

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: P332447-927

Luminaire Tested: **S123RDIW-S775D1535U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332447-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S775D1535U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6630.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

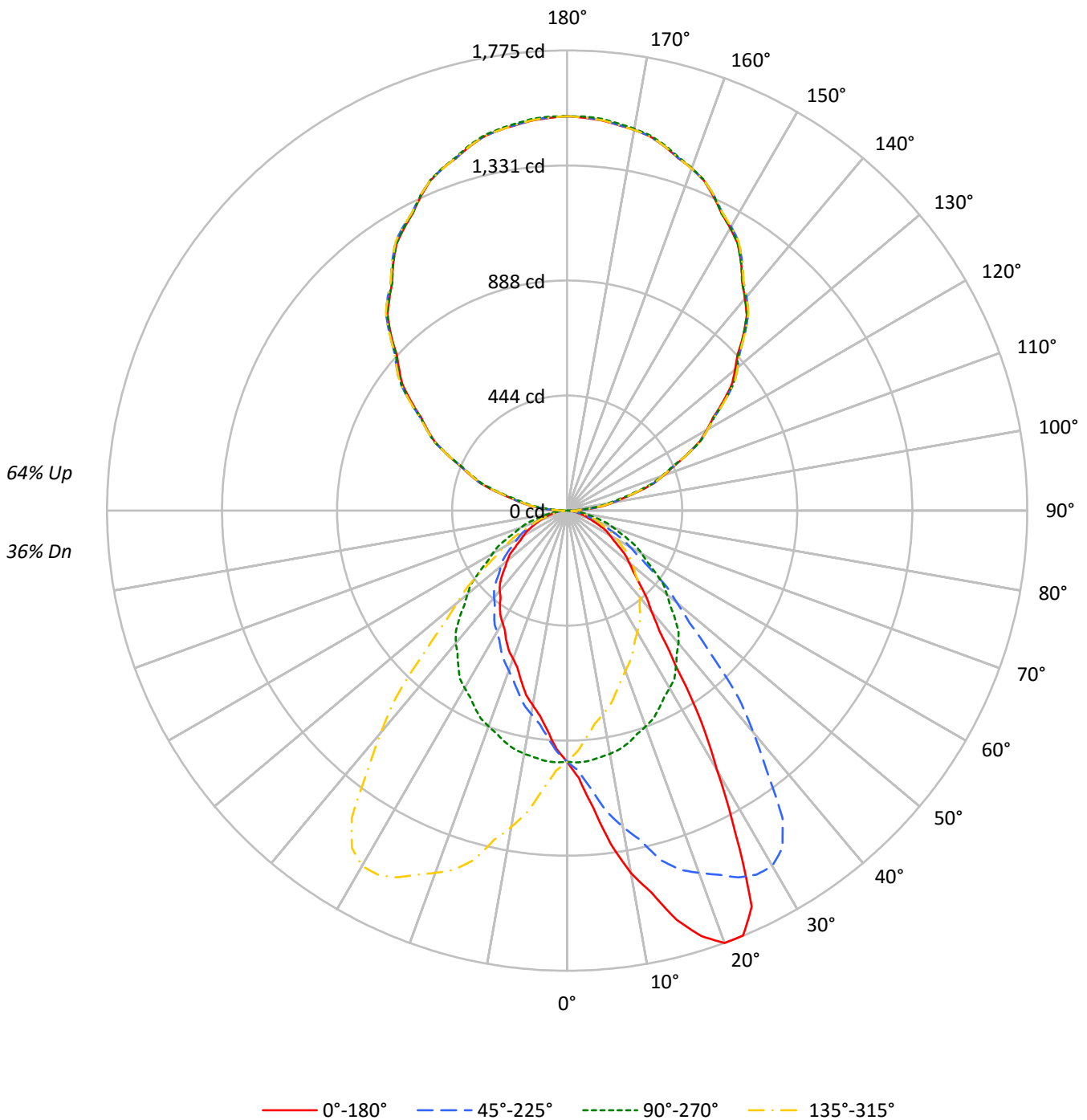
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	76	76		59	59	59		44	44	44	36
1	95	91	87	84	86	83	80	77	67	65	63		53	51	50		39	38	38	32
2	87	80	74	69	79	73	68	64	59	56	53		47	44	42		35	34	32	27
3	80	71	64	58	72	64	58	54	53	48	45		42	39	36		31	30	28	23
4	73	63	55	50	66	57	51	46	47	42	38		37	34	31		28	26	24	20
5	67	56	48	43	61	51	44	39	42	37	33		34	30	27		26	23	22	18
6	62	50	43	37	56	46	39	34	38	33	29		30	27	24		23	21	19	16
7	57	45	38	32	52	42	35	30	34	29	26		28	24	21		21	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23		25	22	19		20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21		23	20	17		18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	18		22	18	16		17	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10428	10428	10428	10428
5°	12431	10472	9223	10472
10°	15522	10413	8332	10413
15°	18219	10307	7598	10307
20°	20333	10148	6975	10148
25°	20009	9980	6590	9980
30°	14382	9825	6196	9825
35°	9603	9625	5941	9625
40°	7075	9382	5675	9382
45°	5934	8958	5416	8958
50°	5238	8403	5056	8403
55°	4592	7767	4560	7767
60°	4090	7160	4179	7160
65°	3591	6507	3889	6507
70°	2820	5926	3550	5926
75°	2483	5178	3244	5178
80°	2163	4395	3186	4395
85°	1741	3532	3384	3532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.4
10°-20°	297.7	4.5
20°-30°	467.6	7.1
30°-40°	487.9	7.4
40°-50°	417.5	6.3
50°-60°	318.2	4.8
60°-70°	204.0	3.1
70°-80°	98.1	1.5
80°-90°	30.5	0.5
90°-100°	99.1	1.5
100°-110°	296.5	4.5
110°-120°	504.3	7.6
120°-130°	663.4	10.0
130°-140°	745.6	11.2
140°-150°	732.9	11.1
150°-160°	617.0	9.3
160°-170°	410.7	6.2
170°-180°	143.8	2.2
0°-30°	860.6	13.0
0°-40°	1348.4	20.3
0°-60°	2084.2	31.4
0°-90°	2416.8	36.5
90°-120°	899.9	13.6
90°-150°	3041.8	45.9
90°-180°	4213.0	63.5
0°-180°	6630.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	969	969	969	969	969	
5°	1150	969	854	969	1150	119
15°	1635	925	682	925	1635	464
25°	1685	840	555	840	1685	724
35°	731	732	452	732	731	479
45°	390	588	356	588	390	307
55°	245	414	243	414	245	221
65°	141	256	153	256	141	139
75°	60	124	78	124	60	64
85°	14	29	27	29	14	17
90°	36	1	36	1	36	18
95°	93	70	93	70	93	96
105°	284	269	284	269	284	302
115°	509	508	509	508	509	504
125°	735	743	735	743	735	657
135°	963	964	963	964	963	740
145°	1170	1170	1170	1170	1170	730
155°	1337	1339	1337	1339	1337	615
165°	1454	1459	1454	1459	1454	410
175°	1511	1517	1511	1517	1511	144
180°	1521	1521	1521	1521	1521	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	1031.9	1033.2	1028.9	1028.3	1023.3	1021.9	1021.9	1014.9	1010.7	1005.0	1001.7
5°	1150.5	1157.1	1153.8	1146.4	1133.9	1131.0	1123.2	1110.7	1096.6	1079.2	1070.9
7.5°	1298.6	1307.7	1304.2	1292.7	1279.7	1269.2	1246.9	1226.2	1197.3	1171.9	1150.2
10°	1420.1	1410.6	1403.1	1391.9	1379.9	1360.3	1337.1	1305.2	1268.3	1239.3	1206.9
12.5°	1511.0	1509.4	1500.0	1488.4	1471.5	1452.9	1424.4	1385.5	1342.6	1300.7	1263.7
15°	1634.9	1637.4	1631.2	1619.1	1595.1	1562.3	1519.2	1503.0	1441.7	1396.1	1350.4
17.5°	1720.7	1720.2	1719.4	1702.7	1678.2	1654.9	1614.9	1572.3	1516.7	1452.5	1391.0
20°	1775.1	1771.0	1771.8	1753.1	1734.9	1707.9	1669.0	1607.2	1561.5	1487.3	1423.8
22.5°	1773.8	1773.0	1776.2	1769.7	1756.4	1735.8	1705.1	1653.0	1594.7	1519.8	1448.3
25°	1684.7	1681.4	1700.9	1706.3	1727.4	1731.2	1722.0	1693.4	1638.2	1561.1	1472.7
27.5°	1410.0	1408.2	1444.3	1489.6	1547.0	1591.7	1634.7	1655.6	1638.2	1583.0	1494.5
30°	1157.1	1196.1	1214.4	1279.9	1352.9	1440.0	1516.3	1588.9	1606.7	1582.7	1510.1
32.5°	960.8	994.7	1010.0	1066.2	1134.2	1236.3	1350.8	1453.5	1526.1	1544.5	1500.8
35°	730.8	731.2	766.0	790.9	854.0	958.9	1070.1	1207.8	1344.6	1448.3	1459.0
37.5°	583.1	585.2	606.3	631.1	678.3	733.9	831.7	946.2	1104.3	1263.5	1356.8
40°	503.5	507.2	523.0	547.5	581.5	623.4	699.7	807.6	939.4	1116.5	1261.2
42.5°	452.4	458.4	466.6	485.4	506.5	545.7	607.4	690.7	810.6	978.1	1145.1
45°	389.8	393.2	399.4	408.1	427.2	454.6	496.1	552.0	651.6	786.4	953.5
47.5°	343.9	342.1	348.7	355.8	368.4	387.1	414.9	460.7	531.6	639.8	781.6
50°	312.8	312.3	316.9	322.3	334.3	348.0	370.8	405.2	461.6	551.2	681.0
52.5°	283.5	285.1	288.4	295.1	303.7	314.8	335.3	360.0	408.5	485.8	594.1
55°	244.7	246.0	250.5	254.2	260.5	271.6	284.6	305.2	338.4	392.4	481.5
57.5°	211.8	211.3	215.6	216.6	223.6	232.7	242.7	258.8	282.9	322.9	382.9
60°	190.0	188.7	192.4	195.4	199.1	206.5	214.8	230.6	249.7	279.1	330.6
62.5°	170.1	169.4	172.2	175.1	178.2	185.0	191.9	204.1	219.1	244.0	284.8
65°	141.0	142.3	143.5	144.7	146.4	150.5	157.2	165.5	175.9	193.3	222.7
