

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: P1197148

Luminaire Tested: AWPS28S-BZ-HIGH-5000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197148
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-5000K-POSITION 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3780 (1 lamp)
Luminaire Lumens: 3992.4 lumens
Efficiency: 105.6%
Efficacy: 137.2 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

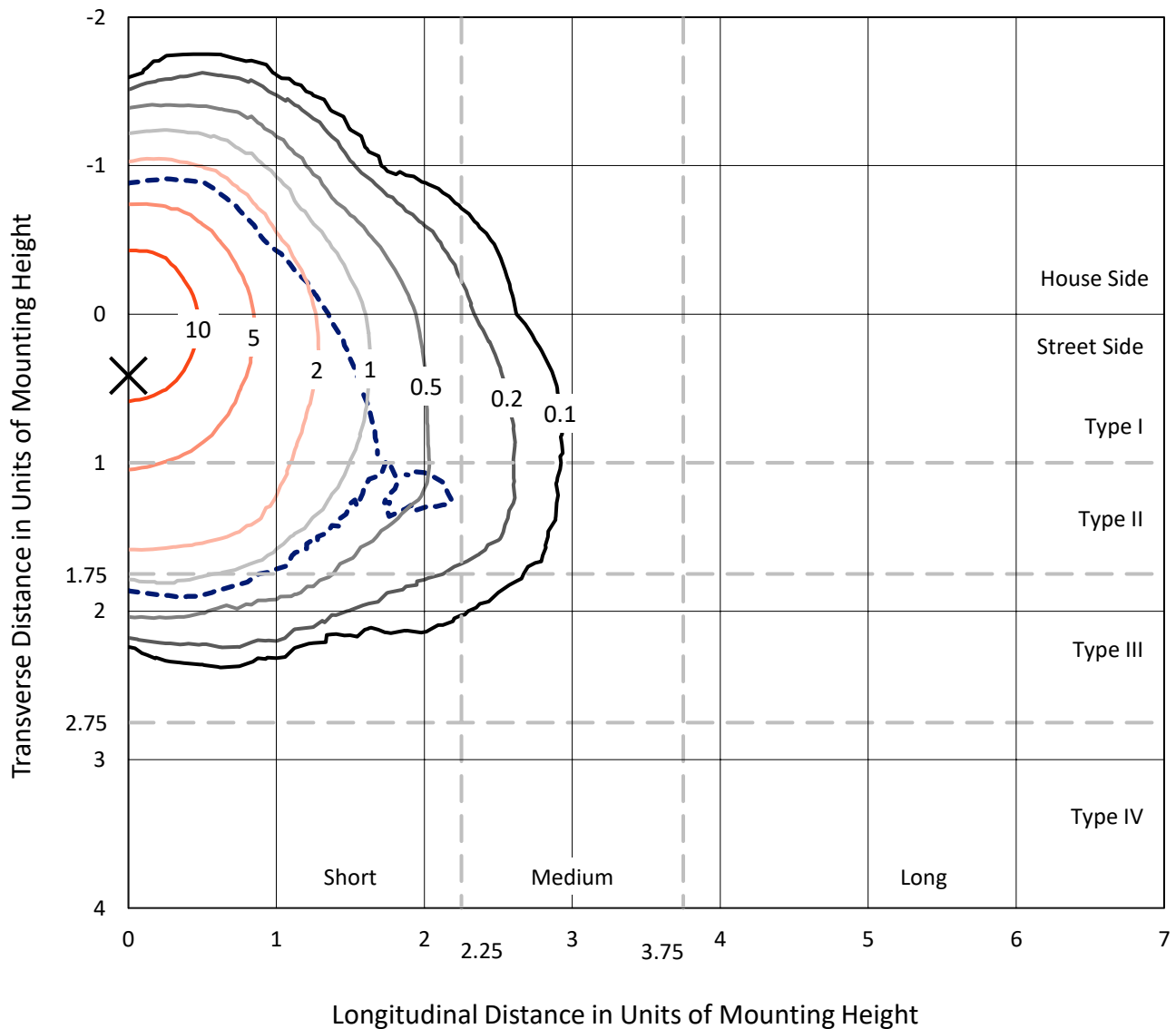
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

