

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: P331983-830

Luminaire Tested: **S123DIP-S775D1025U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331983-830
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-S775D1025U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6395.9 lumens
Efficiency: N/A
Efficacy: 123.0 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

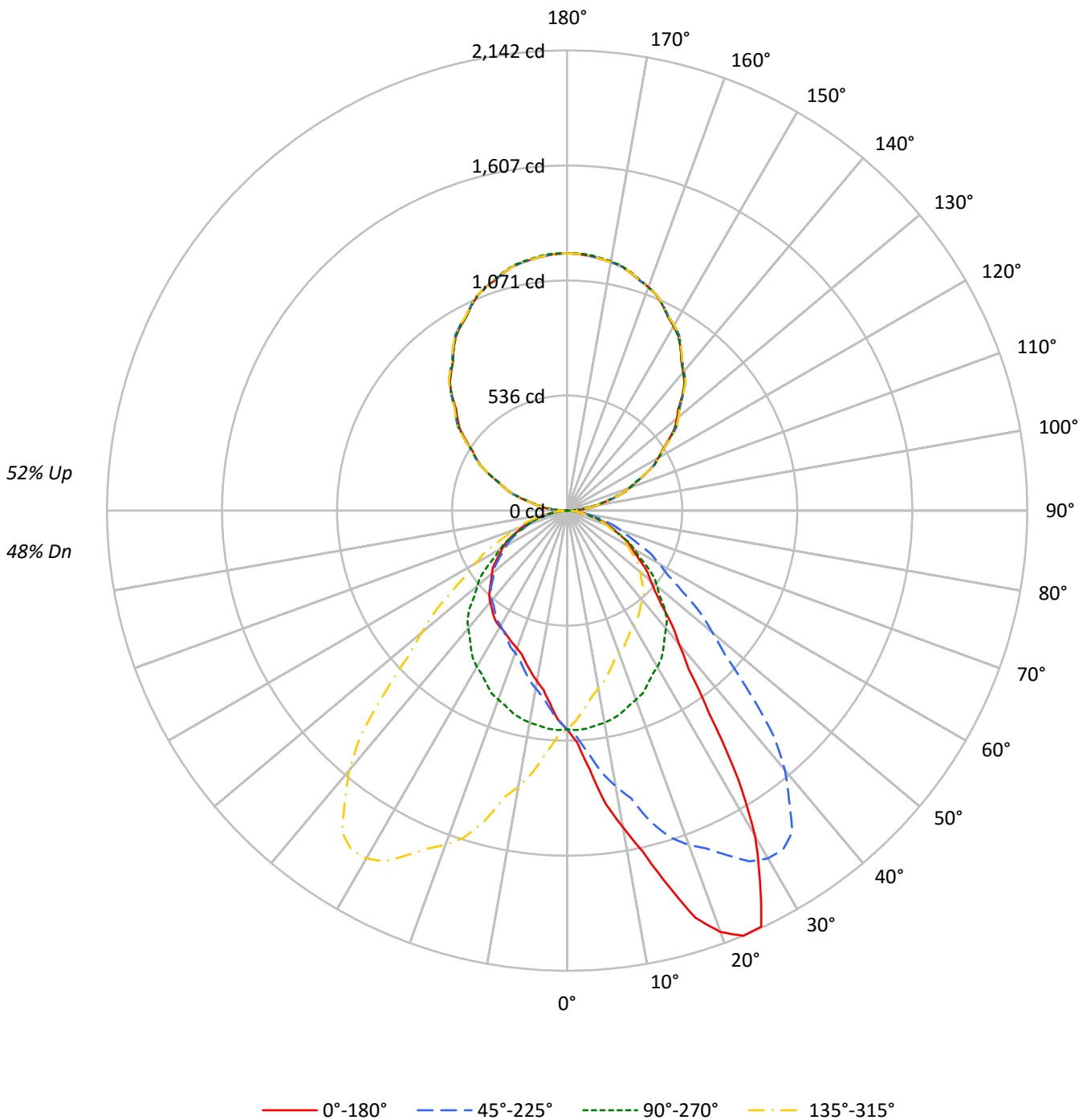
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48	
1	98	93	90	86	90	86	83	80	73	70	68	60	58	57	48	47	46	41	41	41	41	
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35	35	35	35	
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30	30	30	30	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26	26	26	26	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	31	31	28	26	22	22	22	22	
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20	20	20	20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18	18	18	18	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16	16	16	16	
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14	14	14	14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13	13	13	13	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10962	10962	10962	10962
5°	13073	11010	9757	11010
10°	16363	10954	8813	10954
15°	20070	10866	8204	10866
20°	23909	10727	7811	10727
25°	25388	10561	7725	10561
30°	21760	10438	7764	10438
35°	15134	10264	7846	10264
40°	11398	10061	7821	10061
45°	9464	9758	7722	9758
50°	8477	9138	7651	9138
55°	7927	8473	7557	8473
60°	7436	7776	7479	7776
65°	6989	7088	7238	7088
70°	6552	6304	6892	6304
75°	5868	5519	6317	5519
80°	5139	4525	5442	4525
85°	4026	3298	3656	3298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.6
10°-20°	321.7	5.0
20°-30°	539.9	8.4
30°-40°	611.3	9.6
40°-50°	548.2	8.6
50°-60°	442.4	6.9
60°-70°	308.3	4.8
70°-80°	162.0	2.5
80°-90°	43.2	0.7
90°-100°	78.0	1.2
100°-110°	233.5	3.7
110°-120°	397.2	6.2
120°-130°	522.5	8.2
130°-140°	587.2	9.2
140°-150°	577.2	9.0
150°-160°	486.0	7.6
160°-170°	323.5	5.1
170°-180°	113.3	1.8
0°-30°	961.9	15.0
0°-40°	1573.3	24.6
0°-60°	2563.9	40.1
0°-90°	3077.4	48.1
90°-120°	708.8	11.1
90°-150°	2395.7	37.5
90°-180°	3318.0	51.9
0°-180°	6395.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1018	1018	1018	1018	1018	
5°	1210	1019	903	1019	1210	125
15°	1801	975	736	975	1801	520
25°	2138	889	650	889	2138	937
35°	1152	781	597	781	1152	748
45°	622	641	507	641	622	492
55°	422	452	403	452	422	379
65°	274	278	284	278	274	273
75°	141	133	152	133	141	151
85°	33	27	30	27	33	39
90°	28	1	28	1	28	15
95°	73	56	73	56	73	75
105°	224	212	224	212	224	238
115°	401	400	401	400	401	397
125°	579	585	579	585	579	517
135°	758	759	758	759	758	583
145°	921	921	921	921	921	575
155°	1053	1055	1053	1055	1053	485
165°	1145	1149	1145	1149	1145	323
175°	1190	1195	1190	1195	1190	113
180°	1198	1198	1198	1198	1198	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1080.8	1080.1	1078.1	1079.7	1076.5	1072.1	1071.8	1067.8	1056.3	1055.6	1052.4
5°	1209.9	1206.0	1205.5	1204.9	1198.1	1188.7	1170.9	1169.4	1145.8	1133.9	1119.6
7.5°	1377.1	1379.1	1372.0	1365.6	1344.5	1330.6	1311.5	1287.1	1258.1	1228.6	1208.9
10°	1497.1	1513.3	1493.2	1479.3	1466.5	1442.3	1414.2	1379.1	1344.2	1303.2	1272.1
12.5°	1625.8	1633.8	1629.8	1616.7	1596.8	1560.0	1510.1	1471.5	1439.3	1371.0	1343.5
15°	1801.0	1831.2	1811.9	1767.5	1768.5	1733.4	1668.3	1596.8	1558.8	1499.0	1417.7
17.5°	1987.7	1991.5	1983.3	1946.4	1921.7	1873.5	1813.4	1744.8	1667.8	1595.5	1509.2
20°	2087.3	2084.2	2067.0	2047.8	2005.4	1967.8	1902.2	1825.7	1727.0	1656.0	1561.7
22.5°	2142.5	2137.6	2129.4	2113.3	2077.9	2037.7	1978.8	1895.2	1801.3	1703.4	1594.5
25°	2137.6	2144.0	2144.9	2140.5	2128.2	2104.0	2057.7	1991.0	1897.2	1771.4	1657.9
27.5°	1944.2	1953.2	1979.6	2003.0	2029.1	2055.8	2052.2	2019.1	1949.7	1841.2	1702.3
30°	1750.7	1731.0	1779.8	1841.5	1883.5	1957.5	1998.9	2001.4	1962.4	1869.2	1733.9
32.5°	1482.2	1504.0	1525.6	1601.5	1693.2	1776.3	1858.8	1925.2	1932.8	1870.8	1752.5
35°	1151.7	1178.8	1218.3	1257.7	1356.5	1441.3	1586.4	1712.7	1813.4	1826.7	1754.2
37.5°	928.0	941.5	966.5	1006.0	1070.5	1171.2	1283.5	1443.1	1588.9	1697.4	1702.1
40°	811.2	815.2	843.3	873.4	925.7	1008.6	1109.7	1250.8	1425.5	1577.1	1640.2
42.5°	723.6	732.3	744.2	773.1	814.7	877.1	971.2	1087.8	1247.9	1422.3	1545.9
45°	621.7	631.6	639.0	658.3	687.9	729.8	795.4	902.0	1023.9	1204.0	1370.3
47.5°	554.4	555.3	560.7	575.2	595.4	626.9	673.3	741.8	853.7	999.7	1170.4
50°	506.2	514.2	516.1	527.4	543.3	566.5	604.9	663.2	755.0	883.3	1040.2
52.5°	472.3	474.7	480.2	488.4	502.2	520.3	553.6	599.3	671.3	780.6	924.9
55°	422.4	422.4	427.8	434.2	442.1	458.4	480.6	514.2	568.9	653.8	773.3
57.5°	376.2	378.6	382.5	384.5	391.2	402.0	420.5	446.0	486.8	552.1	647.1
60°	345.4	349.9	349.4	353.3	359.2	367.6	383.4	404.2	440.6	492.9	572.9
