

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: P1197154

Luminaire Tested: AWPS28S-BZ-HIGH-4000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197154
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-HIGH-4000K-POSITION 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 83 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3604 (1 lamp)
Luminaire Lumens: 3859.9 lumens
Efficiency: 107.1%
Efficacy: 137.9 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): 28
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

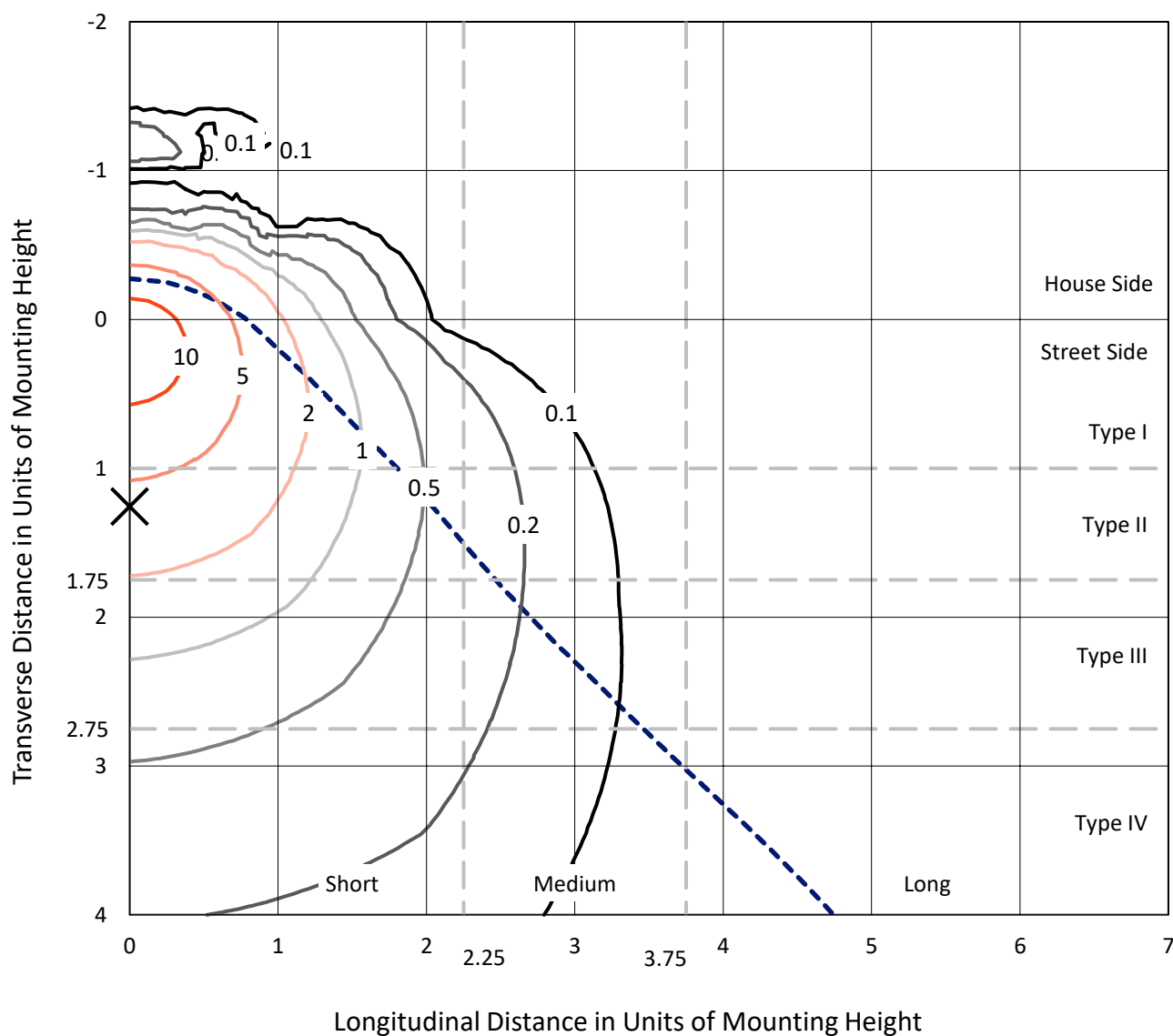
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

