

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: P1197146

Luminaire Tested: AWPS28S-BZ-LOW-4000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197146
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: AWPS28S-BZ-LOW-4000K-POSITION 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 2998 lumens
Efficiency: 107.1%
Efficacy: 147.0 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

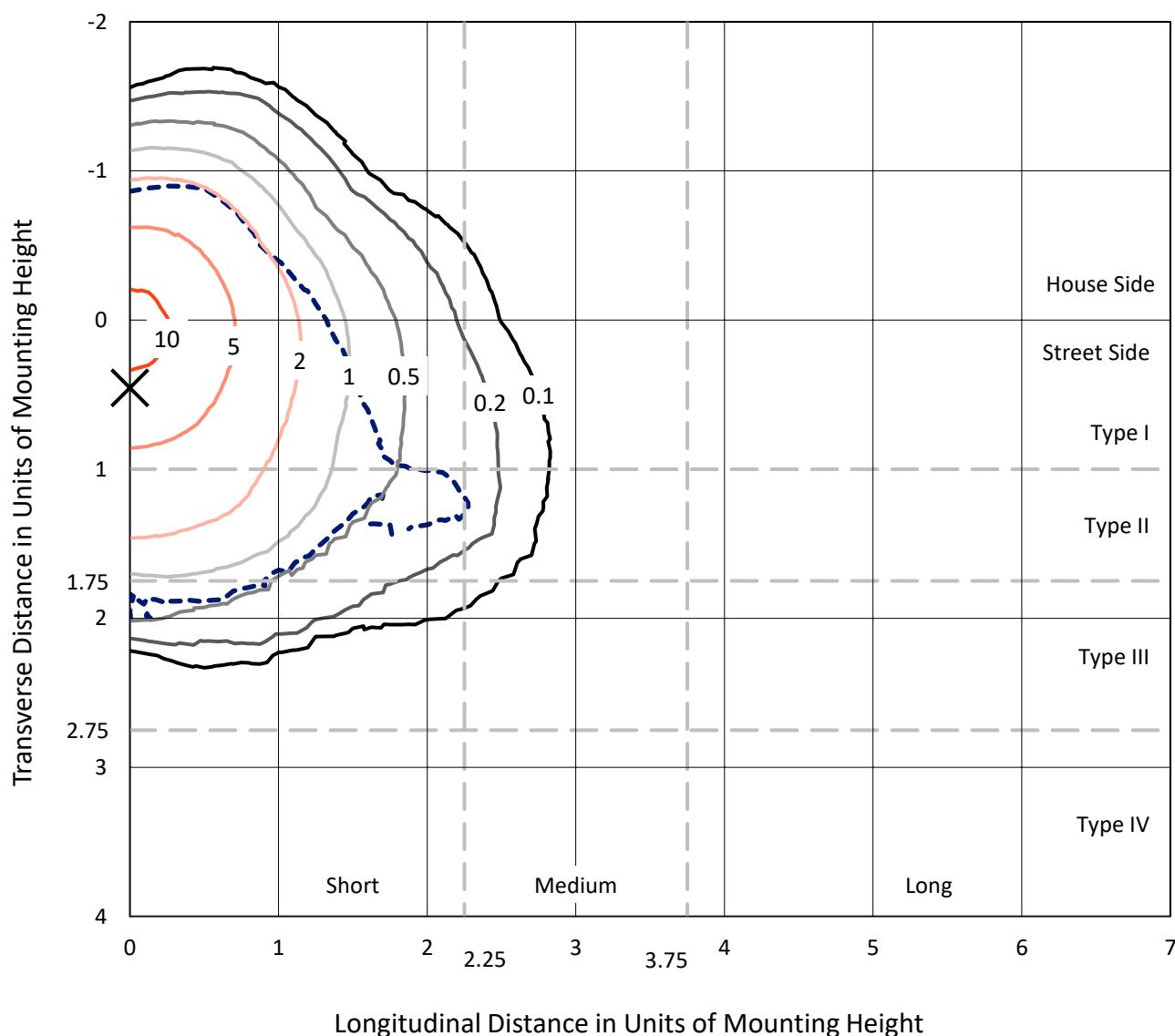
Input Watts (W): 20.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