62.5°	318.6	318.3	318.2	322.9	328.9	336.9	347.0	365.0	396.1	442.4	510.5
65°	274.4	273.3	276.8	279.7	281.7	287.7	295.6	311.3	332.1	366.6	419.4
67.5°	235.1	232.2	234.1	235.1	238.5	243.1	250.4	260.2	276.7	304.4	344.2
70°	208.2	205.8	205.3	206.2	209.2	212.6	218.1	227.4	242.8	264.9	294.1
72.5°	180.6	178.9	178.8	181.0	182.4	184.6	188.5	197.1	209.2	225.9	253.1
75°	141.1	141.1	141.1	141.6	143.1	145.1	148.1	152.5	161.8	173.7	191.9
77.5°	105.8	105.7	105.1	105.0	107.2	108.1	108.8	112.9	118.1	126.1	139.4
80°	82.9	80.4	81.4	82.9	83.9	84.4	85.9	86.8	91.3	95.8	105.1
82.5°	61.5	59.5	59.7	62.0	62.2	62.7	64.2	65.5	67.2	71.3	76.3
85°	32.6	32.6	33.1	33.1	33.6	33.1	34.5	35.1	35.1	37.5	40.4
87.5°	17.5	16.6	17.0	17.2	16.8	17.1	17.2	17.4	17.7	17.9	17.8
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5	36.8	36.1	34.6
95°	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3	70.5	69.7	68.0
97.5°	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8	109.9	109.0	107.7
100°	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6	138.9	138.3	137.2
102.5°	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7	172.0	171.4	170.0
105°	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1	222.1	222.1	220.2
107.5°	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5	274.8	274.2	273.4
110°	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2	310.4	309.5	309.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9	345.9	344.9	344.9
115°	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2	401.1	400.8	401.2
117.5°	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0	456.1	456.1	456.7
120°	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6	492.8	493.0	494.1
122.5°	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5	530.1	530.7	531.2
125°	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5	585.3	586.2	586.5
127.5°	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8	639.9	641.1	641.6
130°	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8	675.6	676.5	677.1
132.5°	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8	710.9	711.8	712.3
135°	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3	763.2	763.9	764.2
137.5°	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6	814.5	815.3	814.8
140°	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3	847.5	847.7	847.5
142.5°	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9	879.1	879.3	878.9
145°	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4	925.6	925.8	925.2
147.5°	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4	996.4	996.4	996.0
152.5°	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2	1020.8	1020.5	1020.2
155°	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3	1056.5	1055.6	1055.5
157.5°	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4	1087.6	1086.7	1086.6
160°	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6	1106.5	1105.5	1105.5
162.5°	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7	1124.6	1123.6	1123.4
165°	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5	1147.2	1145.9	1145.9
167.5°	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4	1164.2
170°	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2	1174.2
172.5°	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1	1183.7	1182.4	1182.4
175°	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6	1192.4	1191.1	1191.1
177.5°	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5	1196.5	1195.4	1195.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1050.0	1046.9	1043.7	1038.2	1033.5	1026.7	1024.7	1022.4	1015.3	1009.0	1004.3
5°	1114.2	1102.3	1085.1	1069.3	1056.5	1039.2	1029.4	1019.0	1004.2	990.8	980.0
7.5°	1181.3	1158.0	1131.1	1102.1	1075.1	1049.0	1028.0	1009.3	988.5	968.9	953.7
10°	1234.5	1201.0	1163.6	1123.0	1088.5	1055.0	1026.8	1002.2	975.5	952.3	933.1
12.5°	1295.3	1245.7	1193.9	1144.8	1103.9	1057.3	1023.3	991.9	961.7	933.8	912.2
15°	1367.3	1304.2	1242.9	1175.4	1113.2	1055.0	1014.6	975.1	940.0	911.3	883.7
17.5°	1432.9	1361.3	1280.6	1198.4	1123.4	1054.4	997.8	953.1	909.3	874.3	846.8
20°	1470.0	1388.6	1297.2	1211.9	1129.0	1052.0	989.9	936.5	889.2	852.2	821.0
22.5°	1501.9	1406.7	1312.2	1221.0	1128.6	1045.7	975.2	920.4	869.0	832.8	799.7
25°	1535.1	1421.1	1326.3	1219.3	1116.2	1030.3	951.3	889.2	837.8	795.4	761.4
27.5°	1563.5	1420.1	1307.7	1192.5	1096.6	1010.6	926.2	859.6	805.1	759.0	724.4
30°	1582.4	1422.1	1288.4	1174.4	1077.7	988.8	906.9	839.8	782.6	735.7	703.1
32.5°	1594.3	1420.9	1270.6	1149.1	1047.6	969.1	886.0	816.5	757.7	711.6	680.2
35°	1601.2	1412.2	1240.0	1096.9	999.2	922.7	853.2	781.1	719.4	676.5	641.0
37.5°	1587.4	1393.9	1204.5	1046.6	939.6	864.3	805.8	744.4	685.4	638.1	607.6
40°	1565.7	1382.1	1176.9	1011.1	898.5	826.0	776.2	716.0	657.7	612.8	584.2
42.5°	1524.2	1358.0	1146.4	971.6	855.9	783.3	737.5	687.2	632.1	589.9	561.4
