

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: P1197006

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

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197006
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-MID-5000K-POSITION 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3375 (1 lamp)
Luminaire Lumens: 3699.6 lumens
Efficiency: 109.6%
Efficacy: 139.1 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: B2 - U1 - G1

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

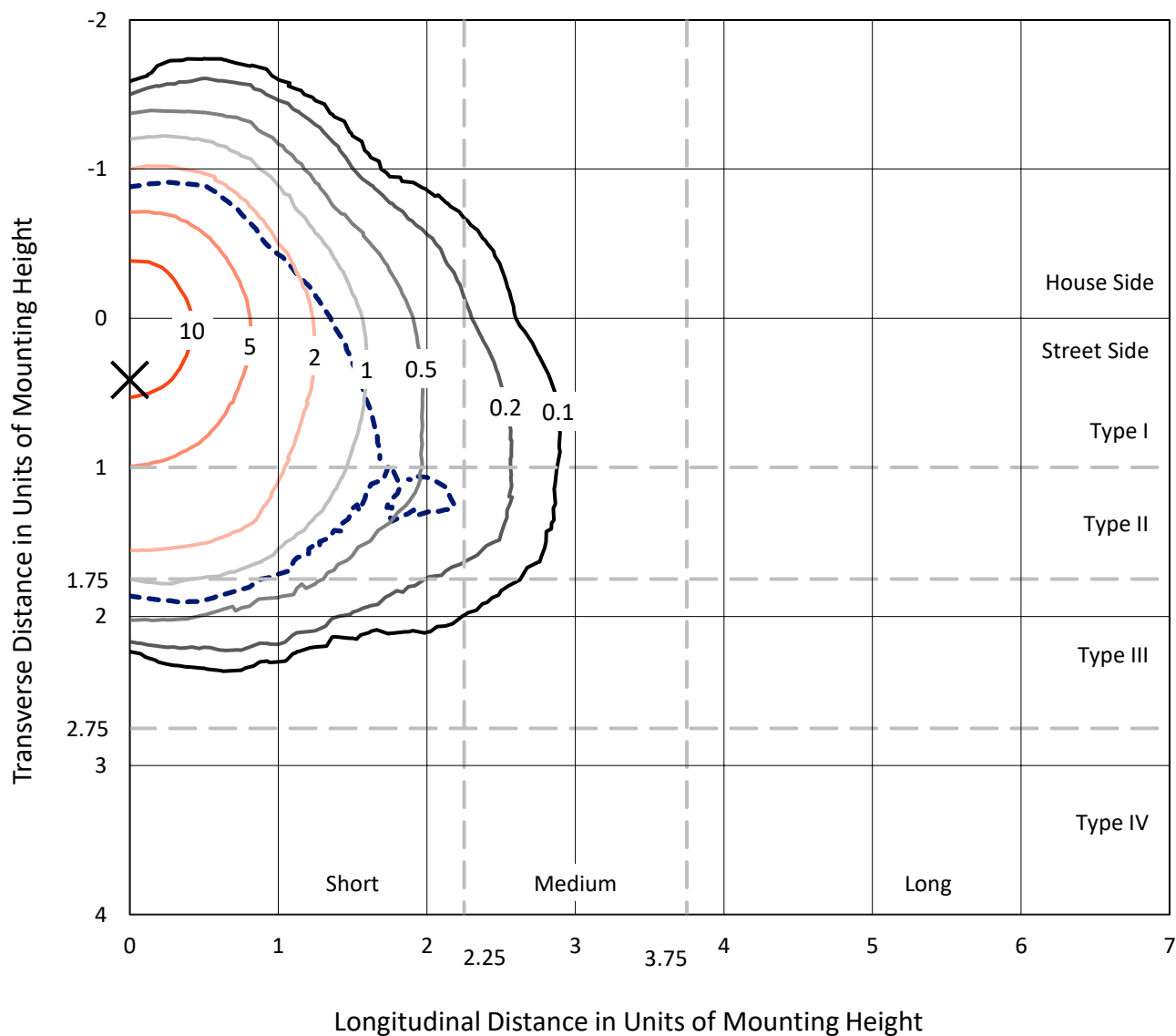
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

