

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331550-830

Luminaire Tested: **S122DIW-S675D1440U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331550-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S675D1440U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7477.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

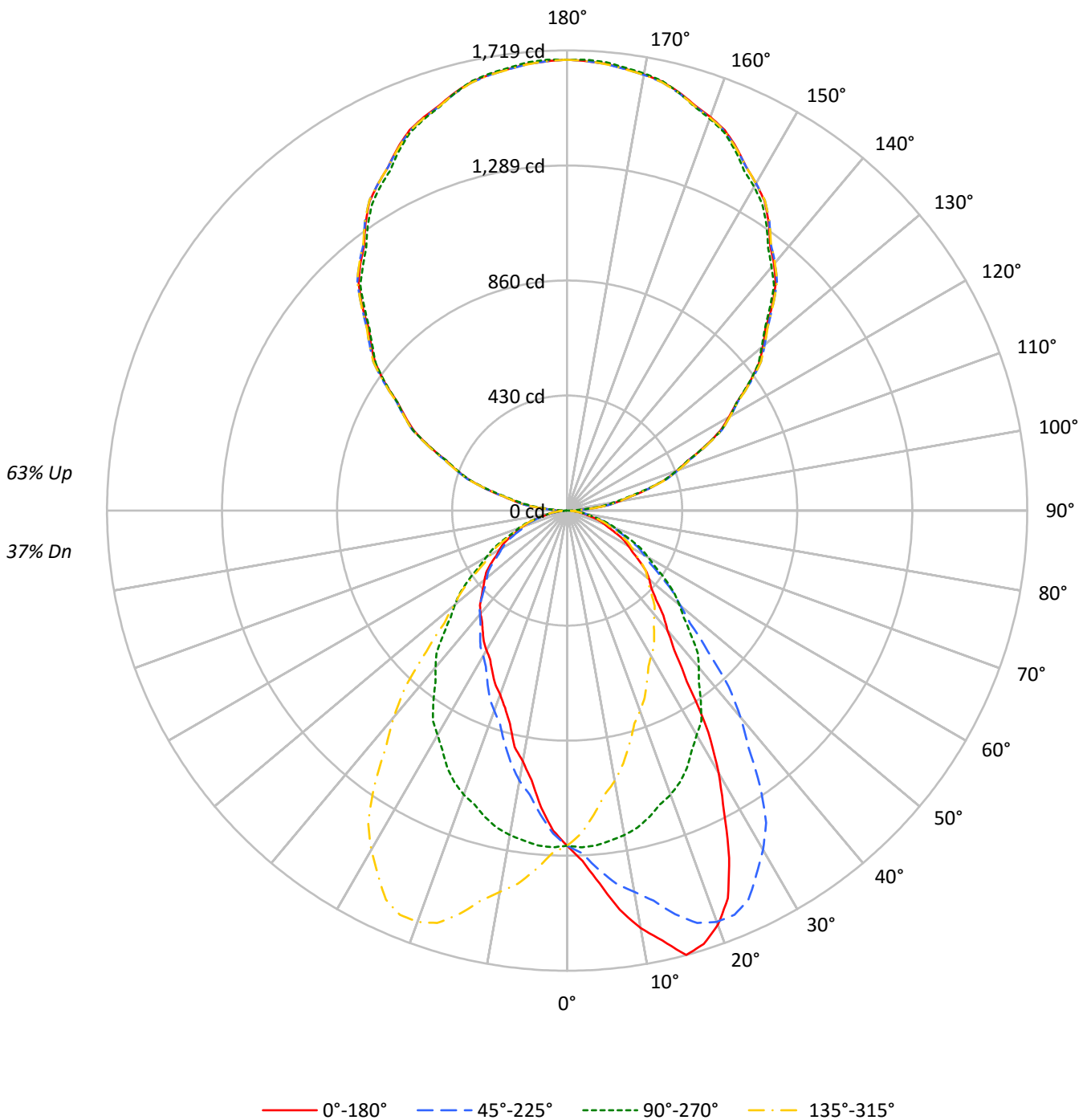
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38	32				
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27				
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28	23				
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	28	26	24	20				
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	23	22	18				
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16				
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	22	19	17	14				
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13				
9	49	38	30	25	45	35	28	24	29	24	21	23	20	17	18	16	14	12				
10	46	34	27	23	42	32	26	21	27	22	18	22	18	16	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	22663	20345	18029	20345
10°	25968	20179	15603	20179
15°	28727	19809	13785	19809
20°	28290	19411	12565	19411
25°	25509	18884	11794	18884
30°	21080	18040	11231	18040
35°	15364	17156	10831	17156
40°	12271	16115	10608	16115
45°	10723	14908	10305	14908
50°	10078	13742	10105	13742
55°	9292	12555	9833	12555
60°	8512	11296	9416	11296
65°	7755	10166	9005	10166
70°	7039	9064	8403	9064
75°	6245	7829	7442	7829
80°	5374	6481	5997	6481
85°	4817	4817	3557	4817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.6
10°-20°	346.6	4.6
20°-30°	503.1	6.7
30°-40°	530.9	7.1
40°-50°	470.0	6.3
50°-60°	375.1	5.0
60°-70°	254.9	3.4
70°-80°	130.7	1.7
80°-90°	38.2	0.5
90°-100°	106.7	1.4
100°-110°	331.4	4.4
110°-120°	566.4	7.6
120°-130°	744.9	10.0
130°-140°	836.1	11.2
140°-150°	819.8	11.0
150°-160°	687.6	9.2
160°-170°	456.0	6.1
170°-180°	159.4	2.1
0°-30°	968.9	13.0
0°-40°	1499.8	20.1
0°-60°	2344.9	31.4
0°-90°	2768.8	37.0
90°-120°	1004.5	13.4
90°-150°	3405.2	45.5
90°-180°	4708.0	63.0
0°-180°	7477.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1398	1255	1112	1255	1398	140
15°	1719	1185	825	1185	1719	474
25°	1432	1060	662	1060	1432	647
35°	780	870	550	870	780	507
45°	470	653	451	653	470	369
55°	330	446	349	446	330	296
65°	203	266	236	266	203	202
75°	100	126	119	126	100	107
85°	26	26	19	26	26	30
90°	48	1	48	1	48	22
95°	88	74	88	74	88	98
105°	316	306	316	306	316	332
115°	568	568	568	568	568	561
125°	830	827	830	827	830	740
135°	1083	1070	1083	1070	1083	833
145°	1313	1299	1313	1299	1313	820
155°	1496	1485	1496	1485	1496	689
165°	1617	1616	1617	1616	1617	456
175°	1675	1681	1675	1681	1675	159
180°	1684	1684	1684	1684	1684	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1309.7	1310.0	1310.9	1304.7	1303.9	1303.9	1298.5	1293.9	1288.5	1281.2	1282.0
5°	1398.3	1403.5	1405.4	1399.7	1391.0	1390.1	1381.9	1368.4	1355.8	1345.8	1338.6
7.5°	1503.9	1506.0	1501.3	1493.6	1487.2	1475.7	1460.5	1445.6	1424.7	1405.5	1391.3
10°	1583.9	1586.9	1578.7	1567.6	1558.5	1545.0	1522.9	1500.2	1472.8	1446.3	1425.1
12.5°	1644.7	1651.9	1641.4	1639.9	1624.3	1605.8	1579.4	1568.0	1529.4	1492.5	1469.8
15°	1718.6	1718.2	1719.2	1710.1	1698.5	1695.5	1667.6	1637.4	1583.0	1561.3	1523.8
17.5°	1697.3	1704.6	1708.0	1707.9	1707.6	1705.8	1696.9	1677.7	1650.5	1615.3	1572.0
20°	1646.5	1656.1	1657.6	1668.7	1674.9	1683.1	1686.4	1681.1	1664.3	1634.9	1597.4
22.5°	1568.0	1570.7	1575.2	1592.4	1606.0	1626.5	1637.2	1655.0	1648.5	1634.2	1602.8
25°	1431.9	1427.1	1444.0	1452.6	1483.8	1516.6	1540.2	1566.1	1589.2	1603.2	1594.0
27.5°	1268.5	1261.3	1286.5	1309.5	1334.9	1370.4	1407.1	1450.5	1486.6	1531.7	1547.2
30°	1130.7	1135.0	1159.1	1183.6	1222.1	1272.1	1313.5	1361.2	1412.7	1463.2	1498.3
32.5°	982.1	998.8	1014.0	1051.6	1085.4	1141.3	1201.9	1261.5	1325.7	1383.1	1437.5
35°	779.5	798.7	819.9	847.3	894.9	950.3	1009.5	1089.8	1177.4	1255.8	1320.3
37.5°	656.1	653.0	665.2	684.9	723.6	768.2	836.3	915.8	1018.8	1111.0	1201.9
40°	582.2	580.2	588.9	607.2	636.6	669.3	729.0	798.7	894.5	1007.0	1115.3
42.5°	531.4	532.5	537.3	550.3	570.3	597.3	642.0	701.3	789.0	895.0	1011.3
45°	469.6	473.0	478.2	484.6	496.1	518.2	543.2	585.6	654.9	743.4	857.9
47.5°	425.2	425.3	430.6	436.1	443.0	455.4	475.9	502.4	551.3	623.4	721.8
50°	401.2	397.9	401.8	406.0	413.3	422.0	435.5	460.4	493.1	551.4	633.7
52.5°	372.0	372.1	375.6	377.2	383.7	392.3	404.6	422.0	451.6	497.1	564.8
55°	330.1	332.4	334.4	337.2	343.1	349.3	358.9	370.5	393.6	427.7	477.8
57.5°	290.6	291.3	293.3	298.8	302.5	308.2	317.4	327.8	342.9	368.2	405.8
60°	263.6	263.6	267.5	269.9	274.8	280.5	287.8	297.8	311.3	332.0	362.3
62.5°	239.0	238.7	240.2	244.1	247.8	253.2	260.4	269.0	281.6	300.0	325.0
65°	203.0	202.1	205.0	205.9	209.8	215.1	220.8	230.0	240.1	253.5	275.7
67.5°	168.4	169.6	171.1	173.0	175.0	180.6	184.5	191.0	199.4	210.7	225.6
70°	149.1	149.1	149.1	150.6	153.4	156.4	160.2	165.5	173.7	183.3	196.8
72.5°	127.6	129.1	130.6	129.8	133.5	135.2	139.8	142.8	150.6	156.7	168.7
