

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: P1197013

Luminaire Tested: AWPf28S-BZ-HIGH-5000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197013
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 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 86 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3604 (1 lamp)
Luminaire Lumens: 3807.9 lumens
Efficiency: 105.7%
Efficacy: 130.9 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 - U2 - 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

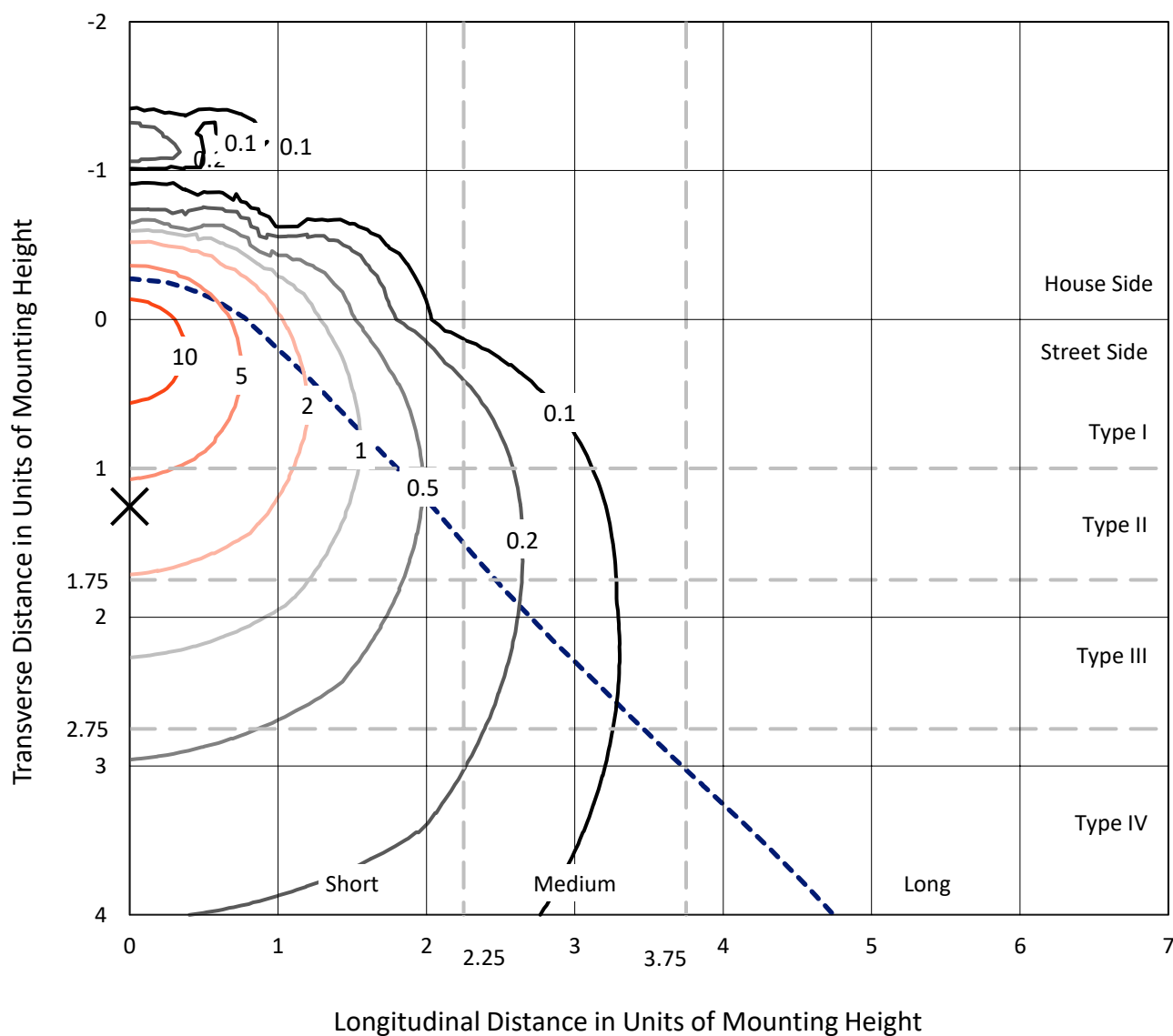
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

