

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: P1197005

Luminaire Tested: AWPf28S-BZ-LOW-5000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197005
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 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 2700 (1 lamp)
Luminaire Lumens: 3005.1 lumens
Efficiency: 111.3%
Efficacy: 143.1 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
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

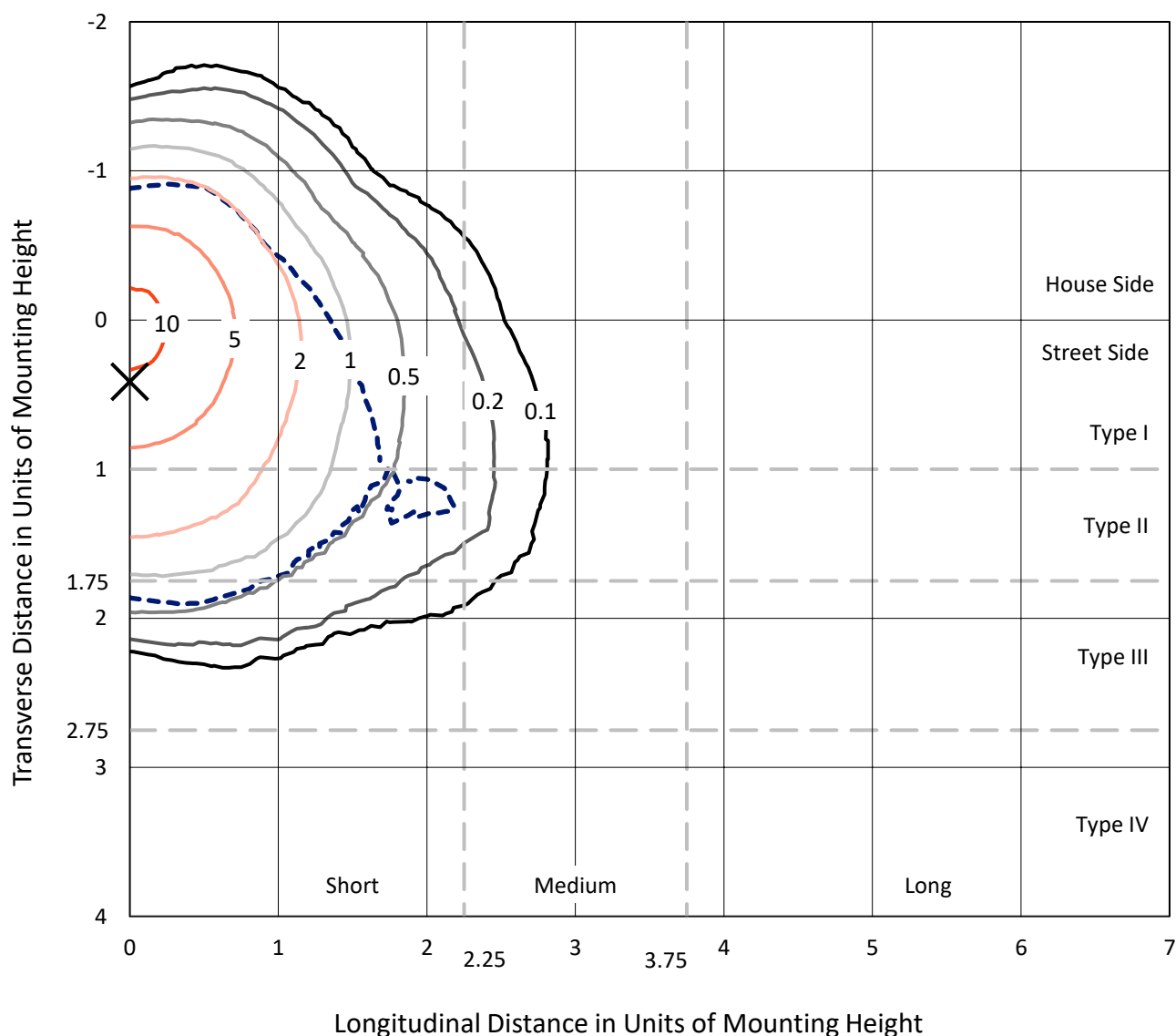
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

