

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: P332174-927

Luminaire Tested: **S123DIW-S775D1535U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332174-927
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-S775D1535U927-4F0-1E-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: 7449.2 lumens
Efficiency: N/A
Efficacy: 109.4 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

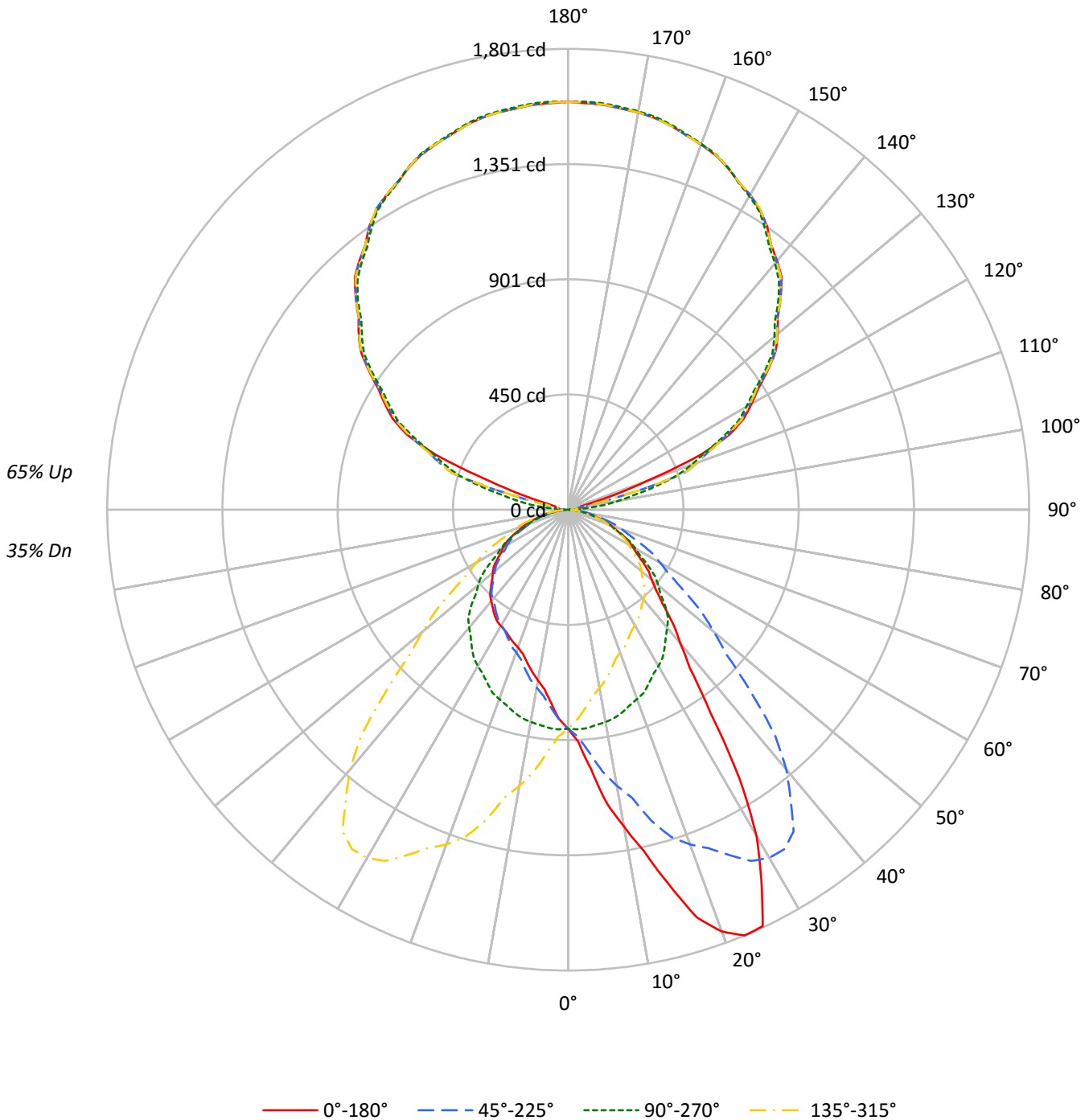
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9214	9214	9214	9214
5°	10988	9253	8200	9253
10°	13753	9206	7406	9206
15°	16868	9132	6896	9132
20°	20095	9016	6565	9016
25°	21338	8875	6492	8875
30°	18288	8772	6527	8772
35°	12720	8627	6594	8627
40°	9580	8455	6573	8455
45°	7954	8202	6491	8202
50°	7125	7681	6430	7681
55°	6662	7122	6351	7122
60°	6250	6536	6286	6536
65°	5873	5957	6082	5957
70°	5508	5297	5794	5297
75°	4932	4637	5311	4637
80°	4320	3806	4575	3806
85°	3384	2766	3075	2766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.1
10°-20°	270.4	3.6
20°-30°	453.8	6.1
30°-40°	513.8	6.9
40°-50°	460.8	6.2
50°-60°	371.8	5.0
60°-70°	259.1	3.5
70°-80°	136.2	1.8
80°-90°	37.8	0.5
90°-100°	58.0	0.8
100°-110°	276.2	3.7
110°-120°	663.5	8.9
120°-130°	844.9	11.3
130°-140°	902.7	12.1
140°-150°	844.1	11.3
150°-160°	680.9	9.1
160°-170°	439.5	5.9
170°-180°	151.5	2.0
0°-30°	808.5	10.9
0°-40°	1322.3	17.8
0°-60°	2154.9	28.9
0°-90°	2588.0	34.7
90°-120°	997.6	13.4
90°-150°	3589.3	48.2
90°-180°	4861.0	65.3
0°-180°	7449.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	856	856	856	856	856	
5°	1017	856	759	856	1017	105
15°	1514	820	619	820	1514	437
25°	1797	747	547	747	1797	788
35°	968	656	502	656	968	629
45°	522	539	426	539	522	413
55°	355	380	338	380	355	319
65°	231	234	239	234	231	230
75°	119	112	128	112	119	127
85°	27	22	25	22	27	33
90°	36	1	36	1	36	17
95°	45	72	45	72	45	38
105°	52	353	52	353	52	119
115°	696	662	696	662	696	643
125°	952	933	952	933	952	850
135°	1174	1162	1174	1162	1174	905
145°	1354	1341	1354	1341	1354	845
155°	1474	1477	1474	1477	1474	680
165°	1554	1557	1554	1557	1554	439
175°	1588	1594	1588	1594	1588	151
180°	1594	1594	1594	1594	1594	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	908.4	907.8	906.1	907.4	904.8	901.1	900.8	897.5	887.8	887.2	884.6
5°	1016.9	1013.6	1013.2	1012.7	1006.9	999.1	984.1	982.9	963.0	953.0	941.0
7.5°	1157.4	1159.1	1153.1	1147.8	1130.0	1118.3	1102.3	1081.8	1057.4	1032.6	1016.1
10°	1258.3	1271.9	1255.0	1243.3	1232.6	1212.2	1188.6	1159.1	1129.7	1095.3	1069.1
12.5°	1366.4	1373.2	1369.8	1358.8	1342.0	1311.1	1269.2	1236.8	1209.7	1152.3	1129.2
15°	1513.7	1539.1	1522.9	1485.5	1486.4	1456.9	1402.2	1342.0	1310.1	1259.9	1191.5
17.5°	1670.6	1673.8	1666.9	1635.9	1615.1	1574.6	1524.1	1466.5	1401.8	1341.0	1268.4
20°	1754.3	1751.8	1737.3	1721.1	1685.4	1653.9	1598.8	1534.5	1451.5	1391.8	1312.6
22.5°	1800.7	1796.6	1789.7	1776.2	1746.4	1712.6	1663.1	1592.8	1513.9	1431.6	1340.1
25°	1796.6	1802.0	1802.8	1799.0	1788.7	1768.4	1729.4	1673.4	1594.6	1488.8	1393.4
27.5°	1634.0	1641.6	1663.8	1683.5	1705.4	1727.8	1724.8	1697.0	1638.7	1547.4	1430.8
30°	1471.4	1454.8	1495.9	1547.8	1583.0	1645.2	1680.1	1682.1	1649.3	1571.0	1457.3
32.5°	1245.8	1264.1	1282.2	1346.0	1423.1	1492.9	1562.3	1618.1	1624.4	1572.3	1472.9
35°	968.0	990.8	1024.0	1057.1	1140.1	1211.4	1333.3	1439.5	1524.1	1535.3	1474.3
37.5°	780.0	791.3	812.3	845.5	899.8	984.4	1078.7	1212.9	1335.5	1426.6	1430.6
40°	681.8	685.2	708.8	734.0	778.0	847.7	932.7	1051.3	1198.1	1325.5	1378.6
42.5°	608.2	615.4	625.5	649.7	684.8	737.2	816.3	914.3	1048.8	1195.4	1299.3
45°	522.5	530.8	537.1	553.3	578.1	613.4	668.5	758.1	860.5	1011.9	1151.7
47.5°	466.0	466.7	471.3	483.5	500.4	526.9	565.9	623.4	717.5	840.2	983.7
50°	425.5	432.1	433.8	443.3	456.6	476.1	508.4	557.4	634.5	742.4	874.3
52.5°	397.0	398.9	403.6	410.5	422.1	437.3	465.3	503.7	564.2	656.1	777.4
55°	355.0	355.0	359.6	365.0	371.6	385.2	403.9	432.1	478.2	549.5	649.9
57.5°	316.2	318.2	321.5	323.1	328.8	337.9	353.4	374.9	409.2	464.1	543.8
60°	290.3	294.1	293.7	296.9	301.9	309.0	322.3	339.7	370.3	414.3	481.5
62.5°	267.8	267.5	267.4	271.4	276.4	283.1	291.7	306.8	332.9	371.9	429.0
65°	230.6	229.7	232.7	235.1	236.8	241.8	248.4	261.7	279.1	308.2	352.5
67.5°	197.6	195.2	196.8	197.6	200.4	204.3	210.5	218.7	232.6	255.9	289.3
70°	175.0	172.9	172.5	173.3	175.9	178.7	183.3	191.2	204.1	222.7	247.2
72.5°	151.8	150.4	150.3	152.1	153.3	155.2	158.4	165.6	175.9	189.9	212.7
75°	118.6	118.6	118.6	119.0	120.3	121.9	124.5	128.2	136.0	146.0	161.3
77.5°	88.9	88.8	88.3	88.2	90.1	90.9	91.4	94.9	99.3	106.0	117.2
80°	69.7	67.6	68.4	69.7	70.5	70.9	72.2	73.0	76.8	80.5	88.3
82.5°	51.7	50.0	50.1	52.1	52.3	52.7	53.9	55.1	56.5	59.9	64.1
85°	27.4	27.4	27.8	27.8	28.2	27.8	29.0	29.5	29.5	31.5	34.0
87.5°	17.0	16.3	16.5	16.7	16.3	16.5	16.6	16.7	16.9	17.0	16.6
