

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: P1197022

Luminaire Tested: AWPf28S-BZ-HIGH-5000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197022
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-HIGH-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: 3642 lumens
Efficiency: 103.4%
Efficacy: 125.2 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): 29.1
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

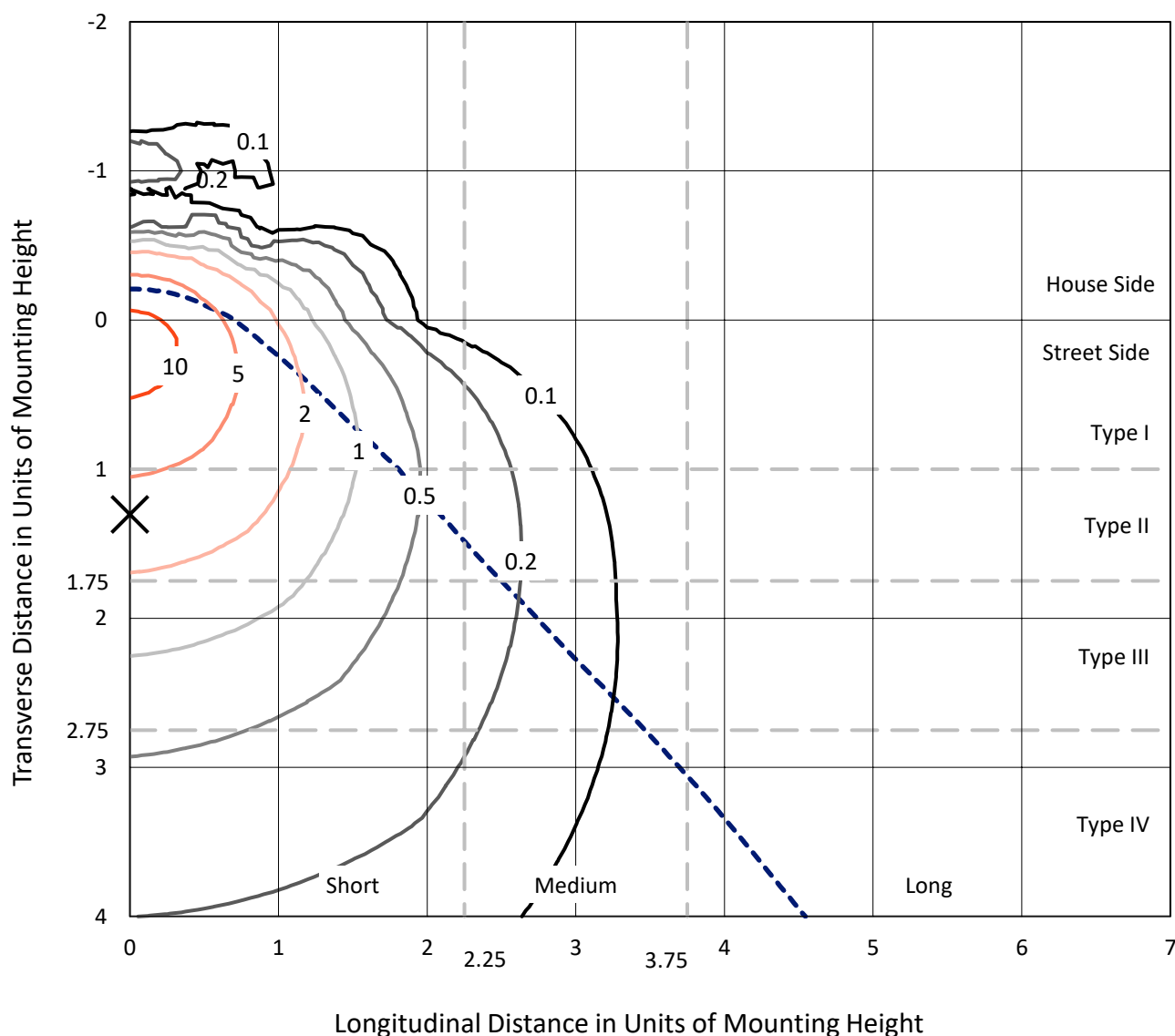
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

