

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: P331520-840

Luminaire Tested: **S122DIW-S485D1440U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331520-840
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-S485D1440U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 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: 7216.7 lumens
Efficiency: N/A
Efficacy: 119.1 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

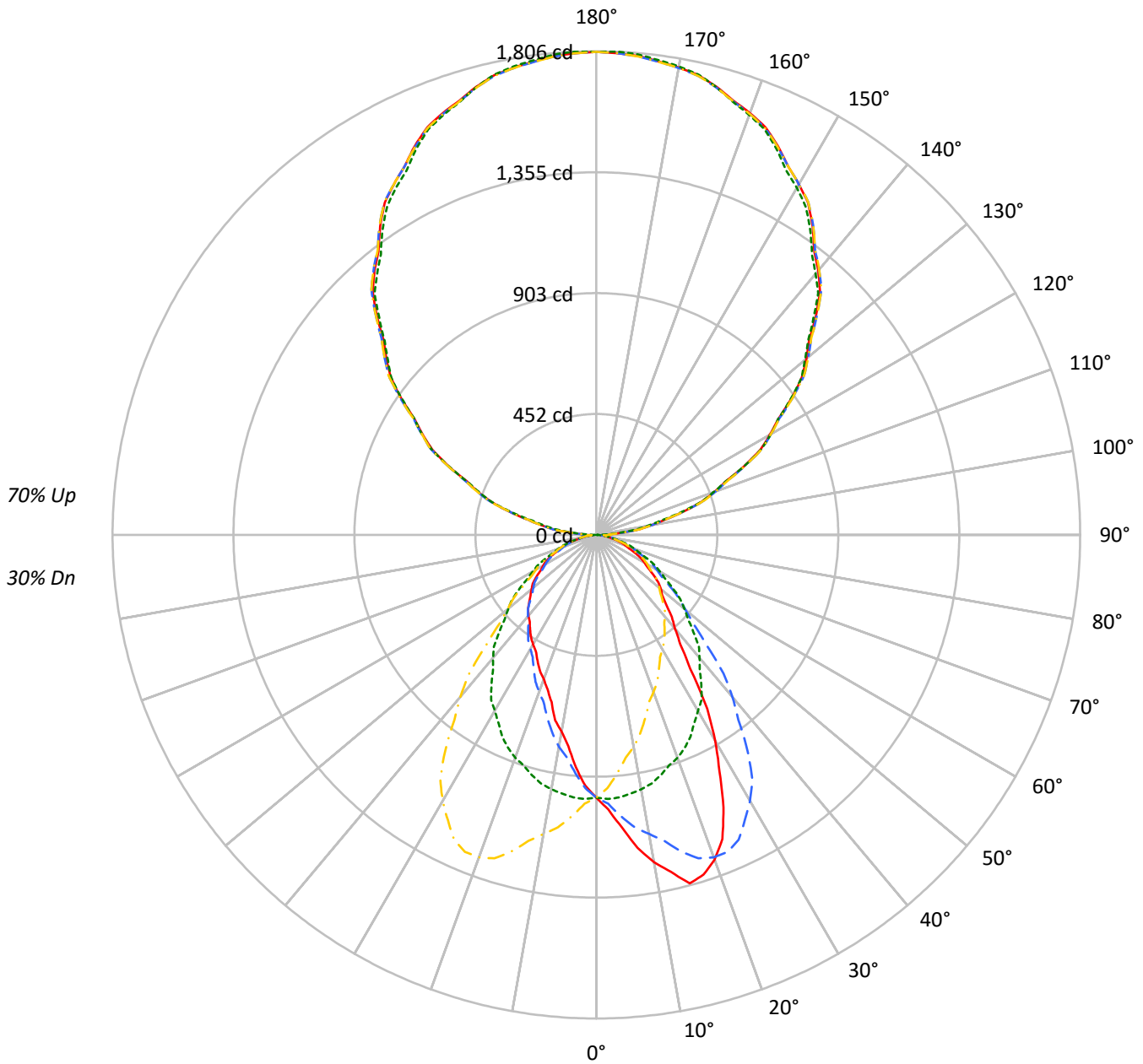
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	89	86	83	84	80	77	75	64	62	60	48	47	46	34	33	32	26
2	85	78	73	68	76	71	66	62	56	53	50	43	40	39	30	29	28	22
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	55	47	41	59	49	43	38	40	35	31	30	27	25	22	20	18	15
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15	12
8	52	40	33	28	46	36	30	25	29	25	21	23	20	17	17	15	13	11
9	48	36	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12	10
10	45	33	27	22	40	30	24	20	25	20	17	20	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15844	15844	15844	15844
5°	17763	15948	14131	15948
10°	20354	15816	12231	15816
15°	22519	15527	10805	15527
20°	22175	15216	9850	15216
25°	19996	14801	9246	14801
30°	16524	14139	8804	14139
35°	12043	13448	8489	13448
40°	9619	12631	8315	12631
45°	8405	11686	8079	11686
50°	7902	10771	7920	10771
55°	7282	9841	7707	9841
60°	6675	8854	7379	8854
65°	6082	7966	7060	7966
70°	5519	7105	6590	7105
75°	4897	6145	5833	6145
80°	4203	5086	4695	5086
85°	3779	3779	2779	3779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.3
10°-20°	271.7	3.8
20°-30°	394.3	5.5
30°-40°	416.1	5.8
40°-50°	368.4	5.1
50°-60°	294.0	4.1
60°-70°	199.8	2.8
70°-80°	102.5	1.4
80°-90°	31.9	0.4
90°-100°	114.3	1.6
100°-110°	355.0	4.9
110°-120°	606.9	8.4
120°-130°	798.1	11.1
130°-140°	895.8	12.4
140°-150°	878.3	12.2
150°-160°	736.7	10.2
160°-170°	488.6	6.8
170°-180°	170.8	2.4
0°-30°	759.5	10.5
0°-40°	1175.6	16.3
0°-60°	1838.0	25.5
0°-90°	2172.2	30.1
90°-120°	1076.2	14.9
90°-150°	3648.4	50.6
90°-180°	5045.0	69.9
0°-180°	7216.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	981	981	981	981	981	
5°	1096	984	872	984	1096	109
15°	1347	929	646	929	1347	372
25°	1122	831	519	831	1122	507
35°	611	682	431	682	611	397
45°	368	512	354	512	368	289
55°	259	350	274	350	259	232
65°	159	208	185	208	159	158
75°	78	98	94	98	78	84
85°	20	20	15	20	20	24
90°	52	2	52	2	52	23
95°	94	79	94	79	94	105
105°	338	327	338	327	338	355
115°	609	609	609	609	609	601
125°	889	886	889	886	889	793
135°	1160	1146	1160	1146	1160	893
145°	1407	1392	1407	1392	1407	878
155°	1603	1591	1603	1591	1603	738
165°	1732	1731	1732	1731	1732	489
175°	1795	1801	1795	1801	1795	171
180°	1804	1804	1804	1804	1804	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1026.6	1026.9	1027.4	1022.7	1022.1	1022.1	1017.8	1014.2	1010.0	1004.2	1004.8
5°	1096.0	1100.1	1101.7	1097.1	1090.4	1089.5	1083.2	1072.6	1062.8	1054.9	1049.2
7.5°	1178.8	1180.4	1176.8	1170.8	1165.8	1156.7	1144.8	1133.1	1116.7	1101.7	1090.6
10°	1241.5	1243.9	1237.4	1228.7	1221.5	1211.0	1193.7	1175.9	1154.5	1133.7	1117.1
12.5°	1289.2	1294.8	1286.6	1285.5	1273.1	1258.7	1238.0	1229.0	1198.8	1169.9	1152.1
15°	1347.2	1346.8	1347.6	1340.4	1331.3	1329.1	1307.2	1283.4	1240.8	1223.9	1194.4
17.5°	1330.4	1336.2	1338.8	1338.7	1338.5	1337.1	1330.0	1315.0	1293.6	1266.2	1232.2
20°	1290.6	1298.1	1299.3	1308.0	1312.8	1319.3	1321.9	1317.8	1304.5	1281.5	1252.1
22.5°	1229.0	1231.1	1234.7	1248.2	1258.8	1274.9	1283.2	1297.2	1292.1	1280.9	1256.4
25°	1122.4	1118.6	1131.8	1138.6	1163.1	1188.7	1207.2	1227.6	1245.7	1256.7	1249.5
27.5°	994.3	988.7	1008.5	1026.4	1046.3	1074.1	1102.9	1136.9	1165.2	1200.6	1212.7
30°	886.3	889.7	908.6	927.8	958.0	997.1	1029.6	1066.9	1107.3	1146.9	1174.4
32.5°	769.8	782.8	794.8	824.3	850.8	894.5	942.1	988.8	1039.2	1084.1	1126.7
35°	611.0	626.0	642.7	664.2	701.5	744.9	791.2	854.2	922.9	984.3	1034.9
37.5°	514.2	511.9	521.4	536.9	567.1	602.2	655.5	717.8	798.6	870.8	942.1
40°	456.4	454.8	461.6	475.9	499.0	524.6	571.4	626.0	701.1	789.3	874.2
42.5°	416.5	417.4	421.2	431.3	447.1	468.2	503.2	549.8	618.4	701.6	792.7
45°	368.1	370.7	374.9	379.8	388.8	406.2	425.8	459.0	513.3	582.7	672.5
47.5°	333.3	333.4	337.5	341.8	347.2	357.0	373.0	393.8	432.1	488.7	565.8
50°	314.6	311.8	314.9	318.3	324.0	330.7	341.3	360.9	386.6	432.2	496.7
52.5°	291.6	291.6	294.4	295.7	300.7	307.5	317.2	330.7	354.0	389.7	442.7
55°	258.7	260.6	262.2	264.4	268.9	273.8	281.3	290.4	308.5	335.3	374.5
57.5°	227.8	228.4	229.9	234.2	237.1	241.6	248.7	257.0	268.7	288.6	318.1
60°	206.7	206.7	209.6	211.6	215.3	219.8	225.5	233.5	244.0	260.2	284.0
62.5°	187.3	187.0	188.2	191.4	194.2	198.4	204.1	210.9	220.8	235.2	254.7
65°	159.2	158.4	160.7	161.4	164.4	168.5	173.1	180.3	188.2	198.7	216.1
67.5°	132.0	132.9	134.1	135.5	137.2	141.6	144.6	149.7	156.3	165.1	176.9
70°	116.9	116.9	116.9	118.1	120.3	122.6	125.6	129.8	136.1	143.7	154.2