90°	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5	29.5	28.4	25.0
92.5°	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7	32.0	30.3	27.7
95°	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4	38.6	36.7	33.8
97.5°	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4	40.2	38.1	35.1
100°	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3	41.2	39.1	37.2
102.5°	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9	71.4	78.0	122.8
105°	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2	212.8	259.4	283.0
107.5°	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0	441.2	475.4	471.7
110°	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7	525.5	534.1	531.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1	594.0	593.8	590.9
115°	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1	682.4	679.8	677.4
117.5°	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4	765.2	763.2	761.9
120°	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4	819.3	817.1	816.3
122.5°	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1	872.7	871.2	870.1
125°	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5	948.0	947.5	946.4
127.5°	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0	1022.2	1021.4	1020.1
130°	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9	1066.9	1065.9	1064.9
132.5°	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6	1109.5	1108.5	1107.6
135°	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6	1172.6
137.5°	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8	1231.5	1230.3	1229.7
140°	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3	1268.3	1267.2	1266.4
142.5°	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9	1303.1	1302.3	1301.5
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3	1351.8	1351.3	1350.8
147.5°	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7	1395.2	1394.6	1394.1
150°	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2	1421.7	1421.2	1420.6
152.5°	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8	1444.9	1443.9	1443.6
155°	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3	1476.9	1475.6	1475.4
157.5°	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5	1504.9	1503.3	1503.6
160°	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7	1521.1	1519.5	1519.7
162.5°	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2	1535.5	1533.7	1533.9
165°	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8	1554.7	1552.6	1552.9
167.5°	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8	1567.8
170°	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3	1576.3
172.5°	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2	1584.1	1582.0	1581.8
175°	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0	1591.2	1589.4	1589.0
177.5°	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5	1593.9	1592.2	1592.0
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	882.5	879.9	877.2	872.6	868.6	862.9	861.3	859.3	853.3	848.0	844.1
5°	936.4	926.5	912.0	898.7	888.0	873.4	865.1	856.4	844.0	832.7	823.6
7.5°	992.8	973.3	950.7	926.3	903.6	881.7	864.0	848.3	830.8	814.4	801.5
10°	1037.6	1009.4	977.9	943.9	914.9	886.7	863.0	842.3	819.9	800.4	784.3
12.5°	1088.7	1046.9	1003.5	962.2	927.8	888.7	860.1	833.7	808.3	784.8	766.7
15°	1149.2	1096.1	1044.7	987.9	935.6	886.7	852.7	819.5	790.0	766.0	742.8
17.5°	1204.3	1144.1	1076.3	1007.3	944.2	886.2	838.6	801.1	764.2	734.8	711.7
20°	1235.5	1167.0	1090.3	1018.6	948.9	884.2	831.9	787.1	747.3	716.2	690.1
22.5°	1262.3	1182.3	1102.9	1026.2	948.6	878.8	819.7	773.6	730.4	700.0	672.2
25°	1290.2	1194.4	1114.8	1024.8	938.1	865.9	799.5	747.3	704.2	668.5	639.9
27.5°	1314.1	1193.6	1099.1	1002.3	921.7	849.4	778.5	722.5	676.7	637.9	608.9
30°	1330.0	1195.2	1082.8	987.1	905.8	831.1	762.2	705.8	657.7	618.4	591.0
32.5°	1340.0	1194.2	1067.9	965.8	880.5	814.5	744.7	686.3	636.8	598.1	571.7
35°	1345.8	1186.9	1042.2	921.9	839.8	775.5	717.1	656.5	604.7	568.5	538.8
37.5°	1334.2	1171.6	1012.3	879.6	789.7	726.4	677.2	625.7	576.1	536.3	510.6
40°	1315.9	1161.7	989.1	849.8	755.2	694.3	652.4	601.7	552.8	515.1	491.0
42.5°	1281.0	1141.4	963.5	816.6	719.4	658.4	619.9	577.6	531.2	495.8	471.8
45°	1196.0	1097.3	925.3	766.8	666.5	603.4	569.4	538.8	496.9	462.4	441.6
47.5°	1078.1	1031.1	869.8	714.3	611.2	550.6	515.2	490.5	459.9	432.1	412.3
50°	996.2	976.7	832.3	678.5	574.4	515.1	481.1	458.7	436.7	408.9	390.7
52.5°	901.6	913.6	788.5	641.4	536.9	478.6	446.6	428.8	408.8	386.0	370.1
55°	768.5	812.0	712.9	578.9	481.1	425.5	395.2	379.5	367.9	350.9	337.2
57.5°	643.8	699.3	631.1	514.7	426.3	378.3	349.3	332.1	324.6	315.8	305.0
60°	569.8	624.6	572.7	471.5	389.4	343.8	318.1	303.6	296.1	289.9	280.7
62.5°	503.8	559.2	515.6	427.8	353.2	310.9	288.6	274.4	268.5	265.3	257.5