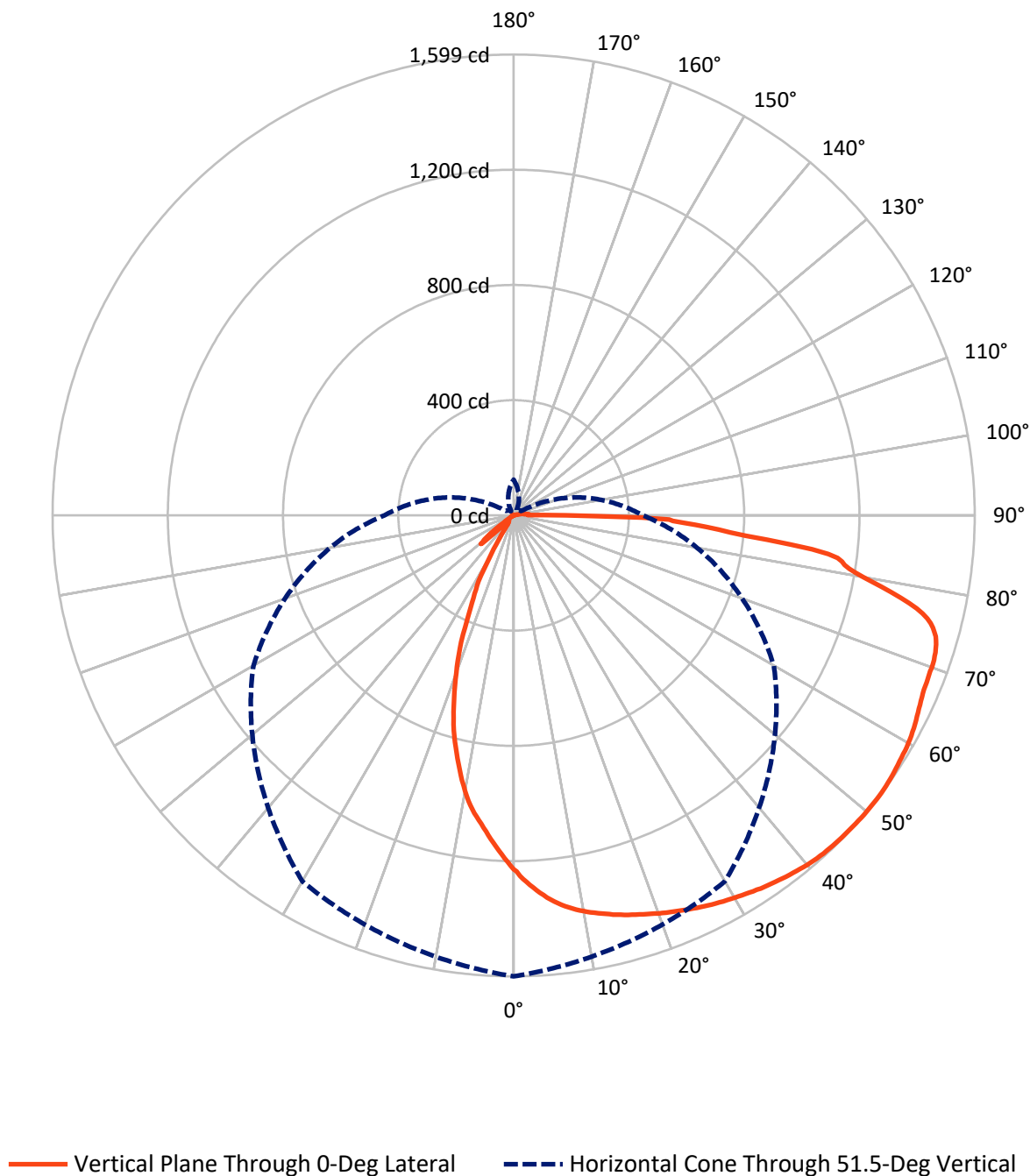


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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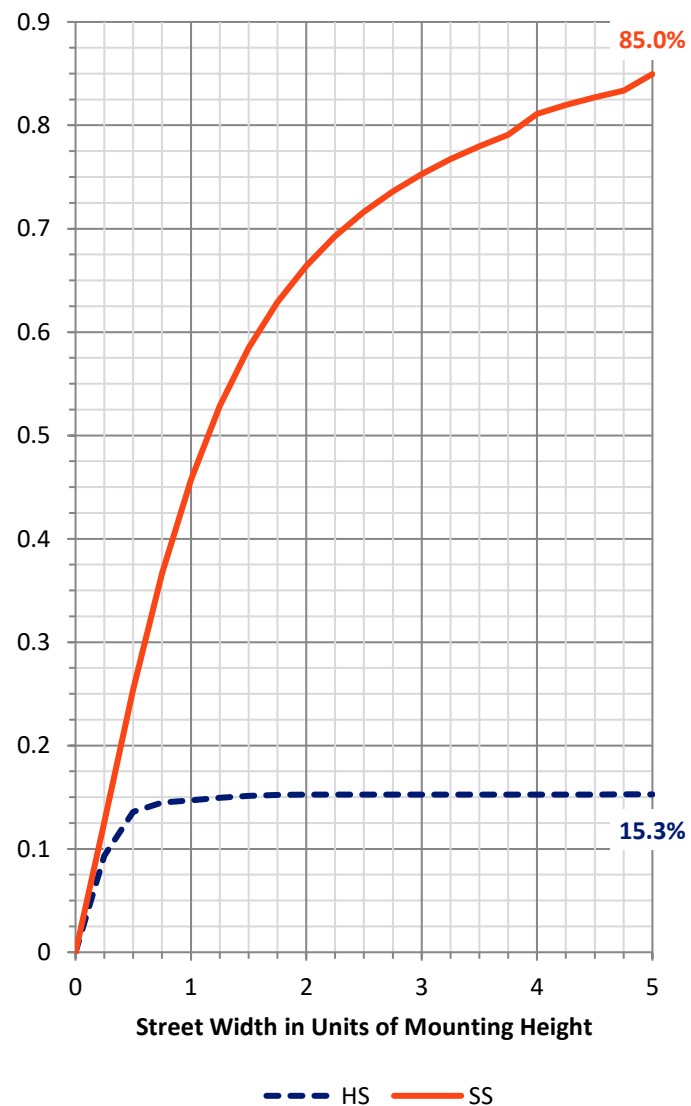
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.8	8.6	565.5
	% Lamp	15.5	0.2	15.7
Street Side	Lumens	3263.8	30.7	3294.5
	% Lamp	90.6	0.9	91.4
Total	Lumens	3820.6	39.3	3859.9
	% Lamp	106.0	1.1	107.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	116.2	3.0	3.2
10°-20°	323.7	8.4	9.0
20°-30°	459.2	11.9	12.7
30°-40°	513.7	13.3	14.3
40°-50°	539.3	14.0	15.0
50°-60°	550.3	14.3	15.3
60°-70°	516.6	13.4	14.3
70°-80°	484.8	12.6	13.5
80°-90°	316.8	8.2	8.8
90°-100°	27.3	0.7	0.8
