

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: P1197008

Luminaire Tested: AWPf28S-BZ-LOW-3000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197008
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: AWP28S-BZ-LOW-3000K-POSITION 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 82 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3604 (1 lamp)
Luminaire Lumens: 2721.1 lumens
Efficiency: 75.5%
Efficacy: 129.0 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: B1 - U2 - G2

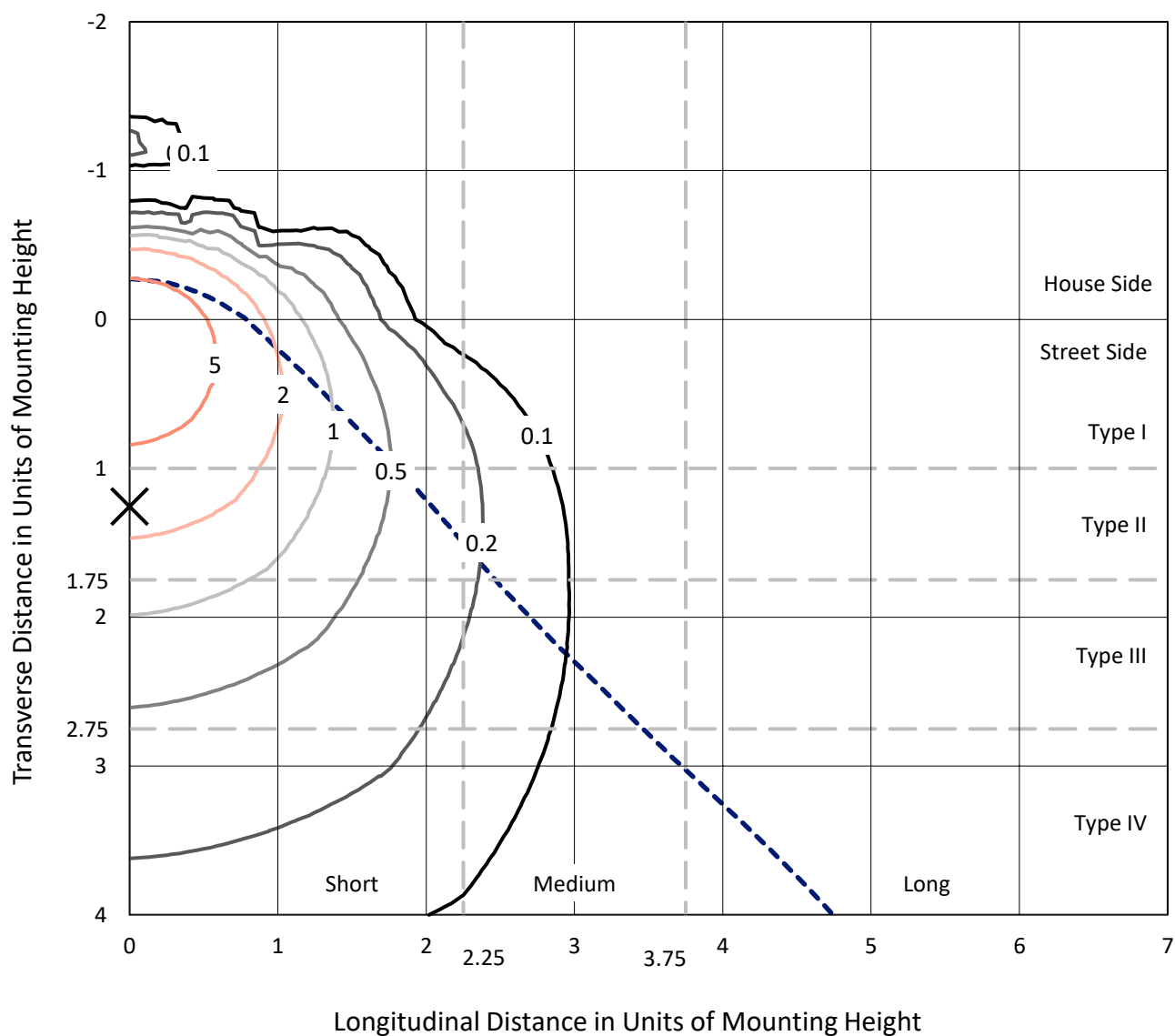
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