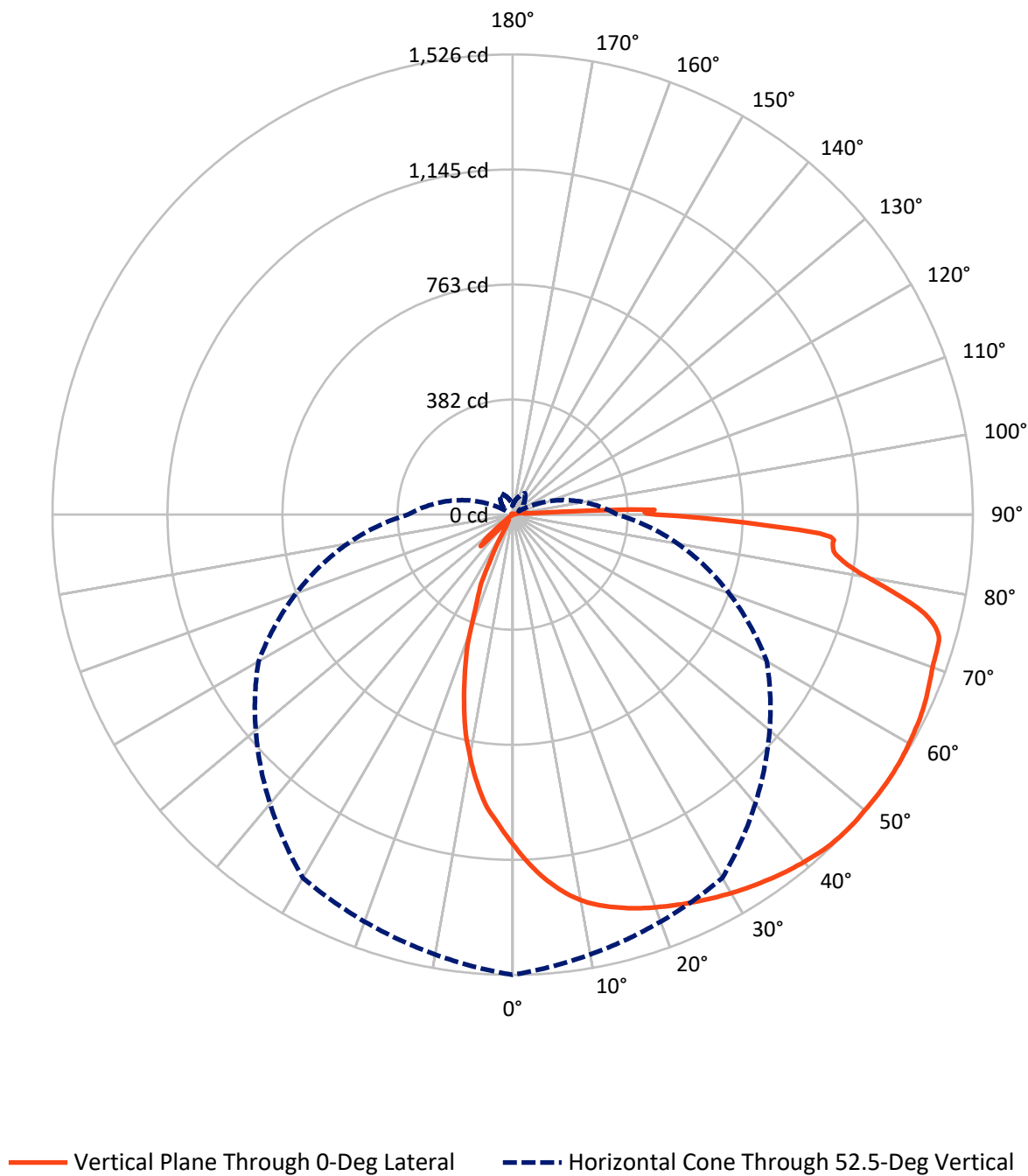


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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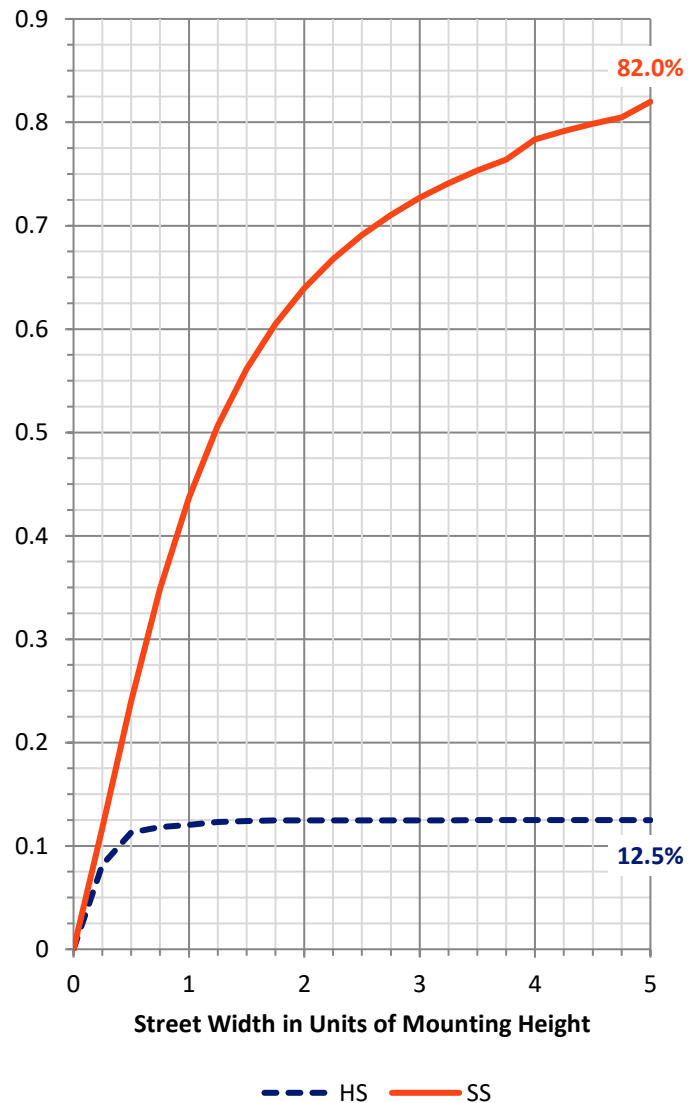
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.7	8.4	454.2
	% Lamp	12.7	0.2	12.9
Street Side	Lumens	3125.2	62.6	3187.8
	% Lamp	88.8	1.8	90.5
Total	Lumens	3570.9	71.1	3642.0
	% Lamp	101.4	2.0	103.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	104.4	2.9	3.0
10°-20°	288.9	7.9	8.2
20°-30°	404.9	11.1	11.5
30°-40°	461.5	12.7	13.1
40°-50°	499.7	13.7	14.2
50°-60°	514.2	14.1	14.6
60°-70°	490.6	13.5	13.9
70°-80°	461.3	12.7	13.1
80°-90°	345.4	9.5	9.8
90°-100°	58.5	1.6	1.7
100°-110°	4.6	0.1	0.1
110°-120°	1.5	0.0	0.0
120°-130°	1.5	0.0	0.0
130°-140°	1.5	0.0	0.0
140°-150°	1.4	0.0	0.0
150°-160°	1.1	0.0	0.0
160°-170°	0.7	0.0	0.0
170°-180°	0.3	0.0	0.0
0°-90°	3570.9	98.0	101.4
0°-180°	3642.0	100.0	103.4