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°	3820.6	99.0	106.0
0°-180°	3859.9	100.0	107.1

Coefficient of Utilization



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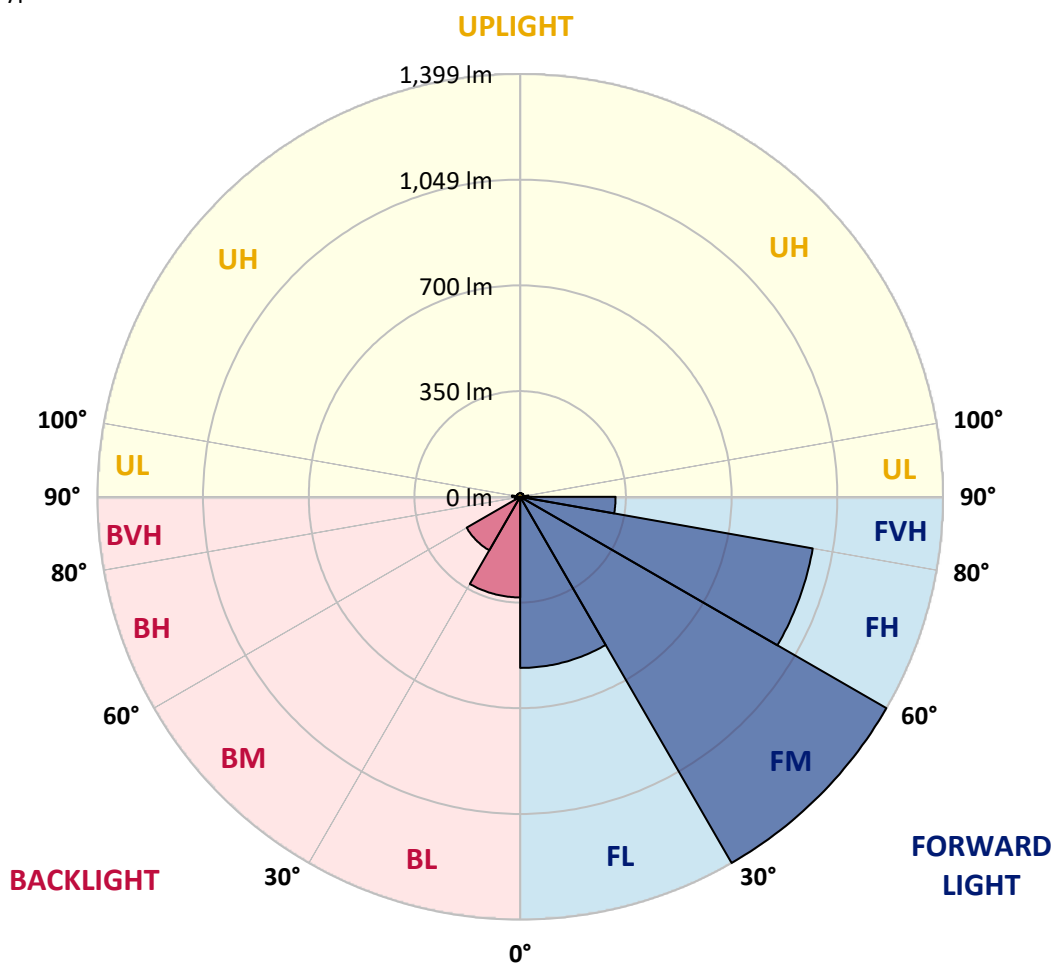
CATALOG NUMBER: AWPS28S-BZ-HIGH-4000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.1	15.7			
FM	(30°-60°)	1399.0	38.8			
FH	(60°-80°)	982.9	27.3			G1/1800
FVH	(80°-90°)	315.7	8.8			G3/500
BL	(0°-30°)	333.0	9.2	B1/500		
BM	(30°-60°)	204.3	5.7	B0/220		
BH	(60°-80°)	18.5	0.5	B0/110		G0/110
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	27.3	0.8		U2/50	
UH	(100°-180°)	12.0	0.3		U2/50	
Trapped Light		-255.9	-7.1			

