

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: P331992-927

Luminaire Tested: **S123DIP-S775D1195U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331992-927
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: S123DIP-S775D1195U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5833.4 lumens
Efficiency: N/A
Efficacy: 102.5 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

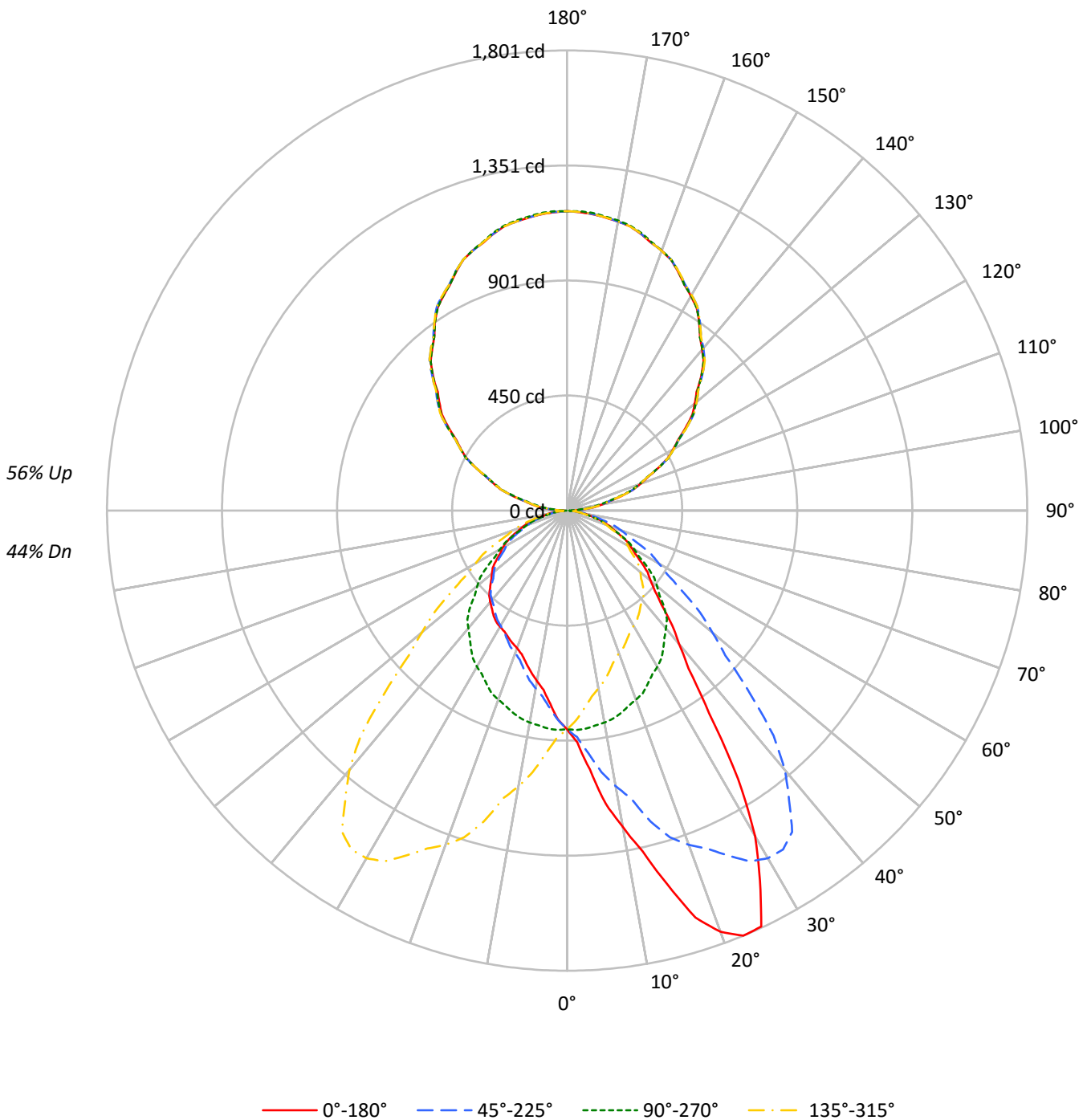
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	23	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°	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	1.4
10°-20°	270.4	4.6
20°-30°	453.8	7.8
30°-40°	513.8	8.8
40°-50°	460.8	7.9
50°-60°	371.8	6.4
60°-70°	259.1	4.4
70°-80°	136.2	2.3
80°-90°	36.8	0.6
90°-100°	76.3	1.3
100°-110°	228.5	3.9
110°-120°	388.6	6.7
120°-130°	511.1	8.8
130°-140°	574.5	9.8
140°-150°	564.7	9.7
150°-160°	475.4	8.1
160°-170°	316.5	5.4
170°-180°	110.8	1.9
0°-30°	808.5	13.9
0°-40°	1322.3	22.7
0°-60°	2154.9	36.9
0°-90°	2587.0	44.3
90°-120°	693.4	11.9
90°-150°	2343.7	40.2
90°-180°	3246.0	55.6
0°-180°	5833.4	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°	28	1	28	1	28	15
95°	72	54	72	54	72	74
105°	219	207	219	207	219	232
115°	392	391	392	391	392	388
125°	566	572	566	572	566	506
135°	742	743	742	743	742	570
145°	901	901	901	901	901	562
155°	1030	1032	1030	1032	1030	474
165°	1120	1124	1120	1124	1120	316
175°	1164	1169	1164	1169	1164	111
180°	1172	1172	1172	1172	1172	



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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°	15.4	14.7	15.0	15.2	14.8	15.1	15.2	15.4	15.5	15.7	15.5
90°	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8	22.9	22.1	19.4
92.5°	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7	36.0	35.3	33.8
95°	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7	68.9	68.1	66.5
97.5°	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4	107.5	106.5	105.4
100°	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5	135.9	135.3	134.3
102.5°	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9	168.3	167.7	166.4
105°	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2	217.2	217.2	215.4
107.5°	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5	268.9	268.2	267.4
110°	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4	303.6	302.9	302.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4	338.4	337.4	337.3
115°	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5	392.3	392.1	392.5
117.5°	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2	446.2	446.2	446.8
120°	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9	482.1	482.3	483.3
122.5°	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1	518.6	519.1	519.7
125°	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8	572.6	573.5	573.9
127.5°	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9	626.1	627.2	627.6
130°	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1	661.0	661.8	662.4
132.5°	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4	695.4	696.4	696.8
135°	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8	746.6	747.3	747.6
137.5°	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9	796.8	797.6	797.1
140°	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9	829.1	829.3	829.1
142.5°	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8	860.0	860.2	859.8
145°	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3	905.5	905.7	905.1
147.5°	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7	974.7	974.7	974.3
152.5°	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9	998.6	998.3	998.1
155°	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4	1033.6	1032.7	1032.5
157.5°	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8	1064.0	1063.1	1063.0
160°	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5	1082.5	1081.5	1081.5
162.5°	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2	1100.2	1099.2	1099.0
165°	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6	1122.3	1121.1	1121.1
167.5°	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1	1138.9
170°	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7	1148.7
172.5°	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4	1158.1	1156.8	1156.8
175°	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7	1166.5	1165.2	1165.2
