

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: P1196999

Luminaire Tested: AWPf28S-BZ-LOW-3000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1196999
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 0
Description: AWP Architectural
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 2600 (1 lamp)
Luminaire Lumens: 2852.9 lumens
Efficiency: 109.7%
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type III - Short - Cutoff
BUG Rating: B1 - U1 - G0

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

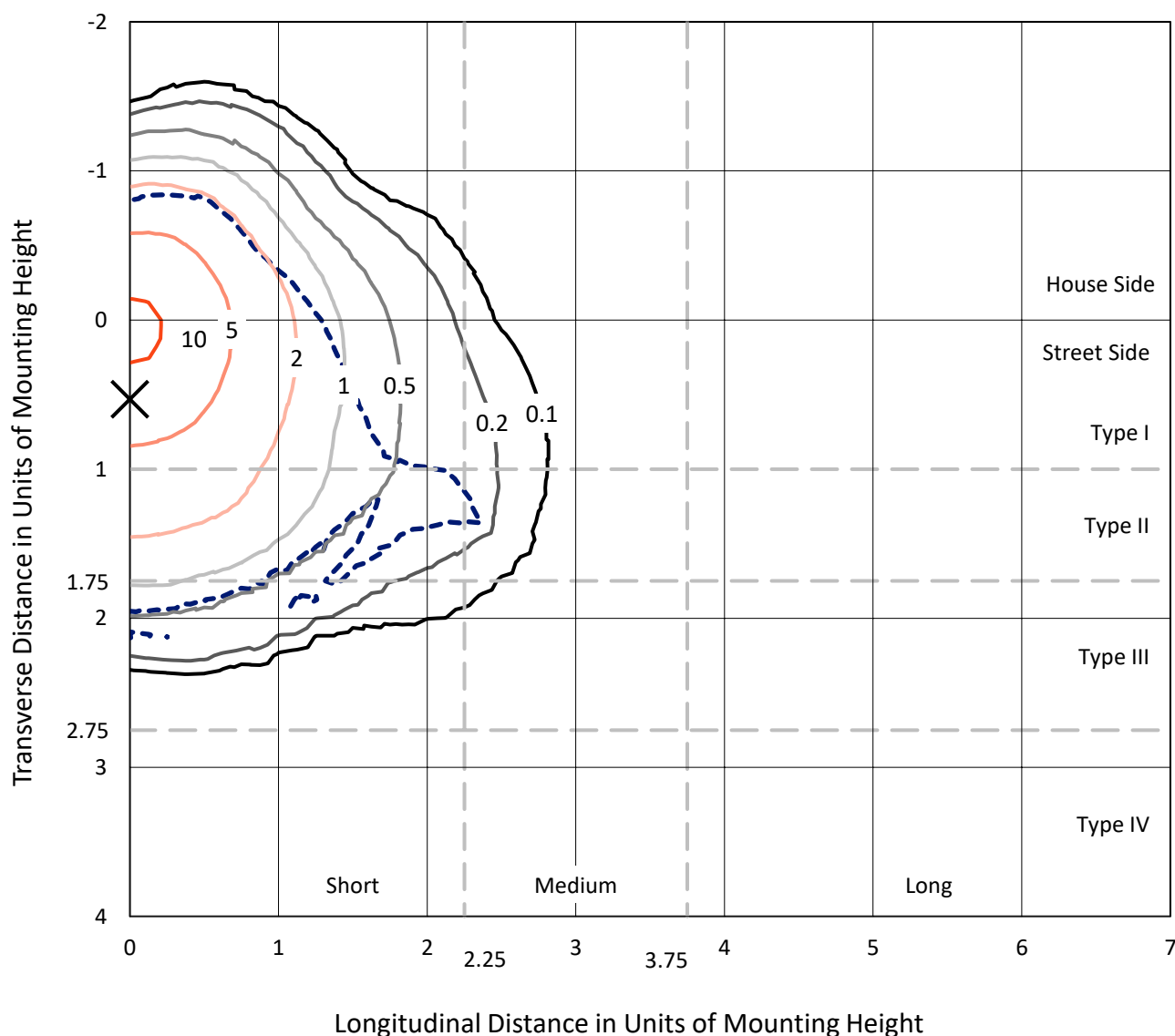
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