65°	413.0	460.7	431.7	359.6	301.5	264.2	243.8	233.9	228.5	227.3	222.3
67.5°	336.2	372.5	351.3	298.3	252.5	220.3	203.0	194.6	190.4	190.0	186.3
70°	285.7	319.7	303.6	255.5	216.1	190.8	175.9	168.3	165.9	165.5	163.4
72.5°	246.6	270.3	257.5	217.3	186.9	163.9	153.0	145.1	142.4	142.9	141.5
75°	182.4	200.3	192.8	165.1	140.6	125.6	116.5	111.5	109.1	110.4	108.7
77.5°	131.3	142.6	135.9	116.6	101.6	90.7	84.1	81.0	78.7	78.7	77.9
80°	99.1	105.8	102.0	90.4	78.0	68.8	63.5	61.4	60.1	59.7	59.3
82.5°	70.6	76.2	71.9	63.8	55.4	49.9	46.9	44.1	43.3	43.5	43.0
85°	35.6	37.7	36.0	31.1	27.8	25.3	23.6	22.4	21.5	21.9	21.2
87.5°	16.6	16.2	14.6	12.6	11.4	9.9	9.4	8.2	8.1	8.6	8.8
90°	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2	3.8	6.4	9.1
92.5°	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0	21.3	20.5	19.8
95°	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2	61.5	50.7	39.8
97.5°	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2	140.4	135.5	130.6
100°	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2	205.4	210.6	215.9
102.5°	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7	266.5	270.3	274.0
105°	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9	355.8	358.7	361.6
107.5°	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1	450.4	452.7	455.1
110°	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6	513.7	515.8	517.9



TEST NUMBER: P332174-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3	574.2	576.1	578.0
115°	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0	663.6	665.2	666.8
117.5°	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9	750.9	752.8	754.8
120°	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0	805.3	807.7	810.1
122.5°	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9	859.8	861.8	863.7
125°	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2	935.3	937.5	939.5
127.5°	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2	1008.3	1010.4	1012.5
130°	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6	1053.8	1055.9	1058.0
132.5°	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3	1097.3	1099.5	1101.5
135°	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8	1163.4	1165.0	1166.6
137.5°	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6	1220.7	1222.7	1224.6
140°	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6	1258.1	1259.7	1261.3
142.5°	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6	1293.2	1294.7	1296.3
145°	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6	1342.4	1344.3	1346.2
147.5°	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8	1388.1	1389.3	1390.4
150°	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2	1416.0	1416.8	1417.6
152.5°	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8	1441.2	1441.5	1441.9
155°	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8	1476.3	1475.8	1475.3
157.5°	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8	1504.8	1504.7	1504.6
160°	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9	1521.5	1521.3	1521.1
162.5°	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9	1537.2	1536.6	1535.9
165°	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4	1556.6	1555.8	1555.0
167.5°	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5	1571.5	1570.4	1569.4
170°	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0	1580.0	1578.9	1577.9
172.5°	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7	1585.5	1584.2	1582.9
175°	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0	1592.8	1591.4	1590.1
177.5°	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9	1594.9	1593.9	1592.8
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	841.7	839.4	836.1	831.1	827.1	820.8	820.8	821.8	821.8	821.5	820.8
5°	816.2	809.9	802.5	793.8	784.7	775.5	773.9	770.6	768.1	766.4	764.3
7.5°	789.3	778.2	767.3	755.1	744.0	734.8	728.4	723.1	719.7	716.1	713.4
10°	771.0	757.2	744.4	731.6	717.5	706.3	699.3	694.3	690.5	687.2	685.6
12.5°	749.4	733.7	719.5	707.3	691.9	680.4	673.7	671.4	666.9	660.0	656.3
15°	717.9	703.4	686.3	667.7	660.2	646.1	638.3	634.5	632.0	626.6	625.0
17.5°	690.9	671.9	652.8	638.9	625.0	613.6	609.2	604.6	601.3	596.8	595.6
20°	669.4	652.4	634.9	620.0	605.5	593.0	589.3	586.0	582.7	580.6	578.9
22.5°	647.5	630.5	616.0	602.1	586.6	578.5	574.4	570.8	568.4	567.0	565.4
25°	616.7	601.7	585.6	573.1	560.7	555.3	552.8	550.7	549.1	547.0	546.6
27.5°	589.1	572.9	559.8	548.2	539.2	534.7	532.3	531.3	531.7	532.4	532.9
30°	568.5	553.7	542.9	532.9	524.7	520.5	520.1	520.1	521.7	522.1	523.0
32.5°	549.7	537.4	526.6	517.0	510.7	507.9	509.5	509.5	510.8	511.8	513.3
35°	522.1	511.4	503.0	494.8	489.4	490.6	491.5	492.3	494.3	496.9	498.5
37.5°	495.8	486.5	477.8	471.3	468.9	471.1	473.1	474.8	477.3	479.2	480.9
40°	476.9	469.8	461.6	455.7	456.6	457.9	459.5	461.6	463.7	464.9	466.6
