

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: P1197014

Luminaire Tested: AWPf28S-BZ-LOW-5000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197014
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-5000K-POSITION 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 88 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3604 (1 lamp)
Luminaire Lumens: 2866.3 lumens
Efficiency: 79.5%
Efficacy: 136.5 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 - G3

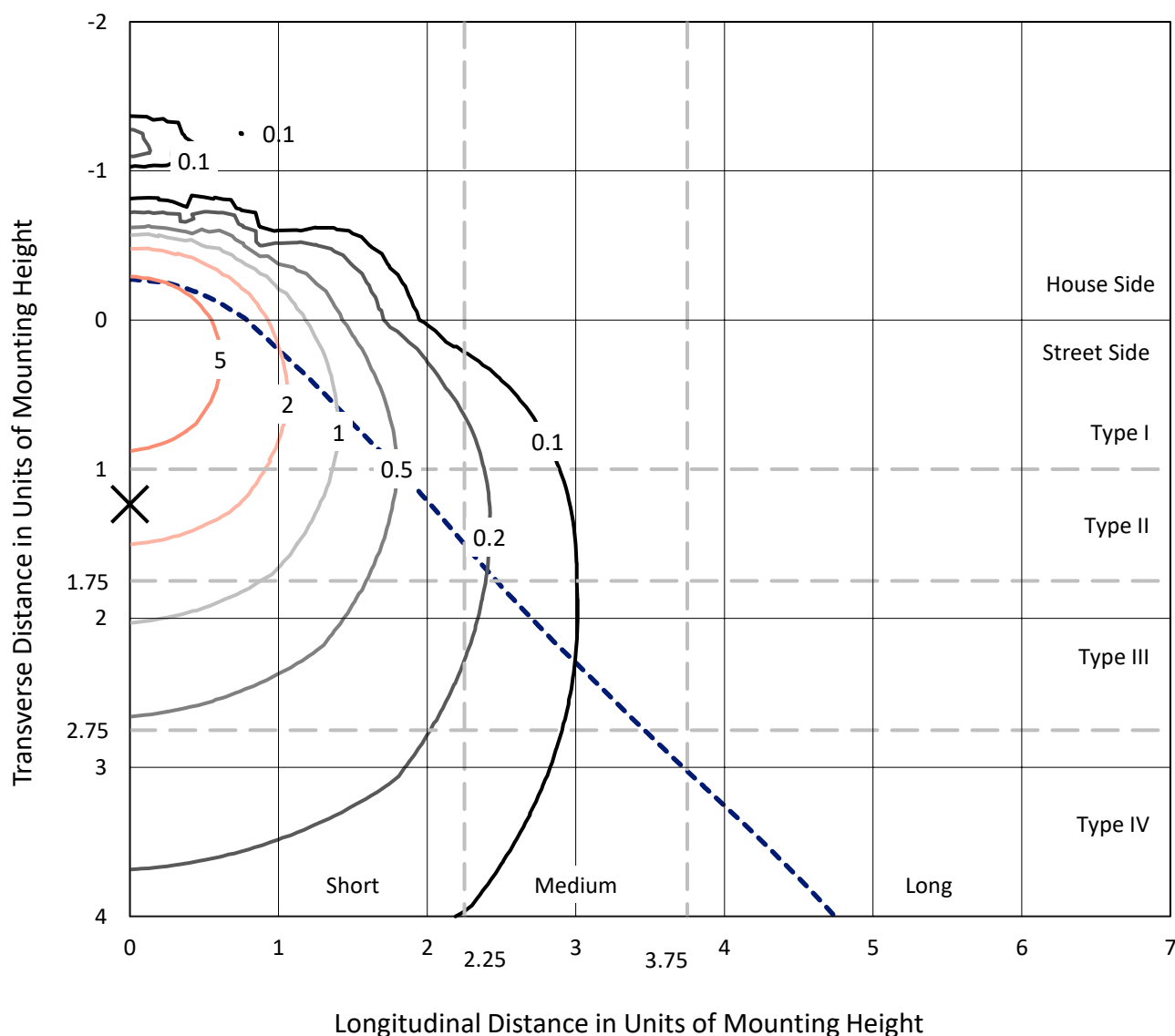
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