67.5°	110.8	112.1	112.5	115.0	118.6	121.2	125.2	132.6	139.8	154.6	171.3
70°	89.6	89.2	89.6	90.9	95.4	100.0	105.4	110.7	115.3	125.6	139.7
72.5°	77.0	76.2	77.3	77.6	79.8	81.0	84.4	89.5	95.4	102.4	112.6
75°	59.7	59.7	59.7	59.7	61.4	62.2	63.5	64.7	66.8	70.1	77.6
77.5°	44.1	44.2	44.8	45.2	45.6	46.0	46.8	48.0	48.8	50.5	53.8
80°	34.9	35.3	34.9	35.3	35.3	36.0	36.5	37.7	38.2	40.2	41.5
82.5°	26.2	26.0	26.2	26.6	26.6	27.5	27.6	28.4	28.5	29.6	30.9
85°	14.1	13.3	14.1	13.7	14.5	13.7	14.1	14.9	14.9	15.4	17.0
87.5°	10.5	11.0	10.3	10.5	10.4	10.5	10.4	10.1	10.6	10.1	9.7
90°	35.8	35.3	34.8	34.2	33.7	33.0	31.8	30.8	29.7	28.7	25.2
92.5°	48.2	48.6	48.9	49.2	49.5	49.3	48.4	47.5	46.7	45.9	43.9
95°	93.2	93.2	93.2	93.2	93.2	92.6	91.6	90.5	89.4	88.4	86.3
97.5°	143.4	143.5	143.5	143.7	143.8	143.2	142.0	140.8	139.6	138.3	136.8
100°	181.6	181.0	180.5	180.0	179.4	178.8	178.0	177.2	176.4	175.6	174.3
102.5°	220.8	220.9	220.9	221.1	221.2	220.9	220.1	219.3	218.5	217.6	215.9
105°	284.3	283.8	283.3	282.7	282.2	281.9	281.9	281.9	281.9	281.9	279.6
107.5°	350.5	350.8	351.1	351.4	351.7	351.5	350.6	349.8	349.0	348.1	347.1
110°	395.4	395.9	396.5	397.0	397.5	397.3	396.2	395.1	394.1	393.0	392.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	443.1	443.3	443.4	443.5	443.6	443.0	441.7	440.5	439.2	437.9	437.8
115°	508.9	509.1	509.5	509.7	509.9	509.9	509.7	509.5	509.1	508.9	509.5
117.5°	575.5	576.3	577.0	577.7	578.5	578.9	579.0	579.0	579.1	579.2	579.8
120°	622.3	622.9	623.4	624.0	624.5	624.9	625.2	625.4	625.7	626.0	627.2
122.5°	667.3	668.0	668.8	669.6	670.3	671.0	671.7	672.3	673.0	673.8	674.5
125°	734.7	735.7	736.8	737.8	738.9	740.0	741.0	742.1	743.1	744.3	744.7
127.5°	801.8	803.0	804.2	805.5	806.7	808.0	809.5	811.0	812.5	814.0	814.6
130°	845.7	847.6	849.5	851.4	853.2	854.7	855.7	856.7	857.9	858.9	859.7
132.5°	891.6	893.0	894.5	896.0	897.4	898.7	900.0	901.3	902.5	903.8	904.4
135°	962.8	963.4	963.8	964.4	965.0	965.7	966.8	967.9	968.9	970.0	970.3
137.5°	1025.6	1026.7	1027.7	1028.6	1029.7	1030.8	1031.9	1033.0	1034.1	1035.2	1034.5
140°	1066.8	1068.6	1070.5	1072.3	1074.2	1075.2	1075.5	1075.8	1076.0	1076.3	1076.0
142.5°	1108.8	1110.2	1111.7	1113.1	1114.5	1115.4	1115.6	1115.9	1116.2	1116.4	1115.9
145°	1169.5	1170.5	1171.6	1172.7	1173.7	1174.4	1174.6	1174.9	1175.2	1175.4	1174.6
147.5°	1223.4	1225.0	1226.7	1228.3	1229.9	1230.7	1230.7	1230.7	1230.7	1230.7	1229.9
150°	1257.9	1259.5	1261.1	1262.7	1264.2	1265.0	1265.0	1265.0	1265.0	1265.0	1264.5
152.5°	1291.3	1292.7	1294.1	1295.5	1296.9	1297.4	1296.9	1296.5	1296.1	1295.6	1295.3
155°	1336.7	1338.6	1340.5	1342.3	1344.2	1344.6	1343.5	1342.4	1341.4	1340.3	1340.1
157.5°	1378.1	1379.5	1381.0	1382.5	1384.0	1384.2	1383.1	1382.0	1380.9	1379.7	1379.5
160°	1404.8	1405.9	1406.9	1408.0	1409.1	1408.9	1407.6	1406.3	1404.9	1403.6	1403.6
162.5°	1424.9	1426.6	1428.3	1430.0	1431.7	1431.9	1430.5	1429.2	1427.9	1426.6	1426.3
165°	1453.8	1455.6	1457.5	1459.4	1461.3	1461.3	1459.8	1458.2	1456.6	1455.0	1455.0
167.5°	1478.4	1480.0	1481.7	1483.4	1484.9	1484.9	1483.4	1481.7	1480.0	1478.4	1478.2
170°	1490.8	1492.7	1494.5	1496.4	1498.3	1498.3	1496.4	1494.5	1492.7	1490.8	1490.8
172.5°	1500.4	1502.2	1504.1	1505.9	1507.8	1507.9	1506.3	1504.6	1503.0	1501.3	1501.3
175°	1511.2	1513.0	1514.8	1516.7	1518.5	1518.7	1517.1	1515.5	1513.9	1512.4	1512.4
177.5°	1516.9	1518.4	1519.8	1521.3	1522.8	1522.9	1521.6	1520.4	1519.1	1517.8	1517.8
180°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	1000.4	999.3	994.7	989.4	982.5	977.8	974.1	972.2	966.2	958.9	953.9
5°	1062.2	1049.7	1036.5	1020.3	1005.4	990.0	980.5	969.2	955.6	940.2	929.5
7.5°	1128.4	1104.0	1077.7	1050.6	1023.7	999.7	978.5	960.3	938.5	916.5	901.1
10°	1179.2	1143.4	1106.5	1068.8	1034.4	1002.0	977.2	952.7	926.5	901.3	882.2
12.5°	1225.3	1178.3	1135.8	1089.4	1045.4	1006.7	970.8	942.1	910.6	883.7	861.9
15°	1283.7	1235.6	1184.1	1113.6	1055.1	1006.2	962.7	924.9	886.8	853.6	832.4
17.5°	1338.2	1265.8	1196.7	1137.9	1061.9	1000.8	947.6	902.5	860.6	825.5	799.4
20°	1360.8	1290.7	1215.6	1140.6	1065.9	997.4	935.6	885.9	842.3	802.6	778.5
22.5°	1374.4	1295.0	1215.9	1135.3	1056.0	984.8	923.8	868.9	821.8	783.9	754.2
25°	1390.2	1295.7	1208.6	1128.9	1048.1	970.9	898.3	840.3	789.3	749.0	717.5
27.5°	1400.7	1289.4	1186.5	1098.0	1016.0	939.1	872.6	811.1	759.3	716.8	682.9
30°	1402.6	1284.4	1169.6	1073.8	990.4	919.9	849.4	790.5	735.8	690.5	659.0
32.5°	1405.3	1272.2	1146.7	1044.9	959.6	889.7	825.9	769.6	713.5	669.0	636.8
35°	1394.4	1265.4	1111.9	995.0	909.5	841.9	784.3	732.5	677.3	634.1	601.3
37.5°	1347.3	1238.4	1075.9	938.7	849.4	786.8	739.8	694.6	644.0	597.5	566.6
40°	1299.8	1211.9	1048.1	904.6	811.3	746.9	704.6	667.7	618.8	575.3	542.1
42.5°	1229.2	1175.8	1021.5	868.7	768.1	706.2	670.5	635.9	592.9	548.7	517.5
45°	1099.5	1106.5	967.2	811.7	708.4	646.2	612.6	588.5	550.4	513.9	482.0