Coefficient of Utilization



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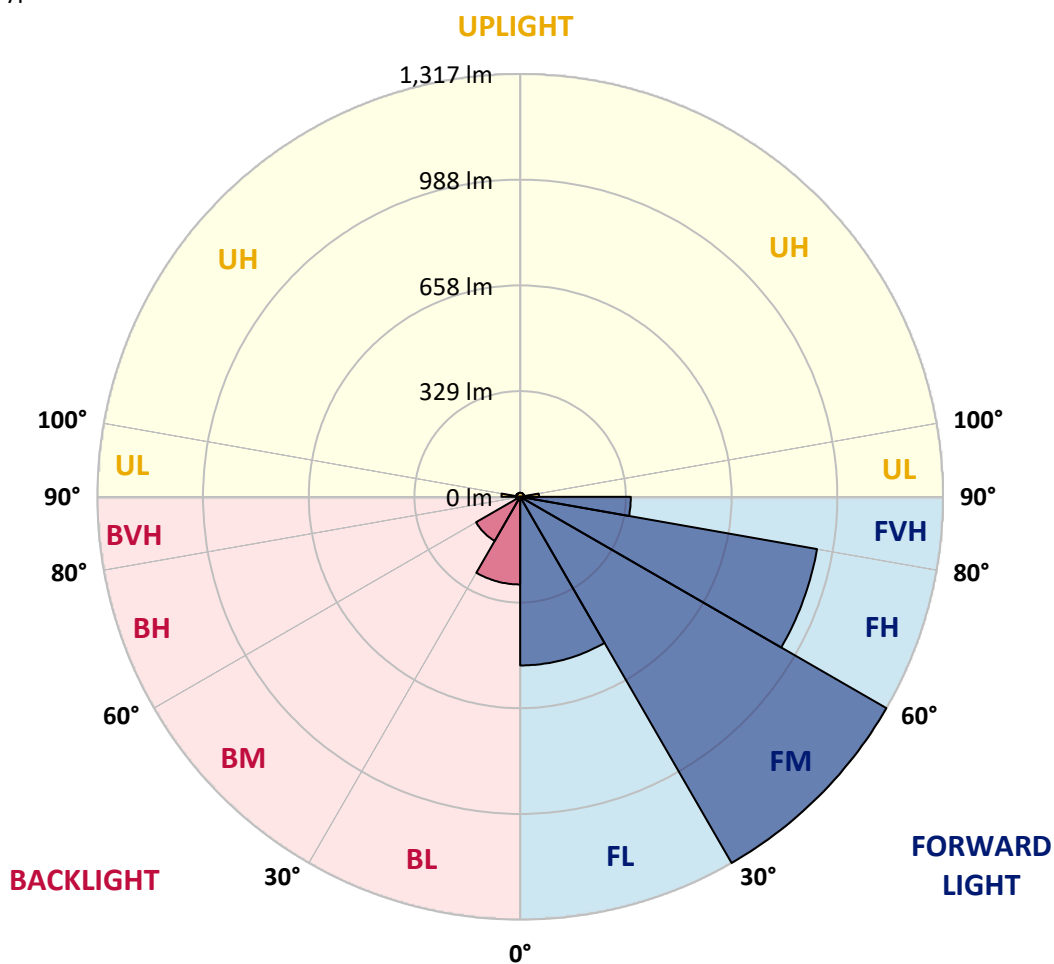
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.1	14.9			
FM	(30°-60°)	1316.9	37.4			
FH	(60°-80°)	938.8	26.7			G1/1800
FVH	(80°-90°)	344.4	9.8			G3/500
BL	(0°-30°)	273.0	7.8	B1/500		
BM	(30°-60°)	158.5	4.5	B0/220		
BH	(60°-80°)	13.2	0.4	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	58.5	1.7		U3/500	
UH	(100°-180°)	12.6	0.4		U2/50	
Trapped Light		-121.0	-3.4			