45°	1423.1	1305.6	1100.9	912.4	793.0	717.9	677.5	641.0	591.2	550.2	525.5
47.5°	1282.7	1226.8	1034.9	849.9	727.3	655.1	613.0	583.6	547.2	514.2	490.5
50°	1185.2	1162.1	990.3	807.3	683.4	612.8	572.4	545.7	519.6	486.5	464.9
52.5°	1072.7	1087.0	938.2	763.1	638.8	569.4	531.3	510.2	486.4	459.3	440.4
55°	914.4	966.1	848.2	688.8	572.4	506.2	470.2	451.5	437.7	417.5	401.1
57.5°	766.0	832.0	750.9	612.4	507.2	450.2	415.6	395.1	386.3	375.7	362.9
60°	678.0	743.1	681.5	561.0	463.4	409.1	378.4	361.2	352.3	344.9	334.0
62.5°	599.5	665.3	613.5	509.0	420.3	369.9	343.4	326.5	319.5	315.7	306.4
65°	491.4	548.2	513.7	427.8	358.7	314.3	290.1	278.3	271.9	270.4	264.5
67.5°	400.0	443.2	418.0	354.9	300.5	262.1	241.6	231.5	226.6	226.1	221.7
70°	340.0	380.4	361.2	304.0	257.1	227.0	209.2	200.3	197.4	196.9	194.4
72.5°	293.4	321.6	306.3	258.5	222.3	195.0	182.0	172.7	169.4	170.0	168.3
75°	217.1	238.4	229.4	196.4	167.3	149.5	138.6	132.7	129.8	131.3	129.3
77.5°	156.2	169.7	161.6	138.7	120.8	107.9	100.0	96.3	93.7	93.6	92.7
80°	117.9	125.8	121.4	107.5	92.7	81.9	75.5	73.0	71.5	71.1	70.6
82.5°	84.0	90.7	85.5	76.0	65.9	59.4	55.8	52.5	51.5	51.7	51.2
85°	42.4	44.9	42.9	37.0	33.1	30.1	28.1	26.7	25.6	26.1	25.2
87.5°	18.0	17.9	16.1	14.1	12.9	11.3	10.8	9.7	9.3	9.7	9.7
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8	24.2	25.6	27.1
95°	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5	56.9	58.4	59.9
97.5°	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6	99.7	100.8	101.9
100°	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0	129.2	130.4	131.7
102.5°	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8	162.6	163.3	164.1
105°	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7	212.1	212.5	212.9
107.5°	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7	269.9	270.1	270.4
110°	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8	306.2	306.6	307.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4	343.7	343.9	344.1
115°	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8	400.5	401.1	401.7
117.5°	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7	457.1	457.5	458.0
120°	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1	493.3	494.6	495.9
122.5°	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0	529.9	530.7	531.7
125°	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2	585.9	586.4	587.1
127.5°	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2	638.5	639.8	641.1
130°	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8	673.4	675.1	676.7
132.5°	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4	708.0	709.7	711.4
135°	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3	760.5	761.8	763.0
137.5°	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2	809.3	810.3	811.3
140°	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1	843.1	844.1	845.2
142.5°	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9	873.9	875.1	876.1
145°	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1	921.5	921.9	922.4
147.5°	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3	964.0	964.8	965.5
150°	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6	993.1	993.4	993.8
152.5°	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7	1017.3	1017.9	1018.4
155°	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0	1086.8	1086.6	1086.3
160°	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4	1106.9	1106.5	1106.2
162.5°	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5	1124.8	1124.3	1123.7
165°	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8	1148.1	1147.5	1146.9
167.5°	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4	1166.6	1165.7	1164.9
170°	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0	1177.1	1176.3	1175.4
172.5°	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2	1185.4	1184.6	1183.7
175°	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9	1194.0	1193.2	1192.4
177.5°	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4	1197.8	1197.1	1196.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1001.5	998.7	994.8	988.8	984.1	976.6	976.6	977.8	977.8	977.4	976.6
5°	971.1	963.7	954.8	944.4	933.6	922.7	920.8	916.8	913.9	911.9	909.4
7.5°	939.1	925.9	912.9	898.4	885.2	874.3	866.7	860.4	856.3	852.0	848.9
10°	917.3	901.0	885.7	870.4	853.7	840.4	832.0	826.0	821.6	817.7	815.7
12.5°	891.6	873.0	856.1	841.6	823.2	809.5	801.5	798.8	793.5	785.2	780.9
15°	854.1	836.9	816.6	794.5	785.5	768.7	759.4	755.0	752.0	745.6	743.6
17.5°	822.1	799.5	776.7	760.2	743.7	730.1	724.8	719.3	715.4	710.1	708.6
20°	796.4	776.2	755.4	737.7	720.4	705.6	701.2	697.2	693.2	690.8	688.8
22.5°	770.3	750.2	732.9	716.3	698.0	688.2	683.4	679.1	676.3	674.7	672.7
25°	733.8	716.0	696.7	681.9	667.1	660.7	657.7	655.3	653.3	650.8	650.4
27.5°	701.0	681.6	666.0	652.2	641.6	636.2	633.4	632.2	632.6	633.5	634.0
30°	676.5	658.7	645.9	634.0	624.2	619.3	618.8	618.8	620.8	621.2	622.3
