

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: P333419-940

Luminaire Tested: **S125DIW-S850D1340U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333419-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S850D1340U940-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 850 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7229.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

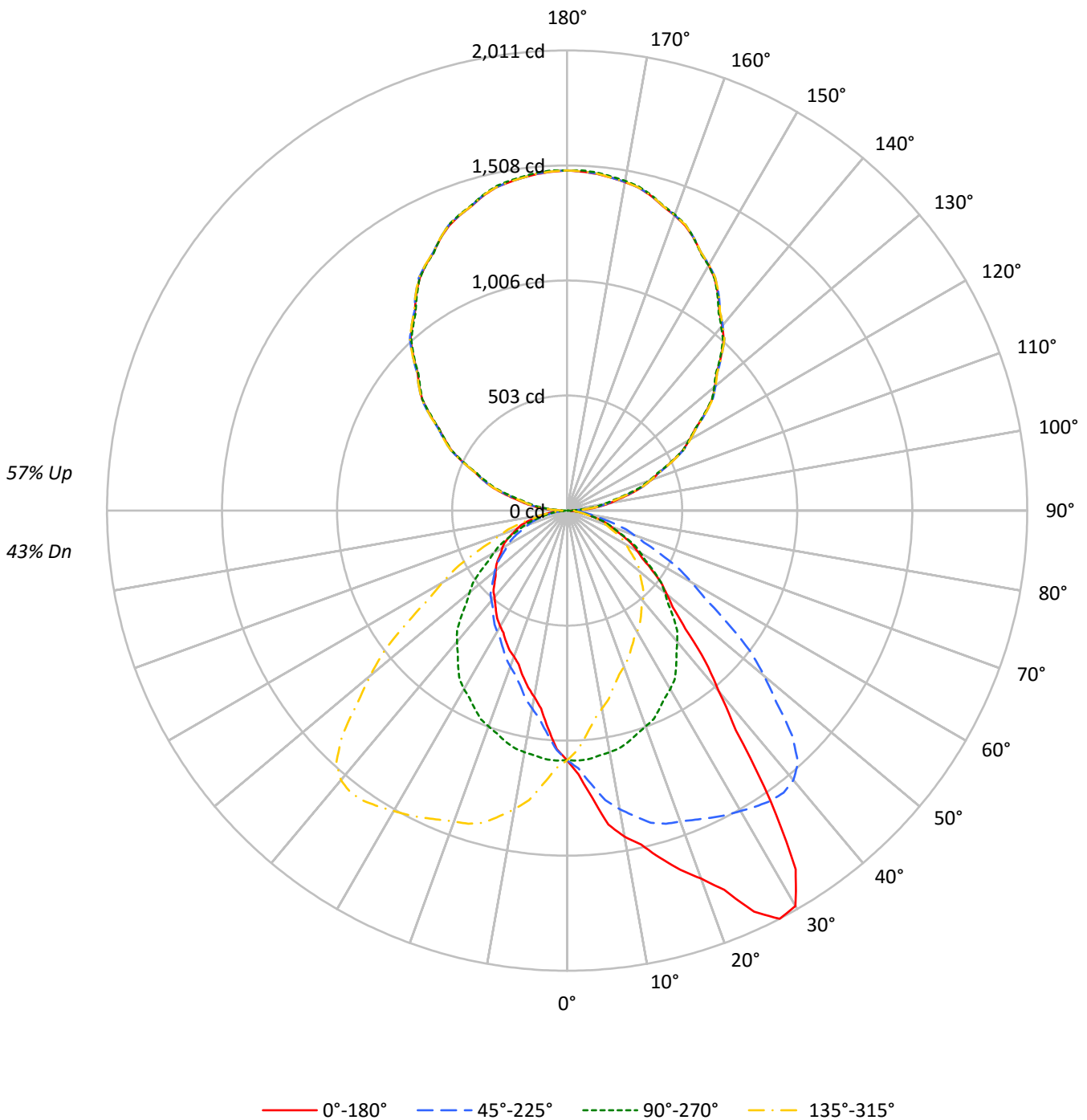
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	28	26	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7045	7045	7045	7045
5°	8159	7069	6190	7069
10°	9492	7033	5423	7033
15°	10508	6981	5003	6981
20°	11762	6899	4665	6899
25°	13779	6807	4501	6807
30°	14882	6716	4357	6716
35°	12236	6545	4264	6545
40°	8697	6308	4161	6308
45°	6682	5989	4103	5989
50°	5704	5591	4093	5591
55°	5078	5203	4130	5203
60°	4580	4779	4234	4779
65°	4232	4351	4345	4351
70°	3848	3909	4407	3909
75°	3399	3441	4367	3441
80°	2860	2804	3998	2804
85°	2267	2023	3223	2023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.5
10°-20°	312.7	4.3
20°-30°	507.7	7.0
30°-40°	619.3	8.6
40°-50°	563.4	7.8
50°-60°	448.8	6.2
60°-70°	312.6	4.3
70°-80°	166.7	2.3
80°-90°	45.3	0.6
90°-100°	99.5	1.4
100°-110°	294.0	4.1
110°-120°	497.9	6.9
120°-130°	655.3	9.1
130°-140°	734.3	10.2
140°-150°	719.7	10.0
150°-160°	604.5	8.4
160°-170°	401.8	5.6
170°-180°	140.6	1.9
0°-30°	925.4	12.8
0°-40°	1544.8	21.4
0°-60°	2556.9	35.4
0°-90°	3081.5	42.6
90°-120°	891.4	12.3
90°-150°	3000.7	41.5
90°-180°	4148.0	57.4
0°-180°	7229.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1258	1090	955	1090	1258	127
15°	1572	1044	748	1044	1572	450
25°	1934	955	632	955	1934	883
35°	1552	830	541	830	1552	950
45°	732	656	449	656	732	586
55°	451	462	367	462	451	406
65°	277	285	284	285	277	275
75°	136	138	175	138	136	147
85°	31	27	44	27	31	36
90°	28	1	28	1	28	17
95°	100	75	100	75	100	101
105°	287	264	287	264	287	304
115°	503	499	503	499	503	498
125°	732	728	732	728	732	654
135°	950	946	950	946	950	733
145°	1151	1146	1151	1146	1151	718
155°	1312	1312	1312	1312	1312	604
165°	1423	1426	1423	1426	1423	401
175°	1477	1483	1477	1483	1477	140
180°	1486	1486	1486	1486	1486	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1153.9	1152.4	1150.9	1147.9	1150.1	1143.9	1140.9	1135.7	1129.4	1127.2	1124.6
5°	1258.5	1260.8	1263.1	1253.4	1254.4	1247.9	1233.1	1221.0	1211.3	1198.8	1190.0
7.5°	1384.5	1378.9	1378.5	1372.3	1361.4	1352.7	1337.1	1317.3	1298.2	1276.3	1258.2
10°	1447.4	1447.9	1443.7	1436.3	1424.8	1416.4	1396.1	1376.5	1353.0	1325.2	1305.3
12.5°	1494.9	1496.7	1491.5	1481.5	1475.9	1457.1	1441.2	1418.1	1390.0	1367.8	1337.5
15°	1571.6	1566.4	1562.7	1550.2	1540.5	1521.1	1495.6	1471.5	1440.9	1412.6	1384.5
17.5°	1645.4	1649.5	1642.5	1631.1	1601.0	1578.2	1544.1	1511.1	1473.1	1435.2	1401.5
20°	1711.4	1715.0	1704.4	1684.5	1648.4	1625.7	1580.7	1538.2	1494.2	1445.6	1408.5
22.5°	1793.6	1790.6	1776.3	1746.0	1714.7	1672.8	1624.1	1572.3	1517.2	1462.2	1413.0
25°	1933.6	1914.1	1905.3	1867.9	1826.7	1765.1	1698.4	1622.5	1553.9	1481.2	1418.3
27.5°	2011.2	2005.1	1995.3	1969.2	1925.8	1860.0	1781.4	1688.8	1592.1	1500.4	1418.0
30°	1995.6	1996.5	1997.5	1989.1	1961.4	1911.8	1833.6	1734.0	1619.2	1515.9	1420.6
32.5°	1857.9	1874.7	1890.8	1909.9	1917.6	1908.2	1859.1	1769.2	1651.1	1533.7	1419.1
35°	1552.0	1557.2	1609.4	1661.3	1731.7	1786.4	1822.9	1783.2	1683.6	1548.8	1417.3
37.5°	1210.1	1235.2	1271.4	1330.0	1431.6	1522.5	1639.5	1693.3	1661.2	1553.7	1414.1
40°	1031.6	1054.8	1078.3	1138.1	1223.8	1334.0	1466.9	1580.3	1606.7	1538.2	1402.9
42.5°	893.9	912.1	938.3	983.3	1054.9	1152.4	1279.4	1427.7	1518.9	1493.0	1379.7
45°	731.6	743.2	763.6	799.2	851.0	927.5	1039.5	1201.6	1342.7	1389.6	1324.3
47.5°	626.2	626.1	641.9	666.6	704.0	768.9	851.8	978.7	1129.6	1241.2	1236.0
50°	567.7	565.3	577.8	599.1	628.7	671.8	751.0	852.4	997.4	1123.7	1159.0
52.5°	517.3	517.5	525.2	541.0	565.8	602.6	661.7	753.1	877.0	1006.7	1073.0
55°	451.0	449.2	457.9	468.6	486.6	510.7	553.3	623.2	723.7	851.5	937.6
57.5°	390.2	395.3	398.9	406.3	421.2	437.4	473.3	524.6	604.3	714.0	805.0
60°	354.6	359.8	362.6	370.0	382.0	395.9	423.7	465.4	532.4	627.0	717.2
62.5°	322.8	326.8	327.7	334.4	344.2	357.8	379.6	414.6	467.6	550.3	638.7
65°	276.9	276.9	278.7	285.7	290.3	302.4	319.1	344.5	387.1	451.5	526.9
67.5°	232.6	234.9	234.3	237.5	241.7	251.0	263.0	284.0	315.6	362.6	422.9
70°	203.8	205.5	205.1	207.4	212.0	218.1	227.8	247.7	270.4	310.7	362.6
72.5°	177.8	178.5	177.4	180.4	183.2	188.4	199.3	209.9	231.1	265.1	307.7
75°	136.2	137.1	137.9	139.8	142.6	145.3	151.0	161.6	175.5	201.0	228.3
77.5°	102.0	100.3	102.5	102.3	103.8	105.9	110.8	116.5	127.9	144.0	165.1
80°	76.9	77.3	77.3	77.8	80.1	81.5	85.7	89.8	98.6	110.7	125.5
82.5°	56.1	57.3	56.6	57.4	59.4	60.4	62.7	66.1	71.2	80.7	91.4
85°	30.6	28.3	29.2	30.1	30.1	30.6	32.4	33.8	36.6	40.3	44.4