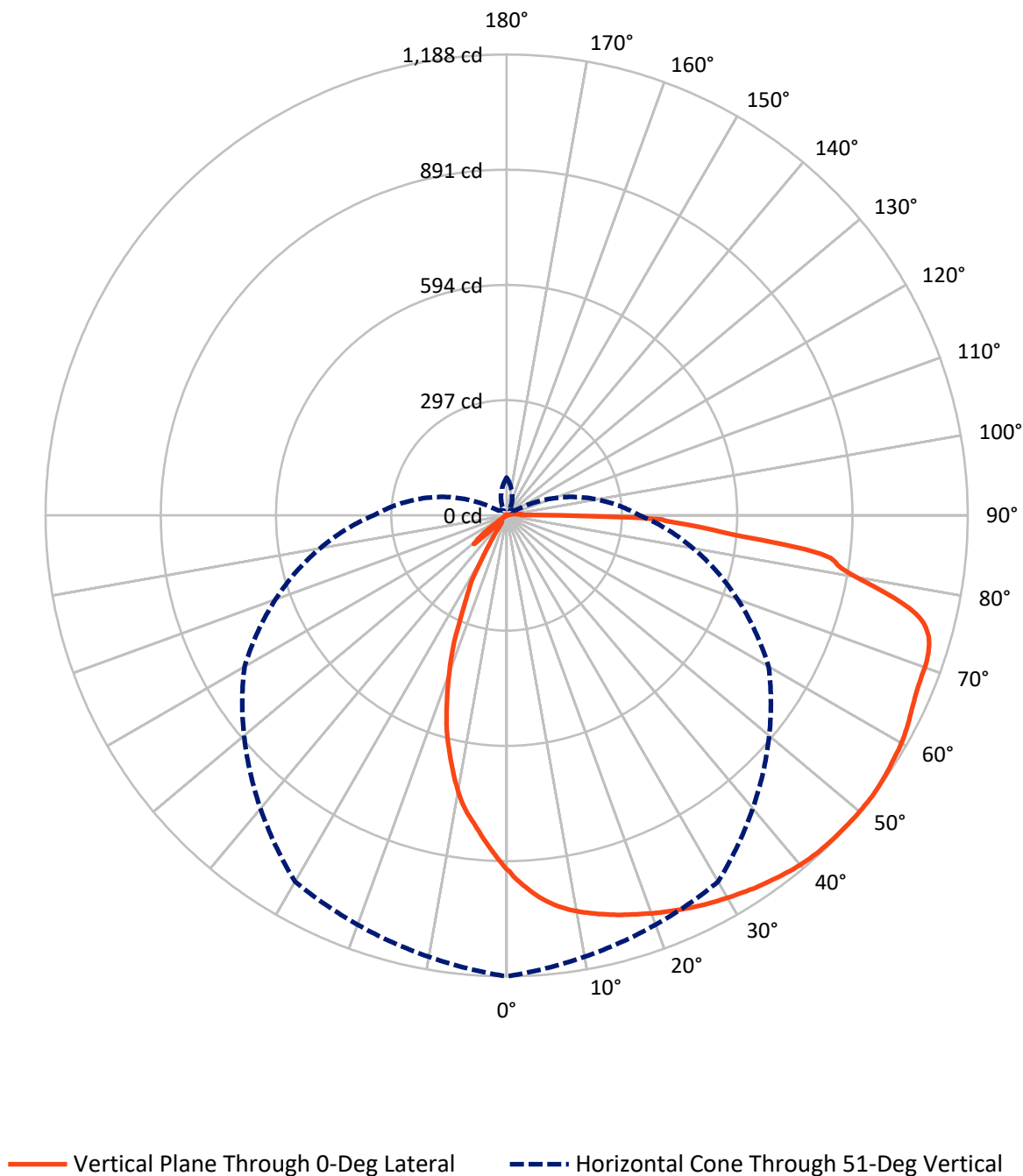


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P1197014

CATALOG NUMBER: AWPf28S-BZ-LOW-5000K-POSITION 15

Luminous Intensity Polar Plot



REPORT NUMBER: P1197014

CATALOG NUMBER: AWPf28S-BZ-LOW-5000K-POSITION 15

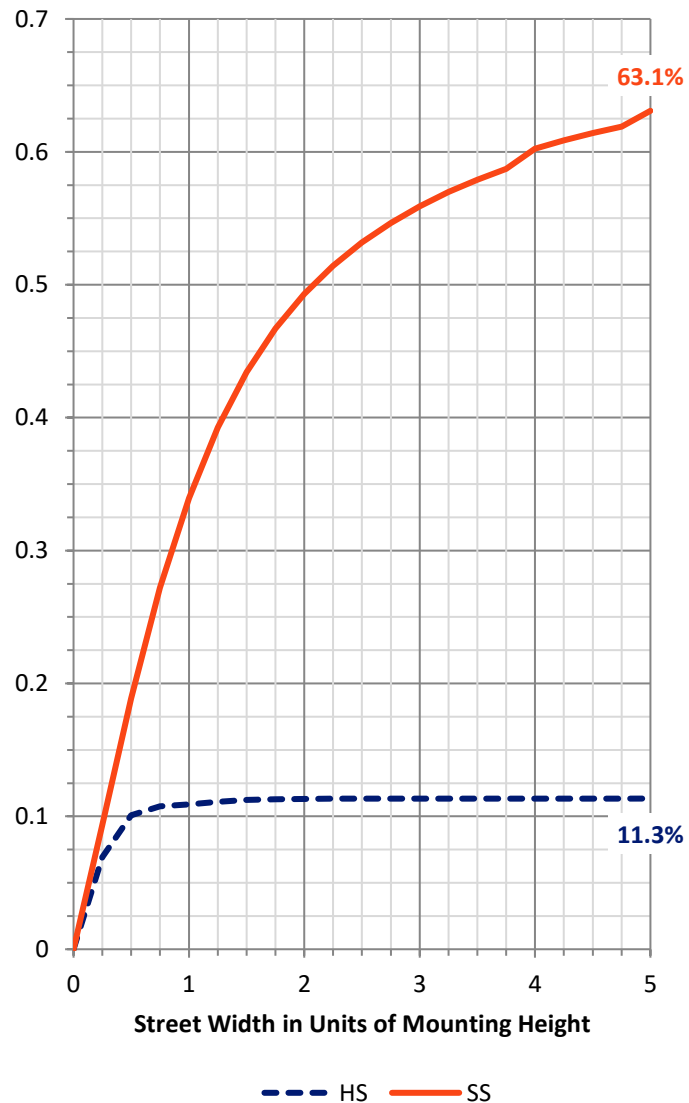
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.5	6.4	419.9
	% Lamp	11.5	0.2	11.7
Street Side	Lumens	2423.6	22.8	2446.4
	% Lamp	67.2	0.6	67.9
Total	Lumens	2837.1	29.2	2866.3
	% Lamp	78.7	0.8	79.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	86.3	3.0	2.4
10°-20°	240.3	8.4	6.7
20°-30°	341.0	11.9	9.5
30°-40°	381.5	13.3	10.6
40°-50°	400.5	14.0	11.1
50°-60°	408.7	14.3	11.3
60°-70°	383.6	13.4	10.6
70°-80°	360.0	12.6	10.0
80°-90°	235.2	8.2	6.5
90°-100°	20.3	0.7	0.6
100°-110°	2.6	0.1	0.1
110°-120°	1.1	0.0	0.0
120°-130°	1.2	0.0	0.0
130°-140°	1.2	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°	2837.1	99.0	78.7
0°-180°	2866.3	100.0	79.5

