

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: P332028-935

Luminaire Tested: **S123DIP-S1000D1025U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332028-935
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-S1000D1025U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 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: 6684.5 lumens
Efficiency: N/A
Efficacy: 110.5 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

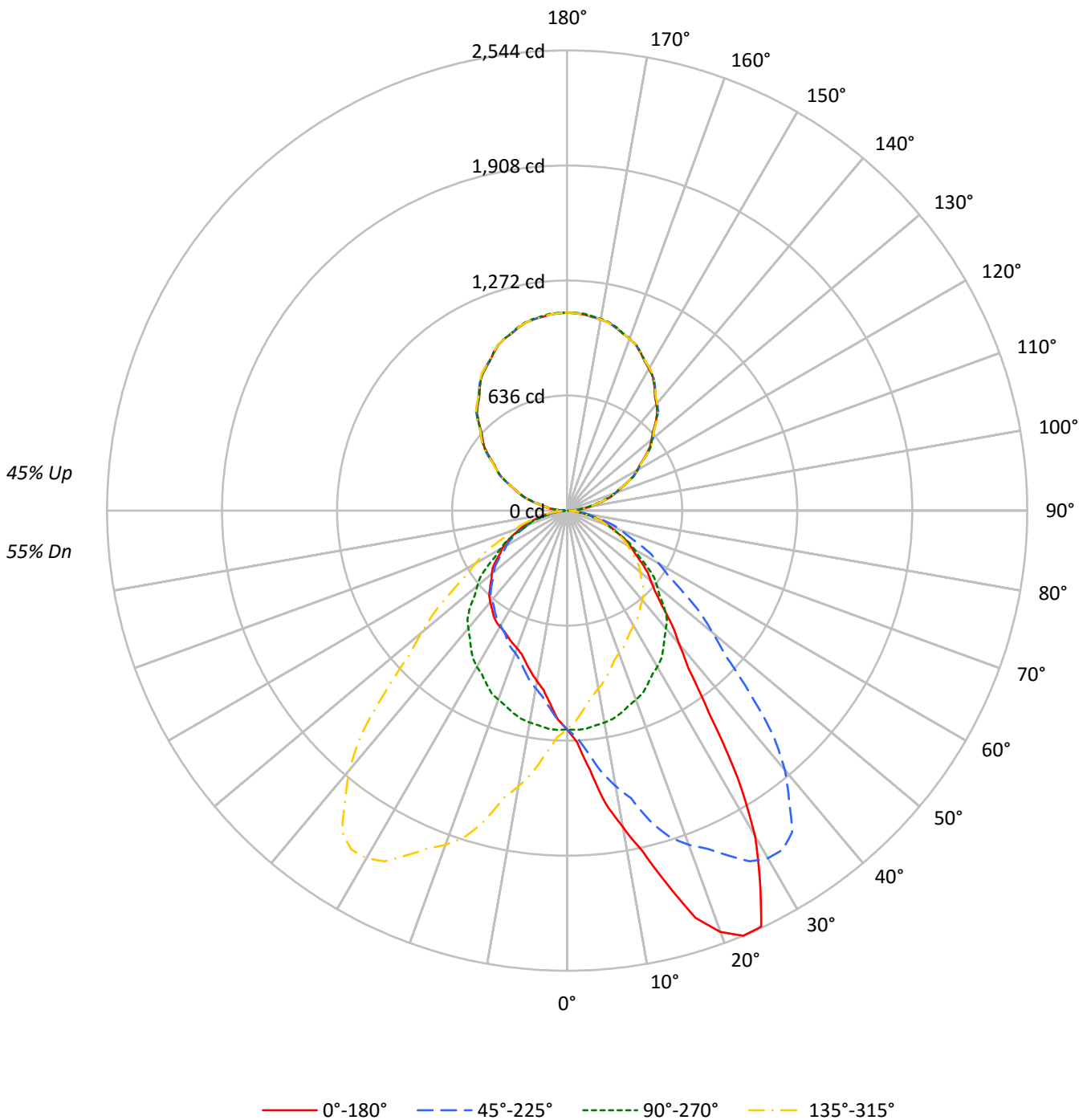
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	64	54	47	42	47	42	37	41	36	33	34	31	29	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	26	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13017	13017	13017	13017
5°	15524	13073	11585	13073
10°	19429	13007	10463	13007
15°	23832	12902	9742	12902
20°	28389	12739	9275	12739
25°	30144	12539	9171	12539
30°	25838	12394	9220	12394
35°	17969	12188	9315	12188
40°	13534	11946	9286	11946
45°	11237	11586	9168	11586
50°	10068	10851	9085	10851
55°	9411	10061	8972	10061
60°	8829	9233	8880	9233
65°	8298	8418	8596	8418
70°	7783	7487	8186	7487
75°	6970	6554	7507	6554
80°	6100	5374	6465	5374
85°	4780	3903	4335	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.8
10°-20°	382.0	5.7
20°-30°	641.1	9.6
30°-40°	725.9	10.9
40°-50°	651.0	9.7
50°-60°	525.3	7.9
60°-70°	366.1	5.5
70°-80°	192.4	2.9
80°-90°	50.3	0.8
90°-100°	71.3	1.1
100°-110°	213.3	3.2
110°-120°	362.8	5.4
120°-130°	477.3	7.1
130°-140°	536.4	8.0
140°-150°	527.3	7.9
150°-160°	443.9	6.6
160°-170°	295.5	4.4
170°-180°	103.5	1.5
0°-30°	1142.2	17.1
0°-40°	1868.1	27.9
0°-60°	3044.4	45.5
0°-90°	3653.2	54.7
90°-120°	647.5	9.7
90°-150°	2188.5	32.7
90°-180°	3031.0	45.3
0°-180°	6684.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1209	1209	1209	1209	1209	
5°	1437	1210	1072	1210	1437	149
15°	2139	1158	874	1158	2139	617
25°	2538	1056	772	1056	2538	1113
35°	1368	928	709	928	1368	888
45°	738	761	602	761	738	584
55°	502	536	478	536	502	450
65°	326	330	338	330	326	324
75°	168	158	180	158	168	179
85°	39	32	35	32	39	46
90°	26	1	26	1	26	14
95°	67	51	67	51	67	69
105°	205	193	205	193	205	217
115°	366	365	366	365	366	362
125°	529	535	529	535	529	473
135°	693	694	693	694	693	533
145°	841	841	841	841	841	525
155°	962	964	962	964	962	443
165°	1046	1049	1046	1049	1046	295
