

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: P331982-930

Luminaire Tested: **S123DIP-S775D1025U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331982-930
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: S123DIP-S775D1025U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6002.3 lumens
Efficiency: N/A
Efficacy: 115.4 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: General Diffuse

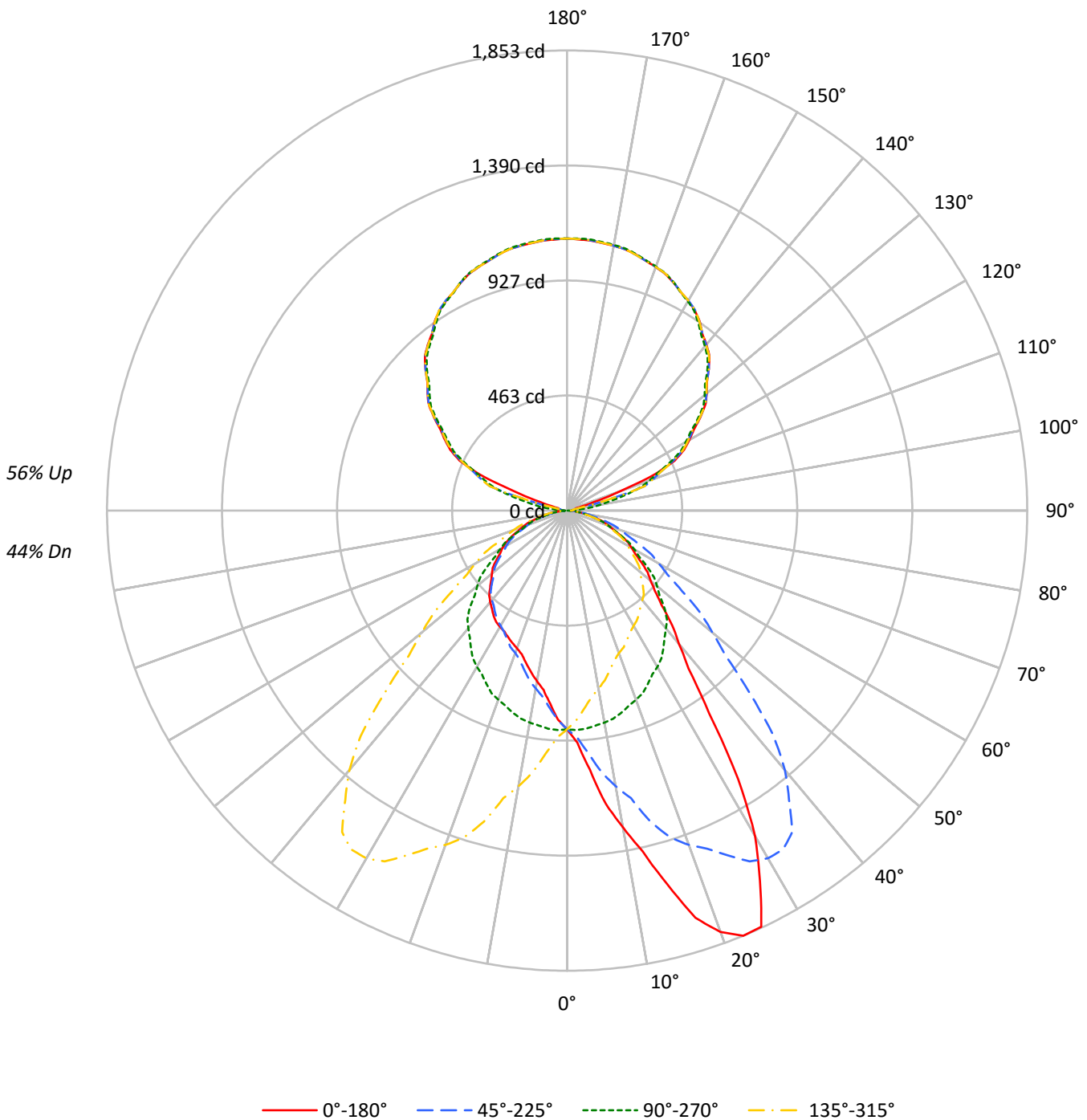
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	71	68	66	57	56	55	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9482	9482	9482	9482
5°	11309	9524	8440	9524
10°	14154	9475	7623	9475
15°	17361	9399	7096	9399
20°	20681	9279	6757	9279
25°	21960	9136	6682	9136
30°	18821	9028	6717	9028
35°	13090	8878	6787	8878
40°	9860	8702	6764	8702
45°	8187	8441	6680	8441
50°	7333	7906	6620	7906
55°	6855	7328	6536	7328
60°	6433	6725	6469	6725
65°	6044	6133	6260	6133
70°	5668	5454	5964	5454
75°	5078	4774	5465	4774
80°	4444	3918	4711	3918
85°	3483	2853	3162	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.4
10°-20°	278.3	4.6
20°-30°	467.0	7.8
30°-40°	528.8	8.8
40°-50°	474.2	7.9
50°-60°	382.7	6.4
60°-70°	266.7	4.4
70°-80°	140.2	2.3
80°-90°	37.3	0.6
90°-100°	39.8	0.7
100°-110°	189.8	3.2
110°-120°	455.9	7.6
120°-130°	580.5	9.7
130°-140°	620.3	10.3
140°-150°	580.0	9.7
150°-160°	467.9	7.8
160°-170°	302.0	5.0
170°-180°	104.1	1.7
0°-30°	832.1	13.9
0°-40°	1360.9	22.7
0°-60°	2217.8	36.9
0°-90°	2662.0	44.3
90°-120°	685.5	11.4
90°-150°	2466.4	41.1
90°-180°	3340.0	55.6
0°-180°	6002.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	881	881	881	881	881	
5°	1047	881	781	881	1047	108
15°	1558	843	637	843	1558	450
25°	1849	769	563	769	1849	811
35°	996	676	516	676	996	647
45°	538	554	439	554	538	426
55°	365	390	348	390	365	328
65°	237	241	246	241	237	236
75°	122	115	131	115	122	131
85°	28	23	26	23	28	34
90°	24	1	24	1	24	12
95°	31	50	31	50	31	26
105°	36	242	36	242	36	82
115°	478	455	478	455	478	442
125°	654	641	654	641	654	584
135°	806	798	806	798	806	622
145°	930	921	930	921	930	581
155°	1013	1015	1013	1015	1013	467
165°	1068	1070	1068	1070	1068	301
175°	1091	1095	1091	1095	1091	104
180°	1095	1095	1095	1095	1095	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	934.9	934.3	932.5	933.9	931.2	927.4	927.1	923.7	913.7	913.1	910.4
5°	1046.6	1043.2	1042.8	1042.3	1036.3	1028.3	1012.8	1011.5	991.1	980.8	968.5
7.5°	1191.2	1192.9	1186.7	1181.3	1163.0	1151.0	1134.5	1113.4	1088.3	1062.7	1045.7
10°	1295.0	1309.0	1291.6	1279.6	1268.5	1247.6	1223.3	1192.9	1162.7	1127.2	1100.3
12.5°	1406.3	1413.2	1409.7	1398.5	1381.2	1349.4	1306.3	1272.8	1245.0	1185.9	1162.1
15°	1557.9	1584.0	1567.3	1528.8	1529.7	1499.4	1443.1	1381.2	1348.3	1296.7	1226.3
17.5°	1719.4	1722.6	1715.6	1683.6	1662.2	1620.6	1568.6	1509.3	1442.7	1380.1	1305.5
20°	1805.5	1802.9	1788.0	1771.3	1734.6	1702.2	1645.4	1579.2	1493.9	1432.4	1350.9
22.5°	1853.3	1849.0	1841.9	1828.0	1797.4	1762.6	1711.6	1639.3	1558.1	1473.4	1379.2
25°	1849.0	1854.6	1855.4	1851.5	1840.9	1820.0	1779.9	1722.2	1641.1	1532.3	1434.1
27.5°	1681.7	1689.5	1712.4	1732.6	1755.2	1778.2	1775.2	1746.5	1686.5	1592.6	1472.5
30°	1514.3	1497.3	1539.5	1592.9	1629.2	1693.2	1729.1	1731.2	1697.5	1616.8	1499.8
32.5°	1282.1	1301.0	1319.6	1385.3	1464.6	1536.5	1607.9	1665.3	1671.9	1618.2	1515.9
35°	996.2	1019.7	1053.9	1087.9	1173.4	1246.8	1372.2	1481.5	1568.6	1580.1	1517.4
37.5°	802.7	814.4	836.0	870.2	926.0	1013.1	1110.2	1248.3	1374.4	1468.3	1472.3
40°	701.7	705.2	729.4	755.5	800.7	872.5	959.9	1082.0	1233.1	1364.2	1418.8
42.5°	625.9	633.4	643.8	668.7	704.7	758.7	840.1	940.9	1079.5	1230.3	1337.2
45°	537.8	546.3	552.8	569.4	595.0	631.3	688.0	780.2	885.7	1041.5	1185.3
47.5°	479.6	480.3	485.0	497.6	515.0	542.3	582.4	641.6	738.4	864.7	1012.4
50°	437.9	444.7	446.5	456.2	469.9	490.0	523.3	573.6	653.1	764.0	899.8
52.5°	408.5	410.6	415.4	422.5	434.4	450.0	478.9	518.4	580.7	675.2	800.1
55°	365.3	365.3	370.1	375.6	382.5	396.5	415.7	444.7	492.1	565.6	668.9
57.5°	325.4	327.5	330.8	332.6	338.3	347.7	363.7	385.8	421.1	477.6	559.7
60°	298.8	302.6	302.2	305.6	310.7	318.0	331.7	349.6	381.2	426.4	495.5
62.5°	275.6	275.3	275.2	279.3	284.5	291.4	300.2	315.8	342.6	382.7	441.6
65°	237.3	236.4	239.5	242.0	243.7	248.8	255.7	269.3	287.2	317.2	362.8
67.5°	203.3	200.9	202.5	203.3	206.3	210.3	216.6	225.1	239.4	263.3	297.7
70°	180.1	178.0	177.6	178.4	181.0	183.9	188.7	196.7	210.0	229.2	254.4
72.5°	156.2	154.7	154.7	156.5	157.8	159.7	163.1	170.5	181.0	195.4	218.9
75°	122.1	122.1	122.1	122.5	123.8	125.5	128.1	131.9	140.0	150.3	166.0
77.5°	91.5	91.4	90.9	90.8	92.7	93.5	94.1	97.7	102.2	109.1	120.6
80°	71.7	69.5	70.4	71.7	72.6	73.0	74.3	75.1	79.0	82.8	90.9
82.5°	53.2	51.4	51.6	53.6	53.8	54.2	55.5	56.7	58.1	61.6	66.0