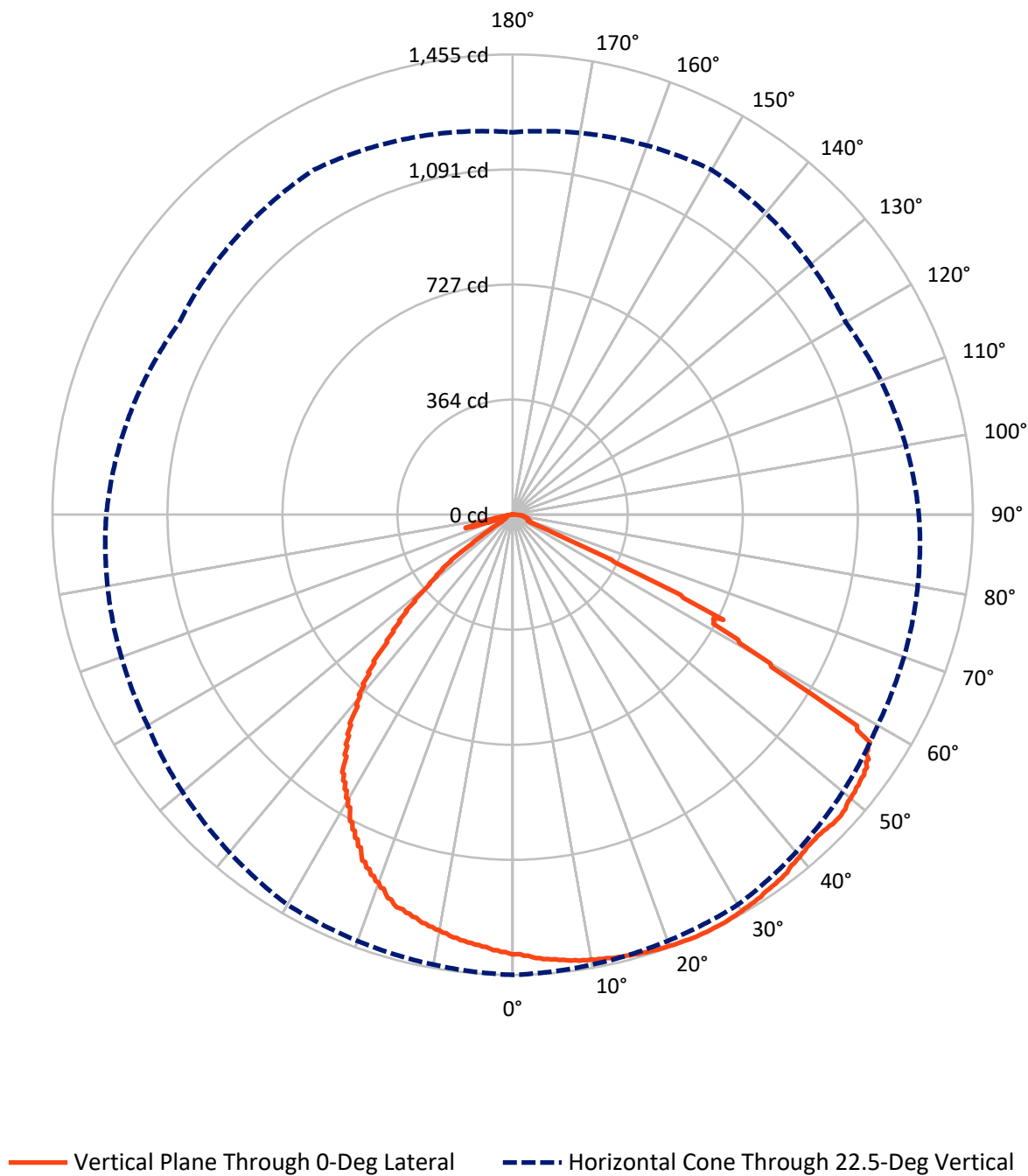


Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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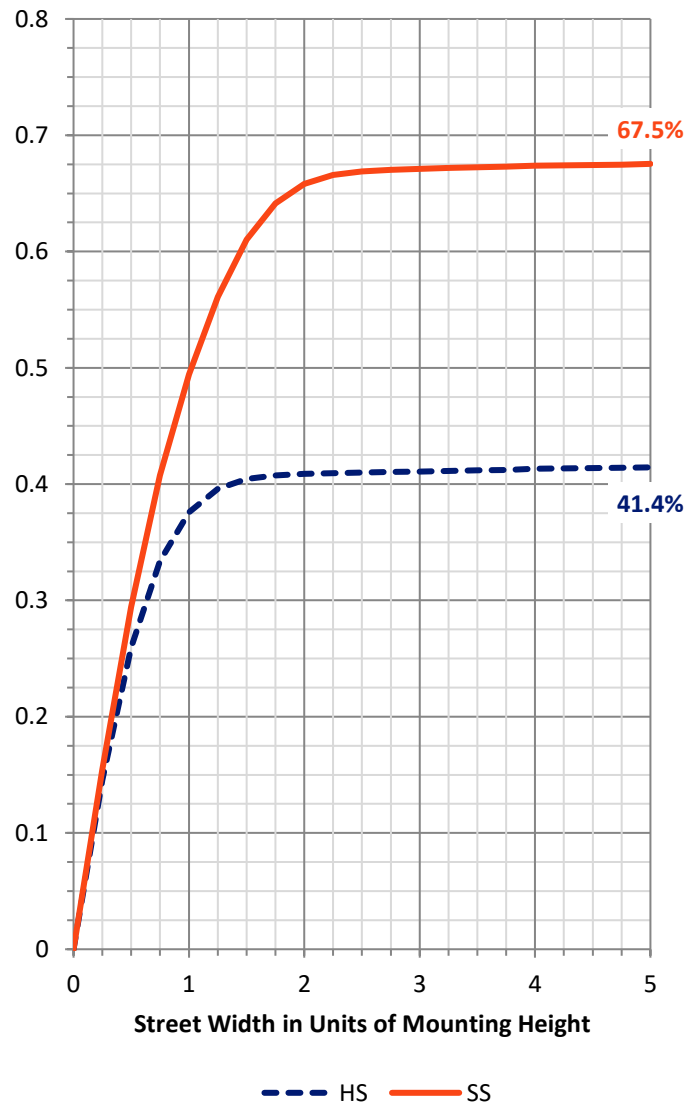
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.4	3.8	1416.2
	% Lamp	41.9	0.1	42.0
Street Side	Lumens	2280.5	2.9	2283.4
	% Lamp	67.6	0.1	67.7
Total	Lumens	3692.9	6.6	3699.6
	% Lamp	109.4	0.2	109.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	132.6	3.6	3.9
10°-20°	383.6	10.4	11.4
20°-30°	592.6	16.0	17.6
30°-40°	725.5	19.6	21.5
40°-50°	749.7	20.3	22.2
50°-60°	659.1	17.8	19.5
60°-70°	341.6	9.2	10.1
70°-80°	87.2	2.4	2.6
80°-90°	21.1	0.6	0.6
90°-100°	1.7	0.0	0.1
100°-110°	0.9	0.0	0.0
110°-120°	0.8	0.0	0.0
120°-130°	0.8	0.0	0.0
130°-140°	0.8	0.0	0.0
140°-150°	0.7	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°	3692.9	99.8	109.4
0°-180°	3699.6	100.0	109.6