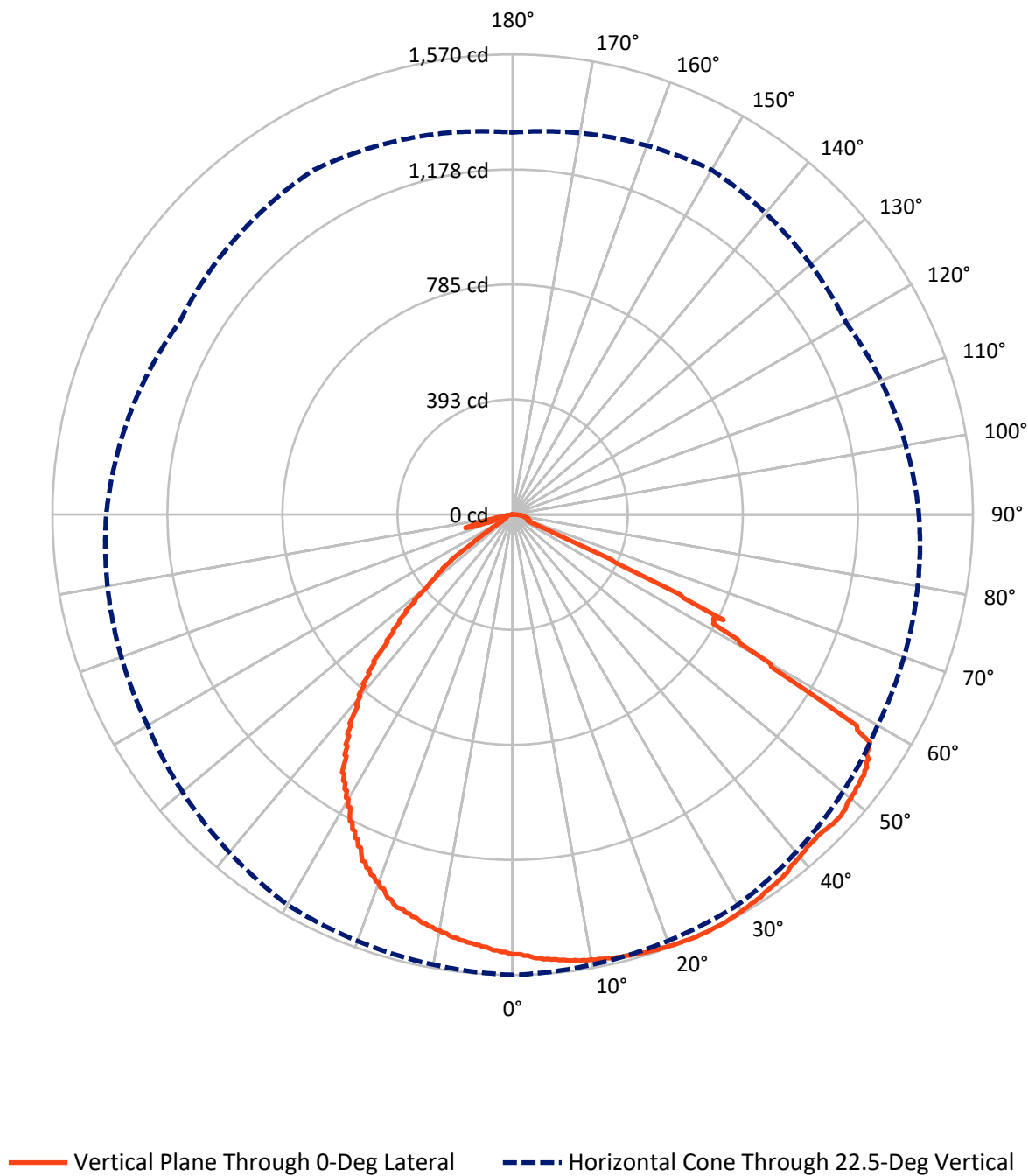


Based on 10 foot mounting height. Maximum calculated value = 15 fc
Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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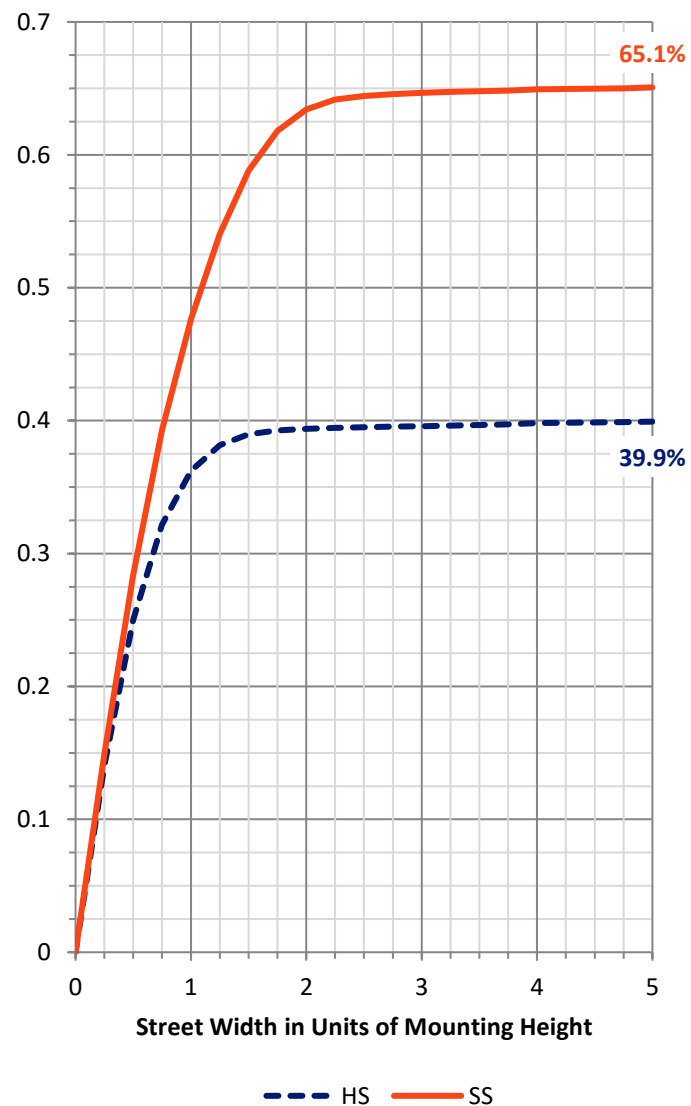
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1524.2	4.1	1528.3
	% Lamp	40.3	0.1	40.4
Street Side	Lumens	2461.0	3.1	2464.1
	% Lamp	65.1	0.1	65.2
Total	Lumens	3985.2	7.2	3992.4
	% Lamp	105.4	0.2	105.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	143.1	3.6	3.8
10°-20°	413.9	10.4	11.0
20°-30°	639.5	16.0	16.9
30°-40°	782.9	19.6	20.7
40°-50°	809.0	20.3	21.4
50°-60°	711.2	17.8	18.8
60°-70°	368.7	9.2	9.8
70°-80°	94.1	2.4	2.5
80°-90°	22.8	0.6	0.6
90°-100°	1.8	0.0	0.0
100°-110°	0.9	0.0	0.0
110°-120°	0.9	0.0	0.0
120°-130°	0.9	0.0	0.0
130°-140°	0.9	0.0	0.0
140°-150°	0.8	0.0	0.0
150°-160°	0.6	0.0	0.0
160°-170°	0.4	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	3985.2	99.8	105.4
0°-180°	3992.4	100.0	105.6