85°	28.2	28.2	28.6	28.6	29.0	28.6	29.8	30.3	30.3	32.4	35.0
87.5°	15.2	14.3	14.7	14.9	14.5	14.8	14.9	15.1	15.3	15.5	15.4
90°	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0	20.2	19.6	17.2
92.5°	27.0	26.8	26.6	26.3	26.2	25.4	24.3	23.2	22.0	20.9	19.1
95°	30.9	30.9	30.9	30.9	30.9	30.3	29.0	27.7	26.5	25.2	23.2
97.5°	33.5	33.3	33.2	33.0	32.8	32.0	30.6	29.1	27.6	26.2	39.2
100°	34.2	34.0	33.8	33.7	33.4	32.6	31.2	29.8	28.3	26.8	55.0
102.5°	34.8	34.5	34.2	33.8	33.5	35.6	40.1	44.6	49.1	53.6	84.4
105°	35.8	35.5	35.1	34.7	34.3	50.2	82.2	114.2	146.2	178.2	194.5
107.5°	112.4	136.6	160.7	184.8	209.0	232.8	256.2	279.7	303.2	326.7	324.1
110°	223.8	249.6	275.5	301.3	327.3	343.2	349.1	355.1	361.0	367.0	365.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	383.9	389.4	394.8	400.3	405.8	408.5	408.4	408.2	408.1	408.1	406.0
115°	478.5	477.8	477.0	476.3	475.6	474.3	472.5	470.8	469.0	467.1	465.5
117.5°	531.6	531.4	531.2	531.2	531.0	530.2	528.7	527.3	525.9	524.4	523.6
120°	568.0	568.0	568.0	568.0	568.0	567.3	565.8	564.4	563.0	561.5	561.0
122.5°	603.8	603.6	603.6	603.4	603.2	602.7	601.7	600.6	599.7	598.6	597.9
125°	654.3	654.0	653.5	653.2	652.8	652.5	652.1	651.8	651.4	651.0	650.3
127.5°	702.8	703.1	703.5	703.8	704.3	704.1	703.5	703.0	702.4	701.8	700.9
130°	734.0	734.4	734.7	735.2	735.5	735.3	734.6	733.9	733.1	732.4	731.6
132.5°	762.7	763.2	763.7	764.2	764.7	764.6	763.9	763.1	762.5	761.7	761.2
135°	806.5	807.0	807.6	808.1	808.6	808.6	808.1	807.6	807.0	806.5	805.8
137.5°	847.7	848.0	848.4	848.7	849.1	848.8	848.0	847.1	846.2	845.4	845.0
140°	872.4	872.8	873.1	873.4	873.8	873.7	872.9	872.2	871.5	870.7	870.3
142.5°	895.2	895.7	896.2	896.7	897.2	897.2	896.6	896.0	895.4	894.9	894.3
145°	930.2	930.2	930.2	930.2	930.2	930.0	929.6	929.3	928.9	928.5	928.1
147.5°	956.2	957.0	957.9	958.7	959.5	959.8	959.4	959.0	958.7	958.3	958.0
150°	975.8	976.2	976.8	977.4	977.9	978.0	977.6	977.3	976.9	976.6	976.2
152.5°	991.3	992.2	993.0	993.8	994.7	994.7	994.1	993.4	992.8	992.1	992.0
155°	1013.2	1014.2	1015.4	1016.4	1017.5	1017.6	1016.7	1015.8	1014.9	1014.0	1013.8
157.5°	1031.6	1033.0	1034.4	1035.8	1037.2	1037.4	1036.2	1035.2	1034.1	1033.0	1033.2
160°	1043.3	1044.6	1045.8	1047.1	1048.3	1048.4	1047.3	1046.3	1045.2	1044.1	1044.2
162.5°	1054.3	1055.5	1056.5	1057.7	1058.8	1058.7	1057.5	1056.3	1055.1	1053.9	1054.0
165°	1067.7	1068.9	1070.2	1071.5	1072.8	1072.7	1071.2	1069.8	1068.3	1066.9	1067.1
167.5°	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0	1081.7	1080.2	1078.7	1077.3	1077.3
170°	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9	1087.5	1086.1	1084.6	1083.1	1083.1
172.5°	1086.4	1088.0	1089.6	1091.2	1092.7	1092.8	1091.4	1090.0	1088.5	1087.0	1086.9
175°	1091.3	1092.7	1094.2	1095.6	1097.1	1097.1	1095.9	1094.6	1093.4	1092.1	1091.9
177.5°	1092.7	1094.2	1095.7	1097.1	1098.5	1098.7	1097.6	1096.3	1095.2	1094.1	1093.9
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	908.2	905.6	902.8	898.1	894.0	888.1	886.4	884.4	878.2	872.8	868.7
5°	963.8	953.5	938.6	925.0	913.9	898.9	890.4	881.4	868.6	857.0	847.7
7.5°	1021.8	1001.7	978.4	953.3	929.9	907.4	889.2	873.0	855.1	838.1	824.9
10°	1067.9	1038.9	1006.5	971.4	941.6	912.6	888.2	866.9	843.8	823.8	807.1
12.5°	1120.5	1077.5	1032.7	990.3	954.9	914.6	885.2	858.0	831.8	807.7	789.0
15°	1182.8	1128.1	1075.1	1016.7	963.0	912.6	877.6	843.4	813.1	788.3	764.4
17.5°	1239.4	1177.5	1107.7	1036.7	971.8	912.1	863.1	824.4	786.5	756.3	732.5
20°	1271.5	1201.1	1122.1	1048.3	976.6	910.0	856.2	810.1	769.2	737.1	710.2
22.5°	1299.2	1216.8	1135.1	1056.1	976.2	904.5	843.6	796.1	751.7	720.4	691.8
25°	1327.9	1229.2	1147.3	1054.7	965.5	891.2	822.9	769.2	724.7	688.0	658.6
27.5°	1352.4	1228.4	1131.1	1031.5	948.6	874.2	801.2	743.6	696.4	656.6	626.6
30°	1368.8	1230.1	1114.4	1015.9	932.2	855.3	784.5	726.4	676.9	636.4	608.2
32.5°	1379.1	1229.1	1099.1	994.0	906.2	838.3	766.4	706.3	655.4	615.6	588.4
35°	1385.0	1221.6	1072.6	948.8	864.3	798.2	738.0	675.6	622.3	585.1	554.5
37.5°	1373.1	1205.7	1041.9	905.3	812.8	747.6	697.0	643.9	592.9	552.0	525.5
40°	1354.3	1195.6	1018.0	874.6	777.2	714.5	671.4	619.3	568.9	530.1	505.3
42.5°	1318.4	1174.7	991.6	840.4	740.4	677.6	638.0	594.4	546.7	510.3	485.6
45°	1230.9	1129.4	952.3	789.2	685.9	621.0	586.0	554.5	511.4	475.9	454.5
47.5°	1109.5	1061.2	895.2	735.2	629.1	566.6	530.3	504.8	473.4	444.7	424.3
50°	1025.2	1005.2	856.6	698.3	591.2	530.1	495.1	472.1	449.5	420.9	402.1
52.5°	927.9	940.3	811.5	660.1	552.5	492.5	459.6	441.3	420.8	397.3	380.9
55°	790.9	835.7	733.7	595.8	495.1	437.9	406.8	390.5	378.6	361.1	347.0
57.5°	662.6	719.7	649.5	529.7	438.7	389.4	359.5	341.8	334.1	325.0	313.9
60°	586.4	642.8	589.5	485.3	400.8	353.8	327.3	312.4	304.8	298.3	288.9
