

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: P332174-940

Luminaire Tested: **S123DIW-S775D1535U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332174-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S775D1535U940-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8385.1 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

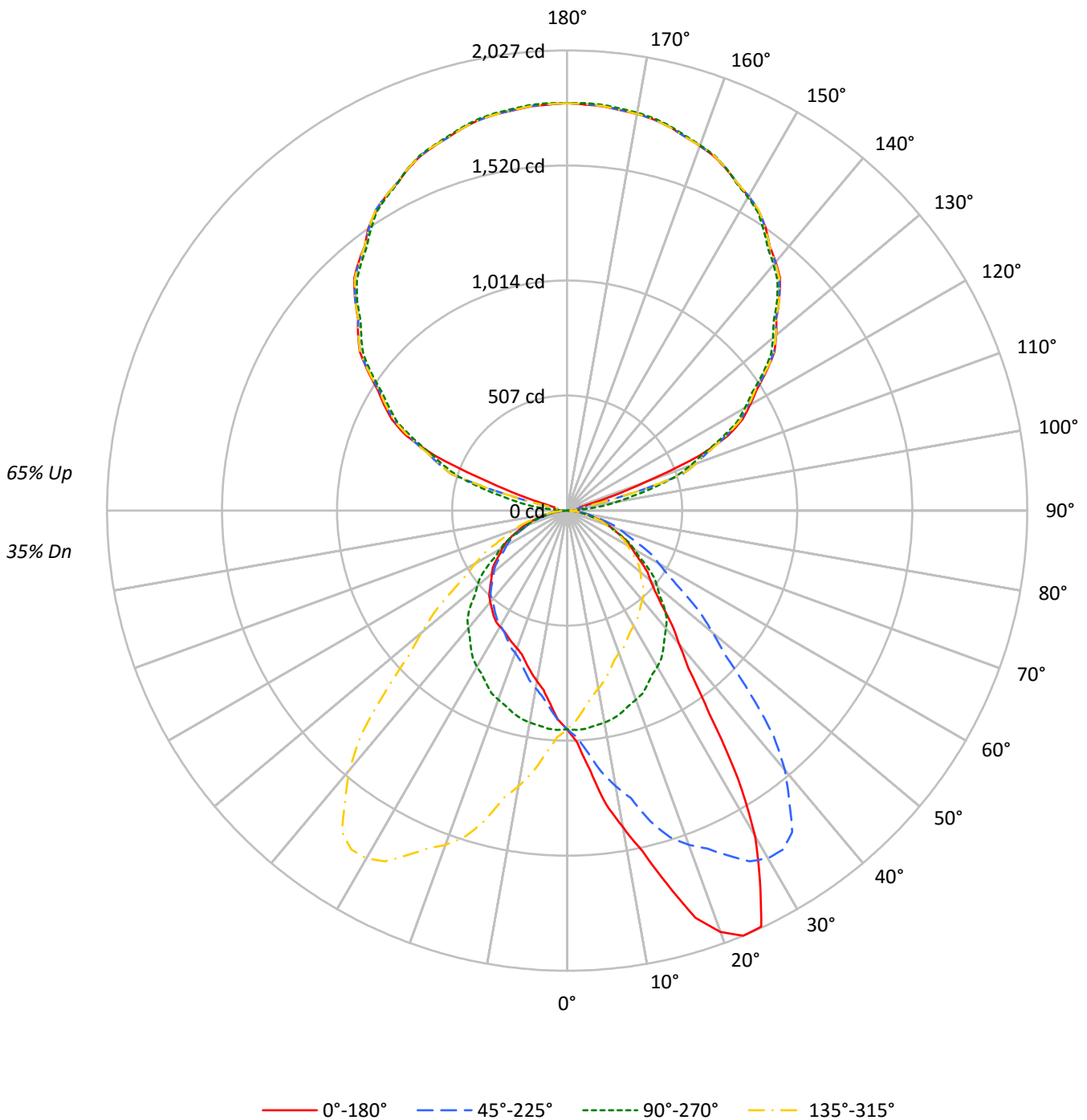
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	21
4	72	62	54	48	65	56	49	44	45	41	37	36	32	30	26	24	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	31	28	29	25	22	22	19	17	14
7	56	44	37	31	51	40	34	29	33	28	24	26	23	20	20	17	15	13
8	52	40	33	27	47	37	30	25	30	25	22	24	20	18	18	16	14	11
9	48	37	29	24	44	33	27	23	28	23	19	22	18	16	17	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	10371	10371	10371	10371
5°	12369	10416	9231	10416
10°	15481	10364	8337	10364
15°	18988	10280	7762	10280
20°	22620	10149	7391	10149
25°	24018	9991	7308	9991
30°	20586	9875	7346	9875
35°	14318	9711	7423	9711
40°	10784	9517	7399	9517
45°	8954	9232	7305	9232
50°	8020	8646	7239	8646
55°	7499	8015	7148	8015
60°	7035	7356	7076	7356
65°	6612	6706	6849	6706
70°	6200	5964	6521	5964
75°	5552	5224	5976	5224
80°	4866	4283	5151	4283
85°	3816	3112	3458	3112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	1.1
10°-20°	304.3	3.6
20°-30°	510.8	6.1
30°-40°	578.4	6.9
40°-50°	518.7	6.2
50°-60°	418.6	5.0
60°-70°	291.7	3.5
70°-80°	153.3	1.8
80°-90°	42.5	0.5
90°-100°	65.2	0.8
100°-110°	310.9	3.7
110°-120°	746.8	8.9
120°-130°	951.0	11.3
130°-140°	1016.1	12.1
140°-150°	950.2	11.3
150°-160°	766.5	9.1
160°-170°	494.7	5.9
170°-180°	170.5	2.0
0°-30°	910.1	10.9
0°-40°	1488.4	17.8
0°-60°	2425.7	28.9
0°-90°	2913.2	34.7
90°-120°	1123.0	13.4
90°-150°	4040.3	48.2
90°-180°	5472.0	65.3
0°-180°	8385.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	964	964	964	964	964	
5°	1145	964	854	964	1145	119
15°	1704	922	696	922	1704	492
25°	2022	841	615	841	2022	887
35°	1090	739	565	739	1090	708
45°	588	606	480	606	588	465
55°	400	427	381	427	400	359
65°	260	263	269	263	260	259
75°	134	126	144	126	134	143
85°	31	25	28	25	31	38
90°	40	1	40	1	40	20
95°	51	81	51	81	51	42
105°	59	397	59	397	59	134
115°	784	745	784	745	784	724
125°	1072	1050	1072	1050	1072	957
135°	1321	1308	1321	1308	1321	1019
145°	1524	1509	1524	1509	1524	951
155°	1660	1662	1660	1662	1660	765
165°	1749	1753	1749	1753	1749	494
175°	1788	1794	1788	1794	1788	170
180°	1794	1794	1794	1794	1794	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	1022.5	1021.8	1019.9	1021.5	1018.4	1014.3	1014.0	1010.2	999.3	998.6	995.7
5°	1144.7	1140.9	1140.5	1140.0	1133.5	1124.6	1107.8	1106.3	1084.0	1072.7	1059.3
7.5°	1302.8	1304.8	1298.0	1292.0	1272.0	1258.8	1240.8	1217.7	1190.3	1162.3	1143.7
10°	1416.4	1431.7	1412.6	1399.5	1387.4	1364.5	1337.9	1304.8	1271.7	1232.9	1203.5
12.5°	1538.1	1545.7	1541.9	1529.6	1510.6	1475.9	1428.7	1392.1	1361.6	1297.1	1271.0
15°	1703.9	1732.4	1714.2	1672.1	1673.1	1639.9	1578.3	1510.6	1474.7	1418.2	1341.2
17.5°	1880.5	1884.1	1876.3	1841.4	1818.0	1772.5	1715.6	1650.7	1577.9	1509.5	1427.8
20°	1974.7	1971.8	1955.5	1937.3	1897.2	1861.7	1799.7	1727.2	1633.9	1566.6	1477.5
22.5°	2026.9	2022.3	2014.6	1999.3	1965.9	1927.8	1872.1	1793.0	1704.1	1611.5	1508.5
25°	2022.3	2028.4	2029.3	2025.1	2013.4	1990.6	1946.7	1883.6	1794.9	1675.9	1568.5
27.5°	1839.3	1847.9	1872.9	1895.0	1919.7	1944.9	1941.5	1910.2	1844.6	1741.9	1610.5
30°	1656.3	1637.6	1683.8	1742.2	1781.9	1851.9	1891.1	1893.5	1856.5	1768.4	1640.4
32.5°	1402.3	1422.9	1443.3	1515.1	1601.9	1680.5	1758.5	1821.4	1828.5	1769.9	1658.0
35°	1089.6	1115.3	1152.6	1189.9	1283.4	1363.6	1500.8	1620.3	1715.6	1728.2	1659.6
37.5°	878.0	890.7	914.4	951.7	1012.8	1108.0	1214.2	1365.3	1503.2	1605.9	1610.3
40°	767.5	771.2	797.8	826.3	875.7	954.2	1049.9	1183.4	1348.6	1492.0	1551.8
42.5°	684.6	692.8	704.1	731.4	770.8	829.8	918.8	1029.1	1180.6	1345.6	1462.5
45°	588.2	597.5	604.6	622.8	650.8	690.5	752.5	853.4	968.7	1139.1	1296.4
47.5°	524.5	525.3	530.5	544.2	563.3	593.1	636.9	701.8	807.6	945.7	1107.3
50°	478.9	486.4	488.3	499.0	514.0	535.9	572.3	627.4	714.3	835.6	984.1
52.5°	446.8	449.1	454.3	462.1	475.1	492.2	523.8	566.9	635.1	738.5	875.0
55°	399.6	399.6	404.7	410.8	418.3	433.6	454.7	486.4	538.2	618.6	731.6
57.5°	355.9	358.2	361.9	363.7	370.1	380.3	397.8	422.0	460.6	522.4	612.2
60°	326.8	331.0	330.6	334.2	339.8	347.8	362.7	382.4	416.9	466.4	542.0
62.5°	301.4	301.1	301.0	305.5	311.1	318.7	328.3	345.4	374.7	418.6	483.0
65°	259.6	258.6	261.9	264.7	266.5	272.2	279.6	294.5	314.1	346.9	396.8
67.5°	222.4	219.7	221.5	222.4	225.6	230.0	236.9	246.2	261.8	288.0	325.7
70°	197.0	194.7	194.2	195.1	198.0	201.2	206.3	215.2	229.7	250.7	278.2
72.5°	170.9	169.2	169.2	171.2	172.5	174.7	178.3	186.5	198.0	213.7	239.4
75°	133.5	133.5	133.5	133.9	135.4	137.2	140.1	144.3	153.1	164.3	181.6
77.5°	100.0	100.0	99.4	99.3	101.4	102.3	102.9	106.8	111.7	119.3	131.9