87.5°	14.4	15.1	15.2	15.1	15.3	15.1	16.3	16.1	16.9	17.7	18.9
90°	27.7	27.0	26.2	25.4	24.7	23.6	22.4	21.0	19.8	18.5	16.7
92.5°	54.6	54.0	53.5	52.9	52.3	51.2	49.5	47.8	46.1	44.4	42.2
95°	99.5	99.0	98.4	97.9	97.4	96.3	94.4	92.6	90.9	89.1	86.5
97.5°	150.9	150.5	150.3	149.9	149.6	148.6	146.9	145.2	143.5	141.8	138.3
100°	189.7	189.2	188.7	188.2	187.6	186.2	183.9	181.6	179.3	177.0	173.6
102.5°	228.5	227.8	227.1	226.4	225.7	224.1	221.5	219.0	216.5	214.0	212.3
105°	286.9	286.1	285.3	284.5	283.7	282.6	281.1	279.6	278.0	276.4	274.9
107.5°	346.5	346.6	346.6	346.7	346.8	346.4	345.6	344.8	344.1	343.3	342.1
110°	390.9	391.2	391.5	391.7	392.0	391.7	390.9	390.2	389.4	388.6	387.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	434.4	434.9	435.4	435.9	436.3	436.3	436.0	435.6	435.2	434.9	433.9
115°	503.2	503.5	503.6	503.9	504.2	504.4	504.7	505.0	505.2	505.5	505.0
117.5°	570.2	571.3	572.3	573.4	574.4	574.8	574.5	574.4	574.2	574.0	573.5
120°	616.5	617.5	618.6	619.6	620.6	621.2	621.2	621.2	621.2	621.2	620.9
122.5°	662.8	663.6	664.4	665.2	666.1	666.6	666.8	667.0	667.2	667.4	666.7
125°	732.2	732.5	732.7	733.0	733.3	733.6	734.1	734.6	735.1	735.7	735.4
127.5°	798.8	799.3	799.9	800.4	800.8	801.3	801.5	801.7	802.0	802.3	802.0
130°	843.2	843.7	844.3	844.8	845.3	845.7	846.0	846.1	846.4	846.7	846.1
132.5°	884.8	885.6	886.3	887.1	887.8	888.2	888.5	888.8	889.0	889.3	889.4
135°	949.7	950.7	951.7	952.7	953.8	954.3	954.3	954.3	954.3	954.3	954.0
137.5°	1013.1	1014.3	1015.6	1016.9	1018.2	1018.7	1018.3	1018.1	1017.7	1017.4	1016.9
140°	1053.7	1055.1	1056.3	1057.6	1058.9	1059.3	1058.7	1058.3	1057.7	1057.2	1056.4
142.5°	1092.6	1093.9	1095.2	1096.4	1097.8	1098.2	1098.0	1097.6	1097.3	1097.0	1096.0
145°	1150.9	1151.6	1152.4	1153.2	1154.0	1154.4	1154.4	1154.4	1154.4	1154.4	1153.6
147.5°	1200.7	1202.4	1204.2	1205.9	1207.6	1208.2	1207.6	1206.9	1206.4	1205.8	1205.1
150°	1237.7	1238.1	1238.7	1239.2	1239.7	1240.0	1240.0	1240.0	1240.0	1240.0	1238.9
152.5°	1268.2	1269.1	1270.1	1271.0	1271.9	1272.0	1271.4	1270.8	1270.2	1269.6	1269.2
155°	1311.7	1313.0	1314.3	1315.5	1316.8	1317.0	1315.9	1314.9	1313.8	1312.9	1312.6
157.5°	1348.0	1349.7	1351.4	1353.1	1354.8	1355.1	1354.1	1353.1	1352.0	1351.0	1350.8
160°	1373.0	1374.3	1375.6	1376.9	1378.1	1378.2	1377.2	1376.2	1375.2	1374.1	1373.9
162.5°	1394.3	1395.8	1397.2	1398.7	1400.3	1400.3	1399.1	1397.9	1396.7	1395.4	1395.3
165°	1422.7	1424.2	1425.8	1427.4	1428.9	1429.1	1428.2	1427.1	1426.1	1425.0	1424.8
167.5°	1445.4	1447.0	1448.6	1450.2	1451.8	1451.8	1450.3	1448.8	1447.2	1445.6	1445.6
170°	1457.4	1459.2	1461.1	1462.9	1464.6	1464.7	1463.2	1461.7	1460.2	1458.6	1458.6
172.5°	1467.6	1469.2	1470.8	1472.4	1474.0	1474.0	1472.5	1471.0	1469.4	1467.8	1467.8
175°	1477.1	1478.9	1480.7	1482.5	1484.3	1484.4	1482.9	1481.3	1479.8	1478.3	1478.3
177.5°	1482.6	1484.1	1485.5	1486.9	1488.4	1488.5	1487.3	1486.0	1484.8	1483.5	1483.8
180°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1122.4	1119.8	1116.8	1111.6	1105.4	1102.0	1096.8	1093.5	1086.8	1081.3	1075.3
5°	1179.3	1167.2	1156.2	1141.8	1126.1	1115.9	1103.8	1090.4	1076.6	1062.2	1046.4
7.5°	1238.3	1217.0	1193.8	1168.9	1144.6	1122.2	1100.8	1079.8	1060.2	1036.4	1016.4
10°	1277.9	1251.1	1222.4	1188.6	1155.7	1127.0	1097.9	1072.4	1046.4	1018.7	994.1
12.5°	1317.6	1281.8	1241.3	1204.2	1164.6	1130.0	1095.6	1063.1	1030.6	999.8	971.2
15°	1345.6	1314.0	1276.6	1223.8	1179.3	1131.7	1086.3	1044.1	1004.8	970.5	934.4
17.5°	1364.0	1323.4	1283.2	1232.5	1174.2	1120.9	1069.5	1021.3	976.9	933.4	898.7
20°	1367.3	1325.6	1283.5	1233.9	1174.2	1113.1	1061.8	1003.8	956.2	911.2	868.6
22.5°	1366.2	1319.0	1273.1	1222.1	1163.9	1107.6	1045.4	986.4	934.7	890.5	846.1
25°	1355.8	1305.3	1247.9	1196.5	1139.1	1079.3	1016.4	955.2	902.4	851.9	808.0
27.5°	1347.0	1281.6	1216.6	1156.6	1101.2	1046.4	986.1	923.5	865.0	813.9	772.4
30°	1336.3	1264.5	1191.3	1128.8	1071.9	1018.7	961.7	900.6	839.5	789.4	745.0
32.5°	1326.7	1243.0	1165.8	1097.8	1037.4	985.7	933.2	875.0	815.0	764.3	719.8
35°	1308.1	1211.3	1122.8	1046.0	981.6	928.4	884.4	830.2	775.1	726.0	683.4
37.5°	1284.4	1169.6	1074.7	994.1	923.5	867.5	826.5	784.9	732.0	684.7	646.2
40°	1265.9	1140.0	1039.5	957.1	884.0	825.5	787.6	748.2	704.3	660.3	619.6
42.5°	1242.6	1113.3	1004.0	915.3	842.8	786.0	746.1	712.7	673.9	632.8	595.0
45°	1199.7	1065.0	946.5	851.0	777.8	721.8	680.6	655.7	626.5	587.5	555.6
47.5°	1136.7	1006.9	884.3	785.9	710.3	658.4	619.8	595.8	575.2	546.4	517.4
50°	1080.7	963.6	839.5	741.7	666.3	613.9	578.4	556.5	539.0	516.7	492.2
52.5°	1018.1	909.1	795.4	698.8	624.1	572.5	537.6	518.4	503.8	487.9	463.7
55°	918.6	826.1	720.5	628.7	559.8	509.3	478.8	462.1	450.0	438.0	423.2
57.5°	809.0	736.6	643.1	559.4	495.8	449.9	421.3	405.1	395.8	389.6	380.8
60°	732.0	670.0	589.4	513.0	451.0	410.3	382.5	370.0	362.1	357.0	350.5