BUG Rating: B1-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1235.9	1235.9	1235.9	1235.9	1235.9	1235.9	1235.9
0.5°	1251.5	1252.5	1244.9	1236.2	1226.4	1214.7	1227.5
1°	1262.2	1261.4	1250.6	1236.0	1220.3	1203.9	1215.0
1.5°	1272.6	1270.4	1255.6	1235.6	1214.0	1192.9	1202.7
2°	1283.2	1279.5	1260.3	1235.3	1207.5	1181.7	1189.9
2.5°	1293.1	1288.2	1265.1	1234.9	1200.7	1170.9	1177.2
3°	1303.0	1296.3	1269.9	1234.3	1193.9	1159.5	1164.4
3.5°	1312.5	1304.5	1274.5	1233.3	1187.3	1148.4	1151.7
4°	1321.8	1312.4	1279.1	1232.5	1180.3	1137.2	1139.2
4.5°	1330.8	1320.1	1283.3	1231.1	1173.2	1125.9	1126.2
5°	1338.9	1327.4	1287.0	1229.7	1166.0	1114.7	1113.2
5.5°	1346.8	1334.2	1290.9	1228.3	1158.5	1103.5	1100.7
6°	1354.2	1340.9	1294.6	1226.8	1151.0	1092.2	1088.3
6.5°	1361.0	1347.4	1298.4	1225.1	1143.5	1081.0	1075.9
7°	1367.8	1353.5	1302.0	1223.3	1135.8	1069.8	1064.2
7.5°	1373.6	1359.1	1305.6	1221.6	1128.1	1058.8	1052.6
8°	1378.7	1364.4	1309.1	1219.8	1120.6	1048.4	1041.6
8.5°	1384.6	1369.2	1312.7	1218.1	1112.7	1038.1	1030.0
9°	1389.5	1373.5	1315.8	1216.0	1104.5	1028.0	1017.3
9.5°	1394.1	1377.2	1318.7	1213.6	1096.3	1017.0	1002.4
10°	1398.7	1381.3	1321.3	1211.5	1087.9	1004.7	987.5
10.5°	1403.1	1384.8	1324.2	1209.2	1079.5	991.1	970.9
11°	1407.0	1387.9	1326.7	1206.5	1071.2	977.5	953.7
11.5°	1411.0	1391.3	1328.9	1203.7	1063.0	962.8	936.8
12°	1415.1	1394.6	1331.3	1200.7	1054.5	946.6	919.8
12.5°	1419.3	1397.6	1333.3	1197.3	1045.8	931.9	901.7
13°	1423.1	1400.6	1335.1	1193.6	1037.5	916.6	883.5
13.5°	1427.3	1403.4	1336.3	1189.9	1028.9	900.0	865.1
14°	1430.6	1406.2	1337.3	1186.2	1020.4	883.7	847.4
14.5°	1434.4	1408.9	1338.5	1182.0	1012.1	867.3	829.3
15°	1438.7	1411.5	1339.0	1177.8	1003.4	851.0	812.1
15.5°	1442.1	1414.4	1339.4	1173.3	994.3	834.0	794.2
16°	1445.1	1416.7	1339.6	1168.9	984.8	817.9	775.2
16.5°	1448.2	1419.4	1339.3	1164.2	975.0	801.1	754.7
17°	1451.4	1421.9	1338.6	1159.6	964.2	784.9	733.0
17.5°	1455.2	1424.7	1337.7	1155.1	953.0	768.4	711.6
18°	1458.6	1427.0	1336.8	1150.1	941.6	750.1	690.4
18.5°	1462.0	1428.7	1336.2	1144.9	930.1	731.4	668.6
19°	1465.6	1430.7	1335.3	1139.6	918.0	711.9	647.4
19.5°	1469.7	1432.8	1333.8	1133.9	905.1	691.7	625.2
20°	1473.1	1434.8	1332.4	1128.3	892.3	671.3	603.4
20.5°	1476.4	1436.9	1331.1	1122.4	879.6	650.9	582.1
21°	1479.6	1439.1	1329.7	1116.8	866.7	629.9	561.1
21.5°	1482.9	1441.5	1328.3	1110.8	853.1	608.7	540.3
22°	1485.9	1443.9	1326.6	1103.9	839.5	588.5	518.6