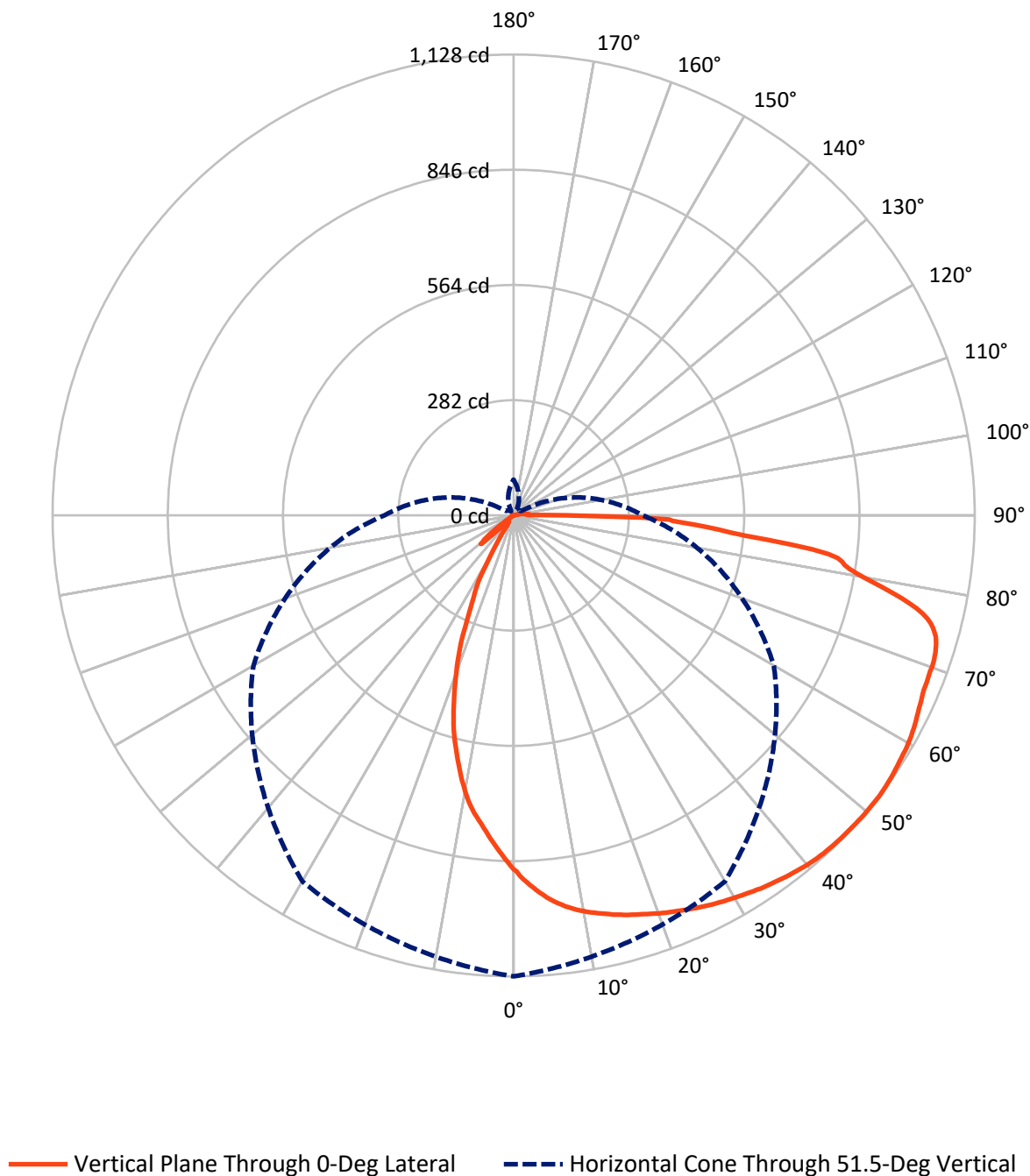


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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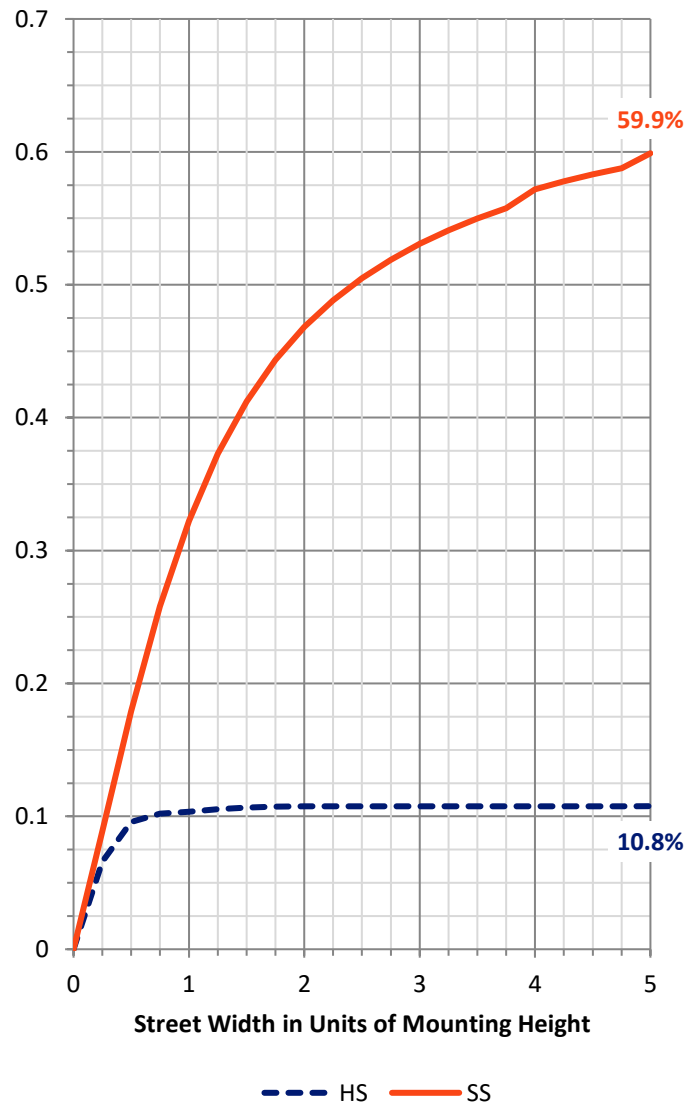
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	392.5	6.1	398.6
	% Lamp	10.9	0.2	11.1
Street Side	Lumens	2300.8	21.6	2322.5
	% Lamp	63.8	0.6	64.4
Total	Lumens	2693.4	27.7	2721.1
	% Lamp	74.7	0.8	75.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	81.9	3.0	2.3
10°-20°	228.2	8.4	6.3
20°-30°	323.7	11.9	9.0
30°-40°	362.2	13.3	10.0
40°-50°	380.2	14.0	10.5
50°-60°	387.9	14.3	10.8
60°-70°	364.2	13.4	10.1
70°-80°	341.7	12.6	9.5
80°-90°	223.3	8.2	6.2
90°-100°	19.3	0.7	0.5
100°-110°	2.5	0.1	0.1
110°-120°	1.0	0.0	0.0
120°-130°	1.1	0.0	0.0
130°-140°	1.1	0.0	0.0
140°-150°	1.0	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°	2693.4	99.0	74.7
0°-180°	2721.1	100.0	75.5