80°	78.5	76.1	77.0	78.5	79.4	79.8	81.2	82.1	86.4	90.6	99.4
82.5°	58.2	56.3	56.4	58.7	58.9	59.3	60.7	62.0	63.6	67.4	72.1
85°	30.9	30.9	31.3	31.3	31.7	31.3	32.6	33.2	33.2	35.5	38.3
87.5°	19.2	18.4	18.5	18.8	18.4	18.5	18.7	18.8	19.0	19.1	18.7
90°	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3	33.2	32.0	28.2
92.5°	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9	36.0	34.2	31.2
95°	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5	43.4	41.3	38.1
97.5°	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7	45.3	42.9	64.3
100°	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7	46.4	44.0	90.2
102.5°	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0	80.3	87.7	138.2
105°	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1	239.5	291.9	318.6
107.5°	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2	496.7	535.1	530.9
110°	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7	591.5	601.2	598.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8	668.6	668.4	665.1
115°	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2	768.1	765.2	762.5
117.5°	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8	861.4	859.1	857.6
120°	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6	922.2	919.8	918.9
122.5°	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9	982.3	980.6	979.5
125°	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6	1067.1	1066.5	1065.3
127.5°	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6	1150.6	1149.7	1148.3
130°	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1	1201.0	1199.8	1198.6
132.5°	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2	1248.9	1247.8	1246.8
135°	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1	1319.9
137.5°	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7	1386.3	1384.8	1384.2
140°	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8	1427.6	1426.4	1425.5
142.5°	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8	1466.8	1465.9	1465.0
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2	1521.6	1521.1	1520.5
147.5°	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0	1570.5	1569.9	1569.2
150°	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9	1600.3	1599.7	1599.1
152.5°	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5	1626.4	1625.3	1625.0
155°	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0	1662.5	1661.0	1660.7
157.5°	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8	1694.0	1692.2	1692.6
160°	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0	1712.2	1710.4	1710.7
162.5°	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4	1728.4	1726.4	1726.6
165°	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4	1750.1	1747.7	1748.0
167.5°	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8	1764.8
170°	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3	1774.3
172.5°	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5	1783.2	1780.7	1780.5
175°	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1	1791.1	1789.0	1788.7
177.5°	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0	1794.1	1792.2	1792.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	993.4	990.4	987.4	982.2	977.8	971.3	969.5	967.2	960.6	954.6	950.1
5°	1054.1	1042.9	1026.5	1011.6	999.5	983.1	973.8	964.0	950.0	937.4	927.1
7.5°	1117.6	1095.6	1070.1	1042.7	1017.1	992.5	972.6	954.8	935.2	916.7	902.2
10°	1168.0	1136.2	1100.8	1062.5	1029.8	998.1	971.4	948.2	922.9	901.0	882.8
12.5°	1225.5	1178.5	1129.5	1083.1	1044.4	1000.3	968.1	938.4	909.8	883.4	863.0
15°	1293.6	1233.9	1175.9	1112.0	1053.2	998.1	959.8	922.5	889.3	862.2	836.1
17.5°	1355.6	1287.9	1211.6	1133.8	1062.8	997.6	944.0	901.7	860.2	827.2	801.1
20°	1390.7	1313.7	1227.3	1146.6	1068.1	995.2	936.5	886.0	841.2	806.2	776.8
22.5°	1420.9	1330.8	1241.4	1155.1	1067.7	989.3	922.7	870.8	822.2	787.9	756.6
25°	1452.3	1344.4	1254.8	1153.5	1056.0	974.7	900.0	841.2	792.6	752.5	720.3
27.5°	1479.2	1343.5	1237.2	1128.2	1037.5	956.1	876.3	813.2	761.7	718.1	685.4
30°	1497.1	1345.4	1218.9	1111.1	1019.6	935.5	858.0	794.5	740.4	696.1	665.2
32.5°	1508.3	1344.3	1202.1	1087.2	991.1	916.9	838.2	772.5	716.8	673.2	643.5
35°	1514.8	1336.1	1173.1	1037.8	945.3	873.0	807.2	739.0	680.6	640.0	606.5
37.5°	1501.8	1318.8	1139.5	990.2	888.9	817.7	762.3	704.3	648.5	603.7	574.8
40°	1481.2	1307.6	1113.4	956.5	850.1	781.5	734.3	677.3	622.2	579.8	552.7
42.5°	1442.0	1284.8	1084.6	919.2	809.8	741.1	697.8	650.1	598.0	558.1	531.1
45°	1346.3	1235.2	1041.5	863.2	750.2	679.2	641.0	606.5	559.3	520.5	497.1
47.5°	1213.5	1160.7	979.1	804.1	688.0	619.7	580.0	552.1	517.7	486.4	464.0
50°	1121.3	1099.4	936.9	763.8	646.6	579.8	541.5	516.3	491.6	460.3	439.8
52.5°	1014.9	1028.4	887.6	721.9	604.3	538.7	502.7	482.7	460.2	434.5	416.6
55°	865.0	914.0	802.5	651.7	541.5	478.9	444.9	427.1	414.1	394.9	379.5
57.5°	724.7	787.1	710.4	579.3	479.8	425.9	393.2	373.8	365.4	355.4	343.3