177.5°	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5	1170.4	1169.5	1169.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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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°	15.6	15.4	13.9	12.1	11.0	9.7	9.2	8.2	7.9	8.3	8.4
90°	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0	2.9	5.0	7.1
92.5°	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3	23.7	25.0	26.5
95°	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3	55.8	57.2	58.6
97.5°	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5	97.5	98.6	99.7
100°	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2	126.4	127.6	128.9
102.5°	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3	159.1	159.8	160.5
105°	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1	207.5	207.9	208.3
107.5°	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8	264.0	264.3	264.5
110°	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1	299.5	299.9	300.4



TEST NUMBER: P331992-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0	336.2	336.4	336.7
115°	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2	391.8	392.4	393.0
117.5°	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8	447.2	447.6	448.0
120°	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4	482.6	483.9	485.1
122.5°	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5	518.3	519.3	520.1
125°	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5	573.1	573.7	574.3
127.5°	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3	624.6	625.9	627.2
130°	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2	658.8	660.4	662.1
132.5°	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0	692.7	694.3	695.9
135°	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8	744.0	745.2	746.5
137.5°	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7	791.6	792.7	793.7
140°	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8	824.8	825.9	826.9
142.5°	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0	855.0	856.0	857.1
145°	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1	901.5	901.9	902.3
147.5°	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3	943.1	943.8	944.5
150°	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1	971.5	971.8	972.2
152.5°	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6	995.2	995.8	996.3
155°	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4	1063.2	1063.0	1062.7
160°	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3	1082.9	1082.5	1082.1
162.5°	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0	1100.4	1099.9	1099.3
165°	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9	1123.2	1122.6	1122.0
167.5°	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1	1141.2	1140.4	1139.6
170°	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4	1151.5	1150.7	1149.9
172.5°	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5	1159.7	1158.8	1158.0
175°	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9	1168.2	1167.3	1166.5
177.5°	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4	1171.8	1171.2	1170.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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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°	8.5	9.3	9.4	10.3	10.5	11.4	11.6	11.0	11.2	12.4	11.2
90°	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8	24.6	25.3	26.0
92.5°	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7	37.3	37.9	38.2
95°	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7	70.6	71.4	71.8
97.5°	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4	109.4	110.4	110.7
100°	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5	137.1	137.8	138.2
102.5°	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9	169.5	170.2	170.4
105°	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2	217.2	217.2	217.5
107.5°	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5	270.2	270.8	271.0
110°	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4	305.3	306.1	306.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4	340.4	341.4	341.8
115°	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5	392.7	392.9	392.9
117.5°	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2	446.1	446.1	445.8
120°	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9	481.7	481.5	481.2