Coefficient of Utilization



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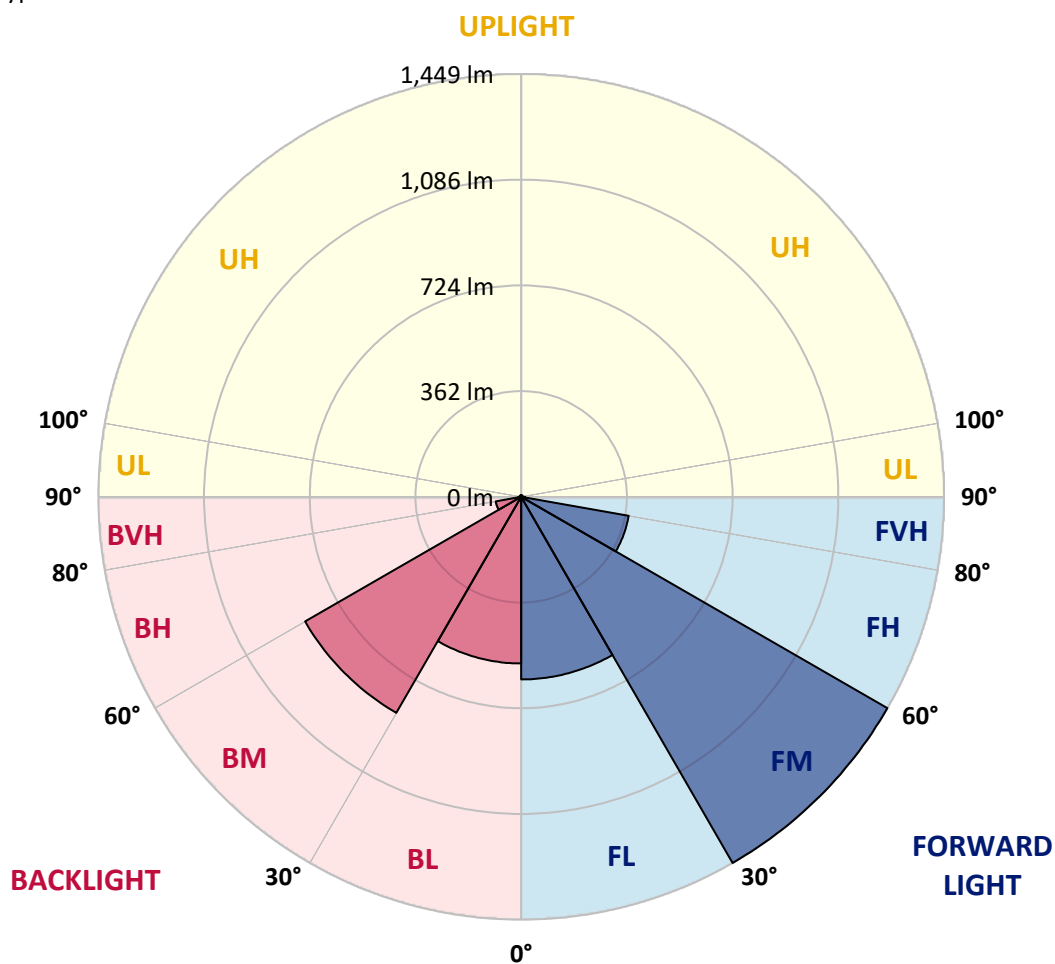
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	625.5	16.5			
FM	(30°-60°)	1448.5	38.3			
FH	(60°-80°)	374.1	9.9			G0/660
FVH	(80°-90°)	12.8	0.3			G1/100
BL	(0°-30°)	570.9	15.1	B2/1000		
BM	(30°-60°)	854.6	22.6	B1/1000		
BH	(60°-80°)	88.7	2.3	B0/110		G0/110
BVH	(80°-90°)	10.0	0.3			G0/10
UL	(90°-100°)	1.8	0.0		U1/10	
UH	(100°-180°)	5.3	0.1		U1/10	
Trapped Light		-212.4	-5.6			