47.5°	936.9	1002.8	903.4	750.8	645.4	587.0	557.7	536.7	511.0	475.2	446.0
50°	830.8	924.9	852.3	710.0	605.9	547.9	518.9	501.8	479.4	451.2	423.4
52.5°	732.8	834.0	790.6	664.6	563.2	510.1	481.7	467.7	449.9	423.3	398.2
55°	597.6	700.1	690.1	596.0	498.9	451.2	429.7	413.9	401.9	382.0	362.1
57.5°	483.5	580.6	585.7	519.7	442.4	395.2	376.7	364.8	357.0	341.9	323.5
60°	411.5	500.6	518.0	468.3	401.9	360.4	342.1	332.6	326.4	314.4	300.3
62.5°	351.7	427.6	447.3	411.5	363.1	324.2	310.0	300.8	296.5	286.1	273.7
65°	269.2	332.2	351.3	331.4	306.1	275.0	263.4	255.5	251.8	246.0	236.8
67.5°	202.4	248.3	269.3	255.2	246.1	226.5	219.0	214.8	211.5	207.6	199.9
70°	162.6	196.6	218.2	214.4	207.0	196.6	191.2	188.3	185.0	181.6	175.0
72.5°	130.7	154.2	174.4	176.3	170.2	168.0	163.3	162.1	160.1	156.1	152.5
75°	86.7	102.8	116.9	122.3	124.8	126.9	124.8	124.5	124.0	120.7	118.6
77.5°	56.8	65.5	74.4	83.6	87.5	90.3	91.0	92.5	91.4	89.7	88.6
80°	43.6	45.6	51.8	59.7	65.9	68.4	70.1	70.9	70.5	70.1	68.4
82.5°	31.6	33.4	36.3	41.8	47.1	51.2	52.2	52.0	52.9	53.2	51.8
85°	17.0	17.4	18.2	19.1	21.9	26.5	27.8	28.6	29.5	29.5	26.9
87.5°	9.7	8.6	8.6	8.0	8.5	8.2	9.7	10.9	11.7	10.9	11.5
90°	21.8	18.3	14.9	11.8	9.2	6.5	3.9	1.2	3.9	6.5	9.2
92.5°	41.9	40.0	38.0	36.1	34.3	32.5	30.7	28.9	30.7	32.5	34.3
95°	84.1	82.0	79.9	78.0	76.0	74.2	72.3	70.5	72.3	74.2	76.0
97.5°	135.2	133.7	132.1	130.7	129.4	127.9	126.6	125.2	126.6	127.9	129.4
100°	172.9	171.6	170.3	168.8	167.2	165.6	164.1	162.5	164.1	165.6	167.2
102.5°	214.1	212.4	210.6	209.3	208.3	207.4	206.4	205.5	206.4	207.4	208.3
105°	277.1	274.7	272.4	270.9	270.4	269.8	269.3	268.8	269.3	269.8	270.4
107.5°	346.2	345.2	344.3	343.6	343.3	343.0	342.7	342.4	342.7	343.0	343.3
110°	392.0	391.4	390.9	390.4	389.8	389.3	388.8	388.2	388.8	389.3	389.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	437.7	437.6	437.5	437.3	437.0	436.7	436.3	436.0	436.3	436.7	437.0
115°	509.9	510.5	511.0	510.9	510.1	509.3	508.5	507.7	508.5	509.3	510.1
117.5°	580.5	581.2	581.9	581.9	581.5	580.9	580.4	579.9	580.4	580.9	581.5
120°	628.6	629.9	631.3	631.1	629.5	628.0	626.4	624.8	626.4	628.0	629.5
122.5°	675.1	675.8	676.5	676.3	675.1	673.9	672.7	671.6	672.7	673.9	675.1
125°	745.3	745.8	746.3	746.2	745.4	744.7	743.8	743.0	743.8	744.7	745.4
127.5°	815.2	815.7	816.3	815.8	814.0	812.4	810.6	809.0	810.6	812.4	814.0
130°	860.5	861.3	862.1	861.4	859.3	857.1	855.1	852.9	855.1	857.1	859.3
132.5°	905.0	905.5	906.2	905.4	903.2	901.1	899.0	896.9	899.0	901.1	903.2
135°	970.5	970.8	971.1	970.4	968.8	967.2	965.6	964.0	965.6	967.2	968.8
137.5°	1033.8	1033.2	1032.5	1031.4	1030.2	1028.8	1027.5	1026.1	1027.5	1028.8	1030.2
140°	1075.8	1075.5	1075.2	1074.4	1073.1	1071.8	1070.5	1069.1	1070.5	1071.8	1073.1
142.5°	1115.5	1115.0	1114.5	1113.6	1112.3	1111.0	1109.6	1108.3	1109.6	1111.0	1112.3
145°	1173.9	1173.1	1172.3	1171.6	1171.1	1170.5	1170.1	1169.5	1170.1	1170.5	1171.1
147.5°	1229.2	1228.4	1227.6	1226.9	1225.9	1224.9	1223.9	1223.0	1223.9	1224.9	1225.9
150°	1264.0	1263.5	1262.9	1262.4	1261.9	1261.3	1260.8	1260.3	1260.8	1261.3	1261.9
152.5°	1295.0	1294.7	1294.3	1293.8	1293.1	1292.4	1291.6	1290.9	1291.6	1292.4	1293.1
155°	1339.7	1339.5	1339.3	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1
157.5°	1379.3	1379.1	1378.9	1379.0	1379.3	1379.6	1379.9	1380.2	1379.9	1379.6	1379.3
160°	1403.6	1403.6	1403.6	1403.9	1404.4	1404.9	1405.5	1406.0	1405.5	1404.9	1404.4
162.5°	1426.2	1425.9	1425.7	1426.0	1426.7	1427.4	1428.2	1428.9	1428.2	1427.4	1426.7
165°	1455.0	1455.0	1455.0	1455.4	1456.2	1457.0	1457.8	1458.6	1457.8	1457.0	1456.2
167.5°	1478.0	1477.7	1477.6	1478.0	1479.0	1480.1	1481.1	1482.3	1481.1	1480.1	1479.0
170°	1490.8	1490.8	1490.8	1491.4	1492.4	1493.5	1494.5	1495.6	1494.5	1493.5	1492.4
172.5°	1501.3	1501.3	1501.3	1501.9	1502.9	1504.0	1505.1	1506.1	1505.1	1504.0	1502.9
175°	1512.4	1512.4	1512.4	1512.8	1513.9	1515.0	1516.1	1517.1	1516.1	1515.0	1513.9
177.5°	1517.8	1517.8	1517.8	1518.2	1519.1	1520.0	1520.8	1521.6	1520.8	1520.0	1519.1
180°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	952.3	947.9	945.0	938.3	934.0	929.4	924.7	927.7	927.4	927.0	927.0
5°	920.4	910.8	902.1	890.9	883.8	875.1	868.5	867.7	869.3	863.5	860.2
7.5°	888.7	875.6	863.2	850.9	837.8	827.4	820.8	817.7	813.5	809.9	806.2
10°	866.4	851.0	839.0	823.7	809.6	797.2	789.3	783.9	780.9	778.1	772.7
12.5°	843.5	828.5	813.2	795.8	782.4	767.9	762.1	756.0	750.4	747.2	739.8
15°	810.0	790.5	774.4	756.1	741.2	727.1	718.7	706.7	705.0	700.9	693.5
17.5°	776.4	755.3	732.9	719.5	702.6	687.9	675.3	671.2	659.3	654.9	648.4
20°	749.9	730.4	713.4	695.5	671.1	657.4	647.5	642.1	632.5	626.7	622.5
22.5°	727.0	707.2	687.5	666.7	646.5	631.1	623.8	615.4	610.3	602.1	597.6
25°	694.3	672.7	649.1	626.7	612.2	600.6	588.9	581.5	574.0	570.3	562.0
27.5°	656.3	633.7	611.6	594.7	576.9	565.4	554.8	548.2	539.2	533.0	528.4
30°	635.4	608.9	589.8	574.4	551.6	540.8	533.0	524.7	518.0	511.4	506.8