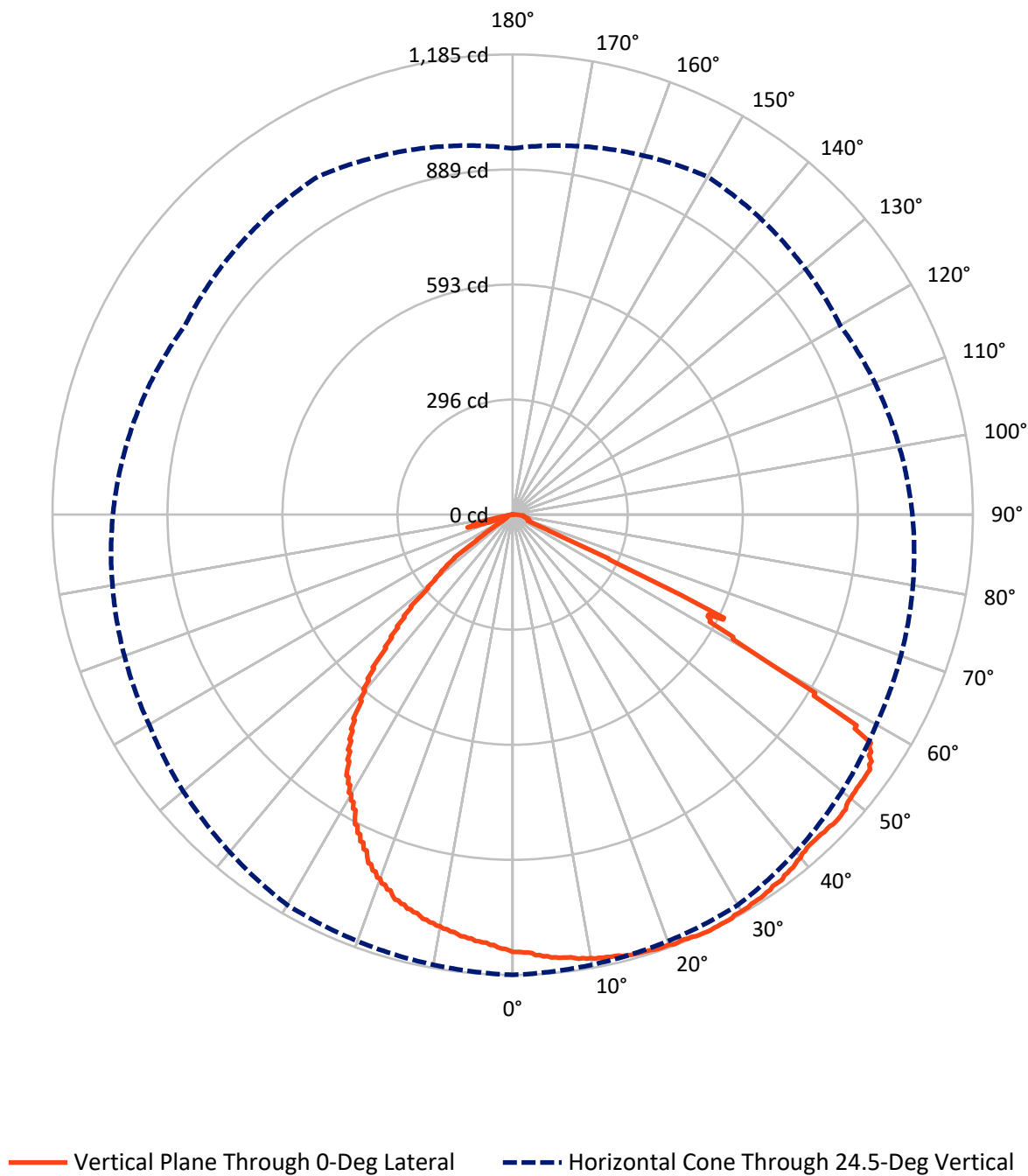


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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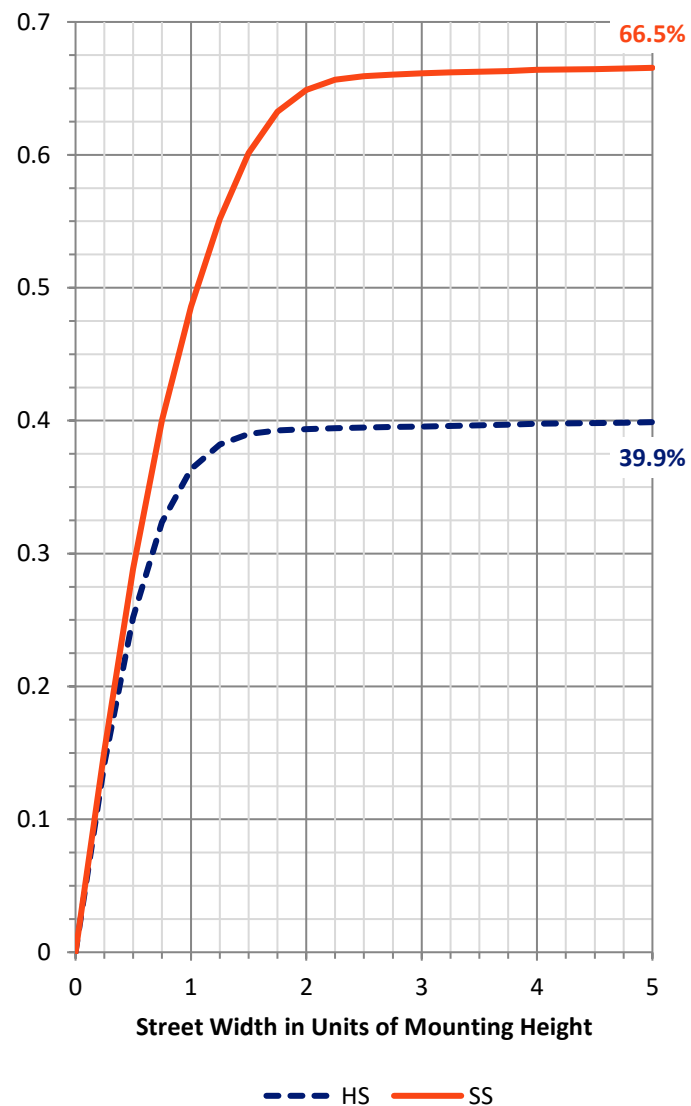
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.4	3.1	1131.4
	% Lamp	40.3	0.1	40.4
Street Side	Lumens	1864.2	2.3	1866.5
	% Lamp	66.6	0.1	66.7
Total	Lumens	2992.6	5.4	2998.0
	% Lamp	106.9	0.2	107.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	107.7	3.6	3.8