42.5°	459.3	451.9	445.7	440.8	442.0	443.6	444.6	445.7	448.1	450.3	451.3
45°	432.5	426.7	421.0	418.0	418.9	419.7	420.5	421.8	423.8	425.5	426.0
47.5°	402.4	398.4	394.5	391.7	393.0	392.7	393.7	396.4	397.0	398.1	400.4
50°	383.2	379.5	374.9	374.1	374.1	374.1	374.5	377.8	377.8	379.5	381.1
52.5°	361.9	359.6	356.6	355.1	354.5	354.5	356.2	357.9	358.5	360.9	362.6
55°	330.5	328.0	325.6	324.3	323.4	324.3	327.6	328.4	330.5	331.8	333.0
57.5°	297.8	295.9	293.9	293.2	293.0	294.1	296.0	298.4	299.0	302.8	304.7
60°	276.2	273.3	271.6	271.6	270.8	274.6	273.7	277.9	278.7	281.1	284.1
62.5°	254.0	250.1	249.4	249.4	250.6	251.7	252.8	254.6	256.8	259.9	262.2
65°	218.2	216.1	219.0	218.6	217.7	220.2	220.2	222.3	224.7	227.7	232.3
67.5°	184.2	183.2	183.4	183.4	184.7	186.1	187.2	189.0	192.0	195.1	198.0
70°	161.3	162.6	160.5	162.2	163.4	163.8	164.6	167.2	170.5	172.5	175.9
72.5°	139.1	139.0	139.3	139.9	141.2	141.9	142.8	145.6	149.2	151.0	153.6
75°	107.0	106.5	107.8	107.8	109.9	110.7	111.5	112.8	116.1	118.6	120.6
77.5°	78.1	78.7	78.3	79.8	79.2	79.4	81.9	83.2	83.5	88.4	89.5
80°	58.9	59.7	60.1	60.5	61.0	60.1	63.1	64.2	64.2	67.2	69.2
82.5°	42.3	42.8	43.9	44.3	44.4	45.2	45.5	46.3	47.4	48.6	51.3
85°	21.2	22.4	22.8	22.4	22.8	21.9	23.2	23.6	24.1	24.1	24.1
87.5°	9.0	9.9	10.3	11.2	11.6	12.7	12.8	12.4	12.6	13.9	12.7
90°	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5	31.6	32.6	33.4
92.5°	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7	35.4	37.1	38.0
95°	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4	42.2	44.0	45.0
97.5°	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4	44.4	46.6	47.8
100°	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3	45.4	47.5	48.7
102.5°	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9	58.4	51.8	48.8
105°	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2	119.6	73.0	50.0
107.5°	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0	372.9	338.7	304.1
110°	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7	508.0	499.4	476.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1	594.3	594.5	590.6
115°	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1	687.7	690.3	692.1
117.5°	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4	769.4	771.6	772.8
120°	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4	823.5	825.6	826.6
122.5°	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1	875.6	877.1	877.9
125°	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5	949.0	949.5	950.1
127.5°	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0	1023.9	1024.7	1024.8
130°	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9	1069.1	1070.1	1070.3
132.5°	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6	1111.7	1112.7	1112.9
135°	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8
137.5°	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8	1234.1	1235.3	1235.6
140°	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3	1270.3	1271.4	1271.7
142.5°	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9	1304.8	1305.6	1305.7
145°	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3	1352.9	1353.4	1353.7
147.5°	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7	1396.2	1396.8	1396.4
150°	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2	1422.8	1423.2	1423.2
152.5°	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8	1446.8	1447.7	1447.6
155°	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3	1479.6	1480.9	1480.7
157.5°	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5	1508.1	1509.7	1509.4
160°	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7	1524.2	1525.7	1525.7
162.5°	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2	1539.1	1540.8	1540.9
165°	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8	1558.9	1561.1	1561.2
167.5°	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2
170°	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8
172.5°	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2	1588.3	1590.4	1590.3
175°	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0	1594.8	1596.7	1596.6
177.5°	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5	1597.2	1598.9	1598.7
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	818.5	818.2	820.5	818.8	820.5	818.2	818.5	820.8	821.5	821.8	821.8
5°	761.8	763.1	758.9	758.9	758.9	763.1	761.8	764.3	766.4	768.1	770.6
7.5°	711.4	709.6	709.7	707.5	709.7	709.6	711.4	713.4	716.1	719.7	723.1
10°	680.6	678.1	677.2	677.6	677.2	678.1	680.6	685.6	687.2	690.5	694.3
12.5°	655.0	654.5	649.0	649.1	649.0	654.5	655.0	656.3	660.0	666.9	671.4
15°	625.0	617.1	616.2	618.8	616.2	617.1	625.0	625.0	626.6	632.0	634.5
17.5°	594.8	590.7	591.0	589.7	591.0	590.7	594.8	595.6	596.8	601.3	604.6
20°	578.9	576.5	576.1	573.1	576.1	576.5	578.9	578.9	580.6	582.7	586.0
22.5°	564.4	563.6	563.8	560.5	563.8	563.6	564.4	565.4	567.0	568.4	570.8