32.5°	611.2	586.9	568.9	549.9	532.3	520.6	510.4	503.1	497.4	491.2	486.6
35°	573.1	552.9	534.2	515.1	502.2	490.2	478.2	472.0	466.6	460.8	456.6
37.5°	538.8	519.8	502.1	484.0	468.1	458.3	448.6	443.9	436.6	432.7	428.4
40°	517.6	498.9	479.8	462.5	445.8	438.4	429.7	422.6	416.0	413.1	408.5
42.5°	494.4	475.7	459.6	440.8	427.3	417.2	409.1	401.4	396.4	392.2	389.6
45°	459.9	443.4	427.6	408.9	396.1	387.4	378.3	371.2	366.6	363.8	359.2
47.5°	426.5	410.0	394.0	377.6	365.2	355.3	346.2	341.3	335.2	331.6	328.6
50°	402.3	387.4	370.3	355.5	343.0	333.0	325.6	319.3	313.9	309.4	307.4
52.5°	380.1	364.2	349.4	335.6	322.4	311.2	304.4	297.8	293.7	288.5	286.1
55°	343.4	328.0	315.6	301.9	289.1	279.6	271.2	265.5	261.3	255.5	252.2
57.5°	309.0	295.2	280.4	268.5	255.2	247.2	240.3	232.4	227.4	222.8	219.6
60°	285.7	270.0	257.1	246.0	234.3	223.9	217.8	211.5	206.1	201.5	198.7
62.5°	261.6	247.8	235.6	223.4	212.8	203.7	196.5	191.3	186.6	183.6	180.8
65°	224.3	213.6	201.1	191.2	181.3	174.6	168.8	164.2	160.9	158.8	156.4
67.5°	190.2	179.7	168.9	159.1	152.5	147.4	143.6	139.7	138.0	135.4	133.7
70°	167.9	157.2	147.7	140.2	133.6	129.8	127.3	124.5	122.8	119.5	117.8
72.5°	143.8	135.9	129.0	122.9	117.6	114.2	111.1	107.5	104.9	101.2	99.6
75°	113.2	106.2	100.8	96.6	93.3	88.7	84.2	80.5	79.2	78.0	77.6
77.5°	83.9	79.4	75.5	72.0	67.9	64.6	63.5	62.7	62.4	61.8	61.8
80°	65.9	61.8	58.9	54.7	52.3	52.3	52.3	51.4	51.8	51.8	51.8
82.5°	49.0	45.2	43.6	42.1	41.7	42.0	42.0	42.1	41.9	42.5	42.2
85°	25.3	25.7	26.5	26.1	26.5	26.5	27.4	26.9	27.4	26.5	27.4
87.5°	11.6	13.2	14.3	15.3	16.3	16.7	17.2	17.4	18.0	18.2	18.4
90°	11.8	14.9	18.3	21.8	25.2	28.7	29.7	30.8	31.8	33.0	33.7
92.5°	36.1	38.0	40.0	41.9	43.9	45.9	46.7	47.5	48.4	49.3	49.5
95°	78.0	79.9	82.0	84.1	86.3	88.4	89.4	90.5	91.6	92.6	93.2
97.5°	130.7	132.1	133.7	135.2	136.8	138.3	139.6	140.8	142.0	143.2	143.8
100°	168.8	170.3	171.6	172.9	174.3	175.6	176.4	177.2	178.0	178.8	179.4
102.5°	209.3	210.6	212.4	214.1	215.9	217.6	218.5	219.3	220.1	220.9	221.2
105°	270.9	272.4	274.7	277.1	279.6	281.9	281.9	281.9	281.9	281.9	282.2
107.5°	343.6	344.3	345.2	346.2	347.1	348.1	349.0	349.8	350.6	351.5	351.7
110°	390.4	390.9	391.4	392.0	392.4	393.0	394.1	395.1	396.2	397.3	397.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	437.3	437.5	437.6	437.7	437.8	437.9	439.2	440.5	441.7	443.0	443.6
115°	510.9	511.0	510.5	509.9	509.5	508.9	509.1	509.5	509.7	509.9	509.9
117.5°	581.9	581.9	581.2	580.5	579.8	579.2	579.1	579.0	579.0	578.9	578.5
120°	631.1	631.3	629.9	628.6	627.2	626.0	625.7	625.4	625.2	624.9	624.5
122.5°	676.3	676.5	675.8	675.1	674.5	673.8	673.0	672.3	671.7	671.0	670.3
125°	746.2	746.3	745.8	745.3	744.7	744.3	743.1	742.1	741.0	740.0	738.9
127.5°	815.8	816.3	815.7	815.2	814.6	814.0	812.5	811.0	809.5	808.0	806.7
130°	861.4	862.1	861.3	860.5	859.7	858.9	857.9	856.7	855.7	854.7	853.2
132.5°	905.4	906.2	905.5	905.0	904.4	903.8	902.5	901.3	900.0	898.7	897.4
135°	970.4	971.1	970.8	970.5	970.3	970.0	968.9	967.9	966.8	965.7	965.0
137.5°	1031.4	1032.5	1033.2	1033.8	1034.5	1035.2	1034.1	1033.0	1031.9	1030.8	1029.7
140°	1074.4	1075.2	1075.5	1075.8	1076.0	1076.3	1076.0	1075.8	1075.5	1075.2	1074.2
142.5°	1113.6	1114.5	1115.0	1115.5	1115.9	1116.4	1116.2	1115.9	1115.6	1115.4	1114.5
145°	1171.6	1172.3	1173.1	1173.9	1174.6	1175.4	1175.2	1174.9	1174.6	1174.4	1173.7
147.5°	1226.9	1227.6	1228.4	1229.2	1229.9	1230.7	1230.7	1230.7	1230.7	1230.7	1229.9
150°	1262.4	1262.9	1263.5	1264.0	1264.5	1265.0	1265.0	1265.0	1265.0	1265.0	1264.2
152.5°	1293.8	1294.3	1294.7	1295.0	1295.3	1295.6	1296.1	1296.5	1296.9	1297.4	1296.9
155°	1339.1	1339.3	1339.5	1339.7	1340.1	1340.3	1341.4	1342.4	1343.5	1344.6	1344.2
157.5°	1379.0	1378.9	1379.1	1379.3	1379.5	1379.7	1380.9	1382.0	1383.1	1384.2	1384.0
160°	1403.9	1403.6	1403.6	1403.6	1403.6	1403.6	1404.9	1406.3	1407.6	1408.9	1409.1
162.5°	1426.0	1425.7	1425.9	1426.2	1426.3	1426.6	1427.9	1429.2	1430.5	1431.9	1431.7
165°	1455.4	1455.0	1455.0	1455.0	1455.0	1455.0	1456.6	1458.2	1459.8	1461.3	1461.3
167.5°	1478.0	1477.6	1477.7	1478.0	1478.2	1478.4	1480.0	1481.7	1483.4	1484.9	1484.9
170°	1491.4	1490.8	1490.8	1490.8	1490.8	1490.8	1492.7	1494.5	1496.4	1498.3	1498.3
172.5°	1501.9	1501.3	1501.3	1501.3	1501.3	1501.3	1503.0	1504.6	1506.3	1507.9	1507.8
175°	1512.8	1512.4	1512.4	1512.4	1512.4	1512.4	1513.9	1515.5	1517.1	1518.7	1518.5
177.5°	1518.2	1517.8	1517.8	1517.8	1517.8	1517.8	1519.1	1520.4	1521.6	1522.9	1522.8
180°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	923.1	922.7	923.1	921.7	923.1	922.7	923.1	927.0	927.0	927.4	927.7
5°	859.0	858.5	857.3	853.6	857.3	858.5	859.0	860.2	863.5	869.3	867.7
7.5°	803.0	802.4	798.8	798.8	798.8	802.4	803.0	806.2	809.9	813.5	817.7
10°	769.8	770.2	765.2	762.3	765.2	770.2	769.8	772.7	778.1	780.9	783.9
12.5°	737.6	735.7	731.7	728.5	731.7	735.7	737.6	739.8	747.2	750.4	756.0