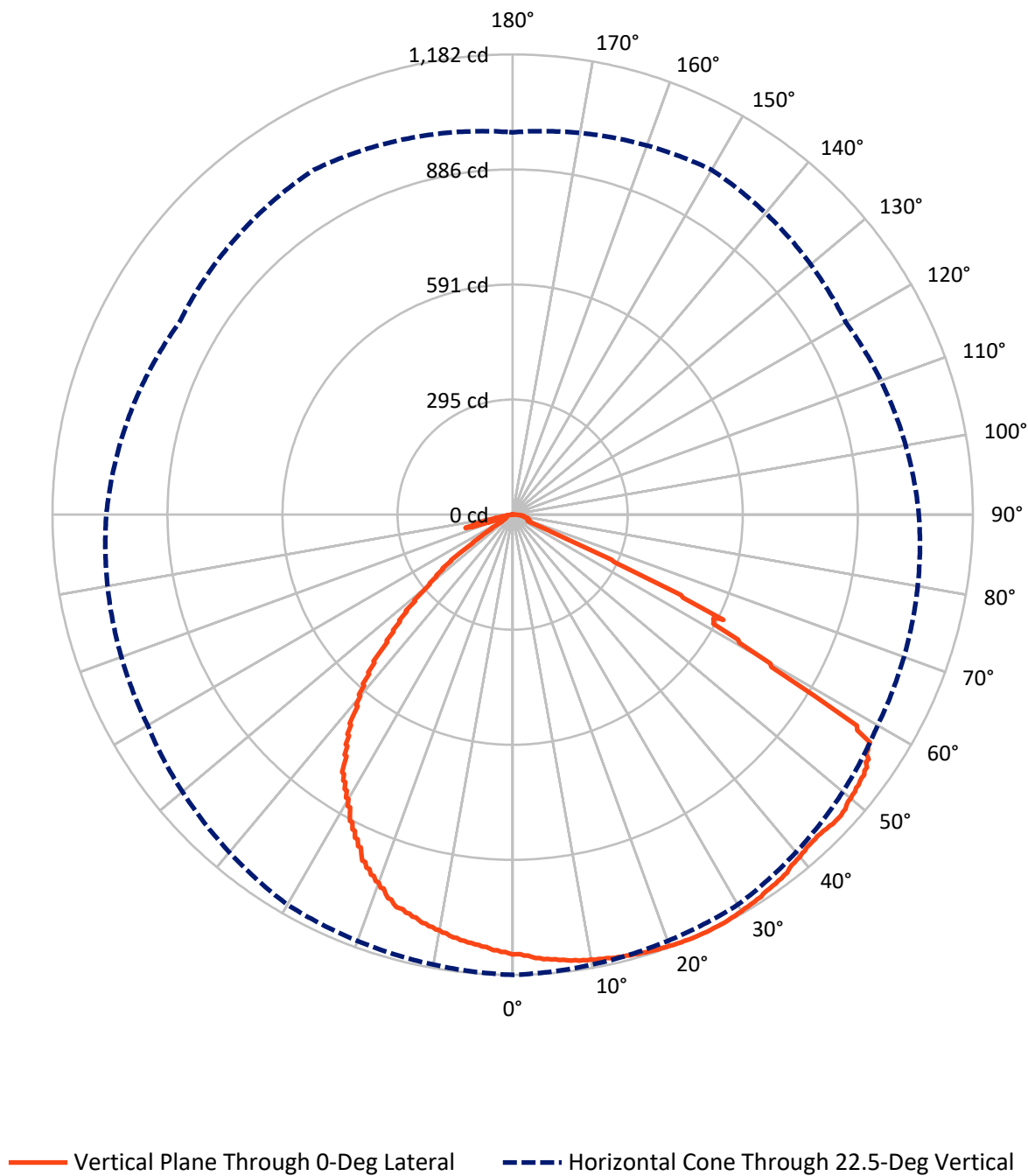


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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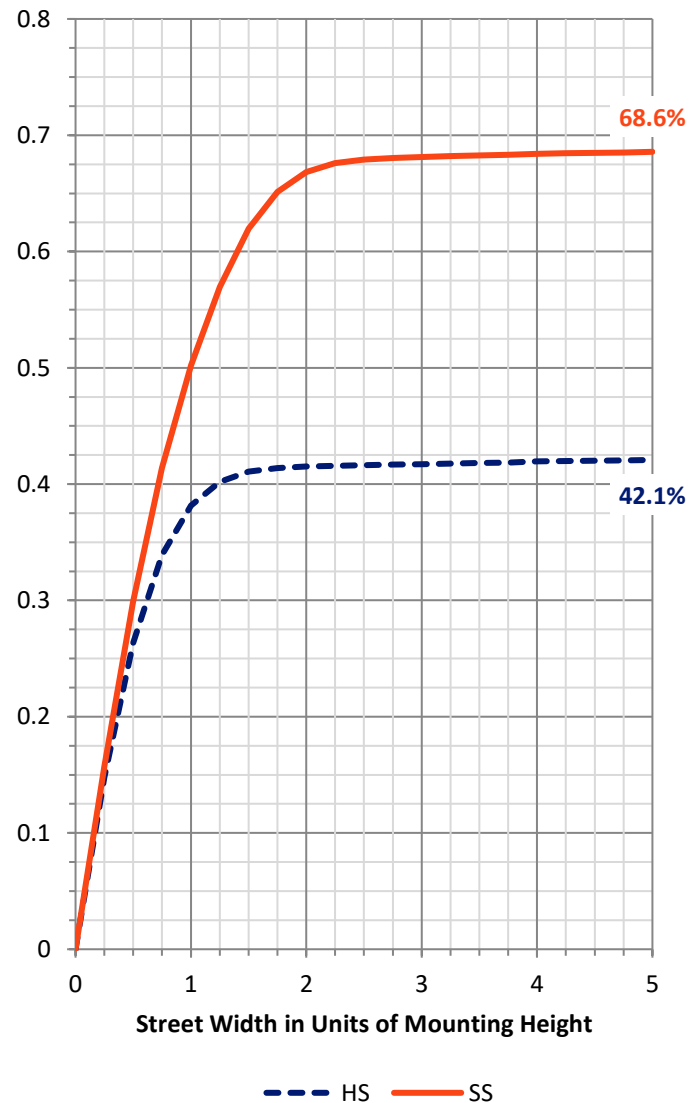
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.3	3.1	1150.4
	% Lamp	42.5	0.1	42.6
Street Side	Lumens	1852.4	2.3	1854.7
	% Lamp	68.6	0.1	68.7
Total	Lumens	2999.7	5.4	3005.1
	% Lamp	111.1	0.2	111.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	107.7	3.6	4.0
10°-20°	311.6	10.4	11.5
20°-30°	481.3	16.0	17.8
30°-40°	589.3	19.6	21.8
40°-50°	608.9	20.3	22.6
50°-60°	535.4	17.8	19.8
60°-70°	277.5	9.2	10.3
70°-80°	70.8	2.4	2.6
80°-90°	17.2	0.6	0.6
90°-100°	1.4	0.0	0.1
100°-110°	0.7	0.0	0.0
110°-120°	0.6	0.0	0.0