Coefficient of Utilization



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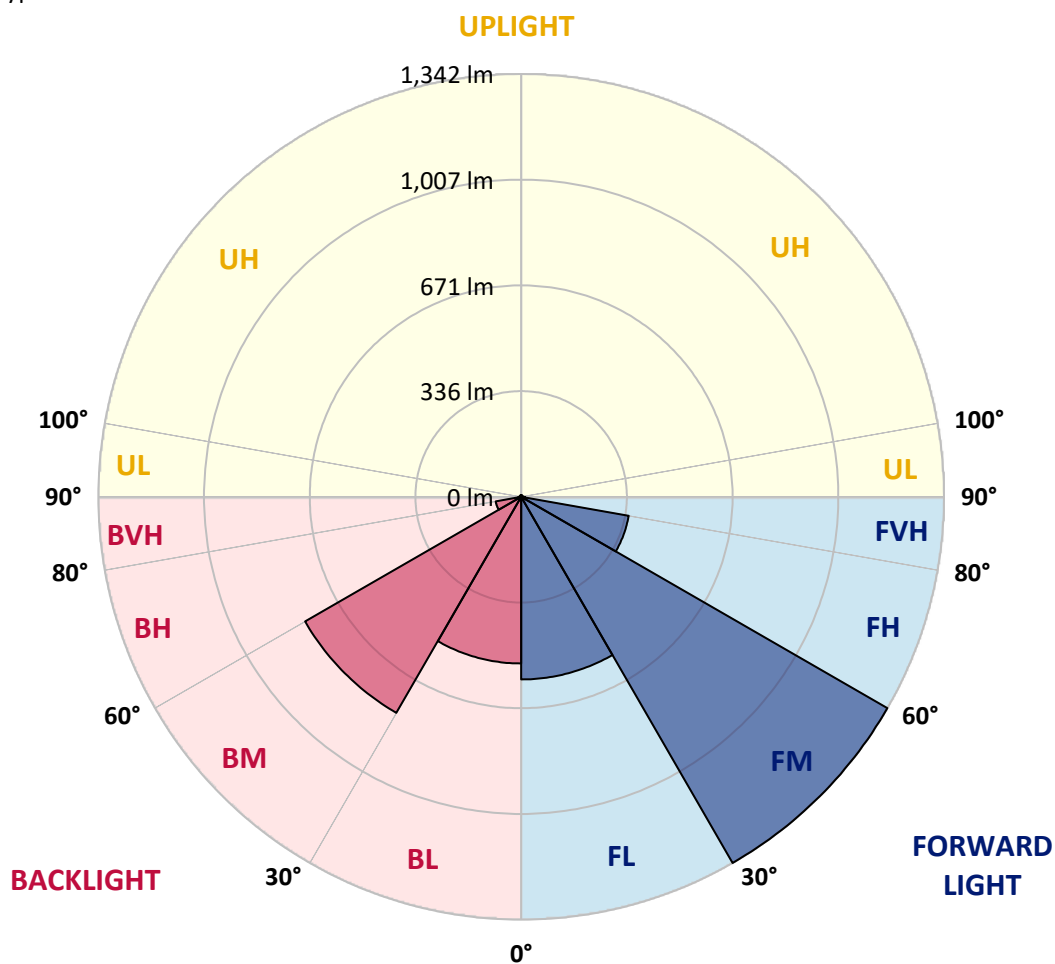
CATALOG NUMBER: AWP28S-BZ-MID-5000K-POSITION 0

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.7	17.2			
FM	(30°-60°)	1342.3	39.8			
FH	(60°-80°)	346.6	10.3			G0/660
FVH	(80°-90°)	11.9	0.4			G1/100
BL	(0°-30°)	529.1	15.7	B2/1000		
BM	(30°-60°)	791.9	23.5	B1/1000		
BH	(60°-80°)	82.2	2.4	B0/110		G0/110
BVH	(80°-90°)	9.2	0.3			G0/10
UL	(90°-100°)	1.7	0.1		U1/10	
UH	(100°-180°)	4.9	0.1		U1/10	
Trapped Light		-324.6	-9.6			