75°	100.1	100.1	100.1	102.5	104.0	105.4	108.3	111.1	115.0	122.7	128.9
77.5°	74.6	74.5	74.9	75.5	77.1	78.8	79.6	82.3	85.9	89.4	94.7
80°	57.8	58.7	59.2	60.1	60.1	61.1	61.5	64.9	67.4	69.7	73.1
82.5°	44.7	44.9	45.0	45.1	45.5	46.1	47.3	48.4	49.3	51.3	53.9
85°	26.0	25.5	25.5	26.5	26.0	26.0	27.0	27.9	27.9	28.4	29.8
87.5°	19.7	19.6	19.9	19.5	19.4	19.8	20.0	19.7	20.2	20.7	19.7
90°	48.4	48.0	47.7	47.4	47.0	47.2	47.9	48.4	49.1	49.8	42.8
92.5°	46.0	46.0	45.9	45.8	45.8	45.7	45.5	45.4	45.3	45.1	43.5
95°	88.1	88.7	89.4	90.0	90.6	91.0	91.0	91.0	91.0	91.0	90.3
97.5°	152.6	152.7	152.7	152.8	152.9	152.9	152.9	152.9	152.9	152.9	151.7
100°	194.6	195.0	195.3	195.6	196.0	196.0	196.0	196.0	196.0	196.0	195.1
102.5°	242.4	242.7	243.1	243.4	243.6	243.7	243.5	243.2	243.0	242.7	241.5
105°	315.5	315.5	315.5	315.5	315.5	315.1	314.5	313.9	313.2	312.6	312.0
107.5°	384.2	385.7	387.1	388.6	390.0	390.6	390.4	390.1	389.8	389.6	389.6
110°	437.6	438.6	439.5	440.5	441.4	442.0	442.0	442.0	442.0	442.0	442.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	488.8	489.5	490.2	490.9	491.5	492.3	493.0	493.8	494.6	495.3	495.6
115°	568.4	569.3	570.2	571.2	572.1	572.8	573.1	573.4	573.7	574.1	574.7
117.5°	644.2	645.2	646.1	647.1	648.0	648.9	649.7	650.4	651.2	652.0	653.7
120°	697.7	698.6	699.6	700.5	701.4	701.9	701.9	701.9	701.9	701.9	704.5
122.5°	750.0	750.6	751.4	752.1	752.7	753.5	754.2	755.0	755.7	756.5	758.3
125°	829.8	830.2	830.5	830.8	831.1	831.7	832.6	833.6	834.5	835.5	836.5
127.5°	902.6	903.6	904.6	905.6	906.6	907.7	908.8	909.9	911.1	912.3	913.4
130°	954.9	956.1	957.4	958.7	959.9	960.8	961.5	962.1	962.8	963.4	964.0
132.5°	1004.8	1005.9	1006.9	1008.0	1008.9	1010.1	1011.5	1013.0	1014.3	1015.7	1015.6
135°	1082.8	1083.7	1084.7	1085.6	1086.6	1087.2	1087.5	1087.8	1088.2	1088.4	1087.8
137.5°	1153.2	1154.5	1155.7	1157.1	1158.3	1159.0	1159.3	1159.5	1159.8	1160.1	1159.2
140°	1202.1	1203.3	1204.7	1205.9	1207.2	1207.8	1207.8	1207.8	1207.8	1207.8	1206.3
142.5°	1246.4	1247.7	1249.0	1250.3	1251.5	1252.0	1251.8	1251.5	1251.2	1251.0	1249.9
145°	1313.0	1314.2	1315.5	1316.7	1318.0	1318.4	1318.1	1317.9	1317.5	1317.2	1315.3
147.5°	1372.3	1373.6	1374.7	1375.9	1377.1	1377.4	1376.7	1376.0	1375.4	1374.6	1373.4
150°	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8	1413.8	1412.9	1411.9	1411.0	1409.8
152.5°	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2	1451.0	1449.7	1448.6	1447.4	1445.9
155°	1496.3	1497.2	1498.2	1499.1	1500.1	1499.7	1498.2	1496.6	1495.0	1493.4	1492.4
157.5°	1538.3	1539.8	1541.3	1542.8	1544.4	1544.1	1541.9	1539.7	1537.6	1535.5	1534.9
160°	1564.4	1565.8	1567.0	1568.2	1569.5	1569.1	1567.3	1565.4	1563.5	1561.6	1561.3
162.5°	1587.1	1588.7	1590.3	1591.8	1593.3	1592.9	1590.8	1588.7	1586.5	1584.3	1584.0
165°	1617.0	1618.6	1620.2	1621.7	1623.3	1623.1	1620.8	1618.6	1616.4	1614.2	1614.2
167.5°	1641.4	1643.1	1644.7	1646.4	1648.0	1647.8	1645.6	1643.3	1641.2	1638.9	1639.0
170°	1654.0	1655.9	1657.7	1659.6	1661.5	1661.4	1659.2	1657.0	1654.7	1652.6	1652.8
172.5°	1664.2	1666.1	1668.0	1669.9	1671.8	1671.6	1669.4	1667.2	1665.0	1662.7	1663.1
175°	1675.3	1677.2	1679.0	1680.9	1682.9	1682.7	1680.5	1678.3	1676.1	1673.9	1674.5
177.5°	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5	1685.0	1683.5	1681.9	1680.4	1680.9
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1284.7	1281.6	1279.7	1272.7	1266.6	1260.5	1258.5	1259.2	1250.8	1242.7	1239.3
5°	1334.7	1325.1	1316.0	1303.0	1287.6	1270.7	1262.1	1255.3	1238.5	1220.2	1209.7
7.5°	1379.6	1365.8	1348.2	1323.7	1301.4	1274.9	1258.0	1243.1	1218.4	1192.7	1176.9
10°	1406.9	1388.1	1365.5	1335.7	1308.2	1276.0	1253.4	1230.8	1201.9	1171.1	1151.9
12.5°	1430.4	1405.0	1382.8	1344.5	1312.1	1271.8	1244.9	1213.1	1182.7	1146.1	1127.3
15°	1486.3	1439.6	1397.2	1354.0	1314.0	1257.7	1227.9	1185.1	1145.1	1099.9	1078.3
17.5°	1529.5	1477.1	1410.3	1355.3	1308.7	1246.4	1202.6	1151.3	1104.1	1052.3	1022.9
20°	1554.2	1493.9	1422.3	1356.9	1301.0	1229.8	1182.2	1129.7	1074.4	1016.2	984.4
22.5°	1568.8	1505.5	1434.6	1351.0	1285.6	1216.4	1156.4	1098.9	1042.8	980.1	946.7
25°	1573.4	1515.6	1440.6	1346.2	1266.4	1188.0	1115.8	1060.0	992.1	933.4	884.9
27.5°	1550.5	1509.1	1436.9	1337.2	1244.2	1152.4	1072.0	1008.8	937.2	873.5	824.6
30°	1522.4	1498.3	1428.0	1327.9	1226.4	1127.8	1039.2	967.6	896.4	831.9	781.8
32.5°	1478.8	1473.7	1411.9	1314.8	1207.6	1096.6	1005.0	932.6	853.7	790.3	742.6
35°	1393.5	1416.5	1377.5	1285.6	1172.1	1052.3	953.2	870.4	788.6	728.0	683.2
37.5°	1278.9	1336.2	1326.1	1242.8	1124.2	1004.0	894.6	808.0	730.1	668.9	625.0
40°	1200.0	1273.1	1283.7	1210.1	1090.3	966.7	850.6	764.6	688.5	632.7	588.4
42.5°	1115.3	1200.8	1229.8	1170.8	1053.3	927.4	811.4	722.2	647.0	592.7	553.5
45°	973.4	1086.5	1138.9	1105.2	991.6	862.7	743.4	652.9	584.6	533.6	503.3
47.5°	840.7	964.2	1034.7	1022.8	923.0	795.3	677.4	590.6	524.1	483.3	456.2
50°	746.8	873.7	958.9	962.8	873.7	747.2	628.9	547.1	486.0	448.0	425.8
52.5°	665.2	786.4	879.3	899.7	818.7	697.2	585.4	504.0	450.2	415.2	395.4