Coefficient of Utilization



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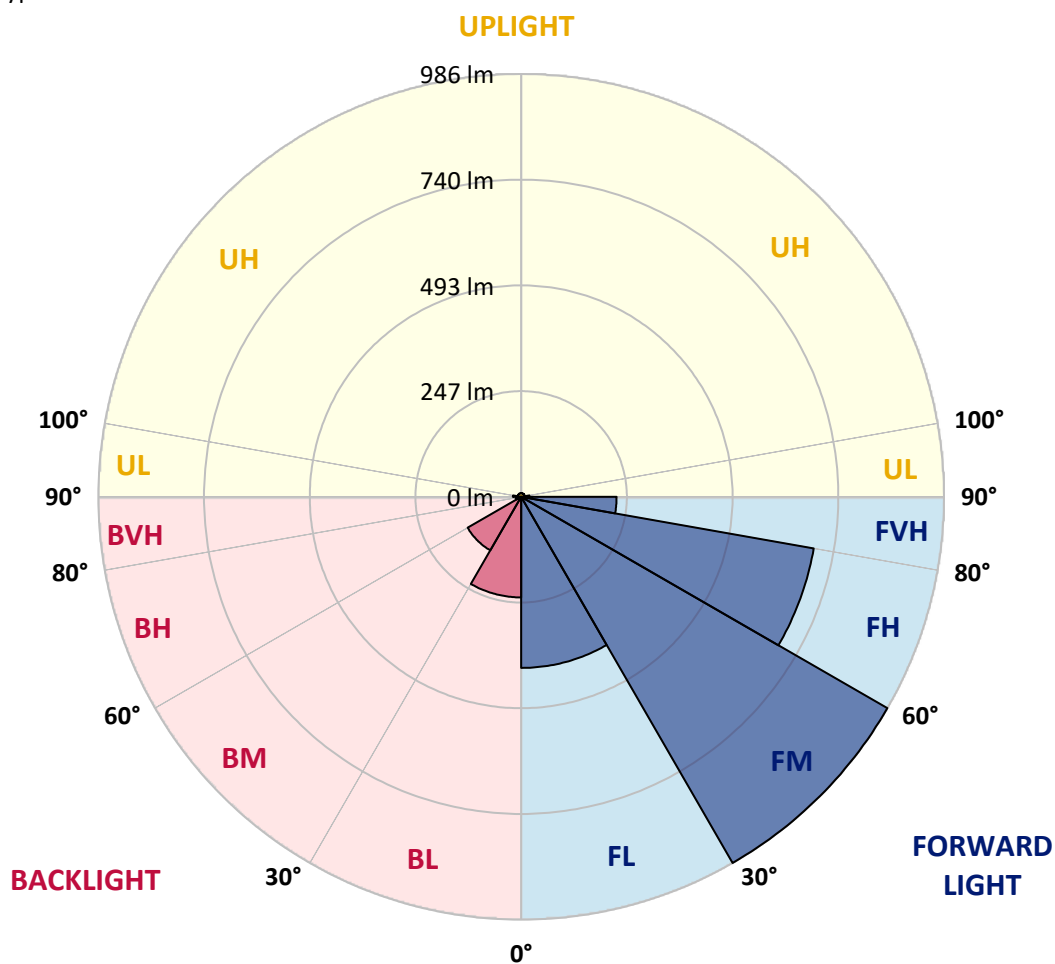
CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.1	11.1			
FM	(30°-60°)	986.3	27.4			
FH	(60°-80°)	692.9	19.2			G1/1800
FVH	(80°-90°)	222.6	6.2			G2/225
BL	(0°-30°)	234.8	6.5	B1/500		
BM	(30°-60°)	144.0	4.0	B0/220		
BH	(60°-80°)	13.0	0.4	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	19.3	0.5		U2/50	
UH	(100°-180°)	8.5	0.2		U1/10	
Trapped Light		882.9	24.5			