Coefficient of Utilization



REPORT NUMBER: P1197014

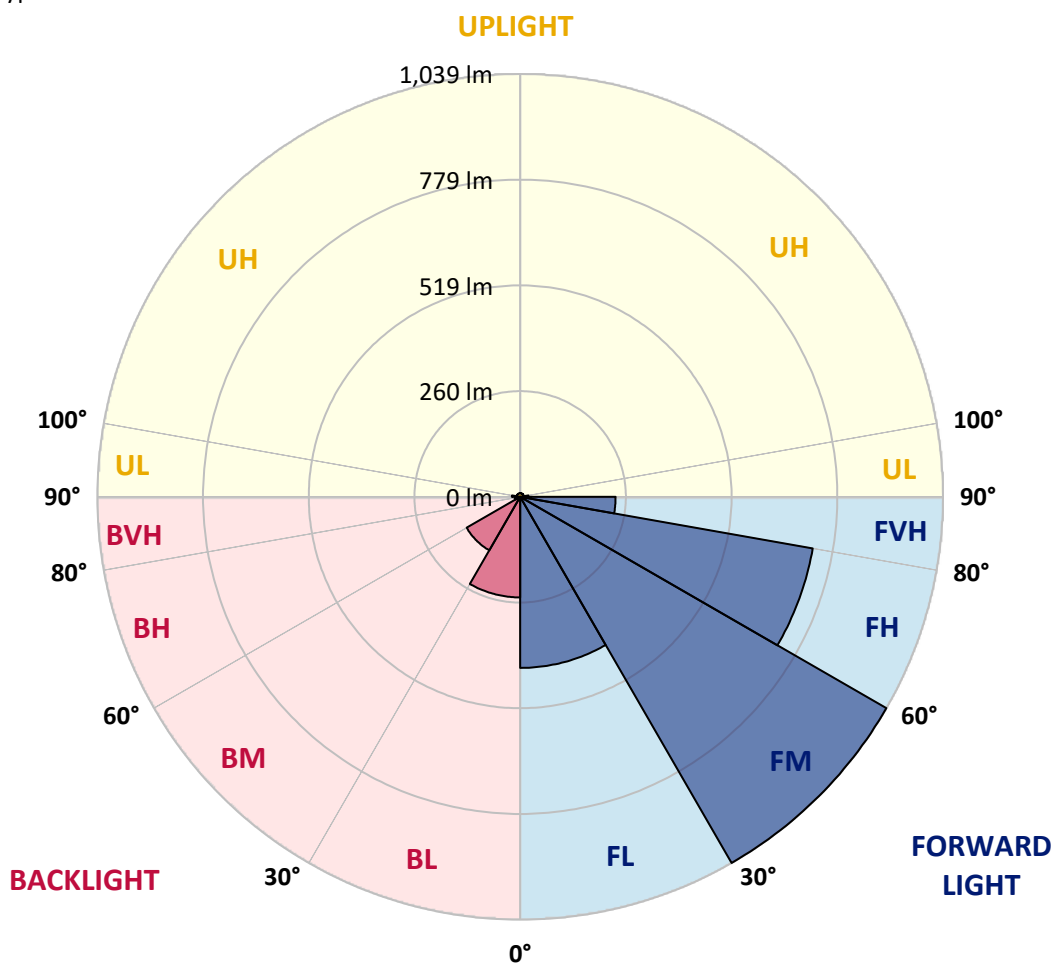
CATALOG NUMBER: AWPf28S-BZ-LOW-5000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.3	11.7			
FM	(30°-60°)	1038.9	28.8			
FH	(60°-80°)	729.9	20.3			G1/1800
FVH	(80°-90°)	234.5	6.5			G3/500
BL	(0°-30°)	247.3	6.9	B1/500		
BM	(30°-60°)	151.7	4.2	B0/220		
BH	(60°-80°)	13.7	0.4	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	20.3	0.6		U2/50	
UH	(100°-180°)	8.9	0.2		U1/10	
Trapped Light		737.7	20.5			