55°	558.6	661.1	764.0	801.6	736.6	621.1	517.7	446.0	395.5	371.5	354.1
57.5°	464.4	549.9	645.0	686.5	646.4	547.5	450.5	388.3	347.3	326.2	312.9
60°	414.7	482.1	566.8	616.3	581.7	493.7	409.0	349.8	316.1	297.4	284.8
62.5°	368.5	428.2	499.8	545.2	526.3	443.3	367.4	315.2	286.1	268.4	259.5
65°	304.1	351.3	406.6	448.5	435.9	372.9	310.9	266.1	243.0	229.0	221.8
67.5°	250.4	284.5	322.8	359.5	349.4	304.7	255.0	220.1	202.8	190.9	186.5
70°	216.5	242.5	276.6	306.0	297.8	261.3	221.8	192.0	177.1	166.9	162.6
72.5°	184.2	205.6	231.6	255.6	250.1	219.7	186.8	164.3	152.8	143.5	139.9
75°	139.0	155.4	171.3	187.2	185.7	162.1	142.9	125.5	116.4	109.2	107.7
77.5°	102.6	111.8	122.6	132.1	129.4	115.9	100.9	91.0	84.2	79.4	78.6
80°	78.4	83.7	91.4	98.1	94.8	89.0	77.0	69.7	64.9	60.1	58.2
82.5°	56.8	62.2	66.8	70.4	67.9	62.5	55.0	50.1	47.2	44.0	43.2
85°	29.8	32.7	34.7	35.6	34.7	31.3	27.9	26.0	23.6	22.1	21.7
87.5°	18.8	17.3	15.9	15.6	13.8	13.0	10.7	8.8	9.1	9.5	9.5
90°	35.8	28.9	22.0	16.6	12.8	9.0	5.2	1.4	5.2	9.0	12.8
92.5°	41.9	40.2	38.6	36.4	33.6	30.8	28.1	25.3	28.1	30.8	33.6
95°	89.6	89.1	88.4	86.5	83.3	80.2	77.0	73.9	77.0	80.2	83.3
97.5°	150.5	149.3	148.1	146.1	143.4	140.5	137.8	135.0	137.8	140.5	143.4
100°	194.2	193.2	192.3	190.6	188.0	185.5	182.9	180.5	182.9	185.5	188.0
102.5°	240.3	239.1	237.9	236.3	234.2	232.2	230.3	228.2	230.3	232.2	234.2
105°	311.3	310.8	310.1	309.2	308.3	307.4	306.4	305.5	306.4	307.4	308.3
107.5°	389.6	389.6	389.6	388.9	387.6	386.2	384.7	383.3	384.7	386.2	387.6
110°	442.0	442.0	442.0	440.9	439.0	437.2	435.3	433.4	435.3	437.2	439.0



TEST NUMBER: P331550-830

CATALOG NUMBER: S122DIW-S675D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	495.9	496.1	496.3	495.5	493.6	491.7	489.8	488.0	489.8	491.7	493.6
115°	575.3	576.0	576.6	576.0	574.1	572.1	570.2	568.4	570.2	572.1	574.1
117.5°	655.4	657.2	659.0	658.6	656.1	653.6	651.0	648.6	651.0	653.6	656.1
120°	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9	704.5	707.0	709.5
122.5°	760.1	761.9	763.6	763.0	759.9	756.9	753.8	750.8	753.8	756.9	759.9
125°	837.4	838.4	839.3	838.4	835.5	832.6	829.8	827.0	829.8	832.6	835.5
127.5°	914.5	915.7	916.8	915.6	912.0	908.3	904.7	901.2	904.7	908.3	912.0
130°	964.7	965.3	965.9	964.2	960.1	956.0	951.9	947.7	951.9	956.0	960.1
132.5°	1015.4	1015.3	1015.2	1013.4	1010.1	1006.7	1003.4	1000.0	1003.4	1006.7	1010.1
135°	1087.2	1086.6	1085.9	1083.8	1080.3	1076.9	1073.5	1070.0	1073.5	1076.9	1080.3
137.5°	1158.4	1157.6	1156.8	1154.9	1152.1	1149.2	1146.4	1143.6	1146.4	1149.2	1152.1
140°	1204.7	1203.1	1201.5	1199.3	1196.5	1193.6	1190.7	1187.9	1190.7	1193.6	1196.5
142.5°	1248.9	1247.7	1246.7	1244.7	1241.9	1239.1	1236.2	1233.4	1236.2	1239.1	1241.9
145°	1313.4	1311.5	1309.7	1307.6	1305.3	1303.2	1301.0	1298.7	1301.0	1303.2	1305.3
147.5°	1372.1	1370.8	1369.6	1367.6	1365.0	1362.3	1359.6	1357.0	1359.6	1362.3	1365.0
150°	1408.4	1407.2	1405.9	1404.4	1402.5	1400.6	1398.6	1396.8	1398.6	1400.6	1402.5
152.5°	1444.4	1442.8	1441.3	1439.6	1437.7	1435.8	1433.9	1432.0	1433.9	1435.8	1437.7
155°	1491.5	1490.5	1489.6	1488.7	1487.7	1486.8	1485.8	1484.9	1485.8	1486.8	1487.7
157.5°	1534.4	1533.8	1533.2	1532.6	1532.0	1531.3	1530.7	1530.0	1530.7	1531.3	1532.0
160°	1560.9	1560.7	1560.4	1559.9	1559.2	1558.6	1558.0	1557.4	1558.0	1558.6	1559.2
162.5°	1583.8	1583.4	1583.1	1582.9	1582.7	1582.6	1582.5	1582.3	1582.5	1582.6	1582.7
165°	1614.2	1614.2	1614.2	1614.4	1614.7	1615.0	1615.3	1615.6	1615.3	1615.0	1614.7
167.5°	1639.1	1639.1	1639.2	1639.6	1640.6	1641.5	1642.5	1643.4	1642.5	1641.5	1640.6
170°	1653.2	1653.5	1653.8	1654.4	1655.4	1656.3	1657.3	1658.2	1657.3	1656.3	1655.4
172.5°	1663.4	1663.8	1664.1	1664.7	1665.7	1666.6	1667.5	1668.5	1667.5	1666.6	1665.7
175°	1675.1	1675.7	1676.4	1677.2	1678.1	1679.0	1680.0	1680.9	1680.0	1679.0	1678.1
177.5°	1681.4	1681.9	1682.4	1683.1	1683.9	1684.6	1685.4	1686.1	1685.4	1684.6	1683.9
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331550-830

CATALOG NUMBER: S122DIW-S675D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1235.4	1233.1	1225.0	1220.8	1213.8	1207.3	1203.1	1205.0	1206.5	1205.8	1204.6
5°	1200.0	1190.8	1176.9	1164.9	1156.2	1140.3	1133.6	1130.2	1127.4	1124.0	1120.6
7.5°	1157.8	1143.4	1123.4	1106.3	1090.1	1070.4	1059.1	1052.3	1045.5	1037.8	1031.1
10°	1127.8	1107.6	1086.5	1062.3	1043.1	1025.3	1009.5	998.9	989.3	980.1	973.4
12.5°	1096.3	1073.0	1046.8	1013.9	992.7	967.2	964.8	946.1	931.1	925.5	917.6
15°	1046.0	1013.3	980.1	941.1	924.3	901.2	886.7	872.3	859.3	850.2	847.8
17.5°	988.9	946.6	913.6	885.6	858.0	834.3	821.0	809.5	798.8	786.6	784.9
20°	945.5	908.9	872.8	848.3	819.9	795.8	779.5	767.9	758.7	751.6	745.3
22.5°	904.3	864.2	831.2	804.4	776.4	757.0	744.0	732.9	725.3	717.3	711.4
25°	838.2	806.9	770.8	740.5	717.4	704.9	694.3	684.7	679.9	674.6	667.9
27.5°	780.3	745.6	711.8	688.3	668.1	657.0	649.4	642.9	638.4	635.3	631.5
30°	739.5	704.4	678.0	654.9	638.0	627.0	622.2	618.3	613.0	611.1	609.2
32.5°	700.3	668.6	646.0	625.9	609.9	602.7	598.2	594.8	590.7	588.7	584.8