122.5°	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1	517.5	517.0	516.4
125°	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8	571.0	570.1	569.3
127.5°	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9	623.8	622.6	621.5
130°	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1	659.3	658.5	657.4
132.5°	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4	693.5	692.4	691.4
135°	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8	744.9	744.1	743.5
137.5°	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9	795.0	794.2	793.4
140°	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9	828.7	828.5	827.7
142.5°	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8	859.6	859.4	858.7
145°	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3	905.1	904.9	904.4
147.5°	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7	974.7	974.7	974.1
152.5°	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9	999.3	999.6	999.3
155°	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4	1035.1	1036.0	1035.7
157.5°	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8	1065.6	1066.5	1066.4
160°	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5	1084.6	1085.6	1085.7
162.5°	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2	1102.2	1103.3	1103.1
165°	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6	1124.7	1126.0	1125.8
167.5°	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1
170°	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4
172.5°	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4	1160.6	1161.9	1161.8
175°	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7	1168.9	1170.1	1170.1
177.5°	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5	1172.4	1173.4	1173.3
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331992-927

CATALOG NUMBER: S123DIP-S775D1195U927-4F0-1E-UDD-A1

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°	11.2	11.3	11.1	10.9	11.1	11.3	11.2	11.2	12.4	11.2	11.0
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8
92.5°	37.9	37.7	37.4	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7
95°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7
97.5°	110.7	110.6	110.5	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4
100°	138.7	139.1	139.5	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5
102.5°	170.3	170.2	170.2	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9
105°	217.9	218.2	218.6	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2
107.5°	270.8	270.5	270.3	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5
110°	305.9	305.5	305.1	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	341.7	341.7	341.6	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4
115°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5
117.5°	445.2	444.6	444.0	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2
120°	480.8	480.4	480.0	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9
122.5°	515.9	515.3	514.7	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1
125°	568.5	567.7	566.9	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8
127.5°	620.6	619.6	618.7	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9
130°	655.9	654.5	653.1	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1
132.5°	690.3	689.2	688.1	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4
135°	743.1	742.7	742.3	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8
137.5°	792.6	791.9	791.1	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9
140°	826.2	824.8	823.4	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9
142.5°	857.6	856.5	855.5	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8
145°	903.6	902.7	901.9	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3
147.5°	946.3	945.2	943.9	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2
150°	972.9	971.7	970.4	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7
152.5°	998.1	997.1	996.0	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9
155°	1034.3	1032.8	1031.4	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4
157.5°	1065.2	1064.1	1063.0	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8
160°	1084.9	1084.0	1083.2	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5
162.5°	1101.8	1100.5	1099.2	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2