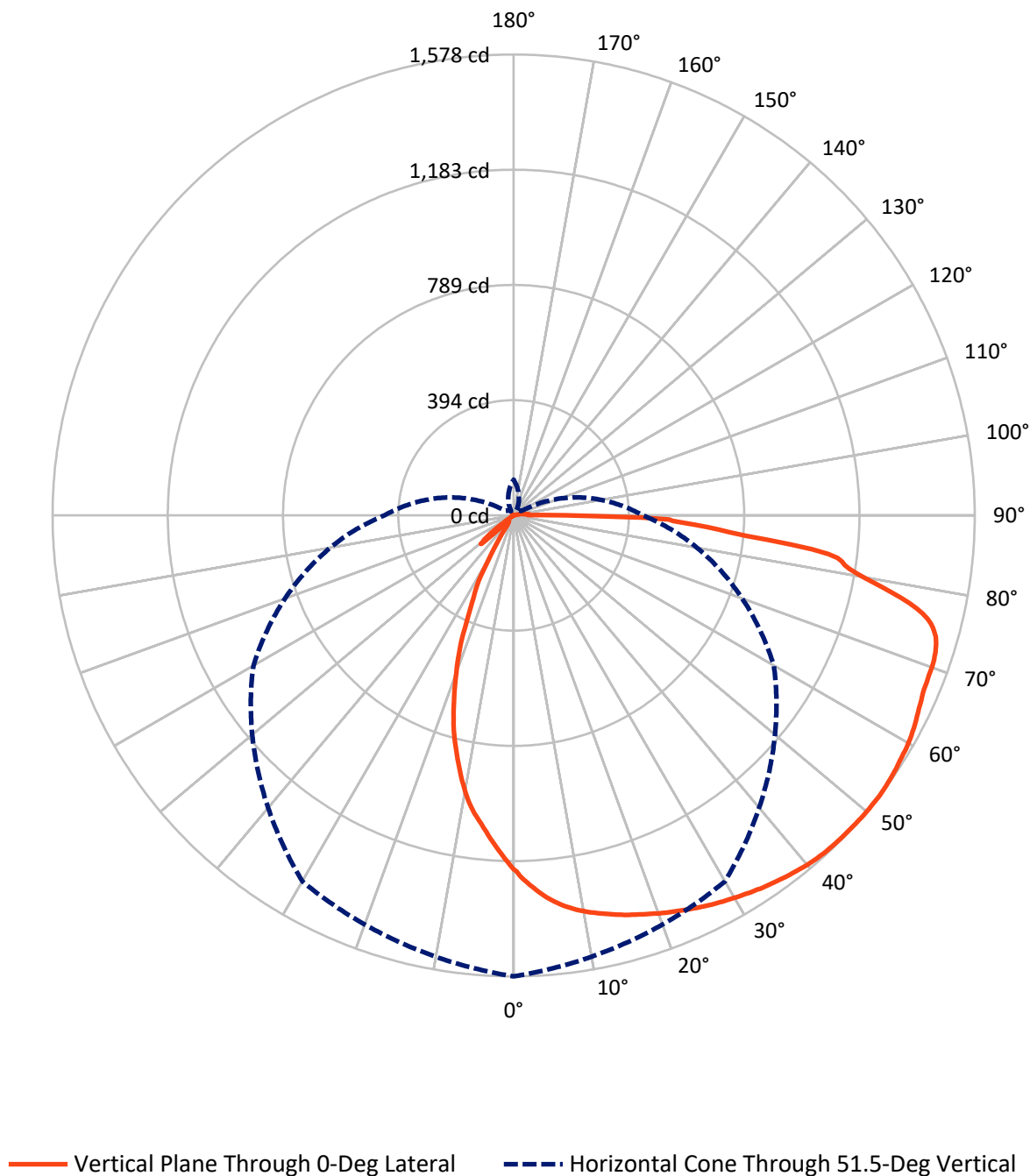


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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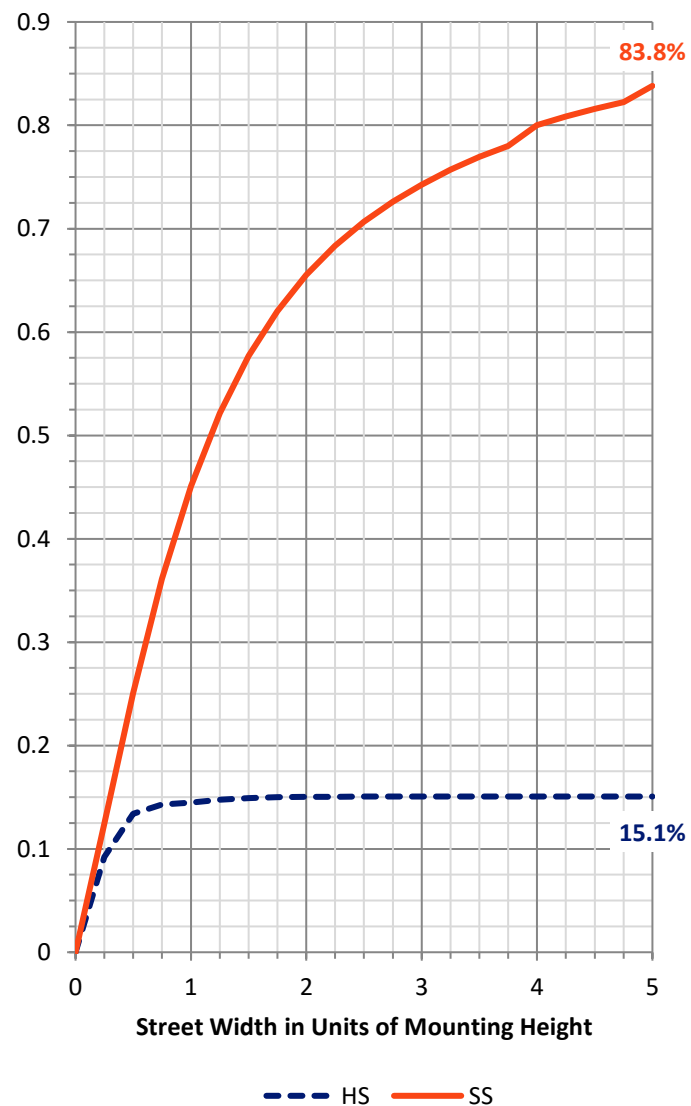
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.3	8.5	557.9
	% Lamp	15.2	0.2	15.5
Street Side	Lumens	3219.8	30.3	3250.1
	% Lamp	89.3	0.8	90.2
Total	Lumens	3769.2	38.8	3807.9
	% Lamp	104.6	1.1	105.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	114.6	3.0	3.2
10°-20°	319.3	8.4	8.9
20°-30°	453.1	11.9	12.6
30°-40°	506.8	13.3	14.1
40°-50°	532.0	14.0	14.8
50°-60°	542.9	14.3	15.1
60°-70°	509.7	13.4	14.1
70°-80°	478.2	12.6	13.3
80°-90°	312.5	8.2	8.7
90°-100°	26.9	0.7	0.7
100°-110°	3.5	0.1	0.1
110°-120°	1.5	0.0	0.0
120°-130°	1.6	0.0	0.0
130°-140°	1.6	0.0	0.0
140°-150°	1.5	0.0	0.0
150°-160°	1.2	0.0	0.0
160°-170°	0.8	0.0	0.0
170°-180°	0.3	0.0	0.0
0°-90°	3769.2	99.0	104.6
0°-180°	3807.9	100.0	105.7