175°	1087	1092	1087	1092	1087	103
180°	1094	1094	1094	1094	1094	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1283.3	1282.5	1280.0	1281.9	1278.2	1273.1	1272.6	1267.9	1254.3	1253.4	1249.7
5°	1436.7	1431.9	1431.3	1430.8	1422.5	1411.4	1390.3	1388.6	1360.5	1346.4	1329.4
7.5°	1635.1	1637.6	1629.0	1621.5	1596.5	1579.9	1557.3	1528.4	1493.8	1458.8	1435.5
10°	1777.6	1797.0	1773.0	1756.5	1741.3	1712.6	1679.2	1637.6	1596.0	1547.4	1510.5
12.5°	1930.4	1939.9	1935.1	1919.7	1896.0	1852.3	1793.1	1747.3	1709.0	1628.0	1595.3
15°	2138.6	2174.3	2151.5	2098.7	2099.9	2058.3	1980.9	1896.0	1850.9	1779.9	1683.3
17.5°	2360.3	2364.7	2355.0	2311.0	2281.7	2224.6	2153.2	2071.7	1980.4	1894.5	1792.1
20°	2478.4	2474.9	2454.4	2431.5	2381.1	2336.6	2258.7	2167.8	2050.6	1966.3	1854.4
22.5°	2544.0	2538.1	2528.4	2509.3	2467.4	2419.6	2349.6	2250.3	2138.8	2022.6	1893.3
25°	2538.1	2545.7	2546.9	2541.7	2527.0	2498.3	2443.2	2364.1	2252.8	2103.4	1968.7
27.5°	2308.4	2319.3	2350.5	2378.3	2409.3	2441.0	2436.8	2397.5	2315.1	2186.1	2021.4
30°	2078.8	2055.4	2113.3	2186.6	2236.4	2324.3	2373.5	2376.4	2330.1	2219.4	2058.8
32.5°	1760.1	1785.8	1811.5	1901.6	2010.4	2109.1	2207.1	2286.0	2295.0	2221.3	2080.9
35°	1367.5	1399.7	1446.6	1493.5	1610.7	1711.4	1883.7	2033.7	2153.2	2169.0	2082.8
37.5°	1102.0	1117.9	1147.5	1194.6	1271.2	1390.7	1524.0	1713.6	1886.7	2015.5	2021.1
40°	963.2	967.9	1001.3	1037.1	1099.2	1197.6	1317.7	1485.2	1692.6	1872.6	1947.6
42.5°	859.2	869.4	883.6	918.0	967.4	1041.5	1153.1	1291.7	1481.8	1688.8	1835.5
45°	738.2	749.9	758.7	781.6	816.7	866.5	944.5	1071.0	1215.7	1429.6	1627.0
47.5°	658.3	659.3	665.8	683.0	707.0	744.3	799.4	880.7	1013.6	1187.1	1389.7
50°	601.2	610.5	612.9	626.3	645.1	672.6	718.3	787.5	896.5	1048.8	1235.1
52.5°	560.9	563.6	570.2	580.0	596.3	617.8	657.4	711.5	797.0	926.9	1098.2
55°	501.5	501.5	508.0	515.6	525.0	544.3	570.7	610.5	675.5	776.4	918.1
57.5°	446.7	449.6	454.2	456.5	464.5	477.3	499.3	529.5	578.1	655.7	768.4
60°	410.1	415.4	414.8	419.5	426.5	436.5	455.2	479.8	523.2	585.3	680.3
62.5°	378.2	377.9	377.8	383.4	390.5	399.9	412.2	433.4	470.3	525.3	606.1
65°	325.8	324.6	328.7	332.2	334.6	341.6	350.9	369.7	394.3	435.3	498.0
67.5°	279.1	275.7	277.9	279.1	283.1	288.6	297.4	309.0	328.6	361.5	408.7
70°	247.3	244.4	243.7	244.9	248.4	252.5	259.0	270.1	288.3	314.6	349.2
