

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: P1197168

Luminaire Tested: AWPS28S-BZ-MID-5000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LDS)
Test Lab: INNOVATION CENTER
Issue Date: 10/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: AWPS28S-BZ-MID-5000K-POSITION 30
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3521 (1 lamp)
Luminaire Lumens: 3374.9 lumens
Efficiency: 95.9%
Efficacy: 126.9 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 - U3 - G3

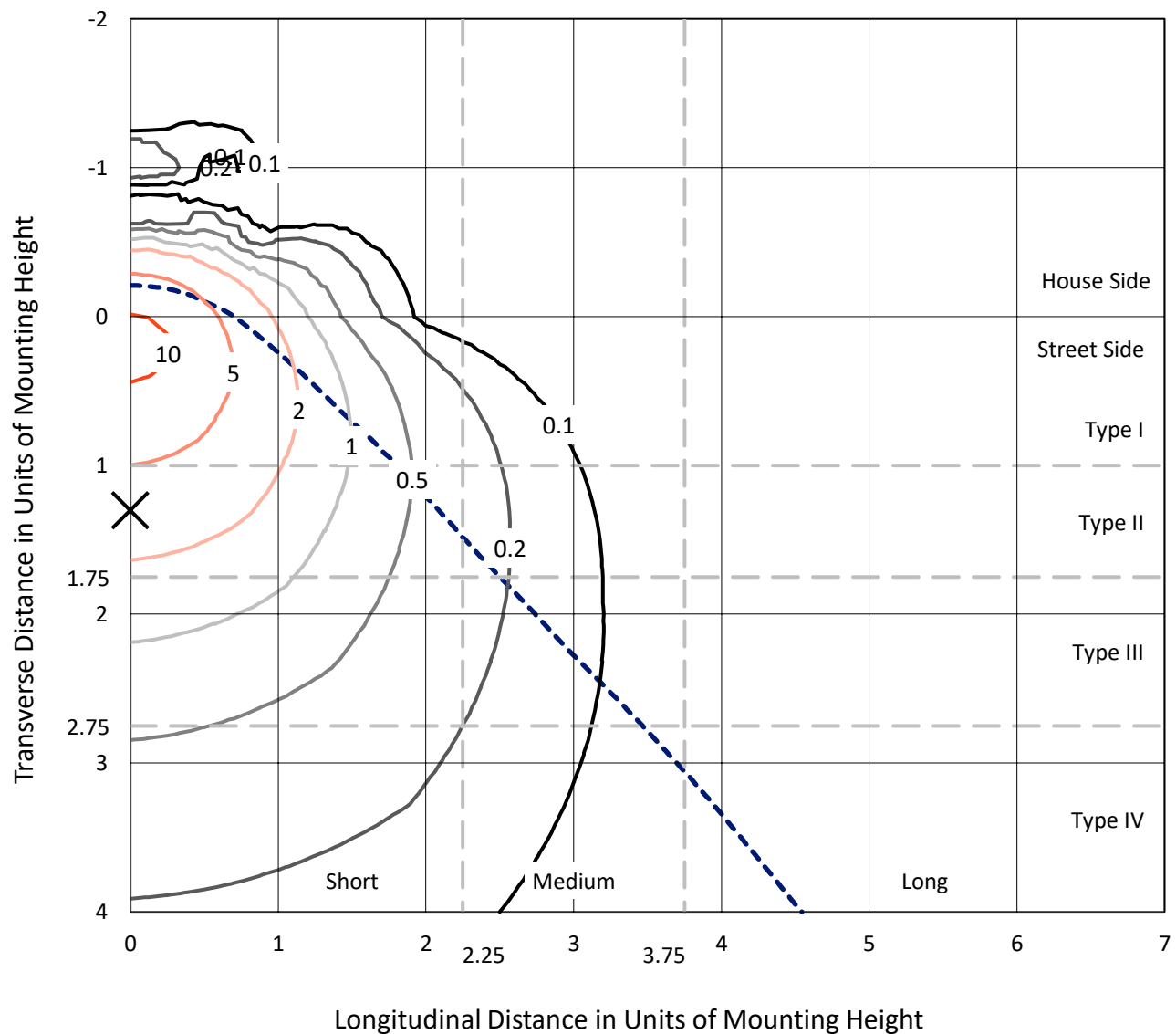
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