BUG Rating: B1-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
0.5°	1116.8	1115.1	1110.5	1104.0	1098.0	1093.3	1092.2
1°	1129.3	1125.6	1116.9	1103.9	1091.7	1082.5	1079.6
1.5°	1141.5	1136.2	1123.1	1103.7	1085.4	1071.8	1067.3
2°	1153.7	1146.5	1128.8	1103.3	1079.2	1061.1	1054.8
2.5°	1166.1	1157.1	1134.4	1102.9	1072.8	1050.2	1042.9
3°	1177.7	1166.9	1140.1	1102.3	1066.2	1039.7	1030.6
3.5°	1189.5	1176.7	1146.0	1101.7	1059.2	1029.0	1019.2
4°	1200.4	1186.4	1151.4	1100.9	1052.5	1018.8	1007.8
4.5°	1210.5	1195.4	1156.3	1100.0	1045.9	1009.4	997.0
5°	1220.6	1203.6	1161.7	1098.7	1039.0	999.4	986.5
5.5°	1230.7	1212.2	1166.5	1097.4	1031.9	989.7	974.6
6°	1240.4	1220.9	1171.5	1096.1	1024.8	978.4	961.1
6.5°	1249.5	1228.5	1176.1	1094.7	1017.9	966.4	946.9
7°	1258.7	1236.1	1180.6	1093.4	1011.0	953.6	931.0
7.5°	1267.7	1243.6	1184.8	1091.5	1004.0	939.4	914.7
8°	1275.5	1251.0	1188.7	1089.7	997.5	924.7	898.3
8.5°	1283.5	1258.0	1192.6	1087.6	990.8	910.3	882.7
9°	1291.0	1264.7	1196.5	1085.7	983.5	896.4	865.6
9.5°	1298.2	1271.1	1200.6	1083.4	976.5	880.9	848.0
10°	1304.4	1277.3	1204.6	1081.2	968.8	865.4	831.2
10.5°	1310.7	1283.4	1208.0	1078.8	960.7	849.6	813.5
11°	1316.1	1288.7	1211.7	1076.2	951.9	834.0	796.2
11.5°	1321.4	1293.8	1215.0	1073.5	943.3	818.1	779.3
12°	1326.7	1298.9	1218.3	1070.5	933.6	802.3	762.9
12.5°	1331.6	1303.3	1221.3	1067.4	923.9	786.6	744.5
13°	1336.0	1307.4	1224.0	1064.0	913.3	771.4	725.5
13.5°	1340.4	1311.0	1226.5	1060.7	902.5	755.2	705.1
14°	1344.9	1314.5	1229.0	1057.2	891.6	738.8	684.4
14.5°	1348.7	1317.9	1231.3	1053.5	880.6	720.5	664.4
15°	1352.9	1321.2	1233.2	1049.9	869.6	702.5	643.0
15.5°	1357.1	1324.6	1235.0	1045.8	858.2	683.7	622.9
16°	1361.2	1328.0	1236.5	1041.6	846.1	664.5	601.6
16.5°	1365.0	1330.7	1237.9	1037.1	834.6	644.8	580.1
17°	1368.7	1333.6	1239.2	1032.1	823.0	625.3	560.2
17.5°	1372.2	1336.5	1240.1	1027.3	810.7	605.4	540.2
18°	1375.7	1339.1	1240.8	1022.1	798.5	585.7	520.8
18.5°	1379.9	1341.4	1241.4	1016.9	785.5	566.4	500.0
19°	1383.0	1343.8	1241.6	1011.6	772.7	547.1	479.2
19.5°	1385.8	1346.3	1241.6	1006.3	759.8	528.8	458.8
20°	1389.1	1348.4	1241.8	1000.8	747.3	510.5	433.6
20.5°	1392.5	1350.4	1241.8	995.5	735.3	492.0	406.6
21°	1395.6	1352.6	1241.5	989.5	723.2	473.7	382.1
21.5°	1398.8	1354.9	1241.1	983.1	710.2	454.0	360.6
22°	1401.9	1356.4	1240.4	976.7	697.0	434.7	340.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1405.4	1358.3	1239.5	969.9	682.9	411.1	322.8
23°	1408.9	1360.0	1238.4	963.0	667.7	387.2	306.8
23.5°	1412.1	1361.7	1236.8	956.1	652.0	364.6	292.6
24°	1415.1	1363.6	1235.3	949.0	637.3	344.5	278.5
24.5°	1418.0	1365.1	1233.6	942.1	622.3	326.5	264.4
25°	1421.2	1367.2	1232.2	935.2	605.6	310.6	250.2
25.5°	1424.5	1369.1	1230.1	928.0	588.8	297.1	229.5
26°	1427.7	1371.0	1227.7	920.6	572.1	283.7	203.4
26.5°	1430.9	1372.8	1225.1	913.1	555.4	270.3	175.0
27°	1434.1	1374.3	1222.2	905.9	538.7	256.8	151.9
27.5°	1437.0	1375.8	1219.1	898.4	523.0	242.1	132.8
28°	1440.2	1377.6	1215.7	891.1	506.5	224.3	115.3
28.5°	1443.1	1379.2	1212.2	883.8	490.1	200.4	97.6
29°	1446.1	1380.7	1208.7	875.7	474.1	175.1	76.5
29.5°	1449.4	1382.3	1205.4	867.4	458.0	151.9	56.1
30°	1452.7	1383.5	1201.6	858.8	442.4	132.2	42.2
30.5°	1455.6	1384.9	1198.0	850.6	426.9	115.9	36.6
31°	1458.2	1386.6	1194.4	842.2	411.7	100.1	34.3
31.5°	1461.3	1387.7	1190.8	834.0	396.4	82.9	33.1
32°	1463.9	1388.8	1187.2	825.3	381.7	64.6	32.3
32.5°	1466.9	1390.1	1183.4	816.2	367.7	49.6	31.5
33°	1469.5	1391.4	1179.9	806.6	354.1	40.3	30.7
33.5°	1472.4	1392.4	1176.3	797.0	339.7	36.1	29.8
34°	1475.0	1393.5	1172.5	787.5	325.9	34.3	28.8
34.5°	1477.9	1394.5	1168.5	777.6	312.4	33.0	27.7
35°	1480.9	1395.3	1164.5	766.9	299.5	32.1	26.5
35.5°	1483.5	1396.2	1160.7	756.5	285.5	31.4	25.6
36°	1486.3	1396.9	1156.9	745.9	270.7	30.7	25.0
36.5°	1489.2	1397.7	1152.8	735.1	255.7	30.0	24.6
37°	1491.7	1398.3	1148.6	724.0	241.8	29.4	24.5
37.5°	1494.2	1398.8	1144.1	713.0	228.6	28.8	24.2
38°	1496.6	1399.5	1139.6	701.4	215.6	28.3	23.9
38.5°	1498.7	1400.1	1135.2	689.7	201.9	27.9	23.4
39°	1501.3	1400.6	1130.7	678.3	185.6	27.5	23.0
39.5°	1503.8	1401.4	1126.3	666.8	166.2	26.8	22.5
40°	1505.9	1401.7	1121.3	654.6	144.0	26.0	22.0
40.5°	1507.9	1401.7	1116.4	642.7	120.8	25.1	21.5
41°	1510.1	1401.8	1111.3	630.7	99.1	24.3	21.1
41.5°	1512.7	1402.3	1106.6	618.8	81.7	23.4	21.0
42°	1514.8	1403.0	1102.2	606.8	68.8	22.3	21.2
42.5°	1516.4	1403.5	1097.0	594.9	59.6	21.4	22.2
43°	1518.5	1403.6	1091.8	583.1	53.5	20.7	25.2
43.5°	1519.9	1403.4	1087.0	571.5	49.2	20.1	36.2
44°	1520.7	1403.3	1081.5	559.6	45.7	19.5	61.5
44.5°	1521.8	1403.1	1076.0	547.9	42.9	18.6	84.6