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1489.0	1446.3	1324.8	1096.8	825.5	568.3	496.6
23°	1492.5	1448.0	1322.4	1089.4	810.7	548.6	475.7
23.5°	1495.9	1450.1	1320.3	1081.6	795.6	529.7	447.8
24°	1499.1	1452.2	1317.7	1074.2	780.4	510.7	420.5
24.5°	1502.7	1454.0	1315.2	1066.6	765.9	491.7	395.2
25°	1505.6	1455.7	1312.5	1058.9	751.4	471.6	373.5
25.5°	1508.6	1457.7	1309.6	1051.0	737.0	452.0	353.0
26°	1511.8	1459.2	1306.5	1043.6	722.9	428.9	335.2
26.5°	1515.2	1460.8	1303.3	1035.7	709.0	403.5	318.7
27°	1518.1	1462.7	1299.5	1027.5	694.3	379.9	303.6
27.5°	1520.8	1464.6	1295.4	1019.0	678.5	357.9	288.6
28°	1523.9	1465.7	1291.2	1010.9	661.2	338.6	273.7
28.5°	1526.6	1467.2	1287.2	1002.7	644.8	322.1	258.7
29°	1529.3	1468.6	1282.9	994.2	627.0	307.7	236.2
29.5°	1532.0	1469.9	1278.5	985.3	609.2	293.4	207.9
30°	1535.0	1470.6	1274.0	976.1	591.3	279.2	179.1
30.5°	1537.8	1471.7	1269.6	967.1	573.5	264.9	155.8
31°	1540.6	1473.0	1265.5	958.2	555.7	249.6	135.8
31.5°	1543.5	1474.1	1261.4	948.7	537.3	231.0	118.3
32°	1546.4	1475.2	1257.0	939.0	519.1	207.1	99.4
32.5°	1549.0	1475.6	1253.1	929.6	501.7	180.8	77.0
33°	1552.3	1476.7	1249.0	920.0	483.6	156.5	56.3
33.5°	1554.7	1477.4	1245.1	910.1	466.3	135.7	43.2
34°	1557.3	1478.2	1241.1	899.7	449.3	118.5	37.9
34.5°	1559.8	1478.7	1237.2	888.5	431.6	102.3	35.8
35°	1562.3	1479.4	1233.4	877.3	413.6	84.9	34.6
35.5°	1564.8	1480.3	1229.3	865.9	397.4	66.2	33.8
36°	1567.4	1480.9	1225.4	854.2	380.9	51.0	33.0
36.5°	1569.6	1481.0	1220.9	842.1	366.1	41.6	32.2
37°	1571.9	1481.2	1216.4	829.9	350.9	37.5	31.2
37.5°	1574.3	1481.5	1211.8	818.5	336.4	35.6	30.1
38°	1576.8	1482.1	1207.7	805.5	322.0	34.3	29.0
38.5°	1579.1	1482.5	1202.8	792.9	308.2	33.5	27.8
39°	1581.0	1482.9	1197.5	779.8	294.0	32.7	26.9
39.5°	1583.3	1482.8	1192.5	766.7	280.0	31.9	26.4
40°	1585.0	1482.7	1188.6	753.3	266.2	31.2	26.1
40.5°	1586.6	1482.6	1183.5	740.1	250.2	30.6	26.0
41°	1588.3	1482.4	1178.3	726.2	235.1	30.0	25.8
41.5°	1589.4	1482.2	1172.8	712.8	220.7	29.6	25.6
42°	1590.7	1481.4	1166.9	698.9	203.4	29.2	25.3
42.5°	1591.5	1480.7	1160.6	684.5	184.1	28.8	24.8
43°	1592.4	1480.1	1155.5	671.0	163.1	28.2	24.2
43.5°	1593.3	1479.8	1149.6	657.7	140.0	27.4	23.6
44°	1594.0	1479.2	1144.0	644.0	116.4	26.4	23.1
44.5°	1594.6	1479.0	1138.2	630.7	94.1	25.5	22.9