35°	644.7	618.3	596.2	585.0	572.1	565.8	562.5	557.6	553.8	551.9	551.4
37.5°	592.5	569.5	555.0	540.7	535.3	531.4	526.8	523.5	522.4	522.1	521.6
40°	558.6	539.9	526.9	515.3	512.9	507.1	503.3	500.4	500.4	500.9	500.4
42.5°	527.8	511.0	499.5	489.6	486.7	483.2	479.4	479.2	480.0	481.6	480.0
45°	481.2	469.1	460.9	456.1	450.8	447.4	447.0	448.5	448.9	449.4	450.8
47.5°	438.2	430.3	422.8	417.5	415.2	414.6	414.1	416.6	418.9	419.7	422.0
50°	412.8	403.7	397.5	394.1	392.1	391.2	391.2	395.0	396.9	399.4	400.8
52.5°	384.4	377.9	373.5	371.0	370.2	370.8	371.0	374.3	377.3	378.1	378.9
55°	345.0	340.2	339.2	334.9	336.8	336.3	338.7	340.6	343.6	346.4	346.9
57.5°	305.8	301.9	299.3	299.6	300.2	302.4	304.3	307.7	310.9	313.9	314.1
60°	279.6	277.6	276.2	276.2	277.1	280.0	282.5	285.8	287.8	289.6	291.1
62.5°	255.7	253.7	252.3	253.1	255.6	257.3	260.1	261.9	263.8	265.8	266.5
65°	217.9	217.0	218.5	219.4	219.9	222.3	225.6	227.1	229.0	230.0	233.4
67.5°	183.2	183.4	183.2	184.5	187.4	187.9	191.1	194.4	194.8	196.7	198.9
70°	159.8	160.7	161.6	162.6	165.0	166.0	168.4	169.8	171.7	173.2	174.7
72.5°	138.2	138.4	139.3	139.1	141.2	143.3	145.3	146.8	148.6	150.5	151.9
75°	106.3	106.3	107.3	107.7	110.2	112.6	112.1	113.1	115.0	116.9	117.9
77.5°	77.7	76.6	77.7	78.1	78.9	81.0	81.3	82.7	84.8	84.2	85.3
80°	59.2	57.8	59.2	59.7	59.7	62.1	62.1	63.1	64.5	63.1	64.5
82.5°	42.2	41.6	42.6	42.7	43.5	43.5	44.4	44.6	46.0	45.3	46.0
85°	21.2	20.7	21.2	20.7	21.2	21.7	21.7	21.2	21.2	22.1	20.7
87.5°	9.9	10.6	11.6	12.9	13.9	15.0	14.4	14.3	14.2	13.3	13.3
90°	16.6	22.0	28.9	35.8	42.8	49.8	49.1	48.4	47.9	47.2	47.0
92.5°	36.4	38.6	40.2	41.9	43.5	45.1	45.3	45.4	45.5	45.7	45.8
95°	86.5	88.4	89.1	89.6	90.3	91.0	91.0	91.0	91.0	91.0	90.6
97.5°	146.1	148.1	149.3	150.5	151.7	152.9	152.9	152.9	152.9	152.9	152.9
100°	190.6	192.3	193.2	194.2	195.1	196.0	196.0	196.0	196.0	196.0	196.0
102.5°	236.3	237.9	239.1	240.3	241.5	242.7	243.0	243.2	243.5	243.7	243.6
105°	309.2	310.1	310.8	311.3	312.0	312.6	313.2	313.9	314.5	315.1	315.5
107.5°	388.9	389.6	389.6	389.6	389.6	389.6	389.8	390.1	390.4	390.6	390.0
110°	440.9	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	441.4



TEST NUMBER: P331550-830

CATALOG NUMBER: S122DIW-S675D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	495.5	496.3	496.1	495.9	495.6	495.3	494.6	493.8	493.0	492.3	491.5
115°	576.0	576.6	576.0	575.3	574.7	574.1	573.7	573.4	573.1	572.8	572.1
117.5°	658.6	659.0	657.2	655.4	653.7	652.0	651.2	650.4	649.7	648.9	648.0
120°	712.1	712.1	709.5	707.0	704.5	701.9	701.9	701.9	701.9	701.9	701.4
122.5°	763.0	763.6	761.9	760.1	758.3	756.5	755.7	755.0	754.2	753.5	752.7
125°	838.4	839.3	838.4	837.4	836.5	835.5	834.5	833.6	832.6	831.7	831.1
127.5°	915.6	916.8	915.7	914.5	913.4	912.3	911.1	909.9	908.8	907.7	906.6
130°	964.2	965.9	965.3	964.7	964.0	963.4	962.8	962.1	961.5	960.8	959.9
132.5°	1013.4	1015.2	1015.3	1015.4	1015.6	1015.7	1014.3	1013.0	1011.5	1010.1	1008.9
135°	1083.8	1085.9	1086.6	1087.2	1087.8	1088.4	1088.2	1087.8	1087.5	1087.2	1086.6
137.5°	1154.9	1156.8	1157.6	1158.4	1159.2	1160.1	1159.8	1159.5	1159.3	1159.0	1158.3
140°	1199.3	1201.5	1203.1	1204.7	1206.3	1207.8	1207.8	1207.8	1207.8	1207.8	1207.2
142.5°	1244.7	1246.7	1247.7	1248.9	1249.9	1251.0	1251.2	1251.5	1251.8	1252.0	1251.5
145°	1307.6	1309.7	1311.5	1313.4	1315.3	1317.2	1317.5	1317.9	1318.1	1318.4	1318.0
147.5°	1367.6	1369.6	1370.8	1372.1	1373.4	1374.6	1375.4	1376.0	1376.7	1377.4	1377.1
150°	1404.4	1405.9	1407.2	1408.4	1409.8	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8
152.5°	1439.6	1441.3	1442.8	1444.4	1445.9	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2
155°	1488.7	1489.6	1490.5	1491.5	1492.4	1493.4	1495.0	1496.6	1498.2	1499.7	1500.1
157.5°	1532.6	1533.2	1533.8	1534.4	1534.9	1535.5	1537.6	1539.7	1541.9	1544.1	1544.4
160°	1559.9	1560.4	1560.7	1560.9	1561.3	1561.6	1563.5	1565.4	1567.3	1569.1	1569.5
162.5°	1582.9	1583.1	1583.4	1583.8	1584.0	1584.3	1586.5	1588.7	1590.8	1592.9	1593.3
165°	1614.4	1614.2	1614.2	1614.2	1614.2	1614.2	1616.4	1618.6	1620.8	1623.1	1623.3
167.5°	1639.6	1639.2	1639.1	1639.1	1639.0	1638.9	1641.2	1643.3	1645.6	1647.8	1648.0
170°	1654.4	1653.8	1653.5	1653.2	1652.8	1652.6	1654.7	1657.0	1659.2	1661.4	1661.5
172.5°	1664.7	1664.1	1663.8	1663.4	1663.1	1662.7	1665.0	1667.2	1669.4	1671.6	1671.8
175°	1677.2	1676.4	1675.7	1675.1	1674.5	1673.9	1676.1	1678.3	1680.5	1682.7	1682.9
177.5°	1683.1	1682.4	1681.9	1681.4	1680.9	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331550-830

CATALOG NUMBER: S122DIW-S675D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1200.8	1200.0	1200.0	1196.6	1200.0	1200.0	1200.8	1204.6	1205.8	1206.5	1205.0
5°	1113.9	1112.4	1110.0	1112.4	1110.0	1112.4	1113.9	1120.6	1124.0	1127.4	1130.2
7.5°	1027.9	1022.2	1021.3	1015.6	1021.3	1022.2	1027.9	1031.1	1037.8	1045.5	1052.3
10°	965.2	961.3	960.8	951.7	960.8	961.3	965.2	973.4	980.1	989.3	998.9
12.5°	917.5	908.2	910.0	904.7	910.0	908.2	917.5	917.6	925.5	931.1	946.1