72.5°	100.0	101.2	102.4	101.8	104.6	105.9	109.6	111.9	118.1	122.9	132.2
75°	78.5	78.5	78.5	80.3	81.5	82.6	84.8	87.2	90.2	96.1	101.1
77.5°	58.6	58.4	58.8	59.2	60.4	61.8	62.4	64.5	67.3	70.1	74.2
80°	45.2	46.0	46.4	47.2	47.2	47.9	48.3	50.9	52.8	54.7	57.4
82.5°	35.0	35.1	35.2	35.3	35.6	36.2	37.1	38.0	38.6	40.2	42.2
85°	20.4	20.0	20.0	20.7	20.4	20.4	21.1	21.9	21.9	22.2	23.4
87.5°	18.2	18.2	18.4	18.0	18.0	18.3	18.4	18.3	18.7	19.1	17.9
90°	51.8	51.4	51.1	50.8	50.4	50.6	51.3	51.9	52.6	53.3	45.8
92.5°	49.3	49.3	49.2	49.1	49.1	49.0	48.8	48.7	48.6	48.4	46.7
95°	94.4	95.0	95.7	96.4	97.0	97.5	97.5	97.5	97.5	97.5	96.7
97.5°	163.5	163.6	163.6	163.7	163.8	163.8	163.8	163.8	163.8	163.8	162.5
100°	208.5	208.9	209.2	209.5	210.0	210.1	210.1	210.1	210.1	210.1	209.0
102.5°	259.7	260.0	260.4	260.7	261.1	261.2	260.8	260.5	260.3	260.0	258.7
105°	338.0	338.0	338.0	338.0	338.0	337.6	337.0	336.3	335.6	335.0	334.3
107.5°	411.6	413.2	414.8	416.4	417.9	418.5	418.3	418.0	417.7	417.5	417.5
110°	468.9	469.9	470.9	471.9	472.9	473.5	473.5	473.5	473.5	473.5	473.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	523.7	524.4	525.2	525.9	526.6	527.5	528.3	529.1	529.9	530.7	531.0
115°	608.9	610.0	611.0	612.0	613.0	613.7	614.0	614.4	614.7	615.1	615.7
117.5°	690.2	691.3	692.3	693.3	694.3	695.3	696.1	696.9	697.7	698.5	700.3
120°	747.5	748.5	749.5	750.5	751.5	752.0	752.0	752.0	752.0	752.0	754.8
122.5°	803.5	804.3	805.1	805.8	806.5	807.3	808.1	808.9	809.7	810.5	812.4
125°	889.1	889.5	889.8	890.1	890.5	891.1	892.1	893.1	894.1	895.1	896.3
127.5°	967.0	968.2	969.2	970.3	971.4	972.5	973.7	974.9	976.1	977.4	978.7
130°	1023.1	1024.4	1025.8	1027.1	1028.4	1029.5	1030.2	1030.9	1031.6	1032.2	1032.9
132.5°	1076.6	1077.7	1078.8	1079.9	1081.0	1082.3	1083.8	1085.3	1086.7	1088.2	1088.1
135°	1160.1	1161.1	1162.2	1163.2	1164.2	1164.9	1165.2	1165.5	1165.9	1166.2	1165.5
137.5°	1235.6	1237.0	1238.3	1239.7	1241.0	1241.8	1242.1	1242.3	1242.6	1242.9	1242.0
140°	1288.0	1289.3	1290.7	1292.0	1293.4	1294.0	1294.0	1294.0	1294.0	1294.0	1292.4
142.5°	1335.4	1336.9	1338.2	1339.6	1340.9	1341.4	1341.2	1340.9	1340.6	1340.4	1339.2
145°	1406.7	1408.1	1409.5	1410.8	1412.1	1412.6	1412.3	1412.0	1411.6	1411.3	1409.3
147.5°	1470.4	1471.7	1472.9	1474.2	1475.5	1475.8	1475.0	1474.3	1473.6	1472.8	1471.5
150°	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8	1514.8	1513.8	1512.8	1511.8	1510.5
152.5°	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9	1554.6	1553.3	1552.1	1550.7	1549.1
155°	1603.2	1604.2	1605.2	1606.2	1607.2	1606.8	1605.2	1603.5	1601.7	1600.0	1599.0
157.5°	1648.2	1649.8	1651.4	1653.0	1654.7	1654.4	1652.0	1649.7	1647.4	1645.2	1644.6
160°	1676.2	1677.6	1678.9	1680.2	1681.6	1681.2	1679.2	1677.2	1675.2	1673.1	1672.8
162.5°	1700.5	1702.2	1703.8	1705.5	1707.1	1706.7	1704.5	1702.1	1699.8	1697.5	1697.2
165°	1732.5	1734.2	1736.0	1737.6	1739.3	1739.0	1736.6	1734.2	1731.8	1729.5	1729.5
167.5°	1758.7	1760.5	1762.2	1764.0	1765.7	1765.4	1763.1	1760.7	1758.4	1756.0	1756.1
170°	1772.1	1774.1	1776.2	1778.2	1780.2	1780.1	1777.7	1775.3	1772.9	1770.6	1770.9
172.5°	1783.1	1785.1	1787.2	1789.2	1791.2	1791.0	1788.7	1786.2	1783.9	1781.5	1781.9
175°	1794.9	1797.0	1799.0	1801.0	1803.1	1802.9	1800.5	1798.2	1795.8	1793.4	1794.1
177.5°	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0	1805.3	1803.7	1802.0	1800.4	1801.0
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1006.9	1004.5	1003.0	997.6	992.8	988.0	986.4	987.0	980.4	974.1	971.4
5°	1046.2	1038.6	1031.5	1021.3	1009.3	996.0	989.3	984.0	970.8	956.4	948.2
7.5°	1081.4	1070.6	1056.7	1037.6	1020.1	999.3	986.0	974.4	955.0	934.8	922.5
10°	1102.8	1088.0	1070.4	1046.9	1025.4	1000.2	982.5	964.7	942.1	918.0	902.9
12.5°	1121.2	1101.4	1083.9	1053.9	1028.4	996.8	975.8	950.9	927.1	898.4	883.5
15°	1165.0	1128.4	1095.2	1061.3	1030.0	985.8	962.5	928.9	897.6	862.1	845.2
17.5°	1198.8	1157.7	1105.5	1062.4	1025.8	976.9	942.6	902.4	865.4	824.9	801.8
20°	1218.2	1171.0	1114.8	1063.6	1019.8	964.0	926.7	885.6	842.1	796.5	771.6
22.5°	1229.6	1180.1	1124.5	1059.0	1007.7	953.4	906.5	861.4	817.4	768.2	742.0
25°	1233.2	1188.0	1129.1	1055.2	992.6	931.2	874.5	830.8	777.7	731.6	693.6
27.5°	1215.3	1182.9	1126.3	1048.1	975.2	903.3	840.3	790.7	734.6	684.7	646.3
30°	1193.3	1174.4	1119.3	1040.9	961.3	884.0	814.7	758.4	702.7	652.1	612.9
32.5°	1159.2	1155.1	1106.7	1030.7	946.5	859.6	787.8	730.9	669.1	619.5	582.1
35°	1092.2	1110.3	1079.7	1007.7	918.7	824.9	747.1	682.3	618.1	570.6	535.5
37.5°	1002.5	1047.4	1039.5	974.1	881.1	787.0	701.1	633.4	572.3	524.3	489.9
40°	940.6	997.9	1006.2	948.5	854.6	757.7	666.8	599.3	539.7	495.9	461.2
42.5°	874.2	941.2	964.0	917.8	825.7	726.9	636.0	566.1	507.2	464.5	433.8
45°	763.0	851.6	892.7	866.3	777.3	676.2	582.7	511.8	458.3	418.3	394.5
47.5°	658.9	755.8	811.1	801.7	723.5	623.4	531.0	462.9	410.8	378.9	357.6
50°	585.3	684.9	751.6	754.7	684.9	585.7	492.9	428.8	380.9	351.1	333.8