32.5°	654.0	639.4	626.6	615.1	607.7	604.3	606.1	606.1	607.8	609.0	610.8
35°	621.2	608.4	598.5	588.7	582.3	583.7	584.8	585.7	588.1	591.2	593.1
37.5°	589.9	578.8	568.5	560.8	557.9	560.5	562.9	565.0	567.9	570.1	572.1
40°	567.4	559.0	549.2	542.2	543.3	544.8	546.8	549.2	551.7	553.2	555.2
42.5°	546.5	537.7	530.3	524.5	525.9	527.8	529.0	530.3	533.1	535.7	537.0
45°	514.6	507.7	500.9	497.4	498.4	499.4	500.3	501.8	504.3	506.2	506.8
47.5°	478.8	474.0	469.4	466.0	467.6	467.2	468.4	471.6	472.4	473.6	476.4
50°	455.9	451.5	446.1	445.1	445.1	445.1	445.5	449.5	449.5	451.5	453.5
52.5°	430.6	427.8	424.3	422.5	421.8	421.8	423.9	425.8	426.6	429.4	431.4
55°	393.2	390.3	387.4	385.9	384.8	385.9	389.8	390.8	393.2	394.7	396.2
57.5°	354.3	352.0	349.7	348.8	348.6	350.0	352.1	355.1	355.7	360.2	362.5
60°	328.7	325.2	323.2	323.2	322.3	326.7	325.6	330.6	331.6	334.5	338.0
62.5°	302.2	297.6	296.7	296.7	298.1	299.4	300.8	302.9	305.6	309.2	312.0
65°	259.6	257.1	260.5	260.0	259.0	262.0	262.0	264.5	267.4	270.9	276.4
67.5°	219.1	217.9	218.2	218.2	219.7	221.4	222.7	224.9	228.5	232.1	235.6
70°	191.9	193.4	191.0	192.9	194.4	194.9	195.9	198.9	202.8	205.3	209.2
72.5°	165.5	165.4	165.7	166.5	168.0	168.8	169.8	173.2	177.6	179.6	182.8
75°	127.3	126.8	128.3	128.3	130.7	131.8	132.7	134.2	138.2	141.1	143.5
77.5°	92.9	93.6	93.2	94.9	94.3	94.4	97.5	99.0	99.3	105.2	106.5
80°	70.0	71.1	71.5	72.0	72.6	71.5	75.0	76.4	76.4	79.9	82.4
82.5°	50.3	50.9	52.2	52.7	52.8	53.8	54.1	55.1	56.4	57.9	61.1
85°	25.2	26.7	27.1	26.7	27.1	26.1	27.6	28.1	28.7	28.7	28.7
87.5°	9.8	10.7	10.7	11.7	11.9	12.8	13.0	12.3	12.5	13.9	12.4
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5	38.2	38.8	39.0
95°	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3	72.1	73.0	73.4
97.5°	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8	111.9	112.8	113.2
100°	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6	140.2	140.8	141.4
102.5°	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7	173.3	173.9	174.2
105°	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1	222.1	222.1	222.3
107.5°	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5	276.2	276.8	277.0
110°	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2	312.1	312.9	313.1



TEST NUMBER: P331983-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9	347.9	348.9	349.4
115°	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2	401.4	401.6	401.6
117.5°	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0	456.0	456.0	455.6
120°	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6	492.4	492.2	491.8
122.5°	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5	529.0	528.5	527.9
125°	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5	583.6	582.8	581.9
127.5°	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8	637.6	636.4	635.4
130°	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8	673.9	673.2	671.9
132.5°	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8	708.9	707.8	706.8
135°	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3	761.5	760.6	760.0
137.5°	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6	812.8	811.8	811.0
140°	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3	847.1	846.9	846.0
142.5°	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9	878.7	878.4	877.8
145°	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4	925.2	924.9	924.4
147.5°	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4	996.4	996.4	995.7
152.5°	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2	1021.4	1021.8	1021.4
155°	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3	1058.2	1058.9	1058.7
157.5°	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4	1089.3	1090.2	1090.1
160°	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6	1108.6	1109.7	1109.7
162.5°	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7	1126.7	1127.8	1127.6
165°	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5	1149.7	1150.9	1150.8
167.5°	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6
170°	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1
172.5°	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1	1186.4	1187.6	1187.6
175°	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6	1194.9	1196.2	1196.0
177.5°	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5	1198.4	1199.5	1199.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	973.8	973.5	976.2	974.2	976.2	973.5	973.8	976.6	977.4	977.8	977.8
5°	906.4	908.0	903.0	903.0	903.0	908.0	906.4	909.4	911.9	913.9	916.8
7.5°	846.4	844.2	844.4	841.8	844.4	844.2	846.4	848.9	852.0	856.3	860.4
10°	809.7	806.8	805.8	806.3	805.8	806.8	809.7	815.7	817.7	821.6	826.0
12.5°	779.3	778.7	772.2	772.3	772.2	778.7	779.3	780.9	785.2	793.5	798.8
15°	743.6	734.2	733.2	736.2	733.2	734.2	743.6	743.6	745.6	752.0	755.0