60°	641.4	703.0	644.7	530.7	438.4	387.0	358.0	341.7	333.3	326.3	316.0
62.5°	567.1	629.5	580.4	481.5	397.6	350.0	324.9	308.9	302.3	298.6	289.9
65°	464.9	518.6	486.0	404.7	339.4	297.4	274.5	263.3	257.3	255.8	250.2
67.5°	378.4	419.3	395.5	335.7	284.3	248.0	228.5	219.0	214.4	213.9	209.7
70°	321.6	359.9	341.7	287.6	243.3	214.7	198.0	189.5	186.7	186.3	184.0
72.5°	277.6	304.3	289.8	244.6	210.4	184.5	172.2	163.4	160.2	160.9	159.3
75°	205.4	225.5	217.0	185.8	158.3	141.4	131.2	125.6	122.8	124.2	122.3
77.5°	147.8	160.5	152.9	131.3	114.3	102.1	94.6	91.1	88.6	88.5	87.7
80°	111.6	119.0	114.9	101.7	87.7	77.5	71.4	69.1	67.7	67.2	66.8
82.5°	79.5	85.8	80.9	71.9	62.3	56.2	52.8	49.7	48.7	49.0	48.4
85°	40.1	42.4	40.6	35.0	31.3	28.4	26.6	25.2	24.3	24.7	23.8
87.5°	18.6	18.3	16.4	14.2	12.8	11.1	10.6	9.3	9.1	9.6	9.9
90°	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3	4.3	7.2	10.3
92.5°	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8	24.0	23.1	22.3
95°	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3	69.2	57.1	44.9
97.5°	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5	158.0	152.6	147.0
100°	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3	231.2	237.1	243.1
102.5°	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7	300.0	304.3	308.4
105°	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3	400.6	403.8	407.1
107.5°	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4	507.0	509.6	512.3
110°	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9	578.3	580.6	583.0





TEST NUMBER: P332174-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2	646.3	648.5	650.6
115°	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2	747.0	748.8	750.6
117.5°	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0	845.3	847.4	849.6
120°	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8	906.5	909.2	911.9
122.5°	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7	967.9	970.1	972.2
125°	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4	1052.8	1055.3	1057.6
127.5°	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6	1135.0	1137.4	1139.7
130°	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7	1186.2	1188.6	1190.9
132.5°	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9	1235.2	1237.6	1239.9
135°	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8	1309.6	1311.3	1313.1
137.5°	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7	1374.0	1376.3	1378.5
140°	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4	1416.2	1418.0	1419.8
142.5°	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8	1455.6	1457.4	1459.2
145°	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0	1511.1	1513.2	1515.3
147.5°	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0	1562.5	1563.8	1565.1
150°	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0	1593.9	1594.8	1595.7
152.5°	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8	1622.3	1622.6	1623.1
155°	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3	1661.8	1661.2	1660.6
157.5°	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8	1693.8	1693.7	1693.6
160°	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1	1712.7	1712.4	1712.2
162.5°	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2	1730.4	1729.7	1728.8
165°	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0	1752.1	1751.2	1750.3
167.5°	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0	1768.9	1767.7	1766.6
170°	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7	1778.5	1777.3	1776.1
172.5°	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1	1784.7	1783.2	1781.8
175°	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3	1792.9	1791.4	1789.9
177.5°	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4	1795.3	1794.1	1793.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332174-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	947.4	944.9	941.1	935.5	931.0	923.9	923.9	925.1	925.1	924.7	923.9
5°	918.7	911.7	903.3	893.5	883.2	873.0	871.1	867.4	864.6	862.7	860.3
7.5°	888.4	875.9	863.7	850.0	837.5	827.2	819.9	814.0	810.1	806.0	803.1
10°	867.8	852.4	837.9	823.5	807.6	795.0	787.1	781.5	777.3	773.6	771.7
12.5°	843.6	825.9	809.9	796.2	778.8	765.9	758.3	755.7	750.7	742.9	738.8
15°	808.1	791.8	772.6	751.6	743.2	727.3	718.5	714.3	711.4	705.3	703.5
17.5°	777.8	756.3	734.9	719.2	703.6	690.7	685.7	680.6	676.8	671.8	670.4
20°	753.5	734.3	714.7	697.9	681.5	667.5	663.3	659.6	655.9	653.5	651.7
22.5°	728.8	709.7	693.4	677.7	660.3	651.1	646.6	642.5	639.8	638.3	636.4
25°	694.2	677.3	659.2	645.2	631.2	625.1	622.2	619.9	618.0	615.7	615.3
27.5°	663.2	644.9	630.1	617.1	607.0	601.9	599.2	598.1	598.5	599.3	599.9
30°	640.0	623.2	611.1	599.9	590.6	585.9	585.4	585.4	587.3	587.7	588.7
32.5°	618.8	604.9	592.8	581.9	574.9	571.7	573.5	573.5	575.0	576.1	577.8
35°	587.7	575.6	566.2	557.0	550.9	552.2	553.2	554.1	556.4	559.3	561.2