15°	834.8	834.8	832.8	824.7	832.8	834.8	834.8	847.8	850.2	859.3	872.3
17.5°	775.4	774.5	769.9	772.1	769.9	774.5	775.4	784.9	786.6	798.8	809.5
20°	740.0	737.2	731.3	731.3	731.3	737.2	740.0	745.3	751.6	758.7	767.9
22.5°	706.5	706.3	700.2	702.1	700.2	706.3	706.5	711.4	717.3	725.3	732.9
25°	667.3	663.5	660.6	662.0	660.6	663.5	667.3	667.9	674.6	679.9	684.7
27.5°	630.2	628.1	627.9	624.0	627.9	628.1	630.2	631.5	635.3	638.4	642.9
30°	608.7	603.9	604.8	602.4	604.8	603.9	608.7	609.2	611.1	613.0	618.3
32.5°	584.0	582.3	581.4	579.3	581.4	582.3	584.0	584.8	588.7	590.7	594.8
35°	550.4	550.9	548.6	549.5	548.6	550.9	550.4	551.4	551.9	553.8	557.6
37.5°	521.1	522.6	521.5	521.8	521.5	522.6	521.1	521.6	522.1	522.4	523.5
40°	501.8	501.8	501.8	503.3	501.8	501.8	501.8	500.4	500.9	500.4	500.4
42.5°	483.3	482.6	481.8	481.7	481.8	482.6	483.3	480.0	481.6	480.0	479.2
45°	451.8	453.3	453.7	451.3	453.7	453.3	451.8	450.8	449.4	448.9	448.5
47.5°	423.2	423.4	423.2	425.4	423.2	423.4	423.2	422.0	419.7	418.9	416.6
50°	403.2	402.3	403.2	402.3	403.2	402.3	403.2	400.8	399.4	396.9	395.0
52.5°	382.0	382.2	381.6	381.4	381.6	382.2	382.0	378.9	378.1	377.3	374.3
55°	348.8	349.8	349.3	349.3	349.3	349.8	348.8	346.9	346.4	343.6	340.6
57.5°	314.5	315.4	316.0	313.9	316.0	315.4	314.5	314.1	313.9	310.9	307.7
60°	290.6	293.0	292.6	291.6	292.6	293.0	290.6	291.1	289.6	287.8	285.8
62.5°	268.7	269.6	269.5	269.3	269.5	269.6	268.7	266.5	265.8	263.8	261.9
65°	234.8	235.7	234.3	235.7	234.3	235.7	234.8	233.4	230.0	229.0	227.1
67.5°	198.3	198.6	199.7	200.4	199.7	198.6	198.3	198.9	196.7	194.8	194.4
70°	175.6	175.1	176.5	178.0	176.5	175.1	175.6	174.7	173.2	171.7	169.8
72.5°	151.7	152.8	152.3	153.4	152.3	152.8	151.7	151.9	150.5	148.6	146.8
75°	116.9	118.4	117.9	119.3	117.9	118.4	116.9	117.9	116.9	115.0	113.1
77.5°	84.5	84.6	84.5	85.3	84.5	84.6	84.5	85.3	84.2	84.8	82.7
80°	64.5	63.5	62.6	64.5	62.6	63.5	64.5	64.5	63.1	64.5	63.1
82.5°	44.9	45.4	44.5	44.5	44.5	45.4	44.9	46.0	45.3	46.0	44.6
85°	20.7	20.2	19.2	19.2	19.2	20.2	20.7	20.7	22.1	21.2	21.2
87.5°	13.3	13.0	13.1	12.7	13.1	13.0	13.3	13.3	13.3	14.2	14.3
90°	47.4	47.7	48.0	48.4	48.0	47.7	47.4	47.0	47.2	47.9	48.4
92.5°	45.8	45.9	46.0	46.0	46.0	45.9	45.8	45.8	45.7	45.5	45.4
95°	90.0	89.4	88.7	88.1	88.7	89.4	90.0	90.6	91.0	91.0	91.0
97.5°	152.8	152.7	152.7	152.6	152.7	152.7	152.8	152.9	152.9	152.9	152.9
100°	195.6	195.3	195.0	194.6	195.0	195.3	195.6	196.0	196.0	196.0	196.0
102.5°	243.4	243.1	242.7	242.4	242.7	243.1	243.4	243.6	243.7	243.5	243.2
105°	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.1	314.5	313.9
107.5°	388.6	387.1	385.7	384.2	385.7	387.1	388.6	390.0	390.6	390.4	390.1
110°	440.5	439.5	438.6	437.6	438.6	439.5	440.5	441.4	442.0	442.0	442.0



TEST NUMBER: P331550-830

CATALOG NUMBER: S122DIW-S675D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	490.9	490.2	489.5	488.8	489.5	490.2	490.9	491.5	492.3	493.0	493.8
115°	571.2	570.2	569.3	568.4	569.3	570.2	571.2	572.1	572.8	573.1	573.4
117.5°	647.1	646.1	645.2	644.2	645.2	646.1	647.1	648.0	648.9	649.7	650.4
120°	700.5	699.6	698.6	697.7	698.6	699.6	700.5	701.4	701.9	701.9	701.9
122.5°	752.1	751.4	750.6	750.0	750.6	751.4	752.1	752.7	753.5	754.2	755.0
125°	830.8	830.5	830.2	829.8	830.2	830.5	830.8	831.1	831.7	832.6	833.6
127.5°	905.6	904.6	903.6	902.6	903.6	904.6	905.6	906.6	907.7	908.8	909.9
130°	958.7	957.4	956.1	954.9	956.1	957.4	958.7	959.9	960.8	961.5	962.1
132.5°	1008.0	1006.9	1005.9	1004.8	1005.9	1006.9	1008.0	1008.9	1010.1	1011.5	1013.0
135°	1085.6	1084.7	1083.7	1082.8	1083.7	1084.7	1085.6	1086.6	1087.2	1087.5	1087.8
137.5°	1157.1	1155.7	1154.5	1153.2	1154.5	1155.7	1157.1	1158.3	1159.0	1159.3	1159.5
140°	1205.9	1204.7	1203.3	1202.1	1203.3	1204.7	1205.9	1207.2	1207.8	1207.8	1207.8
142.5°	1250.3	1249.0	1247.7	1246.4	1247.7	1249.0	1250.3	1251.5	1252.0	1251.8	1251.5
145°	1316.7	1315.5	1314.2	1313.0	1314.2	1315.5	1316.7	1318.0	1318.4	1318.1	1317.9
147.5°	1375.9	1374.7	1373.6	1372.3	1373.6	1374.7	1375.9	1377.1	1377.4	1376.7	1376.0
150°	1413.8	1412.9	1411.9	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8	1413.8	1412.9
152.5°	1451.0	1449.7	1448.6	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2	1451.0	1449.7
155°	1499.1	1498.2	1497.2	1496.3	1497.2	1498.2	1499.1	1500.1	1499.7	1498.2	1496.6
157.5°	1542.8	1541.3	1539.8	1538.3	1539.8	1541.3	1542.8	1544.4	1544.1	1541.9	1539.7
160°	1568.2	1567.0	1565.8	1564.4	1565.8	1567.0	1568.2	1569.5	1569.1	1567.3	1565.4
162.5°	1591.8	1590.3	1588.7	1587.1	1588.7	1590.3	1591.8	1593.3	1592.9	1590.8	1588.7
165°	1621.7	1620.2	1618.6	1617.0	1618.6	1620.2	1621.7	1623.3	1623.1	1620.8	1618.6
167.5°	1646.4	1644.7	1643.1	1641.4	1643.1	1644.7	1646.4	1648.0	1647.8	1645.6	1643.3
170°	1659.6	1657.7	1655.9	1654.0	1655.9	1657.7	1659.6	1661.5	1661.4	1659.2	1657.0
172.5°	1669.9	1668.0	1666.1	1664.2	1666.1	1668.0	1669.9	1671.8	1671.6	1669.4	1667.2
175°	1680.9	1679.0	1677.2	1675.3	1677.2	1679.0	1680.9	1682.9	1682.7	1680.5	1678.3