17.5°	707.8	702.9	703.1	701.6	703.1	702.9	707.8	708.6	710.1	715.4	719.3
20°	688.8	685.9	685.4	681.9	685.4	685.9	688.8	688.8	690.8	693.2	697.2
22.5°	671.5	670.5	670.8	666.9	670.8	670.5	671.5	672.7	674.7	676.3	679.1
25°	649.9	652.3	650.4	650.4	650.4	652.3	649.9	650.4	650.8	653.3	655.3
27.5°	635.3	635.2	634.1	634.1	634.1	635.2	635.3	634.0	633.5	632.6	632.2
30°	624.2	623.7	624.7	624.7	624.7	623.7	624.2	622.3	621.2	620.8	618.8
32.5°	613.1	613.9	614.1	614.4	614.1	613.9	613.1	610.8	609.0	607.8	606.1
35°	596.1	596.5	598.0	597.1	598.0	596.5	596.1	593.1	591.2	588.1	585.7
37.5°	573.0	575.2	574.8	575.5	574.8	575.2	573.0	572.1	570.1	567.9	565.0
40°	555.6	557.1	556.6	556.6	556.6	557.1	555.6	555.2	553.2	551.7	549.2
42.5°	537.8	538.9	537.6	536.9	537.6	538.9	537.8	537.0	535.7	533.1	530.3
45°	508.7	507.7	509.3	507.3	509.3	507.7	508.7	506.8	506.2	504.3	501.8
47.5°	476.2	477.1	477.6	479.0	477.6	477.1	476.2	476.4	473.6	472.4	471.6
50°	454.5	457.4	457.4	456.9	457.4	457.4	454.5	453.5	451.5	449.5	449.5
52.5°	433.1	434.5	436.5	436.4	436.5	434.5	433.1	431.4	429.4	426.6	425.8
55°	400.2	401.1	402.2	402.7	402.2	401.1	400.2	396.2	394.7	393.2	390.8
57.5°	366.0	365.6	368.0	368.7	368.0	365.6	366.0	362.5	360.2	355.7	355.1
60°	342.0	342.0	345.9	347.4	345.9	342.0	342.0	338.0	334.5	331.6	330.6
62.5°	316.3	317.9	321.8	319.7	321.8	317.9	316.3	312.0	309.2	305.6	302.9
65°	278.8	282.8	282.3	284.2	282.3	282.8	278.8	276.4	270.9	267.4	264.5
67.5°	239.6	242.0	245.6	245.9	245.6	242.0	239.6	235.6	232.1	228.5	224.9
70°	213.2	215.7	217.6	219.0	217.6	215.7	213.2	209.2	205.3	202.8	198.9
72.5°	187.5	188.8	193.5	191.4	193.5	188.8	187.5	182.8	179.6	177.6	173.2
75°	147.0	150.5	153.4	151.9	153.4	150.5	147.0	143.5	141.1	138.2	134.2
77.5°	108.8	112.2	113.6	112.4	113.6	112.2	108.8	106.5	105.2	99.3	99.0
80°	85.9	85.4	88.3	87.8	88.3	85.4	85.9	82.4	79.9	76.4	76.4
82.5°	63.0	62.5	63.8	64.2	63.8	62.5	63.0	61.1	57.9	56.4	55.1
85°	30.6	32.0	30.1	29.6	30.1	32.0	30.6	28.7	28.7	28.7	28.1
87.5°	12.5	12.6	12.3	12.0	12.3	12.6	12.5	12.4	13.9	12.5	12.3
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	38.7	38.5	38.3	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5
95°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3
97.5°	113.2	113.1	113.0	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8
100°	141.8	142.1	142.6	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6
102.5°	174.1	174.0	174.0	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7
105°	222.6	223.1	223.5	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1
107.5°	276.8	276.5	276.3	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5
110°	312.6	312.3	311.9	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.3	349.2	349.1	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9
115°	401.4	401.2	401.1	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2
117.5°	455.1	454.5	453.9	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0
120°	491.4	491.1	490.6	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6
122.5°	527.4	526.7	526.1	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5
125°	581.2	580.3	579.5	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5
127.5°	634.4	633.4	632.4	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8
130°	670.5	669.0	667.6	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8
132.5°	705.7	704.6	703.4	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8
135°	759.6	759.1	758.7	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3
137.5°	810.2	809.4	808.6	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6
140°	844.6	843.1	841.7	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3
142.5°	876.7	875.5	874.4	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9
145°	923.6	922.7	921.9	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4
147.5°	967.4	966.1	964.9	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3
150°	994.5	993.3	991.9	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4
152.5°	1020.3	1019.3	1018.1	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2
155°	1057.2	1055.7	1054.2	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3
157.5°	1088.9	1087.7	1086.6	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4
160°	1109.0	1108.1	1107.3	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6
162.5°	1126.2	1124.9	1123.6	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7
165°	1149.4	1147.9	1146.5	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5
167.5°	1168.3	1167.0	1165.7	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0
170°	1178.6	1177.1	1175.6	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1
172.5°	1186.1	1184.7	1183.2	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1
175°	1194.6	1193.1	1191.7	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6