BUG Rating: B2-U1-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9
0.5°	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9
1°	1505.1	1508.2	1515.2	1512.7	1503.5	1510.3	1496.4
1.5°	1505.1	1508.2	1515.2	1512.7	1499.9	1510.1	1492.4
2°	1510.4	1509.4	1515.2	1512.7	1499.9	1505.7	1492.1
2.5°	1515.1	1509.7	1516.5	1512.5	1496.2	1505.5	1487.3
3°	1515.3	1514.5	1516.1	1510.5	1496.1	1501.1	1487.1
3.5°	1520.3	1521.0	1516.4	1510.5	1490.8	1500.8	1482.5
4°	1520.4	1521.0	1516.2	1509.2	1490.7	1496.8	1477.3
4.5°	1523.5	1523.1	1516.3	1509.2	1486.4	1496.5	1477.3
5°	1523.7	1523.1	1515.8	1507.8	1486.3	1492.2	1472.3
5.5°	1528.1	1524.3	1516.6	1507.8	1480.9	1488.8	1472.1
6°	1528.1	1524.3	1516.6	1505.3	1480.8	1488.8	1468.0
6.5°	1532.0	1529.4	1514.0	1505.2	1475.3	1483.6	1467.7
7°	1534.5	1529.6	1514.0	1502.7	1469.1	1483.2	1462.6
7.5°	1534.5	1526.7	1510.8	1502.5	1469.1	1478.2	1462.4
8°	1538.8	1527.0	1510.8	1498.3	1462.2	1477.8	1456.6
8.5°	1538.8	1528.7	1510.3	1494.2	1462.0	1472.2	1456.3
9°	1541.2	1534.4	1510.6	1494.2	1455.6	1471.8	1452.3
9.5°	1541.2	1534.4	1507.6	1485.5	1455.1	1466.9	1445.7
10°	1544.2	1534.7	1507.6	1485.5	1447.2	1466.4	1445.7
10.5°	1544.3	1534.7	1505.0	1485.4	1447.2	1460.7	1439.6
11°	1546.6	1536.9	1500.0	1485.1	1439.6	1454.7	1439.3
11.5°	1546.6	1536.9	1500.0	1485.1	1439.6	1454.7	1433.3
12°	1549.3	1534.1	1496.0	1484.9	1431.4	1447.8	1432.9
12.5°	1551.4	1538.9	1496.3	1471.7	1422.3	1447.3	1426.8
13°	1551.5	1538.9	1490.3	1464.5	1422.0	1441.8	1426.5
13.5°	1553.8	1539.1	1490.3	1464.5	1412.4	1441.3	1420.6
14°	1553.9	1538.8	1488.7	1457.5	1412.0	1435.4	1413.0
14.5°	1556.5	1540.4	1488.7	1457.5	1402.8	1434.9	1413.0
15°	1556.5	1540.4	1485.8	1450.4	1402.4	1426.4	1405.9
15.5°	1559.3	1541.0	1476.3	1449.8	1394.0	1426.0	1405.9
16°	1559.3	1541.0	1476.3	1442.1	1393.6	1419.7	1397.3
16.5°	1561.4	1541.5	1472.9	1441.9	1385.3	1412.2	1396.9
17°	1561.4	1541.5	1472.9	1435.1	1375.1	1411.7	1396.9
17.5°	1563.0	1541.6	1470.0	1434.9	1375.1	1403.8	1387.8
18°	1564.1	1541.7	1470.0	1428.4	1365.8	1403.3	1376.5
18.5°	1564.1	1540.1	1463.3	1420.3	1365.4	1395.3	1376.0
19°	1565.5	1539.6	1463.3	1420.3	1355.4	1394.8	1364.5
19.5°	1565.5	1539.6	1458.6	1411.5	1354.9	1387.6	1349.9
20°	1567.3	1538.8	1458.5	1411.5	1344.6	1387.0	1349.9
20.5°	1567.3	1538.8	1453.1	1403.7	1344.2	1378.4	1335.3
21°	1567.9	1536.8	1446.8	1403.3	1334.6	1369.2	1334.8
21.5°	1567.9	1536.8	1446.8	1394.6	1334.1	1369.2	1320.4
22°	1569.0	1536.4	1437.7	1394.1	1323.6	1358.5	1319.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1570.1	1536.5	1437.7	1386.2	1312.5	1357.9	1304.2
23°	1570.0	1534.0	1433.6	1386.0	1312.5	1347.1	1303.6
23.5°	1569.6	1534.0	1433.6	1376.9	1301.3	1346.5	1287.4
24°	1569.6	1531.1	1423.3	1365.8	1300.7	1333.5	1286.7
24.5°	1569.7	1529.8	1423.3	1365.8	1289.8	1332.9	1268.2
25°	1569.6	1529.8	1418.3	1355.6	1289.2	1319.2	1248.1
25.5°	1568.9	1528.6	1418.3	1355.6	1277.7	1318.6	1248.1
26°	1568.8	1528.6	1404.4	1343.6	1277.1	1303.8	1227.5
26.5°	1568.6	1520.9	1399.3	1343.4	1264.6	1287.0	1226.6