52.5°	521.4	616.4	689.2	705.2	641.8	546.4	458.8	395.1	352.8	325.5	309.9
55°	437.9	518.2	599.0	628.3	577.4	486.9	405.8	349.6	310.0	291.1	277.6
57.5°	364.1	431.0	505.5	538.1	506.6	429.2	353.1	304.4	272.3	255.7	245.3
60°	325.1	377.9	444.2	483.1	456.0	387.0	320.5	274.2	247.8	233.1	223.3
62.5°	288.9	335.7	391.7	427.3	412.5	347.4	288.0	247.0	224.3	210.5	203.4
65°	238.3	275.3	318.7	351.5	341.7	292.3	243.7	208.5	190.5	179.6	173.9
67.5°	196.2	223.0	253.1	281.8	273.9	238.8	199.9	172.5	159.0	149.6	146.2
70°	169.8	190.1	216.8	239.8	233.5	204.8	173.9	150.5	138.8	130.9	127.4
72.5°	144.4	161.1	181.6	200.4	196.0	172.2	146.4	128.8	119.8	112.5	109.7
75°	109.0	121.8	134.3	146.7	145.6	127.1	112.0	98.5	91.3	85.6	84.5
77.5°	80.5	87.7	96.1	103.5	101.5	90.9	79.1	71.3	66.0	62.2	61.6
80°	61.5	65.6	71.7	77.0	74.3	69.8	60.4	54.7	50.9	47.2	45.6
82.5°	44.5	48.8	52.3	55.2	53.2	49.0	43.1	39.3	37.1	34.4	33.8
85°	23.4	25.7	27.2	27.9	27.2	24.5	21.9	20.4	18.5	17.4	17.0
87.5°	16.8	15.2	13.7	13.2	11.5	10.7	8.7	7.0	7.5	8.0	8.2
90°	38.4	31.0	23.5	17.8	13.7	9.6	5.6	1.5	5.6	9.6	13.7
92.5°	44.9	43.1	41.4	39.0	36.1	33.0	30.1	27.1	30.1	33.0	36.1
95°	96.0	95.4	94.7	92.7	89.3	85.9	82.5	79.2	82.5	85.9	89.3
97.5°	161.3	160.0	158.6	156.5	153.6	150.6	147.6	144.6	147.6	150.6	153.6
100°	208.0	207.0	206.0	204.2	201.5	198.7	196.0	193.4	196.0	198.7	201.5
102.5°	257.4	256.2	254.9	253.2	251.0	248.8	246.7	244.5	246.7	248.8	251.0
105°	333.6	333.0	332.2	331.3	330.3	329.3	328.3	327.3	328.3	329.3	330.3
107.5°	417.5	417.5	417.5	416.7	415.3	413.7	412.2	410.7	412.2	413.7	415.3
110°	473.5	473.5	473.5	472.4	470.4	468.4	466.4	464.3	466.4	468.4	470.4



TEST NUMBER: P331520-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	531.3	531.5	531.8	530.9	528.9	526.8	524.8	522.8	524.8	526.8	528.9
115°	616.4	617.1	617.7	617.1	615.1	613.0	611.0	608.9	611.0	613.0	615.1
117.5°	702.3	704.2	706.1	705.7	703.0	700.2	697.5	694.9	697.5	700.2	703.0
120°	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0	754.8	757.5	760.2
122.5°	814.4	816.3	818.1	817.5	814.2	810.9	807.7	804.5	807.7	810.9	814.2
125°	897.3	898.3	899.3	898.3	895.1	892.1	889.1	886.1	889.1	892.1	895.1
127.5°	979.9	981.1	982.3	981.0	977.1	973.2	969.4	965.5	969.4	973.2	977.1
130°	1033.6	1034.2	1034.9	1033.1	1028.6	1024.3	1019.9	1015.4	1019.9	1024.3	1028.6
132.5°	1087.9	1087.8	1087.7	1085.8	1082.3	1078.6	1075.1	1071.5	1075.1	1078.6	1082.3
135°	1164.9	1164.2	1163.5	1161.2	1157.5	1153.9	1150.1	1146.4	1150.1	1153.9	1157.5
137.5°	1241.1	1240.3	1239.4	1237.4	1234.4	1231.3	1228.3	1225.3	1228.3	1231.3	1234.4
140°	1290.7	1289.0	1287.3	1285.0	1281.9	1278.9	1275.8	1272.7	1275.8	1278.9	1281.9
142.5°	1338.1	1336.9	1335.7	1333.6	1330.6	1327.6	1324.5	1321.5	1324.5	1327.6	1330.6
145°	1407.2	1405.2	1403.2	1401.0	1398.6	1396.2	1393.9	1391.5	1393.9	1396.2	1398.6
147.5°	1470.1	1468.7	1467.4	1465.3	1462.5	1459.6	1456.7	1453.9	1456.7	1459.6	1462.5
150°	1509.0	1507.7	1506.3	1504.7	1502.7	1500.7	1498.5	1496.5	1498.5	1500.7	1502.7
152.5°	1547.5	1545.9	1544.3	1542.5	1540.3	1538.3	1536.3	1534.3	1536.3	1538.3	1540.3
155°	1598.0	1597.0	1596.0	1595.0	1594.0	1593.0	1592.0	1590.9	1592.0	1593.0	1594.0
157.5°	1644.0	1643.4	1642.7	1642.0	1641.4	1640.7	1640.0	1639.3	1640.0	1640.7	1641.4
160°	1672.4	1672.1	1671.8	1671.3	1670.6	1669.9	1669.3	1668.6	1669.3	1669.9	1670.6
162.5°	1696.9	1696.5	1696.2	1696.0	1695.8	1695.7	1695.6	1695.4	1695.6	1695.7	1695.8
165°	1729.5	1729.5	1729.5	1729.7	1730.0	1730.3	1730.7	1731.0	1730.7	1730.3	1730.0
167.5°	1756.2	1756.2	1756.3	1756.8	1757.8	1758.8	1759.8	1760.8	1759.8	1758.8	1757.8
170°	1771.3	1771.6	1771.9	1772.6	1773.6	1774.6	1775.6	1776.7	1775.6	1774.6	1773.6
172.5°	1782.2	1782.6	1782.9	1783.6	1784.6	1785.6	1786.7	1787.7	1786.7	1785.6	1784.6
175°	1794.7	1795.4	1796.1	1797.0	1798.0	1799.0	1800.0	1801.0	1800.0	1799.0	1798.0
177.5°	1801.5	1802.0	1802.6	1803.3	1804.1	1804.9	1805.7	1806.5	1805.7	1804.9	1804.1
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	968.4	966.5	960.2	956.8	951.5	946.3	943.0	944.5	945.7	945.1	944.2
5°	940.6	933.4	922.5	913.0	906.3	893.8	888.6	886.0	883.6	881.0	878.4
7.5°	907.6	896.3	880.6	867.2	854.4	839.0	830.2	824.9	819.4	813.4	808.2
10°	884.0	868.2	851.6	832.7	817.7	803.7	791.2	782.9	775.4	768.2	763.0
12.5°	859.3	841.0	820.5	794.8	778.1	758.1	756.3	741.6	729.8	725.4	719.2
15°	819.9	794.3	768.2	737.7	724.5	706.4	695.1	683.8	673.6	666.4	664.5
17.5°	775.2	741.9	716.1	694.2	672.6	654.0	643.6	634.5	626.1	616.5	615.3
20°	741.0	712.5	684.2	664.9	642.7	623.8	611.0	601.9	594.7	589.1	584.2
22.5°	708.8	677.4	651.6	630.5	608.5	593.3	583.2	574.5	568.6	562.3	557.6
25°	657.0	632.5	604.2	580.5	562.3	552.5	544.2	536.6	532.9	528.8	523.5
27.5°	611.7	584.4	558.0	539.6	523.6	514.9	509.1	503.9	500.4	498.0	494.9
30°	579.7	552.1	531.4	513.3	500.1	491.4	487.7	484.6	480.5	479.0	477.5