15°	695.1	690.9	681.0	681.8	681.0	690.9	695.1	693.5	700.9	705.0	706.7
17.5°	645.1	642.1	641.8	636.0	641.8	642.1	645.1	648.4	654.9	659.3	671.2
20°	615.9	613.9	614.7	608.9	614.7	613.9	615.9	622.5	626.7	632.5	642.1
22.5°	593.0	591.0	587.5	585.7	587.5	591.0	593.0	597.6	602.1	610.3	615.4
25°	559.5	556.2	552.9	554.9	552.9	556.2	559.5	562.0	570.3	574.0	581.5
27.5°	526.0	523.5	520.1	519.8	520.1	523.5	526.0	528.4	533.0	539.2	548.2
30°	504.8	502.2	500.6	498.5	500.6	502.2	504.8	506.8	511.4	518.0	524.7
32.5°	483.2	482.7	479.7	479.3	479.7	482.7	483.2	486.6	491.2	497.4	503.1
35°	455.0	452.5	451.6	452.1	451.6	452.5	455.0	456.6	460.8	466.6	472.0
37.5°	428.2	424.8	423.3	421.9	423.3	424.8	428.2	428.4	432.7	436.6	443.9
40°	408.9	405.6	404.8	403.9	404.8	405.6	408.9	408.5	413.1	416.0	422.6
42.5°	387.4	386.0	385.6	384.0	385.6	386.0	387.4	389.6	392.2	396.4	401.4
45°	357.9	357.5	355.1	355.8	355.1	357.5	357.9	359.2	363.8	366.6	371.2
47.5°	326.9	325.1	323.4	324.5	323.4	325.1	326.9	328.6	331.6	335.2	341.3
50°	305.7	304.8	301.1	301.9	301.1	304.8	305.7	307.4	309.4	313.9	319.3
52.5°	284.5	281.3	279.9	279.4	279.9	281.3	284.5	286.1	288.5	293.7	297.8
55°	249.3	245.5	243.8	243.0	243.8	245.5	249.3	252.2	255.5	261.3	265.5
57.5°	214.8	213.7	212.5	213.3	212.5	213.7	214.8	219.6	222.8	227.4	232.4
60°	194.5	194.5	194.5	194.1	194.5	194.5	194.5	198.7	201.5	206.1	211.5
62.5°	179.0	177.9	177.6	178.2	177.6	177.9	179.0	180.8	183.6	186.6	191.3
65°	155.1	154.7	153.0	152.7	153.0	154.7	155.1	156.4	158.8	160.9	164.2
67.5°	132.6	131.1	130.6	130.1	130.6	131.1	132.6	133.7	135.4	138.0	139.7
70°	115.7	114.9	112.4	112.8	112.4	114.9	115.7	117.8	119.5	122.8	124.5
72.5°	97.4	96.6	96.2	95.5	96.2	96.6	97.4	99.6	101.2	104.9	107.5
75°	77.2	76.8	76.3	78.0	76.3	76.8	77.2	77.6	78.0	79.2	80.5
77.5°	61.8	61.8	62.0	61.4	62.0	61.8	61.8	61.8	61.8	62.4	62.7
80°	51.8	51.8	51.4	51.4	51.4	51.8	51.8	51.8	51.8	51.8	51.4
82.5°	41.6	41.9	42.1	41.5	42.1	41.9	41.6	42.2	42.5	41.9	42.1
85°	27.4	26.9	27.8	27.4	27.8	26.9	27.4	27.4	26.5	27.4	26.9
87.5°	19.1	18.5	18.7	19.1	18.7	18.5	19.1	18.4	18.2	18.0	17.4
90°	34.2	34.8	35.3	35.8	35.3	34.8	34.2	33.7	33.0	31.8	30.8
92.5°	49.2	48.9	48.6	48.2	48.6	48.9	49.2	49.5	49.3	48.4	47.5
95°	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	92.6	91.6	90.5
97.5°	143.7	143.5	143.5	143.4	143.5	143.5	143.7	143.8	143.2	142.0	140.8
100°	180.0	180.5	181.0	181.6	181.0	180.5	180.0	179.4	178.8	178.0	177.2
102.5°	221.1	220.9	220.9	220.8	220.9	220.9	221.1	221.2	220.9	220.1	219.3
105°	282.7	283.3	283.8	284.3	283.8	283.3	282.7	282.2	281.9	281.9	281.9
107.5°	351.4	351.1	350.8	350.5	350.8	351.1	351.4	351.7	351.5	350.6	349.8
110°	397.0	396.5	395.9	395.4	395.9	396.5	397.0	397.5	397.3	396.2	395.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	443.5	443.4	443.3	443.1	443.3	443.4	443.5	443.6	443.0	441.7	440.5
115°	509.7	509.5	509.1	508.9	509.1	509.5	509.7	509.9	509.9	509.7	509.5
117.5°	577.7	577.0	576.3	575.5	576.3	577.0	577.7	578.5	578.9	579.0	579.0
120°	624.0	623.4	622.9	622.3	622.9	623.4	624.0	624.5	624.9	625.2	625.4
122.5°	669.6	668.8	668.0	667.3	668.0	668.8	669.6	670.3	671.0	671.7	672.3
125°	737.8	736.8	735.7	734.7	735.7	736.8	737.8	738.9	740.0	741.0	742.1
127.5°	805.5	804.2	803.0	801.8	803.0	804.2	805.5	806.7	808.0	809.5	811.0
130°	851.4	849.5	847.6	845.7	847.6	849.5	851.4	853.2	854.7	855.7	856.7
132.5°	896.0	894.5	893.0	891.6	893.0	894.5	896.0	897.4	898.7	900.0	901.3
135°	964.4	963.8	963.4	962.8	963.4	963.8	964.4	965.0	965.7	966.8	967.9
137.5°	1028.6	1027.7	1026.7	1025.6	1026.7	1027.7	1028.6	1029.7	1030.8	1031.9	1033.0
140°	1072.3	1070.5	1068.6	1066.8	1068.6	1070.5	1072.3	1074.2	1075.2	1075.5	1075.8
142.5°	1113.1	1111.7	1110.2	1108.8	1110.2	1111.7	1113.1	1114.5	1115.4	1115.6	1115.9
145°	1172.7	1171.6	1170.5	1169.5	1170.5	1171.6	1172.7	1173.7	1174.4	1174.6	1174.9
147.5°	1228.3	1226.7	1225.0	1223.4	1225.0	1226.7	1228.3	1229.9	1230.7	1230.7	1230.7
150°	1262.7	1261.1	1259.5	1257.9	1259.5	1261.1	1262.7	1264.2	1265.0	1265.0	1265.0
152.5°	1295.5	1294.1	1292.7	1291.3	1292.7	1294.1	1295.5	1296.9	1297.4	1296.9	1296.5
155°	1342.3	1340.5	1338.6	1336.7	1338.6	1340.5	1342.3	1344.2	1344.6	1343.5	1342.4
157.5°	1382.5	1381.0	1379.5	1378.1	1379.5	1381.0	1382.5	1384.0	1384.2	1383.1	1382.0
160°	1408.0	1406.9	1405.9	1404.8	1405.9	1406.9	1408.0	1409.1	1408.9	1407.6	1406.3
162.5°	1430.0	1428.3	1426.6	1424.9	1426.6	1428.3	1430.0	1431.7	1431.9	1430.5	1429.2
165°	1459.4	1457.5	1455.6	1453.8	1455.6	1457.5	1459.4	1461.3	1461.3	1459.8	1458.2
167.5°	1483.4	1481.7	1480.0	1478.4	1480.0	1481.7	1483.4	1484.9	1484.9	1483.4	1481.7
170°	1496.4	1494.5	1492.7	1490.8	1492.7	1494.5	1496.4	1498.3	1498.3	1496.4	1494.5
172.5°	1505.9	1504.1	1502.2	1500.4	1502.2	1504.1	1505.9	1507.8	1507.9	1506.3	1504.6
175°	1516.7	1514.8	1513.0	1511.2	1513.0	1514.8	1516.7	1518.5	1518.7	1517.1	1515.5