120°-130°	0.7	0.0	0.0
130°-140°	0.6	0.0	0.0
140°-150°	0.6	0.0	0.0
150°-160°	0.4	0.0	0.0
160°-170°	0.3	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	2999.7	99.8	111.1
0°-180°	3005.1	100.0	111.3

Coefficient of Utilization



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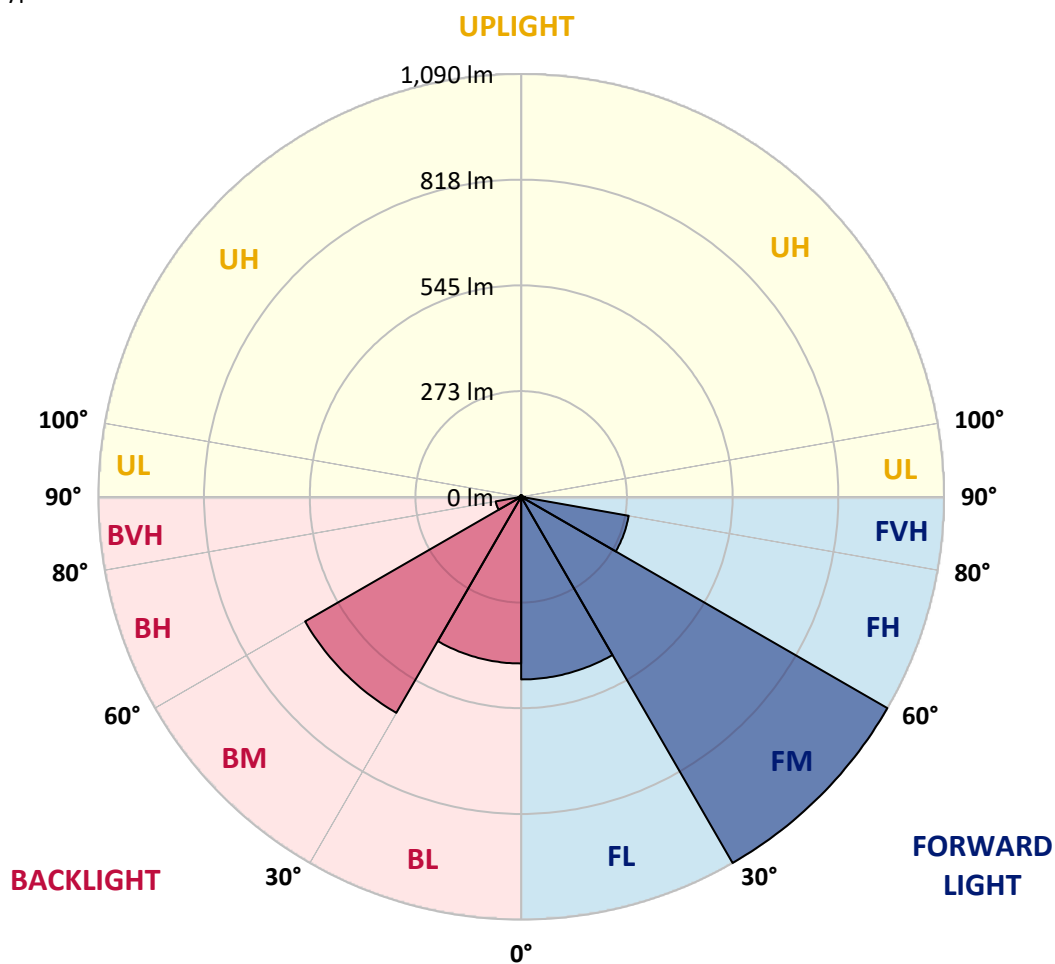
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.9	17.4			
FM	(30°-60°)	1090.3	40.4			
FH	(60°-80°)	281.6	10.4			G0/660
FVH	(80°-90°)	9.7	0.4			G0/10
BL	(0°-30°)	429.8	15.9	B1/500		
BM	(30°-60°)	643.3	23.8	B1/1000		
BH	(60°-80°)	66.8	2.5	B0/110		G0/110
BVH	(80°-90°)	7.5	0.3			G0/10
UL	(90°-100°)	1.4	0.1		U1/10	
UH	(100°-180°)	4.0	0.1		U1/10	
Trapped Light		-305.1	-11.3			