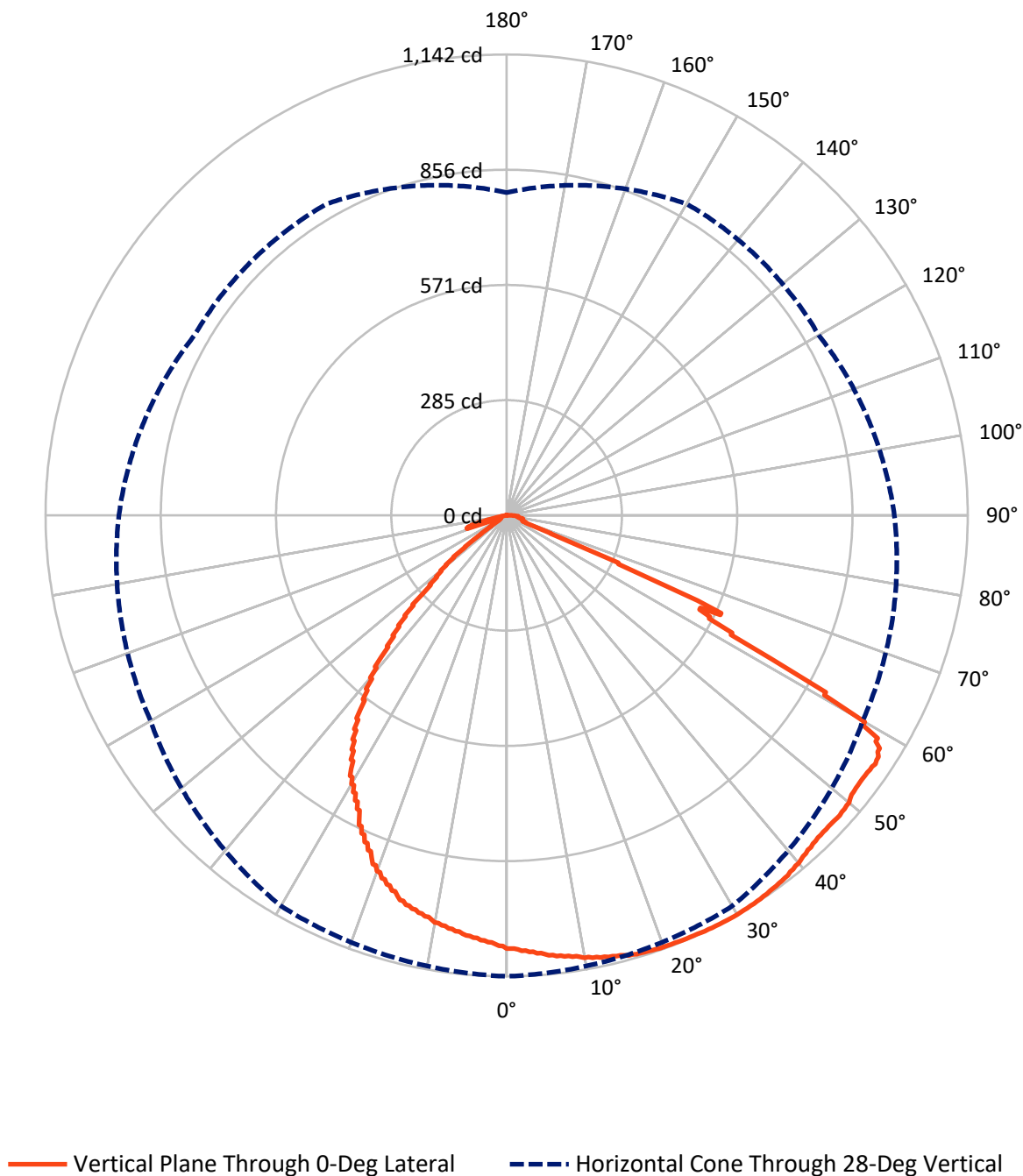


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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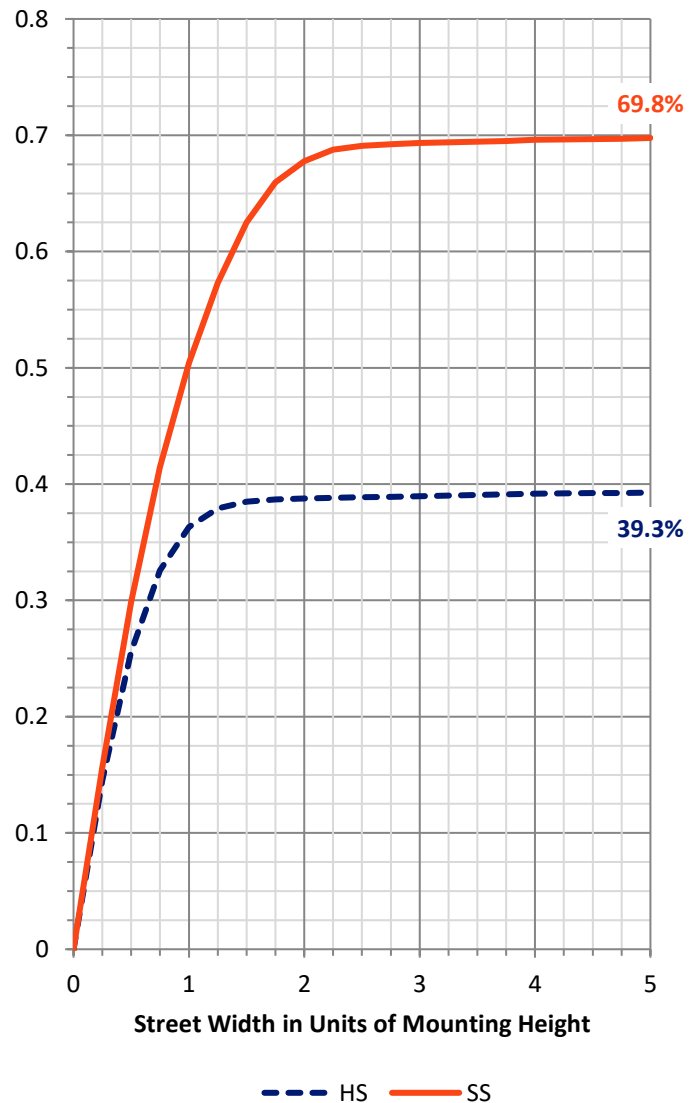
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1031.7	2.8	1034.5
	% Lamp	39.7	0.1	39.8
Street Side	Lumens	1815.8	2.6	1818.4
	% Lamp	69.8	0.1	69.9
Total	Lumens	2847.5	5.4	2852.9
	% Lamp	109.5	0.2	109.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	103.0	3.6	4.0
10°-20°	300.1	10.5	11.5
20°-30°	462.4	16.2	17.8
30°-40°	560.9	19.7	21.6
40°-50°	569.8	20.0	21.9
50°-60°	498.7	17.5	19.2
60°-70°	270.5	9.5	10.4
70°-80°	65.1	2.3	2.5
80°-90°	16.9	0.6	0.7
90°-100°	1.2	0.0	0.0
100°-110°	0.7	0.0	0.0
110°-120°	0.7	0.0	0.0
120°-130°	0.7	0.0	0.0
130°-140°	0.7	0.0	0.0
140°-150°	0.6	0.0	0.0
150°-160°	0.5	0.0	0.0
160°-170°	0.3	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	2847.5	99.8	109.5
0°-180°	2852.9	100.0	109.7