177.5°	1198.3	1197.0	1195.9	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	976.6	976.6	984.1	988.8	994.8	998.7	1001.5	1004.3	1009.0	1015.3	1022.4
5°	920.8	922.7	933.6	944.4	954.8	963.7	971.1	980.0	990.8	1004.2	1019.0
7.5°	866.7	874.3	885.2	898.4	912.9	925.9	939.1	953.7	968.9	988.5	1009.3
10°	832.0	840.4	853.7	870.4	885.7	901.0	917.3	933.1	952.3	975.5	1002.2
12.5°	801.5	809.5	823.2	841.6	856.1	873.0	891.6	912.2	933.8	961.7	991.9
15°	759.4	768.7	785.5	794.5	816.6	836.9	854.1	883.7	911.3	940.0	975.1
17.5°	724.8	730.1	743.7	760.2	776.7	799.5	822.1	846.8	874.3	909.3	953.1
20°	701.2	705.6	720.4	737.7	755.4	776.2	796.4	821.0	852.2	889.2	936.5
22.5°	683.4	688.2	698.0	716.3	732.9	750.2	770.3	799.7	832.8	869.0	920.4
25°	657.7	660.7	667.1	681.9	696.7	716.0	733.8	761.4	795.4	837.8	889.2
27.5°	633.4	636.2	641.6	652.2	666.0	681.6	701.0	724.4	759.0	805.1	859.6
30°	618.8	619.3	624.2	634.0	645.9	658.7	676.5	703.1	735.7	782.6	839.8
32.5°	606.1	604.3	607.7	615.1	626.6	639.4	654.0	680.2	711.6	757.7	816.5
35°	584.8	583.7	582.3	588.7	598.5	608.4	621.2	641.0	676.5	719.4	781.1
37.5°	562.9	560.5	557.9	560.8	568.5	578.8	589.9	607.6	638.1	685.4	744.4
40°	546.8	544.8	543.3	542.2	549.2	559.0	567.4	584.2	612.8	657.7	716.0
42.5°	529.0	527.8	525.9	524.5	530.3	537.7	546.5	561.4	589.9	632.1	687.2
45°	500.3	499.4	498.4	497.4	500.9	507.7	514.6	525.5	550.2	591.2	641.0
47.5°	468.4	467.2	467.6	466.0	469.4	474.0	478.8	490.5	514.2	547.2	583.6
50°	445.5	445.1	445.1	445.1	446.1	451.5	455.9	464.9	486.5	519.6	545.7
52.5°	423.9	421.8	421.8	422.5	424.3	427.8	430.6	440.4	459.3	486.4	510.2
55°	389.8	385.9	384.8	385.9	387.4	390.3	393.2	401.1	417.5	437.7	451.5
57.5°	352.1	350.0	348.6	348.8	349.7	352.0	354.3	362.9	375.7	386.3	395.1
60°	325.6	326.7	322.3	323.2	323.2	325.2	328.7	334.0	344.9	352.3	361.2
62.5°	300.8	299.4	298.1	296.7	296.7	297.6	302.2	306.4	315.7	319.5	326.5
65°	262.0	262.0	259.0	260.0	260.5	257.1	259.6	264.5	270.4	271.9	278.3
67.5°	222.7	221.4	219.7	218.2	218.2	217.9	219.1	221.7	226.1	226.6	231.5
70°	195.9	194.9	194.4	192.9	191.0	193.4	191.9	194.4	196.9	197.4	200.3
72.5°	169.8	168.8	168.0	166.5	165.7	165.4	165.5	168.3	170.0	169.4	172.7
75°	132.7	131.8	130.7	128.3	128.3	126.8	127.3	129.3	131.3	129.8	132.7
77.5°	97.5	94.4	94.3	94.9	93.2	93.6	92.9	92.7	93.6	93.7	96.3
80°	75.0	71.5	72.6	72.0	71.5	71.1	70.0	70.6	71.1	71.5	73.0
82.5°	54.1	53.8	52.8	52.7	52.2	50.9	50.3	51.2	51.7	51.5	52.5
85°	27.6	26.1	27.1	26.7	27.1	26.7	25.2	25.2	26.1	25.6	26.7
87.5°	13.0	12.8	11.9	11.7	10.7	10.7	9.8	9.7	9.7	9.3	9.7
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	36.8	36.1	34.6	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8
95°	70.5	69.7	68.0	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5
97.5°	109.9	109.0	107.7	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6
100°	138.9	138.3	137.2	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0
102.5°	172.0	171.4	170.0	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8
105°	222.1	222.1	220.2	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7
107.5°	274.8	274.2	273.4	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7
110°	310.4	309.5	309.2	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	345.9	344.9	344.9	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4
115°	401.1	400.8	401.2	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8
117.5°	456.1	456.1	456.7	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7
120°	492.8	493.0	494.1	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1
122.5°	530.1	530.7	531.2	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0
125°	585.3	586.2	586.5	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2
127.5°	639.9	641.1	641.6	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2
130°	675.6	676.5	677.1	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8
132.5°	710.9	711.8	712.3	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4
135°	763.2	763.9	764.2	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3
137.5°	814.5	815.3	814.8	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2
140°	847.5	847.7	847.5	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1
142.5°	879.1	879.3	878.9	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9
145°	925.6	925.8	925.2	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1
147.5°	969.3	969.3	968.7	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3
150°	996.4	996.4	996.0	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6
152.5°	1020.8	1020.5	1020.2	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7
155°	1056.5	1055.6	1055.5	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1087.6	1086.7	1086.6	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0
160°	1106.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4
162.5°	1124.6	1123.6	1123.4	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5