10°-20°	312.4	10.4	11.2
20°-30°	482.7	16.1	17.2
30°-40°	589.6	19.7	21.1
40°-50°	606.2	20.2	21.7
50°-60°	532.1	17.7	19.0
60°-70°	275.3	9.2	9.8
70°-80°	69.5	2.3	2.5
80°-90°	17.1	0.6	0.6
90°-100°	1.4	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°	0.6	0.0	0.0
140°-150°	0.5	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°	2992.6	99.8	106.9
0°-180°	2998.0	100.0	107.1

Coefficient of Utilization



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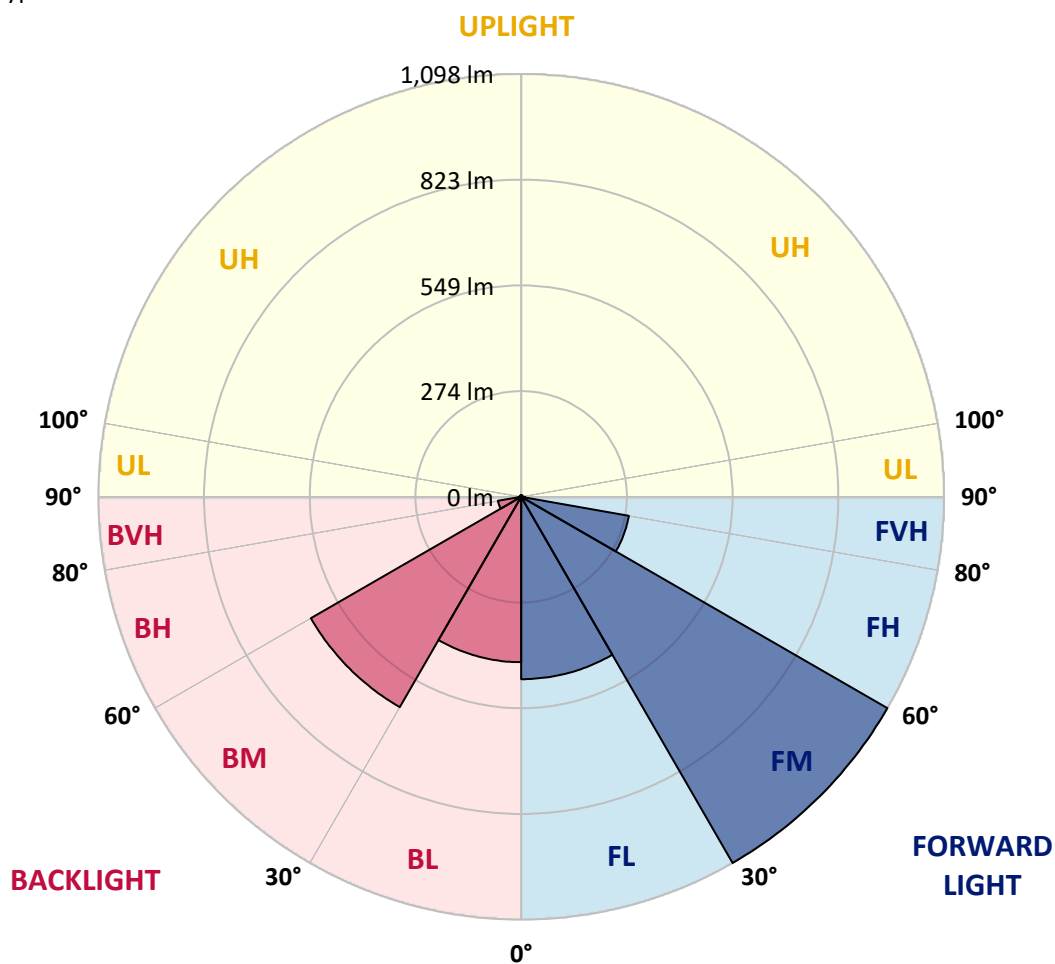
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.4	16.9			
FM	(30°-60°)	1097.6	39.2			
FH	(60°-80°)	283.7	10.1			G0/660
FVH	(80°-90°)	9.5	0.3			G0/10
BL	(0°-30°)	429.3	15.3	B1/500		
BM	(30°-60°)	630.3	22.5	B1/1000		
BH	(60°-80°)	61.1	2.2	B0/110		G0/110
BVH	(80°-90°)	7.6	0.3			G0/10
UL	(90°-100°)	1.4	0.0		U1/10	
UH	(100°-180°)	4.0	0.1		U1/10	
Trapped Light		-198.0	-7.1			