177.5°	1521.3	1519.8	1518.4	1516.9	1518.4	1519.8	1521.3	1522.8	1522.9	1521.6	1520.4
180°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	924.7	929.4	934.0	938.3	945.0	947.9	952.3	953.9	958.9	966.2	972.2
5°	868.5	875.1	883.8	890.9	902.1	910.8	920.4	929.5	940.2	955.6	969.2
7.5°	820.8	827.4	837.8	850.9	863.2	875.6	888.7	901.1	916.5	938.5	960.3
10°	789.3	797.2	809.6	823.7	839.0	851.0	866.4	882.2	901.3	926.5	952.7
12.5°	762.1	767.9	782.4	795.8	813.2	828.5	843.5	861.9	883.7	910.6	942.1
15°	718.7	727.1	741.2	756.1	774.4	790.5	810.0	832.4	853.6	886.8	924.9
17.5°	675.3	687.9	702.6	719.5	732.9	755.3	776.4	799.4	825.5	860.6	902.5
20°	647.5	657.4	671.1	695.5	713.4	730.4	749.9	778.5	802.6	842.3	885.9
22.5°	623.8	631.1	646.5	666.7	687.5	707.2	727.0	754.2	783.9	821.8	868.9
25°	588.9	600.6	612.2	626.7	649.1	672.7	694.3	717.5	749.0	789.3	840.3
27.5°	554.8	565.4	576.9	594.7	611.6	633.7	656.3	682.9	716.8	759.3	811.1
30°	533.0	540.8	551.6	574.4	589.8	608.9	635.4	659.0	690.5	735.8	790.5
32.5°	510.4	520.6	532.3	549.9	568.9	586.9	611.2	636.8	669.0	713.5	769.6
35°	478.2	490.2	502.2	515.1	534.2	552.9	573.1	601.3	634.1	677.3	732.5
37.5°	448.6	458.3	468.1	484.0	502.1	519.8	538.8	566.6	597.5	644.0	694.6
40°	429.7	438.4	445.8	462.5	479.8	498.9	517.6	542.1	575.3	618.8	667.7
42.5°	409.1	417.2	427.3	440.8	459.6	475.7	494.4	517.5	548.7	592.9	635.9
45°	378.3	387.4	396.1	408.9	427.6	443.4	459.9	482.0	513.9	550.4	588.5
47.5°	346.2	355.3	365.2	377.6	394.0	410.0	426.5	446.0	475.2	511.0	536.7
50°	325.6	333.0	343.0	355.5	370.3	387.4	402.3	423.4	451.2	479.4	501.8
52.5°	304.4	311.2	322.4	335.6	349.4	364.2	380.1	398.2	423.3	449.9	467.7
55°	271.2	279.6	289.1	301.9	315.6	328.0	343.4	362.1	382.0	401.9	413.9
57.5°	240.3	247.2	255.2	268.5	280.4	295.2	309.0	323.5	341.9	357.0	364.8
60°	217.8	223.9	234.3	246.0	257.1	270.0	285.7	300.3	314.4	326.4	332.6
62.5°	196.5	203.7	212.8	223.4	235.6	247.8	261.6	273.7	286.1	296.5	300.8
65°	168.8	174.6	181.3	191.2	201.1	213.6	224.3	236.8	246.0	251.8	255.5
67.5°	143.6	147.4	152.5	159.1	168.9	179.7	190.2	199.9	207.6	211.5	214.8
70°	127.3	129.8	133.6	140.2	147.7	157.2	167.9	175.0	181.6	185.0	188.3
72.5°	111.1	114.2	117.6	122.9	129.0	135.9	143.8	152.5	156.1	160.1	162.1
75°	84.2	88.7	93.3	96.6	100.8	106.2	113.2	118.6	120.7	124.0	124.5
77.5°	63.5	64.6	67.9	72.0	75.5	79.4	83.9	88.6	89.7	91.4	92.5
80°	52.3	52.3	52.3	54.7	58.9	61.8	65.9	68.4	70.1	70.5	70.9
82.5°	42.0	42.0	41.7	42.1	43.6	45.2	49.0	51.8	53.2	52.9	52.0
85°	27.4	26.5	26.5	26.1	26.5	25.7	25.3	26.9	29.5	29.5	28.6
87.5°	17.2	16.7	16.3	15.3	14.3	13.2	11.6	11.5	10.9	11.7	10.9
90°	29.7	28.7	25.2	21.8	18.3	14.9	11.8	9.2	6.5	3.9	1.2
92.5°	46.7	45.9	43.9	41.9	40.0	38.0	36.1	34.3	32.5	30.7	28.9
95°	89.4	88.4	86.3	84.1	82.0	79.9	78.0	76.0	74.2	72.3	70.5
97.5°	139.6	138.3	136.8	135.2	133.7	132.1	130.7	129.4	127.9	126.6	125.2
100°	176.4	175.6	174.3	172.9	171.6	170.3	168.8	167.2	165.6	164.1	162.5
102.5°	218.5	217.6	215.9	214.1	212.4	210.6	209.3	208.3	207.4	206.4	205.5
105°	281.9	281.9	279.6	277.1	274.7	272.4	270.9	270.4	269.8	269.3	268.8
107.5°	349.0	348.1	347.1	346.2	345.2	344.3	343.6	343.3	343.0	342.7	342.4
110°	394.1	393.0	392.4	392.0	391.4	390.9	390.4	389.8	389.3	388.8	388.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	439.2	437.9	437.8	437.7	437.6	437.5	437.3	437.0	436.7	436.3	436.0
115°	509.1	508.9	509.5	509.9	510.5	511.0	510.9	510.1	509.3	508.5	507.7
117.5°	579.1	579.2	579.8	580.5	581.2	581.9	581.9	581.5	580.9	580.4	579.9
120°	625.7	626.0	627.2	628.6	629.9	631.3	631.1	629.5	628.0	626.4	624.8
122.5°	673.0	673.8	674.5	675.1	675.8	676.5	676.3	675.1	673.9	672.7	671.6
125°	743.1	744.3	744.7	745.3	745.8	746.3	746.2	745.4	744.7	743.8	743.0
127.5°	812.5	814.0	814.6	815.2	815.7	816.3	815.8	814.0	812.4	810.6	809.0
130°	857.9	858.9	859.7	860.5	861.3	862.1	861.4	859.3	857.1	855.1	852.9
132.5°	902.5	903.8	904.4	905.0	905.5	906.2	905.4	903.2	901.1	899.0	896.9
135°	968.9	970.0	970.3	970.5	970.8	971.1	970.4	968.8	967.2	965.6	964.0
137.5°	1034.1	1035.2	1034.5	1033.8	1033.2	1032.5	1031.4	1030.2	1028.8	1027.5	1026.1
140°	1076.0	1076.3	1076.0	1075.8	1075.5	1075.2	1074.4	1073.1	1071.8	1070.5	1069.1
142.5°	1116.2	1116.4	1115.9	1115.5	1115.0	1114.5	1113.6	1112.3	1111.0	1109.6	1108.3
145°	1175.2	1175.4	1174.6	1173.9	1173.1	1172.3	1171.6	1171.1	1170.5	1170.1	1169.5
147.5°	1230.7	1230.7	1229.9	1229.2	1228.4	1227.6	1226.9	1225.9	1224.9	1223.9	1223.0
150°	1265.0	1265.0	1264.5	1264.0	1263.5	1262.9	1262.4	1261.9	1261.3	1260.8	1260.3
152.5°	1296.1	1295.6	1295.3	1295.0	1294.7	1294.3	1293.8	1293.1	1292.4	1291.6	1290.9
155°	1341.4	1340.3	1340.1	1339.7	1339.5	1339.3	1339.1	1339.1	1339.1	1339.1	1339.1
157.5°	1380.9	1379.7	1379.5	1379.3	1379.1	1378.9	1379.0	1379.3	1379.6	1379.9	1380.2
160°	1404.9	1403.6	1403.6	1403.6	1403.6	1403.6	1403.9	1404.4	1404.9	1405.5	1406.0
162.5°	1427.9	1426.6	1426.3	1426.2	1425.9	1425.7	1426.0	1426.7	1427.4	1428.2	1428.9