62.5°	518.5	575.5	530.7	440.3	363.5	320.0	297.0	282.4	276.4	273.0	265.1
65°	425.1	474.2	444.3	370.1	310.3	271.9	250.9	240.8	235.2	233.9	228.8
67.5°	346.0	383.4	361.6	307.0	259.9	226.7	209.0	200.2	196.0	195.6	191.8
70°	294.1	329.1	312.4	262.9	222.4	196.3	181.0	173.3	170.7	170.3	168.2
72.5°	253.8	278.2	265.0	223.6	192.3	168.7	157.4	149.4	146.5	147.1	145.6
75°	187.8	206.2	198.4	169.9	144.7	129.3	119.9	114.8	112.3	113.6	111.9
77.5°	135.1	146.8	139.8	120.0	104.5	93.4	86.5	83.3	81.0	81.0	80.1
80°	102.0	108.8	105.0	93.0	80.2	70.8	65.3	63.2	61.9	61.5	61.1
82.5°	72.6	78.4	73.9	65.7	57.0	51.4	48.3	45.4	44.5	44.8	44.3
85°	36.7	38.8	37.1	32.0	28.6	26.0	24.3	23.1	22.2	22.6	21.8
87.5°	15.6	15.5	13.9	12.2	11.2	9.8	9.4	8.4	8.1	8.4	8.4
90°	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8	2.6	4.4	6.3
92.5°	17.3	15.5	13.8	13.1	13.6	14.1	14.6	15.2	14.6	14.1	13.6
95°	21.3	19.2	17.3	20.0	27.4	34.8	42.2	49.7	42.2	34.8	27.4
97.5°	52.3	65.3	78.3	86.4	89.8	93.1	96.4	99.8	96.4	93.1	89.8
100°	83.2	111.5	139.7	152.0	148.4	144.8	141.1	137.5	141.1	144.8	148.4
102.5°	115.2	146.0	176.8	190.9	188.3	185.7	183.1	180.5	183.1	185.7	188.3
105°	210.8	227.1	243.3	250.5	248.5	246.5	244.5	242.5	244.5	246.5	248.5
107.5°	321.6	318.9	316.4	314.3	312.7	311.1	309.6	307.9	309.6	311.1	312.7
110°	363.1	361.0	359.1	357.3	355.9	354.4	353.0	351.6	353.0	354.4	355.9



TEST NUMBER: P331982-930

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	404.1	402.1	400.1	398.4	397.1	395.8	394.5	393.2	394.5	395.8	397.1
115°	463.8	462.2	460.6	459.3	458.2	457.1	456.0	454.9	456.0	457.1	458.2
117.5°	522.8	521.9	521.1	520.0	518.7	517.3	516.0	514.6	516.0	517.3	518.7
120°	560.4	559.9	559.4	558.2	556.6	555.0	553.3	551.7	553.3	555.0	556.6
122.5°	597.3	596.6	595.9	594.8	593.5	592.2	590.8	589.5	590.8	592.2	593.5
125°	649.5	648.9	648.2	647.0	645.6	644.2	642.7	641.2	642.7	644.2	645.6
127.5°	700.1	699.2	698.3	697.2	695.7	694.3	692.8	691.4	692.8	694.3	695.7
130°	731.0	730.3	729.5	728.5	727.0	725.5	724.1	722.7	724.1	725.5	727.0
132.5°	760.5	759.9	759.4	758.4	756.9	755.5	754.1	752.6	754.1	755.5	756.9
135°	805.0	804.3	803.6	802.7	801.6	800.5	799.4	798.3	799.4	800.5	801.6
137.5°	844.6	844.2	843.8	842.9	841.6	840.2	838.8	837.4	838.8	840.2	841.6
140°	869.7	869.1	868.6	867.8	866.7	865.6	864.5	863.4	864.5	865.6	866.7
142.5°	893.7	893.2	892.7	891.9	890.8	889.7	888.6	887.5	888.6	889.7	890.8
145°	927.8	927.5	927.1	926.3	925.0	923.7	922.5	921.2	922.5	923.7	925.0
147.5°	957.6	957.2	956.8	956.3	955.4	954.6	953.8	952.9	953.8	954.6	955.4
150°	975.8	975.4	975.1	974.6	974.1	973.5	973.1	972.5	973.1	973.5	974.1
152.5°	991.7	991.5	991.3	991.1	990.8	990.6	990.3	990.0	990.3	990.6	990.8
155°	1013.6	1013.4	1013.3	1013.3	1013.7	1014.1	1014.4	1014.8	1014.4	1014.1	1013.7
157.5°	1033.4	1033.6	1033.7	1033.9	1033.9	1034.0	1034.0	1034.0	1034.0	1034.0	1033.9
160°	1044.5	1044.6	1044.8	1045.0	1045.2	1045.4	1045.5	1045.7	1045.5	1045.4	1045.2
162.5°	1054.2	1054.4	1054.6	1054.9	1055.4	1055.8	1056.3	1056.8	1056.3	1055.8	1055.4
165°	1067.2	1067.4	1067.6	1068.0	1068.5	1069.0	1069.6	1070.2	1069.6	1069.0	1068.5
167.5°	1077.3	1077.3	1077.3	1077.7	1078.4	1079.1	1079.9	1080.5	1079.9	1079.1	1078.4
170°	1083.1	1083.1	1083.1	1083.5	1084.3	1085.0	1085.7	1086.4	1085.7	1085.0	1084.3
172.5°	1086.8	1086.6	1086.5	1086.9	1087.7	1088.6	1089.5	1090.3	1089.5	1088.6	1087.7
175°	1091.8	1091.5	1091.4	1091.8	1092.7	1093.6	1094.5	1095.4	1094.5	1093.6	1092.7
177.5°	1093.8	1093.6	1093.5	1093.8	1094.5	1095.2	1095.9	1096.7	1095.9	1095.2	1094.5
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	866.3	863.9	860.5	855.3	851.3	844.7	844.7	845.8	845.8	845.5	844.7
5°	840.0	833.6	825.9	816.9	807.6	798.2	796.5	793.0	790.5	788.8	786.6
7.5°	812.3	800.9	789.7	777.1	765.7	756.3	749.7	744.2	740.7	736.9	734.3
10°	793.4	779.3	766.1	752.9	738.4	726.9	719.7	714.5	710.7	707.3	705.6
12.5°	771.3	755.1	740.5	728.0	712.1	700.3	693.3	691.0	686.4	679.2	675.5
15°	738.8	723.9	706.4	687.2	679.5	665.0	656.9	653.1	650.4	644.9	643.2
17.5°	711.1	691.5	671.9	657.5	643.3	631.5	627.0	622.2	618.8	614.2	612.9
20°	688.9	671.4	653.5	638.1	623.1	610.3	606.5	603.1	599.7	597.5	595.8
22.5°	666.3	648.9	634.0	619.6	603.7	595.3	591.2	587.4	585.0	583.6	581.9
25°	634.7	619.3	602.7	589.9	577.1	571.5	568.9	566.8	565.1	563.0	562.6
27.5°	606.3	589.6	576.1	564.2	555.0	550.3	547.9	546.8	547.2	548.0	548.5
30°	585.1	569.8	558.7	548.5	540.0	535.7	535.2	535.2	537.0	537.4	538.3
32.5°	565.7	553.1	542.0	532.1	525.6	522.7	524.3	524.3	525.7	526.8	528.3
35°	537.4	526.3	517.7	509.2	503.7	504.9	505.8	506.6	508.7	511.4	513.1
37.5°	510.3	500.7	491.8	485.1	482.6	484.9	486.9	488.7	491.2	493.2	494.9
40°	490.8	483.6	475.1	469.0	469.9	471.2	473.0	475.1	477.2	478.5	480.2