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1595.3	1478.5	1132.4	616.8	76.8	24.5	22.8
45.5°	1595.3	1477.8	1126.6	603.4	64.9	23.5	23.2
46°	1595.8	1477.5	1120.5	590.3	57.4	22.4	24.6
46.5°	1596.1	1477.0	1114.2	577.2	52.3	21.4	28.8
47°	1596.8	1476.3	1107.8	564.3	48.5	20.6	43.9
47.5°	1597.5	1475.3	1101.0	551.0	45.3	19.8	70.7
48°	1597.8	1474.6	1094.4	538.2	42.9	19.0	96.6
48.5°	1598.3	1473.6	1087.2	524.7	40.9	18.5	114.2
49°	1598.8	1472.6	1080.0	512.2	39.1	18.3	146.2
49.5°	1598.6	1471.3	1072.5	499.4	37.6	18.0	151.5
50°	1598.9	1469.8	1065.2	487.0	36.2	17.8	141.4
50.5°	1599.1	1468.6	1057.4	474.0	34.2	17.6	136.5
51°	1599.3	1467.2	1049.6	460.9	32.7	17.3	131.5
51.5°	1599.4	1466.0	1042.1	447.9	31.7	17.2	124.2
52°	1598.8	1465.0	1033.7	435.4	30.7	17.3	114.6
52.5°	1598.1	1463.7	1025.3	422.0	29.9	18.0	101.4
53°	1597.6	1462.6	1017.3	408.9	29.2	20.3	88.7
53.5°	1596.8	1461.5	1008.9	395.0	28.4	28.4	75.4
54°	1595.7	1460.3	1000.3	381.6	27.4	44.4	62.1
54.5°	1594.6	1459.3	992.0	367.1	26.4	57.8	51.0
55°	1593.4	1458.1	983.7	352.5	25.6	62.2	42.5
55.5°	1592.1	1456.6	975.4	338.0	24.7	76.2	35.9
56°	1590.8	1455.3	966.7	322.5	24.0	81.7	30.6
56.5°	1589.2	1453.8	958.1	306.2	23.3	75.1	25.9
57°	1587.6	1452.0	949.2	289.8	22.7	70.9	21.7
57.5°	1586.3	1449.9	940.7	273.5	22.0	67.8	18.2
58°	1585.1	1446.9	932.5	257.1	21.4	65.7	15.4
58.5°	1584.2	1443.6	923.7	240.8	20.7	63.8	13.3
59°	1582.7	1440.6	914.6	224.0	20.1	61.5	11.6
59.5°	1580.9	1437.4	905.5	207.6	19.5	58.7	10.2
60°	1579.0	1434.3	896.7	192.0	18.9	55.8	9.2
60.5°	1577.0	1430.7	887.6	178.2	18.3	52.4	8.3
61°	1574.4	1427.0	879.0	168.0	17.7	48.5	7.6
61.5°	1571.9	1423.8	870.1	159.1	17.0	44.8	6.9
62°	1569.7	1420.3	861.7	153.8	16.3	41.1	6.4
62.5°	1566.8	1416.7	853.0	151.0	15.5	37.0	5.8
63°	1563.7	1413.4	843.9	144.0	14.9	33.1	5.1
63.5°	1560.8	1410.2	834.6	126.8	14.2	29.2	4.4
64°	1557.8	1407.1	825.9	104.0	13.5	25.3	3.6
64.5°	1555.4	1404.1	817.5	86.5	12.6	21.7	3.0
65°	1553.0	1401.6	809.0	78.0	11.8	18.5	2.6
65.5°	1550.3	1398.9	800.2	74.3	11.1	15.1	2.5
66°	1548.4	1395.9	791.3	72.0	10.4	11.3	2.4
66.5°	1546.8	1392.6	782.2	69.9	9.9	6.7	2.3
67°	1545.9	1389.3	772.9	67.8	9.4	3.1	2.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1545.2	1385.8	763.2	66.1	8.9	1.9	1.8
68°	1544.3	1383.0	753.1	64.3	8.4	1.6	1.5
68.5°	1543.5	1379.7	743.2	62.6	8.0	1.5	1.3
69°	1543.0	1376.7	733.1	61.1	7.5	1.5	1.3
69.5°	1543.3	1374.1	722.1	59.6	7.1	1.5	1.4
70°	1543.1	1370.9	711.6	58.4	6.6	1.4	1.4
70.5°	1542.2	1367.3	701.5	57.2	6.0	1.1	1.2
71°	1540.2	1363.2	691.9	56.0	5.4	0.9	1.1
71.5°	1538.6	1360.3	682.2	54.7	4.8	0.9	1.0
72°	1535.7	1358.5	671.6	53.5	4.0	0.9	1.0
72.5°	1532.5	1358.9	662.0	52.3	3.5	0.8	0.9
73°	1528.2	1359.5	651.9	50.8	3.1	0.8	0.9
73.5°	1522.8	1361.6	642.5	49.6	2.8	0.8	0.9
74°	1514.3	1363.7	632.2	48.7	2.5	0.8	0.9
74.5°	1505.5	1367.2	621.7	47.4	2.2	0.8	0.9
75°	1494.0	1370.9	613.0	44.7	1.9	0.8	0.9
75.5°	1478.6	1374.2	604.2	41.7	1.6	0.8	0.9
76°	1458.7	1376.1	595.4	38.3	1.3	0.8	0.9
76.5°	1434.9	1375.3	586.6	35.1	1.1	0.7	0.9
77°	1405.6	1373.0	577.9	30.9	0.9	0.7	0.9
77.5°	1373.1	1371.1	570.9	26.9	0.8	0.7	0.9
78°	1336.5	1367.6	563.8	24.2	0.8	0.7	0.9
78.5°	1300.8	1366.7	557.6	21.9	0.7	0.7	1.0
79°	1264.8	1365.5	551.5	19.9	0.5	0.7	1.1
79.5°	1231.2	1364.1	545.1	18.2	0.5	0.7	1.1
80°	1201.2	1357.0	538.5	16.5	0.5	0.7	1.2
80.5°	1178.2	1345.1	532.2	15.1	0.5	0.7	1.2
81°	1160.4	1323.2	527.0	13.9	0.5	0.7	1.2
81.5°	1150.6	1286.2	523.4	12.4	0.5	0.7	1.2
82°	1133.4	1228.7	522.7	11.1	0.5	0.7	1.3
82.5°	1100.0	1153.5	525.2	10.1	0.5	0.7	1.3
83°	1041.9	1064.6	531.1	9.1	0.5	0.7	1.3
83.5°	966.0	961.7	540.6	8.4	0.5	0.7	1.4
84°	883.6	862.7	551.1	7.6	0.5	0.7	1.4
84.5°	808.9	788.7	556.9	7.0	0.5	0.7	1.5
85°	753.8	737.1	560.8	6.4	0.5	0.8	1.5
85.5°	713.4	690.5	563.5	5.9	0.5	0.8	1.6
86°	672.9	637.5	560.5	5.4	0.5	0.8	1.6
86.5°	632.5	615.9	549.7	4.9	0.5	0.9	1.7
87°	592.2	640.3	533.2	4.4	0.6	0.9	1.7
87.5°	552.9	669.0	510.0	3.9	0.6	0.9	1.8
88°	540.3	669.1	477.8	3.5	0.6	1.0	1.8
88.5°	445.9	599.1	437.1	3.0	0.6	1.0	1.9
89°	290.1	461.7	387.7	2.6	0.7	1.1	1.9
89.5°	182.8	308.3	332.1	2.2	0.7	1.1	2.0