Coefficient of Utilization



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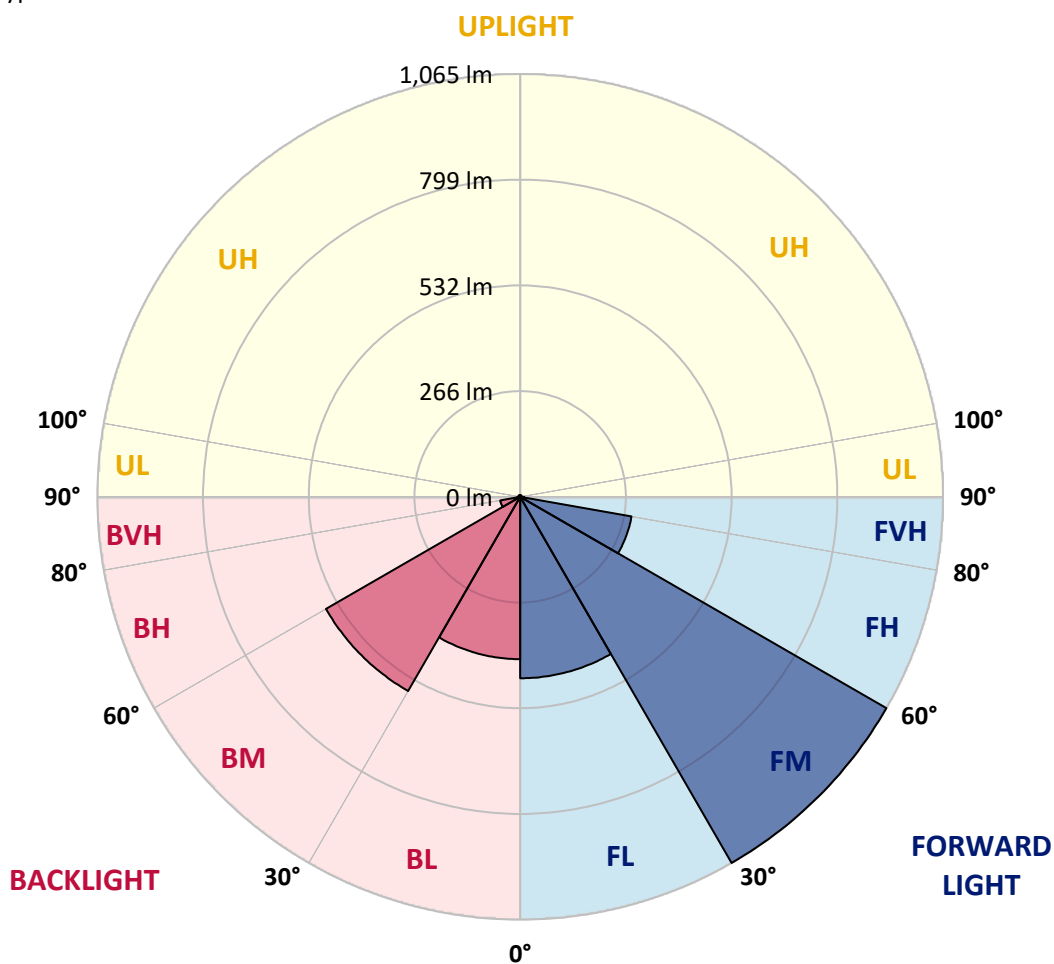
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	456.9	17.6			
FM	(30°-60°)	1064.7	40.9			
FH	(60°-80°)	284.7	10.9			G0/660
FVH	(80°-90°)	9.6	0.4			G0/10
BL	(0°-30°)	408.7	15.7	B1/500		
BM	(30°-60°)	564.7	21.7	B1/1000		
BH	(60°-80°)	51.0	2.0	B0/110		G0/110
BVH	(80°-90°)	7.3	0.3			G0/10
UL	(90°-100°)	1.2	0.0		U1/10	
UH	(100°-180°)	4.3	0.2		U1/10	
Trapped Light		-252.9	-9.7			