BUG Rating: B1-U1-G0

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1126.1	1126.1	1126.1	1126.1	1126.1	1126.1	1126.1
0.5°	1126.1	1126.1	1126.1	1126.1	1126.1	1126.1	1126.1
1°	1127.8	1133.0	1141.7	1139.0	1131.6	1132.9	1121.4
1.5°	1127.8	1136.8	1141.8	1139.0	1127.7	1132.8	1117.9
2°	1130.1	1136.8	1142.3	1138.4	1127.7	1132.5	1117.9
2.5°	1135.9	1139.6	1142.4	1137.1	1125.7	1132.4	1114.2
3°	1135.9	1139.6	1143.4	1137.1	1125.7	1126.3	1109.3
3.5°	1140.4	1143.0	1143.4	1135.5	1121.5	1126.2	1109.3
4°	1140.5	1146.5	1143.6	1135.5	1121.5	1123.6	1104.4
4.5°	1144.7	1146.6	1143.6	1135.3	1116.3	1123.5	1104.4
5°	1144.8	1148.3	1143.8	1135.3	1116.3	1120.1	1102.1
5.5°	1147.5	1148.4	1143.7	1133.8	1110.7	1120.0	1102.1
6°	1147.5	1151.0	1143.7	1133.8	1110.7	1116.1	1096.4
6.5°	1149.2	1151.0	1143.5	1132.5	1109.6	1112.9	1096.4
7°	1149.2	1153.3	1143.5	1132.5	1104.7	1112.8	1093.6
7.5°	1152.8	1153.3	1143.1	1130.5	1104.6	1107.2	1093.5
8°	1156.3	1155.3	1143.2	1128.0	1102.4	1107.1	1089.5
8.5°	1156.4	1155.3	1141.3	1128.0	1102.4	1103.6	1085.3
9°	1159.5	1157.6	1141.4	1123.9	1096.0	1103.5	1085.3
9.5°	1159.5	1158.8	1140.3	1123.9	1096.0	1098.9	1081.2
10°	1162.5	1158.9	1138.8	1121.6	1090.4	1098.8	1081.2
10.5°	1162.5	1160.8	1138.8	1121.6	1090.4	1093.3	1075.9
11°	1164.5	1160.9	1136.6	1119.1	1085.1	1092.3	1075.9
11.5°	1164.5	1161.9	1136.6	1119.1	1077.8	1092.1	1071.1
12°	1166.4	1161.9	1134.2	1114.9	1077.7	1085.4	1071.0
12.5°	1166.4	1162.9	1134.2	1111.2	1074.5	1085.3	1066.5
13°	1167.9	1162.9	1131.2	1111.1	1074.5	1080.7	1066.4
13.5°	1171.7	1164.5	1131.2	1106.4	1064.6	1080.5	1060.1
14°	1171.7	1164.5	1128.6	1106.4	1064.6	1077.3	1054.8
14.5°	1174.3	1165.4	1128.7	1102.1	1059.2	1077.3	1054.8
15°	1174.3	1165.9	1126.6	1102.1	1059.2	1070.8	1049.9
15.5°	1174.9	1165.9	1123.1	1097.0	1052.9	1070.7	1049.9
16°	1174.9	1166.1	1123.1	1097.0	1052.9	1066.2	1042.3
16.5°	1176.3	1166.1	1119.0	1091.1	1044.7	1059.3	1042.2
17°	1176.3	1166.9	1119.0	1091.1	1038.7	1059.2	1036.3
17.5°	1177.9	1166.9	1116.2	1084.7	1038.6	1054.6	1036.3
18°	1179.3	1167.0	1116.2	1079.7	1031.5	1054.5	1028.3
18.5°	1179.3	1167.0	1111.7	1079.6	1031.5	1048.0	1017.5
19°	1178.7	1166.7	1111.7	1074.1	1021.5	1047.8	1017.5
19.5°	1178.7	1166.7	1107.2	1074.1	1021.5	1043.5	1008.0
20°	1181.2	1166.1	1102.9	1068.4	1015.6	1043.4	1008.0
20.5°	1181.2	1165.2	1102.8	1068.4	1015.6	1034.9	997.5
21°	1179.3	1165.2	1098.1	1059.5	1007.3	1028.3	997.3
21.5°	1179.3	1164.1	1098.1	1059.5	1007.3	1028.3	984.8
22°	1181.0	1164.1	1092.0	1052.7	998.4	1021.7	984.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1181.0	1162.7	1091.9	1052.7	990.7	1021.6	971.4
23°	1183.7	1162.7	1086.6	1046.2	990.6	1014.4	971.3
23.5°	1184.5	1162.0	1086.6	1038.3	981.2	1014.3	958.0
24°	1184.5	1162.0	1081.1	1038.2	981.2	1004.6	943.1
24.5°	1185.1	1160.4	1081.1	1029.4	974.3	1004.5	943.1
25°	1185.1	1159.6	1074.2	1029.3	974.3	995.4	927.8
25.5°	1184.2	1159.6	1067.7	1020.9	962.4	995.2	927.8
26°	1184.2	1157.7	1067.7	1020.9	962.4	984.5	912.0