165°	1456.6	1455.0	1455.0	1455.0	1455.0	1455.0	1455.4	1456.2	1457.0	1457.8	1458.6
167.5°	1480.0	1478.4	1478.2	1478.0	1477.7	1477.6	1478.0	1479.0	1480.1	1481.1	1482.3
170°	1492.7	1490.8	1490.8	1490.8	1490.8	1490.8	1491.4	1492.4	1493.5	1494.5	1495.6
172.5°	1503.0	1501.3	1501.3	1501.3	1501.3	1501.3	1501.9	1502.9	1504.0	1505.1	1506.1
175°	1513.9	1512.4	1512.4	1512.4	1512.4	1512.4	1512.8	1513.9	1515.0	1516.1	1517.1
177.5°	1519.1	1517.8	1517.8	1517.8	1517.8	1517.8	1518.2	1519.1	1520.0	1520.8	1521.6
180°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	974.1	977.8	982.5	989.4	994.7	999.3	1000.4	1001.7	1005.0	1010.7	1014.9
5°	980.5	990.0	1005.4	1020.3	1036.5	1049.7	1062.2	1070.9	1079.2	1096.6	1110.7
7.5°	978.5	999.7	1023.7	1050.6	1077.7	1104.0	1128.4	1150.2	1171.9	1197.3	1226.2
10°	977.2	1002.0	1034.4	1068.8	1106.5	1143.4	1179.2	1206.9	1239.3	1268.3	1305.2
12.5°	970.8	1006.7	1045.4	1089.4	1135.8	1178.3	1225.3	1263.7	1300.7	1342.6	1385.5
15°	962.7	1006.2	1055.1	1113.6	1184.1	1235.6	1283.7	1350.4	1396.1	1441.7	1503.0
17.5°	947.6	1000.8	1061.9	1137.9	1196.7	1265.8	1338.2	1391.0	1452.5	1516.7	1572.3
20°	935.6	997.4	1065.9	1140.6	1215.6	1290.7	1360.8	1423.8	1487.3	1561.5	1607.2
22.5°	923.8	984.8	1056.0	1135.3	1215.9	1295.0	1374.4	1448.3	1519.8	1594.7	1653.0
25°	898.3	970.9	1048.1	1128.9	1208.6	1295.7	1390.2	1472.7	1561.1	1638.2	1693.4
27.5°	872.6	939.1	1016.0	1098.0	1186.5	1289.4	1400.7	1494.5	1583.0	1638.2	1655.6
30°	849.4	919.9	990.4	1073.8	1169.6	1284.4	1402.6	1510.1	1582.7	1606.7	1588.9
32.5°	825.9	889.7	959.6	1044.9	1146.7	1272.2	1405.3	1500.8	1544.5	1526.1	1453.5
35°	784.3	841.9	909.5	995.0	1111.9	1265.4	1394.4	1459.0	1448.3	1344.6	1207.8
37.5°	739.8	786.8	849.4	938.7	1075.9	1238.4	1347.3	1356.8	1263.5	1104.3	946.2
40°	704.6	746.9	811.3	904.6	1048.1	1211.9	1299.8	1261.2	1116.5	939.4	807.6
42.5°	670.5	706.2	768.1	868.7	1021.5	1175.8	1229.2	1145.1	978.1	810.6	690.7
45°	612.6	646.2	708.4	811.7	967.2	1106.5	1099.5	953.5	786.4	651.6	552.0
47.5°	557.7	587.0	645.4	750.8	903.4	1002.8	936.9	781.6	639.8	531.6	460.7
50°	518.9	547.9	605.9	710.0	852.3	924.9	830.8	681.0	551.2	461.6	405.2
52.5°	481.7	510.1	563.2	664.6	790.6	834.0	732.8	594.1	485.8	408.5	360.0
55°	429.7	451.2	498.9	596.0	690.1	700.1	597.6	481.5	392.4	338.4	305.2
57.5°	376.7	395.2	442.4	519.7	585.7	580.6	483.5	382.9	322.9	282.9	258.8
60°	342.1	360.4	401.9	468.3	518.0	500.6	411.5	330.6	279.1	249.7	230.6
62.5°	310.0	324.2	363.1	411.5	447.3	427.6	351.7	284.8	244.0	219.1	204.1
65°	263.4	275.0	306.1	331.4	351.3	332.2	269.2	222.7	193.3	175.9	165.5
67.5°	219.0	226.5	246.1	255.2	269.3	248.3	202.4	171.3	154.6	139.8	132.6
70°	191.2	196.6	207.0	214.4	218.2	196.6	162.6	139.7	125.6	115.3	110.7
72.5°	163.3	168.0	170.2	176.3	174.4	154.2	130.7	112.6	102.4	95.4	89.5
75°	124.8	126.9	124.8	122.3	116.9	102.8	86.7	77.6	70.1	66.8	64.7
77.5°	91.0	90.3	87.5	83.6	74.4	65.5	56.8	53.8	50.5	48.8	48.0
80°	70.1	68.4	65.9	59.7	51.8	45.6	43.6	41.5	40.2	38.2	37.7
82.5°	52.2	51.2	47.1	41.8	36.3	33.4	31.6	30.9	29.6	28.5	28.4
85°	27.8	26.5	21.9	19.1	18.2	17.4	17.0	17.0	15.4	14.9	14.9
87.5°	9.7	8.2	8.5	8.0	8.6	8.6	9.7	9.7	10.1	10.6	10.1
90°	3.9	6.5	9.2	11.8	14.9	18.3	21.8	25.2	28.7	29.7	30.8
92.5°	30.7	32.5	34.3	36.1	38.0	40.0	41.9	43.9	45.9	46.7	47.5
95°	72.3	74.2	76.0	78.0	79.9	82.0	84.1	86.3	88.4	89.4	90.5
97.5°	126.6	127.9	129.4	130.7	132.1	133.7	135.2	136.8	138.3	139.6	140.8
100°	164.1	165.6	167.2	168.8	170.3	171.6	172.9	174.3	175.6	176.4	177.2
102.5°	206.4	207.4	208.3	209.3	210.6	212.4	214.1	215.9	217.6	218.5	219.3
105°	269.3	269.8	270.4	270.9	272.4	274.7	277.1	279.6	281.9	281.9	281.9
107.5°	342.7	343.0	343.3	343.6	344.3	345.2	346.2	347.1	348.1	349.0	349.8
110°	388.8	389.3	389.8	390.4	390.9	391.4	392.0	392.4	393.0	394.1	395.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	436.3	436.7	437.0	437.3	437.5	437.6	437.7	437.8	437.9	439.2	440.5
115°	508.5	509.3	510.1	510.9	511.0	510.5	509.9	509.5	508.9	509.1	509.5
117.5°	580.4	580.9	581.5	581.9	581.9	581.2	580.5	579.8	579.2	579.1	579.0
120°	626.4	628.0	629.5	631.1	631.3	629.9	628.6	627.2	626.0	625.7	625.4
122.5°	672.7	673.9	675.1	676.3	676.5	675.8	675.1	674.5	673.8	673.0	672.3
125°	743.8	744.7	745.4	746.2	746.3	745.8	745.3	744.7	744.3	743.1	742.1
127.5°	810.6	812.4	814.0	815.8	816.3	815.7	815.2	814.6	814.0	812.5	811.0
130°	855.1	857.1	859.3	861.4	862.1	861.3	860.5	859.7	858.9	857.9	856.7
132.5°	899.0	901.1	903.2	905.4	906.2	905.5	905.0	904.4	903.8	902.5	901.3
135°	965.6	967.2	968.8	970.4	971.1	970.8	970.5	970.3	970.0	968.9	967.9
137.5°	1027.5	1028.8	1030.2	1031.4	1032.5	1033.2	1033.8	1034.5	1035.2	1034.1	1033.0
140°	1070.5	1071.8	1073.1	1074.4	1075.2	1075.5	1075.8	1076.0	1076.3	1076.0	1075.8
142.5°	1109.6	1111.0	1112.3	1113.6	1114.5	1115.0	1115.5	1115.9	1116.4	1116.2	1115.9
145°	1170.1	1170.5	1171.1	1171.6	1172.3	1173.1	1173.9	1174.6	1175.4	1175.2	1174.9