BUG Rating: B1-U1-G0

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2
0.5°	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2
1°	1075.0	1085.9	1094.1	1088.6	1079.2	1080.8	1066.4
1.5°	1079.0	1090.1	1094.1	1088.5	1075.9	1080.8	1066.4
2°	1079.0	1090.2	1095.9	1088.3	1075.8	1079.9	1062.0
2.5°	1082.8	1092.9	1095.9	1088.2	1074.4	1076.1	1058.0
3°	1082.8	1092.9	1097.6	1087.4	1074.4	1076.1	1058.0
3.5°	1087.1	1096.3	1097.6	1086.8	1071.6	1073.0	1054.0
4°	1087.1	1096.3	1098.8	1086.8	1071.6	1073.0	1054.0
4.5°	1090.8	1098.3	1098.8	1087.9	1067.4	1068.4	1049.3
5°	1094.6	1102.0	1098.8	1087.9	1067.4	1068.4	1049.3
5.5°	1094.6	1102.0	1100.4	1086.7	1064.3	1066.2	1045.3
6°	1098.4	1105.0	1100.4	1086.7	1062.4	1066.2	1045.2
6.5°	1098.4	1105.0	1100.8	1085.6	1062.3	1061.7	1041.6
7°	1101.8	1107.6	1100.8	1085.5	1055.5	1061.6	1037.2
7.5°	1101.8	1107.6	1099.1	1079.9	1055.4	1056.7	1037.2
8°	1105.5	1111.5	1099.1	1079.8	1052.0	1051.8	1033.0
8.5°	1105.5	1111.5	1099.1	1079.8	1052.0	1051.8	1033.0
9°	1109.0	1113.0	1099.1	1078.5	1049.0	1048.1	1028.1
9.5°	1112.5	1113.0	1099.8	1078.5	1049.0	1048.1	1028.1
10°	1112.6	1116.6	1097.7	1076.5	1044.3	1044.0	1023.7
10.5°	1116.2	1117.4	1097.7	1076.4	1040.0	1044.0	1023.7
11°	1116.2	1117.5	1098.3	1076.4	1039.9	1039.6	1018.6
11.5°	1119.4	1119.2	1098.3	1076.2	1034.4	1039.5	1013.2
12°	1119.4	1119.2	1096.5	1073.1	1034.3	1035.2	1013.2
12.5°	1122.6	1121.5	1096.5	1073.1	1031.1	1032.8	1007.9
13°	1122.6	1121.5	1096.6	1068.7	1031.1	1032.8	1007.9
13.5°	1125.3	1123.4	1096.5	1065.1	1024.6	1028.1	1002.1
14°	1125.3	1123.4	1093.2	1065.1	1024.6	1028.1	1002.1
14.5°	1128.2	1124.3	1093.2	1063.7	1020.4	1022.1	996.0
15°	1131.3	1124.8	1090.7	1063.7	1020.4	1022.1	996.0
15.5°	1131.3	1124.8	1088.5	1057.9	1011.1	1017.2	988.8
16°	1133.5	1126.4	1088.5	1057.8	1006.0	1017.2	988.8
16.5°	1133.5	1126.3	1085.3	1053.9	1005.9	1011.9	980.6
17°	1134.6	1127.0	1085.3	1053.7	999.6	1011.7	971.4
17.5°	1134.6	1126.9	1082.0	1047.4	999.5	1007.3	971.4
18°	1136.0	1126.7	1082.0	1047.2	992.1	1000.2	961.1
18.5°	1136.0	1126.6	1078.2	1043.4	992.1	1000.2	961.1
19°	1137.5	1126.7	1078.0	1033.5	984.9	992.8	950.1
19.5°	1137.5	1126.7	1073.9	1033.5	984.9	992.8	950.1
20°	1137.5	1125.0	1068.7	1030.6	977.3	988.2	938.0
20.5°	1137.7	1124.9	1068.7	1030.6	977.3	988.2	938.0
21°	1137.7	1124.7	1062.6	1021.4	969.9	982.7	925.2
21.5°	1138.6	1123.9	1062.6	1021.2	961.4	982.7	925.0
22°	1138.6	1123.8	1058.3	1017.1	961.2	973.4	911.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1138.8	1123.1	1058.3	1016.9	953.4	973.1	897.2
23°	1138.8	1122.9	1051.8	1008.9	953.2	964.5	897.2
23.5°	1139.2	1122.0	1051.6	999.3	946.5	955.5	881.9
24°	1139.2	1121.9	1047.5	999.3	946.5	955.5	881.9
24.5°	1140.1	1122.2	1047.4	993.3	936.0	943.1	865.4
25°	1140.8	1122.0	1038.7	993.3	936.0	943.1	865.4
25.5°	1140.7	1119.6	1032.5	981.1	924.8	932.0	849.3
26°	1141.1	1119.6	1032.5	980.9	914.1	932.0	849.3
26.5°	1141.1	1119.5	1026.3	973.0	913.8	917.3	832.6