REPORT NUMBER: P1197154

CATALOG NUMBER: AWPS28S-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	104.3	239.3	276.0	1.7	0.7	1.2	2.1
90.5°	58.0	174.4	224.3	1.4	0.8	1.2	2.1
91°	49.1	109.5	181.8	1.2	0.8	1.2	2.2
91.5°	50.5	44.7	145.6	1.1	0.8	1.3	2.2
92°	50.8	39.7	115.9	1.0	0.9	1.3	2.3
92.5°	49.5	37.4	92.9	0.9	0.9	1.4	2.3
93°	49.2	35.9	76.2	0.9	0.9	1.4	2.4
93.5°	52.1	36.0	62.7	0.8	1.0	1.5	2.5
94°	53.1	37.8	50.5	0.8	1.0	1.5	2.5
94.5°	49.0	37.9	44.6	0.7	1.1	1.6	2.5
95°	43.2	35.4	44.8	0.7	1.1	1.7	2.6
95.5°	38.9	32.8	46.2	0.7	1.1	1.7	2.7
96°	38.0	31.5	48.1	0.7	1.2	1.7	2.7
96.5°	38.3	29.1	51.2	0.7	1.2	1.8	2.7
97°	36.2	26.1	50.8	0.7	1.3	1.8	2.8
97.5°	33.2	24.5	40.0	0.7	1.3	1.9	2.8
98°	32.0	24.3	28.1	0.7	1.3	1.9	2.9
98.5°	31.3	24.6	19.8	0.6	1.4	2.0	2.9
99°	30.4	24.9	16.6	0.6	1.4	2.0	3.0
99.5°	28.8	24.7	14.3	0.6	1.5	2.1	3.0
100°	26.3	23.9	12.2	0.6	1.5	2.2	3.0
100.5°	23.0	22.2	10.1	0.6	1.5	2.2	3.1
101°	19.5	19.9	8.9	0.6	1.6	2.2	3.1
101.5°	16.4	17.0	7.5	0.6	1.6	2.3	3.2
102°	13.9	13.6	6.0	0.6	1.7	2.3	3.2
102.5°	11.9	9.8	4.7	0.6	1.7	2.4	3.3
103°	10.8	6.7	3.8	0.6	1.7	2.4	3.3
103.5°	10.2	4.5	3.2	0.7	1.8	2.5	3.3
104°	9.1	2.9	2.9	0.7	1.8	2.5	3.4
104.5°	7.5	2.3	2.5	0.7	1.8	2.5	3.4
105°	5.5	1.9	2.2	0.7	1.9	2.6	3.4
105.5°	3.5	1.6	1.9	0.7	1.9	2.6	3.5
106°	1.8	1.3	1.6	0.8	2.0	2.7	3.5
106.5°	1.0	0.9	1.3	0.8	2.0	2.7	3.6
107°	0.7	0.7	1.1	0.8	2.0	2.8	3.6
107.5°	0.5	0.4	0.9	0.8	2.1	2.8	3.6
108°	0.3	0.2	0.8	0.8	2.1	2.8	3.6
108.5°	0.1	0.1	0.6	0.9	2.1	2.9	3.7
109°	0.0	0.0	0.6	0.9	2.2	2.9	3.7
109.5°	0.0	0.0	0.5	0.9	2.2	3.0	3.7
110°	0.0	0.0	0.4	0.9	2.2	3.0	3.7
110.5°	0.0	0.0	0.4	0.9	2.3	3.0	3.8
111°	0.0	0.0	0.3	0.9	2.3	3.0	3.8
111.5°	0.0	0.0	0.3	0.9	2.3	3.1	3.8
112°	0.0	0.0	0.2	1.0	2.3	3.1	3.8