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CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1522.9	1402.7	1070.5	535.9	40.6	18.1	103.2
45.5°	1523.6	1402.0	1064.7	524.2	38.8	17.6	134.5
46°	1524.5	1401.4	1058.8	511.8	37.2	17.3	148.9
46.5°	1525.0	1401.2	1052.9	499.4	35.1	17.0	138.8
47°	1525.5	1400.8	1047.1	486.8	33.0	16.9	133.3
47.5°	1525.7	1400.4	1041.0	474.8	31.7	16.7	130.2
48°	1525.6	1400.0	1034.8	462.7	30.6	16.6	124.4
48.5°	1525.7	1399.2	1028.5	450.3	29.6	16.7	116.5
49°	1525.3	1399.0	1021.9	437.4	28.6	17.3	104.0
49.5°	1525.2	1398.5	1015.3	424.7	27.8	19.0	91.5
50°	1525.3	1397.6	1008.7	412.3	27.0	25.6	78.1
50.5°	1525.6	1396.7	1001.7	399.4	26.2	38.6	63.2
51°	1525.7	1395.5	994.8	386.5	25.3	52.8	50.4
51.5°	1525.7	1394.2	987.8	373.4	24.5	58.1	41.3
52°	1526.2	1392.4	980.5	360.7	23.7	69.3	35.0
52.5°	1526.4	1391.1	973.2	347.4	23.0	82.1	29.9
53°	1526.3	1389.0	965.7	333.5	22.3	75.6	25.1
53.5°	1526.3	1387.2	958.1	320.0	21.6	70.2	21.1
54°	1526.4	1385.7	950.7	306.2	21.0	67.4	17.3
54.5°	1526.2	1384.4	943.2	291.7	20.4	65.1	14.4
55°	1525.9	1383.4	935.6	277.1	19.9	63.5	12.3
55.5°	1525.5	1382.2	927.7	262.6	19.4	61.7	10.8
56°	1524.7	1381.0	919.7	248.1	18.9	59.3	9.5
56.5°	1524.4	1380.0	912.2	233.1	18.5	56.7	8.5
57°	1523.7	1378.8	904.0	217.8	18.0	53.6	7.8
57.5°	1522.8	1377.8	895.9	203.5	17.6	50.3	7.2
58°	1521.8	1376.9	888.3	190.3	17.0	46.9	6.6
58.5°	1520.8	1375.4	880.1	178.5	16.5	43.2	6.1
59°	1519.7	1374.3	871.6	168.7	15.9	39.4	5.6
59.5°	1518.7	1372.7	863.6	160.5	15.3	35.6	5.0
60°	1517.3	1371.3	855.5	154.7	14.6	31.5	4.4
60.5°	1515.7	1369.4	847.9	150.9	14.0	27.5	3.7
61°	1514.8	1367.4	840.0	148.1	13.3	24.0	3.1
61.5°	1513.7	1364.9	832.4	139.2	12.7	20.7	2.7
62°	1513.0	1362.2	824.2	121.3	11.8	17.7	2.6
62.5°	1511.6	1359.8	815.8	100.2	11.1	14.2	2.5
63°	1510.2	1357.0	808.0	84.3	10.5	9.9	2.4
63.5°	1508.6	1353.7	799.8	76.1	9.9	5.2	2.2
64°	1507.0	1350.6	791.8	72.3	9.4	2.6	2.0
64.5°	1504.9	1347.4	783.1	69.8	8.9	1.8	1.8
65°	1502.9	1344.6	773.8	67.5	8.5	1.6	1.5
65.5°	1501.1	1341.3	765.0	65.3	8.0	1.6	1.3
66°	1498.7	1338.3	755.9	63.3	7.6	1.6	1.3
66.5°	1496.0	1335.4	747.0	61.4	7.2	1.6	1.3
67°	1493.3	1332.5	738.5	59.7	6.8	1.5	1.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1490.8	1330.2	729.8	58.0	6.4	1.3	1.0
68°	1488.8	1328.3	721.0	56.5	5.9	1.0	0.9
68.5°	1486.5	1325.9	712.2	55.1	5.3	0.9	0.8
69°	1484.2	1323.5	703.3	54.0	4.8	0.8	0.8
69.5°	1482.4	1320.7	694.3	53.0	4.2	0.8	0.8
70°	1480.5	1317.9	685.8	52.1	3.6	0.8	0.8
70.5°	1479.5	1315.2	677.1	51.1	3.2	0.8	0.7
71°	1478.9	1313.0	668.1	50.2	2.9	0.8	0.7
71.5°	1478.0	1310.3	659.8	49.4	2.6	0.7	0.7
72°	1476.5	1307.9	651.9	48.6	2.3	0.7	0.7
72.5°	1475.8	1305.6	643.6	47.6	2.1	0.7	0.7
73°	1474.8	1302.7	635.9	46.5	1.8	0.7	0.7
73.5°	1470.8	1299.3	626.6	45.8	1.6	0.7	0.7
74°	1464.1	1296.0	617.3	44.4	1.3	0.7	0.8
74.5°	1453.8	1293.1	607.9	41.9	1.1	0.7	0.9
75°	1440.8	1292.1	598.8	39.0	1.0	0.7	0.9
75.5°	1424.1	1290.6	590.4	35.7	0.9	0.7	0.9
76°	1404.4	1287.8	582.9	32.7	0.9	0.7	1.0
76.5°	1379.7	1284.0	575.3	28.8	0.8	0.7	1.0
77°	1351.2	1277.4	567.8	25.4	0.7	0.6	1.0
77.5°	1320.4	1268.5	560.3	23.0	0.6	0.6	1.0
78°	1288.6	1257.5	552.8	20.9	0.6	0.6	1.1
78.5°	1255.9	1242.8	546.8	19.0	0.5	0.6	1.2
79°	1224.2	1224.0	541.1	17.4	0.5	0.6	1.2
79.5°	1193.8	1202.8	535.6	15.8	0.5	0.6	1.2
80°	1166.1	1179.3	531.0	14.4	0.5	0.6	1.2
80.5°	1143.9	1158.2	526.3	13.3	0.5	0.6	1.2
81°	1123.0	1141.1	521.2	12.0	0.5	0.7	1.3
81.5°	1106.7	1130.8	516.0	10.7	0.5	0.7	1.3
82°	1092.9	1128.0	511.3	9.7	0.5	0.7	1.4
82.5°	1079.3	1130.5	508.2	8.8	0.5	0.7	1.5
83°	1072.3	1134.3	506.8	8.1	0.5	0.8	1.5
83.5°	1068.6	1138.6	507.6	7.4	0.5	0.8	1.6
84°	1067.2	1130.0	509.7	6.7	0.5	0.9	1.6
84.5°	1066.6	1104.6	512.9	6.2	0.6	0.9	1.6
85°	1069.6	1063.9	516.8	5.6	0.6	0.9	1.7
85.5°	1058.7	1007.4	519.7	5.2	0.6	1.0	1.8
86°	1019.6	934.5	518.5	4.7	0.6	1.0	1.8
86.5°	948.3	849.6	516.6	4.3	0.7	1.0	1.9
87°	850.4	775.5	512.1	4.0	0.7	1.1	1.9
87.5°	775.1	709.6	499.0	3.6	0.7	1.1	2.0
88°	699.8	649.6	479.5	3.2	0.7	1.2	2.1
88.5°	624.5	588.0	453.8	2.9	0.8	1.2	2.1
89°	549.1	518.0	421.1	2.6	0.8	1.3	2.1
89.5°	474.6	489.4	381.8	2.3	0.8	1.3	2.2