37.5°	558.1	547.6	537.9	530.6	527.8	530.3	532.5	534.5	537.3	539.4	541.3
40°	536.8	528.9	519.6	513.0	514.0	515.4	517.3	519.6	521.9	523.3	525.2
42.5°	517.0	508.7	501.7	496.2	497.6	499.4	500.4	501.7	504.4	506.8	508.0
45°	486.9	480.4	473.9	470.6	471.5	472.4	473.3	474.7	477.1	478.9	479.5
47.5°	453.0	448.4	444.1	440.9	442.4	442.0	443.2	446.2	446.9	448.1	450.7
50°	431.3	427.1	422.0	421.1	421.1	421.1	421.5	425.3	425.3	427.1	429.0
52.5°	407.4	404.7	401.4	399.8	399.0	399.0	401.0	402.9	403.6	406.3	408.1
55°	372.0	369.3	366.5	365.1	364.1	365.1	368.8	369.7	372.0	373.4	374.9
57.5°	335.2	333.1	330.8	330.0	329.8	331.1	333.1	335.9	336.5	340.8	343.0
60°	310.9	307.6	305.8	305.8	304.9	309.1	308.1	312.8	313.7	316.5	319.8
62.5°	285.9	281.5	280.7	280.7	282.0	283.3	284.5	286.6	289.1	292.6	295.2
65°	245.6	243.3	246.5	246.0	245.0	247.9	247.9	250.2	253.0	256.3	261.4
67.5°	207.3	206.2	206.4	206.4	207.9	209.5	210.7	212.8	216.2	219.6	222.9
70°	181.6	183.0	180.7	182.5	184.0	184.4	185.3	188.2	191.9	194.2	198.0
72.5°	156.6	156.5	156.8	157.5	158.9	159.7	160.7	163.9	168.0	170.0	172.9
75°	120.5	119.9	121.4	121.4	123.7	124.7	125.6	127.0	130.7	133.5	135.8
77.5°	87.9	88.5	88.2	89.8	89.2	89.3	92.2	93.6	94.0	99.5	100.8
80°	66.3	67.2	67.7	68.1	68.7	67.7	71.0	72.3	72.3	75.6	77.9
82.5°	47.6	48.2	49.4	49.8	49.9	50.9	51.2	52.2	53.3	54.8	57.8
85°	23.8	25.2	25.7	25.2	25.7	24.7	26.1	26.6	27.1	27.1	27.1
87.5°	10.1	11.1	11.6	12.7	13.1	14.3	14.4	14.0	14.2	15.6	14.3
90°	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3	35.6	36.7	37.6
92.5°	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9	39.9	41.7	42.8
95°	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5	47.5	49.6	50.6
97.5°	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7	50.0	52.4	53.8
100°	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7	51.1	53.5	54.8
102.5°	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0	65.7	58.3	54.9
105°	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1	134.6	82.2	56.3
107.5°	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2	419.7	381.3	342.3
110°	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7	571.9	562.1	536.0



TEST NUMBER: P332174-940

CATALOG NUMBER: S123DIW-S775D1535U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8	669.0	669.1	664.8
115°	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2	774.1	777.0	779.1
117.5°	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8	866.1	868.5	869.9
120°	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6	926.9	929.3	930.5
122.5°	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9	985.6	987.3	988.2
125°	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6	1068.3	1068.8	1069.4
127.5°	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6	1152.5	1153.4	1153.6
130°	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1	1203.4	1204.5	1204.8
132.5°	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2	1251.3	1252.5	1252.7
135°	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6
137.5°	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7	1389.1	1390.5	1390.9
140°	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8	1429.9	1431.1	1431.5
142.5°	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8	1468.7	1469.6	1469.7
145°	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2	1522.9	1523.4	1523.8
147.5°	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0	1571.6	1572.3	1571.8
150°	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9	1601.5	1602.0	1602.0
152.5°	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5	1628.5	1629.6	1629.4
155°	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0	1665.4	1667.0	1666.8
157.5°	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8	1697.5	1699.3	1699.1
160°	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0	1715.7	1717.4	1717.3
162.5°	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4	1732.4	1734.4	1734.5
165°	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4	1754.8	1757.2	1757.3
167.5°	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2
170°	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9
172.5°	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5	1787.9	1790.2	1790.1
175°	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1	1795.2	1797.3	1797.2
177.5°	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0	1797.9	1799.8	1799.6
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332174-940

CATALOG NUMBER: S123DIW-S775D1535U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	921.3	921.0	923.5	921.7	923.5	921.0	921.3	923.9	924.7	925.1	925.1
5°	857.6	859.0	854.3	854.3	854.3	859.0	857.6	860.3	862.7	864.6	867.4
7.5°	800.8	798.7	798.9	796.4	798.9	798.7	800.8	803.1	806.0	810.1	814.0
10°	766.1	763.3	762.3	762.8	762.3	763.3	766.1	771.7	773.6	777.3	781.5
12.5°	737.3	736.7	730.6	730.7	730.6	736.7	737.3	738.8	742.9	750.7	755.7
15°	703.5	694.6	693.7	696.5	693.7	694.6	703.5	703.5	705.3	711.4	714.3