Coefficient of Utilization



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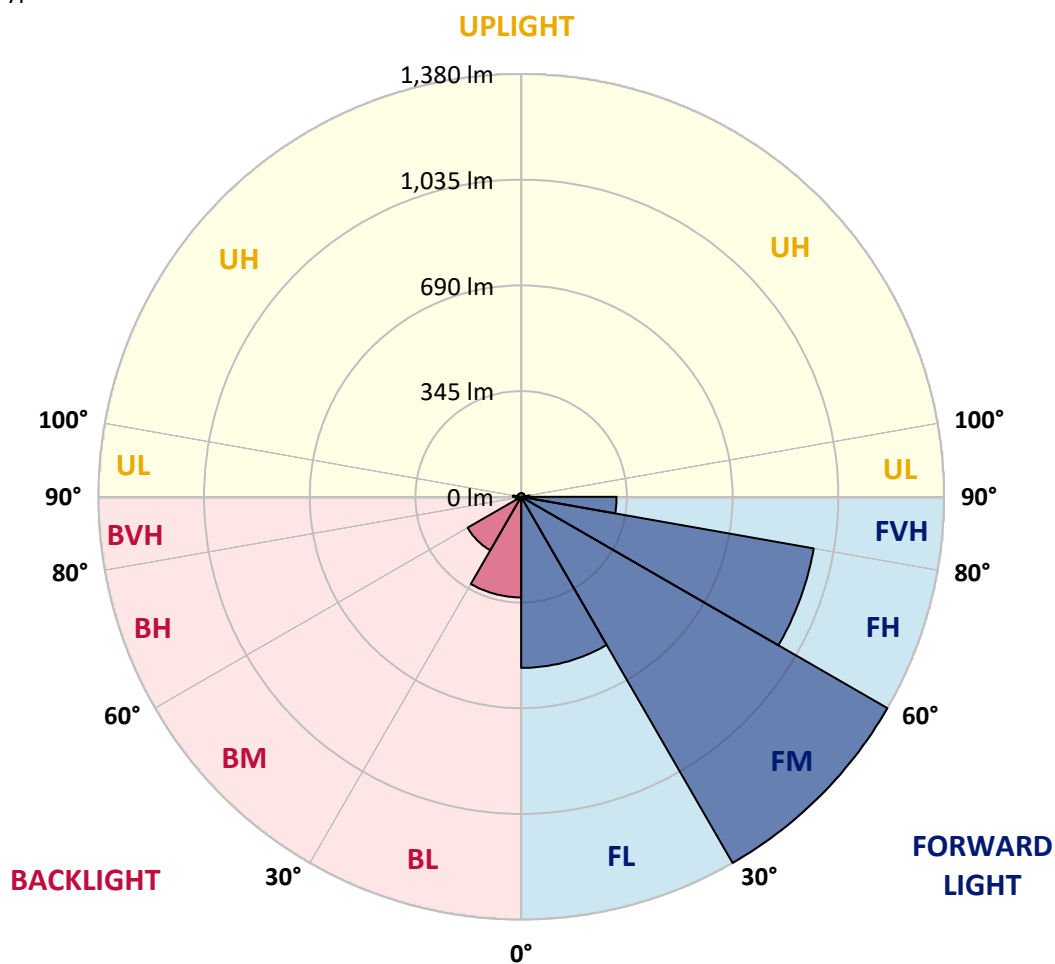
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.4	15.5			
FM	(30°-60°)	1380.2	38.3			
FH	(60°-80°)	969.7	26.9			G1/1800
FVH	(80°-90°)	311.5	8.6			G3/500
BL	(0°-30°)	328.5	9.1	B1/500		
BM	(30°-60°)	201.6	5.6	B0/220		
BH	(60°-80°)	18.2	0.5	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	26.9	0.7		U2/50	
UH	(100°-180°)	11.8	0.3		U2/50	
Trapped Light		-203.9	-5.7			