62.5°	660.6	609.7	534.9	465.2	411.0	372.5	347.7	335.6	328.0	325.5	320.1
65°	555.2	515.9	454.2	396.4	350.1	317.2	296.3	284.7	280.1	277.3	277.9
67.5°	451.4	427.4	377.9	328.6	291.6	264.0	247.4	238.4	236.1	232.5	232.4
70°	388.0	370.0	328.3	285.3	252.4	231.0	216.2	207.0	204.6	202.8	202.3
72.5°	332.1	316.3	280.1	245.6	216.1	197.3	185.1	179.6	175.8	174.7	174.6
75°	249.6	240.8	212.0	184.8	164.3	151.4	143.1	137.9	135.2	134.7	135.2
77.5°	177.5	169.8	151.5	132.2	119.3	109.5	102.5	100.7	97.6	97.6	97.1
80°	133.3	128.2	116.7	101.4	90.8	82.4	78.7	75.4	74.5	73.1	74.5
82.5°	96.7	91.2	83.4	73.7	64.8	59.8	56.1	55.1	54.6	53.9	54.2
85°	47.7	48.2	43.5	36.1	32.4	29.6	27.3	27.3	26.8	26.4	26.8
87.5°	19.3	18.2	16.3	14.8	12.6	11.1	10.3	10.3	9.5	9.5	10.3
90°	14.9	13.1	11.3	9.4	7.3	5.3	3.2	1.2	3.2	5.3	7.3
92.5°	40.0	37.8	35.6	33.7	32.3	30.9	29.4	28.0	29.4	30.9	32.3
95°	83.9	81.3	78.8	77.2	76.7	76.2	75.7	75.2	75.7	76.2	76.7
97.5°	134.7	131.2	127.6	125.7	125.6	125.4	125.1	124.9	125.1	125.4	125.6
100°	170.3	166.9	163.6	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9
102.5°	210.6	208.9	207.2	205.8	204.8	203.8	202.8	201.7	202.8	203.8	204.8
105°	273.4	271.8	270.3	268.9	267.6	266.3	265.0	263.8	265.0	266.3	267.6
107.5°	340.9	339.7	338.6	337.3	336.1	334.7	333.5	332.2	333.5	334.7	336.1
110°	387.1	386.4	385.6	384.5	383.3	382.0	380.7	379.4	380.7	382.0	383.3



TEST NUMBER: P333419-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	432.9	431.9	431.1	430.2	429.5	428.8	428.2	427.5	428.2	428.8	429.5
115°	504.4	503.9	503.5	502.7	501.6	500.6	499.5	498.6	499.5	500.6	501.6
117.5°	573.0	572.6	572.1	571.7	571.1	570.7	570.2	569.8	570.2	570.7	571.1
120°	620.6	620.4	620.1	619.4	618.0	616.8	615.5	614.2	615.5	616.8	618.0
122.5°	666.1	665.4	664.8	664.1	663.7	663.3	662.8	662.4	662.8	663.3	663.7
125°	735.1	734.9	734.6	733.7	732.2	730.7	729.1	727.5	729.1	730.7	732.2
127.5°	801.6	801.4	801.0	800.5	799.6	798.7	797.8	796.9	797.8	798.7	799.6
130°	845.7	845.2	844.6	843.7	842.5	841.2	839.9	838.6	839.9	841.2	842.5
132.5°	889.5	889.6	889.7	888.7	886.5	884.5	882.3	880.2	882.3	884.5	886.5
135°	953.8	953.5	953.2	952.3	950.8	949.2	947.7	946.2	947.7	949.2	950.8
137.5°	1016.3	1015.7	1015.1	1014.1	1012.6	1011.2	1009.7	1008.2	1009.7	1011.2	1012.6
140°	1055.7	1054.9	1054.1	1053.1	1051.9	1050.5	1049.3	1047.9	1049.3	1050.5	1051.9
142.5°	1095.0	1094.0	1093.1	1092.1	1091.0	1089.9	1088.9	1087.8	1088.9	1089.9	1091.0
145°	1152.8	1152.1	1151.3	1150.4	1149.3	1148.3	1147.3	1146.3	1147.3	1148.3	1149.3
147.5°	1204.5	1203.9	1203.3	1202.7	1202.1	1201.6	1201.0	1200.4	1201.0	1201.6	1202.1
150°	1238.0	1236.9	1235.8	1235.5	1235.7	1236.0	1236.3	1236.5	1236.3	1236.0	1235.7
152.5°	1268.7	1268.4	1267.9	1267.6	1267.2	1266.9	1266.5	1266.1	1266.5	1266.9	1267.2
155°	1312.3	1312.1	1311.8	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7
157.5°	1350.5	1350.2	1350.0	1350.1	1350.7	1351.3	1351.8	1352.4	1351.8	1351.3	1350.7
160°	1373.7	1373.4	1373.1	1373.4	1374.1	1374.9	1375.7	1376.4	1375.7	1374.9	1374.1
162.5°	1395.3	1395.3	1395.3	1395.5	1396.1	1396.6	1397.2	1397.8	1397.2	1396.6	1396.1
165°	1424.5	1424.2	1424.1	1424.2	1424.7	1425.1	1425.7	1426.2	1425.7	1425.1	1424.7
167.5°	1445.6	1445.6	1445.6	1446.2	1447.2	1448.2	1449.2	1450.3	1449.2	1448.2	1447.2
170°	1458.6	1458.6	1458.6	1459.1	1460.2	1461.2	1462.2	1463.2	1462.2	1461.2	1460.2
172.5°	1467.8	1467.8	1467.8	1468.4	1469.4	1470.4	1471.4	1472.5	1471.4	1470.4	1469.4
175°	1478.3	1478.3	1478.3	1478.8	1479.8	1480.9	1481.8	1482.9	1481.8	1480.9	1479.8
177.5°	1484.0	1484.2	1484.4	1484.9	1485.8	1486.6	1487.4	1488.2	1487.4	1486.6	1485.8
180°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1072.0	1067.9	1064.6	1057.2	1053.1	1047.6	1043.1	1047.9	1042.8	1045.0	1041.6
5°	1038.6	1025.6	1016.4	1002.9	991.3	980.7	972.9	971.4	967.7	965.9	960.3
7.5°	998.4	982.1	966.3	948.7	933.8	918.7	909.1	901.2	895.9	888.9	884.2
10°	974.6	952.9	934.4	913.1	894.6	878.3	865.4	858.9	852.9	844.1	840.9
12.5°	945.4	922.9	900.3	877.5	859.8	841.7	830.5	820.7	816.6	806.6	805.7
15°	910.3	876.6	854.3	831.2	806.6	791.8	782.5	771.9	767.2	760.3	755.2
17.5°	868.4	838.3	810.5	786.5	765.4	753.0	741.5	734.1	726.2	721.7	713.4
20°	838.1	809.4	781.6	756.1	739.9	725.6	716.3	709.4	701.1	698.7	690.4
22.5°	812.5	780.9	754.2	732.8	715.1	698.9	688.8	684.2	678.4	671.3	669.6
25°	771.0	738.1	715.4	694.1	678.3	663.5	656.6	650.6	645.0	639.9	638.0
27.5°	735.0	705.6	678.7	659.4	645.8	632.2	626.1	618.8	614.7	610.6	605.6
30°	709.8	679.8	656.1	637.6	622.8	610.7	604.2	599.1	595.5	591.7	589.0
32.5°	683.9	656.0	633.1	615.0	600.2	591.1	585.3	581.8	577.7	573.2	569.7
35°	649.6	619.0	596.8	581.1	569.5	562.6	556.1	552.9	548.2	548.2	544.5
37.5°	611.0	584.6	565.0	550.6	540.3	534.0	527.0	524.8	521.8	519.9	518.6
40°	588.1	563.5	545.0	530.7	519.5	514.4	508.9	505.2	503.3	501.0	500.1
42.5°	564.4	540.9	523.2	509.9	500.2	495.9	490.7	488.1	484.4	481.3	480.8