27°	1568.6	1520.9	1399.3	1331.6	1264.0	1287.0	1205.7
27.5°	1567.1	1522.6	1390.9	1331.2	1252.8	1270.0	1204.8
28°	1565.4	1522.5	1390.9	1319.5	1239.8	1269.3	1184.3
28.5°	1565.2	1517.6	1383.1	1308.8	1239.2	1252.1	1183.4
29°	1562.8	1517.5	1383.1	1308.8	1226.8	1251.4	1163.3
29.5°	1562.6	1513.5	1374.3	1297.0	1226.1	1232.2	1142.1
30°	1559.8	1507.7	1374.0	1297.0	1213.1	1231.5	1142.1
30.5°	1559.5	1507.7	1364.5	1284.0	1212.4	1211.5	1120.8
31°	1557.5	1502.3	1356.2	1283.6	1199.6	1210.8	1120.8
31.5°	1557.5	1502.3	1356.2	1270.3	1198.9	1190.3	1098.6
32°	1555.1	1498.3	1346.2	1269.8	1183.2	1167.7	1097.4
32.5°	1555.1	1498.3	1346.2	1255.2	1166.0	1166.7	1077.1
33°	1551.2	1492.2	1336.9	1254.7	1166.0	1144.1	1075.8
33.5°	1548.7	1492.1	1336.9	1240.2	1147.1	1143.0	1055.2
34°	1548.4	1488.2	1325.7	1223.6	1146.2	1121.8	1054.1
34.5°	1546.3	1482.4	1325.4	1223.6	1128.2	1120.8	1028.9
35°	1546.1	1482.4	1310.7	1207.9	1127.4	1098.1	1000.3
35.5°	1543.1	1478.4	1310.5	1207.9	1107.9	1097.0	1000.3
36°	1542.8	1478.4	1300.2	1194.4	1107.1	1075.5	970.3
36.5°	1539.6	1472.9	1289.1	1193.8	1086.4	1052.0	969.0
37°	1539.6	1472.9	1289.1	1179.1	1085.5	1052.0	938.4
37.5°	1533.3	1468.0	1275.2	1178.3	1063.6	1028.0	937.1
38°	1528.6	1467.8	1275.2	1163.1	1039.7	1026.7	905.2
38.5°	1528.1	1464.0	1265.8	1162.6	1039.7	1003.8	903.9
39°	1525.2	1463.8	1265.8	1146.6	1013.9	1002.4	872.0
39.5°	1524.9	1458.4	1249.8	1129.3	1013.0	981.2	840.3
40°	1520.0	1449.7	1249.3	1129.3	987.1	979.7	840.3
40.5°	1519.6	1449.7	1236.9	1110.5	986.1	956.4	808.5
41°	1514.8	1444.5	1236.6	1110.5	956.0	929.5	807.0
41.5°	1514.8	1444.5	1222.5	1092.2	955.1	929.5	771.7
42°	1513.4	1438.9	1209.0	1091.4	924.5	927.8	771.7
42.5°	1513.4	1438.9	1209.0	1073.1	892.6	883.3	730.4
43°	1511.0	1429.5	1194.6	1072.3	892.6	883.3	730.4
43.5°	1512.8	1429.7	1194.6	1051.2	859.8	851.0	690.3
44°	1512.7	1422.6	1180.5	1029.1	858.6	851.0	690.3
44.5°	1515.3	1414.5	1180.0	1007.6	824.9	818.1	649.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1515.2	1414.5	1165.7	1006.8	824.9	818.1	609.4
45.5°	1518.6	1407.6	1165.3	1006.8	793.7	784.1	607.6
46°	1518.5	1407.6	1150.0	1005.9	793.7	784.1	569.1
46.5°	1519.1	1404.3	1131.7	1004.9	762.5	751.1	567.4
47°	1519.1	1404.3	1131.7	960.2	760.0	720.8	529.4
47.5°	1516.1	1406.4	1114.3	959.3	730.0	719.1	529.4
48°	1516.1	1406.4	1114.3	936.9	699.4	682.7	489.4
48.5°	1510.1	1402.8	1096.6	936.0	699.4	682.7	489.4
49°	1505.9	1402.6	1096.6	913.6	667.7	644.4	444.6
49.5°	1506.0	1398.7	1077.4	889.2	666.4	644.4	444.6
50°	1502.4	1400.8	1077.5	889.2	636.0	605.4	404.9
50.5°	1502.5	1400.8	1057.0	865.7	634.8	605.4	369.4
51°	1497.9	1399.3	1057.0	865.7	602.9	563.7	367.2
51.5°	1498.0	1399.3	1037.7	840.4	601.6	563.7	334.8
52°	1494.1	1395.6	1018.5	839.4	567.3	522.8	332.6
52.5°	1491.7	1395.4	1018.5	816.9	566.0	486.9	301.5
53°	1492.6	1396.5	998.8	815.8	529.4	484.8	301.5
53.5°	1484.4	1396.0	998.8	791.8	488.9	450.8	262.0
54°	1485.2	1396.8	978.0	767.7	487.6	450.8	262.0
54.5°	1471.3	1396.1	978.0	767.7	447.1	417.8	211.3
55°	1473.6	1405.7	957.8	740.9	445.6	417.8	166.1