27°	1141.3	1118.9	1026.3	972.8	905.0	916.9	816.1
27.5°	1141.3	1118.7	1017.9	960.2	904.8	905.7	816.1
28°	1141.6	1117.2	1017.9	959.9	892.4	891.0	799.5
28.5°	1141.6	1117.0	1010.8	953.0	892.4	891.0	799.5
29°	1141.5	1116.6	1010.6	942.3	879.6	875.1	783.3
29.5°	1141.5	1116.4	1002.0	942.3	879.6	875.1	783.3
30°	1141.3	1115.2	1001.8	931.2	866.9	860.4	767.8
30.5°	1140.7	1112.7	995.7	931.2	866.9	860.4	767.8
31°	1140.7	1112.5	987.9	920.7	855.7	842.7	752.5
31.5°	1140.0	1109.5	987.9	920.4	841.5	842.7	752.5
32°	1140.0	1109.4	981.7	911.9	841.2	825.2	736.2
32.5°	1138.9	1106.7	981.7	911.6	827.4	824.9	717.4
33°	1138.9	1106.5	973.7	899.1	827.0	808.4	717.4
33.5°	1137.2	1103.3	973.5	887.7	809.6	790.3	695.2
34°	1137.2	1103.2	966.5	887.7	809.6	790.3	695.2
34.5°	1135.9	1100.2	966.3	879.1	793.7	773.5	673.1
35°	1135.0	1100.0	956.7	879.1	793.7	773.5	673.1
35.5°	1134.9	1095.2	949.4	864.6	776.4	753.8	649.7
36°	1133.3	1090.8	949.4	864.2	757.7	753.8	649.7
36.5°	1133.3	1090.6	940.0	851.9	757.4	736.9	625.6
37°	1131.4	1087.3	940.0	851.5	735.7	736.9	625.3
37.5°	1131.4	1087.1	932.0	839.1	735.4	720.9	601.5
38°	1127.7	1083.4	932.0	838.8	717.6	702.6	578.0
38.5°	1127.7	1083.2	922.1	826.5	717.6	702.6	578.0
39°	1124.7	1079.6	921.8	810.0	694.3	683.5	553.4
39.5°	1124.7	1079.4	912.5	810.0	694.3	683.5	553.4
40°	1122.0	1075.5	912.2	797.6	672.1	662.7	524.8
40.5°	1118.5	1071.0	902.8	797.6	672.1	662.7	524.8
41°	1118.5	1070.8	893.2	783.7	646.9	641.1	496.3
41.5°	1114.9	1065.3	893.2	783.2	622.6	641.1	496.3
42°	1114.9	1065.1	883.1	768.5	622.2	616.9	467.5
42.5°	1111.5	1059.2	883.1	768.0	597.8	616.3	438.5
43°	1111.5	1059.0	873.2	753.4	597.3	591.4	438.5
43.5°	1109.5	1053.1	873.2	753.0	574.3	565.5	409.9
44°	1109.5	1052.9	863.1	735.6	574.3	565.5	409.9
44.5°	1109.1	1048.4	862.8	719.4	548.7	542.5	382.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1109.1	1048.2	852.6	719.4	548.7	542.5	382.8
45.5°	1108.3	1043.6	852.2	701.3	523.5	517.2	353.8
46°	1108.7	1041.2	841.8	701.3	523.5	517.2	353.8
46.5°	1108.7	1040.9	828.6	683.3	499.3	489.3	321.0
47°	1109.9	1039.4	828.6	682.9	476.2	489.3	321.0
47.5°	1109.9	1039.4	828.2	665.6	475.7	460.9	285.5
48°	1108.3	1037.4	813.8	665.1	452.4	460.4	255.9
48.5°	1108.3	1037.1	799.5	646.2	451.7	429.9	255.9
49°	1106.8	1037.8	799.5	645.8	429.3	399.9	231.4
49.5°	1106.8	1037.5	785.1	627.1	429.3	399.9	231.4
50°	1102.7	1037.6	784.7	607.2	403.7	370.8	213.0
50.5°	1098.8	1037.3	769.5	607.2	403.7	370.8	213.0
51°	1098.8	1038.9	753.3	587.5	377.7	343.2	193.6
51.5°	1096.9	1040.0	753.3	587.0	349.9	343.2	193.6
52°	1096.9	1039.7	737.7	568.6	349.4	316.2	166.8
52.5°	1096.4	1042.0	737.7	568.1	321.7	316.2	166.3
53°	1096.4	1041.7	722.1	549.9	321.2	289.6	129.3
53.5°	1096.7	1044.8	722.1	549.3	290.8	262.8	128.8
54°	1096.8	1050.8	706.3	531.1	290.8	262.2	99.4
54.5°	1098.3	1050.8	706.0	512.0	259.3	230.9	76.4
55°	1098.3	1050.4	689.2	512.0	259.3	230.9	76.4