BUG Rating: B2-U1-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1389.9	1389.9	1389.9	1389.9	1389.9	1389.9	1389.9
0.5°	1389.9	1389.9	1389.9	1389.9	1389.9	1389.9	1389.9
1°	1394.8	1397.6	1404.0	1401.8	1393.2	1399.5	1386.6
1.5°	1394.8	1397.6	1404.0	1401.8	1389.9	1399.3	1382.9
2°	1399.6	1398.7	1404.1	1401.8	1389.9	1395.3	1382.7
2.5°	1404.0	1399.0	1405.3	1401.6	1386.5	1395.1	1378.2
3°	1404.1	1403.5	1404.9	1399.7	1386.4	1391.0	1378.0
3.5°	1408.8	1409.5	1405.2	1399.7	1381.5	1390.7	1373.8
4°	1408.9	1409.5	1405.0	1398.5	1381.4	1387.0	1369.0
4.5°	1411.8	1411.4	1405.1	1398.5	1377.4	1386.8	1369.0
5°	1411.9	1411.4	1404.6	1397.2	1377.3	1382.7	1364.3
5.5°	1416.0	1412.5	1405.3	1397.2	1372.3	1379.6	1364.1
6°	1416.0	1412.5	1405.3	1394.9	1372.2	1379.6	1360.3
6.5°	1419.6	1417.3	1403.0	1394.8	1367.1	1374.8	1360.1
7°	1421.9	1417.4	1403.0	1392.5	1361.4	1374.5	1355.4
7.5°	1422.0	1414.8	1400.0	1392.4	1361.4	1369.8	1355.1
8°	1425.9	1415.0	1400.0	1388.4	1355.0	1369.4	1349.8
8.5°	1426.0	1416.6	1399.6	1384.6	1354.7	1364.2	1349.5
9°	1428.1	1421.9	1399.9	1384.6	1348.9	1363.9	1345.8
9.5°	1428.2	1421.9	1397.0	1376.6	1348.4	1359.3	1339.7
10°	1430.9	1422.1	1397.0	1376.6	1341.0	1358.9	1339.7
10.5°	1431.0	1422.1	1394.6	1376.5	1341.0	1353.6	1334.0
11°	1433.1	1424.2	1390.0	1376.2	1334.1	1348.0	1333.7
11.5°	1433.1	1424.2	1390.0	1376.2	1334.1	1348.0	1328.2
12°	1435.6	1421.6	1386.3	1376.0	1326.4	1341.6	1327.8
12.5°	1437.6	1426.1	1386.6	1363.8	1318.0	1341.2	1322.2
13°	1437.7	1426.1	1381.0	1357.1	1317.7	1336.1	1321.9
13.5°	1439.9	1426.2	1381.0	1357.1	1308.9	1335.6	1316.5
14°	1439.9	1426.0	1379.5	1350.6	1308.5	1330.1	1309.4
14.5°	1442.3	1427.4	1379.6	1350.6	1299.9	1329.7	1309.4
15°	1442.3	1427.4	1376.8	1344.0	1299.5	1321.8	1302.8
15.5°	1444.9	1428.0	1368.0	1343.5	1291.8	1321.4	1302.8
16°	1444.9	1428.0	1368.0	1336.3	1291.4	1315.6	1294.8
16.5°	1446.9	1428.4	1364.9	1336.1	1283.7	1308.7	1294.4
17°	1446.9	1428.4	1364.9	1329.8	1274.3	1308.1	1294.4
17.5°	1448.3	1428.5	1362.2	1329.7	1274.3	1300.9	1286.0
18°	1449.4	1428.6	1362.2	1323.7	1265.7	1300.4	1275.5
18.5°	1449.4	1427.2	1356.0	1316.2	1265.3	1293.0	1275.1
19°	1450.7	1426.7	1356.0	1316.2	1256.0	1292.5	1264.5
19.5°	1450.7	1426.7	1351.6	1308.0	1255.6	1285.8	1250.9
20°	1452.3	1425.9	1351.6	1308.0	1246.0	1285.3	1250.9
20.5°	1452.3	1425.9	1346.6	1300.7	1245.6	1277.3	1237.4
21°	1452.9	1424.1	1340.7	1300.4	1236.7	1268.8	1236.9
21.5°	1452.9	1424.1	1340.7	1292.3	1236.2	1268.8	1223.6
22°	1454.0	1423.7	1332.3	1291.9	1226.5	1258.9	1223.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1454.9	1423.8	1332.3	1284.6	1216.2	1258.3	1208.6
23°	1454.8	1421.5	1328.5	1284.4	1216.2	1248.3	1208.0
23.5°	1454.5	1421.5	1328.5	1275.9	1205.8	1247.8	1193.0
24°	1454.4	1418.8	1319.0	1265.7	1205.3	1235.7	1192.3
24.5°	1454.6	1417.6	1318.9	1265.7	1195.2	1235.1	1175.2
25°	1454.5	1417.6	1314.3	1256.2	1194.7	1222.5	1156.5
25.5°	1453.8	1416.5	1314.3	1256.2	1184.0	1221.9	1156.5
26°	1453.7	1416.5	1301.4	1245.1	1183.4	1208.2	1137.5
26.5°	1453.6	1409.4	1296.7	1244.9	1171.9	1192.6	1136.6
27°	1453.6	1409.4	1296.7	1234.0	1171.3	1192.6	1117.3
27.5°	1452.2	1410.9	1288.9	1233.5	1160.9	1176.9	1116.4
28°	1450.6	1410.9	1288.9	1222.8	1148.9	1176.3	1097.5
28.5°	1450.4	1406.3	1281.7	1212.8	1148.3	1160.3	1096.6
29°	1448.2	1406.2	1281.7	1212.8	1136.8	1159.6	1078.0
29.5°	1448.0	1402.5	1273.5	1201.9	1136.2	1141.9	1058.4
30°	1445.4	1397.1	1273.2	1201.9	1124.1	1141.2	1058.4
30.5°	1445.2	1397.1	1264.4	1189.9	1123.5	1122.7	1038.6
31°	1443.3	1392.1	1256.8	1189.4	1111.6	1122.0	1038.6
31.5°	1443.3	1392.1	1256.8	1177.1	1110.9	1103.0	1018.0