REPORT NUMBER: P1197022

CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	443.9	499.1	338.4	1.8	0.9	1.3	2.2
90.5°	438.3	513.6	291.3	1.6	0.9	1.4	2.3
91°	462.4	489.9	244.5	1.4	0.9	1.5	2.4
91.5°	470.9	411.5	200.5	1.3	1.0	1.5	2.4
92°	391.0	293.6	165.6	1.2	1.0	1.5	2.4
92.5°	253.9	230.2	138.0	1.1	1.0	1.6	2.5
93°	160.4	168.0	112.4	1.0	1.1	1.6	2.5
93.5°	88.7	106.0	87.9	0.9	1.1	1.7	2.6
94°	48.9	44.0	69.1	0.8	1.1	1.7	2.7
94.5°	40.8	35.5	56.5	0.7	1.2	1.8	2.7
95°	41.0	32.3	50.3	0.7	1.2	1.8	2.7
95.5°	40.3	30.1	49.4	0.7	1.3	1.9	2.8
96°	39.0	29.0	51.7	0.7	1.3	1.9	2.8
96.5°	39.7	29.5	54.4	0.7	1.3	2.0	2.9
97°	43.6	30.9	58.4	0.7	1.4	2.0	2.9
97.5°	44.5	29.8	55.5	0.7	1.4	2.1	2.9
98°	40.5	27.4	44.2	0.7	1.4	2.1	3.0
98.5°	34.9	26.2	32.0	0.6	1.5	2.2	3.0
99°	31.0	25.2	22.9	0.6	1.5	2.2	3.0
99.5°	30.1	23.0	19.4	0.6	1.5	2.2	3.1
100°	29.9	21.7	16.3	0.6	1.6	2.3	3.1
100.5°	28.2	21.2	13.6	0.6	1.6	2.3	3.1
101°	26.4	20.9	11.7	0.6	1.7	2.4	3.2
101.5°	24.6	20.3	10.3	0.6	1.7	2.4	3.2
102°	22.4	19.0	8.6	0.6	1.7	2.5	3.3
102.5°	19.8	16.8	6.9	0.6	1.7	2.5	3.3
103°	16.9	14.2	5.6	0.6	1.8	2.5	3.3
103.5°	14.3	11.5	4.7	0.6	1.8	2.6	3.4
104°	12.4	9.0	3.9	0.6	1.8	2.6	3.4
104.5°	11.1	6.9	3.2	0.6	1.9	2.7	3.4
105°	10.1	5.0	2.7	0.7	1.9	2.7	3.4
105.5°	9.1	3.6	2.3	0.7	1.9	2.7	3.5
106°	7.5	2.8	2.0	0.7	2.0	2.8	3.5
106.5°	5.6	2.2	1.7	0.7	2.0	2.8	3.6
107°	3.8	1.8	1.5	0.7	2.0	2.9	3.6
107.5°	2.4	1.5	1.2	0.7	2.1	2.9	3.6
108°	1.7	1.2	1.0	0.7	2.1	2.9	3.6
108.5°	1.3	1.0	0.9	0.8	2.1	2.9	3.6
109°	1.1	0.8	0.7	0.8	2.2	2.9	3.6
109.5°	0.8	0.5	0.6	0.8	2.2	3.0	3.6
110°	0.6	0.3	0.6	0.8	2.2	3.0	3.6
110.5°	0.4	0.2	0.5	0.9	2.2	3.0	3.7
111°	0.2	0.1	0.4	0.9	2.2	3.1	3.7
111.5°	0.0	0.0	0.4	0.9	2.3	3.1	3.7
112°	0.0	0.0	0.3	0.9	2.3	3.1	3.7