55.5°	1454.7	1424.0	958.9	740.9	402.4	382.1	164.2
56°	1454.7	1424.0	940.7	716.3	401.1	382.1	127.8
56.5°	1445.9	1453.8	924.5	715.3	360.2	342.6	125.7
57°	1445.9	1453.8	924.5	689.3	358.8	310.1	84.1
57.5°	1386.7	1488.5	911.1	688.4	321.5	308.0	84.1
58°	1377.4	1488.5	911.1	664.0	288.8	278.1	43.2
58.5°	1201.6	1492.7	895.1	663.1	288.8	278.1	43.2
59°	1024.1	1482.7	895.1	637.8	260.5	242.4	41.2
59.5°	1015.3	1403.9	874.1	610.5	259.0	242.4	41.2
60°	888.5	1240.2	865.2	610.5	235.4	192.7	38.5
60.5°	879.8	1240.2	849.0	582.2	233.8	192.7	36.4
61°	779.5	1059.0	839.1	582.2	198.0	140.5	33.6
61.5°	777.5	1059.0	824.1	552.2	196.4	140.5	32.6
62°	771.8	907.8	801.9	551.4	143.2	102.9	30.7
62.5°	771.8	907.8	801.9	520.0	141.4	80.3	27.5
63°	804.0	764.1	785.6	519.5	104.8	78.3	27.5
63.5°	647.1	755.3	785.6	484.6	88.1	56.3	24.6
64°	636.3	694.3	780.8	484.5	88.1	56.3	24.6
64.5°	383.6	680.1	780.8	445.4	79.0	47.0	23.3
65°	370.7	746.2	797.7	403.1	76.6	47.0	23.3
65.5°	144.9	708.0	796.3	403.1	71.7	42.2	23.0
66°	135.5	708.0	819.2	357.3	69.1	42.2	23.1
66.5°	64.4	553.7	810.7	357.3	65.0	39.8	23.0
67°	61.0	553.7	833.9	312.5	62.4	39.8	22.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	55.3	329.6	815.4	312.2	59.6	37.7	22.7
68°	55.3	329.6	815.4	272.6	57.3	36.2	22.3
68.5°	60.2	146.6	774.3	270.9	55.1	36.1	22.3
69°	63.4	146.7	774.3	232.1	50.3	34.5	21.4
69.5°	63.5	58.9	713.9	191.7	48.2	34.5	21.4
70°	58.6	58.6	713.9	191.7	44.8	32.8	21.2
70.5°	58.4	50.0	641.7	159.4	43.2	32.8	22.2
71°	57.7	51.5	641.7	159.4	39.8	31.1	22.1
71.5°	57.6	51.5	544.4	138.0	38.9	31.1	38.9
72°	54.3	53.9	442.0	132.2	35.7	29.6	38.8
72.5°	54.3	53.9	442.0	120.2	35.0	28.3	85.6
73°	51.8	51.1	351.9	115.2	31.9	28.2	85.6
73.5°	51.8	48.5	351.7	93.2	28.0	26.8	142.8
74°	54.6	48.6	275.6	88.9	28.0	26.8	142.8
74.5°	55.1	48.7	275.6	81.9	27.6	25.3	166.7
75°	55.3	48.7	206.8	72.2	25.4	25.2	166.7
75.5°	53.9	44.9	206.6	72.2	24.2	22.3	145.1
76°	53.9	46.4	146.7	62.1	23.8	22.3	134.5
76.5°	49.3	46.1	146.7	62.1	22.4	19.6	134.3
77°	49.3	48.3	105.7	52.7	22.0	19.6	113.0
77.5°	44.3	48.1	81.3	51.3	19.4	18.0	112.9
78°	44.3	50.8	81.4	42.6	18.9	17.0	89.7
78.5°	40.4	50.6	75.3	42.3	15.8	16.9	89.7
79°	38.7	50.7	75.3	34.2	13.0	16.6	60.4
79.5°	38.5	50.7	74.4	34.1	13.0	16.6	60.4
80°	39.6	48.4	74.2	27.1	11.8	15.9	38.7
80.5°	39.6	48.4	70.4	22.4	11.5	15.9	38.7
81°	39.5	43.6	70.1	22.4	10.1	16.0	27.1
81.5°	39.2	38.2	63.8	18.9	9.9	16.0	19.0
82°	38.2	38.2	63.8	18.9	8.9	32.6	19.9
82.5°	38.0	33.2	57.7	16.4	8.7	32.6	14.0
83°	36.4	33.1	47.8	15.9	7.9	52.8	15.2
83.5°	36.4	27.9	47.5	13.9	7.8	57.6	12.1
84°	32.9	27.7	35.6	13.2	6.5	57.5	12.1
84.5°	27.5	21.1	35.3	11.8	4.8	52.0	9.8
85°	27.3	21.1	24.0	9.6	4.7	52.0	9.8
85.5°	22.5	15.1	23.7	9.6	3.9	46.9	8.2
86°	22.4	11.9	12.8	7.4	3.8	46.9	6.7
86.5°	18.8	11.7	12.8	7.4	3.2	41.5	6.4
87°	18.7	8.9	3.5	5.8	3.1	41.5	5.5
87.5°	15.0	8.7	0.7	5.6	2.1	38.7	5.3
88°	15.0	5.9	0.5	4.6	2.0	35.2	4.0
88.5°	10.9	5.7	0.5	4.6	1.2	35.2	4.0
89°	10.9	3.7	0.4	3.5	0.7	31.1	2.8
89.5°	6.9	3.4	0.4	3.5	0.7	31.1	2.8