17.5°	669.6	664.9	665.2	663.8	665.2	664.9	669.6	670.4	671.8	676.8	680.6
20°	651.7	648.9	648.5	645.2	648.5	648.9	651.7	651.7	653.5	655.9	659.6
22.5°	635.3	634.4	634.6	631.0	634.6	634.4	635.3	636.4	638.3	639.8	642.5
25°	614.8	617.2	615.3	615.3	615.3	617.2	614.8	615.3	615.7	618.0	619.9
27.5°	601.0	600.9	599.9	599.9	599.9	600.9	601.0	599.9	599.3	598.5	598.1
30°	590.6	590.0	591.0	591.0	591.0	590.0	590.6	588.7	587.7	587.3	585.4
32.5°	580.1	580.8	580.9	581.3	580.9	580.8	580.1	577.8	576.1	575.0	573.5
35°	563.9	564.4	565.8	564.9	565.8	564.4	563.9	561.2	559.3	556.4	554.1
37.5°	542.1	544.2	543.8	544.5	543.8	544.2	542.1	541.3	539.4	537.3	534.5
40°	525.7	527.1	526.6	526.6	526.6	527.1	525.7	525.2	523.3	521.9	519.6
42.5°	508.8	509.9	508.6	507.9	508.6	509.9	508.8	508.0	506.8	504.4	501.7
45°	481.3	480.4	481.8	479.9	481.8	480.4	481.3	479.5	478.9	477.1	474.7
47.5°	450.5	451.4	451.8	453.2	451.8	451.4	450.5	450.7	448.1	446.9	446.2
50°	430.0	432.7	432.7	432.3	432.7	432.7	430.0	429.0	427.1	425.3	425.3
52.5°	409.7	411.1	413.0	412.9	413.0	411.1	409.7	408.1	406.3	403.6	402.9
55°	378.6	379.5	380.5	380.9	380.5	379.5	378.6	374.9	373.4	372.0	369.7
57.5°	346.3	345.9	348.1	348.8	348.1	345.9	346.3	343.0	340.8	336.5	335.9
60°	323.5	323.5	327.3	328.7	327.3	323.5	323.5	319.8	316.5	313.7	312.8
62.5°	299.3	300.8	304.4	302.5	304.4	300.8	299.3	295.2	292.6	289.1	286.6
65°	263.8	267.5	267.1	268.9	267.1	267.5	263.8	261.4	256.3	253.0	250.2
67.5°	226.7	229.0	232.4	232.6	232.4	229.0	226.7	222.9	219.6	216.2	212.8
70°	201.7	204.0	205.9	207.2	205.9	204.0	201.7	198.0	194.2	191.9	188.2
72.5°	177.4	178.6	183.1	181.1	183.1	178.6	177.4	172.9	170.0	168.0	163.9
75°	139.1	142.4	145.2	143.7	145.2	142.4	139.1	135.8	133.5	130.7	127.0
77.5°	102.9	106.1	107.5	106.3	107.5	106.1	102.9	100.8	99.5	94.0	93.6
80°	81.2	80.8	83.6	83.1	83.6	80.8	81.2	77.9	75.6	72.3	72.3
82.5°	59.6	59.1	60.4	60.7	60.4	59.1	59.6	57.8	54.8	53.3	52.2
85°	29.0	30.3	28.4	28.0	28.4	30.3	29.0	27.1	27.1	27.1	26.6
87.5°	14.4	14.4	14.3	14.0	14.3	14.4	14.4	14.3	15.6	14.2	14.0
90°	38.3	38.8	39.4	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3
92.5°	43.2	43.5	43.9	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9
95°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5
97.5°	54.0	54.3	54.7	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7
100°	55.1	55.4	55.7	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7
102.5°	55.5	56.0	56.5	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0
105°	56.9	57.5	58.1	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1
107.5°	302.8	263.2	223.7	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2
110°	493.7	451.3	408.9	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	655.8	646.8	637.9	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8
115°	780.3	781.5	782.7	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2
117.5°	870.0	870.3	870.6	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8
120°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6
122.5°	988.5	988.6	988.9	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9
125°	1070.1	1070.6	1071.2	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6
127.5°	1153.1	1152.4	1151.8	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6
130°	1204.3	1203.6	1203.0	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1
132.5°	1251.9	1251.1	1250.2	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2
135°	1323.7	1322.9	1322.0	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9
137.5°	1390.4	1389.7	1389.1	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7
140°	1430.8	1430.3	1429.7	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8
142.5°	1468.9	1468.0	1467.2	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2
147.5°	1570.5	1569.1	1567.7	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0
150°	1601.1	1600.2	1599.3	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9
152.5°	1628.1	1626.7	1625.3	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5
155°	1665.0	1663.2	1661.4	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0
157.5°	1696.7	1694.4	1692.1	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8
160°	1715.2	1713.2	1711.1	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0
162.5°	1732.7	1730.8	1729.0	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4
165°	1755.2	1753.2	1751.1	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4
167.5°	1771.8	1769.5	1767.1	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5
170°	1781.5	1779.1	1776.7	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1
172.5°	1787.5	1784.9	1782.3	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5
175°	1794.7	1792.4	1790.0	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1
177.5°	1797.2	1794.8	1792.4	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	923.9	923.9	931.0	935.5	941.1	944.9	947.4	950.1	954.6	960.6	967.2