25°	546.2	548.3	546.6	546.6	546.6	548.3	546.2	546.6	547.0	549.1	550.7
27.5°	533.9	533.9	533.0	533.0	533.0	533.9	533.9	532.9	532.4	531.7	531.3
30°	524.7	524.2	525.1	525.1	525.1	524.2	524.7	523.0	522.1	521.7	520.1
32.5°	515.3	515.9	516.1	516.4	516.1	515.9	515.3	513.3	511.8	510.8	509.5
35°	501.0	501.4	502.6	501.8	502.6	501.4	501.0	498.5	496.9	494.3	492.3
37.5°	481.6	483.5	483.1	483.7	483.1	483.5	481.6	480.9	479.2	477.3	474.8
40°	467.0	468.3	467.8	467.8	467.8	468.3	467.0	466.6	464.9	463.7	461.6
42.5°	452.0	453.0	451.9	451.2	451.9	453.0	452.0	451.3	450.3	448.1	445.7
45°	427.5	426.7	428.0	426.4	428.0	426.7	427.5	426.0	425.5	423.8	421.8
47.5°	400.2	401.0	401.4	402.6	401.4	401.0	400.2	400.4	398.1	397.0	396.4
50°	382.0	384.4	384.4	384.0	384.4	384.4	382.0	381.1	379.5	377.8	377.8
52.5°	364.0	365.2	366.9	366.8	366.9	365.2	364.0	362.6	360.9	358.5	357.9
55°	336.4	337.2	338.0	338.4	338.0	337.2	336.4	333.0	331.8	330.5	328.4
57.5°	307.6	307.3	309.3	309.9	309.3	307.3	307.6	304.7	302.8	299.0	298.4
60°	287.4	287.4	290.7	292.0	290.7	287.4	287.4	284.1	281.1	278.7	277.9
62.5°	265.9	267.2	270.5	268.7	270.5	267.2	265.9	262.2	259.9	256.8	254.6
65°	234.3	237.7	237.3	238.8	237.3	237.7	234.3	232.3	227.7	224.7	222.3
67.5°	201.4	203.4	206.4	206.7	206.4	203.4	201.4	198.0	195.1	192.0	189.0
70°	179.2	181.3	182.9	184.1	182.9	181.3	179.2	175.9	172.5	170.5	167.2
72.5°	157.6	158.7	162.6	160.9	162.6	158.7	157.6	153.6	151.0	149.2	145.6
75°	123.6	126.5	129.0	127.7	129.0	126.5	123.6	120.6	118.6	116.1	112.8
77.5°	91.4	94.3	95.5	94.4	95.5	94.3	91.4	89.5	88.4	83.5	83.2
80°	72.2	71.8	74.2	73.8	74.2	71.8	72.2	69.2	67.2	64.2	64.2
82.5°	52.9	52.5	53.6	53.9	53.6	52.5	52.9	51.3	48.6	47.4	46.3
85°	25.7	26.9	25.3	24.9	25.3	26.9	25.7	24.1	24.1	24.1	23.6
87.5°	12.8	12.8	12.7	12.4	12.7	12.8	12.8	12.7	13.9	12.6	12.4
90°	34.0	34.5	35.0	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5
92.5°	38.3	38.7	39.0	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7
95°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4
97.5°	48.0	48.2	48.6	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4
100°	49.0	49.2	49.5	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3
102.5°	49.3	49.7	50.2	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9
105°	50.5	51.1	51.6	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2
107.5°	269.0	233.9	198.8	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0
110°	438.6	400.9	363.3	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	582.6	574.6	566.7	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1
115°	693.2	694.3	695.3	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1
117.5°	772.9	773.2	773.4	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4
120°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4
122.5°	878.1	878.3	878.5	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1
125°	950.6	951.1	951.6	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5
127.5°	1024.4	1023.8	1023.3	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0
130°	1069.8	1069.3	1068.7	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9
132.5°	1112.1	1111.4	1110.6	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6
135°	1176.0	1175.2	1174.4	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2
137.5°	1235.2	1234.6	1234.1	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8
140°	1271.1	1270.7	1270.1	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3
142.5°	1305.0	1304.2	1303.5	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3
147.5°	1395.2	1394.0	1392.7	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7
150°	1422.4	1421.6	1420.8	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2
152.5°	1446.4	1445.1	1443.9	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8
155°	1479.2	1477.6	1476.0	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3
157.5°	1507.4	1505.3	1503.2	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5
160°	1523.8	1521.9	1520.1	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7
162.5°	1539.3	1537.6	1536.0	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2
165°	1559.3	1557.5	1555.6	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8
167.5°	1574.1	1572.0	1569.9	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0
170°	1582.6	1580.5	1578.4	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5
172.5°	1588.0	1585.7	1583.3	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2
175°	1594.4	1592.4	1590.2	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0
177.5°	1596.6	1594.5	1592.4	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	820.8	820.8	827.1	831.1	836.1	839.4	841.7	844.1	848.0	853.3	859.3
5°	773.9	775.5	784.7	793.8	802.5	809.9	816.2	823.6	832.7	844.0	856.4