165°	1147.2	1145.9	1145.9	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8
167.5°	1165.7	1164.4	1164.2	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4
170°	1175.6	1174.2	1174.2	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0
172.5°	1183.7	1182.4	1182.4	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2
175°	1192.4	1191.1	1191.1	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9
177.5°	1196.5	1195.4	1195.4	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1024.7	1026.7	1033.5	1038.2	1043.7	1046.9	1050.0	1052.4	1055.6	1056.3	1067.8
5°	1029.4	1039.2	1056.5	1069.3	1085.1	1102.3	1114.2	1119.6	1133.9	1145.8	1169.4
7.5°	1028.0	1049.0	1075.1	1102.1	1131.1	1158.0	1181.3	1208.9	1228.6	1258.1	1287.1
10°	1026.8	1055.0	1088.5	1123.0	1163.6	1201.0	1234.5	1272.1	1303.2	1344.2	1379.1
12.5°	1023.3	1057.3	1103.9	1144.8	1193.9	1245.7	1295.3	1343.5	1371.0	1439.3	1471.5
15°	1014.6	1055.0	1113.2	1175.4	1242.9	1304.2	1367.3	1417.7	1499.0	1558.8	1596.8
17.5°	997.8	1054.4	1123.4	1198.4	1280.6	1361.3	1432.9	1509.2	1595.5	1667.8	1744.8
20°	989.9	1052.0	1129.0	1211.9	1297.2	1388.6	1470.0	1561.7	1656.0	1727.0	1825.7
22.5°	975.2	1045.7	1128.6	1221.0	1312.2	1406.7	1501.9	1594.5	1703.4	1801.3	1895.2
25°	951.3	1030.3	1116.2	1219.3	1326.3	1421.1	1535.1	1657.9	1771.4	1897.2	1991.0
27.5°	926.2	1010.6	1096.6	1192.5	1307.7	1420.1	1563.5	1702.3	1841.2	1949.7	2019.1
30°	906.9	988.8	1077.7	1174.4	1288.4	1422.1	1582.4	1733.9	1869.2	1962.4	2001.4
32.5°	886.0	969.1	1047.6	1149.1	1270.6	1420.9	1594.3	1752.5	1870.8	1932.8	1925.2
35°	853.2	922.7	999.2	1096.9	1240.0	1412.2	1601.2	1754.2	1826.7	1813.4	1712.7
37.5°	805.8	864.3	939.6	1046.6	1204.5	1393.9	1587.4	1702.1	1697.4	1588.9	1443.1
40°	776.2	826.0	898.5	1011.1	1176.9	1382.1	1565.7	1640.2	1577.1	1425.5	1250.8
42.5°	737.5	783.3	855.9	971.6	1146.4	1358.0	1524.2	1545.9	1422.3	1247.9	1087.8
45°	677.5	717.9	793.0	912.4	1100.9	1305.6	1423.1	1370.3	1204.0	1023.9	902.0
47.5°	613.0	655.1	727.3	849.9	1034.9	1226.8	1282.7	1170.4	999.7	853.7	741.8
50°	572.4	612.8	683.4	807.3	990.3	1162.1	1185.2	1040.2	883.3	755.0	663.2
52.5°	531.3	569.4	638.8	763.1	938.2	1087.0	1072.7	924.9	780.6	671.3	599.3
55°	470.2	506.2	572.4	688.8	848.2	966.1	914.4	773.3	653.8	568.9	514.2
57.5°	415.6	450.2	507.2	612.4	750.9	832.0	766.0	647.1	552.1	486.8	446.0
60°	378.4	409.1	463.4	561.0	681.5	743.1	678.0	572.9	492.9	440.6	404.2
62.5°	343.4	369.9	420.3	509.0	613.5	665.3	599.5	510.5	442.4	396.1	365.0
65°	290.1	314.3	358.7	427.8	513.7	548.2	491.4	419.4	366.6	332.1	311.3
67.5°	241.6	262.1	300.5	354.9	418.0	443.2	400.0	344.2	304.4	276.7	260.2
70°	209.2	227.0	257.1	304.0	361.2	380.4	340.0	294.1	264.9	242.8	227.4
72.5°	182.0	195.0	222.3	258.5	306.3	321.6	293.4	253.1	225.9	209.2	197.1
75°	138.6	149.5	167.3	196.4	229.4	238.4	217.1	191.9	173.7	161.8	152.5
77.5°	100.0	107.9	120.8	138.7	161.6	169.7	156.2	139.4	126.1	118.1	112.9
80°	75.5	81.9	92.7	107.5	121.4	125.8	117.9	105.1	95.8	91.3	86.8
82.5°	55.8	59.4	65.9	76.0	85.5	90.7	84.0	76.3	71.3	67.2	65.5
85°	28.1	30.1	33.1	37.0	42.9	44.9	42.4	40.4	37.5	35.1	35.1
87.5°	10.8	11.3	12.9	14.1	16.1	17.9	18.0	17.8	17.9	17.7	17.4
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	24.2	25.6	27.1	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5
95°	56.9	58.4	59.9	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3
97.5°	99.7	100.8	101.9	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8
100°	129.2	130.4	131.7	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6
102.5°	162.6	163.3	164.1	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7
105°	212.1	212.5	212.9	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1
107.5°	269.9	270.1	270.4	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5
110°	306.2	306.6	307.0	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	343.7	343.9	344.1	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9
115°	400.5	401.1	401.7	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2
117.5°	457.1	457.5	458.0	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0
120°	493.3	494.6	495.9	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6
122.5°	529.9	530.7	531.7	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5
125°	585.9	586.4	587.1	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5
127.5°	638.5	639.8	641.1	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8
130°	673.4	675.1	676.7	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8
132.5°	708.0	709.7	711.4	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8
135°	760.5	761.8	763.0	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3
137.5°	809.3	810.3	811.3	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6
140°	843.1	844.1	845.2	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3
142.5°	873.9	875.1	876.1	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9