BUG Rating: B1-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
0.5°	1234.7	1235.7	1228.1	1219.6	1209.9	1198.4	1210.9
1°	1245.2	1244.4	1233.7	1219.4	1203.9	1187.7	1198.6
1.5°	1255.5	1253.3	1238.7	1219.0	1197.6	1176.8	1186.5
2°	1265.9	1262.3	1243.3	1218.7	1191.2	1165.8	1173.9
2.5°	1275.7	1270.9	1248.1	1218.3	1184.5	1155.1	1161.3
3°	1285.4	1278.9	1252.8	1217.6	1177.9	1143.9	1148.7
3.5°	1294.8	1286.9	1257.3	1216.7	1171.3	1132.9	1136.2
4°	1304.0	1294.7	1261.9	1215.9	1164.4	1121.9	1123.9
4.5°	1312.9	1302.3	1266.0	1214.5	1157.4	1110.8	1111.0
5°	1320.9	1309.5	1269.7	1213.2	1150.3	1099.7	1098.2
5.5°	1328.7	1316.3	1273.5	1211.7	1142.9	1088.6	1085.9
6°	1336.0	1322.8	1277.2	1210.3	1135.5	1077.5	1073.7
6.5°	1342.6	1329.3	1280.9	1208.6	1128.1	1066.5	1061.4
7°	1349.4	1335.3	1284.5	1206.8	1120.5	1055.4	1049.9
7.5°	1355.1	1340.8	1288.0	1205.1	1112.9	1044.6	1038.4
8°	1360.2	1346.0	1291.5	1203.4	1105.5	1034.3	1027.6
8.5°	1366.0	1350.8	1295.0	1201.7	1097.7	1024.1	1016.1
9°	1370.8	1355.0	1298.0	1199.6	1089.6	1014.1	1003.6
9.5°	1375.3	1358.6	1300.9	1197.3	1081.5	1003.3	988.9
10°	1379.9	1362.7	1303.5	1195.2	1073.2	991.2	974.2
10.5°	1384.2	1366.1	1306.4	1192.9	1065.0	977.8	957.8
11°	1388.0	1369.2	1308.8	1190.3	1056.8	964.4	940.8
11.5°	1392.0	1372.6	1311.0	1187.5	1048.7	949.8	924.2
12°	1396.0	1375.8	1313.4	1184.5	1040.3	933.9	907.4
12.5°	1400.1	1378.8	1315.4	1181.1	1031.8	919.3	889.5
13°	1403.9	1381.7	1317.1	1177.6	1023.6	904.3	871.6
13.5°	1408.0	1384.5	1318.3	1173.9	1015.0	887.9	853.5
14°	1411.3	1387.2	1319.3	1170.2	1006.7	871.8	836.0
14.5°	1415.1	1389.9	1320.5	1166.1	998.5	855.6	818.1
15°	1419.3	1392.5	1321.0	1161.9	989.9	839.5	801.1
15.5°	1422.7	1395.4	1321.3	1157.5	980.9	822.7	783.5
16°	1425.7	1397.6	1321.5	1153.2	971.6	806.9	764.8
16.5°	1428.7	1400.2	1321.2	1148.5	961.9	790.3	744.5
17°	1431.9	1402.8	1320.6	1144.0	951.2	774.3	723.1
17.5°	1435.6	1405.5	1319.7	1139.6	940.1	758.0	702.0
18°	1438.9	1407.7	1318.8	1134.6	929.0	740.0	681.1
18.5°	1442.3	1409.4	1318.2	1129.5	917.5	721.5	659.6
19°	1445.9	1411.4	1317.3	1124.2	905.7	702.3	638.7
19.5°	1449.9	1413.5	1315.8	1118.6	892.9	682.4	616.8
20°	1453.3	1415.5	1314.5	1113.1	880.3	662.2	595.2
20.5°	1456.5	1417.6	1313.2	1107.3	867.7	642.1	574.2
21°	1459.7	1419.7	1311.8	1101.8	855.0	621.5	553.6
21.5°	1463.0	1422.1	1310.4	1095.8	841.6	600.5	533.1
22°	1465.9	1424.5	1308.7	1089.1	828.2	580.6	511.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1469.0	1426.8	1306.9	1082.0	814.4	560.7	489.9
23°	1472.4	1428.5	1304.6	1074.7	799.8	541.2	469.3
23.5°	1475.7	1430.6	1302.5	1067.0	784.9	522.6	441.8
24°	1478.9	1432.6	1300.0	1059.8	769.9	503.9	414.8
24.5°	1482.5	1434.4	1297.5	1052.2	755.6	485.1	389.9
25°	1485.3	1436.1	1294.8	1044.6	741.2	465.2	368.5
25.5°	1488.2	1438.1	1292.0	1036.8	727.1	445.9	348.3
26°	1491.4	1439.6	1288.9	1029.6	713.2	423.1	330.7
26.5°	1494.8	1441.2	1285.7	1021.7	699.4	398.1	314.4
27°	1497.6	1443.0	1282.0	1013.7	685.0	374.7	299.5
27.5°	1500.4	1444.9	1277.9	1005.3	669.3	353.1	284.8
28°	1503.4	1445.9	1273.8	997.2	652.3	334.0	270.0
28.5°	1506.0	1447.4	1269.8	989.2	636.1	317.7	255.2
29°	1508.7	1448.8	1265.6	980.9	618.6	303.6	233.0
29.5°	1511.4	1450.1	1261.3	972.1	601.0	289.5	205.1
30°	1514.4	1450.8	1256.8	963.0	583.4	275.4	176.6
30.5°	1517.1	1451.9	1252.5	954.1	565.8	261.3	153.7
31°	1519.8	1453.1	1248.5	945.3	548.2	246.3	134.0
31.5°	1522.7	1454.2	1244.4	935.9	530.0	227.9	116.7
32°	1525.5	1455.4	1240.1	926.3	512.1	204.3	98.1
32.5°	1528.2	1455.7	1236.2	917.0	494.9	178.4	76.0
33°	1531.4	1456.8	1232.2	907.6	477.1	154.4	55.5
33.5°	1533.7	1457.5	1228.3	897.8	460.0	133.9	42.7
34°	1536.4	1458.3	1224.4	887.6	443.3	116.9	37.4
34.5°	1538.8	1458.8	1220.5	876.5	425.8	101.0	35.3
35°	1541.2	1459.4	1216.8	865.5	408.0	83.8	34.2
35.5°	1543.7	1460.4	1212.8	854.3	392.1	65.3	33.4
36°	1546.3	1460.9	1208.9	842.7	375.8	50.4	32.6
36.5°	1548.5	1461.0	1204.4	830.7	361.2	41.1	31.8
37°	1550.7	1461.2	1200.0	818.7	346.1	37.0	30.8
37.5°	1553.1	1461.6	1195.5	807.4	331.9	35.1	29.7
38°	1555.5	1462.1	1191.4	794.6	317.7	33.9	28.6
38.5°	1557.8	1462.5	1186.6	782.2	304.1	33.0	27.5
39°	1559.7	1463.0	1181.4	769.2	290.0	32.3	26.6
39.5°	1562.0	1462.9	1176.5	756.3	276.2	31.5	26.0
40°	1563.6	1462.8	1172.6	743.2	262.7	30.8	25.8
40.5°	1565.2	1462.7	1167.5	730.1	246.8	30.1	25.7
41°	1566.9	1462.5	1162.5	716.4	232.0	29.6	25.5
41.5°	1568.0	1462.3	1157.0	703.2	217.7	29.2	25.2
42°	1569.3	1461.4	1151.2	689.5	200.7	28.8	24.9
42.5°	1570.1	1460.8	1145.0	675.3	181.7	28.4	24.4
43°	1570.9	1460.2	1140.0	662.0	160.9	27.9	23.9
43.5°	1571.9	1459.8	1134.2	648.9	138.2	27.0	23.3
44°	1572.5	1459.3	1128.6	635.4	114.8	26.1	22.8
44.5°	1573.1	1459.1	1122.9	622.2	92.8	25.2	22.6