7.5°	728.4	734.8	744.0	755.1	767.3	778.2	789.3	801.5	814.4	830.8	848.3
10°	699.3	706.3	717.5	731.6	744.4	757.2	771.0	784.3	800.4	819.9	842.3
12.5°	673.7	680.4	691.9	707.3	719.5	733.7	749.4	766.7	784.8	808.3	833.7
15°	638.3	646.1	660.2	667.7	686.3	703.4	717.9	742.8	766.0	790.0	819.5
17.5°	609.2	613.6	625.0	638.9	652.8	671.9	690.9	711.7	734.8	764.2	801.1
20°	589.3	593.0	605.5	620.0	634.9	652.4	669.4	690.1	716.2	747.3	787.1
22.5°	574.4	578.5	586.6	602.1	616.0	630.5	647.5	672.2	700.0	730.4	773.6
25°	552.8	555.3	560.7	573.1	585.6	601.7	616.7	639.9	668.5	704.2	747.3
27.5°	532.3	534.7	539.2	548.2	559.8	572.9	589.1	608.9	637.9	676.7	722.5
30°	520.1	520.5	524.7	532.9	542.9	553.7	568.5	591.0	618.4	657.7	705.8
32.5°	509.5	507.9	510.7	517.0	526.6	537.4	549.7	571.7	598.1	636.8	686.3
35°	491.5	490.6	489.4	494.8	503.0	511.4	522.1	538.8	568.5	604.7	656.5
37.5°	473.1	471.1	468.9	471.3	477.8	486.5	495.8	510.6	536.3	576.1	625.7
40°	459.5	457.9	456.6	455.7	461.6	469.8	476.9	491.0	515.1	552.8	601.7
42.5°	444.6	443.6	442.0	440.8	445.7	451.9	459.3	471.8	495.8	531.2	577.6
45°	420.5	419.7	418.9	418.0	421.0	426.7	432.5	441.6	462.4	496.9	538.8
47.5°	393.7	392.7	393.0	391.7	394.5	398.4	402.4	412.3	432.1	459.9	490.5
50°	374.5	374.1	374.1	374.1	374.9	379.5	383.2	390.7	408.9	436.7	458.7
52.5°	356.2	354.5	354.5	355.1	356.6	359.6	361.9	370.1	386.0	408.8	428.8
55°	327.6	324.3	323.4	324.3	325.6	328.0	330.5	337.2	350.9	367.9	379.5
57.5°	296.0	294.1	293.0	293.2	293.9	295.9	297.8	305.0	315.8	324.6	332.1
60°	273.7	274.6	270.8	271.6	271.6	273.3	276.2	280.7	289.9	296.1	303.6
62.5°	252.8	251.7	250.6	249.4	249.4	250.1	254.0	257.5	265.3	268.5	274.4
65°	220.2	220.2	217.7	218.6	219.0	216.1	218.2	222.3	227.3	228.5	233.9
67.5°	187.2	186.1	184.7	183.4	183.4	183.2	184.2	186.3	190.0	190.4	194.6
70°	164.6	163.8	163.4	162.2	160.5	162.6	161.3	163.4	165.5	165.9	168.3
72.5°	142.8	141.9	141.2	139.9	139.3	139.0	139.1	141.5	142.9	142.4	145.1
75°	111.5	110.7	109.9	107.8	107.8	106.5	107.0	108.7	110.4	109.1	111.5
77.5°	81.9	79.4	79.2	79.8	78.3	78.7	78.1	77.9	78.7	78.7	81.0
80°	63.1	60.1	61.0	60.5	60.1	59.7	58.9	59.3	59.7	60.1	61.4
82.5°	45.5	45.2	44.4	44.3	43.9	42.8	42.3	43.0	43.5	43.3	44.1
85°	23.2	21.9	22.8	22.4	22.8	22.4	21.2	21.2	21.9	21.5	22.4
87.5°	12.8	12.7	11.6	11.2	10.3	9.9	9.0	8.8	8.6	8.1	8.2
90°	29.5	28.4	25.0	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2
92.5°	32.0	30.3	27.7	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0
95°	38.6	36.7	33.8	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2
97.5°	40.2	38.1	57.1	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2
100°	41.2	39.1	80.2	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2
102.5°	71.4	78.0	122.8	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7
105°	212.8	259.4	283.0	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9
107.5°	441.2	475.4	471.7	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1
110°	525.5	534.1	531.2	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	594.0	593.8	590.9	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3
115°	682.4	679.8	677.4	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0
117.5°	765.2	763.2	761.9	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9
120°	819.3	817.1	816.3	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0
122.5°	872.7	871.2	870.1	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9
125°	948.0	947.5	946.4	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2
127.5°	1022.2	1021.4	1020.1	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2
130°	1066.9	1065.9	1064.9	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6
132.5°	1109.5	1108.5	1107.6	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3
135°	1174.4	1173.6	1172.6	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8
137.5°	1231.5	1230.3	1229.7	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6
140°	1268.3	1267.2	1266.4	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6
142.5°	1303.1	1302.3	1301.5	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6
145°	1351.8	1351.3	1350.8	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6
147.5°	1395.2	1394.6	1394.1	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8
150°	1421.7	1421.2	1420.6	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2
152.5°	1444.9	1443.9	1443.6	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8
155°	1476.9	1475.6	1475.4	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8
157.5°	1504.9	1503.3	1503.6	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8
160°	1521.1	1519.5	1519.7	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9
162.5°	1535.5	1533.7	1533.9	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9
165°	1554.7	1552.6	1552.9	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4