BUG Rating: B1-U2-G3

Type IV Short



REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	917.7	917.7	917.7	917.7	917.7	917.7	917.7
0.5°	929.3	930.1	924.4	918.0	910.7	902.0	911.5
1°	937.3	936.7	928.6	917.8	906.1	894.0	902.2
1.5°	945.0	943.4	932.4	917.5	901.5	885.8	893.1
2°	952.9	950.1	935.9	917.3	896.6	877.5	883.6
2.5°	960.2	956.6	939.5	917.0	891.6	869.5	874.2
3°	967.6	962.6	943.0	916.5	886.6	861.0	864.6
3.5°	974.6	968.7	946.4	915.8	881.7	852.7	855.2
4°	981.5	974.5	949.8	915.2	876.4	844.5	846.0
4.5°	988.2	980.3	952.9	914.2	871.2	836.1	836.3
5°	994.2	985.7	955.7	913.2	865.8	827.7	826.7
5.5°	1000.1	990.8	958.6	912.1	860.3	819.4	817.4
6°	1005.6	995.7	961.4	911.0	854.7	811.1	808.2
6.5°	1010.6	1000.5	964.2	909.7	849.1	802.7	798.9
7°	1015.7	1005.1	966.9	908.4	843.4	794.4	790.2
7.5°	1020.0	1009.2	969.5	907.1	837.7	786.2	781.6
8°	1023.8	1013.2	972.1	905.8	832.1	778.5	773.5
8.5°	1028.2	1016.7	974.7	904.5	826.3	770.8	764.8
9°	1031.8	1019.9	977.0	902.9	820.2	763.3	755.4
9.5°	1035.2	1022.6	979.2	901.2	814.1	755.2	744.4
10°	1038.6	1025.7	981.2	899.6	807.8	746.1	733.3
10.5°	1041.9	1028.3	983.3	897.9	801.6	736.0	720.9
11°	1044.8	1030.6	985.2	895.9	795.4	725.9	708.2
11.5°	1047.8	1033.1	986.8	893.9	789.3	715.0	695.7
12°	1050.8	1035.6	988.6	891.6	783.1	702.9	683.0
12.5°	1053.9	1037.8	990.1	889.0	776.6	692.0	669.5
13°	1056.7	1040.0	991.4	886.4	770.4	680.7	656.1
13.5°	1059.8	1042.1	992.3	883.6	764.0	668.3	642.4
14°	1062.3	1044.2	993.0	880.8	757.7	656.2	629.3
14.5°	1065.2	1046.2	993.9	877.7	751.6	644.0	615.8
15°	1068.3	1048.2	994.3	874.6	745.1	631.9	603.0
15.5°	1070.9	1050.3	994.6	871.2	738.4	619.3	589.7
16°	1073.1	1052.0	994.7	868.0	731.3	607.4	575.6
16.5°	1075.4	1054.0	994.5	864.5	724.0	594.9	560.4
17°	1077.8	1055.9	994.0	861.1	716.0	582.8	544.3
17.5°	1080.6	1057.9	993.3	857.8	707.6	570.6	528.4
18°	1083.1	1059.6	992.7	854.1	699.2	557.0	512.7
18.5°	1085.6	1060.9	992.2	850.2	690.6	543.1	496.5
19°	1088.3	1062.4	991.5	846.2	681.7	528.6	480.8
19.5°	1091.3	1063.9	990.4	842.0	672.1	513.6	464.3
20°	1093.9	1065.4	989.4	837.8	662.6	498.5	448.0
20.5°	1096.3	1067.0	988.4	833.4	653.2	483.3	432.2
21°	1098.7	1068.6	987.4	829.3	643.5	467.8	416.7
21.5°	1101.2	1070.4	986.3	824.8	633.5	452.0	401.2
22°	1103.4	1072.2	985.1	819.7	623.4	437.0	385.1

REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1105.7	1073.9	983.7	814.4	613.0	422.0	368.8
23°	1108.3	1075.2	982.0	809.0	602.0	407.4	353.2
23.5°	1110.8	1076.8	980.4	803.2	590.8	393.3	332.5
24°	1113.2	1078.3	978.5	797.7	579.5	379.3	312.3
24.5°	1115.9	1079.7	976.6	792.0	568.7	365.1	293.5
25°	1118.0	1081.0	974.6	786.3	557.9	350.2	277.3
25.5°	1120.2	1082.5	972.5	780.4	547.3	335.6	262.2
26°	1122.6	1083.6	970.1	775.0	536.8	318.5	248.9
26.5°	1125.1	1084.8	967.8	769.1	526.5	299.6	236.6
27°	1127.3	1086.1	965.0	763.0	515.6	282.1	225.5
27.5°	1129.3	1087.6	961.9	756.7	503.8	265.8	214.3
28°	1131.6	1088.4	958.8	750.6	491.0	251.4	203.2
28.5°	1133.6	1089.5	955.8	744.5	478.8	239.1	192.1
29°	1135.6	1090.5	952.7	738.3	465.6	228.5	175.4
29.5°	1137.7	1091.5	949.4	731.7	452.3	217.9	154.4
30°	1139.9	1092.0	946.0	724.9	439.1	207.3	133.0
30.5°	1141.9	1092.8	942.8	718.2	425.9	196.7	115.7
31°	1144.0	1093.8	939.8	711.5	412.6	185.4	100.9
31.5°	1146.1	1094.6	936.7	704.4	399.0	171.5	87.8
32°	1148.3	1095.5	933.4	697.3	385.5	153.8	73.8
32.5°	1150.3	1095.7	930.5	690.3	372.5	134.3	57.2
33°	1152.7	1096.5	927.5	683.1	359.1	116.2	41.8
33.5°	1154.5	1097.1	924.6	675.8	346.3	100.8	32.1
34°	1156.4	1097.6	921.6	668.1	333.7	88.0	28.1
34.5°	1158.3	1098.0	918.7	659.7	320.5	76.0	26.6
35°	1160.1	1098.5	915.9	651.5	307.1	63.0	25.7
35.5°	1162.0	1099.2	912.9	643.0	295.1	49.1	25.1
36°	1163.9	1099.6	909.9	634.3	282.8	37.9	24.5
36.5°	1165.5	1099.7	906.6	625.3	271.9	30.9	23.9
37°	1167.2	1099.9	903.3	616.3	260.5	27.9	23.2
37.5°	1169.0	1100.1	899.9	607.8	249.8	26.4	22.4
38°	1170.9	1100.5	896.8	598.1	239.1	25.5	21.5
38.5°	1172.6	1100.9	893.1	588.8	228.9	24.8	20.7
39°	1174.0	1101.2	889.3	579.0	218.3	24.3	20.0
39.5°	1175.7	1101.1	885.5	569.3	207.9	23.7	19.6
40°	1177.0	1101.0	882.6	559.4	197.7	23.2	19.4
40.5°	1178.2	1101.0	878.8	549.6	185.8	22.7	19.3
41°	1179.4	1100.8	875.0	539.2	174.6	22.3	19.2
41.5°	1180.2	1100.6	870.9	529.3	163.9	21.9	19.0
42°	1181.2	1100.0	866.5	519.0	151.0	21.7	18.8
42.5°	1181.8	1099.5	861.9	508.3	136.7	21.4	18.4
43°	1182.4	1099.1	858.0	498.3	121.1	21.0	18.0
43.5°	1183.1	1098.8	853.7	488.4	104.0	20.4	17.5
44°	1183.6	1098.4	849.5	478.2	86.4	19.6	17.1
44.5°	1184.1	1098.3	845.2	468.3	69.8	18.9	17.0

REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1184.6	1097.9	840.9	458.1	57.0	18.2	16.9
45.5°	1184.6	1097.3	836.6	448.1	48.2	17.4	17.2
46°	1185.0	1097.2	832.1	438.3	42.6	16.6	18.3
46.5°	1185.2	1096.8	827.4	428.6	38.8	15.9	21.4
47°	1185.8	1096.2	822.6	419.0	36.0	15.3	32.6
47.5°	1186.2	1095.5	817.6	409.2	33.7	14.7	52.5
48°	1186.5	1095.0	812.7	399.7	31.8	14.1	71.7
48.5°	1186.9	1094.3	807.4	389.6	30.4	13.8	84.8
49°	1187.3	1093.5	802.0	380.3	29.0	13.6	108.6
49.5°	1187.1	1092.5	796.4	370.8	27.9	13.4	112.5
50°	1187.3	1091.4	791.0	361.6	26.9	13.2	105.0
50.5°	1187.4	1090.5	785.2	352.0	25.4	13.0	101.3
51°	1187.6	1089.5	779.4	342.3	24.3	12.9	97.6
51.5°	1187.6	1088.6	773.9	332.6	23.5	12.8	92.2
52°	1187.2	1087.8	767.6	323.3	22.8	12.8	85.1
52.5°	1186.7	1086.9	761.3	313.4	22.2	13.4	75.3
53°	1186.4	1086.1	755.4	303.6	21.6	15.1	65.9
53.5°	1185.7	1085.3	749.1	293.3	21.1	21.1	56.0
54°	1184.9	1084.3	742.8	283.4	20.4	33.0	46.1
54.5°	1184.1	1083.6	736.6	272.6	19.6	42.9	37.9
55°	1183.2	1082.8	730.5	261.8	19.0	46.2	31.5
55.5°	1182.2	1081.6	724.3	251.0	18.4	56.6	26.7
56°	1181.3	1080.7	717.9	239.5	17.8	60.7	22.7
56.5°	1180.1	1079.6	711.5	227.3	17.3	55.8	19.2
57°	1178.9	1078.2	704.9	215.2	16.8	52.6	16.1
57.5°	1177.9	1076.6	698.6	203.1	16.3	50.3	13.5
58°	1177.0	1074.4	692.4	190.9	15.9	48.8	11.5
58.5°	1176.4	1072.0	685.9	178.8	15.4	47.4	9.8
59°	1175.3	1069.7	679.1	166.3	14.9	45.7	8.6
59.5°	1173.9	1067.4	672.4	154.2	14.5	43.6	7.6
60°	1172.5	1065.1	665.8	142.5	14.0	41.5	6.8
60.5°	1171.1	1062.4	659.1	132.3	13.6	38.9	6.2
61°	1169.1	1059.7	652.8	124.8	13.1	36.0	5.7
61.5°	1167.2	1057.3	646.1	118.1	12.6	33.3	5.2
62°	1165.6	1054.7	639.9	114.2	12.1	30.5	4.7
62.5°	1163.4	1052.0	633.4	112.1	11.5	27.5	4.3
63°	1161.1	1049.6	626.6	107.0	11.1	24.6	3.8
63.5°	1159.0	1047.2	619.8	94.2	10.5	21.7	3.3
64°	1156.8	1044.9	613.3	77.2	10.0	18.8	2.7
64.5°	1155.0	1042.7	607.0	64.3	9.4	16.1	2.2
65°	1153.2	1040.8	600.7	57.9	8.8	13.7	1.9
65.5°	1151.2	1038.8	594.2	55.2	8.3	11.2	1.8
66°	1149.8	1036.6	587.6	53.4	7.7	8.4	1.8
66.5°	1148.6	1034.1	580.9	51.9	7.3	5.0	1.7
67°	1147.9	1031.6	573.9	50.4	7.0	2.3	1.5

REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1147.5	1029.0	566.7	49.1	6.6	1.4	1.4
68°	1146.7	1027.0	559.2	47.8	6.2	1.2	1.1
68.5°	1146.2	1024.5	551.9	46.5	5.9	1.1	1.0
69°	1145.8	1022.3	544.4	45.3	5.6	1.1	1.0
69.5°	1146.0	1020.4	536.2	44.3	5.3	1.1	1.0
70°	1145.8	1018.0	528.4	43.4	4.9	1.0	1.0
70.5°	1145.2	1015.3	520.9	42.5	4.5	0.8	0.9
71°	1143.7	1012.3	513.8	41.6	4.0	0.7	0.8
71.5°	1142.5	1010.1	506.6	40.7	3.5	0.7	0.8
72°	1140.3	1008.8	498.7	39.8	2.9	0.6	0.7
72.5°	1138.0	1009.0	491.6	38.9	2.6	0.6	0.7
73°	1134.8	1009.5	484.1	37.8	2.3	0.6	0.7
73.5°	1130.8	1011.1	477.1	36.8	2.1	0.6	0.7
74°	1124.5	1012.6	469.4	36.1	1.8	0.6	0.7
74.5°	1117.9	1015.2	461.7	35.2	1.6	0.6	0.6
75°	1109.4	1018.0	455.2	33.2	1.4	0.6	0.6
75.5°	1098.0	1020.5	448.7	30.9	1.2	0.6	0.6
76°	1083.2	1021.8	442.2	28.4	1.0	0.6	0.6
76.5°	1065.5	1021.2	435.6	26.1	0.8	0.5	0.7
77°	1043.7	1019.6	429.1	22.9	0.7	0.5	0.7
77.5°	1019.7	1018.1	423.9	20.0	0.6	0.5	0.7
78°	992.5	1015.5	418.7	18.0	0.6	0.5	0.7
78.5°	965.9	1014.9	414.1	16.2	0.5	0.5	0.8
79°	939.2	1014.0	409.5	14.8	0.4	0.5	0.8
79.5°	914.2	1013.0	404.8	13.5	0.4	0.5	0.8
80°	892.0	1007.7	399.9	12.3	0.4	0.5	0.9
80.5°	874.9	998.8	395.2	11.2	0.4	0.5	0.9
81°	861.7	982.5	391.3	10.4	0.4	0.5	0.9
81.5°	854.4	955.1	388.6	9.2	0.4	0.5	0.9
82°	841.6	912.4	388.1	8.3	0.4	0.5	0.9
82.5°	816.8	856.6	390.0	7.5	0.4	0.5	1.0
83°	773.7	790.5	394.4	6.8	0.4	0.5	1.0
83.5°	717.3	714.1	401.4	6.2	0.4	0.5	1.0
84°	656.2	640.6	409.2	5.7	0.4	0.5	1.0
84.5°	600.6	585.7	413.5	5.2	0.4	0.5	1.1
85°	559.8	547.3	416.4	4.8	0.4	0.6	1.1
85.5°	529.7	512.7	418.4	4.4	0.4	0.6	1.2
86°	499.7	473.4	416.2	4.0	0.4	0.6	1.2
86.5°	469.7	457.4	408.2	3.6	0.4	0.7	1.2
87°	439.7	475.4	395.9	3.3	0.4	0.7	1.3
87.5°	410.6	496.8	378.7	2.9	0.4	0.7	1.3
88°	401.2	496.9	354.8	2.6	0.5	0.7	1.4
88.5°	331.1	444.9	324.6	2.2	0.5	0.8	1.4
89°	215.4	342.8	287.9	1.9	0.5	0.8	1.4
89.5°	135.7	228.9	246.6	1.6	0.5	0.8	1.5

REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	77.4	177.7	205.0	1.3	0.5	0.9	1.5
90.5°	43.1	129.5	166.6	1.0	0.6	0.9	1.6
91°	36.4	81.3	135.0	0.9	0.6	0.9	1.6
91.5°	37.5	33.2	108.1	0.8	0.6	1.0	1.7
92°	37.7	29.5	86.0	0.7	0.7	1.0	1.7
92.5°	36.7	27.7	69.0	0.7	0.7	1.0	1.7
93°	36.5	26.7	56.6	0.6	0.7	1.1	1.8
93.5°	38.7	26.7	46.6	0.6	0.7	1.1	1.8
94°	39.5	28.1	37.5	0.6	0.8	1.1	1.9
94.5°	36.4	28.1	33.1	0.5	0.8	1.2	1.9
95°	32.1	26.3	33.3	0.5	0.8	1.2	1.9
95.5°	28.9	24.3	34.3	0.5	0.8	1.3	2.0
96°	28.2	23.4	35.8	0.5	0.9	1.3	2.0
96.5°	28.4	21.6	38.0	0.6	0.9	1.3	2.0
97°	26.9	19.4	37.7	0.6	0.9	1.4	2.1
97.5°	24.6	18.2	29.7	0.5	1.0	1.4	2.1
98°	23.8	18.0	20.8	0.5	1.0	1.4	2.2
98.5°	23.2	18.3	14.7	0.5	1.0	1.5	2.2
99°	22.6	18.5	12.3	0.5	1.1	1.5	2.2
99.5°	21.3	18.3	10.6	0.5	1.1	1.5	2.2
100°	19.5	17.7	9.1	0.5	1.1	1.6	2.3
100.5°	17.0	16.5	7.5	0.5	1.1	1.6	2.3
101°	14.5	14.8	6.6	0.5	1.2	1.7	2.3
101.5°	12.2	12.7	5.6	0.5	1.2	1.7	2.4
102°	10.3	10.1	4.4	0.5	1.2	1.7	2.4
102.5°	8.8	7.3	3.5	0.5	1.3	1.8	2.4
103°	8.0	4.9	2.8	0.5	1.3	1.8	2.4
103.5°	7.6	3.3	2.4	0.5	1.3	1.8	2.5
104°	6.7	2.2	2.1	0.5	1.3	1.9	2.5
104.5°	5.6	1.7	1.9	0.5	1.4	1.9	2.5
105°	4.1	1.4	1.6	0.6	1.4	1.9	2.6
105.5°	2.6	1.2	1.4	0.6	1.4	2.0	2.6
106°	1.3	0.9	1.2	0.6	1.4	2.0	2.6
106.5°	0.7	0.7	1.0	0.6	1.5	2.0	2.6
107°	0.5	0.5	0.8	0.6	1.5	2.1	2.6
107.5°	0.3	0.3	0.7	0.6	1.5	2.1	2.7
108°	0.2	0.2	0.6	0.6	1.6	2.1	2.7
108.5°	0.1	0.1	0.5	0.6	1.6	2.1	2.7
109°	0.0	0.0	0.4	0.7	1.6	2.2	2.7
109.5°	0.0	0.0	0.4	0.7	1.6	2.2	2.8
110°	0.0	0.0	0.3	0.7	1.7	2.2	2.8
110.5°	0.0	0.0	0.3	0.7	1.7	2.2	2.8
111°	0.0	0.0	0.2	0.7	1.7	2.2	2.8
111.5°	0.0	0.0	0.2	0.7	1.7	2.3	2.8
112°	0.0	0.0	0.1	0.7	1.7	2.3	2.8

REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.1	0.7	1.8	2.3	2.8
113°	0.0	0.0	0.1	0.7	1.8	2.3	2.9
113.5°	0.0	0.0	0.1	0.8	1.8	2.4	2.9
114°	0.0	0.0	0.1	0.8	1.8	2.4	2.9
114.5°	0.0	0.0	0.1	0.8	1.8	2.4	2.9
115°	0.0	0.0	0.1	0.8	1.9	2.4	2.9
115.5°	0.0	0.0	0.1	0.8	1.9	2.4	2.9
116°	0.0	0.0	0.1	0.8	1.9	2.4	2.9
116.5°	0.0	0.0	0.1	0.8	1.9	2.5	2.9
117°	0.0	0.0	0.1	0.9	2.0	2.5	2.9
117.5°	0.0	0.0	0.1	0.9	2.0	2.5	2.9
118°	0.0	0.0	0.2	0.9	2.0	2.5	2.9
118.5°	0.0	0.0	0.2	0.9	2.0	2.5	2.9
119°	0.0	0.0	0.2	0.9	2.0	2.5	2.9
119.5°	0.0	0.0	0.2	0.9	2.0	2.6	3.0
120°	0.0	0.0	0.2	0.9	2.1	2.6	3.0
120.5°	0.0	0.0	0.2	1.0	2.1	2.6	3.0
121°	0.0	0.0	0.2	1.0	2.1	2.6	3.0
121.5°	0.0	0.0	0.3	1.0	2.1	2.6	3.0
122°	0.0	0.0	0.3	1.0	2.1	2.6	3.0
122.5°	0.0	0.0	0.3	1.0	2.1	2.7	3.0
123°	0.0	0.0	0.3	1.0	2.2	2.7	3.0
123.5°	0.0	0.0	0.3	1.1	2.2	2.7	3.0
124°	0.0	0.0	0.3	1.1	2.2	2.7	3.0
124.5°	0.0	0.0	0.4	1.1	2.2	2.7	3.0
125°	0.0	0.0	0.4	1.1	2.2	2.7	3.0
125.5°	0.0	0.0	0.4	1.1	2.2	2.8	3.0
126°	0.0	0.0	0.4	1.1	2.2	2.8	3.0
126.5°	0.0	0.0	0.4	1.1	2.2	2.8	3.0
127°	0.0	0.0	0.4	1.2	2.3	2.8	3.0
127.5°	0.0	0.0	0.4	1.2	2.3	2.8	3.0
128°	0.0	0.0	0.5	1.2	2.3	2.8	3.0
128.5°	0.0	0.0	0.5	1.2	2.3	2.8	3.0
129°	0.0	0.0	0.5	1.2	2.3	2.8	3.0
129.5°	0.0	0.0	0.5	1.3	2.3	2.8	3.0
130°	0.0	0.0	0.5	1.3	2.3	2.8	3.0
130.5°	0.0	0.0	0.6	1.3	2.3	2.8	3.1
131°	0.0	0.0	0.6	1.3	2.3	2.9	3.1
131.5°	0.0	0.0	0.6	1.3	2.3	2.9	3.1
132°	0.0	0.0	0.6	1.4	2.3	2.9	3.1
132.5°	0.0	0.0	0.6	1.4	2.3	2.9	3.1
133°	0.0	0.1	0.7	1.4	2.3	2.9	3.1
133.5°	0.0	0.1	0.7	1.4	2.3	2.9	3.1
134°	0.0	0.1	0.7	1.4	2.4	2.9	3.1
134.5°	0.0	0.1	0.7	1.4	2.4	2.9	3.1