45°	528.3	505.6	489.5	478.8	470.5	465.4	462.1	456.6	454.7	451.0	450.5
47.5°	494.1	472.3	456.5	447.7	440.4	436.2	431.1	425.6	423.5	421.6	421.4
50°	468.6	448.7	433.8	425.5	418.6	412.6	407.4	403.8	402.3	402.3	403.3
52.5°	442.6	425.7	413.1	403.0	396.4	389.9	385.2	383.0	380.8	383.1	384.8
55°	404.7	387.5	378.3	368.5	362.1	354.6	352.4	351.4	350.1	353.7	355.6
57.5°	364.5	352.5	341.6	332.0	326.2	321.9	318.8	318.2	320.7	322.5	328.6
60°	338.9	325.0	315.3	307.9	301.0	298.2	297.3	296.3	298.2	303.3	311.1
62.5°	310.8	299.5	289.0	283.5	278.4	273.8	273.6	274.1	277.9	283.7	291.5
65°	269.5	259.8	252.8	246.3	242.2	239.4	240.3	242.2	246.3	254.2	263.0
67.5°	227.6	220.9	214.6	209.4	205.4	205.4	206.3	209.1	214.0	223.1	231.1
70°	200.5	193.1	188.0	185.7	182.4	180.6	183.3	188.0	192.2	200.5	207.4
72.5°	173.4	167.2	163.2	161.6	160.2	158.7	159.6	164.6	170.3	178.6	186.7
75°	133.3	131.0	128.2	126.4	125.0	125.9	126.9	131.5	136.2	144.9	154.2
77.5°	97.3	94.9	93.3	92.8	92.0	92.5	95.1	98.5	103.1	109.5	116.5
80°	73.7	72.7	71.8	71.3	71.3	71.8	75.4	77.8	81.9	88.0	93.5
82.5°	53.6	53.1	52.9	52.8	53.1	53.2	55.5	58.5	62.0	66.5	71.3
85°	28.3	27.3	28.7	29.2	28.3	29.6	30.6	32.4	33.8	36.1	38.4
87.5°	11.1	12.3	12.2	13.0	13.4	14.4	14.4	16.1	17.0	18.1	17.9
90°	9.4	11.3	13.1	14.9	16.7	18.5	19.8	21.0	22.4	23.6	24.7
92.5°	33.7	35.6	37.8	40.0	42.2	44.4	46.1	47.8	49.5	51.2	52.3
95°	77.2	78.8	81.3	83.9	86.5	89.1	90.9	92.6	94.4	96.3	97.4
97.5°	125.7	127.6	131.2	134.7	138.3	141.8	143.5	145.2	146.9	148.6	149.6
100°	161.9	163.6	166.9	170.3	173.6	177.0	179.3	181.6	183.9	186.2	187.6
102.5°	205.8	207.2	208.9	210.6	212.3	214.0	216.5	219.0	221.5	224.1	225.7
105°	268.9	270.3	271.8	273.4	274.9	276.4	278.0	279.6	281.1	282.6	283.7
107.5°	337.3	338.6	339.7	340.9	342.1	343.3	344.1	344.8	345.6	346.4	346.8
110°	384.5	385.6	386.4	387.1	387.9	388.6	389.4	390.2	390.9	391.7	392.0



TEST NUMBER: P333419-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	430.2	431.1	431.9	432.9	433.9	434.9	435.2	435.6	436.0	436.3	436.3
115°	502.7	503.5	503.9	504.4	505.0	505.5	505.2	505.0	504.7	504.4	504.2
117.5°	571.7	572.1	572.6	573.0	573.5	574.0	574.2	574.4	574.5	574.8	574.4
120°	619.4	620.1	620.4	620.6	620.9	621.2	621.2	621.2	621.2	621.2	620.6
122.5°	664.1	664.8	665.4	666.1	666.7	667.4	667.2	667.0	666.8	666.6	666.1
125°	733.7	734.6	734.9	735.1	735.4	735.7	735.1	734.6	734.1	733.6	733.3
127.5°	800.5	801.0	801.4	801.6	802.0	802.3	802.0	801.7	801.5	801.3	800.8
130°	843.7	844.6	845.2	845.7	846.1	846.7	846.4	846.1	846.0	845.7	845.3
132.5°	888.7	889.7	889.6	889.5	889.4	889.3	889.0	888.8	888.5	888.2	887.8
135°	952.3	953.2	953.5	953.8	954.0	954.3	954.3	954.3	954.3	954.3	953.8
137.5°	1014.1	1015.1	1015.7	1016.3	1016.9	1017.4	1017.7	1018.1	1018.3	1018.7	1018.2
140°	1053.1	1054.1	1054.9	1055.7	1056.4	1057.2	1057.7	1058.3	1058.7	1059.3	1058.9
142.5°	1092.1	1093.1	1094.0	1095.0	1096.0	1097.0	1097.3	1097.6	1098.0	1098.2	1097.8
145°	1150.4	1151.3	1152.1	1152.8	1153.6	1154.4	1154.4	1154.4	1154.4	1154.4	1154.0
147.5°	1202.7	1203.3	1203.9	1204.5	1205.1	1205.8	1206.4	1206.9	1207.6	1208.2	1207.6
150°	1235.5	1235.8	1236.9	1238.0	1238.9	1240.0	1240.0	1240.0	1240.0	1240.0	1239.7
152.5°	1267.6	1267.9	1268.4	1268.7	1269.2	1269.6	1270.2	1270.8	1271.4	1272.0	1271.9
155°	1311.7	1311.8	1312.1	1312.3	1312.6	1312.9	1313.8	1314.9	1315.9	1317.0	1316.8
157.5°	1350.1	1350.0	1350.2	1350.5	1350.8	1351.0	1352.0	1353.1	1354.1	1355.1	1354.8
160°	1373.4	1373.1	1373.4	1373.7	1373.9	1374.1	1375.2	1376.2	1377.2	1378.2	1378.1
162.5°	1395.5	1395.3	1395.3	1395.3	1395.3	1395.4	1396.7	1397.9	1399.1	1400.3	1400.3
165°	1424.2	1424.1	1424.2	1424.5	1424.8	1425.0	1426.1	1427.1	1428.2	1429.1	1428.9
167.5°	1446.2	1445.6	1445.6	1445.6	1445.6	1445.6	1447.2	1448.8	1450.3	1451.8	1451.8
170°	1459.1	1458.6	1458.6	1458.6	1458.6	1458.6	1460.2	1461.7	1463.2	1464.7	1464.6
172.5°	1468.4	1467.8	1467.8	1467.8	1467.8	1467.8	1469.4	1471.0	1472.5	1474.0	1474.0
175°	1478.8	1478.3	1478.3	1478.3	1478.3	1478.3	1479.8	1481.3	1482.9	1484.4	1484.3
177.5°	1484.9	1484.4	1484.2	1484.0	1483.8	1483.5	1484.8	1486.0	1487.3	1488.5	1488.4
180°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1039.4	1042.0	1039.7	1042.8	1039.7	1042.0	1039.4	1041.6	1045.0	1042.8	1047.9
5°	958.0	953.9	956.6	954.8	956.6	953.9	958.0	960.3	965.9	967.7	971.4
7.5°	882.8	878.8	874.3	872.2	874.3	878.8	882.8	884.2	888.9	895.9	901.2
10°	835.8	830.6	830.2	827.0	830.2	830.6	835.8	840.9	844.1	852.9	858.9
12.5°	801.3	796.6	791.3	790.0	791.3	796.6	801.3	805.7	806.6	816.6	820.7
15°	752.4	748.7	745.5	748.2	745.5	748.7	752.4	755.2	760.3	767.2	771.9
17.5°	711.8	708.7	708.1	704.7	708.1	708.7	711.8	713.4	721.7	726.2	734.1
20°	686.2	683.9	684.8	678.8	684.8	683.9	686.2	690.4	698.7	701.1	709.4
22.5°	665.8	661.3	660.8	659.5	660.8	661.3	665.8	669.6	671.3	678.4	684.2