165°	1124.4	1123.0	1121.6	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6
167.5°	1142.9	1141.6	1140.3	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6
170°	1153.0	1151.5	1150.1	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5
172.5°	1160.3	1158.9	1157.5	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4
175°	1168.6	1167.2	1165.8	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7
177.5°	1172.2	1171.0	1169.9	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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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°	11.6	11.4	10.5	10.3	9.4	9.3	8.5	8.4	8.3	7.9	8.2
90°	22.9	22.1	19.4	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0
92.5°	36.0	35.3	33.8	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3
95°	68.9	68.1	66.5	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3
97.5°	107.5	106.5	105.4	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5
100°	135.9	135.3	134.3	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2
102.5°	168.3	167.7	166.4	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3
105°	217.2	217.2	215.4	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1
107.5°	268.9	268.2	267.4	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8
110°	303.6	302.9	302.4	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	338.4	337.4	337.3	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0
115°	392.3	392.1	392.5	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2
117.5°	446.2	446.2	446.8	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8
120°	482.1	482.3	483.3	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4
122.5°	518.6	519.1	519.7	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5
125°	572.6	573.5	573.9	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5
127.5°	626.1	627.2	627.6	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3
130°	661.0	661.8	662.4	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2
132.5°	695.4	696.4	696.8	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0
135°	746.6	747.3	747.6	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8
137.5°	796.8	797.6	797.1	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7
140°	829.1	829.3	829.1	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8
142.5°	860.0	860.2	859.8	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0
145°	905.5	905.7	905.1	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1
147.5°	948.2	948.2	947.6	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3
150°	974.7	974.7	974.3	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1
152.5°	998.6	998.3	998.1	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6
155°	1033.6	1032.7	1032.5	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1064.0	1063.1	1063.0	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4
160°	1082.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3
162.5°	1100.2	1099.2	1099.0	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0
165°	1122.3	1121.1	1121.1	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9
167.5°	1140.3	1139.1	1138.9	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1
170°	1150.1	1148.7	1148.7	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4
172.5°	1158.1	1156.8	1156.8	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5
175°	1166.5	1165.2	1165.2	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9
177.5°	1170.4	1169.5	1169.5	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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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°	9.2	9.7	11.0	12.1	13.9	15.4	15.6	15.5	15.7	15.5	15.4
90°	2.9	5.0	7.1	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8
92.5°	23.7	25.0	26.5	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7
95°	55.8	57.2	58.6	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7
97.5°	97.5	98.6	99.7	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4
100°	126.4	127.6	128.9	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5
102.5°	159.1	159.8	160.5	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9
105°	207.5	207.9	208.3	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2
107.5°	264.0	264.3	264.5	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5