BUG Rating: B1-U1-G0

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0
0.5°	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0
1°	1132.9	1135.2	1140.5	1138.6	1131.7	1136.8	1126.3
1.5°	1132.9	1135.2	1140.5	1138.6	1129.0	1136.6	1123.3
2°	1136.9	1136.2	1140.5	1138.6	1129.0	1133.4	1123.1
2.5°	1140.4	1136.4	1141.5	1138.5	1126.2	1133.2	1119.5
3°	1140.5	1140.0	1141.1	1137.0	1126.1	1129.9	1119.3
3.5°	1144.3	1144.9	1141.4	1137.0	1122.1	1129.6	1115.9
4°	1144.4	1144.9	1141.2	1136.0	1122.1	1126.6	1112.0
4.5°	1146.7	1146.4	1141.3	1136.0	1118.8	1126.4	1112.0
5°	1146.9	1146.4	1141.0	1134.9	1118.8	1123.2	1108.2
5.5°	1150.2	1147.3	1141.5	1134.9	1114.7	1120.6	1108.0
6°	1150.2	1147.3	1141.5	1133.1	1114.6	1120.6	1105.0
6.5°	1153.1	1151.2	1139.6	1133.0	1110.4	1116.7	1104.7
7°	1155.0	1151.3	1139.6	1131.1	1105.8	1116.4	1100.9
7.5°	1155.1	1149.2	1137.2	1131.0	1105.8	1112.6	1100.7
8°	1158.2	1149.4	1137.2	1127.8	1100.6	1112.4	1096.4
8.5°	1158.3	1150.7	1136.8	1124.7	1100.4	1108.1	1096.2
9°	1160.1	1154.9	1137.1	1124.7	1095.7	1107.8	1093.2
9.5°	1160.1	1154.9	1134.8	1118.2	1095.3	1104.1	1088.2
10°	1162.3	1155.2	1134.8	1118.2	1089.3	1103.8	1088.2
10.5°	1162.4	1155.2	1132.8	1118.1	1089.3	1099.5	1083.6
11°	1164.1	1156.8	1129.0	1117.9	1083.6	1095.0	1083.4
11.5°	1164.1	1156.8	1129.0	1117.9	1083.6	1095.0	1078.9
12°	1166.1	1154.7	1126.1	1117.7	1077.4	1089.8	1078.6
12.5°	1167.7	1158.4	1126.3	1107.8	1070.6	1089.4	1074.0
13°	1167.8	1158.4	1121.8	1102.3	1070.3	1085.3	1073.7
13.5°	1169.6	1158.5	1121.8	1102.3	1063.1	1084.9	1069.3
14°	1169.6	1158.3	1120.5	1097.0	1062.9	1080.4	1063.6
14.5°	1171.5	1159.5	1120.6	1097.0	1055.9	1080.1	1063.6
15°	1171.5	1159.5	1118.4	1091.7	1055.6	1073.7	1058.2
15.5°	1173.7	1159.9	1111.2	1091.3	1049.3	1073.3	1058.2
16°	1173.7	1159.9	1111.2	1085.5	1049.0	1068.6	1051.7
16.5°	1175.3	1160.3	1108.7	1085.3	1042.7	1063.0	1051.4
17°	1175.3	1160.3	1108.7	1080.2	1035.1	1062.6	1051.4
17.5°	1176.5	1160.4	1106.5	1080.1	1035.1	1056.7	1044.6
18°	1177.3	1160.4	1106.5	1075.2	1028.1	1056.3	1036.1
18.5°	1177.3	1159.3	1101.5	1069.1	1027.7	1050.3	1035.7
19°	1178.4	1158.9	1101.4	1069.1	1020.2	1049.8	1027.1
19.5°	1178.4	1158.9	1097.9	1062.4	1019.9	1044.5	1016.1
20°	1179.7	1158.2	1097.9	1062.4	1012.1	1044.0	1016.1
20.5°	1179.7	1158.2	1093.8	1056.5	1011.8	1037.6	1005.1
21°	1180.2	1156.8	1089.0	1056.3	1004.5	1030.6	1004.7
21.5°	1180.2	1156.8	1089.0	1049.7	1004.2	1030.6	993.9
22°	1181.0	1156.5	1082.2	1049.4	996.3	1022.6	993.4