32.5°	548.9	524.1	506.3	490.7	478.1	472.4	469.0	466.3	463.0	461.5	458.5
35°	505.3	484.6	467.3	458.6	448.4	443.5	440.9	437.1	434.1	432.6	432.2
37.5°	464.4	446.4	434.9	423.8	419.5	416.5	412.9	410.3	409.4	409.2	408.8
40°	437.9	423.1	412.9	403.9	402.0	397.5	394.5	392.2	392.2	392.6	392.2
42.5°	413.7	400.5	391.5	383.7	381.5	378.8	375.8	375.7	376.3	377.5	376.3
45°	377.2	367.7	361.3	357.5	353.4	350.7	350.3	351.5	351.8	352.2	353.4
47.5°	343.5	337.2	331.4	327.3	325.5	325.0	324.6	326.5	328.3	329.0	330.7
50°	323.6	316.4	311.5	308.9	307.4	306.6	307.4	309.6	311.1	313.1	314.2
52.5°	301.2	296.2	292.9	290.7	290.1	290.6	290.7	293.4	295.8	296.4	297.0
55°	270.4	266.6	265.9	262.5	264.0	263.6	265.5	267.0	269.2	271.6	272.0
57.5°	239.6	236.6	234.6	234.9	235.3	237.0	238.5	241.3	243.7	246.0	246.3
60°	219.1	217.6	216.5	216.5	217.2	219.5	221.4	224.0	225.5	227.0	228.1
62.5°	200.5	198.9	197.7	198.3	200.4	201.7	203.9	205.3	206.8	208.3	208.8
65°	170.9	170.1	171.3	172.0	172.4	174.2	176.9	178.0	179.6	180.3	182.9
67.5°	143.6	143.8	143.6	144.7	146.8	147.3	149.8	152.5	152.8	154.2	155.9
70°	125.2	125.9	126.7	127.4	129.4	130.1	132.0	133.1	134.6	135.7	136.9
72.5°	108.4	108.5	109.3	109.1	110.7	112.3	113.9	115.0	116.5	118.0	119.1
75°	83.3	83.3	84.1	84.5	86.3	88.3	87.9	88.7	90.2	91.7	92.4
77.5°	60.9	60.1	60.9	61.2	61.8	63.4	63.7	64.8	66.6	66.0	66.9
80°	46.4	45.2	46.4	46.8	46.8	48.7	48.7	49.4	50.5	49.4	50.5
82.5°	33.1	32.6	33.4	33.5	34.1	34.1	34.7	34.9	36.1	35.5	36.1
85°	16.6	16.3	16.6	16.3	16.6	17.0	17.0	16.6	16.6	17.4	16.3
87.5°	8.7	9.5	10.7	12.2	13.4	14.5	14.1	14.0	13.8	13.1	13.1
90°	17.8	23.5	31.0	38.4	45.8	53.3	52.6	51.9	51.3	50.6	50.4
92.5°	39.0	41.4	43.1	44.9	46.7	48.4	48.6	48.7	48.8	49.0	49.1
95°	92.7	94.7	95.4	96.0	96.7	97.5	97.5	97.5	97.5	97.5	97.0
97.5°	156.5	158.6	160.0	161.3	162.5	163.8	163.8	163.8	163.8	163.8	163.8
100°	204.2	206.0	207.0	208.0	209.0	210.1	210.1	210.1	210.1	210.1	210.0
102.5°	253.2	254.9	256.2	257.4	258.7	260.0	260.3	260.5	260.8	261.2	261.1
105°	331.3	332.2	333.0	333.6	334.3	335.0	335.6	336.3	337.0	337.6	338.0
107.5°	416.7	417.5	417.5	417.5	417.5	417.5	417.7	418.0	418.3	418.5	417.9
110°	472.4	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	472.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	530.9	531.8	531.5	531.3	531.0	530.7	529.9	529.1	528.3	527.5	526.6
115°	617.1	617.7	617.1	616.4	615.7	615.1	614.7	614.4	614.0	613.7	613.0
117.5°	705.7	706.1	704.2	702.3	700.3	698.5	697.7	696.9	696.1	695.3	694.3
120°	763.0	763.0	760.2	757.5	754.8	752.0	752.0	752.0	752.0	752.0	751.5
122.5°	817.5	818.1	816.3	814.4	812.4	810.5	809.7	808.9	808.1	807.3	806.5
125°	898.3	899.3	898.3	897.3	896.3	895.1	894.1	893.1	892.1	891.1	890.5
127.5°	981.0	982.3	981.1	979.9	978.7	977.4	976.1	974.9	973.7	972.5	971.4
130°	1033.1	1034.9	1034.2	1033.6	1032.9	1032.2	1031.6	1030.9	1030.2	1029.5	1028.4
132.5°	1085.8	1087.7	1087.8	1087.9	1088.1	1088.2	1086.7	1085.3	1083.8	1082.3	1081.0
135°	1161.2	1163.5	1164.2	1164.9	1165.5	1166.2	1165.9	1165.5	1165.2	1164.9	1164.2
137.5°	1237.4	1239.4	1240.3	1241.1	1242.0	1242.9	1242.6	1242.3	1242.1	1241.8	1241.0
140°	1285.0	1287.3	1289.0	1290.7	1292.4	1294.0	1294.0	1294.0	1294.0	1294.0	1293.4
142.5°	1333.6	1335.7	1336.9	1338.1	1339.2	1340.4	1340.6	1340.9	1341.2	1341.4	1340.9
145°	1401.0	1403.2	1405.2	1407.2	1409.3	1411.3	1411.6	1412.0	1412.3	1412.6	1412.1
147.5°	1465.3	1467.4	1468.7	1470.1	1471.5	1472.8	1473.6	1474.3	1475.0	1475.8	1475.5
150°	1504.7	1506.3	1507.7	1509.0	1510.5	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8
152.5°	1542.5	1544.3	1545.9	1547.5	1549.1	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9
155°	1595.0	1596.0	1597.0	1598.0	1599.0	1600.0	1601.7	1603.5	1605.2	1606.8	1607.2
157.5°	1642.0	1642.7	1643.4	1644.0	1644.6	1645.2	1647.4	1649.7	1652.0	1654.4	1654.7
160°	1671.3	1671.8	1672.1	1672.4	1672.8	1673.1	1675.2	1677.2	1679.2	1681.2	1681.6
162.5°	1696.0	1696.2	1696.5	1696.9	1697.2	1697.5	1699.8	1702.1	1704.5	1706.7	1707.1
165°	1729.7	1729.5	1729.5	1729.5	1729.5	1729.5	1731.8	1734.2	1736.6	1739.0	1739.3
167.5°	1756.8	1756.3	1756.2	1756.2	1756.1	1756.0	1758.4	1760.7	1763.1	1765.4	1765.7
170°	1772.6	1771.9	1771.6	1771.3	1770.9	1770.6	1772.9	1775.3	1777.7	1780.1	1780.2
172.5°	1783.6	1782.9	1782.6	1782.2	1781.9	1781.5	1783.9	1786.2	1788.7	1791.0	1791.2
175°	1797.0	1796.1	1795.4	1794.7	1794.1	1793.4	1795.8	1798.2	1800.5	1802.9	1803.1
177.5°	1803.3	1802.6	1802.0	1801.5	1801.0	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	941.2	940.6	940.6	937.9	940.6	940.6	941.2	944.2	945.1	945.7	944.5
5°	873.1	871.9	870.1	871.9	870.1	871.9	873.1	878.4	881.0	883.6	886.0
7.5°	805.8	801.2	800.5	796.1	800.5	801.2	805.8	808.2	813.4	819.4	824.9
10°	756.6	753.6	753.2	746.0	753.2	753.6	756.6	763.0	768.2	775.4	782.9
12.5°	719.1	711.9	713.4	709.2	713.4	711.9	719.1	719.2	725.4	729.8	741.6
15°	654.3	654.3	652.9	646.4	652.9	654.3	654.3	664.5	666.4	673.6	683.8