110°	299.5	299.9	300.4	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	336.2	336.4	336.7	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4
115°	391.8	392.4	393.0	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5
117.5°	447.2	447.6	448.0	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2
120°	482.6	483.9	485.1	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9
122.5°	518.3	519.3	520.1	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1
125°	573.1	573.7	574.3	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8
127.5°	624.6	625.9	627.2	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9
130°	658.8	660.4	662.1	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1
132.5°	692.7	694.3	695.9	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4
135°	744.0	745.2	746.5	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8
137.5°	791.6	792.7	793.7	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9
140°	824.8	825.9	826.9	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9
142.5°	855.0	856.0	857.1	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8
145°	901.5	901.9	902.3	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3
147.5°	943.1	943.8	944.5	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2
150°	971.5	971.8	972.2	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7
152.5°	995.2	995.8	996.3	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9
155°	1031.8	1031.8	1031.8	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4
157.5°	1063.2	1063.0	1062.7	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8
160°	1082.9	1082.5	1082.1	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5
162.5°	1100.4	1099.9	1099.3	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2
165°	1123.2	1122.6	1122.0	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6
167.5°	1141.2	1140.4	1139.6	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6
170°	1151.5	1150.7	1149.9	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5
172.5°	1159.7	1158.8	1158.0	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4
175°	1168.2	1167.3	1166.5	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7
177.5°	1171.8	1171.2	1170.4	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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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°	15.2	15.1	14.8	15.2	15.0	14.7	15.4
90°	24.6	25.3	26.0	26.4	26.8	27.2	27.6
92.5°	37.3	37.9	38.2	37.9	37.7	37.4	37.2
95°	70.6	71.4	71.8	71.8	71.8	71.8	71.8
97.5°	109.4	110.4	110.7	110.7	110.6	110.5	110.4
100°	137.1	137.8	138.2	138.7	139.1	139.5	139.9
102.5°	169.5	170.2	170.4	170.3	170.2	170.2	170.1
105°	217.2	217.2	217.5	217.9	218.2	218.6	219.0
107.5°	270.2	270.8	271.0	270.8	270.5	270.3	270.1
110°	305.3	306.1	306.3	305.9	305.5	305.1	304.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	340.4	341.4	341.8	341.7	341.7	341.6	341.5
115°	392.7	392.9	392.9	392.7	392.5	392.3	392.1
117.5°	446.1	446.1	445.8	445.2	444.6	444.0	443.5
120°	481.7	481.5	481.2	480.8	480.4	480.0	479.5
122.5°	517.5	517.0	516.4	515.9	515.3	514.7	514.1
125°	571.0	570.1	569.3	568.5	567.7	566.9	566.1
127.5°	623.8	622.6	621.5	620.6	619.6	618.7	617.8
130°	659.3	658.5	657.4	655.9	654.5	653.1	651.6
132.5°	693.5	692.4	691.4	690.3	689.2	688.1	687.0
135°	744.9	744.1	743.5	743.1	742.7	742.3	741.9
137.5°	795.0	794.2	793.4	792.6	791.9	791.1	790.3
140°	828.7	828.5	827.7	826.2	824.8	823.4	822.0
142.5°	859.6	859.4	858.7	857.6	856.5	855.5	854.4
145°	905.1	904.9	904.4	903.6	902.7	901.9	901.1
147.5°	948.2	948.2	947.6	946.3	945.2	943.9	942.7
150°	974.7	974.7	974.1	972.9	971.7	970.4	969.2
152.5°	999.3	999.6	999.3	998.1	997.1	996.0	995.0
155°	1035.1	1036.0	1035.7	1034.3	1032.8	1031.4	1029.9
157.5°	1065.6	1066.5	1066.4	1065.2	1064.1	1063.0	1061.8
160°	1084.6	1085.6	1085.7	1084.9	1084.0	1083.2	1082.4
162.5°	1102.2	1103.3	1103.1	1101.8	1100.5	1099.2	1097.9
165°	1124.7	1126.0	1125.8	1124.4	1123.0	1121.6	1120.1
167.5°	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1
170°	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7
172.5°	1160.6	1161.9	1161.8	1160.3	1158.9	1157.5	1156.0
175°	1168.9	1170.1	1170.1	1168.6	1167.2	1165.8	1164.3
177.5°	1172.4	1173.4	1173.3	1172.2	1171.0	1169.9	1168.8
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7

(END OF REPORT)