55.5°	1101.4	1066.8	688.9	493.5	227.3	205.7	48.7
56°	1098.1	1093.1	675.4	493.5	227.3	205.7	48.7
56.5°	1098.1	1092.8	660.4	475.6	197.5	183.6	27.5
57°	1089.2	1115.9	660.4	475.1	173.2	183.6	27.5
57.5°	1089.2	1115.7	648.8	457.0	172.8	163.5	22.6
58°	1071.5	1133.3	648.8	456.6	154.6	163.5	21.0
58.5°	1071.5	1133.1	635.2	439.2	154.0	134.2	21.0
59°	1023.8	1094.6	635.2	438.9	138.9	97.4	19.7
59.5°	1023.8	1094.4	623.0	421.5	138.9	97.4	19.7
60°	903.6	978.3	622.7	405.7	116.7	69.7	18.7
60.5°	903.6	978.1	612.3	405.7	116.7	69.7	18.7
61°	745.6	824.3	601.3	386.5	82.8	50.8	17.3
61.5°	629.3	684.4	601.3	386.5	82.8	50.8	17.3
62°	629.3	684.3	592.3	367.1	53.0	34.1	16.0
62.5°	562.4	582.0	592.3	366.9	41.7	34.1	15.9
63°	562.4	581.9	587.4	343.8	41.5	25.9	15.5
63.5°	531.5	484.7	587.4	343.7	37.2	22.9	15.8
64°	531.5	484.8	590.1	318.1	37.2	22.9	15.8
64.5°	583.7	525.2	590.1	318.1	34.4	21.4	15.6
65°	583.7	525.5	605.1	286.3	34.4	21.4	15.6
65.5°	517.9	585.6	604.3	248.2	32.3	20.6	15.3
66°	301.9	585.9	619.2	248.2	32.3	20.6	15.3
66.5°	300.0	491.1	634.0	212.7	30.6	19.9	15.0
67°	117.7	317.7	634.0	212.6	29.0	19.9	15.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	117.7	317.6	629.4	183.1	29.0	19.4	14.4
68°	52.5	144.6	629.4	183.1	27.2	19.4	14.4
68.5°	52.5	144.2	608.7	158.4	27.1	18.5	14.2
69°	42.0	56.0	608.7	158.3	25.3	17.7	15.5
69.5°	42.0	55.2	568.9	133.5	25.3	17.7	15.5
70°	41.9	40.3	568.4	108.3	23.5	17.4	33.9
70.5°	41.9	39.0	506.1	108.3	23.5	17.4	33.9
71°	46.9	38.5	505.6	87.6	21.4	17.0	33.9
71.5°	42.9	40.9	421.4	87.6	21.4	17.8	69.8
72°	42.9	39.1	332.7	77.1	19.6	18.0	103.6
72.5°	41.3	38.1	332.7	77.0	17.7	18.0	103.6
73°	41.3	36.6	254.7	60.0	17.7	17.0	102.8
73.5°	40.7	36.0	254.7	60.0	16.1	16.9	97.8
74°	40.7	34.7	191.0	48.1	16.0	15.0	97.8
74.5°	37.9	31.2	191.0	48.0	14.6	13.3	89.0
75°	37.9	30.2	142.0	41.5	14.6	13.3	89.0
75.5°	40.0	30.5	141.9	36.6	13.2	12.0	71.5
76°	40.0	29.7	102.2	36.6	13.2	12.0	71.5
76.5°	41.5	31.2	72.5	32.8	12.2	11.2	53.1
77°	40.9	34.0	72.5	32.8	12.2	11.2	53.1
77.5°	40.9	33.7	59.5	30.2	11.3	11.0	34.4
78°	36.4	36.4	59.5	30.2	10.5	11.0	34.4
78.5°	36.4	36.3	54.8	26.2	10.4	10.3	24.0
79°	31.7	36.9	54.8	26.2	9.6	10.1	17.9
79.5°	31.7	36.8	51.0	20.5	9.6	10.2	17.9
80°	28.9	34.3	51.0	20.5	8.6	22.0	12.8
80.5°	28.9	34.3	49.6	16.0	8.6	22.0	12.8
81°	28.2	30.0	49.6	13.1	8.2	33.6	9.1
81.5°	29.2	30.0	49.5	13.1	8.2	33.6	9.1
82°	29.1	26.0	49.4	10.6	8.0	35.6	7.2
82.5°	29.1	21.9	44.2	10.6	7.4	37.8	7.2
83°	29.1	21.8	36.4	9.0	7.4	37.8	5.7
83.5°	28.5	17.7	36.4	8.9	5.3	37.8	5.7
84°	28.5	17.6	27.9	7.6	5.2	36.0	4.5
84.5°	28.2	13.6	27.9	7.6	5.2	34.9	3.4
85°	28.2	13.4	18.5	6.5	5.2	34.9	3.4
85.5°	26.2	10.1	18.5	5.3	3.5	32.6	2.7
86°	26.2	10.0	9.4	5.3	2.7	32.6	2.7
86.5°	22.6	7.6	9.4	4.4	2.7	30.1	1.8
87°	18.6	5.5	2.9	4.3	1.9	30.1	1.8
87.5°	18.6	5.5	0.4	3.6	1.8	26.0	1.0
88°	15.7	3.2	0.4	3.6	1.3	26.0	1.0
88.5°	15.7	3.2	0.2	2.8	0.8	21.3	0.6
89°	12.6	2.2	0.2	2.8	0.8	21.3	0.4
89.5°	12.6	2.2	0.2	2.4	0.6	15.0	0.4