32°	1441.1	1388.4	1247.5	1176.6	1096.5	1082.0	1016.9
32.5°	1441.1	1388.4	1247.5	1163.1	1080.5	1081.2	998.1
33°	1437.4	1382.8	1238.8	1162.7	1080.5	1060.2	996.9
33.5°	1435.1	1382.6	1238.8	1149.3	1062.9	1059.2	977.9
34°	1434.9	1379.0	1228.5	1133.9	1062.1	1039.5	976.7
34.5°	1432.9	1373.7	1228.2	1133.9	1045.5	1038.6	953.5
35°	1432.7	1373.7	1214.6	1119.3	1044.7	1017.6	926.9
35.5°	1430.0	1370.0	1214.4	1119.3	1026.6	1016.6	926.9
36°	1429.7	1370.0	1204.8	1106.8	1025.9	996.6	899.1
36.5°	1426.7	1364.9	1194.5	1106.2	1006.7	974.9	898.0
37°	1426.7	1364.9	1194.5	1092.6	1005.9	974.9	869.6
37.5°	1420.8	1360.3	1181.7	1091.9	985.6	952.6	868.4
38°	1416.5	1360.1	1181.7	1077.8	963.4	951.4	838.8
38.5°	1416.1	1356.6	1173.0	1077.3	963.4	930.2	837.6
39°	1413.3	1356.5	1173.0	1062.5	939.5	928.9	808.1
39.5°	1413.0	1351.5	1158.1	1046.4	938.7	909.2	778.7
40°	1408.6	1343.4	1157.7	1046.4	914.7	907.8	778.7
40.5°	1408.2	1343.4	1146.1	1029.0	913.8	886.3	749.2
41°	1403.7	1338.6	1145.9	1029.0	885.9	861.3	747.8
41.5°	1403.7	1338.6	1132.8	1012.1	885.0	861.3	715.1
42°	1402.4	1333.4	1120.4	1011.4	856.7	859.7	715.1
42.5°	1402.4	1333.4	1120.4	994.4	827.1	818.5	676.8
43°	1400.1	1324.7	1107.0	993.7	827.1	818.5	676.8
43.5°	1401.9	1324.8	1107.0	974.1	796.8	788.6	639.7
44°	1401.8	1318.3	1093.9	953.6	795.6	788.6	639.7
44.5°	1404.2	1310.8	1093.5	933.7	764.4	758.1	602.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1404.0	1310.8	1080.2	932.9	764.4	758.1	564.7
45.5°	1407.2	1304.3	1079.8	932.9	735.5	726.6	563.0
46°	1407.2	1304.3	1065.7	932.1	735.5	726.6	527.4
46.5°	1407.7	1301.3	1048.7	931.2	706.6	696.0	525.8
47°	1407.7	1301.3	1048.7	889.8	704.3	667.9	490.6
47.5°	1404.9	1303.2	1032.6	888.9	676.5	666.4	490.6
48°	1404.9	1303.2	1032.6	868.2	648.1	632.6	453.5
48.5°	1399.3	1300.0	1016.2	867.3	648.1	632.6	453.5
49°	1395.4	1299.7	1016.2	846.6	618.8	597.2	412.0
49.5°	1395.5	1296.1	998.3	824.0	617.6	597.2	412.0
50°	1392.2	1298.0	998.5	824.0	589.4	561.0	375.2
50.5°	1392.3	1298.0	979.5	802.2	588.2	561.0	342.3
51°	1388.0	1296.7	979.5	802.2	558.7	522.3	340.2
51.5°	1388.2	1296.7	961.6	778.8	557.4	522.3	310.2
52°	1384.5	1293.2	943.8	777.8	525.7	484.5	308.2
52.5°	1382.3	1293.1	943.8	757.0	524.5	451.2	279.4
53°	1383.1	1294.1	925.6	756.0	490.5	449.3	279.4
53.5°	1375.5	1293.6	925.6	733.7	453.0	417.8	242.8
54°	1376.3	1294.4	906.2	711.4	451.8	417.8	242.8
54.5°	1363.4	1293.7	906.2	711.4	414.3	387.1	195.8
55°	1365.6	1302.6	887.6	686.6	413.0	387.1	153.9
55.5°	1348.0	1319.6	888.6	686.6	372.9	354.1	152.2
56°	1348.0	1319.6	871.7	663.7	371.7	354.1	118.5
56.5°	1339.8	1347.2	856.7	662.8	333.8	317.4	116.5
57°	1339.8	1347.2	856.7	638.8	332.5	287.4	77.9
57.5°	1285.0	1379.4	844.3	637.9	298.0	285.5	77.9
58°	1276.4	1379.4	844.3	615.3	267.6	257.7	40.0
58.5°	1113.5	1383.3	829.4	614.4	267.6	257.7	40.0
59°	949.0	1374.0	829.4	591.0	241.4	224.6	38.2
59.5°	940.8	1301.0	810.0	565.7	240.0	224.6	38.2
60°	823.3	1149.3	801.8	565.7	218.1	178.6	35.7
60.5°	815.3	1149.3	786.8	539.5	216.7	178.6	33.7
61°	722.3	981.3	777.6	539.5	183.5	130.2	31.1
61.5°	720.5	981.3	763.7	511.7	182.0	130.2	30.2
62°	715.2	841.2	743.1	511.0	132.7	95.3	28.4
62.5°	715.2	841.2	743.1	481.8	131.0	74.4	25.5
63°	745.0	708.1	728.0	481.4	97.1	72.5	25.5
63.5°	599.6	699.9	728.0	449.1	81.7	52.2	22.8
64°	589.6	643.4	723.6	449.0	81.7	52.2	22.8
64.5°	355.4	630.2	723.6	412.8	73.2	43.5	21.5
65°	343.5	691.5	739.2	373.5	70.9	43.5	21.5
65.5°	134.3	656.1	737.9	373.5	66.5	39.1	21.3
66°	125.5	656.1	759.1	331.1	64.0	39.1	21.4
66.5°	59.7	513.1	751.3	331.1	60.2	36.9	21.3
67°	56.5	513.1	772.7	289.6	57.8	36.9	21.1