177.5°	1685.0	1683.5	1681.9	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5	1685.0	1683.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331550-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1203.1	1207.3	1213.8	1220.8	1225.0	1233.1	1235.4	1239.3	1242.7	1250.8	1259.2
5°	1133.6	1140.3	1156.2	1164.9	1176.9	1190.8	1200.0	1209.7	1220.2	1238.5	1255.3
7.5°	1059.1	1070.4	1090.1	1106.3	1123.4	1143.4	1157.8	1176.9	1192.7	1218.4	1243.1
10°	1009.5	1025.3	1043.1	1062.3	1086.5	1107.6	1127.8	1151.9	1171.1	1201.9	1230.8
12.5°	964.8	967.2	992.7	1013.9	1046.8	1073.0	1096.3	1127.3	1146.1	1182.7	1213.1
15°	886.7	901.2	924.3	941.1	980.1	1013.3	1046.0	1078.3	1099.9	1145.1	1185.1
17.5°	821.0	834.3	858.0	885.6	913.6	946.6	988.9	1022.9	1052.3	1104.1	1151.3
20°	779.5	795.8	819.9	848.3	872.8	908.9	945.5	984.4	1016.2	1074.4	1129.7
22.5°	744.0	757.0	776.4	804.4	831.2	864.2	904.3	946.7	980.1	1042.8	1098.9
25°	694.3	704.9	717.4	740.5	770.8	806.9	838.2	884.9	933.4	992.1	1060.0
27.5°	649.4	657.0	668.1	688.3	711.8	745.6	780.3	824.6	873.5	937.2	1008.8
30°	622.2	627.0	638.0	654.9	678.0	704.4	739.5	781.8	831.9	896.4	967.6
32.5°	598.2	602.7	609.9	625.9	646.0	668.6	700.3	742.6	790.3	853.7	932.6
35°	562.5	565.8	572.1	585.0	596.2	618.3	644.7	683.2	728.0	788.6	870.4
37.5°	526.8	531.4	535.3	540.7	555.0	569.5	592.5	625.0	668.9	730.1	808.0
40°	503.3	507.1	512.9	515.3	526.9	539.9	558.6	588.4	632.7	688.5	764.6
42.5°	479.4	483.2	486.7	489.6	499.5	511.0	527.8	553.5	592.7	647.0	722.2
45°	447.0	447.4	450.8	456.1	460.9	469.1	481.2	503.3	533.6	584.6	652.9
47.5°	414.1	414.6	415.2	417.5	422.8	430.3	438.2	456.2	483.3	524.1	590.6
50°	392.1	391.2	392.1	394.1	397.5	403.7	412.8	425.8	448.0	486.0	547.1
52.5°	371.0	370.8	370.2	371.0	373.5	377.9	384.4	395.4	415.2	450.2	504.0
55°	338.7	336.3	336.8	334.9	339.2	340.2	345.0	354.1	371.5	395.5	446.0
57.5°	304.3	302.4	300.2	299.6	299.3	301.9	305.8	312.9	326.2	347.3	388.3
60°	282.5	280.0	277.1	276.2	276.2	277.6	279.6	284.8	297.4	316.1	349.8
62.5°	260.1	257.3	255.6	253.1	252.3	253.7	255.7	259.5	268.4	286.1	315.2
65°	225.6	222.3	219.9	219.4	218.5	217.0	217.9	221.8	229.0	243.0	266.1
67.5°	191.1	187.9	187.4	184.5	183.2	183.4	183.2	186.5	190.9	202.8	220.1
70°	168.4	166.0	165.0	162.6	161.6	160.7	159.8	162.6	166.9	177.1	192.0
72.5°	145.3	143.3	141.2	139.1	139.3	138.4	138.2	139.9	143.5	152.8	164.3
75°	112.1	112.6	110.2	107.7	107.3	106.3	106.3	107.7	109.2	116.4	125.5
77.5°	81.3	81.0	78.9	78.1	77.7	76.6	77.7	78.6	79.4	84.2	91.0
80°	62.1	62.1	59.7	59.7	59.2	57.8	59.2	58.2	60.1	64.9	69.7
82.5°	44.4	43.5	43.5	42.7	42.6	41.6	42.2	43.2	44.0	47.2	50.1
85°	21.7	21.7	21.2	20.7	21.2	20.7	21.2	21.7	22.1	23.6	26.0
87.5°	14.4	15.0	13.9	12.9	11.6	10.6	9.9	9.5	9.5	9.1	8.8
90°	49.1	49.8	42.8	35.8	28.9	22.0	16.6	12.8	9.0	5.2	1.4
92.5°	45.3	45.1	43.5	41.9	40.2	38.6	36.4	33.6	30.8	28.1	25.3
95°	91.0	91.0	90.3	89.6	89.1	88.4	86.5	83.3	80.2	77.0	73.9
97.5°	152.9	152.9	151.7	150.5	149.3	148.1	146.1	143.4	140.5	137.8	135.0
100°	196.0	196.0	195.1	194.2	193.2	192.3	190.6	188.0	185.5	182.9	180.5
102.5°	243.0	242.7	241.5	240.3	239.1	237.9	236.3	234.2	232.2	230.3	228.2
105°	313.2	312.6	312.0	311.3	310.8	310.1	309.2	308.3	307.4	306.4	305.5
107.5°	389.8	389.6	389.6	389.6	389.6	389.6	388.9	387.6	386.2	384.7	383.3
110°	442.0	442.0	442.0	442.0	442.0	442.0	440.9	439.0	437.2	435.3	433.4



TEST NUMBER: P331550-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.6	495.3	495.6	495.9	496.1	496.3	495.5	493.6	491.7	489.8	488.0
115°	573.7	574.1	574.7	575.3	576.0	576.6	576.0	574.1	572.1	570.2	568.4
117.5°	651.2	652.0	653.7	655.4	657.2	659.0	658.6	656.1	653.6	651.0	648.6
120°	701.9	701.9	704.5	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9
122.5°	755.7	756.5	758.3	760.1	761.9	763.6	763.0	759.9	756.9	753.8	750.8
125°	834.5	835.5	836.5	837.4	838.4	839.3	838.4	835.5	832.6	829.8	827.0
127.5°	911.1	912.3	913.4	914.5	915.7	916.8	915.6	912.0	908.3	904.7	901.2
130°	962.8	963.4	964.0	964.7	965.3	965.9	964.2	960.1	956.0	951.9	947.7
132.5°	1014.3	1015.7	1015.6	1015.4	1015.3	1015.2	1013.4	1010.1	1006.7	1003.4	1000.0
135°	1088.2	1088.4	1087.8	1087.2	1086.6	1085.9	1083.8	1080.3	1076.9	1073.5	1070.0
137.5°	1159.8	1160.1	1159.2	1158.4	1157.6	1156.8	1154.9	1152.1	1149.2	1146.4	1143.6
140°	1207.8	1207.8	1206.3	1204.7	1203.1	1201.5	1199.3	1196.5	1193.6	1190.7	1187.9
142.5°	1251.2	1251.0	1249.9	1248.9	1247.7	1246.7	1244.7	1241.9	1239.1	1236.2	1233.4
145°	1317.5	1317.2	1315.3	1313.4	1311.5	1309.7	1307.6	1305.3	1303.2	1301.0	1298.7
147.5°	1375.4	1374.6	1373.4	1372.1	1370.8	1369.6	1367.6	1365.0	1362.3	1359.6	1357.0
150°	1411.9	1411.0	1409.8	1408.4	1407.2	1405.9	1404.4	1402.5	1400.6	1398.6	1396.8
152.5°	1448.6	1447.4	1445.9	1444.4	1442.8	1441.3	1439.6	1437.7	1435.8	1433.9	1432.0
155°	1495.0	1493.4	1492.4	1491.5	1490.5	1489.6	1488.7	1487.7	1486.8	1485.8	1484.9
157.5°	1537.6	1535.5	1534.9	1534.4	1533.8	1533.2	1532.6	1532.0	1531.3	1530.7	1530.0
160°	1563.5	1561.6	1561.3	1560.9	1560.7	1560.4	1559.9	1559.2	1558.6	1558.0	1557.4