REPORT NUMBER: P1196999

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	10.1	1.6	0.2	2.4	0.4	6.7	0.4
90.5°	10.1	1.6	0.2	2.0	0.4	6.7	0.4
91°	7.0	1.5	0.2	1.5	0.3	2.3	0.4
91.5°	7.0	1.5	0.2	1.5	0.3	2.3	0.4
92°	2.8	1.4	0.2	1.3	0.3	1.6	0.6
92.5°	1.6	1.3	0.2	1.3	0.3	1.6	0.6
93°	1.6	1.3	0.2	1.3	0.3	1.5	0.7
93.5°	1.5	1.3	0.2	1.3	0.3	1.5	0.7
94°	1.5	1.3	0.2	1.2	0.3	1.5	0.5
94.5°	1.5	1.2	0.2	1.2	0.3	1.5	0.4
95°	1.5	1.2	0.2	1.2	0.3	1.4	0.4
95.5°	1.4	1.2	0.2	1.2	0.3	1.3	0.4
96°	1.4	1.2	0.2	1.1	0.3	1.3	0.4
96.5°	1.3	1.2	0.2	1.1	0.3	1.2	0.4
97°	1.3	1.2	0.2	1.1	0.3	1.2	0.4
97.5°	1.3	1.1	0.2	1.1	0.3	1.2	0.4
98°	1.2	1.1	0.2	1.1	0.3	1.2	0.4
98.5°	1.2	1.1	0.2	1.1	0.3	1.2	0.4
99°	1.2	1.0	0.2	1.0	0.3	1.2	0.4
99.5°	1.2	1.0	0.2	1.0	0.3	1.1	0.4
100°	1.2	1.0	0.2	1.0	0.3	1.1	0.4
100.5°	1.2	1.0	0.2	1.0	0.3	1.1	0.4
101°	1.1	1.0	0.2	1.0	0.3	1.1	0.4
101.5°	1.1	1.0	0.2	1.0	0.4	1.1	0.4
102°	1.1	0.9	0.2	1.0	0.4	1.1	0.4
102.5°	1.1	0.9	0.2	1.0	0.4	1.1	0.4
103°	1.1	0.9	0.2	0.9	0.4	1.1	0.4
103.5°	1.1	0.9	0.2	0.9	0.4	1.1	0.4
104°	1.1	0.9	0.2	1.0	0.4	1.1	0.4
104.5°	1.1	0.9	0.2	1.0	0.4	1.1	0.4
105°	1.1	0.9	0.2	0.9	0.4	1.1	0.4
105.5°	1.1	0.9	0.2	0.9	0.4	1.0	0.4
106°	1.1	0.8	0.2	0.9	0.4	1.0	0.4
106.5°	1.0	0.8	0.2	0.9	0.4	1.0	0.4
107°	1.0	0.8	0.2	0.9	0.4	1.0	0.4
107.5°	1.0	0.8	0.2	0.9	0.4	1.0	0.5
108°	1.0	0.8	0.2	0.9	0.4	1.0	0.5
108.5°	1.0	0.8	0.2	0.9	0.5	1.0	0.5
109°	1.0	0.8	0.2	0.9	0.5	1.0	0.5
109.5°	1.0	0.8	0.2	0.9	0.5	1.0	0.5
110°	0.9	0.8	0.2	0.9	0.5	1.0	0.5
110.5°	0.9	0.8	0.2	0.9	0.5	1.0	0.5
111°	0.9	0.8	0.2	0.9	0.5	1.0	0.5
111.5°	0.9	0.9	0.3	0.9	0.5	1.0	0.5
112°	0.9	0.8	0.3	0.9	0.5	1.0	0.6

REPORT NUMBER: P1196999

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.9	0.8	0.3	0.9	0.5	1.0	0.6
113°	0.9	0.8	0.3	0.9	0.5	1.0	0.6
113.5°	0.9	0.8	0.3	0.9	0.5	1.0	0.6
114°	0.9	0.8	0.3	0.9	0.6	1.1	0.6
114.5°	0.9	0.8	0.3	0.9	0.6	1.1	0.6
115°	0.9	0.8	0.3	0.9	0.5	1.0	0.6
115.5°	0.8	0.8	0.3	0.9	0.5	1.1	0.7
116°	0.8	0.8	0.3	0.9	0.6	1.1	0.7
116.5°	0.8	0.8	0.3	0.9	0.6	1.0	0.7
117°	0.8	0.8	0.3	0.9	0.6	1.0	0.7
117.5°	0.8	0.8	0.3	0.9	0.6	1.1	0.7
118°	0.8	0.8	0.3	0.9	0.6	1.1	0.7
118.5°	0.8	0.8	0.4	0.9	0.6	1.0	0.7
119°	0.8	0.8	0.4	0.9	0.6	1.0	0.7
119.5°	0.8	0.8	0.4	0.9	0.6	1.1	0.7
120°	0.8	0.8	0.4	0.9	0.6	1.1	0.7
120.5°	0.8	0.8	0.4	0.9	0.6	1.1	0.7
121°	0.8	0.8	0.4	0.9	0.6	1.1	0.8
121.5°	0.8	0.8	0.4	1.0	0.6	1.1	0.8
122°	0.8	0.8	0.4	1.0	0.6	1.1	0.8
122.5°	0.8	0.8	0.4	1.0	0.7	1.1	0.8
123°	0.8	0.8	0.4	0.9	0.7	1.1	0.8
123.5°	0.8	0.8	0.4	0.9	0.7	1.1	0.8
124°	0.8	0.8	0.4	0.9	0.7	1.1	0.8
124.5°	0.8	0.8	0.4	0.9	0.7	1.1	0.8
125°	0.8	0.8	0.4	0.9	0.7	1.1	0.8
125.5°	0.8	0.8	0.4	0.9	0.7	1.1	0.8
126°	0.8	0.8	0.5	1.0	0.7	1.1	0.8
126.5°	0.8	0.8	0.5	0.9	0.7	1.1	0.9
127°	0.8	0.8	0.5	0.9	0.7	1.1	0.9
127.5°	0.8	0.8	0.5	0.9	0.7	1.1	0.9
128°	0.8	0.8	0.5	0.9	0.7	1.1	0.9
128.5°	0.8	0.8	0.5	1.0	0.7	1.1	0.9
129°	0.8	0.8	0.5	1.0	0.8	1.1	0.9
129.5°	0.8	0.8	0.5	1.0	0.7	1.1	0.9
130°	0.8	0.8	0.5	1.0	0.7	1.1	0.9
130.5°	0.8	0.8	0.5	1.0	0.8	1.1	0.9
131°	0.8	0.8	0.5	1.0	0.8	1.1	0.9
131.5°	0.8	0.8	0.6	1.0	0.7	1.1	0.9
132°	0.8	0.9	0.6	1.0	0.7	1.1	0.9
132.5°	0.8	0.9	0.6	1.0	0.8	1.1	0.9
133°	0.8	0.9	0.6	1.0	0.8	1.1	0.9
133.5°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
134°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
134.5°	0.8	0.9	0.6	1.0	0.8	1.1	1.0