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	51.2	305.4	755.6	289.3	55.2	35.0	21.0
68°	51.2	305.4	755.6	252.6	53.1	33.6	20.7
68.5°	55.8	135.8	717.5	251.0	51.1	33.4	20.7
69°	58.7	136.0	717.5	215.1	46.7	32.0	19.9
69.5°	58.8	54.6	661.5	177.6	44.7	32.0	19.9
70°	54.3	54.3	661.5	177.6	41.5	30.4	19.7
70.5°	54.2	46.4	594.6	147.7	40.1	30.4	20.5
71°	53.5	47.7	594.7	147.7	36.9	28.8	20.5
71.5°	53.3	47.7	504.5	127.9	36.1	28.8	36.0
72°	50.3	50.0	409.6	122.5	33.0	27.4	36.0
72.5°	50.3	50.0	409.6	111.4	32.4	26.2	79.3
73°	48.0	47.3	326.1	106.7	29.6	26.1	79.3
73.5°	48.0	44.9	325.9	86.4	25.9	24.9	132.4
74°	50.6	45.1	255.4	82.4	25.9	24.9	132.4
74.5°	51.1	45.1	255.4	75.9	25.6	23.4	154.5
75°	51.2	45.1	191.6	66.9	23.5	23.3	154.5
75.5°	49.9	41.7	191.5	66.9	22.4	20.7	134.4
76°	50.0	43.0	135.9	57.6	22.1	20.7	124.6
76.5°	45.7	42.7	135.9	57.6	20.8	18.2	124.5
77°	45.6	44.8	97.9	48.8	20.4	18.2	104.7
77.5°	41.1	44.5	75.3	47.5	18.0	16.7	104.6
78°	41.1	47.0	75.4	39.5	17.6	15.8	83.1
78.5°	37.4	46.9	69.8	39.2	14.6	15.6	83.1
79°	35.9	47.0	69.8	31.7	12.0	15.4	56.0
79.5°	35.6	47.0	68.9	31.6	12.0	15.4	56.0
80°	36.7	44.9	68.8	25.1	10.9	14.7	35.8
80.5°	36.7	44.9	65.2	20.7	10.7	14.7	35.8
81°	36.6	40.4	65.0	20.7	9.3	14.8	25.1
81.5°	36.3	35.4	59.1	17.5	9.2	14.8	17.6
82°	35.4	35.4	59.1	17.5	8.2	30.2	18.4
82.5°	35.2	30.8	53.4	15.2	8.1	30.2	13.0
83°	33.8	30.7	44.3	14.7	7.3	48.9	14.1
83.5°	33.8	25.8	44.0	12.9	7.2	53.4	11.3
84°	30.5	25.6	33.0	12.2	6.0	53.3	11.3
84.5°	25.5	19.6	32.7	10.9	4.4	48.2	9.1
85°	25.3	19.6	22.2	8.9	4.4	48.2	9.1
85.5°	20.9	14.0	21.9	8.9	3.6	43.5	7.6
86°	20.8	11.1	11.9	6.8	3.5	43.5	6.2
86.5°	17.4	10.9	11.9	6.8	3.0	38.5	6.0
87°	17.3	8.3	3.2	5.4	2.9	38.5	5.1
87.5°	13.9	8.1	0.6	5.2	1.9	35.9	5.0
88°	13.9	5.5	0.5	4.3	1.9	32.6	3.7
88.5°	10.1	5.3	0.5	4.3	1.1	32.6	3.7
89°	10.1	3.4	0.4	3.3	0.6	28.9	2.6
89.5°	6.4	3.2	0.4	3.3	0.6	28.9	2.6