5°	871.1	873.0	883.2	893.5	903.3	911.7	918.7	927.1	937.4	950.0	964.0
7.5°	819.9	827.2	837.5	850.0	863.7	875.9	888.4	902.2	916.7	935.2	954.8
10°	787.1	795.0	807.6	823.5	837.9	852.4	867.8	882.8	901.0	922.9	948.2
12.5°	758.3	765.9	778.8	796.2	809.9	825.9	843.6	863.0	883.4	909.8	938.4
15°	718.5	727.3	743.2	751.6	772.6	791.8	808.1	836.1	862.2	889.3	922.5
17.5°	685.7	690.7	703.6	719.2	734.9	756.3	777.8	801.1	827.2	860.2	901.7
20°	663.3	667.5	681.5	697.9	714.7	734.3	753.5	776.8	806.2	841.2	886.0
22.5°	646.6	651.1	660.3	677.7	693.4	709.7	728.8	756.6	787.9	822.2	870.8
25°	622.2	625.1	631.2	645.2	659.2	677.3	694.2	720.3	752.5	792.6	841.2
27.5°	599.2	601.9	607.0	617.1	630.1	644.9	663.2	685.4	718.1	761.7	813.2
30°	585.4	585.9	590.6	599.9	611.1	623.2	640.0	665.2	696.1	740.4	794.5
32.5°	573.5	571.7	574.9	581.9	592.8	604.9	618.8	643.5	673.2	716.8	772.5
35°	553.2	552.2	550.9	557.0	566.2	575.6	587.7	606.5	640.0	680.6	739.0
37.5°	532.5	530.3	527.8	530.6	537.9	547.6	558.1	574.8	603.7	648.5	704.3
40°	517.3	515.4	514.0	513.0	519.6	528.9	536.8	552.7	579.8	622.2	677.3
42.5°	500.4	499.4	497.6	496.2	501.7	508.7	517.0	531.1	558.1	598.0	650.1
45°	473.3	472.4	471.5	470.6	473.9	480.4	486.9	497.1	520.5	559.3	606.5
47.5°	443.2	442.0	442.4	440.9	444.1	448.4	453.0	464.0	486.4	517.7	552.1
50°	421.5	421.1	421.1	421.1	422.0	427.1	431.3	439.8	460.3	491.6	516.3
52.5°	401.0	399.0	399.0	399.8	401.4	404.7	407.4	416.6	434.5	460.2	482.7
55°	368.8	365.1	364.1	365.1	366.5	369.3	372.0	379.5	394.9	414.1	427.1
57.5°	333.1	331.1	329.8	330.0	330.8	333.1	335.2	343.3	355.4	365.4	373.8
60°	308.1	309.1	304.9	305.8	305.8	307.6	310.9	316.0	326.3	333.3	341.7
62.5°	284.5	283.3	282.0	280.7	280.7	281.5	285.9	289.9	298.6	302.3	308.9
65°	247.9	247.9	245.0	246.0	246.5	243.3	245.6	250.2	255.8	257.3	263.3
67.5°	210.7	209.5	207.9	206.4	206.4	206.2	207.3	209.7	213.9	214.4	219.0
70°	185.3	184.4	184.0	182.5	180.7	183.0	181.6	184.0	186.3	186.7	189.5
72.5°	160.7	159.7	158.9	157.5	156.8	156.5	156.6	159.3	160.9	160.2	163.4
75°	125.6	124.7	123.7	121.4	121.4	119.9	120.5	122.3	124.2	122.8	125.6
77.5°	92.2	89.3	89.2	89.8	88.2	88.5	87.9	87.7	88.5	88.6	91.1
80°	71.0	67.7	68.7	68.1	67.7	67.2	66.3	66.8	67.2	67.7	69.1
82.5°	51.2	50.9	49.9	49.8	49.4	48.2	47.6	48.4	49.0	48.7	49.7
85°	26.1	24.7	25.7	25.2	25.7	25.2	23.8	23.8	24.7	24.3	25.2
87.5°	14.4	14.3	13.1	12.7	11.6	11.1	10.1	9.9	9.6	9.1	9.3
90°	33.2	32.0	28.2	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3
92.5°	36.0	34.2	31.2	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8
95°	43.4	41.3	38.1	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3
97.5°	45.3	42.9	64.3	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5
100°	46.4	44.0	90.2	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3
102.5°	80.3	87.7	138.2	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7
105°	239.5	291.9	318.6	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3
107.5°	496.7	535.1	530.9	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4
110°	591.5	601.2	598.0	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9



TEST NUMBER: P332174-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	668.6	668.4	665.1	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2
115°	768.1	765.2	762.5	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2
117.5°	861.4	859.1	857.6	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0
120°	922.2	919.8	918.9	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8
122.5°	982.3	980.6	979.5	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7
125°	1067.1	1066.5	1065.3	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4
127.5°	1150.6	1149.7	1148.3	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6
130°	1201.0	1199.8	1198.6	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7
132.5°	1248.9	1247.8	1246.8	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9
135°	1322.0	1321.1	1319.9	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8
137.5°	1386.3	1384.8	1384.2	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7
140°	1427.6	1426.4	1425.5	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4
142.5°	1466.8	1465.9	1465.0	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8
145°	1521.6	1521.1	1520.5	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0
147.5°	1570.5	1569.9	1569.2	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0
150°	1600.3	1599.7	1599.1	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0
152.5°	1626.4	1625.3	1625.0	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8
155°	1662.5	1661.0	1660.7	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3
157.5°	1694.0	1692.2	1692.6	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8
160°	1712.2	1710.4	1710.7	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1
162.5°	1728.4	1726.4	1726.6	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2