25°	633.9	631.6	629.3	631.6	629.3	631.6	633.9	638.0	639.9	645.0	650.6
27.5°	606.0	603.2	602.6	602.9	602.6	603.2	606.0	605.6	610.6	614.7	618.8
30°	589.0	584.3	584.8	584.3	584.8	584.3	589.0	589.0	591.7	595.5	599.1
32.5°	570.4	567.3	566.7	565.8	566.7	567.3	570.4	569.7	573.2	577.7	581.8
35°	543.1	543.1	540.8	540.8	540.8	543.1	543.1	544.5	548.2	548.2	552.9
37.5°	517.5	517.0	515.6	515.9	515.6	517.0	517.5	518.6	519.9	521.8	524.8
40°	498.2	497.8	496.3	493.6	496.3	497.8	498.2	500.1	501.0	503.3	505.2
42.5°	479.7	478.1	477.5	476.5	477.5	478.1	479.7	480.8	481.3	484.4	488.1
45°	450.5	450.5	449.6	449.2	449.6	450.5	450.5	450.5	451.0	454.7	456.6
47.5°	422.2	423.0	424.8	424.5	424.8	423.0	422.2	421.4	421.6	423.5	425.6
50°	405.1	405.6	407.0	407.4	407.0	405.6	405.1	403.3	402.3	402.3	403.8
52.5°	386.3	389.0	390.7	390.4	390.7	389.0	386.3	384.8	383.1	380.8	383.0
55°	359.8	363.0	366.2	366.8	366.2	363.0	359.8	355.6	353.7	350.1	351.4
57.5°	333.6	338.1	341.5	342.6	341.5	338.1	333.6	328.6	322.5	320.7	318.2
60°	315.8	321.8	326.0	327.8	326.0	321.8	315.8	311.1	303.3	298.2	296.3
62.5°	298.7	305.5	309.7	310.0	309.7	305.5	298.7	291.5	283.7	277.9	274.1
65°	270.9	277.9	281.5	284.3	281.5	277.9	270.9	263.0	254.2	246.3	242.2
67.5°	240.9	247.8	251.9	254.1	251.9	247.8	240.9	231.1	223.1	214.0	209.1
70°	219.0	226.0	231.5	233.4	231.5	226.0	219.0	207.4	200.5	192.2	188.0
72.5°	197.5	203.8	208.2	210.4	208.2	203.8	197.5	186.7	178.6	170.3	164.6
75°	160.2	168.5	172.7	175.0	172.7	168.5	160.2	154.2	144.9	136.2	131.5
77.5°	123.5	131.2	133.7	134.8	133.7	131.2	123.5	116.5	109.5	103.1	98.5
80°	99.1	103.7	106.9	107.5	106.9	103.7	99.1	93.5	88.0	81.9	77.8
82.5°	76.2	80.0	81.1	82.2	81.1	80.0	76.2	71.3	66.5	62.0	58.5
85°	41.6	43.5	44.0	43.5	44.0	43.5	41.6	38.4	36.1	33.8	32.4
87.5°	18.8	18.5	18.7	19.6	18.7	18.5	18.8	17.9	18.1	17.0	16.1
90°	25.4	26.2	27.0	27.7	27.0	26.2	25.4	24.7	23.6	22.4	21.0
92.5°	52.9	53.5	54.0	54.6	54.0	53.5	52.9	52.3	51.2	49.5	47.8
95°	97.9	98.4	99.0	99.5	99.0	98.4	97.9	97.4	96.3	94.4	92.6
97.5°	149.9	150.3	150.5	150.9	150.5	150.3	149.9	149.6	148.6	146.9	145.2
100°	188.2	188.7	189.2	189.7	189.2	188.7	188.2	187.6	186.2	183.9	181.6
102.5°	226.4	227.1	227.8	228.5	227.8	227.1	226.4	225.7	224.1	221.5	219.0
105°	284.5	285.3	286.1	286.9	286.1	285.3	284.5	283.7	282.6	281.1	279.6
107.5°	346.7	346.6	346.6	346.5	346.6	346.6	346.7	346.8	346.4	345.6	344.8
110°	391.7	391.5	391.2	390.9	391.2	391.5	391.7	392.0	391.7	390.9	390.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	435.9	435.4	434.9	434.4	434.9	435.4	435.9	436.3	436.3	436.0	435.6
115°	503.9	503.6	503.5	503.2	503.5	503.6	503.9	504.2	504.4	504.7	505.0
117.5°	573.4	572.3	571.3	570.2	571.3	572.3	573.4	574.4	574.8	574.5	574.4
120°	619.6	618.6	617.5	616.5	617.5	618.6	619.6	620.6	621.2	621.2	621.2
122.5°	665.2	664.4	663.6	662.8	663.6	664.4	665.2	666.1	666.6	666.8	667.0
125°	733.0	732.7	732.5	732.2	732.5	732.7	733.0	733.3	733.6	734.1	734.6
127.5°	800.4	799.9	799.3	798.8	799.3	799.9	800.4	800.8	801.3	801.5	801.7
130°	844.8	844.3	843.7	843.2	843.7	844.3	844.8	845.3	845.7	846.0	846.1
132.5°	887.1	886.3	885.6	884.8	885.6	886.3	887.1	887.8	888.2	888.5	888.8
135°	952.7	951.7	950.7	949.7	950.7	951.7	952.7	953.8	954.3	954.3	954.3
137.5°	1016.9	1015.6	1014.3	1013.1	1014.3	1015.6	1016.9	1018.2	1018.7	1018.3	1018.1
140°	1057.6	1056.3	1055.1	1053.7	1055.1	1056.3	1057.6	1058.9	1059.3	1058.7	1058.3
142.5°	1096.4	1095.2	1093.9	1092.6	1093.9	1095.2	1096.4	1097.8	1098.2	1098.0	1097.6
145°	1153.2	1152.4	1151.6	1150.9	1151.6	1152.4	1153.2	1154.0	1154.4	1154.4	1154.4
147.5°	1205.9	1204.2	1202.4	1200.7	1202.4	1204.2	1205.9	1207.6	1208.2	1207.6	1206.9
150°	1239.2	1238.7	1238.1	1237.7	1238.1	1238.7	1239.2	1239.7	1240.0	1240.0	1240.0
152.5°	1271.0	1270.1	1269.1	1268.2	1269.1	1270.1	1271.0	1271.9	1272.0	1271.4	1270.8
155°	1315.5	1314.3	1313.0	1311.7	1313.0	1314.3	1315.5	1316.8	1317.0	1315.9	1314.9
157.5°	1353.1	1351.4	1349.7	1348.0	1349.7	1351.4	1353.1	1354.8	1355.1	1354.1	1353.1
160°	1376.9	1375.6	1374.3	1373.0	1374.3	1375.6	1376.9	1378.1	1378.2	1377.2	1376.2
162.5°	1398.7	1397.2	1395.8	1394.3	1395.8	1397.2	1398.7	1400.3	1400.3	1399.1	1397.9
165°	1427.4	1425.8	1424.2	1422.7	1424.2	1425.8	1427.4	1428.9	1429.1	1428.2	1427.1
167.5°	1450.2	1448.6	1447.0	1445.4	1447.0	1448.6	1450.2	1451.8	1451.8	1450.3	1448.8
170°	1462.9	1461.1	1459.2	1457.4	1459.2	1461.1	1462.9	1464.6	1464.7	1463.2	1461.7
172.5°	1472.4	1470.8	1469.2	1467.6	1469.2	1470.8	1472.4	1474.0	1474.0	1472.5	1471.0
175°	1482.5	1480.7	1478.9	1477.1	1478.9	1480.7	1482.5	1484.3	1484.4	1482.9	1481.3
177.5°	1486.9	1485.5	1484.1	1482.6	1484.1	1485.5	1486.9	1488.4	1488.5	1487.3	1486.0
180°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1043.1	1047.6	1053.1	1057.2	1064.6	1067.9	1072.0	1075.3	1081.3	1086.8	1093.5
5°	972.9	980.7	991.3	1002.9	1016.4	1025.6	1038.6	1046.4	1062.2	1076.6	1090.4