147.5°	1223.9	1224.9	1225.9	1226.9	1227.6	1228.4	1229.2	1229.9	1230.7	1230.7	1230.7
150°	1260.8	1261.3	1261.9	1262.4	1262.9	1263.5	1264.0	1264.5	1265.0	1265.0	1265.0
152.5°	1291.6	1292.4	1293.1	1293.8	1294.3	1294.7	1295.0	1295.3	1295.6	1296.1	1296.5
155°	1339.1	1339.1	1339.1	1339.1	1339.3	1339.5	1339.7	1340.1	1340.3	1341.4	1342.4
157.5°	1379.9	1379.6	1379.3	1379.0	1378.9	1379.1	1379.3	1379.5	1379.7	1380.9	1382.0
160°	1405.5	1404.9	1404.4	1403.9	1403.6	1403.6	1403.6	1403.6	1403.6	1404.9	1406.3
162.5°	1428.2	1427.4	1426.7	1426.0	1425.7	1425.9	1426.2	1426.3	1426.6	1427.9	1429.2
165°	1457.8	1457.0	1456.2	1455.4	1455.0	1455.0	1455.0	1455.0	1455.0	1456.6	1458.2
167.5°	1481.1	1480.1	1479.0	1478.0	1477.6	1477.7	1478.0	1478.2	1478.4	1480.0	1481.7
170°	1494.5	1493.5	1492.4	1491.4	1490.8	1490.8	1490.8	1490.8	1490.8	1492.7	1494.5
172.5°	1505.1	1504.0	1502.9	1501.9	1501.3	1501.3	1501.3	1501.3	1501.3	1503.0	1504.6
175°	1516.1	1515.0	1513.9	1512.8	1512.4	1512.4	1512.4	1512.4	1512.4	1513.9	1515.5
177.5°	1520.8	1520.0	1519.1	1518.2	1517.8	1517.8	1517.8	1517.8	1517.8	1519.1	1520.4
180°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	1021.9	1021.9	1023.3	1028.3	1028.9	1033.2	1031.9
5°	1123.2	1131.0	1133.9	1146.4	1153.8	1157.1	1150.5
7.5°	1246.9	1269.2	1279.7	1292.7	1304.2	1307.7	1298.6
10°	1337.1	1360.3	1379.9	1391.9	1403.1	1410.6	1420.1
12.5°	1424.4	1452.9	1471.5	1488.4	1500.0	1509.4	1511.0
15°	1519.2	1562.3	1595.1	1619.1	1631.2	1637.4	1634.9
17.5°	1614.9	1654.9	1678.2	1702.7	1719.4	1720.2	1720.7
20°	1669.0	1707.9	1734.9	1753.1	1771.8	1771.0	1775.1
22.5°	1705.1	1735.8	1756.4	1769.7	1776.2	1773.0	1773.8
25°	1722.0	1731.2	1727.4	1706.3	1700.9	1681.4	1684.7
27.5°	1634.7	1591.7	1547.0	1489.6	1444.3	1408.2	1410.0
30°	1516.3	1440.0	1352.9	1279.9	1214.4	1196.1	1157.1
32.5°	1350.8	1236.3	1134.2	1066.2	1010.0	994.7	960.8
35°	1070.1	958.9	854.0	790.9	766.0	731.2	730.8
37.5°	831.7	733.9	678.3	631.1	606.3	585.2	583.1
40°	699.7	623.4	581.5	547.5	523.0	507.2	503.5
42.5°	607.4	545.7	506.5	485.4	466.6	458.4	452.4
45°	496.1	454.6	427.2	408.1	399.4	393.2	389.8
47.5°	414.9	387.1	368.4	355.8	348.7	342.1	343.9
50°	370.8	348.0	334.3	322.3	316.9	312.3	312.8
52.5°	335.3	314.8	303.7	295.1	288.4	285.1	283.5
55°	284.6	271.6	260.5	254.2	250.5	246.0	244.7
57.5°	242.7	232.7	223.6	216.6	215.6	211.3	211.8
60°	214.8	206.5	199.1	195.4	192.4	188.7	190.0
62.5°	191.9	185.0	178.2	175.1	172.2	169.4	170.1
65°	157.2	150.5	146.4	144.7	143.5	142.3	141.0
67.5°	125.2	121.2	118.6	115.0	112.5	112.1	110.8
70°	105.4	100.0	95.4	90.9	89.6	89.2	89.6
72.5°	84.4	81.0	79.8	77.6	77.3	76.2	77.0
75°	63.5	62.2	61.4	59.7	59.7	59.7	59.7
77.5°	46.8	46.0	45.6	45.2	44.8	44.2	44.1
80°	36.5	36.0	35.3	35.3	34.9	35.3	34.9
82.5°	27.6	27.5	26.6	26.6	26.2	26.0	26.2
85°	14.1	13.7	14.5	13.7	14.1	13.3	14.1
87.5°	10.4	10.5	10.4	10.5	10.3	11.0	10.5
90°	31.8	33.0	33.7	34.2	34.8	35.3	35.8
92.5°	48.4	49.3	49.5	49.2	48.9	48.6	48.2
95°	91.6	92.6	93.2	93.2	93.2	93.2	93.2
97.5°	142.0	143.2	143.8	143.7	143.5	143.5	143.4
100°	178.0	178.8	179.4	180.0	180.5	181.0	181.6
102.5°	220.1	220.9	221.2	221.1	220.9	220.9	220.8
105°	281.9	281.9	282.2	282.7	283.3	283.8	284.3
107.5°	350.6	351.5	351.7	351.4	351.1	350.8	350.5
110°	396.2	397.3	397.5	397.0	396.5	395.9	395.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	441.7	443.0	443.6	443.5	443.4	443.3	443.1
115°	509.7	509.9	509.9	509.7	509.5	509.1	508.9
117.5°	579.0	578.9	578.5	577.7	577.0	576.3	575.5
120°	625.2	624.9	624.5	624.0	623.4	622.9	622.3
122.5°	671.7	671.0	670.3	669.6	668.8	668.0	667.3
125°	741.0	740.0	738.9	737.8	736.8	735.7	734.7
127.5°	809.5	808.0	806.7	805.5	804.2	803.0	801.8
130°	855.7	854.7	853.2	851.4	849.5	847.6	845.7
132.5°	900.0	898.7	897.4	896.0	894.5	893.0	891.6
135°	966.8	965.7	965.0	964.4	963.8	963.4	962.8
137.5°	1031.9	1030.8	1029.7	1028.6	1027.7	1026.7	1025.6
140°	1075.5	1075.2	1074.2	1072.3	1070.5	1068.6	1066.8
142.5°	1115.6	1115.4	1114.5	1113.1	1111.7	1110.2	1108.8
145°	1174.6	1174.4	1173.7	1172.7	1171.6	1170.5	1169.5
147.5°	1230.7	1230.7	1229.9	1228.3	1226.7	1225.0	1223.4
150°	1265.0	1265.0	1264.2	1262.7	1261.1	1259.5	1257.9
152.5°	1296.9	1297.4	1296.9	1295.5	1294.1	1292.7	1291.3
155°	1343.5	1344.6	1344.2	1342.3	1340.5	1338.6	1336.7
157.5°	1383.1	1384.2	1384.0	1382.5	1381.0	1379.5	1378.1
160°	1407.6	1408.9	1409.1	1408.0	1406.9	1405.9	1404.8
162.5°	1430.5	1431.9	1431.7	1430.0	1428.3	1426.6	1424.9
165°	1459.8	1461.3	1461.3	1459.4	1457.5	1455.6	1453.8
167.5°	1483.4	1484.9	1484.9	1483.4	1481.7	1480.0	1478.4
170°	1496.4	1498.3	1498.3	1496.4	1494.5	1492.7	1490.8
172.5°	1506.3	1507.9	1507.8	1505.9	1504.1	1502.2	1500.4
175°	1517.1	1518.7	1518.5	1516.7	1514.8	1513.0	1511.2
177.5°	1521.6	1522.9	1522.8	1521.3	1519.8	1518.4	1516.9
180°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7

(END OF REPORT)