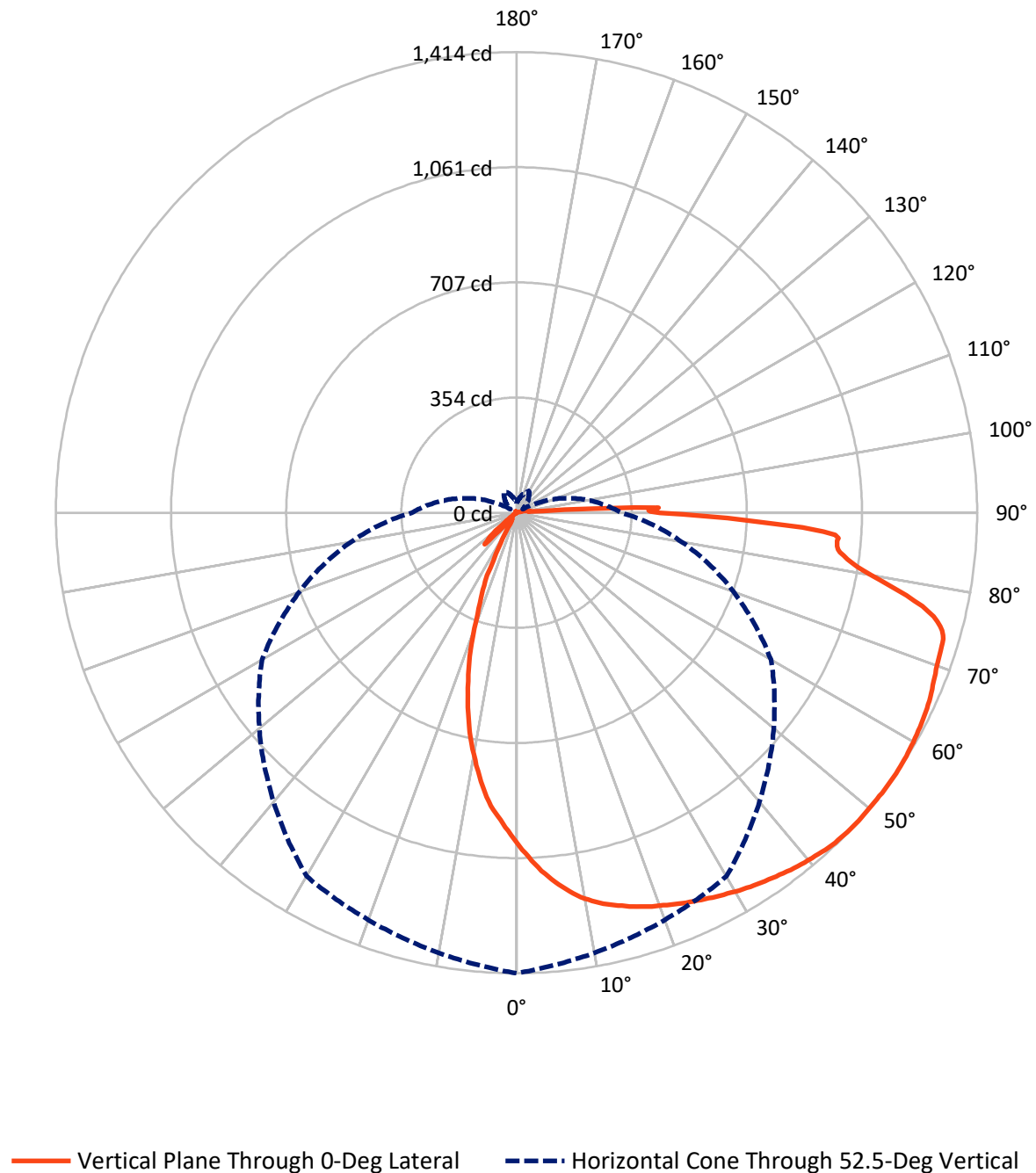


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

Luminous Intensity Polar Plot



REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

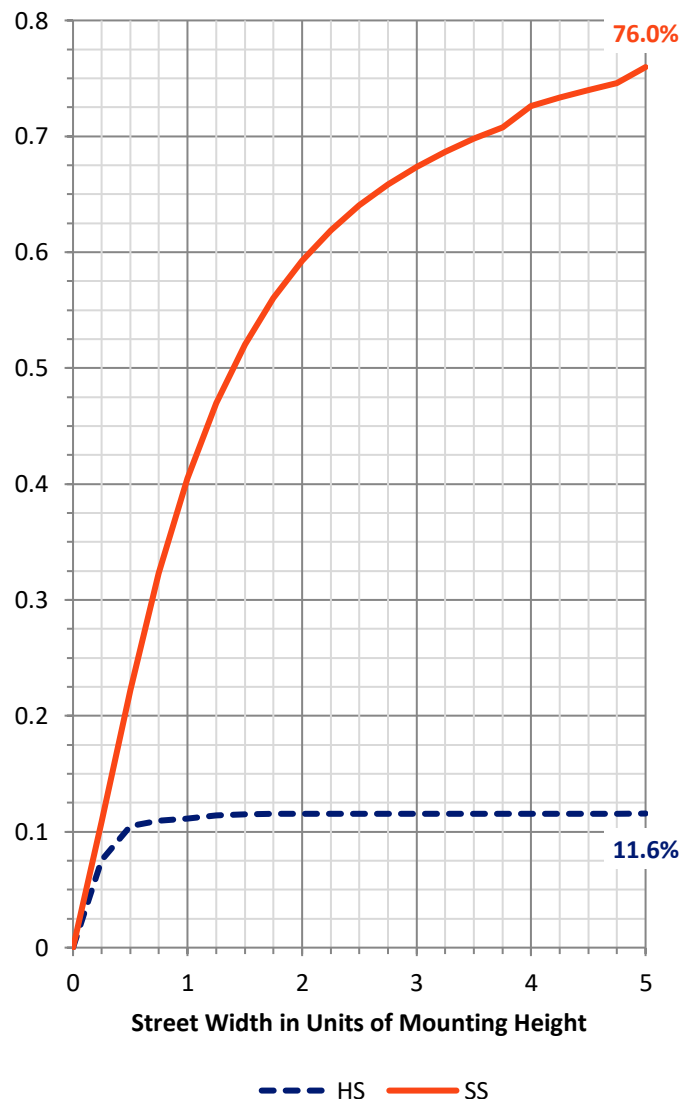
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.0	7.8	420.9
	% Lamp	11.7	0.2	12.0
Street Side	Lumens	2896.0	58.0	2954.0
	% Lamp	82.2	1.6	83.9
Total	Lumens	3309.0	65.9	3374.9
	% Lamp	94.0	1.9	95.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	96.7	2.9	2.7
10°-20°	267.7	7.9	7.6
20°-30°	375.2	11.1	10.7
30°-40°	427.6	12.7	12.1
40°-50°	463.0	13.7	13.1
50°-60°	476.5	14.1	13.5
60°-70°	454.7	13.5	12.9
70°-80°	427.5	12.7	12.1
80°-90°	320.1	9.5	9.1
90°-100°	54.2	1.6	1.5
100°-110°	4.3	0.1	0.1
110°-120°	1.4	0.0	0.0
120°-130°	1.4	0.0	0.0
130°-140°	1.4	0.0	0.0
140°-150°	1.3	0.0	0.0
150°-160°	1.0	0.0	0.0
160°-170°	0.7	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	3309.0	98.0	94.0
0°-180°	3374.9	100.0	95.9