BUG Rating: B1-U2-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	871.2	871.2	871.2	871.2	871.2	871.2	871.2
0.5°	882.3	883.0	877.6	871.5	864.5	856.3	865.3
1°	889.8	889.3	881.6	871.3	860.3	848.7	856.5
1.5°	897.1	895.6	885.1	871.1	855.8	841.0	847.8
2°	904.6	902.0	888.5	870.8	851.2	833.0	838.9
2.5°	911.6	908.1	891.9	870.5	846.4	825.4	829.9
3°	918.5	913.9	895.2	870.1	841.7	817.4	820.8
3.5°	925.3	919.6	898.5	869.4	837.0	809.5	811.9
4°	931.8	925.2	901.7	868.9	832.1	801.7	803.1
4.5°	938.2	930.6	904.7	867.9	827.1	793.7	793.9
5°	943.9	935.8	907.3	866.9	822.0	785.8	784.8
5.5°	949.5	940.6	910.0	865.9	816.7	777.9	776.0
6°	954.7	945.3	912.7	864.8	811.4	770.0	767.2
6.5°	959.4	949.9	915.3	863.6	806.1	762.1	758.5
7°	964.2	954.2	917.9	862.4	800.7	754.2	750.2
7.5°	968.3	958.1	920.4	861.2	795.3	746.4	742.0
8°	971.9	961.9	922.9	859.9	790.0	739.1	734.3
8.5°	976.1	965.3	925.4	858.7	784.4	731.8	726.1
9°	979.6	968.3	927.6	857.2	778.6	724.7	717.1
9.5°	982.8	970.8	929.6	855.6	772.8	717.0	706.7
10°	986.0	973.8	931.5	854.1	766.9	708.3	696.2
10.5°	989.1	976.2	933.5	852.4	761.0	698.7	684.4
11°	991.8	978.4	935.3	850.5	755.2	689.1	672.3
11.5°	994.7	980.8	936.9	848.6	749.4	678.7	660.4
12°	997.6	983.1	938.5	846.4	743.4	667.3	648.4
12.5°	1000.5	985.3	939.9	844.0	737.3	656.9	635.6
13°	1003.2	987.4	941.2	841.5	731.4	646.2	622.9
13.5°	1006.2	989.3	942.1	838.8	725.3	634.5	609.9
14°	1008.5	991.3	942.8	836.2	719.4	623.0	597.4
14.5°	1011.2	993.2	943.6	833.3	713.5	611.4	584.6
15°	1014.2	995.1	944.0	830.3	707.4	599.9	572.5
15.5°	1016.6	997.1	944.2	827.1	701.0	587.9	559.9
16°	1018.7	998.7	944.4	824.0	694.3	576.6	546.5
16.5°	1020.9	1000.6	944.1	820.7	687.4	564.8	532.0
17°	1023.2	1002.4	943.7	817.5	679.7	553.3	516.7
17.5°	1025.8	1004.4	943.0	814.3	671.8	541.7	501.7
18°	1028.2	1005.9	942.4	810.8	663.8	528.8	486.7
18.5°	1030.7	1007.2	942.0	807.1	655.6	515.6	471.3
19°	1033.2	1008.6	941.3	803.4	647.2	501.9	456.4
19.5°	1036.1	1010.0	940.3	799.4	638.0	487.6	440.7
20°	1038.5	1011.5	939.3	795.4	629.1	473.2	425.3
20.5°	1040.8	1013.0	938.4	791.2	620.1	458.9	410.3
21°	1043.1	1014.5	937.4	787.3	611.0	444.1	395.6
21.5°	1045.4	1016.2	936.4	783.0	601.4	429.1	380.9
22°	1047.5	1017.9	935.2	778.2	591.8	414.9	365.6