REPORT NUMBER: P1197022

CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.2	0.9	2.3	3.1	3.7
113°	0.0	0.0	0.2	0.9	2.3	3.2	3.7
113.5°	0.0	0.0	0.1	0.9	2.4	3.2	3.8
114°	0.0	0.0	0.1	0.9	2.4	3.2	3.8
114.5°	0.0	0.0	0.1	1.0	2.4	3.3	3.8
115°	0.0	0.0	0.1	1.0	2.4	3.3	3.8
115.5°	0.0	0.0	0.1	1.0	2.5	3.3	3.9
116°	0.0	0.0	0.1	1.0	2.5	3.3	3.9
116.5°	0.0	0.0	0.1	1.0	2.5	3.3	3.9
117°	0.0	0.0	0.1	1.0	2.5	3.4	3.9
117.5°	0.0	0.0	0.1	1.1	2.6	3.4	3.9
118°	0.0	0.0	0.1	1.1	2.6	3.4	3.9
118.5°	0.0	0.0	0.1	1.2	2.6	3.4	3.9
119°	0.0	0.0	0.2	1.2	2.6	3.4	3.9
119.5°	0.0	0.0	0.2	1.2	2.6	3.4	3.9
120°	0.0	0.0	0.2	1.2	2.6	3.5	3.9
120.5°	0.0	0.0	0.2	1.2	2.7	3.5	3.9
121°	0.0	0.0	0.2	1.2	2.7	3.5	3.9
121.5°	0.0	0.0	0.2	1.2	2.7	3.5	3.9
122°	0.0	0.0	0.3	1.2	2.7	3.6	3.9
122.5°	0.0	0.0	0.3	1.3	2.8	3.6	3.9
123°	0.0	0.0	0.3	1.3	2.8	3.6	3.9
123.5°	0.0	0.0	0.3	1.3	2.8	3.6	3.9
124°	0.0	0.0	0.3	1.3	2.8	3.6	3.9
124.5°	0.0	0.0	0.4	1.3	2.8	3.6	3.9
125°	0.0	0.0	0.4	1.4	2.8	3.7	3.9
125.5°	0.0	0.0	0.4	1.4	2.9	3.7	3.9
126°	0.0	0.0	0.4	1.5	2.9	3.7	3.9
126.5°	0.0	0.0	0.4	1.5	2.9	3.7	3.9
127°	0.0	0.0	0.5	1.5	2.9	3.7	3.9
127.5°	0.0	0.0	0.5	1.5	2.9	3.7	3.9
128°	0.0	0.0	0.5	1.5	2.9	3.7	3.9
128.5°	0.0	0.0	0.5	1.5	2.9	3.7	3.9
129°	0.0	0.0	0.5	1.5	2.9	3.7	4.0
129.5°	0.0	0.0	0.6	1.5	2.9	3.7	4.0
130°	0.0	0.0	0.6	1.6	2.9	3.7	4.0
130.5°	0.0	0.0	0.6	1.6	2.9	3.7	4.0
131°	0.0	0.0	0.7	1.6	3.0	3.8	4.0
131.5°	0.0	0.0	0.7	1.6	3.0	3.8	4.0
132°	0.0	0.0	0.7	1.6	3.0	3.8	4.0
132.5°	0.0	0.0	0.7	1.7	3.0	3.8	4.0
133°	0.0	0.0	0.7	1.7	3.0	3.8	4.0
133.5°	0.0	0.0	0.8	1.8	3.0	3.8	4.0
134°	0.0	0.0	0.8	1.8	3.0	3.8	4.0
134.5°	0.0	0.0	0.8	1.8	3.0	3.8	4.0