Coefficient of Utilization



REPORT NUMBER: P1197168

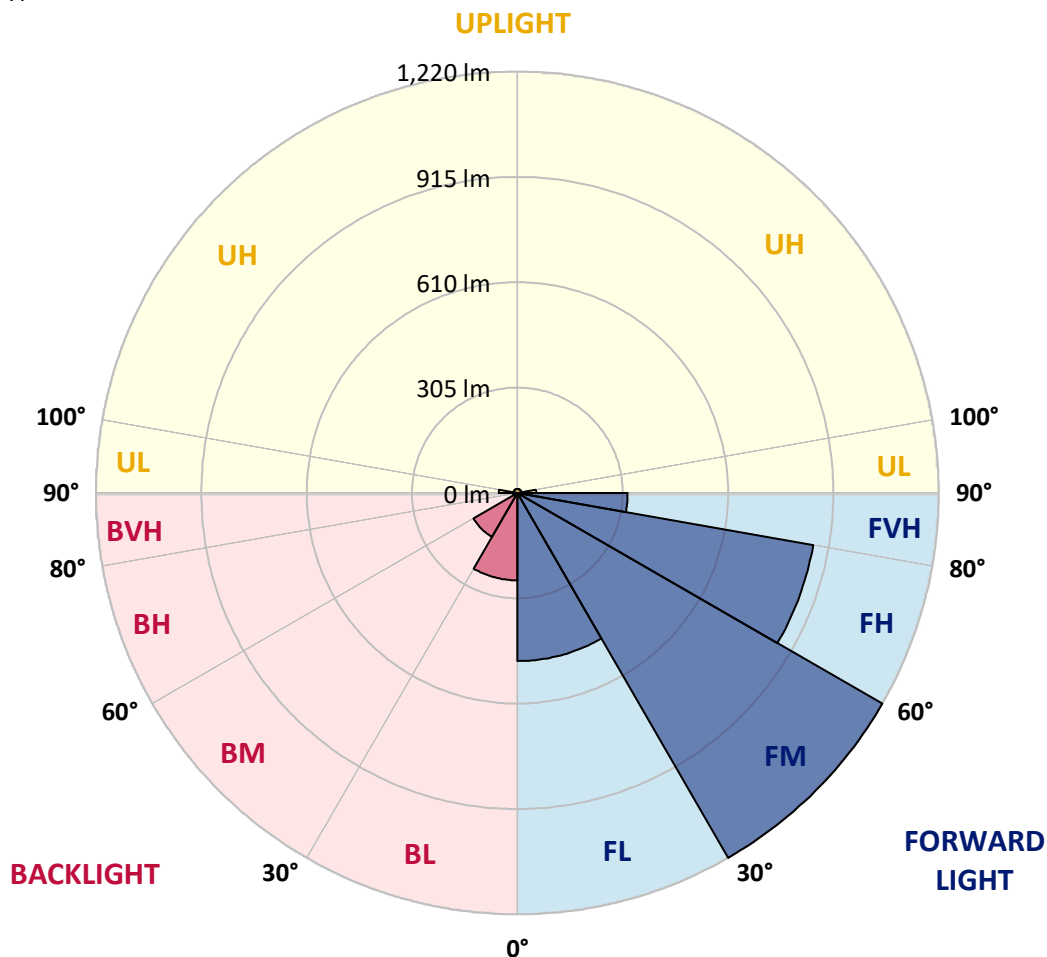
CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.6	13.8			
FM	(30°-60°)	1220.3	34.7			
FH	(60°-80°)	869.9	24.7			G1/1800
FVH	(80°-90°)	319.1	9.1			G3/500
BL	(0°-30°)	253.0	7.2	B1/500		
BM	(30°-60°)	146.8	4.2	B0/220		
BH	(60°-80°)	12.2	0.3	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	54.2	1.5		U3/500	
UH	(100°-180°)	11.7	0.3		U2/50	
Trapped Light		146.1	4.1			