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1049.7	1019.6	933.9	773.2	582.0	400.6	350.1
23°	1052.2	1020.8	932.2	768.0	571.5	386.7	335.3
23.5°	1054.5	1022.3	930.7	762.5	560.9	373.4	315.7
24°	1056.8	1023.7	929.0	757.3	550.2	360.1	296.4
24.5°	1059.3	1025.0	927.1	751.9	539.9	346.6	278.6
25°	1061.4	1026.2	925.3	746.5	529.7	332.4	263.3
25.5°	1063.5	1027.6	923.2	740.9	519.6	318.6	248.9
26°	1065.7	1028.7	921.0	735.7	509.6	302.3	236.3
26.5°	1068.1	1029.8	918.7	730.1	499.8	284.4	224.7
27°	1070.2	1031.1	916.1	724.4	489.5	267.8	214.0
27.5°	1072.1	1032.5	913.2	718.4	478.3	252.3	203.5
28°	1074.3	1033.2	910.3	712.6	466.1	238.7	192.9
28.5°	1076.2	1034.3	907.4	706.8	454.6	227.0	182.4
29°	1078.1	1035.3	904.4	700.9	442.0	216.9	166.5
29.5°	1080.0	1036.2	901.3	694.6	429.4	206.9	146.6
30°	1082.1	1036.7	898.1	688.1	416.9	196.8	126.2
30.5°	1084.1	1037.5	895.0	681.8	404.3	186.7	109.8
31°	1086.1	1038.4	892.2	675.5	391.7	176.0	95.8
31.5°	1088.1	1039.2	889.2	668.8	378.7	162.8	83.4
32°	1090.1	1040.0	886.2	661.9	365.9	146.0	70.1
32.5°	1092.0	1040.2	883.4	655.3	353.7	127.5	54.3
33°	1094.3	1041.0	880.5	648.5	340.9	110.4	39.7
33.5°	1096.0	1041.5	877.7	641.6	328.7	95.7	30.5
34°	1097.9	1042.0	875.0	634.3	316.8	83.5	26.7
34.5°	1099.6	1042.4	872.2	626.3	304.2	72.1	25.2
35°	1101.3	1042.9	869.5	618.5	291.5	59.8	24.4
35.5°	1103.1	1043.6	866.6	610.5	280.2	46.6	23.8
36°	1104.9	1043.9	863.8	602.2	268.5	36.0	23.3
36.5°	1106.5	1044.0	860.7	593.6	258.1	29.3	22.7
37°	1108.1	1044.2	857.5	585.1	247.3	26.5	22.0
37.5°	1109.8	1044.4	854.3	577.0	237.1	25.1	21.2
38°	1111.6	1044.8	851.4	567.8	227.0	24.2	20.4
38.5°	1113.2	1045.1	847.9	558.9	217.3	23.6	19.6
39°	1114.6	1045.4	844.2	549.7	207.2	23.1	19.0
39.5°	1116.1	1045.3	840.7	540.5	197.4	22.5	18.6
40°	1117.4	1045.3	837.9	531.1	187.7	22.0	18.4
40.5°	1118.5	1045.2	834.3	521.7	176.4	21.5	18.3
41°	1119.7	1045.0	830.7	511.9	165.8	21.2	18.2
41.5°	1120.4	1044.9	826.8	502.5	155.6	20.8	18.0
42°	1121.4	1044.3	822.6	492.7	143.4	20.6	17.8
42.5°	1121.9	1043.9	818.2	482.6	129.8	20.3	17.5
43°	1122.5	1043.4	814.6	473.0	115.0	19.9	17.1
43.5°	1123.2	1043.2	810.5	463.7	98.7	19.3	16.7
44°	1123.7	1042.8	806.5	454.0	82.1	18.6	16.3
44.5°	1124.1	1042.7	802.4	444.6	66.3	18.0	16.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1124.6	1042.3	798.3	434.9	54.1	17.3	16.1
45.5°	1124.6	1041.8	794.2	425.4	45.7	16.5	16.4
46°	1124.9	1041.6	789.9	416.1	40.5	15.8	17.4
46.5°	1125.2	1041.2	785.5	406.9	36.8	15.1	20.3
47°	1125.7	1040.7	781.0	397.8	34.2	14.6	30.9
47.5°	1126.1	1040.0	776.2	388.5	31.9	14.0	49.9
48°	1126.4	1039.5	771.5	379.4	30.2	13.4	68.1
48.5°	1126.7	1038.8	766.5	369.9	28.8	13.1	80.5
49°	1127.1	1038.2	761.3	361.1	27.5	12.9	103.1
49.5°	1127.0	1037.2	756.1	352.0	26.5	12.7	106.8
50°	1127.2	1036.1	750.9	343.3	25.5	12.5	99.7
50.5°	1127.3	1035.3	745.4	334.2	24.1	12.4	96.2
51°	1127.4	1034.3	739.9	324.9	23.1	12.2	92.7
51.5°	1127.5	1033.5	734.7	315.7	22.3	12.1	87.5
52°	1127.1	1032.7	728.7	306.9	21.6	12.2	80.8
52.5°	1126.6	1031.8	722.8	297.5	21.1	12.7	71.5
53°	1126.3	1031.1	717.2	288.3	20.6	14.3	62.5
53.5°	1125.7	1030.3	711.2	278.5	20.0	20.1	53.2
54°	1124.9	1029.4	705.2	269.0	19.3	31.3	43.8
54.5°	1124.2	1028.7	699.3	258.8	18.6	40.7	36.0
55°	1123.3	1027.9	693.5	248.5	18.0	43.8	29.9
55.5°	1122.3	1026.9	687.6	238.2	17.4	53.7	25.3
56°	1121.4	1026.0	681.5	227.3	16.9	57.6	21.5
56.5°	1120.3	1024.9	675.4	215.8	16.4	52.9	18.3
57°	1119.2	1023.6	669.2	204.3	16.0	50.0	15.3
57.5°	1118.3	1022.1	663.2	192.8	15.5	47.8	12.8
58°	1117.4	1020.0	657.3	181.3	15.1	46.3	10.9
58.5°	1116.8	1017.7	651.1	169.7	14.6	45.0	9.3
59°	1115.8	1015.6	644.7	157.9	14.2	43.3	8.2
59.5°	1114.5	1013.3	638.3	146.4	13.7	41.4	7.2
60°	1113.1	1011.1	632.1	135.3	13.3	39.4	6.5
60.5°	1111.8	1008.6	625.7	125.6	12.9	36.9	5.9
61°	1109.9	1006.0	619.7	118.4	12.5	34.2	5.4
61.5°	1108.1	1003.7	613.4	112.1	12.0	31.6	4.9
62°	1106.5	1001.3	607.5	108.4	11.5	29.0	4.5
62.5°	1104.5	998.7	601.3	106.5	11.0	26.1	4.1
63°	1102.3	996.4	594.9	101.5	10.5	23.3	3.6
63.5°	1100.3	994.2	588.4	89.4	10.0	20.6	3.1
64°	1098.2	992.0	582.2	73.3	9.5	17.8	2.6
64.5°	1096.5	989.9	576.3	61.0	8.9	15.3	2.1
65°	1094.8	988.1	570.3	55.0	8.3	13.0	1.8
65.5°	1092.9	986.2	564.1	52.4	7.8	10.7	1.7
66°	1091.5	984.1	557.8	50.7	7.3	8.0	1.7
66.5°	1090.4	981.7	551.5	49.3	7.0	4.7	1.6
67°	1089.8	979.4	544.9	47.8	6.6	2.2	1.5