42.5°	472.7	465.1	458.7	453.7	454.9	456.6	457.5	458.7	461.1	463.4	464.5
45°	445.2	439.2	433.3	430.2	431.1	431.9	432.8	434.1	436.2	437.9	438.4
47.5°	414.2	410.0	406.0	403.1	404.5	404.1	405.2	408.0	408.6	409.7	412.1
50°	394.4	390.5	385.9	385.0	385.0	385.0	385.4	388.8	388.8	390.5	392.2
52.5°	372.5	370.1	367.0	365.5	364.8	364.8	366.6	368.4	369.0	371.5	373.2
55°	340.1	337.6	335.1	333.8	332.9	333.8	337.2	338.0	340.1	341.4	342.8
57.5°	306.5	304.5	302.5	301.7	301.6	302.7	304.6	307.1	307.7	311.6	313.6
60°	284.3	281.3	279.6	279.6	278.8	282.6	281.7	286.0	286.8	289.3	292.4
62.5°	261.4	257.4	256.7	256.7	257.9	259.0	260.2	262.0	264.3	267.5	269.9
65°	224.5	222.4	225.3	224.9	224.0	226.7	226.7	228.8	231.3	234.3	239.0
67.5°	189.6	188.5	188.7	188.7	190.0	191.5	192.7	194.5	197.6	200.8	203.8
70°	166.0	167.3	165.2	166.9	168.2	168.6	169.4	172.0	175.5	177.6	181.0
72.5°	143.2	143.1	143.3	144.0	145.3	146.0	146.9	149.9	153.6	155.4	158.1
75°	110.1	109.7	111.0	111.0	113.1	114.0	114.8	116.1	119.5	122.1	124.2
77.5°	80.4	81.0	80.6	82.1	81.5	81.7	84.3	85.6	85.9	91.0	92.1
80°	60.6	61.5	61.9	62.3	62.8	61.9	64.9	66.1	66.1	69.1	71.3
82.5°	43.5	44.0	45.2	45.6	45.7	46.6	46.8	47.7	48.8	50.1	52.8
85°	21.8	23.1	23.5	23.1	23.5	22.6	23.9	24.3	24.8	24.8	24.8
87.5°	8.5	9.2	9.3	10.1	10.3	11.1	11.3	10.7	10.8	12.0	10.8
90°	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0	21.7	22.4	23.0
92.5°	13.1	13.8	15.5	17.3	19.1	20.9	22.0	23.2	24.3	25.4	26.2
95°	20.0	17.3	19.2	21.3	23.2	25.2	26.5	27.7	29.0	30.3	30.9
97.5°	86.4	78.3	65.3	52.3	39.2	26.2	27.6	29.1	30.6	32.0	32.8
100°	152.0	139.7	111.5	83.2	55.0	26.8	28.3	29.8	31.2	32.6	33.4
102.5°	190.9	176.8	146.0	115.2	84.4	53.6	49.1	44.6	40.1	35.6	33.5
105°	250.5	243.3	227.1	210.8	194.5	178.2	146.2	114.2	82.2	50.2	34.3
107.5°	314.3	316.4	318.9	321.6	324.1	326.7	303.2	279.7	256.2	232.8	209.0
110°	357.3	359.1	361.0	363.1	365.0	367.0	361.0	355.1	349.1	343.2	327.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	398.4	400.1	402.1	404.1	406.0	408.1	408.1	408.2	408.4	408.5	405.8
115°	459.3	460.6	462.2	463.8	465.5	467.1	469.0	470.8	472.5	474.3	475.6
117.5°	520.0	521.1	521.9	522.8	523.6	524.4	525.9	527.3	528.7	530.2	531.0
120°	558.2	559.4	559.9	560.4	561.0	561.5	563.0	564.4	565.8	567.3	568.0
122.5°	594.8	595.9	596.6	597.3	597.9	598.6	599.7	600.6	601.7	602.7	603.2
125°	647.0	648.2	648.9	649.5	650.3	651.0	651.4	651.8	652.1	652.5	652.8
127.5°	697.2	698.3	699.2	700.1	700.9	701.8	702.4	703.0	703.5	704.1	704.3
130°	728.5	729.5	730.3	731.0	731.6	732.4	733.1	733.9	734.6	735.3	735.5
132.5°	758.4	759.4	759.9	760.5	761.2	761.7	762.5	763.1	763.9	764.6	764.7
135°	802.7	803.6	804.3	805.0	805.8	806.5	807.0	807.6	808.1	808.6	808.6
137.5°	842.9	843.8	844.2	844.6	845.0	845.4	846.2	847.1	848.0	848.8	849.1
140°	867.8	868.6	869.1	869.7	870.3	870.7	871.5	872.2	872.9	873.7	873.8
142.5°	891.9	892.7	893.2	893.7	894.3	894.9	895.4	896.0	896.6	897.2	897.2
145°	926.3	927.1	927.5	927.8	928.1	928.5	928.9	929.3	929.6	930.0	930.2
147.5°	956.3	956.8	957.2	957.6	958.0	958.3	958.7	959.0	959.4	959.8	959.5
150°	974.6	975.1	975.4	975.8	976.2	976.6	976.9	977.3	977.6	978.0	977.9
152.5°	991.1	991.3	991.5	991.7	992.0	992.1	992.8	993.4	994.1	994.7	994.7
155°	1013.3	1013.3	1013.4	1013.6	1013.8	1014.0	1014.9	1015.8	1016.7	1017.6	1017.5
157.5°	1033.9	1033.7	1033.6	1033.4	1033.2	1033.0	1034.1	1035.2	1036.2	1037.4	1037.2
160°	1045.0	1044.8	1044.6	1044.5	1044.2	1044.1	1045.2	1046.3	1047.3	1048.4	1048.3
162.5°	1054.9	1054.6	1054.4	1054.2	1054.0	1053.9	1055.1	1056.3	1057.5	1058.7	1058.8
165°	1068.0	1067.6	1067.4	1067.2	1067.1	1066.9	1068.3	1069.8	1071.2	1072.7	1072.8
167.5°	1077.7	1077.3	1077.3	1077.3	1077.3	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0
170°	1083.5	1083.1	1083.1	1083.1	1083.1	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9
172.5°	1086.9	1086.5	1086.6	1086.8	1086.9	1087.0	1088.5	1090.0	1091.4	1092.8	1092.7
175°	1091.8	1091.4	1091.5	1091.8	1091.9	1092.1	1093.4	1094.6	1095.9	1097.1	1097.1
177.5°	1093.8	1093.5	1093.6	1093.8	1093.9	1094.1	1095.2	1096.3	1097.6	1098.7	1098.5
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



TEST NUMBER: P331982-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	842.4	842.0	844.4	842.7	844.4	842.0	842.4	844.7	845.5	845.8	845.8
5°	784.1	785.4	781.1	781.1	781.1	785.4	784.1	786.6	788.8	790.5	793.0
7.5°	732.1	730.3	730.4	728.1	730.4	730.3	732.1	734.3	736.9	740.7	744.2
10°	700.4	697.9	697.0	697.4	697.0	697.9	700.4	705.6	707.3	710.7	714.5
12.5°	674.1	673.6	668.0	668.1	668.0	673.6	674.1	675.5	679.2	686.4	691.0
15°	643.2	635.1	634.2	636.8	634.2	635.1	643.2	643.2	644.9	650.4	653.1
17.5°	612.2	608.0	608.2	606.9	608.2	608.0	612.2	612.9	614.2	618.8	622.2
20°	595.8	593.3	592.9	589.9	592.9	593.3	595.8	595.8	597.5	599.7	603.1