BUG Rating: B1-U3-G3

Type IV Short



REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2
0.5°	1034.9	1033.3	1029.1	1023.0	1017.4	1013.1	1012.1
1°	1046.5	1043.1	1035.0	1023.0	1011.6	1003.1	1000.4
1.5°	1057.7	1052.9	1040.8	1022.7	1005.8	993.2	989.0
2°	1069.1	1062.4	1046.0	1022.4	1000.0	983.3	977.4
2.5°	1080.6	1072.2	1051.2	1022.0	994.1	973.2	966.4
3°	1091.3	1081.3	1056.5	1021.4	988.0	963.4	955.0
3.5°	1102.3	1090.4	1062.0	1020.9	981.5	953.5	944.4
4°	1112.3	1099.4	1067.0	1020.1	975.3	944.1	933.9
4.5°	1121.8	1107.7	1071.5	1019.3	969.1	935.3	923.9
5°	1131.1	1115.3	1076.5	1018.1	962.8	926.1	914.2
5.5°	1140.5	1123.3	1081.0	1016.9	956.2	917.2	903.1
6°	1149.4	1131.4	1085.6	1015.7	949.6	906.7	890.6
6.5°	1157.9	1138.4	1089.8	1014.4	943.2	895.6	877.4
7°	1166.4	1145.5	1094.0	1013.2	936.8	883.7	862.7
7.5°	1174.7	1152.4	1097.9	1011.5	930.3	870.5	847.6
8°	1182.0	1159.2	1101.5	1009.8	924.4	856.9	832.4
8.5°	1189.3	1165.7	1105.1	1007.8	918.1	843.6	818.0
9°	1196.4	1171.9	1108.7	1006.0	911.3	830.7	802.2
9.5°	1203.0	1177.9	1112.6	1004.0	904.9	816.3	785.8
10°	1208.7	1183.6	1116.2	1001.9	897.7	801.9	770.2
10.5°	1214.5	1189.3	1119.4	999.7	890.2	787.3	753.8
11°	1219.6	1194.2	1122.8	997.3	882.1	772.8	737.8
11.5°	1224.5	1198.9	1125.9	994.8	874.1	758.1	722.1
12°	1229.4	1203.7	1129.0	992.0	865.2	743.5	707.0
12.5°	1233.9	1207.8	1131.7	989.1	856.2	728.9	689.9
13°	1238.0	1211.5	1134.2	986.0	846.3	714.9	672.3
13.5°	1242.1	1214.9	1136.6	982.9	836.4	699.9	653.3
14°	1246.2	1218.1	1138.9	979.7	826.3	684.6	634.2
14.5°	1249.8	1221.2	1141.0	976.2	816.0	667.6	615.6
15°	1253.7	1224.3	1142.8	972.9	805.8	651.0	595.8
15.5°	1257.6	1227.4	1144.4	969.1	795.2	633.6	577.2
16°	1261.4	1230.6	1145.8	965.2	784.1	615.8	557.5
16.5°	1264.9	1233.1	1147.1	961.0	773.4	597.5	537.6
17°	1268.3	1235.8	1148.3	956.4	762.6	579.4	519.1
17.5°	1271.5	1238.5	1149.2	952.0	751.2	561.0	500.6
18°	1274.8	1240.9	1149.8	947.1	739.9	542.8	482.6
18.5°	1278.7	1243.0	1150.3	942.3	727.9	524.9	463.3
19°	1281.6	1245.2	1150.5	937.4	716.1	506.9	444.0
19.5°	1284.2	1247.6	1150.5	932.5	704.1	490.0	425.1
20°	1287.2	1249.5	1150.7	927.4	692.5	473.1	401.8
20.5°	1290.3	1251.4	1150.7	922.5	681.3	455.9	376.8
21°	1293.2	1253.4	1150.5	916.9	670.1	438.9	354.0
21.5°	1296.3	1255.5	1150.0	911.0	658.1	420.7	334.1
22°	1299.1	1256.9	1149.4	905.1	645.9	402.8	315.8

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1302.3	1258.7	1148.6	898.8	632.8	380.9	299.2
23°	1305.6	1260.2	1147.6	892.4	618.8	358.8	284.3
23.5°	1308.5	1261.8	1146.1	886.0	604.2	337.8	271.2
24°	1311.3	1263.6	1144.7	879.4	590.6	319.3	258.1
24.5°	1314.0	1265.0	1143.1	873.0	576.6	302.6	245.0
25°	1317.0	1267.0	1141.8	866.6	561.1	287.8	231.9
25.5°	1320.0	1268.7	1139.9	859.9	545.7	275.3	212.7
26°	1323.0	1270.5	1137.7	853.1	530.2	262.9	188.5
26.5°	1326.0	1272.1	1135.2	846.1	514.7	250.4	162.2
27°	1328.9	1273.5	1132.6	839.4	499.2	238.0	140.8
27.5°	1331.6	1274.9	1129.7	832.5	484.6	224.4	123.1
28°	1334.6	1276.6	1126.6	825.8	469.3	207.8	106.8
28.5°	1337.3	1278.1	1123.3	819.0	454.1	185.7	90.4
29°	1340.1	1279.4	1120.0	811.5	439.3	162.3	70.9
29.5°	1343.1	1281.0	1117.0	803.8	424.4	140.8	52.0
30°	1346.2	1282.1	1113.5	795.8	409.9	122.5	39.1
30.5°	1348.8	1283.3	1110.2	788.3	395.6	107.4	33.9
31°	1351.3	1284.9	1106.8	780.4	381.5	92.7	31.8
31.5°	1354.1	1286.0	1103.4	772.8	367.4	76.8	30.7
32°	1356.6	1286.9	1100.1	764.8	353.7	59.8	29.9
32.5°	1359.3	1288.2	1096.6	756.3	340.8	46.0	29.2
33°	1361.7	1289.3	1093.4	747.5	328.2	37.3	28.5
33.5°	1364.4	1290.3	1090.1	738.6	314.7	33.5	27.6
34°	1366.9	1291.3	1086.6	729.8	302.0	31.8	26.7
34.5°	1369.5	1292.2	1082.8	720.6	289.5	30.6	25.7
35°	1372.3	1293.0	1079.1	710.6	277.5	29.7	24.6
35.5°	1374.7	1293.8	1075.6	701.0	264.5	29.1	23.7
36°	1377.3	1294.5	1072.1	691.2	250.8	28.5	23.2
36.5°	1380.0	1295.2	1068.2	681.2	236.9	27.8	22.8
37°	1382.3	1295.7	1064.4	670.9	224.1	27.2	22.7
37.5°	1384.6	1296.2	1060.2	660.7	211.8	26.7	22.5
38°	1386.8	1296.9	1056.0	650.0	199.8	26.2	22.1
38.5°	1388.8	1297.4	1052.0	639.1	187.1	25.9	21.7
39°	1391.2	1297.9	1047.8	628.5	172.0	25.4	21.3
39.5°	1393.5	1298.6	1043.7	617.9	154.0	24.9	20.9
40°	1395.5	1298.9	1039.1	606.6	133.4	24.0	20.4
40.5°	1397.3	1298.9	1034.5	595.6	112.0	23.2	19.9
41°	1399.4	1299.0	1029.8	584.4	91.8	22.5	19.6
41.5°	1401.7	1299.5	1025.4	573.4	75.7	21.6	19.4
42°	1403.7	1300.1	1021.4	562.3	63.7	20.7	19.6
42.5°	1405.2	1300.6	1016.6	551.2	55.2	19.8	20.6
43°	1407.1	1300.7	1011.7	540.3	49.6	19.2	23.3
43.5°	1408.4	1300.5	1007.3	529.6	45.6	18.6	33.6
44°	1409.2	1300.4	1002.1	518.5	42.3	18.0	57.0
44.5°	1410.2	1300.2	997.1	507.7	39.8	17.3	78.4