7.5°	909.1	918.7	933.8	948.7	966.3	982.1	998.4	1016.4	1036.4	1060.2	1079.8
10°	865.4	878.3	894.6	913.1	934.4	952.9	974.6	994.1	1018.7	1046.4	1072.4
12.5°	830.5	841.7	859.8	877.5	900.3	922.9	945.4	971.2	999.8	1030.6	1063.1
15°	782.5	791.8	806.6	831.2	854.3	876.6	910.3	934.4	970.5	1004.8	1044.1
17.5°	741.5	753.0	765.4	786.5	810.5	838.3	868.4	898.7	933.4	976.9	1021.3
20°	716.3	725.6	739.9	756.1	781.6	809.4	838.1	868.6	911.2	956.2	1003.8
22.5°	688.8	698.9	715.1	732.8	754.2	780.9	812.5	846.1	890.5	934.7	986.4
25°	656.6	663.5	678.3	694.1	715.4	738.1	771.0	808.0	851.9	902.4	955.2
27.5°	626.1	632.2	645.8	659.4	678.7	705.6	735.0	772.4	813.9	865.0	923.5
30°	604.2	610.7	622.8	637.6	656.1	679.8	709.8	745.0	789.4	839.5	900.6
32.5°	585.3	591.1	600.2	615.0	633.1	656.0	683.9	719.8	764.3	815.0	875.0
35°	556.1	562.6	569.5	581.1	596.8	619.0	649.6	683.4	726.0	775.1	830.2
37.5°	527.0	534.0	540.3	550.6	565.0	584.6	611.0	646.2	684.7	732.0	784.9
40°	508.9	514.4	519.5	530.7	545.0	563.5	588.1	619.6	660.3	704.3	748.2
42.5°	490.7	495.9	500.2	509.9	523.2	540.9	564.4	595.0	632.8	673.9	712.7
45°	462.1	465.4	470.5	478.8	489.5	505.6	528.3	555.6	587.5	626.5	655.7
47.5°	431.1	436.2	440.4	447.7	456.5	472.3	494.1	517.4	546.4	575.2	595.8
50°	407.4	412.6	418.6	425.5	433.8	448.7	468.6	492.2	516.7	539.0	556.5
52.5°	385.2	389.9	396.4	403.0	413.1	425.7	442.6	463.7	487.9	503.8	518.4
55°	352.4	354.6	362.1	368.5	378.3	387.5	404.7	423.2	438.0	450.0	462.1
57.5°	318.8	321.9	326.2	332.0	341.6	352.5	364.5	380.8	389.6	395.8	405.1
60°	297.3	298.2	301.0	307.9	315.3	325.0	338.9	350.5	357.0	362.1	370.0
62.5°	273.6	273.8	278.4	283.5	289.0	299.5	310.8	320.1	325.5	328.0	335.6
65°	240.3	239.4	242.2	246.3	252.8	259.8	269.5	277.9	277.3	280.1	284.7
67.5°	206.3	205.4	205.4	209.4	214.6	220.9	227.6	232.4	232.5	236.1	238.4
70°	183.3	180.6	182.4	185.7	188.0	193.1	200.5	202.3	202.8	204.6	207.0
72.5°	159.6	158.7	160.2	161.6	163.2	167.2	173.4	174.6	174.7	175.8	179.6
75°	126.9	125.9	125.0	126.4	128.2	131.0	133.3	135.2	134.7	135.2	137.9
77.5°	95.1	92.5	92.0	92.8	93.3	94.9	97.3	97.1	97.6	97.6	100.7
80°	75.4	71.8	71.3	71.3	71.8	72.7	73.7	74.5	73.1	74.5	75.4
82.5°	55.5	53.2	53.1	52.8	52.9	53.1	53.6	54.2	53.9	54.6	55.1
85°	30.6	29.6	28.3	29.2	28.7	27.3	28.3	26.8	26.4	26.8	27.3
87.5°	14.4	14.4	13.4	13.0	12.2	12.3	11.1	10.3	9.5	9.5	10.3
90°	19.8	18.5	16.7	14.9	13.1	11.3	9.4	7.3	5.3	3.2	1.2
92.5°	46.1	44.4	42.2	40.0	37.8	35.6	33.7	32.3	30.9	29.4	28.0
95°	90.9	89.1	86.5	83.9	81.3	78.8	77.2	76.7	76.2	75.7	75.2
97.5°	143.5	141.8	138.3	134.7	131.2	127.6	125.7	125.6	125.4	125.1	124.9
100°	179.3	177.0	173.6	170.3	166.9	163.6	161.9	161.9	161.9	161.9	161.9
102.5°	216.5	214.0	212.3	210.6	208.9	207.2	205.8	204.8	203.8	202.8	201.7
105°	278.0	276.4	274.9	273.4	271.8	270.3	268.9	267.6	266.3	265.0	263.8
107.5°	344.1	343.3	342.1	340.9	339.7	338.6	337.3	336.1	334.7	333.5	332.2
110°	389.4	388.6	387.9	387.1	386.4	385.6	384.5	383.3	382.0	380.7	379.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	435.2	434.9	433.9	432.9	431.9	431.1	430.2	429.5	428.8	428.2	427.5
115°	505.2	505.5	505.0	504.4	503.9	503.5	502.7	501.6	500.6	499.5	498.6
117.5°	574.2	574.0	573.5	573.0	572.6	572.1	571.7	571.1	570.7	570.2	569.8
120°	621.2	621.2	620.9	620.6	620.4	620.1	619.4	618.0	616.8	615.5	614.2
122.5°	667.2	667.4	666.7	666.1	665.4	664.8	664.1	663.7	663.3	662.8	662.4
125°	735.1	735.7	735.4	735.1	734.9	734.6	733.7	732.2	730.7	729.1	727.5
127.5°	802.0	802.3	802.0	801.6	801.4	801.0	800.5	799.6	798.7	797.8	796.9
130°	846.4	846.7	846.1	845.7	845.2	844.6	843.7	842.5	841.2	839.9	838.6
132.5°	889.0	889.3	889.4	889.5	889.6	889.7	888.7	886.5	884.5	882.3	880.2
135°	954.3	954.3	954.0	953.8	953.5	953.2	952.3	950.8	949.2	947.7	946.2
137.5°	1017.7	1017.4	1016.9	1016.3	1015.7	1015.1	1014.1	1012.6	1011.2	1009.7	1008.2
140°	1057.7	1057.2	1056.4	1055.7	1054.9	1054.1	1053.1	1051.9	1050.5	1049.3	1047.9
142.5°	1097.3	1097.0	1096.0	1095.0	1094.0	1093.1	1092.1	1091.0	1089.9	1088.9	1087.8
145°	1154.4	1154.4	1153.6	1152.8	1152.1	1151.3	1150.4	1149.3	1148.3	1147.3	1146.3
147.5°	1206.4	1205.8	1205.1	1204.5	1203.9	1203.3	1202.7	1202.1	1201.6	1201.0	1200.4
150°	1240.0	1240.0	1238.9	1238.0	1236.9	1235.8	1235.5	1235.7	1236.0	1236.3	1236.5
152.5°	1270.2	1269.6	1269.2	1268.7	1268.4	1267.9	1267.6	1267.2	1266.9	1266.5	1266.1
155°	1313.8	1312.9	1312.6	1312.3	1312.1	1311.8	1311.7	1311.7	1311.7	1311.7	1311.7
157.5°	1352.0	1351.0	1350.8	1350.5	1350.2	1350.0	1350.1	1350.7	1351.3	1351.8	1352.4
160°	1375.2	1374.1	1373.9	1373.7	1373.4	1373.1	1373.4	1374.1	1374.9	1375.7	1376.4
162.5°	1396.7	1395.4	1395.3	1395.3	1395.3	1395.3	1395.5	1396.1	1396.6	1397.2	1397.8
165°	1426.1	1425.0	1424.8	1424.5	1424.2	1424.1	1424.2	1424.7	1425.1	1425.7	1426.2
167.5°	1447.2	1445.6	1445.6	1445.6	1445.6	1445.6	1446.2	1447.2	1448.2	1449.2	1450.3