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1573.9	1458.6	1117.1	608.5	75.7	24.2	22.5
45.5°	1573.9	1457.9	1111.4	595.3	64.0	23.1	22.9
46°	1574.3	1457.6	1105.4	582.3	56.6	22.1	24.3
46.5°	1574.6	1457.1	1099.2	569.4	51.5	21.1	28.4
47°	1575.3	1456.4	1092.9	556.7	47.8	20.4	43.3
47.5°	1576.0	1455.4	1086.2	543.6	44.7	19.6	69.8
48°	1576.3	1454.7	1079.7	531.0	42.3	18.8	95.3
48.5°	1576.8	1453.8	1072.6	517.6	40.3	18.3	112.7
49°	1577.3	1452.8	1065.4	505.3	38.5	18.1	144.3
49.5°	1577.1	1451.4	1058.1	492.6	37.1	17.8	149.5
50°	1577.4	1450.0	1050.8	480.4	35.7	17.5	139.5
50.5°	1577.5	1448.8	1043.1	467.7	33.8	17.3	134.6
51°	1577.7	1447.5	1035.5	454.7	32.3	17.1	129.7
51.5°	1577.8	1446.3	1028.1	441.8	31.2	16.9	122.5
52°	1577.3	1445.2	1019.8	429.5	30.3	17.1	113.1
52.5°	1576.6	1444.0	1011.5	416.3	29.5	17.7	100.1
53°	1576.1	1442.9	1003.6	403.4	28.8	20.0	87.5
53.5°	1575.3	1441.9	995.3	389.7	28.0	28.1	74.4
54°	1574.2	1440.6	986.9	376.5	27.0	43.8	61.2
54.5°	1573.2	1439.7	978.6	362.2	26.0	57.0	50.4
55°	1571.9	1438.5	970.5	347.8	25.2	61.4	41.9
55.5°	1570.6	1437.0	962.2	333.4	24.4	75.2	35.5
56°	1569.4	1435.7	953.7	318.1	23.7	80.6	30.1
56.5°	1567.8	1434.3	945.2	302.0	23.0	74.1	25.6
57°	1566.2	1432.5	936.5	285.9	22.3	69.9	21.4
57.5°	1564.9	1430.4	928.1	269.8	21.7	66.9	17.9
58°	1563.8	1427.4	919.9	253.7	21.1	64.8	15.2
58.5°	1562.9	1424.2	911.2	237.6	20.5	62.9	13.1
59°	1561.4	1421.2	902.3	221.0	19.9	60.7	11.4
59.5°	1559.6	1418.0	893.3	204.8	19.2	57.9	10.1
60°	1557.7	1415.0	884.6	189.4	18.6	55.1	9.1
60.5°	1555.8	1411.4	875.6	175.8	18.1	51.7	8.2
61°	1553.2	1407.8	867.2	165.7	17.5	47.9	7.5
61.5°	1550.7	1404.6	858.4	156.9	16.8	44.2	6.8
62°	1548.5	1401.2	850.1	151.7	16.1	40.5	6.3
62.5°	1545.7	1397.6	841.5	149.0	15.3	36.5	5.7
63°	1542.6	1394.4	832.5	142.1	14.7	32.7	5.0
63.5°	1539.8	1391.2	823.4	125.1	14.0	28.8	4.3
64°	1536.8	1388.2	814.8	102.6	13.3	25.0	3.6
64.5°	1534.5	1385.2	806.5	85.4	12.5	21.4	3.0
65°	1532.1	1382.7	798.1	77.0	11.6	18.2	2.5
65.5°	1529.4	1380.1	789.5	73.3	11.0	14.9	2.4
66°	1527.5	1377.1	780.6	71.0	10.3	11.1	2.3
66.5°	1525.9	1373.8	771.7	69.0	9.7	6.6	2.2
67°	1525.1	1370.6	762.5	66.9	9.3	3.1	2.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1524.4	1367.1	752.9	65.2	8.8	1.8	1.8
68°	1523.5	1364.4	742.9	63.5	8.3	1.5	1.4
68.5°	1522.7	1361.1	733.2	61.8	7.9	1.5	1.3
69°	1522.2	1358.2	723.2	60.2	7.4	1.5	1.3
69.5°	1522.5	1355.6	712.3	58.8	7.0	1.5	1.4
70°	1522.3	1352.5	702.1	57.6	6.5	1.3	1.4
70.5°	1521.4	1348.9	692.1	56.5	5.9	1.1	1.2
71°	1519.4	1344.9	682.6	55.3	5.3	0.9	1.1
71.5°	1517.8	1341.9	673.1	54.0	4.7	0.9	1.0
72°	1515.0	1340.2	662.5	52.8	3.9	0.8	0.9
72.5°	1511.8	1340.6	653.1	51.6	3.4	0.8	0.9
73°	1507.6	1341.2	643.1	50.2	3.1	0.8	0.9
73.5°	1502.3	1343.3	633.9	48.9	2.7	0.8	0.9
74°	1494.0	1345.3	623.7	48.0	2.4	0.8	0.9
74.5°	1485.2	1348.8	613.4	46.8	2.1	0.8	0.8
75°	1473.9	1352.4	604.7	44.1	1.9	0.8	0.8
75.5°	1458.7	1355.7	596.1	41.1	1.6	0.8	0.9
76°	1439.1	1357.6	587.4	37.8	1.3	0.7	0.9
76.5°	1415.6	1356.7	578.7	34.6	1.1	0.7	0.9
77°	1386.7	1354.5	570.1	30.4	0.9	0.7	0.9
77.5°	1354.6	1352.6	563.2	26.6	0.8	0.7	0.9
78°	1318.5	1349.2	556.2	23.9	0.7	0.7	0.9
78.5°	1283.2	1348.3	550.1	21.6	0.7	0.7	1.0
79°	1247.8	1347.1	544.1	19.6	0.5	0.7	1.0
79.5°	1214.6	1345.8	537.7	17.9	0.5	0.7	1.1
80°	1185.0	1338.7	531.3	16.3	0.5	0.7	1.2
80.5°	1162.3	1327.0	525.0	14.9	0.5	0.7	1.2
81°	1144.8	1305.3	519.9	13.8	0.5	0.7	1.2
81.5°	1135.1	1268.9	516.3	12.3	0.5	0.7	1.2
82°	1118.1	1212.1	515.7	11.0	0.5	0.7	1.3
82.5°	1085.2	1138.0	518.1	9.9	0.5	0.7	1.3
83°	1027.9	1050.2	523.9	9.0	0.5	0.7	1.3
83.5°	953.0	948.8	533.3	8.3	0.5	0.7	1.3
84°	871.7	851.0	543.7	7.5	0.5	0.7	1.4
84.5°	798.0	778.1	549.4	6.9	0.5	0.7	1.4
85°	743.7	727.1	553.3	6.3	0.5	0.7	1.5
85.5°	703.8	681.2	555.9	5.8	0.5	0.8	1.5
86°	663.9	628.9	553.0	5.3	0.5	0.8	1.6
86.5°	624.0	607.6	542.3	4.8	0.5	0.9	1.7
87°	584.2	631.6	526.0	4.3	0.6	0.9	1.7
87.5°	545.5	660.0	503.2	3.9	0.6	0.9	1.8
88°	533.0	660.1	471.3	3.4	0.6	1.0	1.8
88.5°	439.9	591.1	431.2	3.0	0.6	1.0	1.9
89°	286.2	455.5	382.5	2.6	0.7	1.1	1.9
89.5°	180.3	304.1	327.6	2.2	0.7	1.1	2.0