REPORT NUMBER: P1197022

CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.0	0.8	1.8	3.0	3.8	4.0
135.5°	0.0	0.1	0.9	1.8	3.0	3.8	4.0
136°	0.0	0.1	0.9	1.8	3.0	3.8	4.0
136.5°	0.0	0.1	0.9	1.8	3.0	3.8	4.0
137°	0.0	0.1	0.9	1.9	3.0	3.8	4.0
137.5°	0.0	0.1	1.0	1.9	3.1	3.8	4.0
138°	0.1	0.1	1.0	1.9	3.1	3.8	4.0
138.5°	0.1	0.2	1.0	1.9	3.1	3.8	4.0
139°	0.1	0.2	1.0	1.9	3.1	3.8	4.0
139.5°	0.1	0.3	1.1	1.9	3.1	3.8	4.0
140°	0.1	0.3	1.1	2.0	3.1	3.8	4.0
140.5°	0.1	0.3	1.1	2.0	3.1	3.8	4.0
141°	0.1	0.3	1.1	2.1	3.1	3.8	4.0
141.5°	0.1	0.3	1.2	2.1	3.1	3.8	4.0
142°	0.1	0.4	1.2	2.1	3.1	3.8	4.0
142.5°	0.2	0.4	1.2	2.1	3.1	3.8	4.0
143°	0.2	0.4	1.2	2.1	3.2	3.8	4.0
143.5°	0.2	0.4	1.3	2.1	3.2	3.8	3.9
144°	0.2	0.4	1.3	2.1	3.2	3.8	3.9
144.5°	0.2	0.4	1.3	2.1	3.2	3.8	3.9
145°	0.2	0.4	1.3	2.1	3.2	3.8	3.9
145.5°	0.3	0.5	1.4	2.2	3.2	3.8	3.9
146°	0.3	0.5	1.4	2.2	3.2	3.8	3.9
146.5°	0.3	0.5	1.4	2.2	3.2	3.8	3.8
147°	0.3	0.6	1.4	2.2	3.2	3.8	3.8
147.5°	0.3	0.6	1.4	2.2	3.2	3.8	3.8
148°	0.4	0.6	1.5	2.3	3.2	3.8	3.8
148.5°	0.4	0.7	1.5	2.3	3.2	3.8	3.8
149°	0.4	0.7	1.5	2.3	3.2	3.8	3.8
149.5°	0.4	0.7	1.5	2.3	3.2	3.8	3.8
150°	0.5	0.7	1.6	2.4	3.2	3.8	3.8
150.5°	0.5	0.8	1.6	2.4	3.2	3.8	3.8
151°	0.5	0.8	1.6	2.4	3.3	3.8	3.8
151.5°	0.5	0.9	1.6	2.4	3.3	3.8	3.8
152°	0.6	0.9	1.7	2.4	3.3	3.8	3.8
152.5°	0.6	0.9	1.7	2.4	3.3	3.8	3.7
153°	0.6	0.9	1.7	2.4	3.3	3.8	3.7
153.5°	0.7	0.9	1.7	2.4	3.3	3.8	3.7
154°	0.7	1.0	1.8	2.4	3.3	3.8	3.7
154.5°	0.7	1.0	1.8	2.5	3.3	3.8	3.7
155°	0.7	1.0	1.8	2.5	3.3	3.8	3.7
155.5°	0.7	1.1	1.8	2.5	3.3	3.8	3.6
156°	0.8	1.1	1.9	2.5	3.3	3.8	3.6
156.5°	0.8	1.2	1.9	2.5	3.3	3.8	3.6
157°	0.8	1.2	1.9	2.5	3.3	3.7	3.6

REPORT NUMBER: P1197022

CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.9	1.2	1.9	2.6	3.3	3.7	3.6
158°	0.9	1.2	1.9	2.6	3.3	3.7	3.6
158.5°	0.9	1.3	2.0	2.6	3.3	3.7	3.6
159°	0.9	1.3	2.0	2.6	3.3	3.7	3.5
159.5°	1.0	1.3	2.0	2.7	3.3	3.7	3.5
160°	1.0	1.4	2.0	2.7	3.3	3.7	3.5
160.5°	1.1	1.4	2.1	2.7	3.3	3.7	3.5
161°	1.1	1.4	2.1	2.7	3.3	3.7	3.5
161.5°	1.1	1.5	2.1	2.7	3.3	3.6	3.5
162°	1.1	1.5	2.2	2.7	3.3	3.6	3.4
162.5°	1.2	1.5	2.2	2.7	3.3	3.6	3.4
163°	1.2	1.5	2.2	2.7	3.3	3.6	3.4
163.5°	1.2	1.6	2.2	2.7	3.3	3.6	3.4
164°	1.3	1.6	2.2	2.8	3.3	3.5	3.3
164.5°	1.3	1.6	2.2	2.8	3.3	3.5	3.3
165°	1.3	1.6	2.3	2.8	3.3	3.5	3.3
165.5°	1.3	1.7	2.3	2.8	3.3	3.5	3.3
166°	1.4	1.8	2.3	2.8	3.3	3.5	3.3
166.5°	1.4	1.8	2.3	2.8	3.3	3.5	3.2
167°	1.4	1.8	2.4	2.8	3.3	3.5	3.2
167.5°	1.5	1.8	2.4	2.9	3.3	3.5	3.2
168°	1.5	1.8	2.4	2.9	3.3	3.5	3.2
168.5°	1.5	1.9	2.4	2.9	3.3	3.5	3.2
169°	1.6	1.9	2.5	2.9	3.3	3.5	3.1
169.5°	1.6	1.9	2.5	2.9	3.3	3.5	3.1
170°	1.7	2.0	2.5	2.9	3.3	3.4	3.1
170.5°	1.7	2.0	2.5	2.9	3.2	3.4	3.0
171°	1.7	2.1	2.5	2.9	3.2	3.4	3.0
171.5°	1.7	2.1	2.6	2.9	3.2	3.4	3.0
172°	1.8	2.1	2.6	2.9	3.2	3.4	3.0
172.5°	1.8	2.1	2.6	2.9	3.2	3.3	2.9
173°	1.9	2.1	2.7	3.0	3.2	3.3	2.9
173.5°	1.9	2.2	2.7	3.0	3.2	3.3	2.9
174°	1.9	2.2	2.7	3.0	3.2	3.3	2.8
174.5°	1.9	2.2	2.7	3.0	3.2	3.2	2.8
175°	2.0	2.3	2.8	3.0	3.2	3.2	2.8
175.5°	2.0	2.3	2.8	3.0	3.2	3.2	2.7
176°	2.1	2.4	2.8	3.0	3.2	3.2	2.7
176.5°	2.1	2.4	2.8	3.0	3.2	3.2	2.6
177°	2.2	2.4	2.8	3.0	3.1	3.2	2.6
177.5°	2.2	2.4	2.9	3.0	3.1	3.2	2.6
178°	2.2	2.5	2.9	3.0	3.1	3.1	2.5
178.5°	2.3	2.5	2.9	3.0	3.1	3.1	2.5
179°	2.3	2.5	2.9	3.0	3.1	3.1	2.5
179.5°	2.3	2.6	2.9	3.0	3.1	3.1	2.4



REPORT NUMBER: P1197022
CATALOG NUMBER: AWPf28S-BZ-HIGH-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	3.0	3.0	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)