REPORT NUMBER: P1197148

CATALOG NUMBER: AWPS28S-BZ-HIGH-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	2.7	2.1	0.3	2.9	0.5	24.9	1.9
90.5°	2.7	2.1	0.2	2.4	0.5	24.9	1.9
91°	1.8	1.9	0.2	2.4	0.4	15.6	1.3
91.5°	1.8	1.9	0.3	1.7	0.3	15.6	1.3
92°	1.8	1.9	0.3	1.7	0.3	5.3	0.8
92.5°	1.8	1.7	0.2	1.5	0.3	5.3	0.7
93°	1.7	1.7	0.2	1.5	0.3	2.1	0.5
93.5°	1.7	1.6	0.2	1.5	0.3	1.9	0.7
94°	1.5	1.6	0.2	1.5	0.3	1.9	0.7
94.5°	1.5	1.6	0.2	1.5	0.3	1.8	1.2
95°	1.5	1.6	0.2	1.5	0.3	1.8	1.2
95.5°	1.5	1.6	0.2	1.4	0.3	1.7	0.8
96°	1.5	1.5	0.2	1.4	0.3	1.7	0.8
96.5°	1.4	1.5	0.2	1.4	0.3	1.5	0.6
97°	1.4	1.5	0.2	1.4	0.3	1.5	0.4
97.5°	1.4	1.5	0.2	1.4	0.3	1.5	0.4
98°	1.4	1.4	0.2	1.3	0.3	1.5	0.4
98.5°	1.3	1.4	0.2	1.3	0.4	1.4	0.4
99°	1.3	1.4	0.2	1.3	0.4	1.4	0.4
99.5°	1.3	1.4	0.2	1.3	0.4	1.4	0.4
100°	1.3	1.4	0.2	1.3	0.4	1.4	0.4
100.5°	1.3	1.4	0.2	1.3	0.4	1.4	0.4
101°	1.3	1.2	0.2	1.3	0.4	1.4	0.4
101.5°	1.3	1.2	0.2	1.2	0.4	1.4	0.4
102°	1.2	1.2	0.2	1.2	0.4	1.4	0.4
102.5°	1.2	1.2	0.2	1.2	0.4	1.4	0.4
103°	1.2	1.2	0.2	1.2	0.4	1.3	0.4
103.5°	1.2	1.2	0.2	1.2	0.4	1.4	0.4
104°	1.2	1.2	0.3	1.2	0.4	1.4	0.4
104.5°	1.1	1.2	0.3	1.2	0.4	1.4	0.5
105°	1.1	1.2	0.3	1.2	0.4	1.4	0.5
105.5°	1.1	1.1	0.3	1.2	0.4	1.3	0.5
106°	1.1	1.1	0.3	1.2	0.5	1.3	0.5
106.5°	1.1	1.1	0.3	1.2	0.5	1.3	0.5
107°	1.1	1.1	0.3	1.2	0.5	1.3	0.5
107.5°	1.1	1.1	0.3	1.2	0.5	1.3	0.5
108°	1.1	1.1	0.3	1.2	0.5	1.3	0.5
108.5°	0.9	1.1	0.3	1.2	0.5	1.3	0.5
109°	0.9	1.0	0.3	1.1	0.5	1.3	0.5
109.5°	1.0	1.0	0.3	1.1	0.5	1.3	0.5
110°	1.0	1.0	0.3	1.2	0.5	1.3	0.5
110.5°	0.9	1.0	0.3	1.2	0.5	1.3	0.5
111°	0.9	1.0	0.3	1.1	0.5	1.3	0.7
111.5°	0.9	1.1	0.3	1.1	0.6	1.3	0.7
112°	0.9	1.1	0.3	1.1	0.6	1.3	0.7

REPORT NUMBER: P1197148

CATALOG NUMBER: AWPS28S-BZ-HIGH-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.0	1.0	0.3	1.1	0.6	1.3	0.7
113°	1.0	1.0	0.3	1.1	0.6	1.3	0.7
113.5°	1.0	1.0	0.3	1.1	0.6	1.3	0.7
114°	1.0	1.0	0.4	1.1	0.6	1.3	0.7
114.5°	1.0	1.0	0.4	1.1	0.6	1.3	0.8
115°	0.8	1.0	0.4	1.1	0.6	1.3	0.8
115.5°	1.0	1.0	0.4	1.1	0.6	1.3	0.8
116°	1.0	1.0	0.4	1.1	0.6	1.3	0.8
116.5°	1.0	1.0	0.4	1.1	0.6	1.3	0.8
117°	1.0	1.0	0.4	1.1	0.8	1.3	0.8
117.5°	1.0	1.0	0.4	1.1	0.8	1.3	0.8
118°	1.0	1.0	0.4	1.1	0.8	1.3	0.8
118.5°	0.8	1.0	0.4	1.1	0.8	1.3	0.8
119°	0.8	1.0	0.4	1.1	0.8	1.3	0.9
119.5°	0.8	1.0	0.5	1.1	0.8	1.3	0.9
120°	0.8	1.0	0.5	1.1	0.8	1.3	0.9
120.5°	0.8	1.0	0.5	1.1	0.8	1.3	0.9
121°	0.8	1.0	0.5	1.1	0.8	1.4	0.9
121.5°	0.8	1.0	0.5	1.1	0.8	1.4	0.9
122°	0.8	1.0	0.5	1.1	0.8	1.4	0.9
122.5°	0.8	1.0	0.5	1.1	0.8	1.4	0.9
123°	0.8	1.0	0.5	1.1	0.8	1.4	0.9
123.5°	0.8	1.0	0.5	1.1	0.8	1.4	1.0
124°	0.8	1.0	0.5	1.1	0.8	1.4	1.0
124.5°	0.8	1.0	0.5	1.2	0.9	1.5	1.0
125°	0.8	1.0	0.6	1.2	0.9	1.5	1.0
125.5°	0.8	1.0	0.6	1.1	0.9	1.5	1.0
126°	0.8	1.0	0.6	1.1	0.9	1.5	1.0
126.5°	0.8	1.0	0.6	1.2	0.9	1.5	1.0
127°	0.8	1.0	0.6	1.2	0.9	1.5	1.0
127.5°	0.8	1.0	0.6	1.2	0.9	1.5	1.0
128°	0.8	1.0	0.6	1.2	0.9	1.5	1.0
128.5°	0.8	1.0	0.6	1.2	0.9	1.5	1.0
129°	0.8	1.0	0.6	1.2	0.9	1.5	1.1
129.5°	0.8	1.0	0.6	1.2	0.9	1.5	1.1
130°	0.8	1.1	0.6	1.2	0.9	1.5	1.1
130.5°	0.8	1.1	0.6	1.2	1.0	1.5	1.1
131°	1.0	1.0	0.6	1.2	1.0	1.5	1.1
131.5°	1.0	1.0	0.8	1.2	0.9	1.5	1.1
132°	0.8	1.1	0.8	1.2	0.9	1.5	1.1
132.5°	0.8	1.1	0.8	1.2	1.0	1.5	1.3
133°	1.0	1.1	0.8	1.2	1.0	1.5	1.3
133.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
134°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
134.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.1