22.5°	580.8	580.0	580.2	576.9	580.2	580.0	580.8	581.9	583.6	585.0	587.4
25°	562.1	564.3	562.6	562.6	562.6	564.3	562.1	562.6	563.0	565.1	566.8
27.5°	549.5	549.4	548.5	548.5	548.5	549.4	549.5	548.5	548.0	547.2	546.8
30°	540.0	539.5	540.4	540.4	540.4	539.5	540.0	538.3	537.4	537.0	535.2
32.5°	530.4	531.0	531.2	531.5	531.2	531.0	530.4	528.3	526.8	525.7	524.3
35°	515.6	516.0	517.3	516.5	517.3	516.0	515.6	513.1	511.4	508.7	506.6
37.5°	495.6	497.6	497.2	497.8	497.2	497.6	495.6	494.9	493.2	491.2	488.7
40°	480.6	481.9	481.4	481.4	481.4	481.9	480.6	480.2	478.5	477.2	475.1
42.5°	465.2	466.2	465.0	464.4	465.0	466.2	465.2	464.5	463.4	461.1	458.7
45°	440.0	439.2	440.5	438.8	440.5	439.2	440.0	438.4	437.9	436.2	434.1
47.5°	411.9	412.7	413.1	414.3	413.1	412.7	411.9	412.1	409.7	408.6	408.0
50°	393.1	395.7	395.7	395.3	395.7	395.7	393.1	392.2	390.5	388.8	388.8
52.5°	374.6	375.9	377.6	377.5	377.6	375.9	374.6	373.2	371.5	369.0	368.4
55°	346.2	347.0	347.9	348.3	347.9	347.0	346.2	342.8	341.4	340.1	338.0
57.5°	316.6	316.3	318.3	318.9	318.3	316.3	316.6	313.6	311.6	307.7	307.1
60°	295.8	295.8	299.2	300.5	299.2	295.8	295.8	292.4	289.3	286.8	286.0
62.5°	273.6	275.0	278.3	276.5	278.3	275.0	273.6	269.9	267.5	264.3	262.0
65°	241.2	244.6	244.2	245.8	244.2	244.6	241.2	239.0	234.3	231.3	228.8
67.5°	207.2	209.4	212.5	212.7	212.5	209.4	207.2	203.8	200.8	197.6	194.5
70°	184.4	186.5	188.3	189.5	188.3	186.5	184.4	181.0	177.6	175.5	172.0
72.5°	162.2	163.3	167.4	165.6	167.4	163.3	162.2	158.1	155.4	153.6	149.9
75°	127.2	130.2	132.7	131.4	132.7	130.2	127.2	124.2	122.1	119.5	116.1
77.5°	94.1	97.0	98.2	97.2	98.2	97.0	94.1	92.1	91.0	85.9	85.6
80°	74.3	73.9	76.4	76.0	76.4	73.9	74.3	71.3	69.1	66.1	66.1
82.5°	54.5	54.1	55.2	55.5	55.2	54.1	54.5	52.8	50.1	48.8	47.7
85°	26.5	27.7	26.0	25.6	26.0	27.7	26.5	24.8	24.8	24.8	24.3
87.5°	10.8	10.9	10.6	10.4	10.6	10.9	10.8	10.8	12.0	10.8	10.7
90°	23.3	23.7	24.1	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0
92.5°	26.3	26.6	26.8	27.0	26.8	26.6	26.3	26.2	25.4	24.3	23.2
95°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.3	29.0	27.7
97.5°	33.0	33.2	33.3	33.5	33.3	33.2	33.0	32.8	32.0	30.6	29.1
100°	33.7	33.8	34.0	34.2	34.0	33.8	33.7	33.4	32.6	31.2	29.8
102.5°	33.8	34.2	34.5	34.8	34.5	34.2	33.8	33.5	35.6	40.1	44.6
105°	34.7	35.1	35.5	35.8	35.5	35.1	34.7	34.3	50.2	82.2	114.2
107.5°	184.8	160.7	136.6	112.4	136.6	160.7	184.8	209.0	232.8	256.2	279.7
110°	301.3	275.5	249.6	223.8	249.6	275.5	301.3	327.3	343.2	349.1	355.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	400.3	394.8	389.4	383.9	389.4	394.8	400.3	405.8	408.5	408.4	408.2
115°	476.3	477.0	477.8	478.5	477.8	477.0	476.3	475.6	474.3	472.5	470.8
117.5°	531.2	531.2	531.4	531.6	531.4	531.2	531.2	531.0	530.2	528.7	527.3
120°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	567.3	565.8	564.4
122.5°	603.4	603.6	603.6	603.8	603.6	603.6	603.4	603.2	602.7	601.7	600.6
125°	653.2	653.5	654.0	654.3	654.0	653.5	653.2	652.8	652.5	652.1	651.8
127.5°	703.8	703.5	703.1	702.8	703.1	703.5	703.8	704.3	704.1	703.5	703.0
130°	735.2	734.7	734.4	734.0	734.4	734.7	735.2	735.5	735.3	734.6	733.9
132.5°	764.2	763.7	763.2	762.7	763.2	763.7	764.2	764.7	764.6	763.9	763.1
135°	808.1	807.6	807.0	806.5	807.0	807.6	808.1	808.6	808.6	808.1	807.6
137.5°	848.7	848.4	848.0	847.7	848.0	848.4	848.7	849.1	848.8	848.0	847.1
140°	873.4	873.1	872.8	872.4	872.8	873.1	873.4	873.8	873.7	872.9	872.2
142.5°	896.7	896.2	895.7	895.2	895.7	896.2	896.7	897.2	897.2	896.6	896.0
145°	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.0	929.6	929.3
147.5°	958.7	957.9	957.0	956.2	957.0	957.9	958.7	959.5	959.8	959.4	959.0
150°	977.4	976.8	976.2	975.8	976.2	976.8	977.4	977.9	978.0	977.6	977.3
152.5°	993.8	993.0	992.2	991.3	992.2	993.0	993.8	994.7	994.7	994.1	993.4
155°	1016.4	1015.4	1014.2	1013.2	1014.2	1015.4	1016.4	1017.5	1017.6	1016.7	1015.8
157.5°	1035.8	1034.4	1033.0	1031.6	1033.0	1034.4	1035.8	1037.2	1037.4	1036.2	1035.2
160°	1047.1	1045.8	1044.6	1043.3	1044.6	1045.8	1047.1	1048.3	1048.4	1047.3	1046.3
162.5°	1057.7	1056.5	1055.5	1054.3	1055.5	1056.5	1057.7	1058.8	1058.7	1057.5	1056.3
165°	1071.5	1070.2	1068.9	1067.7	1068.9	1070.2	1071.5	1072.8	1072.7	1071.2	1069.8
167.5°	1081.7	1080.2	1078.7	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0	1081.7	1080.2
170°	1087.5	1086.1	1084.6	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9	1087.5	1086.1
172.5°	1091.2	1089.6	1088.0	1086.4	1088.0	1089.6	1091.2	1092.7	1092.8	1091.4	1090.0
175°	1095.6	1094.2	1092.7	1091.3	1092.7	1094.2	1095.6	1097.1	1097.1	1095.9	1094.6
177.5°	1097.1	1095.7	1094.2	1092.7	1094.2	1095.7	1097.1	1098.5	1098.7	1097.6	1096.3
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	844.7	844.7	851.3	855.3	860.5	863.9	866.3	868.7	872.8	878.2	884.4