170°	1460.2	1458.6	1458.6	1458.6	1458.6	1458.6	1459.1	1460.2	1461.2	1462.2	1463.2
172.5°	1469.4	1467.8	1467.8	1467.8	1467.8	1467.8	1468.4	1469.4	1470.4	1471.4	1472.5
175°	1479.8	1478.3	1478.3	1478.3	1478.3	1478.3	1478.8	1479.8	1480.9	1481.8	1482.9
177.5°	1484.8	1483.5	1483.8	1484.0	1484.2	1484.4	1484.9	1485.8	1486.6	1487.4	1488.2
180°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1096.8	1102.0	1105.4	1111.6	1116.8	1119.8	1122.4	1124.6	1127.2	1129.4	1135.7
5°	1103.8	1115.9	1126.1	1141.8	1156.2	1167.2	1179.3	1190.0	1198.8	1211.3	1221.0
7.5°	1100.8	1122.2	1144.6	1168.9	1193.8	1217.0	1238.3	1258.2	1276.3	1298.2	1317.3
10°	1097.9	1127.0	1155.7	1188.6	1222.4	1251.1	1277.9	1305.3	1325.2	1353.0	1376.5
12.5°	1095.6	1130.0	1164.6	1204.2	1241.3	1281.8	1317.6	1337.5	1367.8	1390.0	1418.1
15°	1086.3	1131.7	1179.3	1223.8	1276.6	1314.0	1345.6	1384.5	1412.6	1440.9	1471.5
17.5°	1069.5	1120.9	1174.2	1232.5	1283.2	1323.4	1364.0	1401.5	1435.2	1473.1	1511.1
20°	1061.8	1113.1	1174.2	1233.9	1283.5	1325.6	1367.3	1408.5	1445.6	1494.2	1538.2
22.5°	1045.4	1107.6	1163.9	1222.1	1273.1	1319.0	1366.2	1413.0	1462.2	1517.2	1572.3
25°	1016.4	1079.3	1139.1	1196.5	1247.9	1305.3	1355.8	1418.3	1481.2	1553.9	1622.5
27.5°	986.1	1046.4	1101.2	1156.6	1216.6	1281.6	1347.0	1418.0	1500.4	1592.1	1688.8
30°	961.7	1018.7	1071.9	1128.8	1191.3	1264.5	1336.3	1420.6	1515.9	1619.2	1734.0
32.5°	933.2	985.7	1037.4	1097.8	1165.8	1243.0	1326.7	1419.1	1533.7	1651.1	1769.2
35°	884.4	928.4	981.6	1046.0	1122.8	1211.3	1308.1	1417.3	1548.8	1683.6	1783.2
37.5°	826.5	867.5	923.5	994.1	1074.7	1169.6	1284.4	1414.1	1553.7	1661.2	1693.3
40°	787.6	825.5	884.0	957.1	1039.5	1140.0	1265.9	1402.9	1538.2	1606.7	1580.3
42.5°	746.1	786.0	842.8	915.3	1004.0	1113.3	1242.6	1379.7	1493.0	1518.9	1427.7
45°	680.6	721.8	777.8	851.0	946.5	1065.0	1199.7	1324.3	1389.6	1342.7	1201.6
47.5°	619.8	658.4	710.3	785.9	884.3	1006.9	1136.7	1236.0	1241.2	1129.6	978.7
50°	578.4	613.9	666.3	741.7	839.5	963.6	1080.7	1159.0	1123.7	997.4	852.4
52.5°	537.6	572.5	624.1	698.8	795.4	909.1	1018.1	1073.0	1006.7	877.0	753.1
55°	478.8	509.3	559.8	628.7	720.5	826.1	918.6	937.6	851.5	723.7	623.2
57.5°	421.3	449.9	495.8	559.4	643.1	736.6	809.0	805.0	714.0	604.3	524.6
60°	382.5	410.3	451.0	513.0	589.4	670.0	732.0	717.2	627.0	532.4	465.4
62.5°	347.7	372.5	411.0	465.2	534.9	609.7	660.6	638.7	550.3	467.6	414.6
65°	296.3	317.2	350.1	396.4	454.2	515.9	555.2	526.9	451.5	387.1	344.5
67.5°	247.4	264.0	291.6	328.6	377.9	427.4	451.4	422.9	362.6	315.6	284.0
70°	216.2	231.0	252.4	285.3	328.3	370.0	388.0	362.6	310.7	270.4	247.7
72.5°	185.1	197.3	216.1	245.6	280.1	316.3	332.1	307.7	265.1	231.1	209.9
75°	143.1	151.4	164.3	184.8	212.0	240.8	249.6	228.3	201.0	175.5	161.6
77.5°	102.5	109.5	119.3	132.2	151.5	169.8	177.5	165.1	144.0	127.9	116.5
80°	78.7	82.4	90.8	101.4	116.7	128.2	133.3	125.5	110.7	98.6	89.8
82.5°	56.1	59.8	64.8	73.7	83.4	91.2	96.7	91.4	80.7	71.2	66.1
85°	27.3	29.6	32.4	36.1	43.5	48.2	47.7	44.4	40.3	36.6	33.8
87.5°	10.3	11.1	12.6	14.8	16.3	18.2	19.3	18.9	17.7	16.9	16.1
90°	3.2	5.3	7.3	9.4	11.3	13.1	14.9	16.7	18.5	19.8	21.0
92.5°	29.4	30.9	32.3	33.7	35.6	37.8	40.0	42.2	44.4	46.1	47.8
95°	75.7	76.2	76.7	77.2	78.8	81.3	83.9	86.5	89.1	90.9	92.6
97.5°	125.1	125.4	125.6	125.7	127.6	131.2	134.7	138.3	141.8	143.5	145.2
100°	161.9	161.9	161.9	161.9	163.6	166.9	170.3	173.6	177.0	179.3	181.6
102.5°	202.8	203.8	204.8	205.8	207.2	208.9	210.6	212.3	214.0	216.5	219.0
105°	265.0	266.3	267.6	268.9	270.3	271.8	273.4	274.9	276.4	278.0	279.6
107.5°	333.5	334.7	336.1	337.3	338.6	339.7	340.9	342.1	343.3	344.1	344.8
110°	380.7	382.0	383.3	384.5	385.6	386.4	387.1	387.9	388.6	389.4	390.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	428.2	428.8	429.5	430.2	431.1	431.9	432.9	433.9	434.9	435.2	435.6
115°	499.5	500.6	501.6	502.7	503.5	503.9	504.4	505.0	505.5	505.2	505.0
117.5°	570.2	570.7	571.1	571.7	572.1	572.6	573.0	573.5	574.0	574.2	574.4
120°	615.5	616.8	618.0	619.4	620.1	620.4	620.6	620.9	621.2	621.2	621.2
122.5°	662.8	663.3	663.7	664.1	664.8	665.4	666.1	666.7	667.4	667.2	667.0
125°	729.1	730.7	732.2	733.7	734.6	734.9	735.1	735.4	735.7	735.1	734.6
127.5°	797.8	798.7	799.6	800.5	801.0	801.4	801.6	802.0	802.3	802.0	801.7
130°	839.9	841.2	842.5	843.7	844.6	845.2	845.7	846.1	846.7	846.4	846.1
132.5°	882.3	884.5	886.5	888.7	889.7	889.6	889.5	889.4	889.3	889.0	888.8
135°	947.7	949.2	950.8	952.3	953.2	953.5	953.8	954.0	954.3	954.3	954.3
137.5°	1009.7	1011.2	1012.6	1014.1	1015.1	1015.7	1016.3	1016.9	1017.4	1017.7	1018.1
140°	1049.3	1050.5	1051.9	1053.1	1054.1	1054.9	1055.7	1056.4	1057.2	1057.7	1058.3
142.5°	1088.9	1089.9	1091.0	1092.1	1093.1	1094.0	1095.0	1096.0	1097.0	1097.3	1097.6
145°	1147.3	1148.3	1149.3	1150.4	1151.3	1152.1	1152.8	1153.6	1154.4	1154.4	1154.4