162.5°	1586.5	1584.3	1584.0	1583.8	1583.4	1583.1	1582.9	1582.7	1582.6	1582.5	1582.3
165°	1616.4	1614.2	1614.2	1614.2	1614.2	1614.2	1614.4	1614.7	1615.0	1615.3	1615.6
167.5°	1641.2	1638.9	1639.0	1639.1	1639.1	1639.2	1639.6	1640.6	1641.5	1642.5	1643.4
170°	1654.7	1652.6	1652.8	1653.2	1653.5	1653.8	1654.4	1655.4	1656.3	1657.3	1658.2
172.5°	1665.0	1662.7	1663.1	1663.4	1663.8	1664.1	1664.7	1665.7	1666.6	1667.5	1668.5
175°	1676.1	1673.9	1674.5	1675.1	1675.7	1676.4	1677.2	1678.1	1679.0	1680.0	1680.9
177.5°	1681.9	1680.4	1680.9	1681.4	1681.9	1682.4	1683.1	1683.9	1684.6	1685.4	1686.1
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331550-830

CATALOG NUMBER: S122DIW-S675D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1258.5	1260.5	1266.6	1272.7	1279.7	1281.6	1284.7	1282.0	1281.2	1288.5	1293.9
5°	1262.1	1270.7	1287.6	1303.0	1316.0	1325.1	1334.7	1338.6	1345.8	1355.8	1368.4
7.5°	1258.0	1274.9	1301.4	1323.7	1348.2	1365.8	1379.6	1391.3	1405.5	1424.7	1445.6
10°	1253.4	1276.0	1308.2	1335.7	1365.5	1388.1	1406.9	1425.1	1446.3	1472.8	1500.2
12.5°	1244.9	1271.8	1312.1	1344.5	1382.8	1405.0	1430.4	1469.8	1492.5	1529.4	1568.0
15°	1227.9	1257.7	1314.0	1354.0	1397.2	1439.6	1486.3	1523.8	1561.3	1583.0	1637.4
17.5°	1202.6	1246.4	1308.7	1355.3	1410.3	1477.1	1529.5	1572.0	1615.3	1650.5	1677.7
20°	1182.2	1229.8	1301.0	1356.9	1422.3	1493.9	1554.2	1597.4	1634.9	1664.3	1681.1
22.5°	1156.4	1216.4	1285.6	1351.0	1434.6	1505.5	1568.8	1602.8	1634.2	1648.5	1655.0
25°	1115.8	1188.0	1266.4	1346.2	1440.6	1515.6	1573.4	1594.0	1603.2	1589.2	1566.1
27.5°	1072.0	1152.4	1244.2	1337.2	1436.9	1509.1	1550.5	1547.2	1531.7	1486.6	1450.5
30°	1039.2	1127.8	1226.4	1327.9	1428.0	1498.3	1522.4	1498.3	1463.2	1412.7	1361.2
32.5°	1005.0	1096.6	1207.6	1314.8	1411.9	1473.7	1478.8	1437.5	1383.1	1325.7	1261.5
35°	953.2	1052.3	1172.1	1285.6	1377.5	1416.5	1393.5	1320.3	1255.8	1177.4	1089.8
37.5°	894.6	1004.0	1124.2	1242.8	1326.1	1336.2	1278.9	1201.9	1111.0	1018.8	915.8
40°	850.6	966.7	1090.3	1210.1	1283.7	1273.1	1200.0	1115.3	1007.0	894.5	798.7
42.5°	811.4	927.4	1053.3	1170.8	1229.8	1200.8	1115.3	1011.3	895.0	789.0	701.3
45°	743.4	862.7	991.6	1105.2	1138.9	1086.5	973.4	857.9	743.4	654.9	585.6
47.5°	677.4	795.3	923.0	1022.8	1034.7	964.2	840.7	721.8	623.4	551.3	502.4
50°	628.9	747.2	873.7	962.8	958.9	873.7	746.8	633.7	551.4	493.1	460.4
52.5°	585.4	697.2	818.7	899.7	879.3	786.4	665.2	564.8	497.1	451.6	422.0
55°	517.7	621.1	736.6	801.6	764.0	661.1	558.6	477.8	427.7	393.6	370.5
57.5°	450.5	547.5	646.4	686.5	645.0	549.9	464.4	405.8	368.2	342.9	327.8
60°	409.0	493.7	581.7	616.3	566.8	482.1	414.7	362.3	332.0	311.3	297.8
62.5°	367.4	443.3	526.3	545.2	499.8	428.2	368.5	325.0	300.0	281.6	269.0
65°	310.9	372.9	435.9	448.5	406.6	351.3	304.1	275.7	253.5	240.1	230.0
67.5°	255.0	304.7	349.4	359.5	322.8	284.5	250.4	225.6	210.7	199.4	191.0
70°	221.8	261.3	297.8	306.0	276.6	242.5	216.5	196.8	183.3	173.7	165.5
72.5°	186.8	219.7	250.1	255.6	231.6	205.6	184.2	168.7	156.7	150.6	142.8
75°	142.9	162.1	185.7	187.2	171.3	155.4	139.0	128.9	122.7	115.0	111.1
77.5°	100.9	115.9	129.4	132.1	122.6	111.8	102.6	94.7	89.4	85.9	82.3
80°	77.0	89.0	94.8	98.1	91.4	83.7	78.4	73.1	69.7	67.4	64.9
82.5°	55.0	62.5	67.9	70.4	66.8	62.2	56.8	53.9	51.3	49.3	48.4
85°	27.9	31.3	34.7	35.6	34.7	32.7	29.8	29.8	28.4	27.9	27.9
87.5°	10.7	13.0	13.8	15.6	15.9	17.3	18.8	19.7	20.7	20.2	19.7
90°	5.2	9.0	12.8	16.6	22.0	28.9	35.8	42.8	49.8	49.1	48.4
92.5°	28.1	30.8	33.6	36.4	38.6	40.2	41.9	43.5	45.1	45.3	45.4
95°	77.0	80.2	83.3	86.5	88.4	89.1	89.6	90.3	91.0	91.0	91.0
97.5°	137.8	140.5	143.4	146.1	148.1	149.3	150.5	151.7	152.9	152.9	152.9
100°	182.9	185.5	188.0	190.6	192.3	193.2	194.2	195.1	196.0	196.0	196.0
102.5°	230.3	232.2	234.2	236.3	237.9	239.1	240.3	241.5	242.7	243.0	243.2
105°	306.4	307.4	308.3	309.2	310.1	310.8	311.3	312.0	312.6	313.2	313.9
107.5°	384.7	386.2	387.6	388.9	389.6	389.6	389.6	389.6	389.6	389.8	390.1
110°	435.3	437.2	439.0	440.9	442.0	442.0	442.0	442.0	442.0	442.0	442.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	489.8	491.7	493.6	495.5	496.3	496.1	495.9	495.6	495.3	494.6	493.8
115°	570.2	572.1	574.1	576.0	576.6	576.0	575.3	574.7	574.1	573.7	573.4
117.5°	651.0	653.6	656.1	658.6	659.0	657.2	655.4	653.7	652.0	651.2	650.4
120°	704.5	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9	701.9	701.9
122.5°	753.8	756.9	759.9	763.0	763.6	761.9	760.1	758.3	756.5	755.7	755.0
125°	829.8	832.6	835.5	838.4	839.3	838.4	837.4	836.5	835.5	834.5	833.6
127.5°	904.7	908.3	912.0	915.6	916.8	915.7	914.5	913.4	912.3	911.1	909.9
130°	951.9	956.0	960.1	964.2	965.9	965.3	964.7	964.0	963.4	962.8	962.1
132.5°	1003.4	1006.7	1010.1	1013.4	1015.2	1015.3	1015.4	1015.6	1015.7	1014.3	1013.0
135°	1073.5	1076.9	1080.3	1083.8	1085.9	1086.6	1087.2	1087.8	1088.4	1088.2	1087.8
137.5°	1146.4	1149.2	1152.1	1154.9	1156.8	1157.6	1158.4	1159.2	1160.1	1159.8	1159.5
140°	1190.7	1193.6	1196.5	1199.3	1201.5	1203.1	1204.7	1206.3	1207.8	1207.8	1207.8
