.5°	2.0	2.9	2.2	2.0	2.0	2.9	2.2
170°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
170.5°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
171°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
171.5°	2.0	2.9	2.2	2.0	2.0	2.9	2.2
172°	2.0	2.9	2.2	2.9	2.2	2.9	2.2
172.5°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
173°	2.0	2.0	2.0	2.9	2.2	2.9	3.1
173.5°	2.0	2.0	2.0	2.9	2.2	2.9	3.1
174°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
174.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.2
175°	2.0	2.0	2.0	2.0	2.9	3.1	2.2
175.5°	2.0	2.0	2.0	2.9	3.1	3.1	2.2
176°	2.0	2.0	2.0	2.9	3.1	2.2	2.0
176.5°	2.9	2.2	2.0	2.0	2.0	2.0	2.9
177°	2.9	2.2	2.0	2.0	2.0	2.0	2.9
177.5°	2.9	2.2	2.0	2.0	2.0	2.0	2.0
178°	2.9	2.2	2.0	2.0	2.0	2.9	2.2
178.5°	2.0	2.0	2.0	2.9	2.2	2.9	2.2
179°	2.0	2.0	2.0	2.9	2.2	2.0	2.0
179.5°	2.0	2.0	2.0	2.9	2.2	2.0	2.0



REPORT NUMBER: P1197111
CATALOG NUMBER: AWPf150S-BZ-BZ-MID-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)