REPORT NUMBER: P1196999

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
135.5°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
136°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
136.5°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
137°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
137.5°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
138°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
138.5°	0.8	0.9	0.7	1.0	0.8	1.1	1.0
139°	0.8	0.9	0.7	1.0	0.8	1.1	1.0
139.5°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
140°	0.8	0.9	0.6	1.0	0.8	1.1	1.0
140.5°	0.8	0.9	0.7	1.0	0.8	1.1	1.0
141°	0.8	0.9	0.7	1.0	0.8	1.1	1.0
141.5°	0.8	0.9	0.7	1.0	0.8	1.1	1.0
142°	0.9	0.9	0.7	1.0	0.8	1.1	1.0
142.5°	0.9	0.9	0.7	1.0	0.8	1.1	1.0
143°	0.8	1.0	0.7	1.0	0.8	1.1	1.0
143.5°	0.9	0.9	0.7	1.0	0.9	1.1	1.0
144°	0.9	0.9	0.7	1.1	0.9	1.1	1.0
144.5°	0.9	1.0	0.7	1.0	0.8	1.1	1.0
145°	0.9	1.0	0.7	1.0	0.9	1.1	1.0
145.5°	0.9	1.0	0.7	1.0	0.9	1.1	1.0
146°	0.9	1.0	0.8	1.0	0.8	1.1	1.0
146.5°	0.9	1.0	0.8	1.0	0.8	1.1	1.0
147°	0.9	1.0	0.7	1.1	0.9	1.1	1.0
147.5°	0.9	1.0	0.7	1.1	0.9	1.1	1.0
148°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
148.5°	0.9	1.0	0.7	1.0	0.9	1.1	1.0
149°	0.9	1.0	0.7	1.0	0.9	1.1	1.0
149.5°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
150°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
150.5°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
151°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
151.5°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
152°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
152.5°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
153°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
153.5°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
154°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
154.5°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
155°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
155.5°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
156°	0.9	1.0	0.8	1.1	0.9	1.1	1.0
156.5°	1.0	1.0	0.8	1.1	0.9	1.1	1.0
157°	1.0	1.0	0.8	1.1	0.9	1.1	1.0

REPORT NUMBER: P1196999

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.0	1.0	0.8	1.1	0.9	1.1	1.0
158°	1.0	1.0	0.8	1.1	0.9	1.1	1.0
158.5°	1.0	1.0	0.8	1.0	0.9	1.1	1.0
159°	1.0	1.0	0.8	1.0	0.9	1.1	1.0
159.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
160°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
160.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
161°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
161.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
162°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
162.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
163°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
163.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
164°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
164.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
165°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
165.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
166°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
166.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
167°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
167.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
168°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
168.5°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
169°	1.1	1.0	0.9	1.1	1.0	1.1	1.0
169.5°	1.1	1.0	0.9	1.1	1.0	1.1	1.0
170°	1.0	1.0	0.9	1.1	0.9	1.1	1.0
170.5°	1.0	1.0	0.9	1.1	1.0	1.1	1.0
171°	1.1	1.0	0.9	1.1	1.0	1.1	1.0
171.5°	1.1	1.1	0.9	1.1	0.9	1.1	1.0
172°	1.1	1.1	0.9	1.1	0.9	1.1	1.0
172.5°	1.1	1.0	0.9	1.1	0.9	1.1	1.0
173°	1.1	1.0	0.9	1.1	0.9	1.1	1.0
173.5°	1.1	1.1	1.0	1.1	0.9	1.1	1.0
174°	1.1	1.1	1.0	1.1	0.9	1.1	1.0
174.5°	1.1	1.0	0.9	1.1	1.0	1.1	1.0
175°	1.1	1.0	0.9	1.1	0.9	1.1	1.0
175.5°	1.1	1.0	0.9	1.1	0.9	1.1	1.0
176°	1.1	1.0	0.9	1.1	1.0	1.1	1.0
176.5°	1.1	1.0	0.9	1.1	1.0	1.1	1.0
177°	1.1	1.1	1.0	1.1	0.9	1.1	1.0
177.5°	1.1	1.1	1.0	1.1	0.9	1.1	1.0
178°	1.1	1.1	0.9	1.1	1.0	1.1	1.0
178.5°	1.1	1.1	0.9	1.1	1.0	1.0	1.0
179°	1.1	1.0	1.0	1.1	0.9	1.0	1.0
179.5°	1.1	1.0	1.0	1.1	0.9	1.1	1.0



REPORT NUMBER: P1196999
CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)