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1411.2	1299.9	991.9	496.6	37.6	16.8	95.7
45.5°	1411.9	1299.2	986.6	485.7	36.0	16.3	124.6
46°	1412.7	1298.6	981.1	474.2	34.4	16.0	137.9
46.5°	1413.2	1298.4	975.7	462.8	32.5	15.8	128.6
47°	1413.6	1298.1	970.3	451.1	30.6	15.7	123.5
47.5°	1413.8	1297.7	964.7	439.9	29.4	15.5	120.6
48°	1413.7	1297.3	958.9	428.8	28.3	15.4	115.3
48.5°	1413.8	1296.6	953.1	417.3	27.4	15.4	107.9
49°	1413.4	1296.4	946.9	405.4	26.5	16.0	96.4
49.5°	1413.3	1296.0	940.8	393.6	25.7	17.6	84.8
50°	1413.4	1295.1	934.7	382.0	25.0	23.7	72.4
50.5°	1413.7	1294.3	928.3	370.1	24.3	35.8	58.6
51°	1413.8	1293.1	921.8	358.1	23.5	48.9	46.7
51.5°	1413.8	1291.9	915.4	346.0	22.7	53.8	38.3
52°	1414.3	1290.3	908.6	334.3	22.0	64.2	32.4
52.5°	1414.4	1289.1	901.8	321.9	21.3	76.0	27.7
53°	1414.3	1287.1	894.8	309.1	20.6	70.0	23.3
53.5°	1414.3	1285.5	887.8	296.5	20.0	65.0	19.5
54°	1414.4	1284.1	881.0	283.7	19.5	62.4	16.0
54.5°	1414.2	1282.8	874.0	270.3	18.9	60.4	13.4
55°	1414.0	1281.9	866.9	256.8	18.5	58.9	11.4
55.5°	1413.7	1280.9	859.7	243.4	17.9	57.1	10.0
56°	1412.9	1279.7	852.3	229.9	17.5	54.9	8.8
56.5°	1412.6	1278.8	845.3	216.0	17.1	52.5	7.9
57°	1411.9	1277.7	837.7	201.8	16.7	49.7	7.2
57.5°	1411.2	1276.8	830.2	188.5	16.3	46.6	6.6
58°	1410.2	1275.9	823.2	176.4	15.8	43.4	6.1
58.5°	1409.2	1274.6	815.6	165.4	15.3	40.0	5.6
59°	1408.3	1273.5	807.7	156.3	14.8	36.5	5.2
59.5°	1407.3	1272.0	800.2	148.7	14.1	33.0	4.6
60°	1406.0	1270.8	792.7	143.3	13.5	29.2	4.1
60.5°	1404.5	1269.0	785.8	139.8	12.9	25.5	3.4
61°	1403.7	1267.1	778.4	137.2	12.4	22.2	2.9
61.5°	1402.7	1264.8	771.4	129.0	11.8	19.2	2.5
62°	1402.0	1262.3	763.8	112.4	10.9	16.4	2.4
62.5°	1400.8	1260.1	756.0	92.9	10.3	13.2	2.3
63°	1399.4	1257.5	748.7	78.1	9.7	9.2	2.2
63.5°	1397.9	1254.4	741.1	70.5	9.1	4.8	2.1
64°	1396.5	1251.5	733.8	67.0	8.7	2.4	1.9
64.5°	1394.5	1248.6	725.7	64.7	8.3	1.7	1.6
65°	1392.7	1246.0	717.0	62.6	7.8	1.5	1.4
65.5°	1391.1	1242.9	708.9	60.5	7.4	1.5	1.2
66°	1388.8	1240.1	700.5	58.6	7.0	1.5	1.2
66.5°	1386.2	1237.4	692.2	56.9	6.6	1.5	1.2
67°	1383.8	1234.8	684.4	55.3	6.3	1.4	1.1