147.5°	1201.0	1201.6	1202.1	1202.7	1203.3	1203.9	1204.5	1205.1	1205.8	1206.4	1206.9
150°	1236.3	1236.0	1235.7	1235.5	1235.8	1236.9	1238.0	1238.9	1240.0	1240.0	1240.0
152.5°	1266.5	1266.9	1267.2	1267.6	1267.9	1268.4	1268.7	1269.2	1269.6	1270.2	1270.8
155°	1311.7	1311.7	1311.7	1311.7	1311.8	1312.1	1312.3	1312.6	1312.9	1313.8	1314.9
157.5°	1351.8	1351.3	1350.7	1350.1	1350.0	1350.2	1350.5	1350.8	1351.0	1352.0	1353.1
160°	1375.7	1374.9	1374.1	1373.4	1373.1	1373.4	1373.7	1373.9	1374.1	1375.2	1376.2
162.5°	1397.2	1396.6	1396.1	1395.5	1395.3	1395.3	1395.3	1395.3	1395.4	1396.7	1397.9
165°	1425.7	1425.1	1424.7	1424.2	1424.1	1424.2	1424.5	1424.8	1425.0	1426.1	1427.1
167.5°	1449.2	1448.2	1447.2	1446.2	1445.6	1445.6	1445.6	1445.6	1445.6	1447.2	1448.8
170°	1462.2	1461.2	1460.2	1459.1	1458.6	1458.6	1458.6	1458.6	1458.6	1460.2	1461.7
172.5°	1471.4	1470.4	1469.4	1468.4	1467.8	1467.8	1467.8	1467.8	1467.8	1469.4	1471.0
175°	1481.8	1480.9	1479.8	1478.8	1478.3	1478.3	1478.3	1478.3	1478.3	1479.8	1481.3
177.5°	1487.4	1486.6	1485.8	1484.9	1484.4	1484.2	1484.0	1483.8	1483.5	1484.8	1486.0
180°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1140.9	1143.9	1150.1	1147.9	1150.9	1152.4	1153.9
5°	1233.1	1247.9	1254.4	1253.4	1263.1	1260.8	1258.5
7.5°	1337.1	1352.7	1361.4	1372.3	1378.5	1378.9	1384.5
10°	1396.1	1416.4	1424.8	1436.3	1443.7	1447.9	1447.4
12.5°	1441.2	1457.1	1475.9	1481.5	1491.5	1496.7	1494.9
15°	1495.6	1521.1	1540.5	1550.2	1562.7	1566.4	1571.6
17.5°	1544.1	1578.2	1601.0	1631.1	1642.5	1649.5	1645.4
20°	1580.7	1625.7	1648.4	1684.5	1704.4	1715.0	1711.4
22.5°	1624.1	1672.8	1714.7	1746.0	1776.3	1790.6	1793.6
25°	1698.4	1765.1	1826.7	1867.9	1905.3	1914.1	1933.6
27.5°	1781.4	1860.0	1925.8	1969.2	1995.3	2005.1	2011.2
30°	1833.6	1911.8	1961.4	1989.1	1997.5	1996.5	1995.6
32.5°	1859.1	1908.2	1917.6	1909.9	1890.8	1874.7	1857.9
35°	1822.9	1786.4	1731.7	1661.3	1609.4	1557.2	1552.0
37.5°	1639.5	1522.5	1431.6	1330.0	1271.4	1235.2	1210.1
40°	1466.9	1334.0	1223.8	1138.1	1078.3	1054.8	1031.6
42.5°	1279.4	1152.4	1054.9	983.3	938.3	912.1	893.9
45°	1039.5	927.5	851.0	799.2	763.6	743.2	731.6
47.5°	851.8	768.9	704.0	666.6	641.9	626.1	626.2
50°	751.0	671.8	628.7	599.1	577.8	565.3	567.7
52.5°	661.7	602.6	565.8	541.0	525.2	517.5	517.3
55°	553.3	510.7	486.6	468.6	457.9	449.2	451.0
57.5°	473.3	437.4	421.2	406.3	398.9	395.3	390.2
60°	423.7	395.9	382.0	370.0	362.6	359.8	354.6
62.5°	379.6	357.8	344.2	334.4	327.7	326.8	322.8
65°	319.1	302.4	290.3	285.7	278.7	276.9	276.9
67.5°	263.0	251.0	241.7	237.5	234.3	234.9	232.6
70°	227.8	218.1	212.0	207.4	205.1	205.5	203.8
72.5°	199.3	188.4	183.2	180.4	177.4	178.5	177.8
75°	151.0	145.3	142.6	139.8	137.9	137.1	136.2
77.5°	110.8	105.9	103.8	102.3	102.5	100.3	102.0
80°	85.7	81.5	80.1	77.8	77.3	77.3	76.9
82.5°	62.7	60.4	59.4	57.4	56.6	57.3	56.1
85°	32.4	30.6	30.1	30.1	29.2	28.3	30.6
87.5°	16.3	15.1	15.3	15.1	15.2	15.1	14.4
90°	22.4	23.6	24.7	25.4	26.2	27.0	27.7
92.5°	49.5	51.2	52.3	52.9	53.5	54.0	54.6
95°	94.4	96.3	97.4	97.9	98.4	99.0	99.5
97.5°	146.9	148.6	149.6	149.9	150.3	150.5	150.9
100°	183.9	186.2	187.6	188.2	188.7	189.2	189.7
102.5°	221.5	224.1	225.7	226.4	227.1	227.8	228.5
105°	281.1	282.6	283.7	284.5	285.3	286.1	286.9
107.5°	345.6	346.4	346.8	346.7	346.6	346.6	346.5
110°	390.9	391.7	392.0	391.7	391.5	391.2	390.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	436.0	436.3	436.3	435.9	435.4	434.9	434.4
115°	504.7	504.4	504.2	503.9	503.6	503.5	503.2
117.5°	574.5	574.8	574.4	573.4	572.3	571.3	570.2
120°	621.2	621.2	620.6	619.6	618.6	617.5	616.5
122.5°	666.8	666.6	666.1	665.2	664.4	663.6	662.8
125°	734.1	733.6	733.3	733.0	732.7	732.5	732.2
127.5°	801.5	801.3	800.8	800.4	799.9	799.3	798.8
130°	846.0	845.7	845.3	844.8	844.3	843.7	843.2
132.5°	888.5	888.2	887.8	887.1	886.3	885.6	884.8
135°	954.3	954.3	953.8	952.7	951.7	950.7	949.7
137.5°	1018.3	1018.7	1018.2	1016.9	1015.6	1014.3	1013.1
140°	1058.7	1059.3	1058.9	1057.6	1056.3	1055.1	1053.7
142.5°	1098.0	1098.2	1097.8	1096.4	1095.2	1093.9	1092.6
145°	1154.4	1154.4	1154.0	1153.2	1152.4	1151.6	1150.9
147.5°	1207.6	1208.2	1207.6	1205.9	1204.2	1202.4	1200.7
150°	1240.0	1240.0	1239.7	1239.2	1238.7	1238.1	1237.7
152.5°	1271.4	1272.0	1271.9	1271.0	1270.1	1269.1	1268.2
155°	1315.9	1317.0	1316.8	1315.5	1314.3	1313.0	1311.7
157.5°	1354.1	1355.1	1354.8	1353.1	1351.4	1349.7	1348.0
160°	1377.2	1378.2	1378.1	1376.9	1375.6	1374.3	1373.0
162.5°	1399.1	1400.3	1400.3	1398.7	1397.2	1395.8	1394.3
165°	1428.2	1429.1	1428.9	1427.4	1425.8	1424.2	1422.7
167.5°	1450.3	1451.8	1451.8	1450.2	1448.6	1447.0	1445.4
170°	1463.2	1464.7	1464.6	1462.9	1461.1	1459.2	1457.4
172.5°	1472.5	1474.0	1474.0	1472.4	1470.8	1469.2	1467.6
175°	1482.9	1484.4	1484.3	1482.5	1480.7	1478.9	1477.1
177.5°	1487.3	1488.5	1488.4	1486.9	1485.5	1484.1	1482.6
180°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4

(END OF REPORT)