REPORT NUMBER: P1197006

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	2.5	2.0	0.3	2.7	0.5	23.1	1.7
90.5°	2.5	2.0	0.2	2.2	0.4	23.1	1.7
91°	1.6	1.7	0.2	2.2	0.3	14.5	1.3
91.5°	1.6	1.7	0.3	1.5	0.3	14.5	1.3
92°	1.6	1.7	0.3	1.5	0.3	4.9	0.7
92.5°	1.6	1.6	0.2	1.4	0.3	4.9	0.6
93°	1.5	1.6	0.2	1.4	0.3	2.0	0.4
93.5°	1.5	1.5	0.2	1.4	0.3	1.8	0.6
94°	1.4	1.5	0.2	1.4	0.3	1.8	0.6
94.5°	1.4	1.5	0.2	1.4	0.3	1.6	1.1
95°	1.4	1.5	0.2	1.4	0.3	1.6	1.1
95.5°	1.4	1.5	0.2	1.3	0.3	1.5	0.7
96°	1.4	1.4	0.2	1.3	0.3	1.5	0.7
96.5°	1.3	1.4	0.2	1.3	0.3	1.4	0.5
97°	1.3	1.4	0.2	1.3	0.3	1.4	0.4
97.5°	1.3	1.4	0.2	1.3	0.3	1.4	0.4
98°	1.3	1.3	0.2	1.2	0.3	1.4	0.4
98.5°	1.2	1.3	0.2	1.2	0.4	1.3	0.4
99°	1.2	1.3	0.2	1.2	0.4	1.3	0.4
99.5°	1.2	1.3	0.2	1.2	0.4	1.3	0.4
100°	1.2	1.3	0.2	1.2	0.4	1.3	0.4
100.5°	1.2	1.3	0.2	1.2	0.4	1.3	0.4
101°	1.2	1.2	0.2	1.2	0.4	1.3	0.4
101.5°	1.2	1.2	0.2	1.1	0.4	1.3	0.4
102°	1.1	1.1	0.2	1.1	0.4	1.3	0.4
102.5°	1.1	1.1	0.2	1.1	0.4	1.3	0.4
103°	1.1	1.1	0.2	1.1	0.4	1.2	0.4
103.5°	1.1	1.1	0.2	1.1	0.4	1.3	0.4
104°	1.1	1.1	0.3	1.1	0.4	1.3	0.4
104.5°	1.0	1.1	0.3	1.1	0.4	1.3	0.5
105°	1.0	1.1	0.3	1.1	0.4	1.3	0.5
105.5°	1.0	1.0	0.3	1.1	0.4	1.2	0.5
106°	1.0	1.0	0.3	1.1	0.5	1.2	0.5
106.5°	1.0	1.0	0.3	1.1	0.5	1.2	0.5
107°	1.0	1.0	0.3	1.1	0.5	1.2	0.5
107.5°	1.0	1.0	0.3	1.1	0.5	1.2	0.5
108°	1.0	1.0	0.3	1.1	0.5	1.2	0.5
108.5°	0.9	1.0	0.3	1.1	0.5	1.2	0.5
109°	0.9	0.9	0.3	1.0	0.5	1.2	0.5
109.5°	0.9	0.9	0.3	1.0	0.5	1.2	0.5
110°	0.9	0.9	0.3	1.1	0.5	1.2	0.5
110.5°	0.9	0.9	0.3	1.1	0.5	1.2	0.5
111°	0.9	0.9	0.3	1.0	0.5	1.2	0.6
111.5°	0.9	1.0	0.3	1.0	0.6	1.2	0.6
112°	0.9	1.0	0.3	1.0	0.6	1.2	0.6

REPORT NUMBER: P1197006

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.9	0.9	0.3	1.0	0.6	1.2	0.6
113°	0.9	0.9	0.3	1.0	0.6	1.2	0.6
113.5°	0.9	0.9	0.3	1.0	0.6	1.2	0.6
114°	0.9	0.9	0.4	1.0	0.6	1.2	0.6
114.5°	0.9	0.9	0.4	1.0	0.6	1.2	0.7
115°	0.8	0.9	0.4	1.0	0.6	1.2	0.7
115.5°	0.9	0.9	0.4	1.0	0.6	1.2	0.7
116°	0.9	0.9	0.4	1.0	0.6	1.2	0.7
116.5°	0.9	0.9	0.4	1.0	0.6	1.2	0.7
117°	0.9	0.9	0.4	1.0	0.7	1.2	0.7
117.5°	0.9	0.9	0.4	1.0	0.7	1.2	0.7
118°	0.9	0.9	0.4	1.0	0.7	1.2	0.7
118.5°	0.8	0.9	0.4	1.0	0.7	1.2	0.7
119°	0.8	0.9	0.4	1.0	0.7	1.2	0.8
119.5°	0.8	0.9	0.5	1.0	0.7	1.2	0.8
120°	0.8	0.9	0.5	1.0	0.7	1.2	0.8
120.5°	0.8	0.9	0.5	1.0	0.7	1.2	0.8
121°	0.8	0.9	0.5	1.0	0.7	1.3	0.8
121.5°	0.8	0.9	0.5	1.0	0.7	1.3	0.8
122°	0.8	0.9	0.5	1.0	0.7	1.3	0.8
122.5°	0.8	0.9	0.5	1.0	0.7	1.3	0.8
123°	0.8	0.9	0.5	1.0	0.7	1.3	0.8
123.5°	0.8	0.9	0.5	1.0	0.7	1.3	0.9
124°	0.8	0.9	0.5	1.0	0.7	1.3	0.9
124.5°	0.8	0.9	0.5	1.1	0.8	1.3	0.9
125°	0.8	0.9	0.6	1.1	0.8	1.3	0.9
125.5°	0.8	0.9	0.6	1.0	0.8	1.3	0.9
126°	0.8	0.9	0.6	1.0	0.8	1.3	0.9
126.5°	0.8	0.9	0.6	1.1	0.8	1.3	0.9
127°	0.8	0.9	0.6	1.1	0.8	1.3	0.9
127.5°	0.8	0.9	0.6	1.1	0.8	1.3	0.9
128°	0.8	0.9	0.6	1.1	0.8	1.3	0.9
128.5°	0.8	0.9	0.6	1.1	0.8	1.3	0.9
129°	0.8	0.9	0.6	1.1	0.8	1.3	1.1
129.5°	0.8	0.9	0.6	1.1	0.8	1.3	1.1
130°	0.8	1.0	0.6	1.1	0.8	1.3	1.1
130.5°	0.8	1.0	0.6	1.1	0.9	1.4	1.1
131°	0.9	0.9	0.6	1.1	0.9	1.4	1.1
131.5°	0.9	0.9	0.7	1.1	0.8	1.3	1.1
132°	0.8	1.0	0.7	1.1	0.8	1.3	1.1
132.5°	0.8	1.0	0.7	1.1	0.9	1.4	1.2
133°	0.9	1.0	0.7	1.1	0.9	1.4	1.2
133.5°	0.9	1.0	0.7	1.1	0.9	1.4	1.1
134°	0.9	1.0	0.7	1.1	0.9	1.4	1.1
134.5°	0.9	1.0	0.7	1.1	0.9	1.4	1.1