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1381.4	1232.6	676.3	53.8	5.9	1.2	1.0
68°	1379.6	1230.9	668.1	52.4	5.4	1.0	0.9
68.5°	1377.5	1228.7	660.0	51.1	4.9	0.8	0.8
69°	1375.3	1226.4	651.7	50.1	4.5	0.8	0.7
69.5°	1373.7	1223.8	643.4	49.1	3.9	0.7	0.7
70°	1371.9	1221.2	635.5	48.3	3.3	0.7	0.7
70.5°	1371.0	1218.8	627.4	47.4	3.0	0.7	0.7
71°	1370.5	1216.7	619.1	46.5	2.7	0.7	0.7
71.5°	1369.6	1214.2	611.4	45.8	2.4	0.7	0.7
72°	1368.2	1212.0	604.1	45.0	2.1	0.7	0.7
72.5°	1367.6	1209.8	596.4	44.1	1.9	0.6	0.7
73°	1366.6	1207.2	589.3	43.1	1.7	0.6	0.7
73.5°	1362.9	1204.0	580.7	42.5	1.5	0.6	0.7
74°	1356.8	1201.0	572.0	41.1	1.2	0.6	0.7
74.5°	1347.1	1198.3	563.3	38.8	1.0	0.6	0.8
75°	1335.1	1197.3	554.9	36.1	0.9	0.6	0.8
75.5°	1319.7	1196.0	547.1	33.1	0.9	0.6	0.8
76°	1301.4	1193.4	540.1	30.3	0.8	0.6	0.9
76.5°	1278.5	1189.8	533.1	26.7	0.7	0.6	0.9
77°	1252.1	1183.7	526.2	23.6	0.6	0.6	1.0
77.5°	1223.6	1175.5	519.2	21.3	0.6	0.6	1.0
78°	1194.1	1165.2	512.2	19.4	0.5	0.6	1.0
78.5°	1163.8	1151.7	506.7	17.6	0.5	0.6	1.1
79°	1134.4	1134.2	501.4	16.1	0.5	0.6	1.1
79.5°	1106.3	1114.6	496.3	14.6	0.5	0.6	1.1
80°	1080.5	1092.8	492.1	13.3	0.5	0.6	1.1
80.5°	1060.0	1073.3	487.7	12.3	0.5	0.6	1.2
81°	1040.7	1057.4	483.0	11.1	0.5	0.6	1.2
81.5°	1025.6	1047.9	478.1	10.0	0.5	0.6	1.2
82°	1012.8	1045.3	473.8	9.0	0.5	0.7	1.3
82.5°	1000.1	1047.6	471.0	8.2	0.5	0.7	1.4
83°	993.6	1051.1	469.7	7.5	0.5	0.7	1.4
83.5°	990.2	1055.1	470.4	6.8	0.5	0.8	1.5
84°	988.9	1047.2	472.3	6.2	0.5	0.8	1.5
84.5°	988.4	1023.6	475.3	5.7	0.5	0.8	1.5
85°	991.2	985.9	478.9	5.2	0.6	0.9	1.6
85.5°	981.1	933.5	481.6	4.8	0.6	0.9	1.7
86°	944.8	866.0	480.5	4.4	0.6	0.9	1.7
86.5°	878.7	787.3	478.7	4.0	0.6	1.0	1.7
87°	788.0	718.7	474.6	3.7	0.6	1.0	1.8
87.5°	718.2	657.6	462.4	3.3	0.7	1.1	1.8
88°	648.4	601.9	444.3	3.0	0.7	1.1	1.9
88.5°	578.7	544.9	420.5	2.6	0.7	1.1	1.9
89°	508.9	480.1	390.2	2.4	0.7	1.2	2.0
89.5°	439.8	453.6	353.8	2.1	0.8	1.2	2.0

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	411.3	462.5	313.6	1.7	0.8	1.2	2.1
90.5°	406.2	476.0	269.9	1.5	0.8	1.3	2.1
91°	428.5	453.9	226.6	1.3	0.9	1.4	2.2
91.5°	436.4	381.3	185.8	1.2	0.9	1.4	2.2
92°	362.3	272.1	153.5	1.1	0.9	1.4	2.3
92.5°	235.3	213.3	127.9	1.0	1.0	1.5	2.3
93°	148.6	155.7	104.2	0.9	1.0	1.5	2.3
93.5°	82.2	98.2	81.4	0.8	1.0	1.6	2.4
94°	45.3	40.8	64.0	0.7	1.0	1.6	2.5
94.5°	37.8	32.9	52.3	0.7	1.1	1.7	2.5
95°	38.0	29.9	46.7	0.7	1.1	1.7	2.5
95.5°	37.3	27.9	45.8	0.7	1.2	1.7	2.5
96°	36.2	26.9	47.9	0.7	1.2	1.8	2.6
96.5°	36.8	27.3	50.4	0.7	1.2	1.8	2.6
97°	40.4	28.7	54.1	0.7	1.3	1.9	2.7
97.5°	41.2	27.6	51.4	0.7	1.3	1.9	2.7
98°	37.5	25.4	41.0	0.6	1.3	2.0	2.8
98.5°	32.3	24.2	29.7	0.6	1.4	2.0	2.8
99°	28.7	23.3	21.2	0.6	1.4	2.0	2.8
99.5°	27.9	21.3	18.0	0.6	1.4	2.1	2.9
100°	27.7	20.1	15.1	0.6	1.5	2.1	2.9
100.5°	26.1	19.7	12.6	0.6	1.5	2.2	2.9
101°	24.5	19.4	10.9	0.6	1.5	2.2	3.0
101.5°	22.8	18.8	9.5	0.6	1.5	2.2	3.0
102°	20.8	17.6	8.0	0.6	1.6	2.3	3.0
102.5°	18.3	15.6	6.4	0.6	1.6	2.3	3.1
103°	15.6	13.2	5.2	0.6	1.6	2.3	3.1
103.5°	13.3	10.6	4.4	0.6	1.7	2.4	3.1
104°	11.5	8.3	3.6	0.6	1.7	2.4	3.1
104.5°	10.2	6.4	3.0	0.6	1.7	2.5	3.2
105°	9.4	4.6	2.5	0.6	1.8	2.5	3.2
105.5°	8.4	3.4	2.1	0.6	1.8	2.5	3.2
106°	6.9	2.6	1.8	0.7	1.8	2.6	3.3
106.5°	5.2	2.1	1.6	0.6	1.8	2.6	3.3
107°	3.5	1.6	1.3	0.6	1.9	2.6	3.3
107.5°	2.2	1.4	1.1	0.7	1.9	2.7	3.3
108°	1.5	1.1	0.9	0.7	1.9	2.7	3.3
108.5°	1.2	0.9	0.8	0.7	2.0	2.7	3.3
109°	1.0	0.7	0.7	0.7	2.0	2.7	3.4
109.5°	0.8	0.5	0.6	0.8	2.0	2.8	3.4
110°	0.6	0.3	0.5	0.8	2.0	2.8	3.4
110.5°	0.3	0.2	0.5	0.8	2.1	2.8	3.4
111°	0.2	0.1	0.4	0.8	2.1	2.8	3.4
111.5°	0.0	0.0	0.3	0.8	2.1	2.8	3.4
112°	0.0	0.0	0.3	0.8	2.1	2.9	3.4