17.5°	607.8	607.0	603.4	605.2	603.4	607.0	607.8	615.3	616.5	626.1	634.5
20°	580.1	577.7	573.3	573.3	573.3	577.7	580.1	584.2	589.1	594.7	601.9
22.5°	553.8	553.6	548.9	550.4	548.9	553.6	553.8	557.6	562.3	568.6	574.5
25°	523.1	520.1	517.9	519.0	517.9	520.1	523.1	523.5	528.8	532.9	536.6
27.5°	494.0	492.3	492.2	489.1	492.2	492.3	494.0	494.9	498.0	500.4	503.9
30°	477.1	473.3	474.0	472.2	474.0	473.3	477.1	477.5	479.0	480.5	484.6
32.5°	457.8	456.5	455.7	454.0	455.7	456.5	457.8	458.5	461.5	463.0	466.3
35°	431.4	431.8	429.9	430.7	429.9	431.8	431.4	432.2	432.6	434.1	437.1
37.5°	408.5	409.7	408.8	409.0	408.8	409.7	408.5	408.8	409.2	409.4	410.3
40°	393.3	393.3	393.3	394.5	393.3	393.3	393.3	392.2	392.6	392.2	392.2
42.5°	378.9	378.3	377.7	377.6	377.7	378.3	378.9	376.3	377.5	376.3	375.7
45°	354.2	355.3	355.7	353.8	355.7	355.3	354.2	353.4	352.2	351.8	351.5
47.5°	331.7	331.8	331.7	333.4	331.7	331.8	331.7	330.7	329.0	328.3	326.5
50°	316.1	315.3	316.1	315.3	316.1	315.3	316.1	314.2	313.1	311.1	309.6
52.5°	299.4	299.6	299.1	299.0	299.1	299.6	299.4	297.0	296.4	295.8	293.4
55°	273.5	274.2	273.8	273.8	273.8	274.2	273.5	272.0	271.6	269.2	267.0
57.5°	246.5	247.2	247.7	246.0	247.7	247.2	246.5	246.3	246.0	243.7	241.3
60°	227.8	229.6	229.3	228.5	229.3	229.6	227.8	228.1	227.0	225.5	224.0
62.5°	210.6	211.3	211.2	211.1	211.2	211.3	210.6	208.8	208.3	206.8	205.3
65°	184.0	184.8	183.7	184.8	183.7	184.8	184.0	182.9	180.3	179.6	178.0
67.5°	155.4	155.7	156.5	157.0	156.5	155.7	155.4	155.9	154.2	152.8	152.5
70°	137.6	137.2	138.5	139.6	138.5	137.2	137.6	136.9	135.7	134.6	133.1
72.5°	119.0	119.8	119.4	120.3	119.4	119.8	119.0	119.1	118.0	116.5	115.0
75°	91.7	92.8	92.4	93.5	92.4	92.8	91.7	92.4	91.7	90.2	88.7
77.5°	66.2	66.3	66.2	66.9	66.2	66.3	66.2	66.9	66.0	66.6	64.8
80°	50.5	49.8	49.0	50.5	49.0	49.8	50.5	50.5	49.4	50.5	49.4
82.5°	35.1	35.6	34.8	34.8	34.8	35.6	35.1	36.1	35.5	36.1	34.9
85°	16.3	15.9	15.0	15.0	15.0	15.9	16.3	16.3	17.4	16.6	16.6
87.5°	13.1	12.9	13.0	12.7	13.0	12.9	13.1	13.1	13.1	13.8	14.0
90°	50.8	51.1	51.4	51.8	51.4	51.1	50.8	50.4	50.6	51.3	51.9
92.5°	49.1	49.2	49.3	49.3	49.3	49.2	49.1	49.1	49.0	48.8	48.7
95°	96.4	95.7	95.0	94.4	95.0	95.7	96.4	97.0	97.5	97.5	97.5
97.5°	163.7	163.6	163.6	163.5	163.6	163.6	163.7	163.8	163.8	163.8	163.8
100°	209.5	209.2	208.9	208.5	208.9	209.2	209.5	210.0	210.1	210.1	210.1
102.5°	260.7	260.4	260.0	259.7	260.0	260.4	260.7	261.1	261.2	260.8	260.5
105°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	337.6	337.0	336.3
107.5°	416.4	414.8	413.2	411.6	413.2	414.8	416.4	417.9	418.5	418.3	418.0
110°	471.9	470.9	469.9	468.9	469.9	470.9	471.9	472.9	473.5	473.5	473.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	525.9	525.2	524.4	523.7	524.4	525.2	525.9	526.6	527.5	528.3	529.1
115°	612.0	611.0	610.0	608.9	610.0	611.0	612.0	613.0	613.7	614.0	614.4
117.5°	693.3	692.3	691.3	690.2	691.3	692.3	693.3	694.3	695.3	696.1	696.9
120°	750.5	749.5	748.5	747.5	748.5	749.5	750.5	751.5	752.0	752.0	752.0
122.5°	805.8	805.1	804.3	803.5	804.3	805.1	805.8	806.5	807.3	808.1	808.9
125°	890.1	889.8	889.5	889.1	889.5	889.8	890.1	890.5	891.1	892.1	893.1
127.5°	970.3	969.2	968.2	967.0	968.2	969.2	970.3	971.4	972.5	973.7	974.9
130°	1027.1	1025.8	1024.4	1023.1	1024.4	1025.8	1027.1	1028.4	1029.5	1030.2	1030.9
132.5°	1079.9	1078.8	1077.7	1076.6	1077.7	1078.8	1079.9	1081.0	1082.3	1083.8	1085.3
135°	1163.2	1162.2	1161.1	1160.1	1161.1	1162.2	1163.2	1164.2	1164.9	1165.2	1165.5
137.5°	1239.7	1238.3	1237.0	1235.6	1237.0	1238.3	1239.7	1241.0	1241.8	1242.1	1242.3
140°	1292.0	1290.7	1289.3	1288.0	1289.3	1290.7	1292.0	1293.4	1294.0	1294.0	1294.0
142.5°	1339.6	1338.2	1336.9	1335.4	1336.9	1338.2	1339.6	1340.9	1341.4	1341.2	1340.9
145°	1410.8	1409.5	1408.1	1406.7	1408.1	1409.5	1410.8	1412.1	1412.6	1412.3	1412.0
147.5°	1474.2	1472.9	1471.7	1470.4	1471.7	1472.9	1474.2	1475.5	1475.8	1475.0	1474.3
150°	1514.8	1513.8	1512.8	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8	1514.8	1513.8
152.5°	1554.6	1553.3	1552.1	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9	1554.6	1553.3
155°	1606.2	1605.2	1604.2	1603.2	1604.2	1605.2	1606.2	1607.2	1606.8	1605.2	1603.5
157.5°	1653.0	1651.4	1649.8	1648.2	1649.8	1651.4	1653.0	1654.7	1654.4	1652.0	1649.7
160°	1680.2	1678.9	1677.6	1676.2	1677.6	1678.9	1680.2	1681.6	1681.2	1679.2	1677.2
162.5°	1705.5	1703.8	1702.2	1700.5	1702.2	1703.8	1705.5	1707.1	1706.7	1704.5	1702.1
165°	1737.6	1736.0	1734.2	1732.5	1734.2	1736.0	1737.6	1739.3	1739.0	1736.6	1734.2
167.5°	1764.0	1762.2	1760.5	1758.7	1760.5	1762.2	1764.0	1765.7	1765.4	1763.1	1760.7
170°	1778.2	1776.2	1774.1	1772.1	1774.1	1776.2	1778.2	1780.2	1780.1	1777.7	1775.3
172.5°	1789.2	1787.2	1785.1	1783.1	1785.1	1787.2	1789.2	1791.2	1791.0	1788.7	1786.2
175°	1801.0	1799.0	1797.0	1794.9	1797.0	1799.0	1801.0	1803.1	1802.9	1800.5	1798.2
177.5°	1805.3	1803.7	1802.0	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0	1805.3	1803.7