167.5°	1569.9	1567.8	1567.8	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5
170°	1578.4	1576.3	1576.3	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0
172.5°	1584.1	1582.0	1581.8	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7
175°	1591.2	1589.4	1589.0	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0
177.5°	1593.9	1592.2	1592.0	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	861.3	862.9	868.6	872.6	877.2	879.9	882.5	884.6	887.2	887.8	897.5
5°	865.1	873.4	888.0	898.7	912.0	926.5	936.4	941.0	953.0	963.0	982.9
7.5°	864.0	881.7	903.6	926.3	950.7	973.3	992.8	1016.1	1032.6	1057.4	1081.8
10°	863.0	886.7	914.9	943.9	977.9	1009.4	1037.6	1069.1	1095.3	1129.7	1159.1
12.5°	860.1	888.7	927.8	962.2	1003.5	1046.9	1088.7	1129.2	1152.3	1209.7	1236.8
15°	852.7	886.7	935.6	987.9	1044.7	1096.1	1149.2	1191.5	1259.9	1310.1	1342.0
17.5°	838.6	886.2	944.2	1007.3	1076.3	1144.1	1204.3	1268.4	1341.0	1401.8	1466.5
20°	831.9	884.2	948.9	1018.6	1090.3	1167.0	1235.5	1312.6	1391.8	1451.5	1534.5
22.5°	819.7	878.8	948.6	1026.2	1102.9	1182.3	1262.3	1340.1	1431.6	1513.9	1592.8
25°	799.5	865.9	938.1	1024.8	1114.8	1194.4	1290.2	1393.4	1488.8	1594.6	1673.4
27.5°	778.5	849.4	921.7	1002.3	1099.1	1193.6	1314.1	1430.8	1547.4	1638.7	1697.0
30°	762.2	831.1	905.8	987.1	1082.8	1195.2	1330.0	1457.3	1571.0	1649.3	1682.1
32.5°	744.7	814.5	880.5	965.8	1067.9	1194.2	1340.0	1472.9	1572.3	1624.4	1618.1
35°	717.1	775.5	839.8	921.9	1042.2	1186.9	1345.8	1474.3	1535.3	1524.1	1439.5
37.5°	677.2	726.4	789.7	879.6	1012.3	1171.6	1334.2	1430.6	1426.6	1335.5	1212.9
40°	652.4	694.3	755.2	849.8	989.1	1161.7	1315.9	1378.6	1325.5	1198.1	1051.3
42.5°	619.9	658.4	719.4	816.6	963.5	1141.4	1281.0	1299.3	1195.4	1048.8	914.3
45°	569.4	603.4	666.5	766.8	925.3	1097.3	1196.0	1151.7	1011.9	860.5	758.1
47.5°	515.2	550.6	611.2	714.3	869.8	1031.1	1078.1	983.7	840.2	717.5	623.4
50°	481.1	515.1	574.4	678.5	832.3	976.7	996.2	874.3	742.4	634.5	557.4
52.5°	446.6	478.6	536.9	641.4	788.5	913.6	901.6	777.4	656.1	564.2	503.7
55°	395.2	425.5	481.1	578.9	712.9	812.0	768.5	649.9	549.5	478.2	432.1
57.5°	349.3	378.3	426.3	514.7	631.1	699.3	643.8	543.8	464.1	409.2	374.9
60°	318.1	343.8	389.4	471.5	572.7	624.6	569.8	481.5	414.3	370.3	339.7
62.5°	288.6	310.9	353.2	427.8	515.6	559.2	503.8	429.0	371.9	332.9	306.8
65°	243.8	264.2	301.5	359.6	431.7	460.7	413.0	352.5	308.2	279.1	261.7
67.5°	203.0	220.3	252.5	298.3	351.3	372.5	336.2	289.3	255.9	232.6	218.7
70°	175.9	190.8	216.1	255.5	303.6	319.7	285.7	247.2	222.7	204.1	191.2
72.5°	153.0	163.9	186.9	217.3	257.5	270.3	246.6	212.7	189.9	175.9	165.6
75°	116.5	125.6	140.6	165.1	192.8	200.3	182.4	161.3	146.0	136.0	128.2
77.5°	84.1	90.7	101.6	116.6	135.9	142.6	131.3	117.2	106.0	99.3	94.9
80°	63.5	68.8	78.0	90.4	102.0	105.8	99.1	88.3	80.5	76.8	73.0
82.5°	46.9	49.9	55.4	63.8	71.9	76.2	70.6	64.1	59.9	56.5	55.1
85°	23.6	25.3	27.8	31.1	36.0	37.7	35.6	34.0	31.5	29.5	29.5
87.5°	9.4	9.9	11.4	12.6	14.6	16.2	16.6	16.6	17.0	16.9	16.7
90°	3.8	6.4	9.1	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5
92.5°	21.3	20.5	19.8	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7
95°	61.5	50.7	39.8	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4
97.5°	140.4	135.5	130.6	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4
100°	205.4	210.6	215.9	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3
102.5°	266.5	270.3	274.0	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9
105°	355.8	358.7	361.6	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2
107.5°	450.4	452.7	455.1	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0
110°	513.7	515.8	517.9	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.2	576.1	578.0	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1
115°	663.6	665.2	666.8	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1
117.5°	750.9	752.8	754.8	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4
120°	805.3	807.7	810.1	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4
122.5°	859.8	861.8	863.7	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1
125°	935.3	937.5	939.5	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5
127.5°	1008.3	1010.4	1012.5	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0
130°	1053.8	1055.9	1058.0	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9
132.5°	1097.3	1099.5	1101.5	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6
135°	1163.4	1165.0	1166.6	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2
137.5°	1220.7	1222.7	1224.6	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8
140°	1258.1	1259.7	1261.3	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3
142.5°	1293.2	1294.7	1296.3	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9
145°	1342.4	1344.3	1346.2	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3