REPORT NUMBER: P1197013

CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	102.9	236.1	272.3	1.7	0.7	1.2	2.0
90.5°	57.3	172.0	221.3	1.4	0.8	1.2	2.1
91°	48.4	108.1	179.4	1.2	0.8	1.2	2.1
91.5°	49.8	44.1	143.6	1.1	0.8	1.3	2.2
92°	50.1	39.2	114.3	1.0	0.9	1.3	2.3
92.5°	48.8	36.9	91.7	0.9	0.9	1.4	2.3
93°	48.5	35.4	75.2	0.8	0.9	1.4	2.4
93.5°	51.4	35.5	61.8	0.8	1.0	1.5	2.4
94°	52.4	37.3	49.8	0.7	1.0	1.5	2.5
94.5°	48.4	37.4	44.0	0.7	1.0	1.6	2.5
95°	42.7	34.9	44.2	0.7	1.1	1.6	2.6
95.5°	38.4	32.3	45.6	0.7	1.1	1.7	2.6
96°	37.5	31.1	47.5	0.7	1.2	1.7	2.7
96.5°	37.8	28.7	50.5	0.7	1.2	1.8	2.7
97°	35.7	25.8	50.1	0.7	1.2	1.8	2.8
97.5°	32.7	24.2	39.5	0.7	1.3	1.9	2.8
98°	31.6	24.0	27.7	0.7	1.3	1.9	2.9
98.5°	30.9	24.3	19.5	0.6	1.4	2.0	2.9
99°	30.0	24.6	16.4	0.6	1.4	2.0	2.9
99.5°	28.4	24.4	14.1	0.6	1.4	2.1	3.0
100°	25.9	23.5	12.0	0.6	1.5	2.1	3.0
100.5°	22.6	21.9	10.0	0.6	1.5	2.2	3.1
101°	19.2	19.6	8.7	0.6	1.6	2.2	3.1
101.5°	16.2	16.8	7.4	0.6	1.6	2.3	3.1
102°	13.7	13.4	5.9	0.6	1.6	2.3	3.2
102.5°	11.7	9.7	4.7	0.6	1.7	2.3	3.2
103°	10.7	6.6	3.8	0.6	1.7	2.4	3.2
103.5°	10.0	4.4	3.2	0.7	1.8	2.4	3.3
104°	9.0	2.9	2.8	0.7	1.8	2.5	3.4
104.5°	7.4	2.2	2.5	0.7	1.8	2.5	3.4
105°	5.4	1.9	2.1	0.7	1.9	2.6	3.4
105.5°	3.4	1.6	1.8	0.7	1.9	2.6	3.4
106°	1.8	1.3	1.6	0.7	1.9	2.6	3.5
106.5°	1.0	0.9	1.3	0.7	2.0	2.7	3.5
107°	0.7	0.6	1.1	0.8	2.0	2.7	3.5
107.5°	0.5	0.4	0.9	0.8	2.0	2.8	3.5
108°	0.3	0.2	0.8	0.8	2.1	2.8	3.6
108.5°	0.1	0.1	0.6	0.8	2.1	2.8	3.6
109°	0.0	0.0	0.6	0.9	2.1	2.9	3.7
109.5°	0.0	0.0	0.5	0.9	2.2	2.9	3.7
110°	0.0	0.0	0.4	0.9	2.2	2.9	3.7
110.5°	0.0	0.0	0.4	0.9	2.2	3.0	3.7
111°	0.0	0.0	0.3	0.9	2.3	3.0	3.7
111.5°	0.0	0.0	0.3	0.9	2.3	3.0	3.7
112°	0.0	0.0	0.2	0.9	2.3	3.1	3.8