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1089.3	976.9	538.0	46.6	6.3	1.3	1.3
68°	1088.7	975.0	530.9	45.4	5.9	1.1	1.0
68.5°	1088.1	972.6	524.0	44.2	5.6	1.1	0.9
69°	1087.7	970.5	516.8	43.0	5.3	1.1	0.9
69.5°	1088.0	968.7	509.0	42.0	5.0	1.1	1.0
70°	1087.8	966.5	501.7	41.2	4.6	1.0	1.0
70.5°	1087.2	963.9	494.5	40.4	4.2	0.8	0.9
71°	1085.8	961.0	487.8	39.5	3.8	0.7	0.8
71.5°	1084.6	958.9	481.0	38.6	3.4	0.6	0.7
72°	1082.6	957.7	473.4	37.7	2.8	0.6	0.7
72.5°	1080.3	957.9	466.7	36.9	2.4	0.6	0.6
73°	1077.3	958.4	459.6	35.8	2.2	0.6	0.6
73.5°	1073.5	959.9	453.0	34.9	2.0	0.6	0.6
74°	1067.6	961.4	445.7	34.3	1.7	0.6	0.6
74.5°	1061.3	963.8	438.3	33.4	1.5	0.6	0.6
75°	1053.2	966.4	432.1	31.5	1.3	0.6	0.6
75.5°	1042.4	968.8	425.9	29.4	1.2	0.5	0.6
76°	1028.3	970.1	419.8	27.0	0.9	0.5	0.6
76.5°	1011.6	969.5	413.6	24.7	0.8	0.5	0.6
77°	990.9	967.9	407.4	21.7	0.6	0.5	0.6
77.5°	968.0	966.6	402.5	19.0	0.6	0.5	0.6
78°	942.2	964.1	397.4	17.1	0.5	0.5	0.7
78.5°	917.0	963.5	393.1	15.4	0.5	0.5	0.7
79°	891.6	962.6	388.8	14.0	0.4	0.5	0.7
79.5°	867.9	961.7	384.3	12.8	0.4	0.5	0.8
80°	846.8	956.6	379.6	11.6	0.4	0.5	0.8
80.5°	830.6	948.2	375.2	10.6	0.4	0.5	0.8
81°	818.1	932.8	371.5	9.8	0.4	0.5	0.9
81.5°	811.1	906.7	369.0	8.8	0.4	0.5	0.9
82°	799.0	866.2	368.5	7.9	0.4	0.5	0.9
82.5°	775.4	813.2	370.2	7.1	0.4	0.5	0.9
83°	734.5	750.5	374.4	6.4	0.4	0.5	0.9
83.5°	681.0	678.0	381.1	5.9	0.4	0.5	1.0
84°	622.9	608.1	388.5	5.4	0.4	0.5	1.0
84.5°	570.2	556.0	392.6	4.9	0.4	0.5	1.0
85°	531.4	519.6	395.4	4.5	0.4	0.5	1.1
85.5°	502.9	486.8	397.2	4.1	0.4	0.6	1.1
86°	474.4	449.4	395.1	3.8	0.4	0.6	1.1
86.5°	445.9	434.2	387.5	3.4	0.4	0.6	1.2
87°	417.5	451.4	375.9	3.1	0.4	0.6	1.2
87.5°	389.8	471.6	359.5	2.8	0.4	0.7	1.3
88°	380.9	471.7	336.8	2.4	0.4	0.7	1.3
88.5°	314.3	422.4	308.1	2.1	0.5	0.7	1.3
89°	204.5	325.5	273.3	1.8	0.5	0.8	1.4
89.5°	128.8	217.3	234.1	1.6	0.5	0.8	1.4

REPORT NUMBER: P1197008

CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	73.5	168.7	194.6	1.2	0.5	0.8	1.5
90.5°	40.9	122.9	158.2	1.0	0.5	0.8	1.5
91°	34.6	77.2	128.2	0.9	0.6	0.9	1.5
91.5°	35.6	31.5	102.6	0.8	0.6	0.9	1.6
92°	35.8	28.0	81.7	0.7	0.6	1.0	1.6
92.5°	34.9	26.3	65.5	0.6	0.6	1.0	1.7
93°	34.7	25.3	53.7	0.6	0.7	1.0	1.7
93.5°	36.7	25.4	44.2	0.6	0.7	1.1	1.7
94°	37.5	26.6	35.6	0.5	0.7	1.1	1.8
94.5°	34.6	26.7	31.5	0.5	0.7	1.1	1.8
95°	30.5	24.9	31.6	0.5	0.8	1.2	1.8
95.5°	27.4	23.1	32.6	0.5	0.8	1.2	1.9
96°	26.8	22.2	33.9	0.5	0.8	1.2	1.9
96.5°	27.0	20.5	36.1	0.5	0.9	1.3	1.9
97°	25.5	18.4	35.8	0.5	0.9	1.3	2.0
97.5°	23.4	17.3	28.2	0.5	0.9	1.3	2.0
98°	22.6	17.1	19.8	0.5	0.9	1.4	2.0
98.5°	22.1	17.4	14.0	0.4	1.0	1.4	2.1
99°	21.4	17.6	11.7	0.4	1.0	1.4	2.1
99.5°	20.3	17.4	10.1	0.4	1.0	1.5	2.1
100°	18.5	16.8	8.6	0.4	1.1	1.5	2.1
100.5°	16.2	15.6	7.2	0.4	1.1	1.5	2.2
101°	13.7	14.0	6.2	0.4	1.1	1.6	2.2
101.5°	11.6	12.0	5.3	0.4	1.1	1.6	2.2
102°	9.8	9.6	4.2	0.4	1.2	1.6	2.3
102.5°	8.4	6.9	3.3	0.4	1.2	1.7	2.3
103°	7.6	4.7	2.7	0.5	1.2	1.7	2.3
103.5°	7.2	3.2	2.3	0.5	1.3	1.7	2.4
104°	6.4	2.1	2.0	0.5	1.3	1.8	2.4
104.5°	5.3	1.6	1.8	0.5	1.3	1.8	2.4
105°	3.9	1.3	1.5	0.5	1.3	1.8	2.4
105.5°	2.4	1.1	1.3	0.5	1.4	1.9	2.4
106°	1.3	0.9	1.1	0.5	1.4	1.9	2.5
106.5°	0.7	0.7	0.9	0.5	1.4	1.9	2.5
107°	0.5	0.5	0.8	0.5	1.4	1.9	2.5
107.5°	0.3	0.3	0.7	0.6	1.5	2.0	2.5
108°	0.2	0.2	0.5	0.6	1.5	2.0	2.6
108.5°	0.1	0.1	0.5	0.6	1.5	2.0	2.6
109°	0.0	0.0	0.4	0.6	1.5	2.1	2.6
109.5°	0.0	0.0	0.4	0.6	1.6	2.1	2.6
110°	0.0	0.0	0.3	0.6	1.6	2.1	2.6
110.5°	0.0	0.0	0.3	0.6	1.6	2.1	2.6
111°	0.0	0.0	0.2	0.7	1.6	2.1	2.7
111.5°	0.0	0.0	0.2	0.7	1.6	2.2	2.7
112°	0.0	0.0	0.1	0.7	1.7	2.2	2.7