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	943.0	946.3	951.5	956.8	960.2	966.5	968.4	971.4	974.1	980.4	987.0
5°	888.6	893.8	906.3	913.0	922.5	933.4	940.6	948.2	956.4	970.8	984.0
7.5°	830.2	839.0	854.4	867.2	880.6	896.3	907.6	922.5	934.8	955.0	974.4
10°	791.2	803.7	817.7	832.7	851.6	868.2	884.0	902.9	918.0	942.1	964.7
12.5°	756.3	758.1	778.1	794.8	820.5	841.0	859.3	883.5	898.4	927.1	950.9
15°	695.1	706.4	724.5	737.7	768.2	794.3	819.9	845.2	862.1	897.6	928.9
17.5°	643.6	654.0	672.6	694.2	716.1	741.9	775.2	801.8	824.9	865.4	902.4
20°	611.0	623.8	642.7	664.9	684.2	712.5	741.0	771.6	796.5	842.1	885.6
22.5°	583.2	593.3	608.5	630.5	651.6	677.4	708.8	742.0	768.2	817.4	861.4
25°	544.2	552.5	562.3	580.5	604.2	632.5	657.0	693.6	731.6	777.7	830.8
27.5°	509.1	514.9	523.6	539.6	558.0	584.4	611.7	646.3	684.7	734.6	790.7
30°	487.7	491.4	500.1	513.3	531.4	552.1	579.7	612.9	652.1	702.7	758.4
32.5°	469.0	472.4	478.1	490.7	506.3	524.1	548.9	582.1	619.5	669.1	730.9
35°	440.9	443.5	448.4	458.6	467.3	484.6	505.3	535.5	570.6	618.1	682.3
37.5°	412.9	416.5	419.5	423.8	434.9	446.4	464.4	489.9	524.3	572.3	633.4
40°	394.5	397.5	402.0	403.9	412.9	423.1	437.9	461.2	495.9	539.7	599.3
42.5°	375.8	378.8	381.5	383.7	391.5	400.5	413.7	433.8	464.5	507.2	566.1
45°	350.3	350.7	353.4	357.5	361.3	367.7	377.2	394.5	418.3	458.3	511.8
47.5°	324.6	325.0	325.5	327.3	331.4	337.2	343.5	357.6	378.9	410.8	462.9
50°	307.4	306.6	307.4	308.9	311.5	316.4	323.6	333.8	351.1	380.9	428.8
52.5°	290.7	290.6	290.1	290.7	292.9	296.2	301.2	309.9	325.5	352.8	395.1
55°	265.5	263.6	264.0	262.5	265.9	266.6	270.4	277.6	291.1	310.0	349.6
57.5°	238.5	237.0	235.3	234.9	234.6	236.6	239.6	245.3	255.7	272.3	304.4
60°	221.4	219.5	217.2	216.5	216.5	217.6	219.1	223.3	233.1	247.8	274.2
62.5°	203.9	201.7	200.4	198.3	197.7	198.9	200.5	203.4	210.5	224.3	247.0
65°	176.9	174.2	172.4	172.0	171.3	170.1	170.9	173.9	179.6	190.5	208.5
67.5°	149.8	147.3	146.8	144.7	143.6	143.8	143.6	146.2	149.6	159.0	172.5
70°	132.0	130.1	129.4	127.4	126.7	125.9	125.2	127.4	130.9	138.8	150.5
72.5°	113.9	112.3	110.7	109.1	109.3	108.5	108.4	109.7	112.5	119.8	128.8
75°	87.9	88.3	86.3	84.5	84.1	83.3	83.3	84.5	85.6	91.3	98.5
77.5°	63.7	63.4	61.8	61.2	60.9	60.1	60.9	61.6	62.2	66.0	71.3
80°	48.7	48.7	46.8	46.8	46.4	45.2	46.4	45.6	47.2	50.9	54.7
82.5°	34.7	34.1	34.1	33.5	33.4	32.6	33.1	33.8	34.4	37.1	39.3
85°	17.0	17.0	16.6	16.3	16.6	16.3	16.6	17.0	17.4	18.5	20.4
87.5°	14.1	14.5	13.4	12.2	10.7	9.5	8.7	8.2	8.0	7.5	7.0
90°	52.6	53.3	45.8	38.4	31.0	23.5	17.8	13.7	9.6	5.6	1.5
92.5°	48.6	48.4	46.7	44.9	43.1	41.4	39.0	36.1	33.0	30.1	27.1
95°	97.5	97.5	96.7	96.0	95.4	94.7	92.7	89.3	85.9	82.5	79.2
97.5°	163.8	163.8	162.5	161.3	160.0	158.6	156.5	153.6	150.6	147.6	144.6
100°	210.1	210.1	209.0	208.0	207.0	206.0	204.2	201.5	198.7	196.0	193.4
102.5°	260.3	260.0	258.7	257.4	256.2	254.9	253.2	251.0	248.8	246.7	244.5
105°	335.6	335.0	334.3	333.6	333.0	332.2	331.3	330.3	329.3	328.3	327.3
107.5°	417.7	417.5	417.5	417.5	417.5	417.5	416.7	415.3	413.7	412.2	410.7
110°	473.5	473.5	473.5	473.5	473.5	473.5	472.4	470.4	468.4	466.4	464.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	529.9	530.7	531.0	531.3	531.5	531.8	530.9	528.9	526.8	524.8	522.8
115°	614.7	615.1	615.7	616.4	617.1	617.7	617.1	615.1	613.0	611.0	608.9
117.5°	697.7	698.5	700.3	702.3	704.2	706.1	705.7	703.0	700.2	697.5	694.9
120°	752.0	752.0	754.8	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0
122.5°	809.7	810.5	812.4	814.4	816.3	818.1	817.5	814.2	810.9	807.7	804.5
125°	894.1	895.1	896.3	897.3	898.3	899.3	898.3	895.1	892.1	889.1	886.1
127.5°	976.1	977.4	978.7	979.9	981.1	982.3	981.0	977.1	973.2	969.4	965.5
130°	1031.6	1032.2	1032.9	1033.6	1034.2	1034.9	1033.1	1028.6	1024.3	1019.9	1015.4
132.5°	1086.7	1088.2	1088.1	1087.9	1087.8	1087.7	1085.8	1082.3	1078.6	1075.1	1071.5
135°	1165.9	1166.2	1165.5	1164.9	1164.2	1163.5	1161.2	1157.5	1153.9	1150.1	1146.4
137.5°	1242.6	1242.9	1242.0	1241.1	1240.3	1239.4	1237.4	1234.4	1231.3	1228.3	1225.3
140°	1294.0	1294.0	1292.4	1290.7	1289.0	1287.3	1285.0	1281.9	1278.9	1275.8	1272.7
142.5°	1340.6	1340.4	1339.2	1338.1	1336.9	1335.7	1333.6	1330.6	1327.6	1324.5	1321.5
145°	1411.6	1411.3	1409.3	1407.2	1405.2	1403.2	1401.0	1398.6	1396.2	1393.9	1391.5
147.5°	1473.6	1472.8	1471.5	1470.1	1468.7	1467.4	1465.3	1462.5	1459.6	1456.7	1453.9
150°	1512.8	1511.8	1510.5	1509.0	1507.7	1506.3	1504.7	1502.7	1500.7	1498.5	1496.5
152.5°	1552.1	1550.7	1549.1	1547.5	1545.9	1544.3	1542.5	1540.3	1538.3	1536.3	1534.3
155°	1601.7	1600.0	1599.0	1598.0	1597.0	1596.0	1595.0	1594.0	1593.0	1592.0	1590.9
157.5°	1647.4	1645.2	1644.6	1644.0	1643.4	1642.7	1642.0	1641.4	1640.7	1640.0	1639.3
160°	1675.2	1673.1	1672.8	1672.4	1672.1	1671.8	1671.3	1670.6	1669.9	1669.3	1668.6
162.5°	1699.8	1697.5	1697.2	1696.9	1696.5	1696.2	1696.0	1695.8	1695.7	1695.6	1695.4