REPORT NUMBER: P1197148

CATALOG NUMBER: AWPS28S-BZ-HIGH-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
135.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
136°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
136.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
137°	1.0	1.1	0.9	1.2	1.0	1.5	1.1
137.5°	1.0	1.1	0.9	1.2	1.0	1.5	1.1
138°	1.0	1.1	0.9	1.2	1.0	1.5	1.1
138.5°	1.0	1.1	0.9	1.2	1.0	1.5	1.3
139°	1.0	1.1	0.9	1.2	1.0	1.5	1.1
139.5°	1.0	1.1	0.9	1.2	1.0	1.5	1.1
140°	1.0	1.1	0.9	1.3	1.0	1.5	1.3
140.5°	1.0	1.1	0.9	1.3	1.0	1.5	1.3
141°	1.0	1.2	0.9	1.3	1.0	1.5	1.3
141.5°	1.0	1.2	0.9	1.2	1.0	1.5	1.3
142°	1.0	1.2	0.9	1.2	1.0	1.5	1.3
142.5°	1.0	1.2	0.9	1.3	1.0	1.5	1.3
143°	1.0	1.2	0.9	1.3	1.0	1.5	1.3
143.5°	1.0	1.2	0.9	1.3	1.1	1.5	1.3
144°	1.1	1.2	0.9	1.3	1.1	1.5	1.3
144.5°	1.1	1.2	1.0	1.3	1.0	1.5	1.3
145°	1.1	1.2	1.0	1.3	1.0	1.5	1.3
145.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
146°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
146.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
147°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
147.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
148°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
148.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
149°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
149.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
150°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
150.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
151°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
151.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
152°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
152.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
153°	1.1	1.4	1.0	1.3	1.1	1.5	1.3
153.5°	1.1	1.2	1.1	1.4	1.1	1.5	1.3
154°	1.1	1.2	1.1	1.4	1.1	1.5	1.3
154.5°	1.1	1.2	1.0	1.3	1.1	1.5	1.3
155°	1.2	1.2	1.1	1.4	1.1	1.5	1.3
155.5°	1.2	1.2	1.1	1.4	1.1	1.5	1.3
156°	1.1	1.2	1.1	1.4	1.1	1.5	1.3
156.5°	1.2	1.4	1.1	1.4	1.1	1.4	1.2
157°	1.2	1.4	1.1	1.4	1.1	1.4	1.2

REPORT NUMBER: P1197148

CATALOG NUMBER: AWPS28S-BZ-HIGH-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
158°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
158.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
159°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
159.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
160°	1.2	1.4	1.1	1.4	1.2	1.5	1.3
160.5°	1.2	1.4	1.1	1.4	1.2	1.5	1.3
161°	1.2	1.2	1.1	1.4	1.1	1.5	1.3
161.5°	1.2	1.2	1.1	1.4	1.2	1.5	1.3
162°	1.2	1.4	1.1	1.4	1.2	1.4	1.2
162.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
163°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
163.5°	1.2	1.4	1.1	1.4	1.2	1.5	1.3
164°	1.2	1.4	1.1	1.4	1.2	1.4	1.2
164.5°	1.2	1.4	1.1	1.4	1.1	1.4	1.2
165°	1.2	1.4	1.1	1.4	1.1	1.5	1.3
165.5°	1.2	1.4	1.1	1.4	1.2	1.4	1.2
166°	1.2	1.4	1.1	1.4	1.2	1.4	1.2
166.5°	1.2	1.4	1.2	1.4	1.2	1.4	1.2
167°	1.2	1.4	1.2	1.4	1.2	1.4	1.2
167.5°	1.2	1.4	1.1	1.4	1.2	1.4	1.2
168°	1.2	1.4	1.1	1.4	1.2	1.4	1.2
168.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
169°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
169.5°	1.2	1.4	1.1	1.4	1.2	1.4	1.2
170°	1.2	1.4	1.2	1.4	1.2	1.4	1.2
170.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
171°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
171.5°	1.4	1.4	1.2	1.4	1.1	1.4	1.2
172°	1.2	1.4	1.2	1.4	1.1	1.4	1.2
172.5°	1.2	1.4	1.2	1.4	1.2	1.4	1.2
173°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
173.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
174°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
174.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
175°	1.4	1.4	1.1	1.4	1.2	1.4	1.2
175.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
176°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
176.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
177°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
177.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
178°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
178.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.4
179°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
179.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2



REPORT NUMBER: P1197148
CATALOG NUMBER: AWPS28S-BZ-HIGH-5000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)