REPORT NUMBER: P1197008

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.1	0.7	1.7	2.2	2.7
113°	0.0	0.0	0.1	0.7	1.7	2.2	2.7
113.5°	0.0	0.0	0.1	0.7	1.7	2.2	2.7
114°	0.0	0.0	0.1	0.7	1.7	2.3	2.7
114.5°	0.0	0.0	0.1	0.7	1.8	2.3	2.7
115°	0.0	0.0	0.1	0.7	1.8	2.3	2.7
115.5°	0.0	0.0	0.1	0.8	1.8	2.3	2.8
116°	0.0	0.0	0.1	0.8	1.8	2.3	2.8
116.5°	0.0	0.0	0.1	0.8	1.8	2.3	2.8
117°	0.0	0.0	0.1	0.8	1.9	2.3	2.8
117.5°	0.0	0.0	0.1	0.8	1.9	2.4	2.8
118°	0.0	0.0	0.1	0.8	1.9	2.4	2.8
118.5°	0.0	0.0	0.2	0.8	1.9	2.4	2.8
119°	0.0	0.0	0.2	0.9	1.9	2.4	2.8
119.5°	0.0	0.0	0.2	0.9	1.9	2.4	2.8
120°	0.0	0.0	0.2	0.9	2.0	2.4	2.8
120.5°	0.0	0.0	0.2	0.9	2.0	2.5	2.8
121°	0.0	0.0	0.2	0.9	2.0	2.5	2.8
121.5°	0.0	0.0	0.2	0.9	2.0	2.5	2.8
122°	0.0	0.0	0.2	1.0	2.0	2.5	2.8
122.5°	0.0	0.0	0.3	1.0	2.0	2.5	2.9
123°	0.0	0.0	0.3	1.0	2.0	2.5	2.9
123.5°	0.0	0.0	0.3	1.0	2.1	2.5	2.9
124°	0.0	0.0	0.3	1.0	2.1	2.6	2.9
124.5°	0.0	0.0	0.3	1.0	2.1	2.6	2.9
125°	0.0	0.0	0.3	1.1	2.1	2.6	2.9
125.5°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
126°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
126.5°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
127°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
127.5°	0.0	0.0	0.4	1.1	2.2	2.6	2.9
128°	0.0	0.0	0.5	1.1	2.2	2.7	2.9
128.5°	0.0	0.0	0.5	1.2	2.2	2.7	2.9
129°	0.0	0.0	0.5	1.2	2.2	2.7	2.9
129.5°	0.0	0.0	0.5	1.2	2.2	2.7	2.9
130°	0.0	0.0	0.5	1.2	2.2	2.7	2.9
130.5°	0.0	0.0	0.5	1.2	2.2	2.7	2.9
131°	0.0	0.0	0.6	1.2	2.2	2.7	2.9
131.5°	0.0	0.0	0.6	1.3	2.2	2.7	2.9
132°	0.0	0.0	0.6	1.3	2.2	2.7	2.9
132.5°	0.0	0.0	0.6	1.3	2.2	2.7	2.9
133°	0.0	0.1	0.6	1.3	2.2	2.7	3.0
133.5°	0.0	0.1	0.6	1.3	2.2	2.7	3.0
134°	0.0	0.1	0.7	1.3	2.2	2.7	3.0
134.5°	0.0	0.1	0.7	1.3	2.2	2.7	3.0