REPORT NUMBER: P1197013

CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.2	1.0	2.3	3.1	3.8
113°	0.0	0.0	0.2	1.0	2.4	3.1	3.8
113.5°	0.0	0.0	0.2	1.0	2.4	3.1	3.8
114°	0.0	0.0	0.2	1.0	2.4	3.2	3.8
114.5°	0.0	0.0	0.2	1.0	2.5	3.2	3.8
115°	0.0	0.0	0.2	1.0	2.5	3.2	3.8
115.5°	0.0	0.0	0.2	1.1	2.5	3.2	3.9
116°	0.0	0.0	0.2	1.1	2.5	3.2	3.9
116.5°	0.0	0.0	0.2	1.1	2.6	3.3	3.9
117°	0.0	0.0	0.2	1.2	2.6	3.3	3.9
117.5°	0.0	0.0	0.2	1.2	2.6	3.3	3.9
118°	0.0	0.0	0.2	1.2	2.6	3.4	3.9
118.5°	0.0	0.0	0.2	1.2	2.7	3.4	3.9
119°	0.0	0.0	0.2	1.2	2.7	3.4	3.9
119.5°	0.0	0.0	0.3	1.2	2.7	3.4	3.9
120°	0.0	0.0	0.3	1.3	2.7	3.4	3.9
120.5°	0.0	0.0	0.3	1.3	2.8	3.4	3.9
121°	0.0	0.0	0.3	1.3	2.8	3.5	4.0
121.5°	0.0	0.0	0.3	1.3	2.8	3.5	4.0
122°	0.0	0.0	0.3	1.3	2.8	3.5	4.0
122.5°	0.0	0.0	0.4	1.4	2.8	3.5	4.0
123°	0.0	0.0	0.4	1.4	2.9	3.5	4.0
123.5°	0.0	0.0	0.4	1.4	2.9	3.6	4.0
124°	0.0	0.0	0.4	1.4	2.9	3.6	4.0
124.5°	0.0	0.0	0.5	1.5	2.9	3.6	4.0
125°	0.0	0.0	0.5	1.5	2.9	3.7	4.0
125.5°	0.0	0.0	0.5	1.5	3.0	3.7	4.0
126°	0.0	0.0	0.5	1.5	3.0	3.7	4.0
126.5°	0.0	0.0	0.6	1.5	3.0	3.7	4.0
127°	0.0	0.0	0.6	1.5	3.0	3.7	4.0
127.5°	0.0	0.0	0.6	1.6	3.0	3.7	4.0
128°	0.0	0.0	0.6	1.6	3.0	3.7	4.0
128.5°	0.0	0.0	0.7	1.6	3.0	3.7	4.0
129°	0.0	0.0	0.7	1.6	3.0	3.7	4.0
129.5°	0.0	0.0	0.7	1.7	3.1	3.7	4.0
130°	0.0	0.0	0.7	1.7	3.1	3.8	4.0
130.5°	0.0	0.0	0.7	1.7	3.1	3.8	4.1
131°	0.0	0.0	0.8	1.7	3.1	3.8	4.1
131.5°	0.0	0.0	0.8	1.8	3.1	3.8	4.1
132°	0.0	0.0	0.8	1.8	3.1	3.8	4.1
132.5°	0.0	0.0	0.8	1.8	3.1	3.8	4.1
133°	0.0	0.1	0.9	1.8	3.1	3.8	4.1
133.5°	0.0	0.1	0.9	1.8	3.1	3.8	4.2
134°	0.0	0.1	0.9	1.9	3.1	3.8	4.2
134.5°	0.0	0.1	1.0	1.9	3.1	3.8	4.2