5°	796.5	798.2	807.6	816.9	825.9	833.6	840.0	847.7	857.0	868.6	881.4
7.5°	749.7	756.3	765.7	777.1	789.7	800.9	812.3	824.9	838.1	855.1	873.0
10°	719.7	726.9	738.4	752.9	766.1	779.3	793.4	807.1	823.8	843.8	866.9
12.5°	693.3	700.3	712.1	728.0	740.5	755.1	771.3	789.0	807.7	831.8	858.0
15°	656.9	665.0	679.5	687.2	706.4	723.9	738.8	764.4	788.3	813.1	843.4
17.5°	627.0	631.5	643.3	657.5	671.9	691.5	711.1	732.5	756.3	786.5	824.4
20°	606.5	610.3	623.1	638.1	653.5	671.4	688.9	710.2	737.1	769.2	810.1
22.5°	591.2	595.3	603.7	619.6	634.0	648.9	666.3	691.8	720.4	751.7	796.1
25°	568.9	571.5	577.1	589.9	602.7	619.3	634.7	658.6	688.0	724.7	769.2
27.5°	547.9	550.3	555.0	564.2	576.1	589.6	606.3	626.6	656.6	696.4	743.6
30°	535.2	535.7	540.0	548.5	558.7	569.8	585.1	608.2	636.4	676.9	726.4
32.5°	524.3	522.7	525.6	532.1	542.0	553.1	565.7	588.4	615.6	655.4	706.3
35°	505.8	504.9	503.7	509.2	517.7	526.3	537.4	554.5	585.1	622.3	675.6
37.5°	486.9	484.9	482.6	485.1	491.8	500.7	510.3	525.5	552.0	592.9	643.9
40°	473.0	471.2	469.9	469.0	475.1	483.6	490.8	505.3	530.1	568.9	619.3
42.5°	457.5	456.6	454.9	453.7	458.7	465.1	472.7	485.6	510.3	546.7	594.4
45°	432.8	431.9	431.1	430.2	433.3	439.2	445.2	454.5	475.9	511.4	554.5
47.5°	405.2	404.1	404.5	403.1	406.0	410.0	414.2	424.3	444.7	473.4	504.8
50°	385.4	385.0	385.0	385.0	385.9	390.5	394.4	402.1	420.9	449.5	472.1
52.5°	366.6	364.8	364.8	365.5	367.0	370.1	372.5	380.9	397.3	420.8	441.3
55°	337.2	333.8	332.9	333.8	335.1	337.6	340.1	347.0	361.1	378.6	390.5
57.5°	304.6	302.7	301.6	301.7	302.5	304.5	306.5	313.9	325.0	334.1	341.8
60°	281.7	282.6	278.8	279.6	279.6	281.3	284.3	288.9	298.3	304.8	312.4
62.5°	260.2	259.0	257.9	256.7	256.7	257.4	261.4	265.1	273.0	276.4	282.4
65°	226.7	226.7	224.0	224.9	225.3	222.4	224.5	228.8	233.9	235.2	240.8
67.5°	192.7	191.5	190.0	188.7	188.7	188.5	189.6	191.8	195.6	196.0	200.2
70°	169.4	168.6	168.2	166.9	165.2	167.3	166.0	168.2	170.3	170.7	173.3
72.5°	146.9	146.0	145.3	144.0	143.3	143.1	143.2	145.6	147.1	146.5	149.4
75°	114.8	114.0	113.1	111.0	111.0	109.7	110.1	111.9	113.6	112.3	114.8
77.5°	84.3	81.7	81.5	82.1	80.6	81.0	80.4	80.1	81.0	81.0	83.3
80°	64.9	61.9	62.8	62.3	61.9	61.5	60.6	61.1	61.5	61.9	63.2
82.5°	46.8	46.6	45.7	45.6	45.2	44.0	43.5	44.3	44.8	44.5	45.4
85°	23.9	22.6	23.5	23.1	23.5	23.1	21.8	21.8	22.6	22.2	23.1
87.5°	11.3	11.1	10.3	10.1	9.3	9.2	8.5	8.4	8.4	8.1	8.4
90°	20.2	19.6	17.2	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8
92.5°	22.0	20.9	19.1	17.3	15.5	13.8	13.1	13.6	14.1	14.6	15.2
95°	26.5	25.2	23.2	21.3	19.2	17.3	20.0	27.4	34.8	42.2	49.7
97.5°	27.6	26.2	39.2	52.3	65.3	78.3	86.4	89.8	93.1	96.4	99.8
100°	28.3	26.8	55.0	83.2	111.5	139.7	152.0	148.4	144.8	141.1	137.5
102.5°	49.1	53.6	84.4	115.2	146.0	176.8	190.9	188.3	185.7	183.1	180.5
105°	146.2	178.2	194.5	210.8	227.1	243.3	250.5	248.5	246.5	244.5	242.5
107.5°	303.2	326.7	324.1	321.6	318.9	316.4	314.3	312.7	311.1	309.6	307.9
110°	361.0	367.0	365.0	363.1	361.0	359.1	357.3	355.9	354.4	353.0	351.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	408.1	408.1	406.0	404.1	402.1	400.1	398.4	397.1	395.8	394.5	393.2
115°	469.0	467.1	465.5	463.8	462.2	460.6	459.3	458.2	457.1	456.0	454.9
117.5°	525.9	524.4	523.6	522.8	521.9	521.1	520.0	518.7	517.3	516.0	514.6
120°	563.0	561.5	561.0	560.4	559.9	559.4	558.2	556.6	555.0	553.3	551.7
122.5°	599.7	598.6	597.9	597.3	596.6	595.9	594.8	593.5	592.2	590.8	589.5
125°	651.4	651.0	650.3	649.5	648.9	648.2	647.0	645.6	644.2	642.7	641.2
127.5°	702.4	701.8	700.9	700.1	699.2	698.3	697.2	695.7	694.3	692.8	691.4
130°	733.1	732.4	731.6	731.0	730.3	729.5	728.5	727.0	725.5	724.1	722.7
132.5°	762.5	761.7	761.2	760.5	759.9	759.4	758.4	756.9	755.5	754.1	752.6
135°	807.0	806.5	805.8	805.0	804.3	803.6	802.7	801.6	800.5	799.4	798.3
137.5°	846.2	845.4	845.0	844.6	844.2	843.8	842.9	841.6	840.2	838.8	837.4
140°	871.5	870.7	870.3	869.7	869.1	868.6	867.8	866.7	865.6	864.5	863.4
142.5°	895.4	894.9	894.3	893.7	893.2	892.7	891.9	890.8	889.7	888.6	887.5
145°	928.9	928.5	928.1	927.8	927.5	927.1	926.3	925.0	923.7	922.5	921.2
147.5°	958.7	958.3	958.0	957.6	957.2	956.8	956.3	955.4	954.6	953.8	952.9
150°	976.9	976.6	976.2	975.8	975.4	975.1	974.6	974.1	973.5	973.1	972.5
152.5°	992.8	992.1	992.0	991.7	991.5	991.3	991.1	990.8	990.6	990.3	990.0
155°	1014.9	1014.0	1013.8	1013.6	1013.4	1013.3	1013.3	1013.7	1014.1	1014.4	1014.8
157.5°	1034.1	1033.0	1033.2	1033.4	1033.6	1033.7	1033.9	1033.9	1034.0	1034.0	1034.0
160°	1045.2	1044.1	1044.2	1044.5	1044.6	1044.8	1045.0	1045.2	1045.4	1045.5	1045.7
162.5°	1055.1	1053.9	1054.0	1054.2	1054.4	1054.6	1054.9	1055.4	1055.8	1056.3	1056.8
165°	1068.3	1066.9	1067.1	1067.2	1067.4	1067.6	1068.0	1068.5	1069.0	1069.6	1070.2