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.2	0.8	2.1	2.9	3.5
113°	0.0	0.0	0.2	0.9	2.2	2.9	3.5
113.5°	0.0	0.0	0.1	0.9	2.2	2.9	3.5
114°	0.0	0.0	0.1	0.9	2.2	3.0	3.5
114.5°	0.0	0.0	0.1	0.9	2.3	3.0	3.5
115°	0.0	0.0	0.1	0.9	2.3	3.0	3.5
115.5°	0.0	0.0	0.1	0.9	2.3	3.1	3.6
116°	0.0	0.0	0.1	0.9	2.3	3.1	3.6
116.5°	0.0	0.0	0.1	1.0	2.3	3.1	3.6
117°	0.0	0.0	0.1	1.0	2.4	3.1	3.6
117.5°	0.0	0.0	0.1	1.0	2.4	3.1	3.6
118°	0.0	0.0	0.1	1.0	2.4	3.1	3.6
118.5°	0.0	0.0	0.1	1.1	2.4	3.2	3.6
119°	0.0	0.0	0.2	1.1	2.4	3.2	3.6
119.5°	0.0	0.0	0.2	1.1	2.4	3.2	3.6
120°	0.0	0.0	0.2	1.1	2.5	3.2	3.6
120.5°	0.0	0.0	0.2	1.1	2.5	3.2	3.6
121°	0.0	0.0	0.2	1.1	2.5	3.2	3.6
121.5°	0.0	0.0	0.2	1.1	2.5	3.3	3.6
122°	0.0	0.0	0.2	1.2	2.5	3.3	3.6
122.5°	0.0	0.0	0.3	1.2	2.6	3.3	3.6
123°	0.0	0.0	0.3	1.2	2.6	3.4	3.6
123.5°	0.0	0.0	0.3	1.2	2.6	3.4	3.6
124°	0.0	0.0	0.3	1.2	2.6	3.4	3.6
124.5°	0.0	0.0	0.3	1.2	2.6	3.4	3.6
125°	0.0	0.0	0.4	1.3	2.6	3.4	3.6
125.5°	0.0	0.0	0.4	1.3	2.6	3.4	3.6
126°	0.0	0.0	0.4	1.3	2.7	3.4	3.6
126.5°	0.0	0.0	0.4	1.4	2.7	3.4	3.6
127°	0.0	0.0	0.4	1.4	2.7	3.4	3.6
127.5°	0.0	0.0	0.4	1.4	2.7	3.4	3.6
128°	0.0	0.0	0.5	1.4	2.7	3.4	3.7
128.5°	0.0	0.0	0.5	1.4	2.7	3.4	3.6
129°	0.0	0.0	0.5	1.4	2.7	3.4	3.7
129.5°	0.0	0.0	0.5	1.4	2.7	3.5	3.7
130°	0.0	0.0	0.6	1.5	2.7	3.5	3.7
130.5°	0.0	0.0	0.6	1.5	2.7	3.5	3.7
131°	0.0	0.0	0.6	1.5	2.7	3.5	3.7
131.5°	0.0	0.0	0.6	1.5	2.8	3.5	3.7
132°	0.0	0.0	0.6	1.5	2.8	3.5	3.7
132.5°	0.0	0.0	0.7	1.6	2.8	3.5	3.7
133°	0.0	0.0	0.7	1.6	2.8	3.5	3.7
133.5°	0.0	0.0	0.7	1.6	2.8	3.5	3.7
134°	0.0	0.0	0.7	1.7	2.8	3.5	3.7
134.5°	0.0	0.0	0.7	1.7	2.8	3.5	3.7