145°	921.5	921.9	922.4	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4
147.5°	964.0	964.8	965.5	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3
150°	993.1	993.4	993.8	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4
152.5°	1017.3	1017.9	1018.4	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2
155°	1054.7	1054.7	1054.7	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3
157.5°	1086.8	1086.6	1086.3	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4
160°	1106.9	1106.5	1106.2	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6
162.5°	1124.8	1124.3	1123.7	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7
165°	1148.1	1147.5	1146.9	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5
167.5°	1166.6	1165.7	1164.9	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0
170°	1177.1	1176.3	1175.4	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1
172.5°	1185.4	1184.6	1183.7	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1
175°	1194.0	1193.2	1192.4	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6
177.5°	1197.8	1197.1	1196.5	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1071.8	1072.1	1076.5	1079.7	1078.1	1080.1	1080.8
5°	1170.9	1188.7	1198.1	1204.9	1205.5	1206.0	1209.9
7.5°	1311.5	1330.6	1344.5	1365.6	1372.0	1379.1	1377.1
10°	1414.2	1442.3	1466.5	1479.3	1493.2	1513.3	1497.1
12.5°	1510.1	1560.0	1596.8	1616.7	1629.8	1633.8	1625.8
15°	1668.3	1733.4	1768.5	1767.5	1811.9	1831.2	1801.0
17.5°	1813.4	1873.5	1921.7	1946.4	1983.3	1991.5	1987.7
20°	1902.2	1967.8	2005.4	2047.8	2067.0	2084.2	2087.3
22.5°	1978.8	2037.7	2077.9	2113.3	2129.4	2137.6	2142.5
25°	2057.7	2104.0	2128.2	2140.5	2144.9	2144.0	2137.6
27.5°	2052.2	2055.8	2029.1	2003.0	1979.6	1953.2	1944.2
30°	1998.9	1957.5	1883.5	1841.5	1779.8	1731.0	1750.7
32.5°	1858.8	1776.3	1693.2	1601.5	1525.6	1504.0	1482.2
35°	1586.4	1441.3	1356.5	1257.7	1218.3	1178.8	1151.7
37.5°	1283.5	1171.2	1070.5	1006.0	966.5	941.5	928.0
40°	1109.7	1008.6	925.7	873.4	843.3	815.2	811.2
42.5°	971.2	877.1	814.7	773.1	744.2	732.3	723.6
45°	795.4	729.8	687.9	658.3	639.0	631.6	621.7
47.5°	673.3	626.9	595.4	575.2	560.7	555.3	554.4
50°	604.9	566.5	543.3	527.4	516.1	514.2	506.2
52.5°	553.6	520.3	502.2	488.4	480.2	474.7	472.3
55°	480.6	458.4	442.1	434.2	427.8	422.4	422.4
57.5°	420.5	402.0	391.2	384.5	382.5	378.6	376.2
60°	383.4	367.6	359.2	353.3	349.4	349.9	345.4
62.5°	347.0	336.9	328.9	322.9	318.2	318.3	318.6
65°	295.6	287.7	281.7	279.7	276.8	273.3	274.4
67.5°	250.4	243.1	238.5	235.1	234.1	232.2	235.1
70°	218.1	212.6	209.2	206.2	205.3	205.8	208.2
72.5°	188.5	184.6	182.4	181.0	178.8	178.9	180.6
75°	148.1	145.1	143.1	141.6	141.1	141.1	141.1
77.5°	108.8	108.1	107.2	105.0	105.1	105.7	105.8
80°	85.9	84.4	83.9	82.9	81.4	80.4	82.9
82.5°	64.2	62.7	62.2	62.0	59.7	59.5	61.5
85°	34.5	33.1	33.6	33.1	33.1	32.6	32.6
87.5°	17.2	17.1	16.8	17.2	17.0	16.6	17.5
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	38.2	38.8	39.0	38.7	38.5	38.3	38.0
95°	72.1	73.0	73.4	73.4	73.4	73.4	73.4
97.5°	111.9	112.8	113.2	113.2	113.1	113.0	112.9
100°	140.2	140.8	141.4	141.8	142.1	142.6	143.0
102.5°	173.3	173.9	174.2	174.1	174.0	174.0	173.9
105°	222.1	222.1	222.3	222.6	223.1	223.5	223.9
107.5°	276.2	276.8	277.0	276.8	276.5	276.3	276.1
110°	312.1	312.9	313.1	312.6	312.3	311.9	311.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.9	348.9	349.4	349.3	349.2	349.1	349.0
115°	401.4	401.6	401.6	401.4	401.2	401.1	400.8
117.5°	456.0	456.0	455.6	455.1	454.5	453.9	453.3
120°	492.4	492.2	491.8	491.4	491.1	490.6	490.2
122.5°	529.0	528.5	527.9	527.4	526.7	526.1	525.6
125°	583.6	582.8	581.9	581.2	580.3	579.5	578.6
127.5°	637.6	636.4	635.4	634.4	633.4	632.4	631.5
130°	673.9	673.2	671.9	670.5	669.0	667.6	666.1
132.5°	708.9	707.8	706.8	705.7	704.6	703.4	702.3
135°	761.5	760.6	760.0	759.6	759.1	758.7	758.4
137.5°	812.8	811.8	811.0	810.2	809.4	808.6	807.9
140°	847.1	846.9	846.0	844.6	843.1	841.7	840.2
142.5°	878.7	878.4	877.8	876.7	875.5	874.4	873.3
145°	925.2	924.9	924.4	923.6	922.7	921.9	921.1
147.5°	969.3	969.3	968.7	967.4	966.1	964.9	963.7
150°	996.4	996.4	995.7	994.5	993.3	991.9	990.7
152.5°	1021.4	1021.8	1021.4	1020.3	1019.3	1018.1	1017.1
155°	1058.2	1058.9	1058.7	1057.2	1055.7	1054.2	1052.8
157.5°	1089.3	1090.2	1090.1	1088.9	1087.7	1086.6	1085.3
160°	1108.6	1109.7	1109.7	1109.0	1108.1	1107.3	1106.5
162.5°	1126.7	1127.8	1127.6	1126.2	1124.9	1123.6	1122.3
165°	1149.7	1150.9	1150.8	1149.4	1147.9	1146.5	1145.0
167.5°	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4
170°	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2
172.5°	1186.4	1187.6	1187.6	1186.1	1184.7	1183.2	1181.7
175°	1194.9	1196.2	1196.0	1194.6	1193.1	1191.7	1190.1
177.5°	1198.4	1199.5	1199.4	1198.3	1197.0	1195.9	1194.7
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7

(END OF REPORT)