165°	1731.8	1729.5	1729.5	1729.5	1729.5	1729.5	1729.7	1730.0	1730.3	1730.7	1731.0
167.5°	1758.4	1756.0	1756.1	1756.2	1756.2	1756.3	1756.8	1757.8	1758.8	1759.8	1760.8
170°	1772.9	1770.6	1770.9	1771.3	1771.6	1771.9	1772.6	1773.6	1774.6	1775.6	1776.7
172.5°	1783.9	1781.5	1781.9	1782.2	1782.6	1782.9	1783.6	1784.6	1785.6	1786.7	1787.7
175°	1795.8	1793.4	1794.1	1794.7	1795.4	1796.1	1797.0	1798.0	1799.0	1800.0	1801.0
177.5°	1802.0	1800.4	1801.0	1801.5	1802.0	1802.6	1803.3	1804.1	1804.9	1805.7	1806.5
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	986.4	988.0	992.8	997.6	1003.0	1004.5	1006.9	1004.8	1004.2	1010.0	1014.2
5°	989.3	996.0	1009.3	1021.3	1031.5	1038.6	1046.2	1049.2	1054.9	1062.8	1072.6
7.5°	986.0	999.3	1020.1	1037.6	1056.7	1070.6	1081.4	1090.6	1101.7	1116.7	1133.1
10°	982.5	1000.2	1025.4	1046.9	1070.4	1088.0	1102.8	1117.1	1133.7	1154.5	1175.9
12.5°	975.8	996.8	1028.4	1053.9	1083.9	1101.4	1121.2	1152.1	1169.9	1198.8	1229.0
15°	962.5	985.8	1030.0	1061.3	1095.2	1128.4	1165.0	1194.4	1223.9	1240.8	1283.4
17.5°	942.6	976.9	1025.8	1062.4	1105.5	1157.7	1198.8	1232.2	1266.2	1293.6	1315.0
20°	926.7	964.0	1019.8	1063.6	1114.8	1171.0	1218.2	1252.1	1281.5	1304.5	1317.8
22.5°	906.5	953.4	1007.7	1059.0	1124.5	1180.1	1229.6	1256.4	1280.9	1292.1	1297.2
25°	874.5	931.2	992.6	1055.2	1129.1	1188.0	1233.2	1249.5	1256.7	1245.7	1227.6
27.5°	840.3	903.3	975.2	1048.1	1126.3	1182.9	1215.3	1212.7	1200.6	1165.2	1136.9
30°	814.7	884.0	961.3	1040.9	1119.3	1174.4	1193.3	1174.4	1146.9	1107.3	1066.9
32.5°	787.8	859.6	946.5	1030.7	1106.7	1155.1	1159.2	1126.7	1084.1	1039.2	988.8
35°	747.1	824.9	918.7	1007.7	1079.7	1110.3	1092.2	1034.9	984.3	922.9	854.2
37.5°	701.1	787.0	881.1	974.1	1039.5	1047.4	1002.5	942.1	870.8	798.6	717.8
40°	666.8	757.7	854.6	948.5	1006.2	997.9	940.6	874.2	789.3	701.1	626.0
42.5°	636.0	726.9	825.7	917.8	964.0	941.2	874.2	792.7	701.6	618.4	549.8
45°	582.7	676.2	777.3	866.3	892.7	851.6	763.0	672.5	582.7	513.3	459.0
47.5°	531.0	623.4	723.5	801.7	811.1	755.8	658.9	565.8	488.7	432.1	393.8
50°	492.9	585.7	684.9	754.7	751.6	684.9	585.3	496.7	432.2	386.6	360.9
52.5°	458.8	546.4	641.8	705.2	689.2	616.4	521.4	442.7	389.7	354.0	330.7
55°	405.8	486.9	577.4	628.3	599.0	518.2	437.9	374.5	335.3	308.5	290.4
57.5°	353.1	429.2	506.6	538.1	505.5	431.0	364.1	318.1	288.6	268.7	257.0
60°	320.5	387.0	456.0	483.1	444.2	377.9	325.1	284.0	260.2	244.0	233.5
62.5°	288.0	347.4	412.5	427.3	391.7	335.7	288.9	254.7	235.2	220.8	210.9
65°	243.7	292.3	341.7	351.5	318.7	275.3	238.3	216.1	198.7	188.2	180.3
67.5°	199.9	238.8	273.9	281.8	253.1	223.0	196.2	176.9	165.1	156.3	149.7
70°	173.9	204.8	233.5	239.8	216.8	190.1	169.8	154.2	143.7	136.1	129.8
72.5°	146.4	172.2	196.0	200.4	181.6	161.1	144.4	132.2	122.9	118.1	111.9
75°	112.0	127.1	145.6	146.7	134.3	121.8	109.0	101.1	96.1	90.2	87.2
77.5°	79.1	90.9	101.5	103.5	96.1	87.7	80.5	74.2	70.1	67.3	64.5
80°	60.4	69.8	74.3	77.0	71.7	65.6	61.5	57.4	54.7	52.8	50.9
82.5°	43.1	49.0	53.2	55.2	52.3	48.8	44.5	42.2	40.2	38.6	38.0
85°	21.9	24.5	27.2	27.9	27.2	25.7	23.4	23.4	22.2	21.9	21.9
87.5°	8.7	10.7	11.5	13.2	13.7	15.2	16.8	17.9	19.1	18.7	18.3
90°	5.6	9.6	13.7	17.8	23.5	31.0	38.4	45.8	53.3	52.6	51.9
92.5°	30.1	33.0	36.1	39.0	41.4	43.1	44.9	46.7	48.4	48.6	48.7
95°	82.5	85.9	89.3	92.7	94.7	95.4	96.0	96.7	97.5	97.5	97.5
97.5°	147.6	150.6	153.6	156.5	158.6	160.0	161.3	162.5	163.8	163.8	163.8
100°	196.0	198.7	201.5	204.2	206.0	207.0	208.0	209.0	210.1	210.1	210.1
102.5°	246.7	248.8	251.0	253.2	254.9	256.2	257.4	258.7	260.0	260.3	260.5
105°	328.3	329.3	330.3	331.3	332.2	333.0	333.6	334.3	335.0	335.6	336.3
107.5°	412.2	413.7	415.3	416.7	417.5	417.5	417.5	417.5	417.5	417.7	418.0
110°	466.4	468.4	470.4	472.4	473.5	473.5	473.5	473.5	473.5	473.5	473.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	524.8	526.8	528.9	530.9	531.8	531.5	531.3	531.0	530.7	529.9	529.1
115°	611.0	613.0	615.1	617.1	617.7	617.1	616.4	615.7	615.1	614.7	614.4
117.5°	697.5	700.2	703.0	705.7	706.1	704.2	702.3	700.3	698.5	697.7	696.9
120°	754.8	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0	752.0	752.0
122.5°	807.7	810.9	814.2	817.5	818.1	816.3	814.4	812.4	810.5	809.7	808.9
125°	889.1	892.1	895.1	898.3	899.3	898.3	897.3	896.3	895.1	894.1	893.1
127.5°	969.4	973.2	977.1	981.0	982.3	981.1	979.9	978.7	977.4	976.1	974.9
130°	1019.9	1024.3	1028.6	1033.1	1034.9	1034.2	1033.6	1032.9	1032.2	1031.6	1030.9
132.5°	1075.1	1078.6	1082.3	1085.8	1087.7	1087.8	1087.9	1088.1	1088.2	1086.7	1085.3
135°	1150.1	1153.9	1157.5	1161.2	1163.5	1164.2	1164.9	1165.5	1166.2	1165.9	1165.5
137.5°	1228.3	1231.3	1234.4	1237.4	1239.4	1240.3	1241.1	1242.0	1242.9	1242.6	1242.3
140°	1275.8	1278.9	1281.9	1285.0	1287.3	1289.0	1290.7	1292.4	1294.0	1294.0	1294.0
142.5°	1324.5	1327.6	1330.6	1333.6	1335.7	1336.9	1338.1	1339.2	1340.4	1340.6	1340.9