REPORT NUMBER: P1197154

CATALOG NUMBER: AWPS28S-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1197154

CATALOG NUMBER: AWPS28S-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.1	0.1	1.0	1.9	3.2	3.9	4.2
135.5°	0.1	0.2	1.0	2.0	3.2	3.9	4.2
136°	0.1	0.2	1.0	2.0	3.2	3.9	4.2
136.5°	0.1	0.2	1.1	2.0	3.2	3.9	4.2
137°	0.1	0.2	1.1	2.0	3.2	3.9	4.2
137.5°	0.1	0.3	1.1	2.0	3.2	3.9	4.2
138°	0.1	0.3	1.2	2.1	3.2	3.9	4.2
138.5°	0.2	0.3	1.2	2.1	3.3	3.9	4.2
139°	0.2	0.3	1.2	2.1	3.3	3.9	4.2
139.5°	0.2	0.3	1.2	2.1	3.3	3.9	4.2
140°	0.2	0.4	1.3	2.2	3.3	3.9	4.2
140.5°	0.2	0.4	1.3	2.2	3.3	3.9	4.2
141°	0.2	0.4	1.3	2.2	3.3	3.9	4.2
141.5°	0.3	0.4	1.3	2.2	3.3	3.9	4.2
142°	0.3	0.5	1.4	2.2	3.3	3.9	4.2
142.5°	0.3	0.5	1.4	2.3	3.3	3.9	4.2
143°	0.3	0.5	1.4	2.3	3.3	3.9	4.2
143.5°	0.3	0.6	1.4	2.3	3.4	3.9	4.1
144°	0.4	0.6	1.5	2.3	3.4	3.9	4.1
144.5°	0.4	0.6	1.5	2.3	3.4	3.9	4.1
145°	0.4	0.6	1.5	2.3	3.4	3.9	4.1
145.5°	0.4	0.7	1.5	2.4	3.4	3.9	4.1
146°	0.4	0.7	1.6	2.4	3.4	3.9	4.1
146.5°	0.5	0.7	1.6	2.4	3.4	3.9	4.1
147°	0.5	0.7	1.6	2.4	3.4	3.9	4.1
147.5°	0.5	0.8	1.6	2.4	3.4	3.9	4.1
148°	0.5	0.8	1.7	2.5	3.4	3.9	4.1
148.5°	0.6	0.9	1.7	2.5	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	1.8	2.5	3.5	3.9	4.0
150°	0.7	0.9	1.8	2.5	3.5	3.9	4.0
150.5°	0.7	1.0	1.8	2.6	3.5	3.9	4.0
151°	0.7	1.0	1.8	2.6	3.5	3.9	4.0
151.5°	0.7	1.1	1.9	2.6	3.5	3.9	4.0
152°	0.8	1.1	1.9	2.6	3.5	3.9	4.0
152.5°	0.8	1.1	1.9	2.6	3.5	3.9	4.0
153°	0.8	1.2	1.9	2.7	3.5	3.9	4.0
153.5°	0.9	1.2	2.0	2.7	3.5	3.9	3.9
154°	0.9	1.2	2.0	2.7	3.5	3.9	3.9
154.5°	0.9	1.3	2.0	2.7	3.5	3.9	3.9
155°	1.0	1.3	2.0	2.7	3.5	3.9	3.9
155.5°	1.0	1.3	2.1	2.8	3.5	3.9	3.9
156°	1.0	1.4	2.1	2.8	3.5	3.9	3.9
156.5°	1.0	1.4	2.1	2.8	3.5	3.9	3.9
157°	1.1	1.4	2.1	2.8	3.5	3.9	3.9

REPORT NUMBER: P1197154

CATALOG NUMBER: AWPS28S-BZ-HIGH-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1197154
CATALOG NUMBER: AWPS28S-BZ-HIGH-4000K-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)