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1181.8	1156.5	1082.2	1043.4	987.9	1022.1	981.7
23°	1181.7	1154.7	1079.1	1043.3	987.9	1014.0	981.2
23.5°	1181.5	1154.6	1079.1	1036.4	979.5	1013.5	969.0
24°	1181.4	1152.4	1071.4	1028.1	979.0	1003.7	968.5
24.5°	1181.5	1151.5	1071.3	1028.1	970.8	1003.2	954.6
25°	1181.4	1151.5	1067.6	1020.4	970.4	993.0	939.4
25.5°	1180.9	1150.6	1067.5	1020.4	961.7	992.5	939.4
26°	1180.8	1150.6	1057.1	1011.4	961.3	981.4	924.0
26.5°	1180.7	1144.8	1053.2	1011.2	951.9	968.7	923.3
27°	1180.7	1144.8	1053.2	1002.3	951.4	968.7	907.5
27.5°	1179.6	1146.1	1047.0	1002.0	943.0	956.0	906.8
28°	1178.3	1146.0	1047.0	993.2	933.2	955.4	891.5
28.5°	1178.1	1142.3	1041.1	985.1	932.8	942.4	890.7
29°	1176.4	1142.2	1041.1	985.1	923.4	941.9	875.6
29.5°	1176.2	1139.2	1034.5	976.3	922.9	927.5	859.7
30°	1174.0	1134.8	1034.2	976.3	913.1	927.0	859.7
30.5°	1173.9	1134.8	1027.1	966.5	912.6	911.9	843.6
31°	1172.4	1130.8	1020.8	966.2	902.9	911.4	843.6
31.5°	1172.4	1130.8	1020.8	956.2	902.4	895.9	826.9
32°	1170.6	1127.8	1013.3	955.8	890.6	878.9	826.0
32.5°	1170.6	1127.8	1013.3	944.8	877.6	878.2	810.7
33°	1167.6	1123.2	1006.3	944.4	877.6	861.1	809.8
33.5°	1165.7	1123.1	1006.3	933.5	863.4	860.4	794.3
34°	1165.5	1120.2	997.9	921.0	862.7	844.4	793.4
34.5°	1163.9	1115.8	997.6	921.0	849.2	843.6	774.5
35°	1163.7	1115.8	986.6	909.2	848.6	826.6	752.9
35.5°	1161.5	1112.8	986.4	909.2	833.9	825.7	752.9
36°	1161.3	1112.8	978.7	899.0	833.4	809.5	730.3
36.5°	1158.9	1108.7	970.3	898.6	817.7	791.9	729.4
37°	1158.9	1108.7	970.3	887.5	817.1	791.9	706.3
37.5°	1154.1	1105.0	959.8	886.9	800.6	773.8	705.4
38°	1150.6	1104.8	959.8	875.5	782.6	772.8	681.3
38.5°	1150.2	1102.0	952.8	875.1	782.6	755.6	680.3
39°	1148.0	1101.8	952.8	863.0	763.2	754.5	656.4
39.5°	1147.8	1097.8	940.7	850.0	762.5	738.5	632.5
40°	1144.1	1091.2	940.4	850.0	743.0	737.4	632.5
40.5°	1143.8	1091.2	931.0	835.9	742.2	719.9	608.5
41°	1140.2	1087.3	930.8	835.9	719.6	699.6	607.5
41.5°	1140.2	1087.3	920.2	822.1	718.9	699.6	580.9
42°	1139.2	1083.1	910.0	821.5	695.9	698.3	580.9
42.5°	1139.2	1083.1	910.0	807.7	671.9	664.9	549.8
43°	1137.3	1076.0	899.2	807.2	671.9	664.9	549.8
43.5°	1138.7	1076.1	899.2	791.2	647.2	640.5	519.6
44°	1138.7	1070.8	888.6	774.6	646.3	640.5	519.6
44.5°	1140.6	1064.7	888.2	758.4	620.9	615.8	489.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1140.5	1064.7	877.4	757.8	620.9	615.8	458.7
45.5°	1143.0	1059.5	877.1	757.8	597.5	590.2	457.3
46°	1143.0	1059.5	865.6	757.1	597.5	590.2	428.4
46.5°	1143.4	1057.0	851.8	756.4	573.9	565.3	427.1
47°	1143.4	1057.0	851.8	722.8	572.0	542.5	398.5
47.5°	1141.2	1058.6	838.7	722.0	549.5	541.3	398.5
48°	1141.2	1058.6	838.7	705.2	526.5	513.9	368.4
48.5°	1136.7	1055.9	825.4	704.5	526.5	513.9	368.4
49°	1133.5	1055.7	825.4	687.7	502.6	485.1	334.6
49.5°	1133.6	1052.8	810.9	669.3	501.6	485.1	334.6
50°	1130.8	1054.4	811.0	669.3	478.7	455.7	304.8
50.5°	1130.9	1054.4	795.6	651.6	477.8	455.7	278.1
51°	1127.5	1053.3	795.6	651.6	453.8	424.3	276.4
51.5°	1127.6	1053.3	781.1	632.6	452.8	424.3	252.0
52°	1124.6	1050.4	766.6	631.8	427.0	393.6	250.3
52.5°	1122.8	1050.3	766.6	614.9	426.0	366.5	227.0