165°	1750.1	1747.7	1748.0	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0
167.5°	1767.1	1764.8	1764.8	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0
170°	1776.7	1774.3	1774.3	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7
172.5°	1783.2	1780.7	1780.5	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1
175°	1791.1	1789.0	1788.7	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3
177.5°	1794.1	1792.2	1792.0	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332174-940

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	969.5	971.3	977.8	982.2	987.4	990.4	993.4	995.7	998.6	999.3	1010.2
5°	973.8	983.1	999.5	1011.6	1026.5	1042.9	1054.1	1059.3	1072.7	1084.0	1106.3
7.5°	972.6	992.5	1017.1	1042.7	1070.1	1095.6	1117.6	1143.7	1162.3	1190.3	1217.7
10°	971.4	998.1	1029.8	1062.5	1100.8	1136.2	1168.0	1203.5	1232.9	1271.7	1304.8
12.5°	968.1	1000.3	1044.4	1083.1	1129.5	1178.5	1225.5	1271.0	1297.1	1361.6	1392.1
15°	959.8	998.1	1053.2	1112.0	1175.9	1233.9	1293.6	1341.2	1418.2	1474.7	1510.6
17.5°	944.0	997.6	1062.8	1133.8	1211.6	1287.9	1355.6	1427.8	1509.5	1577.9	1650.7
20°	936.5	995.2	1068.1	1146.6	1227.3	1313.7	1390.7	1477.5	1566.6	1633.9	1727.2
22.5°	922.7	989.3	1067.7	1155.1	1241.4	1330.8	1420.9	1508.5	1611.5	1704.1	1793.0
25°	900.0	974.7	1056.0	1153.5	1254.8	1344.4	1452.3	1568.5	1675.9	1794.9	1883.6
27.5°	876.3	956.1	1037.5	1128.2	1237.2	1343.5	1479.2	1610.5	1741.9	1844.6	1910.2
30°	858.0	935.5	1019.6	1111.1	1218.9	1345.4	1497.1	1640.4	1768.4	1856.5	1893.5
32.5°	838.2	916.9	991.1	1087.2	1202.1	1344.3	1508.3	1658.0	1769.9	1828.5	1821.4
35°	807.2	873.0	945.3	1037.8	1173.1	1336.1	1514.8	1659.6	1728.2	1715.6	1620.3
37.5°	762.3	817.7	888.9	990.2	1139.5	1318.8	1501.8	1610.3	1605.9	1503.2	1365.3
40°	734.3	781.5	850.1	956.5	1113.4	1307.6	1481.2	1551.8	1492.0	1348.6	1183.4
42.5°	697.8	741.1	809.8	919.2	1084.6	1284.8	1442.0	1462.5	1345.6	1180.6	1029.1
45°	641.0	679.2	750.2	863.2	1041.5	1235.2	1346.3	1296.4	1139.1	968.7	853.4
47.5°	580.0	619.7	688.0	804.1	979.1	1160.7	1213.5	1107.3	945.7	807.6	701.8
50°	541.5	579.8	646.6	763.8	936.9	1099.4	1121.3	984.1	835.6	714.3	627.4
52.5°	502.7	538.7	604.3	721.9	887.6	1028.4	1014.9	875.0	738.5	635.1	566.9
55°	444.9	478.9	541.5	651.7	802.5	914.0	865.0	731.6	618.6	538.2	486.4
57.5°	393.2	425.9	479.8	579.3	710.4	787.1	724.7	612.2	522.4	460.6	422.0
60°	358.0	387.0	438.4	530.7	644.7	703.0	641.4	542.0	466.4	416.9	382.4
62.5°	324.9	350.0	397.6	481.5	580.4	629.5	567.1	483.0	418.6	374.7	345.4
65°	274.5	297.4	339.4	404.7	486.0	518.6	464.9	396.8	346.9	314.1	294.5
67.5°	228.5	248.0	284.3	335.7	395.5	419.3	378.4	325.7	288.0	261.8	246.2
70°	198.0	214.7	243.3	287.6	341.7	359.9	321.6	278.2	250.7	229.7	215.2
72.5°	172.2	184.5	210.4	244.6	289.8	304.3	277.6	239.4	213.7	198.0	186.5
75°	131.2	141.4	158.3	185.8	217.0	225.5	205.4	181.6	164.3	153.1	144.3
77.5°	94.6	102.1	114.3	131.3	152.9	160.5	147.8	131.9	119.3	111.7	106.8
80°	71.4	77.5	87.7	101.7	114.9	119.0	111.6	99.4	90.6	86.4	82.1
82.5°	52.8	56.2	62.3	71.9	80.9	85.8	79.5	72.1	67.4	63.6	62.0
85°	26.6	28.4	31.3	35.0	40.6	42.4	40.1	38.3	35.5	33.2	33.2
87.5°	10.6	11.1	12.8	14.2	16.4	18.3	18.6	18.7	19.1	19.0	18.8
90°	4.3	7.2	10.3	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3
92.5°	24.0	23.1	22.3	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9
95°	69.2	57.1	44.9	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5
97.5°	158.0	152.6	147.0	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7
100°	231.2	237.1	243.1	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7
102.5°	300.0	304.3	308.4	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0
105°	400.6	403.8	407.1	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1
107.5°	507.0	509.6	512.3	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2
110°	578.3	580.6	583.0	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	646.3	648.5	650.6	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8
115°	747.0	748.8	750.6	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2
117.5°	845.3	847.4	849.6	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8
120°	906.5	909.2	911.9	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6
122.5°	967.9	970.1	972.2	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9
125°	1052.8	1055.3	1057.6	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6
127.5°	1135.0	1137.4	1139.7	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6
130°	1186.2	1188.6	1190.9	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1
132.5°	1235.2	1237.6	1239.9	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2
135°	1309.6	1311.3	1313.1	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9
137.5°	1374.0	1376.3	1378.5	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7
140°	1416.2	1418.0	1419.8	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8
142.5°	1455.6	1457.4	1459.2	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8