26.5°	1183.0	1157.7	1061.1	1011.4	952.6	970.3	911.8
27°	1183.0	1155.6	1061.0	1011.4	942.2	970.1	895.1
27.5°	1183.1	1155.6	1054.3	1002.0	942.0	956.1	894.9
28°	1183.1	1153.7	1054.3	991.4	932.3	956.0	879.3
28.5°	1179.0	1153.6	1046.8	991.3	932.3	943.9	861.4
29°	1179.2	1151.6	1046.7	991.3	922.5	943.8	861.4
29.5°	1179.2	1151.6	1040.0	977.9	922.2	925.3	845.5
30°	1179.0	1149.5	1039.9	977.9	911.5	925.1	845.5
30.5°	1178.9	1146.1	1032.4	967.5	911.3	910.8	830.6
31°	1176.0	1146.1	1025.4	967.4	899.1	910.6	830.6
31.5°	1176.0	1142.4	1025.3	957.1	899.0	896.2	812.5
32°	1175.5	1142.4	1017.3	956.9	887.3	877.7	812.2
32.5°	1175.5	1139.0	1017.2	945.1	874.8	877.5	797.2
33°	1174.3	1139.0	1009.8	945.0	874.8	858.8	796.9
33.5°	1171.7	1135.9	1009.7	933.9	857.8	858.5	781.0
34°	1171.7	1135.9	1000.5	922.1	857.6	843.6	761.4
34.5°	1167.5	1132.1	1000.4	922.1	843.6	843.4	761.4
35°	1167.5	1127.4	993.0	909.0	843.4	825.4	739.1
35.5°	1168.2	1127.5	983.4	908.8	826.7	825.1	739.1
36°	1168.1	1123.4	983.3	897.9	826.5	807.7	715.6
36.5°	1162.7	1123.3	974.7	897.7	811.8	788.7	715.3
37°	1162.7	1119.2	974.7	885.7	811.6	788.7	691.8
37.5°	1160.7	1119.2	964.9	885.5	791.6	771.2	691.5
38°	1160.7	1115.1	964.8	873.7	770.5	770.8	667.0
38.5°	1157.4	1115.0	955.1	860.1	770.3	751.4	666.7
39°	1154.0	1111.3	955.1	860.1	770.3	751.4	641.5
39.5°	1153.9	1107.7	945.7	847.1	749.2	735.4	617.3
40°	1148.2	1107.6	945.7	847.1	730.4	735.1	617.3
40.5°	1148.1	1102.6	935.8	832.9	730.2	716.7	591.7
41°	1144.1	1102.5	925.1	832.7	705.7	716.3	591.7
41.5°	1144.1	1096.6	925.0	818.0	705.5	695.1	563.9
42°	1144.2	1096.6	915.0	817.8	680.3	672.4	563.6
42.5°	1144.2	1089.7	914.9	800.6	654.4	672.0	533.8
43°	1143.7	1089.7	904.4	800.4	654.4	648.1	533.4
43.5°	1143.7	1083.7	904.3	786.5	630.6	647.7	503.8
44°	1145.9	1083.7	893.0	769.7	630.3	623.0	473.7
44.5°	1145.1	1079.0	892.9	769.7	603.8	622.6	473.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1145.0	1079.0	882.1	752.4	603.5	598.3	443.4
45.5°	1147.8	1074.1	882.0	752.4	577.8	597.9	443.4
46°	1147.8	1071.0	869.8	734.0	577.5	573.1	413.8
46.5°	1147.4	1071.0	857.6	733.8	552.3	572.6	413.8
47°	1147.4	1069.5	857.6	715.9	552.0	547.0	384.3
47.5°	1145.0	1069.5	844.0	715.7	530.1	520.2	383.8
48°	1145.0	1068.0	844.0	698.1	504.6	519.8	353.8
48.5°	1139.8	1067.9	828.2	697.8	504.6	491.2	353.4
49°	1136.4	1067.8	828.2	678.6	480.7	490.8	318.3
49.5°	1136.5	1067.8	813.5	659.4	480.4	461.7	287.5
50°	1134.2	1067.6	813.5	659.4	456.7	461.3	287.5
50.5°	1134.2	1068.5	797.8	640.5	456.4	430.8	259.3
51°	1132.3	1068.5	781.7	640.3	431.9	430.4	259.3
51.5°	1132.3	1068.5	781.7	621.4	431.5	399.7	236.5
52°	1131.5	1068.4	766.1	621.1	404.7	369.9	236.0
52.5°	1131.5	1069.8	766.1	602.1	404.3	369.9	215.2
53°	1130.6	1069.8	751.4	601.8	375.2	343.5	214.8
53.5°	1130.2	1071.7	751.5	583.1	345.2	343.0	187.1
54°	1130.4	1071.7	734.1	563.8	344.8	317.0	186.6
54.5°	1121.4	1076.1	734.2	563.8	312.7	316.5	149.1
55°	1121.9	1076.1	719.1	545.0	312.4	291.6	113.7