REPORT NUMBER: P1197014

CATALOG NUMBER: AWPf28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.1	0.7	1.4	2.4	2.9	3.1
135.5°	0.1	0.1	0.8	1.5	2.4	2.9	3.1
136°	0.1	0.1	0.8	1.5	2.4	2.9	3.1
136.5°	0.1	0.2	0.8	1.5	2.4	2.9	3.1
137°	0.1	0.2	0.8	1.5	2.4	2.9	3.1
137.5°	0.1	0.2	0.8	1.5	2.4	2.9	3.1
138°	0.1	0.2	0.9	1.5	2.4	2.9	3.1
138.5°	0.1	0.2	0.9	1.5	2.4	2.9	3.1
139°	0.1	0.2	0.9	1.6	2.4	2.9	3.1
139.5°	0.1	0.3	0.9	1.6	2.4	2.9	3.1
140°	0.2	0.3	0.9	1.6	2.4	2.9	3.1
140.5°	0.2	0.3	0.9	1.6	2.5	2.9	3.1
141°	0.2	0.3	1.0	1.6	2.5	2.9	3.1
141.5°	0.2	0.3	1.0	1.6	2.5	2.9	3.1
142°	0.2	0.4	1.0	1.7	2.5	2.9	3.1
142.5°	0.2	0.4	1.0	1.7	2.5	2.9	3.1
143°	0.2	0.4	1.0	1.7	2.5	2.9	3.1
143.5°	0.3	0.4	1.1	1.7	2.5	2.9	3.1
144°	0.3	0.4	1.1	1.7	2.5	2.9	3.1
144.5°	0.3	0.4	1.1	1.7	2.5	2.9	3.1
145°	0.3	0.5	1.1	1.7	2.5	2.9	3.1
145.5°	0.3	0.5	1.1	1.8	2.5	2.9	3.0
146°	0.3	0.5	1.2	1.8	2.5	2.9	3.0
146.5°	0.3	0.5	1.2	1.8	2.5	2.9	3.0
147°	0.4	0.6	1.2	1.8	2.5	2.9	3.0
147.5°	0.4	0.6	1.2	1.8	2.5	2.9	3.0
148°	0.4	0.6	1.2	1.8	2.5	2.9	3.0
148.5°	0.4	0.7	1.3	1.8	2.5	2.9	3.0
149°	0.4	0.7	1.3	1.8	2.6	2.9	3.0
149.5°	0.5	0.7	1.3	1.9	2.6	2.9	3.0
150°	0.5	0.7	1.3	1.9	2.6	2.9	3.0
150.5°	0.5	0.7	1.3	1.9	2.6	2.9	3.0
151°	0.5	0.8	1.4	1.9	2.6	2.9	3.0
151.5°	0.6	0.8	1.4	1.9	2.6	2.9	3.0
152°	0.6	0.8	1.4	1.9	2.6	2.9	2.9
152.5°	0.6	0.8	1.4	2.0	2.6	2.9	2.9
153°	0.6	0.9	1.4	2.0	2.6	2.9	2.9
153.5°	0.6	0.9	1.5	2.0	2.6	2.9	2.9
154°	0.7	0.9	1.5	2.0	2.6	2.9	2.9
154.5°	0.7	0.9	1.5	2.0	2.6	2.9	2.9
155°	0.7	1.0	1.5	2.0	2.6	2.9	2.9
155.5°	0.7	1.0	1.5	2.1	2.6	2.9	2.9
156°	0.8	1.0	1.6	2.1	2.6	2.9	2.9
156.5°	0.8	1.0	1.6	2.1	2.6	2.9	2.9
157°	0.8	1.0	1.6	2.1	2.6	2.9	2.9

REPORT NUMBER: P1197014

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.8	1.1	1.6	2.1	2.6	2.9	2.9
158°	0.8	1.1	1.6	2.1	2.6	2.9	2.9
158.5°	0.9	1.1	1.6	2.1	2.6	2.9	2.9
159°	0.9	1.1	1.7	2.1	2.6	2.9	2.8
159.5°	0.9	1.2	1.7	2.1	2.6	2.9	2.8
160°	0.9	1.2	1.7	2.1	2.6	2.9	2.8
160.5°	1.0	1.2	1.7	2.1	2.6	2.9	2.8
161°	1.0	1.2	1.7	2.2	2.6	2.9	2.8
161.5°	1.0	1.2	1.8	2.2	2.6	2.8	2.8
162°	1.0	1.3	1.8	2.2	2.6	2.8	2.8
162.5°	1.0	1.3	1.8	2.2	2.6	2.8	2.7
163°	1.1	1.3	1.8	2.2	2.6	2.8	2.7
163.5°	1.1	1.3	1.8	2.2	2.6	2.8	2.7
164°	1.1	1.4	1.9	2.2	2.6	2.8	2.7
164.5°	1.1	1.4	1.9	2.2	2.6	2.8	2.7
165°	1.2	1.4	1.9	2.3	2.6	2.8	2.7
165.5°	1.2	1.5	1.9	2.3	2.6	2.8	2.7
166°	1.2	1.5	1.9	2.3	2.6	2.8	2.6
166.5°	1.2	1.5	2.0	2.3	2.6	2.8	2.6
167°	1.3	1.5	2.0	2.3	2.6	2.8	2.6
167.5°	1.3	1.5	2.0	2.3	2.6	2.8	2.6
168°	1.3	1.6	2.0	2.3	2.6	2.8	2.6
168.5°	1.4	1.6	2.0	2.3	2.6	2.7	2.6
169°	1.4	1.6	2.1	2.3	2.6	2.8	2.6
169.5°	1.4	1.6	2.1	2.3	2.6	2.7	2.5
170°	1.5	1.7	2.1	2.3	2.6	2.7	2.5
170.5°	1.5	1.7	2.1	2.3	2.6	2.7	2.5
171°	1.5	1.7	2.1	2.3	2.6	2.7	2.5
171.5°	1.5	1.7	2.1	2.4	2.6	2.7	2.5
172°	1.6	1.8	2.2	2.4	2.6	2.7	2.4
172.5°	1.6	1.8	2.2	2.4	2.6	2.7	2.4
173°	1.6	1.8	2.2	2.4	2.6	2.6	2.4
173.5°	1.6	1.8	2.2	2.4	2.6	2.6	2.3
174°	1.7	1.9	2.2	2.4	2.6	2.6	2.3
174.5°	1.7	1.9	2.3	2.4	2.6	2.6	2.3
175°	1.7	1.9	2.3	2.4	2.6	2.6	2.3
175.5°	1.8	2.0	2.3	2.4	2.5	2.6	2.3
176°	1.8	2.0	2.3	2.4	2.5	2.6	2.2
176.5°	1.8	2.0	2.3	2.4	2.5	2.6	2.2
177°	1.9	2.0	2.3	2.4	2.5	2.5	2.2
177.5°	1.9	2.1	2.3	2.4	2.5	2.5	2.2
178°	1.9	2.1	2.3	2.4	2.5	2.5	2.1
178.5°	2.0	2.1	2.3	2.4	2.5	2.5	2.1
179°	2.0	2.1	2.3	2.4	2.5	2.5	2.1
179.5°	2.0	2.1	2.3	2.4	2.5	2.5	2.1



REPORT NUMBER: P1197014
CATALOG NUMBER: AWPf28S-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)