53°	1123.5	1051.1	751.8	614.1	398.5	364.9	227.0
53.5°	1117.3	1050.8	751.8	596.0	368.0	339.3	197.2
54°	1117.9	1051.4	736.1	577.8	367.0	339.3	197.2
54.5°	1107.5	1050.8	736.1	577.8	336.5	314.5	159.1
55°	1109.2	1058.1	721.0	557.7	335.4	314.5	125.0
55.5°	1095.0	1071.9	721.8	557.7	302.9	287.6	123.6
56°	1094.9	1071.9	708.1	539.1	301.9	287.6	96.2
56.5°	1088.3	1094.3	695.8	538.4	271.1	257.8	94.6
57°	1088.3	1094.3	695.8	518.8	270.0	233.4	63.3
57.5°	1043.8	1120.4	685.8	518.2	242.0	231.9	63.3
58°	1036.8	1120.4	685.8	499.8	217.4	209.3	32.5
58.5°	904.5	1123.6	673.7	499.1	217.4	209.3	32.5
59°	770.9	1116.1	673.7	480.1	196.1	182.5	31.0
59.5°	764.2	1056.7	657.9	459.5	194.9	182.5	31.0
60°	668.8	933.5	651.3	459.5	177.2	145.0	29.0
60.5°	662.2	933.5	639.1	438.2	176.0	145.0	27.4
61°	586.7	797.1	631.6	438.2	149.1	105.8	25.3
61.5°	585.2	797.1	620.3	415.6	147.8	105.8	24.6
62°	580.9	683.3	603.6	415.1	107.8	77.4	23.1
62.5°	580.9	683.3	603.6	391.4	106.4	60.5	20.7
63°	605.2	575.2	591.3	391.0	78.9	58.9	20.7
63.5°	487.0	568.5	591.3	364.8	66.3	42.4	18.5
64°	478.9	522.6	587.7	364.7	66.3	42.4	18.5
64.5°	288.7	511.9	587.7	335.3	59.5	35.4	17.5
65°	279.0	561.7	600.4	303.4	57.6	35.4	17.5
65.5°	109.1	532.9	599.4	303.4	54.0	31.8	17.3
66°	102.0	532.9	616.6	268.9	52.0	31.8	17.4
66.5°	48.5	416.8	610.2	268.9	48.9	29.9	17.3
67°	45.9	416.8	627.6	235.2	47.0	29.9	17.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	41.6	248.1	613.7	235.0	44.8	28.4	17.1
68°	41.6	248.1	613.7	205.2	43.2	27.3	16.8
68.5°	45.3	110.3	582.8	203.9	41.5	27.2	16.8
69°	47.7	110.4	582.8	174.7	37.9	26.0	16.1
69.5°	47.8	44.3	537.4	144.3	36.3	26.0	16.1
70°	44.1	44.1	537.4	144.3	33.7	24.7	16.0
70.5°	44.0	37.7	483.0	120.0	32.6	24.7	16.7
71°	43.5	38.8	483.0	120.0	30.0	23.4	16.6
71.5°	43.3	38.8	409.8	103.9	29.3	23.4	29.3
72°	40.8	40.6	332.7	99.5	26.8	22.3	29.2
72.5°	40.8	40.6	332.7	90.5	26.3	21.3	64.4
73°	39.0	38.4	264.9	86.7	24.0	21.2	64.4
73.5°	39.0	36.5	264.8	70.1	21.1	20.2	107.5
74°	41.1	36.6	207.5	66.9	21.1	20.2	107.5
74.5°	41.5	36.6	207.5	61.6	20.8	19.0	125.5
75°	41.6	36.6	155.7	54.4	19.1	19.0	125.5
75.5°	40.5	33.8	155.5	54.4	18.2	16.8	109.2
76°	40.6	34.9	110.4	46.8	17.9	16.8	101.2
76.5°	37.1	34.7	110.4	46.8	16.9	14.8	101.1
77°	37.1	36.4	79.6	39.6	16.6	14.8	85.0
77.5°	33.4	36.2	61.2	38.6	14.6	13.5	85.0
78°	33.4	38.2	61.3	32.1	14.3	12.8	67.5
78.5°	30.4	38.1	56.7	31.8	11.9	12.7	67.5
79°	29.2	38.2	56.7	25.7	9.8	12.5	45.5
79.5°	29.0	38.2	56.0	25.7	9.8	12.5	45.5
80°	29.8	36.4	55.9	20.4	8.8	11.9	29.1
80.5°	29.8	36.4	53.0	16.8	8.7	11.9	29.1
81°	29.7	32.8	52.8	16.8	7.6	12.1	20.4
81.5°	29.5	28.8	48.0	14.2	7.5	12.1	14.3
82°	28.8	28.7	48.0	14.2	6.7	24.6	15.0
82.5°	28.6	25.0	43.4	12.4	6.6	24.6	10.6
83°	27.4	24.9	36.0	11.9	6.0	39.7	11.4
83.5°	27.4	21.0	35.7	10.4	5.9	43.4	9.1
84°	24.8	20.8	26.8	9.9	4.9	43.3	9.1
84.5°	20.7	15.9	26.6	8.9	3.6	39.2	7.4
85°	20.6	15.9	18.1	7.2	3.5	39.2	7.4
85.5°	16.9	11.4	17.8	7.2	2.9	35.3	6.1
86°	16.9	9.0	9.6	5.6	2.8	35.3	5.1
86.5°	14.1	8.8	9.6	5.6	2.4	31.2	4.8
87°	14.1	6.7	2.6	4.4	2.4	31.2	4.1
87.5°	11.3	6.6	0.5	4.3	1.6	29.2	4.0
88°	11.3	4.4	0.4	3.5	1.5	26.5	3.0
88.5°	8.2	4.3	0.4	3.5	0.9	26.5	3.0
89°	8.2	2.8	0.3	2.7	0.5	23.4	2.1
89.5°	5.2	2.6	0.3	2.7	0.5	23.4	2.1