167.5°	1078.7	1077.3	1077.3	1077.3	1077.3	1077.3	1077.7	1078.4	1079.1	1079.9	1080.5
170°	1084.6	1083.1	1083.1	1083.1	1083.1	1083.1	1083.5	1084.3	1085.0	1085.7	1086.4
172.5°	1088.5	1087.0	1086.9	1086.8	1086.6	1086.5	1086.9	1087.7	1088.6	1089.5	1090.3
175°	1093.4	1092.1	1091.9	1091.8	1091.5	1091.4	1091.8	1092.7	1093.6	1094.5	1095.4
177.5°	1095.2	1094.1	1093.9	1093.8	1093.6	1093.5	1093.8	1094.5	1095.2	1095.9	1096.7
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	886.4	888.1	894.0	898.1	902.8	905.6	908.2	910.4	913.1	913.7	923.7
5°	890.4	898.9	913.9	925.0	938.6	953.5	963.8	968.5	980.8	991.1	1011.5
7.5°	889.2	907.4	929.9	953.3	978.4	1001.7	1021.8	1045.7	1062.7	1088.3	1113.4
10°	888.2	912.6	941.6	971.4	1006.5	1038.9	1067.9	1100.3	1127.2	1162.7	1192.9
12.5°	885.2	914.6	954.9	990.3	1032.7	1077.5	1120.5	1162.1	1185.9	1245.0	1272.8
15°	877.6	912.6	963.0	1016.7	1075.1	1128.1	1182.8	1226.3	1296.7	1348.3	1381.2
17.5°	863.1	912.1	971.8	1036.7	1107.7	1177.5	1239.4	1305.5	1380.1	1442.7	1509.3
20°	856.2	910.0	976.6	1048.3	1122.1	1201.1	1271.5	1350.9	1432.4	1493.9	1579.2
22.5°	843.6	904.5	976.2	1056.1	1135.1	1216.8	1299.2	1379.2	1473.4	1558.1	1639.3
25°	822.9	891.2	965.5	1054.7	1147.3	1229.2	1327.9	1434.1	1532.3	1641.1	1722.2
27.5°	801.2	874.2	948.6	1031.5	1131.1	1228.4	1352.4	1472.5	1592.6	1686.5	1746.5
30°	784.5	855.3	932.2	1015.9	1114.4	1230.1	1368.8	1499.8	1616.8	1697.5	1731.2
32.5°	766.4	838.3	906.2	994.0	1099.1	1229.1	1379.1	1515.9	1618.2	1671.9	1665.3
35°	738.0	798.2	864.3	948.8	1072.6	1221.6	1385.0	1517.4	1580.1	1568.6	1481.5
37.5°	697.0	747.6	812.8	905.3	1041.9	1205.7	1373.1	1472.3	1468.3	1374.4	1248.3
40°	671.4	714.5	777.2	874.6	1018.0	1195.6	1354.3	1418.8	1364.2	1233.1	1082.0
42.5°	638.0	677.6	740.4	840.4	991.6	1174.7	1318.4	1337.2	1230.3	1079.5	940.9
45°	586.0	621.0	685.9	789.2	952.3	1129.4	1230.9	1185.3	1041.5	885.7	780.2
47.5°	530.3	566.6	629.1	735.2	895.2	1061.2	1109.5	1012.4	864.7	738.4	641.6
50°	495.1	530.1	591.2	698.3	856.6	1005.2	1025.2	899.8	764.0	653.1	573.6
52.5°	459.6	492.5	552.5	660.1	811.5	940.3	927.9	800.1	675.2	580.7	518.4
55°	406.8	437.9	495.1	595.8	733.7	835.7	790.9	668.9	565.6	492.1	444.7
57.5°	359.5	389.4	438.7	529.7	649.5	719.7	662.6	559.7	477.6	421.1	385.8
60°	327.3	353.8	400.8	485.3	589.5	642.8	586.4	495.5	426.4	381.2	349.6
62.5°	297.0	320.0	363.5	440.3	530.7	575.5	518.5	441.6	382.7	342.6	315.8
65°	250.9	271.9	310.3	370.1	444.3	474.2	425.1	362.8	317.2	287.2	269.3
67.5°	209.0	226.7	259.9	307.0	361.6	383.4	346.0	297.7	263.3	239.4	225.1
70°	181.0	196.3	222.4	262.9	312.4	329.1	294.1	254.4	229.2	210.0	196.7
72.5°	157.4	168.7	192.3	223.6	265.0	278.2	253.8	218.9	195.4	181.0	170.5
75°	119.9	129.3	144.7	169.9	198.4	206.2	187.8	166.0	150.3	140.0	131.9
77.5°	86.5	93.4	104.5	120.0	139.8	146.8	135.1	120.6	109.1	102.2	97.7
80°	65.3	70.8	80.2	93.0	105.0	108.8	102.0	90.9	82.8	79.0	75.1
82.5°	48.3	51.4	57.0	65.7	73.9	78.4	72.6	66.0	61.6	58.1	56.7
85°	24.3	26.0	28.6	32.0	37.1	38.8	36.7	35.0	32.4	30.3	30.3
87.5°	9.4	9.8	11.2	12.2	13.9	15.5	15.6	15.4	15.5	15.3	15.1
90°	2.6	4.4	6.3	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0
92.5°	14.6	14.1	13.6	13.1	13.8	15.5	17.3	19.1	20.9	22.0	23.2
95°	42.2	34.8	27.4	20.0	17.3	19.2	21.3	23.2	25.2	26.5	27.7
97.5°	96.4	93.1	89.8	86.4	78.3	65.3	52.3	39.2	26.2	27.6	29.1
100°	141.1	144.8	148.4	152.0	139.7	111.5	83.2	55.0	26.8	28.3	29.8
102.5°	183.1	185.7	188.3	190.9	176.8	146.0	115.2	84.4	53.6	49.1	44.6
105°	244.5	246.5	248.5	250.5	243.3	227.1	210.8	194.5	178.2	146.2	114.2
107.5°	309.6	311.1	312.7	314.3	316.4	318.9	321.6	324.1	326.7	303.2	279.7
110°	353.0	354.4	355.9	357.3	359.1	361.0	363.1	365.0	367.0	361.0	355.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	394.5	395.8	397.1	398.4	400.1	402.1	404.1	406.0	408.1	408.1	408.2
115°	456.0	457.1	458.2	459.3	460.6	462.2	463.8	465.5	467.1	469.0	470.8
117.5°	516.0	517.3	518.7	520.0	521.1	521.9	522.8	523.6	524.4	525.9	527.3
120°	553.3	555.0	556.6	558.2	559.4	559.9	560.4	561.0	561.5	563.0	564.4
122.5°	590.8	592.2	593.5	594.8	595.9	596.6	597.3	597.9	598.6	599.7	600.6
125°	642.7	644.2	645.6	647.0	648.2	648.9	649.5	650.3	651.0	651.4	651.8
127.5°	692.8	694.3	695.7	697.2	698.3	699.2	700.1	700.9	701.8	702.4	703.0
130°	724.1	725.5	727.0	728.5	729.5	730.3	731.0	731.6	732.4	733.1	733.9
132.5°	754.1	755.5	756.9	758.4	759.4	759.9	760.5	761.2	761.7	762.5	763.1
135°	799.4	800.5	801.6	802.7	803.6	804.3	805.0	805.8	806.5	807.0	807.6
137.5°	838.8	840.2	841.6	842.9	843.8	844.2	844.6	845.0	845.4	846.2	847.1
140°	864.5	865.6	866.7	867.8	868.6	869.1	869.7	870.3	870.7	871.5	872.2
142.5°	888.6	889.7	890.8	891.9	892.7	893.2	893.7	894.3	894.9	895.4	896.0
145°	922.5	923.7	925.0	926.3	927.1	927.5	927.8	928.1	928.5	928.9	929.3