147.5°	1388.1	1389.3	1390.4	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7
150°	1416.0	1416.8	1417.6	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2
152.5°	1441.2	1441.5	1441.9	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8
155°	1476.3	1475.8	1475.3	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3
157.5°	1504.8	1504.7	1504.6	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5
160°	1521.5	1521.3	1521.1	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7
162.5°	1537.2	1536.6	1535.9	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2
165°	1556.6	1555.8	1555.0	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8
167.5°	1571.5	1570.4	1569.4	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0
170°	1580.0	1578.9	1577.9	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5
172.5°	1585.5	1584.2	1582.9	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2
175°	1592.8	1591.4	1590.1	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0
177.5°	1594.9	1593.9	1592.8	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	900.8	901.1	904.8	907.4	906.1	907.8	908.4
5°	984.1	999.1	1006.9	1012.7	1013.2	1013.6	1016.9
7.5°	1102.3	1118.3	1130.0	1147.8	1153.1	1159.1	1157.4
10°	1188.6	1212.2	1232.6	1243.3	1255.0	1271.9	1258.3
12.5°	1269.2	1311.1	1342.0	1358.8	1369.8	1373.2	1366.4
15°	1402.2	1456.9	1486.4	1485.5	1522.9	1539.1	1513.7
17.5°	1524.1	1574.6	1615.1	1635.9	1666.9	1673.8	1670.6
20°	1598.8	1653.9	1685.4	1721.1	1737.3	1751.8	1754.3
22.5°	1663.1	1712.6	1746.4	1776.2	1789.7	1796.6	1800.7
25°	1729.4	1768.4	1788.7	1799.0	1802.8	1802.0	1796.6
27.5°	1724.8	1727.8	1705.4	1683.5	1663.8	1641.6	1634.0
30°	1680.1	1645.2	1583.0	1547.8	1495.9	1454.8	1471.4
32.5°	1562.3	1492.9	1423.1	1346.0	1282.2	1264.1	1245.8
35°	1333.3	1211.4	1140.1	1057.1	1024.0	990.8	968.0
37.5°	1078.7	984.4	899.8	845.5	812.3	791.3	780.0
40°	932.7	847.7	778.0	734.0	708.8	685.2	681.8
42.5°	816.3	737.2	684.8	649.7	625.5	615.4	608.2
45°	668.5	613.4	578.1	553.3	537.1	530.8	522.5
47.5°	565.9	526.9	500.4	483.5	471.3	466.7	466.0
50°	508.4	476.1	456.6	443.3	433.8	432.1	425.5
52.5°	465.3	437.3	422.1	410.5	403.6	398.9	397.0
55°	403.9	385.2	371.6	365.0	359.6	355.0	355.0
57.5°	353.4	337.9	328.8	323.1	321.5	318.2	316.2
60°	322.3	309.0	301.9	296.9	293.7	294.1	290.3
62.5°	291.7	283.1	276.4	271.4	267.4	267.5	267.8
65°	248.4	241.8	236.8	235.1	232.7	229.7	230.6
67.5°	210.5	204.3	200.4	197.6	196.8	195.2	197.6
70°	183.3	178.7	175.9	173.3	172.5	172.9	175.0
72.5°	158.4	155.2	153.3	152.1	150.3	150.4	151.8
75°	124.5	121.9	120.3	119.0	118.6	118.6	118.6
77.5°	91.4	90.9	90.1	88.2	88.3	88.8	88.9
80°	72.2	70.9	70.5	69.7	68.4	67.6	69.7
82.5°	53.9	52.7	52.3	52.1	50.1	50.0	51.7
85°	29.0	27.8	28.2	27.8	27.8	27.4	27.4
87.5°	16.6	16.5	16.3	16.7	16.5	16.3	17.0
90°	31.6	32.6	33.4	34.0	34.5	35.0	35.5
92.5°	35.4	37.1	38.0	38.3	38.7	39.0	39.3
95°	42.2	44.0	45.0	45.0	45.0	45.0	45.0
97.5°	44.4	46.6	47.8	48.0	48.2	48.6	48.8
100°	45.4	47.5	48.7	49.0	49.2	49.5	49.7
102.5°	58.4	51.8	48.8	49.3	49.7	50.2	50.7
105°	119.6	73.0	50.0	50.5	51.1	51.6	52.1
107.5°	372.9	338.7	304.1	269.0	233.9	198.8	163.7
110°	508.0	499.4	476.2	438.6	400.9	363.3	325.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	594.3	594.5	590.6	582.6	574.6	566.7	558.7
115°	687.7	690.3	692.1	693.2	694.3	695.3	696.4
117.5°	769.4	771.6	772.8	772.9	773.2	773.4	773.6
120°	823.5	825.6	826.6	826.6	826.6	826.6	826.6
122.5°	875.6	877.1	877.9	878.1	878.3	878.5	878.8
125°	949.0	949.5	950.1	950.6	951.1	951.6	952.2
127.5°	1023.9	1024.7	1024.8	1024.4	1023.8	1023.3	1022.8
130°	1069.1	1070.1	1070.3	1069.8	1069.3	1068.7	1068.3
132.5°	1111.7	1112.7	1112.9	1112.1	1111.4	1110.6	1109.9
135°	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6
137.5°	1234.1	1235.3	1235.6	1235.2	1234.6	1234.1	1233.6
140°	1270.3	1271.4	1271.7	1271.1	1270.7	1270.1	1269.6
142.5°	1304.8	1305.6	1305.7	1305.0	1304.2	1303.5	1302.7
145°	1352.9	1353.4	1353.7	1353.7	1353.7	1353.7	1353.7
147.5°	1396.2	1396.8	1396.4	1395.2	1394.0	1392.7	1391.5
150°	1422.8	1423.2	1423.2	1422.4	1421.6	1420.8	1420.0
152.5°	1446.8	1447.7	1447.6	1446.4	1445.1	1443.9	1442.7
155°	1479.6	1480.9	1480.7	1479.2	1477.6	1476.0	1474.5
157.5°	1508.1	1509.7	1509.4	1507.4	1505.3	1503.2	1501.2
160°	1524.2	1525.7	1525.7	1523.8	1521.9	1520.1	1518.3
162.5°	1539.1	1540.8	1540.9	1539.3	1537.6	1536.0	1534.4
165°	1558.9	1561.1	1561.2	1559.3	1557.5	1555.6	1553.8
167.5°	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8
170°	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3
172.5°	1588.3	1590.4	1590.3	1588.0	1585.7	1583.3	1581.0
175°	1594.8	1596.7	1596.6	1594.4	1592.4	1590.2	1588.2
177.5°	1597.2	1598.9	1598.7	1596.6	1594.5	1592.4	1590.3
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0

(END OF REPORT)