142.5°	1236.2	1239.1	1241.9	1244.7	1246.7	1247.7	1248.9	1249.9	1251.0	1251.2	1251.5
145°	1301.0	1303.2	1305.3	1307.6	1309.7	1311.5	1313.4	1315.3	1317.2	1317.5	1317.9
147.5°	1359.6	1362.3	1365.0	1367.6	1369.6	1370.8	1372.1	1373.4	1374.6	1375.4	1376.0
150°	1398.6	1400.6	1402.5	1404.4	1405.9	1407.2	1408.4	1409.8	1411.0	1411.9	1412.9
152.5°	1433.9	1435.8	1437.7	1439.6	1441.3	1442.8	1444.4	1445.9	1447.4	1448.6	1449.7
155°	1485.8	1486.8	1487.7	1488.7	1489.6	1490.5	1491.5	1492.4	1493.4	1495.0	1496.6
157.5°	1530.7	1531.3	1532.0	1532.6	1533.2	1533.8	1534.4	1534.9	1535.5	1537.6	1539.7
160°	1558.0	1558.6	1559.2	1559.9	1560.4	1560.7	1560.9	1561.3	1561.6	1563.5	1565.4
162.5°	1582.5	1582.6	1582.7	1582.9	1583.1	1583.4	1583.8	1584.0	1584.3	1586.5	1588.7
165°	1615.3	1615.0	1614.7	1614.4	1614.2	1614.2	1614.2	1614.2	1614.2	1616.4	1618.6
167.5°	1642.5	1641.5	1640.6	1639.6	1639.2	1639.1	1639.1	1639.0	1638.9	1641.2	1643.3
170°	1657.3	1656.3	1655.4	1654.4	1653.8	1653.5	1653.2	1652.8	1652.6	1654.7	1657.0
172.5°	1667.5	1666.6	1665.7	1664.7	1664.1	1663.8	1663.4	1663.1	1662.7	1665.0	1667.2
175°	1680.0	1679.0	1678.1	1677.2	1676.4	1675.7	1675.1	1674.5	1673.9	1676.1	1678.3
177.5°	1685.4	1684.6	1683.9	1683.1	1682.4	1681.9	1681.4	1680.9	1680.4	1681.9	1683.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1298.5	1303.9	1303.9	1304.7	1310.9	1310.0	1309.7
5°	1381.9	1390.1	1391.0	1399.7	1405.4	1403.5	1398.3
7.5°	1460.5	1475.7	1487.2	1493.6	1501.3	1506.0	1503.9
10°	1522.9	1545.0	1558.5	1567.6	1578.7	1586.9	1583.9
12.5°	1579.4	1605.8	1624.3	1639.9	1641.4	1651.9	1644.7
15°	1667.6	1695.5	1698.5	1710.1	1719.2	1718.2	1718.6
17.5°	1696.9	1705.8	1707.6	1707.9	1708.0	1704.6	1697.3
20°	1686.4	1683.1	1674.9	1668.7	1657.6	1656.1	1646.5
22.5°	1637.2	1626.5	1606.0	1592.4	1575.2	1570.7	1568.0
25°	1540.2	1516.6	1483.8	1452.6	1444.0	1427.1	1431.9
27.5°	1407.1	1370.4	1334.9	1309.5	1286.5	1261.3	1268.5
30°	1313.5	1272.1	1222.1	1183.6	1159.1	1135.0	1130.7
32.5°	1201.9	1141.3	1085.4	1051.6	1014.0	998.8	982.1
35°	1009.5	950.3	894.9	847.3	819.9	798.7	779.5
37.5°	836.3	768.2	723.6	684.9	665.2	653.0	656.1
40°	729.0	669.3	636.6	607.2	588.9	580.2	582.2
42.5°	642.0	597.3	570.3	550.3	537.3	532.5	531.4
45°	543.2	518.2	496.1	484.6	478.2	473.0	469.6
47.5°	475.9	455.4	443.0	436.1	430.6	425.3	425.2
50°	435.5	422.0	413.3	406.0	401.8	397.9	401.2
52.5°	404.6	392.3	383.7	377.2	375.6	372.1	372.0
55°	358.9	349.3	343.1	337.2	334.4	332.4	330.1
57.5°	317.4	308.2	302.5	298.8	293.3	291.3	290.6
60°	287.8	280.5	274.8	269.9	267.5	263.6	263.6
62.5°	260.4	253.2	247.8	244.1	240.2	238.7	239.0
65°	220.8	215.1	209.8	205.9	205.0	202.1	203.0
67.5°	184.5	180.6	175.0	173.0	171.1	169.6	168.4
70°	160.2	156.4	153.4	150.6	149.1	149.1	149.1
72.5°	139.8	135.2	133.5	129.8	130.6	129.1	127.6
75°	108.3	105.4	104.0	102.5	100.1	100.1	100.1
77.5°	79.6	78.8	77.1	75.5	74.9	74.5	74.6
80°	61.5	61.1	60.1	60.1	59.2	58.7	57.8
82.5°	47.3	46.1	45.5	45.1	45.0	44.9	44.7
85°	27.0	26.0	26.0	26.5	25.5	25.5	26.0
87.5°	20.0	19.8	19.4	19.5	19.9	19.6	19.7
90°	47.9	47.2	47.0	47.4	47.7	48.0	48.4
92.5°	45.5	45.7	45.8	45.8	45.9	46.0	46.0
95°	91.0	91.0	90.6	90.0	89.4	88.7	88.1
97.5°	152.9	152.9	152.9	152.8	152.7	152.7	152.6
100°	196.0	196.0	196.0	195.6	195.3	195.0	194.6
102.5°	243.5	243.7	243.6	243.4	243.1	242.7	242.4
105°	314.5	315.1	315.5	315.5	315.5	315.5	315.5
107.5°	390.4	390.6	390.0	388.6	387.1	385.7	384.2
110°	442.0	442.0	441.4	440.5	439.5	438.6	437.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	493.0	492.3	491.5	490.9	490.2	489.5	488.8
115°	573.1	572.8	572.1	571.2	570.2	569.3	568.4
117.5°	649.7	648.9	648.0	647.1	646.1	645.2	644.2
120°	701.9	701.9	701.4	700.5	699.6	698.6	697.7
122.5°	754.2	753.5	752.7	752.1	751.4	750.6	750.0
125°	832.6	831.7	831.1	830.8	830.5	830.2	829.8
127.5°	908.8	907.7	906.6	905.6	904.6	903.6	902.6
130°	961.5	960.8	959.9	958.7	957.4	956.1	954.9
132.5°	1011.5	1010.1	1008.9	1008.0	1006.9	1005.9	1004.8
135°	1087.5	1087.2	1086.6	1085.6	1084.7	1083.7	1082.8
137.5°	1159.3	1159.0	1158.3	1157.1	1155.7	1154.5	1153.2
140°	1207.8	1207.8	1207.2	1205.9	1204.7	1203.3	1202.1
142.5°	1251.8	1252.0	1251.5	1250.3	1249.0	1247.7	1246.4
145°	1318.1	1318.4	1318.0	1316.7	1315.5	1314.2	1313.0
147.5°	1376.7	1377.4	1377.1	1375.9	1374.7	1373.6	1372.3
150°	1413.8	1414.8	1414.8	1413.8	1412.9	1411.9	1411.0
152.5°	1451.0	1452.2	1452.2	1451.0	1449.7	1448.6	1447.4
155°	1498.2	1499.7	1500.1	1499.1	1498.2	1497.2	1496.3
157.5°	1541.9	1544.1	1544.4	1542.8	1541.3	1539.8	1538.3
160°	1567.3	1569.1	1569.5	1568.2	1567.0	1565.8	1564.4
162.5°	1590.8	1592.9	1593.3	1591.8	1590.3	1588.7	1587.1
165°	1620.8	1623.1	1623.3	1621.7	1620.2	1618.6	1617.0
167.5°	1645.6	1647.8	1648.0	1646.4	1644.7	1643.1	1641.4
170°	1659.2	1661.4	1661.5	1659.6	1657.7	1655.9	1654.0
172.5°	1669.4	1671.6	1671.8	1669.9	1668.0	1666.1	1664.2
175°	1680.5	1682.7	1682.9	1680.9	1679.0	1677.2	1675.3
177.5°	1685.0	1686.5	1686.5	1685.0	1683.5	1681.9	1680.4
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9

(END OF REPORT)