REPORT NUMBER: P1197005

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	2.0	1.6	0.3	2.2	0.4	18.8	1.4
90.5°	2.0	1.6	0.2	1.8	0.4	18.8	1.4
91°	1.3	1.4	0.2	1.8	0.3	11.8	1.0
91.5°	1.3	1.4	0.3	1.2	0.2	11.8	1.0
92°	1.3	1.4	0.3	1.2	0.2	4.0	0.6
92.5°	1.3	1.3	0.2	1.2	0.2	4.0	0.5
93°	1.2	1.3	0.2	1.2	0.2	1.6	0.4
93.5°	1.2	1.2	0.2	1.2	0.2	1.4	0.5
94°	1.2	1.2	0.2	1.2	0.2	1.4	0.5
94.5°	1.2	1.2	0.2	1.2	0.2	1.3	0.9
95°	1.2	1.2	0.2	1.2	0.2	1.3	0.9
95.5°	1.2	1.2	0.2	1.1	0.2	1.2	0.6
96°	1.2	1.1	0.1	1.1	0.2	1.2	0.6
96.5°	1.1	1.1	0.1	1.1	0.2	1.2	0.4
97°	1.1	1.1	0.1	1.1	0.2	1.2	0.3
97.5°	1.1	1.1	0.1	1.1	0.2	1.2	0.3
98°	1.1	1.0	0.1	1.0	0.2	1.2	0.3
98.5°	1.0	1.0	0.1	1.0	0.3	1.1	0.3
99°	1.0	1.0	0.1	1.0	0.3	1.1	0.3
99.5°	1.0	1.0	0.1	1.0	0.3	1.1	0.3
100°	1.0	1.0	0.1	1.0	0.3	1.1	0.3
100.5°	1.0	1.0	0.1	1.0	0.3	1.1	0.3
101°	1.0	0.9	0.1	1.0	0.3	1.1	0.3
101.5°	1.0	0.9	0.1	0.9	0.3	1.1	0.3
102°	0.9	0.9	0.1	0.9	0.3	1.1	0.3
102.5°	0.9	0.9	0.1	0.9	0.3	1.1	0.3
103°	0.9	0.9	0.1	0.9	0.3	1.0	0.3
103.5°	0.9	0.9	0.1	0.9	0.3	1.1	0.3
104°	0.9	0.9	0.2	0.9	0.3	1.1	0.3
104.5°	0.8	0.9	0.2	0.9	0.3	1.1	0.4
105°	0.8	0.9	0.2	0.9	0.3	1.1	0.4
105.5°	0.8	0.8	0.2	0.9	0.3	1.0	0.4
106°	0.8	0.8	0.2	0.9	0.4	1.0	0.4
106.5°	0.8	0.8	0.2	0.9	0.4	1.0	0.4
107°	0.8	0.8	0.2	0.9	0.4	1.0	0.4
107.5°	0.8	0.8	0.2	0.9	0.4	1.0	0.4
108°	0.8	0.8	0.2	0.9	0.4	1.0	0.4
108.5°	0.7	0.8	0.2	0.9	0.4	1.0	0.4
109°	0.7	0.7	0.2	0.8	0.4	1.0	0.4
109.5°	0.7	0.7	0.2	0.8	0.4	1.0	0.4
110°	0.7	0.7	0.2	0.9	0.4	1.0	0.4
110.5°	0.7	0.7	0.2	0.9	0.4	1.0	0.4
111°	0.7	0.7	0.2	0.8	0.4	1.0	0.5
111.5°	0.7	0.8	0.2	0.8	0.5	1.0	0.5
112°	0.7	0.8	0.2	0.8	0.5	1.0	0.5