147.5°	953.8	954.6	955.4	956.3	956.8	957.2	957.6	958.0	958.3	958.7	959.0
150°	973.1	973.5	974.1	974.6	975.1	975.4	975.8	976.2	976.6	976.9	977.3
152.5°	990.3	990.6	990.8	991.1	991.3	991.5	991.7	992.0	992.1	992.8	993.4
155°	1014.4	1014.1	1013.7	1013.3	1013.3	1013.4	1013.6	1013.8	1014.0	1014.9	1015.8
157.5°	1034.0	1034.0	1033.9	1033.9	1033.7	1033.6	1033.4	1033.2	1033.0	1034.1	1035.2
160°	1045.5	1045.4	1045.2	1045.0	1044.8	1044.6	1044.5	1044.2	1044.1	1045.2	1046.3
162.5°	1056.3	1055.8	1055.4	1054.9	1054.6	1054.4	1054.2	1054.0	1053.9	1055.1	1056.3
165°	1069.6	1069.0	1068.5	1068.0	1067.6	1067.4	1067.2	1067.1	1066.9	1068.3	1069.8
167.5°	1079.9	1079.1	1078.4	1077.7	1077.3	1077.3	1077.3	1077.3	1077.3	1078.7	1080.2
170°	1085.7	1085.0	1084.3	1083.5	1083.1	1083.1	1083.1	1083.1	1083.1	1084.6	1086.1
172.5°	1089.5	1088.6	1087.7	1086.9	1086.5	1086.6	1086.8	1086.9	1087.0	1088.5	1090.0
175°	1094.5	1093.6	1092.7	1091.8	1091.4	1091.5	1091.8	1091.9	1092.1	1093.4	1094.6
177.5°	1095.9	1095.2	1094.5	1093.8	1093.5	1093.6	1093.8	1093.9	1094.1	1095.2	1096.3
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	927.1	927.4	931.2	933.9	932.5	934.3	934.9
5°	1012.8	1028.3	1036.3	1042.3	1042.8	1043.2	1046.6
7.5°	1134.5	1151.0	1163.0	1181.3	1186.7	1192.9	1191.2
10°	1223.3	1247.6	1268.5	1279.6	1291.6	1309.0	1295.0
12.5°	1306.3	1349.4	1381.2	1398.5	1409.7	1413.2	1406.3
15°	1443.1	1499.4	1529.7	1528.8	1567.3	1584.0	1557.9
17.5°	1568.6	1620.6	1662.2	1683.6	1715.6	1722.6	1719.4
20°	1645.4	1702.2	1734.6	1771.3	1788.0	1802.9	1805.5
22.5°	1711.6	1762.6	1797.4	1828.0	1841.9	1849.0	1853.3
25°	1779.9	1820.0	1840.9	1851.5	1855.4	1854.6	1849.0
27.5°	1775.2	1778.2	1755.2	1732.6	1712.4	1689.5	1681.7
30°	1729.1	1693.2	1629.2	1592.9	1539.5	1497.3	1514.3
32.5°	1607.9	1536.5	1464.6	1385.3	1319.6	1301.0	1282.1
35°	1372.2	1246.8	1173.4	1087.9	1053.9	1019.7	996.2
37.5°	1110.2	1013.1	926.0	870.2	836.0	814.4	802.7
40°	959.9	872.5	800.7	755.5	729.4	705.2	701.7
42.5°	840.1	758.7	704.7	668.7	643.8	633.4	625.9
45°	688.0	631.3	595.0	569.4	552.8	546.3	537.8
47.5°	582.4	542.3	515.0	497.6	485.0	480.3	479.6
50°	523.3	490.0	469.9	456.2	446.5	444.7	437.9
52.5°	478.9	450.0	434.4	422.5	415.4	410.6	408.5
55°	415.7	396.5	382.5	375.6	370.1	365.3	365.3
57.5°	363.7	347.7	338.3	332.6	330.8	327.5	325.4
60°	331.7	318.0	310.7	305.6	302.2	302.6	298.8
62.5°	300.2	291.4	284.5	279.3	275.2	275.3	275.6
65°	255.7	248.8	243.7	242.0	239.5	236.4	237.3
67.5°	216.6	210.3	206.3	203.3	202.5	200.9	203.3
70°	188.7	183.9	181.0	178.4	177.6	178.0	180.1
72.5°	163.1	159.7	157.8	156.5	154.7	154.7	156.2
75°	128.1	125.5	123.8	122.5	122.1	122.1	122.1
77.5°	94.1	93.5	92.7	90.8	90.9	91.4	91.5
80°	74.3	73.0	72.6	71.7	70.4	69.5	71.7
82.5°	55.5	54.2	53.8	53.6	51.6	51.4	53.2
85°	29.8	28.6	29.0	28.6	28.6	28.2	28.2
87.5°	14.9	14.8	14.5	14.9	14.7	14.3	15.2
90°	21.7	22.4	23.0	23.3	23.7	24.1	24.4
92.5°	24.3	25.4	26.2	26.3	26.6	26.8	27.0
95°	29.0	30.3	30.9	30.9	30.9	30.9	30.9
97.5°	30.6	32.0	32.8	33.0	33.2	33.3	33.5
100°	31.2	32.6	33.4	33.7	33.8	34.0	34.2
102.5°	40.1	35.6	33.5	33.8	34.2	34.5	34.8
105°	82.2	50.2	34.3	34.7	35.1	35.5	35.8
107.5°	256.2	232.8	209.0	184.8	160.7	136.6	112.4
110°	349.1	343.2	327.3	301.3	275.5	249.6	223.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	408.4	408.5	405.8	400.3	394.8	389.4	383.9
115°	472.5	474.3	475.6	476.3	477.0	477.8	478.5
117.5°	528.7	530.2	531.0	531.2	531.2	531.4	531.6
120°	565.8	567.3	568.0	568.0	568.0	568.0	568.0
122.5°	601.7	602.7	603.2	603.4	603.6	603.6	603.8
125°	652.1	652.5	652.8	653.2	653.5	654.0	654.3
127.5°	703.5	704.1	704.3	703.8	703.5	703.1	702.8
130°	734.6	735.3	735.5	735.2	734.7	734.4	734.0
132.5°	763.9	764.6	764.7	764.2	763.7	763.2	762.7
135°	808.1	808.6	808.6	808.1	807.6	807.0	806.5
137.5°	848.0	848.8	849.1	848.7	848.4	848.0	847.7
140°	872.9	873.7	873.8	873.4	873.1	872.8	872.4
142.5°	896.6	897.2	897.2	896.7	896.2	895.7	895.2
145°	929.6	930.0	930.2	930.2	930.2	930.2	930.2
147.5°	959.4	959.8	959.5	958.7	957.9	957.0	956.2
150°	977.6	978.0	977.9	977.4	976.8	976.2	975.8
152.5°	994.1	994.7	994.7	993.8	993.0	992.2	991.3
155°	1016.7	1017.6	1017.5	1016.4	1015.4	1014.2	1013.2
157.5°	1036.2	1037.4	1037.2	1035.8	1034.4	1033.0	1031.6
160°	1047.3	1048.4	1048.3	1047.1	1045.8	1044.6	1043.3
162.5°	1057.5	1058.7	1058.8	1057.7	1056.5	1055.5	1054.3
165°	1071.2	1072.7	1072.8	1071.5	1070.2	1068.9	1067.7
167.5°	1081.7	1083.0	1083.0	1081.7	1080.2	1078.7	1077.3
170°	1087.5	1088.9	1088.9	1087.5	1086.1	1084.6	1083.1
172.5°	1091.4	1092.8	1092.7	1091.2	1089.6	1088.0	1086.4
175°	1095.9	1097.1	1097.1	1095.6	1094.2	1092.7	1091.3
177.5°	1097.6	1098.7	1098.5	1097.1	1095.7	1094.2	1092.7
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4

(END OF REPORT)