REPORT NUMBER: P1197006

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.9	1.0	0.7	1.1	0.9	1.4	1.1
135.5°	0.9	1.0	0.7	1.1	0.9	1.4	1.1
136°	0.9	1.0	0.7	1.1	0.9	1.4	1.1
136.5°	0.9	1.0	0.7	1.1	0.9	1.4	1.1
137°	0.9	1.0	0.8	1.1	0.9	1.4	1.1
137.5°	0.9	1.0	0.8	1.1	0.9	1.4	1.1
138°	0.9	1.0	0.8	1.1	0.9	1.4	1.1
138.5°	0.9	1.0	0.8	1.1	0.9	1.4	1.2
139°	0.9	1.0	0.8	1.1	0.9	1.4	1.1
139.5°	0.9	1.0	0.8	1.1	0.9	1.4	1.1
140°	0.9	1.0	0.8	1.2	0.9	1.4	1.2
140.5°	0.9	1.0	0.8	1.2	0.9	1.4	1.2
141°	0.9	1.1	0.8	1.2	0.9	1.4	1.2
141.5°	0.9	1.1	0.8	1.1	0.9	1.4	1.2
142°	0.9	1.1	0.8	1.1	0.9	1.4	1.2
142.5°	0.9	1.1	0.8	1.2	0.9	1.4	1.2
143°	0.9	1.1	0.8	1.2	0.9	1.4	1.2
143.5°	0.9	1.1	0.8	1.2	1.0	1.4	1.2
144°	1.0	1.1	0.8	1.2	1.0	1.4	1.2
144.5°	1.0	1.1	0.9	1.2	0.9	1.4	1.2
145°	1.0	1.1	0.9	1.2	0.9	1.4	1.2
145.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
146°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
146.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
147°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
147.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
148°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
148.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
149°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
149.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
150°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
150.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
151°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
151.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
152°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
152.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
153°	1.0	1.3	0.9	1.2	1.0	1.4	1.2
153.5°	1.0	1.1	1.0	1.3	1.0	1.4	1.2
154°	1.0	1.1	1.0	1.3	1.0	1.4	1.2
154.5°	1.0	1.1	0.9	1.2	1.0	1.4	1.2
155°	1.1	1.1	1.0	1.3	1.0	1.4	1.2
155.5°	1.1	1.1	1.0	1.3	1.0	1.4	1.2
156°	1.0	1.1	1.0	1.3	1.0	1.4	1.2
156.5°	1.1	1.3	1.0	1.3	1.0	1.3	1.2
157°	1.1	1.3	1.0	1.3	1.0	1.3	1.2

REPORT NUMBER: P1197006

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
158°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
158.5°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
159°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
159.5°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
160°	1.1	1.3	1.0	1.3	1.2	1.4	1.2
160.5°	1.1	1.3	1.0	1.3	1.2	1.4	1.2
161°	1.1	1.1	1.0	1.3	1.0	1.4	1.2
161.5°	1.1	1.1	1.0	1.3	1.2	1.4	1.2
162°	1.1	1.3	1.0	1.3	1.2	1.3	1.2
162.5°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
163°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
163.5°	1.1	1.3	1.0	1.3	1.2	1.4	1.2
164°	1.1	1.3	1.0	1.3	1.2	1.3	1.2
164.5°	1.1	1.3	1.0	1.3	1.0	1.3	1.2
165°	1.1	1.3	1.0	1.3	1.0	1.4	1.2
165.5°	1.1	1.3	1.0	1.3	1.2	1.3	1.2
166°	1.1	1.3	1.0	1.3	1.2	1.3	1.2
166.5°	1.1	1.3	1.2	1.3	1.2	1.3	1.2
167°	1.1	1.3	1.2	1.3	1.2	1.3	1.2
167.5°	1.1	1.3	1.0	1.3	1.2	1.3	1.2
168°	1.1	1.3	1.0	1.3	1.2	1.3	1.2
168.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
169°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
169.5°	1.1	1.3	1.0	1.3	1.2	1.3	1.2
170°	1.1	1.3	1.2	1.3	1.2	1.3	1.2
170.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
171°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
171.5°	1.3	1.3	1.2	1.3	1.0	1.3	1.2
172°	1.1	1.3	1.2	1.3	1.0	1.3	1.2
172.5°	1.1	1.3	1.2	1.3	1.2	1.3	1.2
173°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
173.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
174°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
174.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
175°	1.3	1.3	1.0	1.3	1.2	1.3	1.2
175.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
176°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
176.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
177°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
177.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
178°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
178.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.3
179°	1.3	1.3	1.2	1.3	1.2	1.3	1.2
179.5°	1.3	1.3	1.2	1.3	1.2	1.3	1.2



REPORT NUMBER: P1197006
CATALOG NUMBER: AWPf28S-BZ-MID-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)