REPORT NUMBER: P1197013

CATALOG NUMBER: AWP28S-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.1	0.1	1.0	1.9	3.1	3.8	4.2
135.5°	0.1	0.2	1.0	1.9	3.2	3.8	4.2
136°	0.1	0.2	1.0	1.9	3.2	3.8	4.2
136.5°	0.1	0.2	1.1	2.0	3.2	3.8	4.2
137°	0.1	0.2	1.1	2.0	3.2	3.8	4.2
137.5°	0.1	0.3	1.1	2.0	3.2	3.8	4.2
138°	0.1	0.3	1.1	2.0	3.2	3.8	4.2
138.5°	0.1	0.3	1.1	2.1	3.2	3.8	4.2
139°	0.2	0.3	1.2	2.1	3.2	3.9	4.2
139.5°	0.2	0.3	1.2	2.1	3.2	3.9	4.2
140°	0.2	0.4	1.2	2.1	3.3	3.9	4.1
140.5°	0.2	0.4	1.3	2.1	3.3	3.9	4.1
141°	0.2	0.4	1.3	2.2	3.3	3.9	4.1
141.5°	0.3	0.4	1.3	2.2	3.3	3.9	4.1
142°	0.3	0.5	1.3	2.2	3.3	3.9	4.1
142.5°	0.3	0.5	1.4	2.2	3.3	3.9	4.1
143°	0.3	0.5	1.4	2.3	3.3	3.9	4.1
143.5°	0.3	0.6	1.4	2.3	3.3	3.9	4.1
144°	0.4	0.6	1.4	2.3	3.3	3.9	4.1
144.5°	0.4	0.6	1.5	2.3	3.3	3.9	4.1
145°	0.4	0.6	1.5	2.3	3.3	3.9	4.1
145.5°	0.4	0.7	1.5	2.3	3.3	3.9	4.0
146°	0.4	0.7	1.5	2.3	3.3	3.9	4.0
146.5°	0.5	0.7	1.6	2.4	3.3	3.9	4.0
147°	0.5	0.7	1.6	2.4	3.4	3.9	4.0
147.5°	0.5	0.8	1.6	2.4	3.4	3.9	4.0
148°	0.5	0.8	1.6	2.4	3.4	3.9	4.0
148.5°	0.6	0.9	1.7	2.4	3.4	3.9	4.0
149°	0.6	0.9	1.7	2.5	3.4	3.9	4.0
149.5°	0.6	0.9	1.7	2.5	3.4	3.9	4.0
150°	0.6	0.9	1.8	2.5	3.4	3.9	4.0
150.5°	0.7	1.0	1.8	2.5	3.4	3.9	3.9
151°	0.7	1.0	1.8	2.6	3.4	3.9	3.9
151.5°	0.7	1.0	1.8	2.6	3.4	3.9	3.9
152°	0.8	1.1	1.9	2.6	3.4	3.9	3.9
152.5°	0.8	1.1	1.9	2.6	3.4	3.9	3.9
153°	0.8	1.2	1.9	2.6	3.4	3.9	3.9
153.5°	0.8	1.2	1.9	2.6	3.4	3.9	3.9
154°	0.9	1.2	2.0	2.6	3.4	3.9	3.9
154.5°	0.9	1.2	2.0	2.7	3.4	3.9	3.9
155°	0.9	1.3	2.0	2.7	3.4	3.9	3.8
155.5°	1.0	1.3	2.0	2.8	3.4	3.9	3.8
156°	1.0	1.3	2.1	2.7	3.4	3.9	3.8
156.5°	1.0	1.4	2.1	2.8	3.4	3.9	3.8
157°	1.1	1.4	2.1	2.8	3.4	3.9	3.8

REPORT NUMBER: P1197013

CATALOG NUMBER: AWPf28S-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.1	1.4	2.1	2.8	3.4	3.9	3.8
158°	1.1	1.5	2.2	2.8	3.4	3.9	3.8
158.5°	1.2	1.5	2.2	2.8	3.4	3.8	3.8
159°	1.2	1.5	2.2	2.8	3.4	3.8	3.8
159.5°	1.2	1.5	2.2	2.8	3.4	3.8	3.8
160°	1.2	1.6	2.2	2.9	3.4	3.8	3.7
160.5°	1.3	1.6	2.3	2.9	3.4	3.8	3.7
161°	1.3	1.6	2.3	2.9	3.4	3.8	3.7
161.5°	1.3	1.7	2.3	2.9	3.4	3.8	3.7
162°	1.4	1.7	2.4	2.9	3.4	3.8	3.7
162.5°	1.4	1.7	2.4	2.9	3.4	3.8	3.6
163°	1.4	1.8	2.4	2.9	3.4	3.8	3.6
163.5°	1.4	1.8	2.4	3.0	3.4	3.7	3.6
164°	1.5	1.8	2.5	3.0	3.4	3.7	3.6
164.5°	1.5	1.8	2.5	3.0	3.4	3.7	3.6
165°	1.6	1.9	2.5	3.0	3.4	3.7	3.5
165.5°	1.6	1.9	2.5	3.0	3.4	3.7	3.5
166°	1.6	2.0	2.6	3.0	3.4	3.7	3.5
166.5°	1.7	2.0	2.6	3.1	3.4	3.7	3.5
167°	1.7	2.0	2.6	3.1	3.4	3.7	3.5
167.5°	1.7	2.0	2.6	3.1	3.4	3.7	3.5
168°	1.8	2.1	2.7	3.1	3.4	3.7	3.4
168.5°	1.8	2.1	2.7	3.1	3.4	3.6	3.4
169°	1.9	2.1	2.7	3.1	3.4	3.7	3.4
169.5°	1.9	2.2	2.8	3.1	3.4	3.6	3.4
170°	1.9	2.2	2.8	3.1	3.4	3.6	3.3
170.5°	2.0	2.3	2.8	3.1	3.4	3.6	3.3
171°	2.0	2.3	2.8	3.1	3.4	3.6	3.3
171.5°	2.0	2.3	2.9	3.1	3.4	3.6	3.3
172°	2.1	2.3	2.9	3.1	3.4	3.5	3.2
172.5°	2.1	2.4	2.9	3.1	3.4	3.5	3.2
173°	2.2	2.4	2.9	3.2	3.4	3.5	3.1
173.5°	2.2	2.4	2.9	3.2	3.4	3.5	3.1
174°	2.2	2.5	3.0	3.2	3.4	3.5	3.1
174.5°	2.3	2.5	3.0	3.2	3.4	3.5	3.1
175°	2.3	2.6	3.0	3.2	3.4	3.4	3.1
175.5°	2.4	2.6	3.0	3.2	3.4	3.4	3.0
176°	2.4	2.6	3.0	3.2	3.4	3.4	3.0
176.5°	2.4	2.6	3.1	3.2	3.4	3.4	3.0
177°	2.5	2.7	3.1	3.2	3.4	3.4	2.9
177.5°	2.5	2.8	3.1	3.2	3.3	3.4	2.9
178°	2.6	2.8	3.1	3.2	3.3	3.3	2.8
178.5°	2.6	2.8	3.1	3.2	3.3	3.3	2.8
179°	2.6	2.8	3.1	3.2	3.3	3.3	2.8
179.5°	2.6	2.8	3.1	3.2	3.3	3.3	2.8



REPORT NUMBER: P1197013
CATALOG NUMBER: AWPf28S-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)