55.5°	1107.0	1088.9	719.4	545.0	280.1	291.0	113.7
56°	1107.1	1113.8	704.2	525.4	279.7	259.6	86.9
56.5°	1094.4	1113.6	690.1	525.2	246.7	259.0	86.9
57°	1094.4	1138.4	690.5	505.8	246.3	231.9	57.2
57.5°	1038.7	1137.5	678.0	505.6	217.5	208.6	56.8
58°	1038.7	1161.6	678.4	486.0	193.0	208.2	31.5
58.5°	904.8	1159.4	665.4	485.8	193.0	186.5	31.1
59°	904.8	1126.1	664.8	465.9	174.1	186.2	24.7
59.5°	753.7	1123.5	652.8	447.7	173.7	154.9	24.2
60°	651.7	1012.2	650.9	447.7	155.8	154.5	23.0
60.5°	649.8	1012.2	639.6	428.3	155.5	115.1	21.7
61°	577.8	863.0	637.1	428.3	128.4	114.6	21.7
61.5°	577.1	724.0	622.1	406.8	128.1	82.4	20.4
62°	566.5	723.8	612.6	406.6	88.1	81.7	20.4
62.5°	566.5	615.4	610.8	384.9	87.8	61.1	18.9
63°	605.8	616.1	604.9	384.8	61.5	43.5	18.6
63.5°	605.8	511.1	603.1	358.4	51.0	43.3	17.2
64°	481.2	509.1	604.2	329.0	50.5	32.8	17.0
64.5°	274.8	544.9	604.9	329.0	46.2	32.7	16.5
65°	271.8	544.9	618.6	295.3	45.6	28.7	16.5
65.5°	101.1	493.6	617.7	295.3	42.5	28.6	16.5
66°	98.9	493.6	634.7	257.2	41.8	26.6	16.6
66.5°	48.2	492.8	651.2	257.5	39.1	26.6	16.6
67°	47.3	326.1	648.3	221.2	38.5	25.4	16.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	42.2	326.1	645.4	221.1	36.7	24.4	16.2
68°	42.2	150.7	642.5	190.0	36.2	24.4	16.0
68.5°	45.4	150.7	620.0	189.7	34.4	23.5	16.0
69°	45.4	54.0	618.4	162.0	32.1	23.5	15.4
69.5°	48.1	54.0	575.4	133.4	31.6	22.4	15.4
70°	43.8	34.5	575.0	133.4	29.3	22.4	15.1
70.5°	43.8	34.5	514.7	108.5	28.9	21.3	15.9
71°	43.5	33.8	514.7	108.5	26.4	21.2	15.9
71.5°	43.4	37.3	431.6	92.0	26.2	20.3	28.4
72°	41.2	37.3	345.3	90.5	23.8	20.3	28.4
72.5°	41.2	36.4	345.3	80.6	23.6	19.5	66.1
73°	39.5	36.3	270.5	61.2	21.2	18.8	66.1
73.5°	39.5	35.5	270.5	61.2	19.1	18.8	103.2
74°	41.8	35.6	207.8	60.1	19.1	17.9	103.2
74.5°	41.8	31.8	207.7	53.1	17.4	17.8	120.6
75°	42.6	31.8	155.5	46.9	17.3	16.0	107.7
75.5°	41.3	31.7	155.5	46.9	16.1	16.0	107.7
76°	41.3	31.7	110.8	41.4	16.1	13.9	99.7
76.5°	36.9	33.3	110.8	41.4	14.8	13.9	99.7
77°	36.9	35.7	79.0	36.4	14.7	12.6	83.2
77.5°	32.7	35.6	62.2	36.1	13.1	12.6	83.2
78°	32.7	37.9	62.2	30.7	13.0	11.9	64.9
78.5°	30.0	37.9	57.0	30.7	11.3	11.8	64.9
79°	30.0	38.2	57.1	25.0	9.9	11.8	42.9
79.5°	29.2	38.2	54.8	19.1	9.8	11.3	42.9
80°	30.2	35.9	54.7	19.1	8.9	11.3	28.1
80.5°	30.1	35.9	52.6	15.9	8.9	11.1	20.1
81°	29.9	31.7	52.5	15.9	7.8	11.1	20.1
81.5°	29.8	27.5	49.8	13.0	7.7	17.3	14.2
82°	29.3	27.5	44.9	12.9	7.2	17.3	14.2
82.5°	29.2	23.5	44.8	10.9	7.1	35.7	10.1
83°	28.4	23.5	37.1	10.8	6.5	44.9	10.3
83.5°	28.4	19.3	37.0	9.3	6.5	44.9	7.7
84°	25.8	19.3	27.8	9.2	5.5	40.1	7.7
84.5°	25.8	14.7	27.8	8.0	4.1	40.1	6.1
85°	21.6	14.6	14.1	6.6	4.1	37.7	6.1
85.5°	17.8	10.6	14.0	6.6	2.8	37.7	4.9
86°	17.8	10.6	14.0	5.4	2.8	34.6	3.8
86.5°	14.9	8.1	14.0	5.4	2.3	34.6	3.8
87°	14.9	5.8	0.4	4.3	2.2	32.2	3.0
87.5°	12.0	5.7	0.4	4.3	1.5	32.2	3.0
88°	12.0	3.7	0.2	3.4	1.5	29.6	2.1
88.5°	8.9	3.7	0.2	3.4	0.8	26.4	2.1
89°	8.9	2.3	0.2	2.7	0.4	26.4	1.3
89.5°	5.5	2.3	0.2	2.7	0.4	21.7	1.2