REPORT NUMBER: P1197005

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.7	0.7	0.2	0.8	0.5	1.0	0.5
113°	0.7	0.7	0.2	0.8	0.5	1.0	0.5
113.5°	0.7	0.7	0.2	0.8	0.5	1.0	0.5
114°	0.7	0.7	0.3	0.8	0.5	1.0	0.5
114.5°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
115°	0.6	0.7	0.3	0.8	0.5	1.0	0.6
115.5°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
116°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
116.5°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
117°	0.7	0.7	0.3	0.8	0.6	1.0	0.6
117.5°	0.7	0.7	0.3	0.8	0.6	1.0	0.6
118°	0.7	0.7	0.3	0.8	0.6	1.0	0.6
118.5°	0.6	0.7	0.3	0.8	0.6	1.0	0.6
119°	0.6	0.7	0.3	0.8	0.6	1.0	0.7
119.5°	0.6	0.7	0.4	0.8	0.6	1.0	0.7
120°	0.6	0.7	0.4	0.8	0.6	1.0	0.7
120.5°	0.6	0.7	0.4	0.8	0.6	1.0	0.7
121°	0.6	0.7	0.4	0.8	0.6	1.1	0.7
121.5°	0.6	0.7	0.4	0.8	0.6	1.1	0.7
122°	0.6	0.7	0.4	0.8	0.6	1.1	0.7
122.5°	0.6	0.7	0.4	0.8	0.6	1.1	0.7
123°	0.6	0.7	0.4	0.8	0.6	1.1	0.7
123.5°	0.6	0.7	0.4	0.8	0.6	1.1	0.8
124°	0.6	0.7	0.4	0.8	0.6	1.1	0.8
124.5°	0.6	0.7	0.4	0.9	0.7	1.1	0.8
125°	0.6	0.7	0.5	0.9	0.7	1.1	0.8
125.5°	0.6	0.7	0.5	0.8	0.7	1.1	0.8
126°	0.6	0.7	0.5	0.8	0.7	1.1	0.8
126.5°	0.6	0.7	0.5	0.9	0.7	1.1	0.8
127°	0.6	0.7	0.5	0.9	0.7	1.1	0.8
127.5°	0.6	0.7	0.5	0.9	0.7	1.1	0.8
128°	0.6	0.7	0.5	0.9	0.7	1.1	0.8
128.5°	0.6	0.7	0.5	0.9	0.7	1.1	0.8
129°	0.6	0.7	0.5	0.9	0.7	1.1	0.9
129.5°	0.6	0.7	0.5	0.9	0.7	1.1	0.9
130°	0.6	0.8	0.5	0.9	0.7	1.1	0.9
130.5°	0.6	0.8	0.5	0.9	0.8	1.1	0.9
131°	0.7	0.7	0.5	0.9	0.8	1.1	0.9
131.5°	0.7	0.7	0.6	0.9	0.7	1.1	0.9
132°	0.6	0.8	0.6	0.9	0.7	1.1	0.9
132.5°	0.6	0.8	0.6	0.9	0.8	1.1	0.9
133°	0.7	0.8	0.6	0.9	0.8	1.1	0.9
133.5°	0.7	0.8	0.6	0.9	0.8	1.1	0.9
134°	0.7	0.8	0.6	0.9	0.8	1.1	0.9
134.5°	0.7	0.8	0.6	0.9	0.8	1.1	0.9

REPORT NUMBER: P1197005

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1197005

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1197005
CATALOG NUMBER: AWPf28S-BZ-LOW-5000K-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)