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.0	0.8	1.7	2.8	3.5	3.7
135.5°	0.0	0.1	0.8	1.7	2.8	3.5	3.7
136°	0.0	0.1	0.8	1.7	2.8	3.5	3.7
136.5°	0.0	0.1	0.8	1.7	2.8	3.5	3.7
137°	0.0	0.1	0.9	1.7	2.8	3.5	3.7
137.5°	0.0	0.1	0.9	1.8	2.9	3.5	3.7
138°	0.0	0.1	0.9	1.8	2.8	3.5	3.7
138.5°	0.1	0.1	0.9	1.8	2.9	3.5	3.7
139°	0.1	0.2	1.0	1.8	2.9	3.5	3.7
139.5°	0.1	0.2	1.0	1.8	2.9	3.5	3.7
140°	0.1	0.2	1.0	1.8	2.9	3.5	3.7
140.5°	0.1	0.3	1.0	1.9	2.9	3.5	3.7
141°	0.1	0.3	1.0	1.9	2.9	3.5	3.7
141.5°	0.1	0.3	1.1	1.9	2.9	3.5	3.7
142°	0.1	0.3	1.1	1.9	2.9	3.5	3.7
142.5°	0.1	0.4	1.1	2.0	2.9	3.5	3.7
143°	0.2	0.4	1.1	2.0	2.9	3.5	3.7
143.5°	0.2	0.4	1.2	2.0	2.9	3.5	3.7
144°	0.2	0.4	1.2	2.0	2.9	3.5	3.6
144.5°	0.2	0.4	1.2	2.0	2.9	3.5	3.6
145°	0.2	0.4	1.2	2.0	2.9	3.5	3.6
145.5°	0.2	0.5	1.3	2.0	2.9	3.5	3.6
146°	0.3	0.5	1.3	2.0	2.9	3.5	3.6
146.5°	0.3	0.5	1.3	2.0	3.0	3.5	3.6
147°	0.3	0.5	1.3	2.0	3.0	3.5	3.6
147.5°	0.3	0.5	1.3	2.1	3.0	3.5	3.5
148°	0.3	0.6	1.4	2.1	3.0	3.5	3.5
148.5°	0.4	0.6	1.4	2.1	3.0	3.5	3.5
149°	0.4	0.6	1.4	2.1	3.0	3.5	3.5
149.5°	0.4	0.6	1.4	2.2	3.0	3.5	3.5
150°	0.4	0.7	1.5	2.2	3.0	3.5	3.5
150.5°	0.4	0.7	1.5	2.2	3.0	3.5	3.5
151°	0.5	0.8	1.5	2.2	3.0	3.5	3.5
151.5°	0.5	0.8	1.5	2.2	3.0	3.5	3.5
152°	0.5	0.8	1.5	2.2	3.0	3.5	3.5
152.5°	0.5	0.8	1.6	2.2	3.0	3.5	3.5
153°	0.6	0.8	1.6	2.2	3.0	3.5	3.4
153.5°	0.6	0.9	1.6	2.3	3.1	3.5	3.4
154°	0.6	0.9	1.6	2.3	3.0	3.5	3.4
154.5°	0.7	0.9	1.7	2.3	3.1	3.5	3.4
155°	0.7	1.0	1.7	2.3	3.1	3.5	3.4
155.5°	0.7	1.0	1.7	2.3	3.1	3.5	3.4
156°	0.7	1.1	1.7	2.3	3.1	3.5	3.4
156.5°	0.7	1.1	1.7	2.3	3.1	3.5	3.4
157°	0.8	1.1	1.8	2.4	3.1	3.5	3.4

REPORT NUMBER: P1197168

CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.8	1.1	1.8	2.4	3.1	3.4	3.3
158°	0.8	1.1	1.8	2.4	3.1	3.4	3.3
158.5°	0.9	1.2	1.8	2.4	3.1	3.4	3.3
159°	0.9	1.2	1.8	2.5	3.1	3.4	3.3
159.5°	0.9	1.2	1.9	2.5	3.1	3.4	3.3
160°	1.0	1.3	1.9	2.5	3.1	3.4	3.2
160.5°	1.0	1.3	1.9	2.5	3.1	3.4	3.2
161°	1.0	1.3	1.9	2.5	3.1	3.4	3.2
161.5°	1.0	1.4	2.0	2.5	3.1	3.4	3.2
162°	1.0	1.4	2.0	2.5	3.1	3.3	3.2
162.5°	1.1	1.4	2.0	2.5	3.1	3.3	3.2
163°	1.1	1.4	2.0	2.5	3.1	3.3	3.1
163.5°	1.1	1.5	2.1	2.5	3.1	3.3	3.1
164°	1.2	1.5	2.1	2.6	3.1	3.3	3.1
164.5°	1.2	1.5	2.1	2.6	3.1	3.3	3.1
165°	1.2	1.5	2.1	2.6	3.1	3.3	3.1
165.5°	1.2	1.6	2.1	2.6	3.1	3.3	3.0
166°	1.3	1.6	2.1	2.6	3.1	3.3	3.0
166.5°	1.3	1.6	2.2	2.6	3.1	3.3	3.0
167°	1.3	1.7	2.2	2.6	3.1	3.2	3.0
167.5°	1.4	1.7	2.2	2.6	3.1	3.3	2.9
168°	1.4	1.7	2.2	2.7	3.1	3.2	2.9
168.5°	1.4	1.7	2.3	2.7	3.1	3.2	2.9
169°	1.5	1.8	2.3	2.7	3.1	3.2	2.9
169.5°	1.5	1.8	2.3	2.7	3.1	3.2	2.9
170°	1.5	1.8	2.3	2.7	3.0	3.2	2.9
170.5°	1.5	1.9	2.4	2.7	3.0	3.2	2.8
171°	1.6	1.9	2.4	2.7	3.0	3.2	2.8
171.5°	1.6	1.9	2.4	2.7	3.0	3.1	2.8
172°	1.6	1.9	2.4	2.7	2.9	3.1	2.7
172.5°	1.7	1.9	2.4	2.7	2.9	3.1	2.7
173°	1.7	2.0	2.5	2.7	2.9	3.1	2.7
173.5°	1.8	2.0	2.5	2.7	2.9	3.0	2.7
174°	1.8	2.0	2.5	2.8	2.9	3.0	2.6
174.5°	1.8	2.1	2.5	2.8	2.9	3.0	2.6
175°	1.8	2.1	2.6	2.8	2.9	3.0	2.6
175.5°	1.9	2.2	2.6	2.8	2.9	3.0	2.5
176°	1.9	2.2	2.6	2.8	2.9	3.0	2.5
176.5°	2.0	2.2	2.6	2.8	2.9	3.0	2.4
177°	2.0	2.2	2.6	2.8	2.9	2.9	2.4
177.5°	2.0	2.2	2.6	2.8	2.9	2.9	2.4
178°	2.1	2.3	2.6	2.8	2.9	2.9	2.3
178.5°	2.1	2.3	2.6	2.8	2.8	2.9	2.3
179°	2.1	2.3	2.6	2.8	2.8	2.9	2.3
179.5°	2.1	2.4	2.6	2.8	2.8	2.8	2.3



REPORT NUMBER: P1197168
CATALOG NUMBER: AWPS28S-BZ-MID-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)