REPORT NUMBER: P1197008

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.1	0.7	1.4	2.2	2.7	3.0
135.5°	0.0	0.1	0.7	1.4	2.3	2.7	3.0
136°	0.0	0.1	0.7	1.4	2.3	2.7	3.0
136.5°	0.1	0.2	0.8	1.4	2.3	2.7	3.0
137°	0.1	0.2	0.8	1.4	2.3	2.7	3.0
137.5°	0.1	0.2	0.8	1.4	2.3	2.7	3.0
138°	0.1	0.2	0.8	1.5	2.3	2.7	3.0
138.5°	0.1	0.2	0.8	1.5	2.3	2.8	3.0
139°	0.1	0.2	0.8	1.5	2.3	2.8	3.0
139.5°	0.1	0.2	0.9	1.5	2.3	2.8	3.0
140°	0.1	0.3	0.9	1.5	2.3	2.8	3.0
140.5°	0.2	0.3	0.9	1.5	2.3	2.8	3.0
141°	0.2	0.3	0.9	1.6	2.3	2.8	3.0
141.5°	0.2	0.3	0.9	1.6	2.3	2.8	3.0
142°	0.2	0.3	1.0	1.6	2.3	2.8	2.9
142.5°	0.2	0.3	1.0	1.6	2.3	2.8	2.9
143°	0.2	0.4	1.0	1.6	2.4	2.8	2.9
143.5°	0.2	0.4	1.0	1.6	2.4	2.8	2.9
144°	0.3	0.4	1.0	1.6	2.4	2.8	2.9
144.5°	0.3	0.4	1.0	1.6	2.4	2.8	2.9
145°	0.3	0.4	1.1	1.6	2.4	2.8	2.9
145.5°	0.3	0.5	1.1	1.7	2.4	2.8	2.9
146°	0.3	0.5	1.1	1.7	2.4	2.8	2.9
146.5°	0.3	0.5	1.1	1.7	2.4	2.8	2.9
147°	0.3	0.5	1.1	1.7	2.4	2.8	2.9
147.5°	0.4	0.6	1.2	1.7	2.4	2.8	2.9
148°	0.4	0.6	1.2	1.7	2.4	2.8	2.9
148.5°	0.4	0.6	1.2	1.7	2.4	2.8	2.9
149°	0.4	0.6	1.2	1.8	2.4	2.8	2.8
149.5°	0.4	0.7	1.2	1.8	2.4	2.8	2.8
150°	0.5	0.7	1.3	1.8	2.4	2.8	2.8
150.5°	0.5	0.7	1.3	1.8	2.5	2.8	2.8
151°	0.5	0.7	1.3	1.8	2.5	2.8	2.8
151.5°	0.5	0.7	1.3	1.8	2.5	2.8	2.8
152°	0.5	0.8	1.3	1.9	2.5	2.8	2.8
152.5°	0.6	0.8	1.3	1.9	2.5	2.8	2.8
153°	0.6	0.8	1.4	1.9	2.5	2.8	2.8
153.5°	0.6	0.8	1.4	1.9	2.5	2.8	2.8
154°	0.6	0.9	1.4	1.9	2.5	2.8	2.8
154.5°	0.6	0.9	1.4	1.9	2.5	2.8	2.8
155°	0.7	0.9	1.4	1.9	2.5	2.8	2.7
155.5°	0.7	0.9	1.5	2.0	2.5	2.8	2.7
156°	0.7	1.0	1.5	2.0	2.5	2.8	2.7
156.5°	0.7	1.0	1.5	2.0	2.5	2.8	2.7
157°	0.8	1.0	1.5	2.0	2.5	2.8	2.7

REPORT NUMBER: P1197008

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.8	1.0	1.5	2.0	2.5	2.8	2.7
158°	0.8	1.1	1.5	2.0	2.5	2.8	2.7
158.5°	0.8	1.1	1.6	2.0	2.5	2.8	2.7
159°	0.8	1.1	1.6	2.0	2.5	2.7	2.7
159.5°	0.9	1.1	1.6	2.0	2.5	2.7	2.7
160°	0.9	1.1	1.6	2.0	2.5	2.7	2.7
160.5°	0.9	1.1	1.6	2.0	2.5	2.7	2.7
161°	0.9	1.2	1.7	2.1	2.5	2.7	2.6
161.5°	0.9	1.2	1.7	2.1	2.5	2.7	2.6
162°	1.0	1.2	1.7	2.1	2.5	2.7	2.6
162.5°	1.0	1.2	1.7	2.1	2.5	2.7	2.6
163°	1.0	1.3	1.7	2.1	2.5	2.7	2.6
163.5°	1.0	1.3	1.7	2.1	2.5	2.7	2.6
164°	1.1	1.3	1.8	2.1	2.5	2.7	2.6
164.5°	1.1	1.3	1.8	2.1	2.5	2.7	2.5
165°	1.1	1.3	1.8	2.1	2.5	2.7	2.5
165.5°	1.1	1.4	1.8	2.1	2.5	2.7	2.5
166°	1.2	1.4	1.8	2.2	2.5	2.7	2.5
166.5°	1.2	1.4	1.9	2.2	2.5	2.6	2.5
167°	1.2	1.4	1.9	2.2	2.5	2.6	2.5
167.5°	1.2	1.5	1.9	2.2	2.5	2.6	2.5
168°	1.3	1.5	1.9	2.2	2.5	2.6	2.5
168.5°	1.3	1.5	1.9	2.2	2.5	2.6	2.4
169°	1.3	1.5	1.9	2.2	2.5	2.6	2.4
169.5°	1.4	1.6	2.0	2.2	2.5	2.6	2.4
170°	1.4	1.6	2.0	2.2	2.4	2.6	2.4
170.5°	1.4	1.6	2.0	2.2	2.5	2.6	2.4
171°	1.4	1.6	2.0	2.2	2.4	2.6	2.3
171.5°	1.5	1.6	2.0	2.2	2.4	2.6	2.3
172°	1.5	1.7	2.1	2.2	2.4	2.5	2.3
172.5°	1.5	1.7	2.1	2.2	2.4	2.5	2.3
173°	1.5	1.7	2.1	2.3	2.4	2.5	2.3
173.5°	1.6	1.7	2.1	2.3	2.4	2.5	2.2
174°	1.6	1.8	2.1	2.3	2.4	2.5	2.2
174.5°	1.6	1.8	2.1	2.3	2.4	2.5	2.2
175°	1.7	1.8	2.1	2.3	2.4	2.5	2.2
175.5°	1.7	1.9	2.2	2.3	2.4	2.5	2.2
176°	1.7	1.9	2.2	2.3	2.4	2.4	2.1
176.5°	1.7	1.9	2.2	2.3	2.4	2.4	2.1
177°	1.8	1.9	2.2	2.3	2.4	2.4	2.1
177.5°	1.8	2.0	2.2	2.3	2.4	2.4	2.1
178°	1.8	2.0	2.2	2.3	2.4	2.4	2.0
178.5°	1.9	2.0	2.2	2.3	2.4	2.4	2.0
179°	1.9	2.0	2.2	2.3	2.3	2.4	2.0
179.5°	1.9	2.0	2.2	2.3	2.3	2.3	2.0



REPORT NUMBER: P1197008
CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)