145°	1393.9	1396.2	1398.6	1401.0	1403.2	1405.2	1407.2	1409.3	1411.3	1411.6	1412.0
147.5°	1456.7	1459.6	1462.5	1465.3	1467.4	1468.7	1470.1	1471.5	1472.8	1473.6	1474.3
150°	1498.5	1500.7	1502.7	1504.7	1506.3	1507.7	1509.0	1510.5	1511.8	1512.8	1513.8
152.5°	1536.3	1538.3	1540.3	1542.5	1544.3	1545.9	1547.5	1549.1	1550.7	1552.1	1553.3
155°	1592.0	1593.0	1594.0	1595.0	1596.0	1597.0	1598.0	1599.0	1600.0	1601.7	1603.5
157.5°	1640.0	1640.7	1641.4	1642.0	1642.7	1643.4	1644.0	1644.6	1645.2	1647.4	1649.7
160°	1669.3	1669.9	1670.6	1671.3	1671.8	1672.1	1672.4	1672.8	1673.1	1675.2	1677.2
162.5°	1695.6	1695.7	1695.8	1696.0	1696.2	1696.5	1696.9	1697.2	1697.5	1699.8	1702.1
165°	1730.7	1730.3	1730.0	1729.7	1729.5	1729.5	1729.5	1729.5	1729.5	1731.8	1734.2
167.5°	1759.8	1758.8	1757.8	1756.8	1756.3	1756.2	1756.2	1756.1	1756.0	1758.4	1760.7
170°	1775.6	1774.6	1773.6	1772.6	1771.9	1771.6	1771.3	1770.9	1770.6	1772.9	1775.3
172.5°	1786.7	1785.6	1784.6	1783.6	1782.9	1782.6	1782.2	1781.9	1781.5	1783.9	1786.2
175°	1800.0	1799.0	1798.0	1797.0	1796.1	1795.4	1794.7	1794.1	1793.4	1795.8	1798.2
177.5°	1805.7	1804.9	1804.1	1803.3	1802.6	1802.0	1801.5	1801.0	1800.4	1802.0	1803.7
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1017.8	1022.1	1022.1	1022.7	1027.4	1026.9	1026.6
5°	1083.2	1089.5	1090.4	1097.1	1101.7	1100.1	1096.0
7.5°	1144.8	1156.7	1165.8	1170.8	1176.8	1180.4	1178.8
10°	1193.7	1211.0	1221.5	1228.7	1237.4	1243.9	1241.5
12.5°	1238.0	1258.7	1273.1	1285.5	1286.6	1294.8	1289.2
15°	1307.2	1329.1	1331.3	1340.4	1347.6	1346.8	1347.2
17.5°	1330.0	1337.1	1338.5	1338.7	1338.8	1336.2	1330.4
20°	1321.9	1319.3	1312.8	1308.0	1299.3	1298.1	1290.6
22.5°	1283.2	1274.9	1258.8	1248.2	1234.7	1231.1	1229.0
25°	1207.2	1188.7	1163.1	1138.6	1131.8	1118.6	1122.4
27.5°	1102.9	1074.1	1046.3	1026.4	1008.5	988.7	994.3
30°	1029.6	997.1	958.0	927.8	908.6	889.7	886.3
32.5°	942.1	894.5	850.8	824.3	794.8	782.8	769.8
35°	791.2	744.9	701.5	664.2	642.7	626.0	611.0
37.5°	655.5	602.2	567.1	536.9	521.4	511.9	514.2
40°	571.4	524.6	499.0	475.9	461.6	454.8	456.4
42.5°	503.2	468.2	447.1	431.3	421.2	417.4	416.5
45°	425.8	406.2	388.8	379.8	374.9	370.7	368.1
47.5°	373.0	357.0	347.2	341.8	337.5	333.4	333.3
50°	341.3	330.7	324.0	318.3	314.9	311.8	314.6
52.5°	317.2	307.5	300.7	295.7	294.4	291.6	291.6
55°	281.3	273.8	268.9	264.4	262.2	260.6	258.7
57.5°	248.7	241.6	237.1	234.2	229.9	228.4	227.8
60°	225.5	219.8	215.3	211.6	209.6	206.7	206.7
62.5°	204.1	198.4	194.2	191.4	188.2	187.0	187.3
65°	173.1	168.5	164.4	161.4	160.7	158.4	159.2
67.5°	144.6	141.6	137.2	135.5	134.1	132.9	132.0
70°	125.6	122.6	120.3	118.1	116.9	116.9	116.9
72.5°	109.6	105.9	104.6	101.8	102.4	101.2	100.0
75°	84.8	82.6	81.5	80.3	78.5	78.5	78.5
77.5°	62.4	61.8	60.4	59.2	58.8	58.4	58.6
80°	48.3	47.9	47.2	47.2	46.4	46.0	45.2
82.5°	37.1	36.2	35.6	35.3	35.2	35.1	35.0
85°	21.1	20.4	20.4	20.7	20.0	20.0	20.4
87.5°	18.4	18.3	18.0	18.0	18.4	18.2	18.2
90°	51.3	50.6	50.4	50.8	51.1	51.4	51.8
92.5°	48.8	49.0	49.1	49.1	49.2	49.3	49.3
95°	97.5	97.5	97.0	96.4	95.7	95.0	94.4
97.5°	163.8	163.8	163.8	163.7	163.6	163.6	163.5
100°	210.1	210.1	210.0	209.5	209.2	208.9	208.5
102.5°	260.8	261.2	261.1	260.7	260.4	260.0	259.7
105°	337.0	337.6	338.0	338.0	338.0	338.0	338.0
107.5°	418.3	418.5	417.9	416.4	414.8	413.2	411.6
110°	473.5	473.5	472.9	471.9	470.9	469.9	468.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	528.3	527.5	526.6	525.9	525.2	524.4	523.7
115°	614.0	613.7	613.0	612.0	611.0	610.0	608.9
117.5°	696.1	695.3	694.3	693.3	692.3	691.3	690.2
120°	752.0	752.0	751.5	750.5	749.5	748.5	747.5
122.5°	808.1	807.3	806.5	805.8	805.1	804.3	803.5
125°	892.1	891.1	890.5	890.1	889.8	889.5	889.1
127.5°	973.7	972.5	971.4	970.3	969.2	968.2	967.0
130°	1030.2	1029.5	1028.4	1027.1	1025.8	1024.4	1023.1
132.5°	1083.8	1082.3	1081.0	1079.9	1078.8	1077.7	1076.6
135°	1165.2	1164.9	1164.2	1163.2	1162.2	1161.1	1160.1
137.5°	1242.1	1241.8	1241.0	1239.7	1238.3	1237.0	1235.6
140°	1294.0	1294.0	1293.4	1292.0	1290.7	1289.3	1288.0
142.5°	1341.2	1341.4	1340.9	1339.6	1338.2	1336.9	1335.4
145°	1412.3	1412.6	1412.1	1410.8	1409.5	1408.1	1406.7
147.5°	1475.0	1475.8	1475.5	1474.2	1472.9	1471.7	1470.4
150°	1514.8	1515.8	1515.8	1514.8	1513.8	1512.8	1511.8
152.5°	1554.6	1555.9	1555.9	1554.6	1553.3	1552.1	1550.7
155°	1605.2	1606.8	1607.2	1606.2	1605.2	1604.2	1603.2
157.5°	1652.0	1654.4	1654.7	1653.0	1651.4	1649.8	1648.2
160°	1679.2	1681.2	1681.6	1680.2	1678.9	1677.6	1676.2
162.5°	1704.5	1706.7	1707.1	1705.5	1703.8	1702.2	1700.5
165°	1736.6	1739.0	1739.3	1737.6	1736.0	1734.2	1732.5
167.5°	1763.1	1765.4	1765.7	1764.0	1762.2	1760.5	1758.7
170°	1777.7	1780.1	1780.2	1778.2	1776.2	1774.1	1772.1
172.5°	1788.7	1791.0	1791.2	1789.2	1787.2	1785.1	1783.1
175°	1800.5	1802.9	1803.1	1801.0	1799.0	1797.0	1794.9
177.5°	1805.3	1807.0	1807.0	1805.3	1803.7	1802.0	1800.4
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1

(END OF REPORT)