REPORT NUMBER: P1197146

CATALOG NUMBER: AWPS28S-BZ-LOW-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	2.1	1.6	0.2	2.2	0.3	21.7	0.7
90.5°	2.1	1.6	0.2	1.8	0.3	15.7	0.5
91°	1.5	1.4	0.2	1.8	0.3	15.7	0.5
91.5°	1.5	1.4	0.2	1.3	0.3	7.1	0.5
92°	1.4	1.4	0.2	1.3	0.2	7.1	0.5
92.5°	1.4	1.3	0.1	1.2	0.2	2.2	0.4
93°	1.4	1.3	0.1	1.2	0.2	2.2	0.4
93.5°	1.4	1.3	0.1	1.2	0.2	1.5	0.5
94°	1.3	1.3	0.1	1.2	0.2	1.5	0.5
94.5°	1.3	1.2	0.2	1.2	0.2	1.5	0.7
95°	1.3	1.2	0.2	1.1	0.2	1.4	0.7
95.5°	1.2	1.2	0.1	1.1	0.2	1.4	0.6
96°	1.2	1.2	0.1	1.1	0.2	1.3	0.4
96.5°	1.2	1.1	0.1	1.1	0.3	1.3	0.4
97°	1.2	1.1	0.1	1.1	0.3	1.2	0.4
97.5°	1.1	1.1	0.1	1.1	0.3	1.2	0.4
98°	1.1	1.0	0.1	1.1	0.3	1.2	0.3
98.5°	1.1	1.0	0.1	1.1	0.3	1.2	0.3
99°	1.1	1.0	0.1	1.0	0.3	1.2	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	1.0	0.1	1.0	0.3	1.1	0.3
101.5°	1.0	1.0	0.1	1.0	0.3	1.1	0.3
102°	1.0	0.9	0.2	1.0	0.3	1.1	0.3
102.5°	1.0	0.9	0.2	0.9	0.3	1.1	0.4
103°	0.9	0.9	0.2	0.9	0.3	1.1	0.4
103.5°	0.9	0.9	0.2	0.9	0.3	1.1	0.4
104°	0.9	0.9	0.2	0.9	0.3	1.1	0.4
104.5°	0.9	0.9	0.2	0.9	0.4	1.1	0.4
105°	0.9	0.9	0.2	0.9	0.4	1.1	0.4
105.5°	0.9	0.8	0.2	0.9	0.4	1.1	0.4
106°	0.9	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°	0.8	0.8	0.2	0.9	0.4	1.0	0.4
109°	0.8	0.7	0.2	0.9	0.4	1.0	0.4
109.5°	0.8	0.7	0.2	0.9	0.4	1.0	0.4
110°	0.8	0.8	0.2	0.8	0.5	1.0	0.5
110.5°	0.8	0.8	0.2	0.8	0.5	1.0	0.5
111°	0.7	0.7	0.2	0.8	0.5	1.0	0.5
111.5°	0.7	0.7	0.2	0.8	0.5	1.0	0.5
112°	0.7	0.7	0.2	0.8	0.5	1.0	0.5

REPORT NUMBER: P1197146

CATALOG NUMBER: AWPS28S-BZ-LOW-4000K-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	0.3	0.8	0.5	1.0	0.5
113.5°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
114°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
114.5°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
115°	0.7	0.7	0.3	0.8	0.5	1.0	0.6
115.5°	0.7	0.7	0.3	0.8	0.6	1.0	0.6
116°	0.7	0.7	0.3	0.8	0.6	1.0	0.6
116.5°	0.7	0.7	0.3	0.8	0.6	1.0	0.6
117°	0.7	0.7	0.3	0.8	0.6	1.0	0.7
117.5°	0.6	0.7	0.3	0.8	0.6	1.0	0.7
118°	0.6	0.7	0.3	0.8	0.6	1.0	0.7
118.5°	0.7	0.7	0.3	0.8	0.6	1.0	0.7
119°	0.7	0.7	0.3	0.8	0.6	1.0	0.7
119.5°	0.6	0.7	0.3	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	1.1	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	0.9	0.6	1.1	0.7
122°	0.6	0.7	0.4	0.9	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	0.9	0.6	1.1	0.7
124°	0.6	0.7	0.4	0.9	0.6	1.1	0.7
124.5°	0.6	0.7	0.4	0.9	0.6	1.1	0.7
125°	0.6	0.7	0.4	0.9	0.6	1.1	0.7
125.5°	0.6	0.7	0.4	0.9	0.6	1.1	0.8
126°	0.6	0.7	0.4	0.9	0.6	1.1	0.8
126.5°	0.6	0.7	0.5	0.9	0.6	1.1	0.8
127°	0.6	0.7	0.5	0.9	0.6	1.1	0.8
127.5°	0.6	0.7	0.5	0.9	0.6	1.1	0.8
128°	0.6	0.7	0.5	0.9	0.6	1.1	0.8
128.5°	0.6	0.7	0.5	0.9	0.6	1.1	0.8
129°	0.6	0.7	0.5	0.9	0.6	1.1	0.8
129.5°	0.6	0.7	0.5	0.9	0.7	1.1	0.8
130°	0.6	0.8	0.5	0.9	0.6	1.1	0.8
130.5°	0.7	0.8	0.5	0.9	0.6	1.1	0.8
131°	0.7	0.8	0.5	0.9	0.7	1.1	0.8
131.5°	0.7	0.8	0.5	0.9	0.7	1.1	0.8
132°	0.7	0.8	0.6	0.9	0.7	1.1	0.8
132.5°	0.7	0.8	0.6	0.9	0.7	1.1	0.8
133°	0.7	0.8	0.6	0.9	0.7	1.1	0.8
133.5°	0.7	0.8	0.6	0.9	0.7	1.1	0.9
134°	0.7	0.8	0.6	0.9	0.7	1.1	0.9
134.5°	0.7	0.8	0.6	0.9	0.7	1.1	0.9

REPORT NUMBER: P1197146

CATALOG NUMBER: AWPS28S-BZ-LOW-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1197146

CATALOG NUMBER: AWPS28S-BZ-LOW-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1197146
CATALOG NUMBER: AWPS28S-BZ-LOW-4000K-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)