145°	1511.1	1513.2	1515.3	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2
147.5°	1562.5	1563.8	1565.1	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0
150°	1593.9	1594.8	1595.7	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9
152.5°	1622.3	1622.6	1623.1	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5
155°	1661.8	1661.2	1660.6	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0
157.5°	1693.8	1693.7	1693.6	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8
160°	1712.7	1712.4	1712.2	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0
162.5°	1730.4	1729.7	1728.8	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4
165°	1752.1	1751.2	1750.3	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4
167.5°	1768.9	1767.7	1766.6	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5
170°	1778.5	1777.3	1776.1	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1
172.5°	1784.7	1783.2	1781.8	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5
175°	1792.9	1791.4	1789.9	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1
177.5°	1795.3	1794.1	1793.0	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	1014.0	1014.3	1018.4	1021.5	1019.9	1021.8	1022.5
5°	1107.8	1124.6	1133.5	1140.0	1140.5	1140.9	1144.7
7.5°	1240.8	1258.8	1272.0	1292.0	1298.0	1304.8	1302.8
10°	1337.9	1364.5	1387.4	1399.5	1412.6	1431.7	1416.4
12.5°	1428.7	1475.9	1510.6	1529.6	1541.9	1545.7	1538.1
15°	1578.3	1639.9	1673.1	1672.1	1714.2	1732.4	1703.9
17.5°	1715.6	1772.5	1818.0	1841.4	1876.3	1884.1	1880.5
20°	1799.7	1861.7	1897.2	1937.3	1955.5	1971.8	1974.7
22.5°	1872.1	1927.8	1965.9	1999.3	2014.6	2022.3	2026.9
25°	1946.7	1990.6	2013.4	2025.1	2029.3	2028.4	2022.3
27.5°	1941.5	1944.9	1919.7	1895.0	1872.9	1847.9	1839.3
30°	1891.1	1851.9	1781.9	1742.2	1683.8	1637.6	1656.3
32.5°	1758.5	1680.5	1601.9	1515.1	1443.3	1422.9	1402.3
35°	1500.8	1363.6	1283.4	1189.9	1152.6	1115.3	1089.6
37.5°	1214.2	1108.0	1012.8	951.7	914.4	890.7	878.0
40°	1049.9	954.2	875.7	826.3	797.8	771.2	767.5
42.5°	918.8	829.8	770.8	731.4	704.1	692.8	684.6
45°	752.5	690.5	650.8	622.8	604.6	597.5	588.2
47.5°	636.9	593.1	563.3	544.2	530.5	525.3	524.5
50°	572.3	535.9	514.0	499.0	488.3	486.4	478.9
52.5°	523.8	492.2	475.1	462.1	454.3	449.1	446.8
55°	454.7	433.6	418.3	410.8	404.7	399.6	399.6
57.5°	397.8	380.3	370.1	363.7	361.9	358.2	355.9
60°	362.7	347.8	339.8	334.2	330.6	331.0	326.8
62.5°	328.3	318.7	311.1	305.5	301.0	301.1	301.4
65°	279.6	272.2	266.5	264.7	261.9	258.6	259.6
67.5°	236.9	230.0	225.6	222.4	221.5	219.7	222.4
70°	206.3	201.2	198.0	195.1	194.2	194.7	197.0
72.5°	178.3	174.7	172.5	171.2	169.2	169.2	170.9
75°	140.1	137.2	135.4	133.9	133.5	133.5	133.5
77.5°	102.9	102.3	101.4	99.3	99.4	100.0	100.0
80°	81.2	79.8	79.4	78.5	77.0	76.1	78.5
82.5°	60.7	59.3	58.9	58.7	56.4	56.3	58.2
85°	32.6	31.3	31.7	31.3	31.3	30.9	30.9
87.5°	18.7	18.5	18.4	18.8	18.5	18.4	19.2
90°	35.6	36.7	37.6	38.3	38.8	39.4	39.9
92.5°	39.9	41.7	42.8	43.2	43.5	43.9	44.2
95°	47.5	49.6	50.6	50.6	50.6	50.6	50.6
97.5°	50.0	52.4	53.8	54.0	54.3	54.7	54.9
100°	51.1	53.5	54.8	55.1	55.4	55.7	56.0
102.5°	65.7	58.3	54.9	55.5	56.0	56.5	57.1
105°	134.6	82.2	56.3	56.9	57.5	58.1	58.7
107.5°	419.7	381.3	342.3	302.8	263.2	223.7	184.2
110°	571.9	562.1	536.0	493.7	451.3	408.9	366.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	669.0	669.1	664.8	655.8	646.8	637.9	628.9
115°	774.1	777.0	779.1	780.3	781.5	782.7	783.9
117.5°	866.1	868.5	869.9	870.0	870.3	870.6	870.8
120°	926.9	929.3	930.5	930.5	930.5	930.5	930.5
122.5°	985.6	987.3	988.2	988.5	988.6	988.9	989.2
125°	1068.3	1068.8	1069.4	1070.1	1070.6	1071.2	1071.8
127.5°	1152.5	1153.4	1153.6	1153.1	1152.4	1151.8	1151.3
130°	1203.4	1204.5	1204.8	1204.3	1203.6	1203.0	1202.5
132.5°	1251.3	1252.5	1252.7	1251.9	1251.1	1250.2	1249.4
135°	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1
137.5°	1389.1	1390.5	1390.9	1390.4	1389.7	1389.1	1388.6
140°	1429.9	1431.1	1431.5	1430.8	1430.3	1429.7	1429.1
142.5°	1468.7	1469.6	1469.7	1468.9	1468.0	1467.2	1466.4
145°	1522.9	1523.4	1523.8	1523.8	1523.8	1523.8	1523.8
147.5°	1571.6	1572.3	1571.8	1570.5	1569.1	1567.7	1566.4
150°	1601.5	1602.0	1602.0	1601.1	1600.2	1599.3	1598.4
152.5°	1628.5	1629.6	1629.4	1628.1	1626.7	1625.3	1624.0
155°	1665.4	1667.0	1666.8	1665.0	1663.2	1661.4	1659.7
157.5°	1697.5	1699.3	1699.1	1696.7	1694.4	1692.1	1689.8
160°	1715.7	1717.4	1717.3	1715.2	1713.2	1711.1	1709.1
162.5°	1732.4	1734.4	1734.5	1732.7	1730.8	1729.0	1727.2
165°	1754.8	1757.2	1757.3	1755.2	1753.2	1751.1	1749.0
167.5°	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8
170°	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3
172.5°	1787.9	1790.2	1790.1	1787.5	1784.9	1782.3	1779.7
175°	1795.2	1797.3	1797.2	1794.7	1792.4	1790.0	1787.7
177.5°	1797.9	1799.8	1799.6	1797.2	1794.8	1792.4	1790.1
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3

(END OF REPORT)