72.5°	214.5	212.4	212.3	214.9	216.5	219.2	223.8	234.0	248.4	268.2	300.5
75°	167.6	167.6	167.6	168.2	169.9	172.3	175.7	181.1	192.2	206.2	227.9
77.5°	125.6	125.5	124.8	124.7	127.3	128.3	129.2	134.1	140.3	149.7	165.6
80°	98.4	95.5	96.7	98.4	99.6	100.2	101.9	103.1	108.4	113.7	124.8
82.5°	73.1	70.7	70.9	73.6	73.8	74.4	76.2	77.8	79.8	84.6	90.6
85°	38.7	38.7	39.3	39.3	39.9	39.3	41.0	41.6	41.6	44.5	48.0
87.5°	19.2	18.2	18.6	19.0	18.4	18.8	19.1	19.5	19.7	20.1	20.1
90°	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1	21.4	20.7	18.2
92.5°	34.7	35.0	35.2	35.4	35.6	35.5	34.9	34.3	33.6	33.0	31.6
95°	67.1	67.1	67.1	67.1	67.1	66.6	65.9	65.1	64.4	63.6	62.1
97.5°	103.1	103.2	103.3	103.4	103.4	103.1	102.2	101.3	100.4	99.5	98.4
100°	130.6	130.3	129.8	129.5	129.2	128.6	128.0	127.5	126.9	126.3	125.4
102.5°	158.9	158.9	158.9	159.0	159.1	158.9	158.3	157.7	157.1	156.6	155.3
105°	204.6	204.1	203.8	203.4	203.0	202.9	202.9	202.9	202.9	202.9	201.1
107.5°	252.2	252.4	252.6	252.9	253.0	252.9	252.3	251.7	251.1	250.5	249.8
110°	284.5	284.9	285.2	285.6	286.0	285.9	285.1	284.3	283.5	282.8	282.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	318.8	318.9	319.0	319.1	319.2	318.7	317.8	316.9	316.0	315.0	315.0
115°	366.1	366.4	366.5	366.7	366.9	366.9	366.7	366.5	366.4	366.1	366.5
117.5°	414.1	414.7	415.2	415.7	416.2	416.6	416.6	416.6	416.6	416.6	417.2
120°	447.8	448.2	448.6	448.9	449.3	449.6	449.8	450.0	450.1	450.4	451.3
122.5°	480.1	480.6	481.1	481.7	482.2	482.8	483.3	483.7	484.2	484.7	485.3
125°	528.6	529.3	530.1	530.9	531.6	532.4	533.1	533.9	534.7	535.5	535.8
127.5°	576.9	577.7	578.6	579.5	580.4	581.3	582.5	583.5	584.5	585.7	586.1
130°	608.5	609.8	611.1	612.5	613.8	614.9	615.6	616.4	617.2	617.9	618.5
132.5°	641.5	642.6	643.6	644.6	645.7	646.6	647.6	648.4	649.4	650.2	650.7
135°	692.8	693.1	693.4	693.9	694.2	694.8	695.6	696.4	697.2	697.8	698.1
137.5°	738.0	738.7	739.3	740.1	740.8	741.6	742.4	743.2	744.0	744.8	744.3
140°	767.5	768.9	770.2	771.5	772.8	773.6	773.8	774.0	774.2	774.4	774.2
142.5°	797.7	798.7	799.8	800.8	801.8	802.5	802.7	802.9	803.1	803.2	802.9
145°	841.4	842.1	842.9	843.7	844.5	844.9	845.2	845.3	845.5	845.7	845.2
147.5°	880.3	881.4	882.5	883.7	884.8	885.5	885.5	885.5	885.5	885.5	884.8
150°	905.0	906.1	907.3	908.4	909.6	910.2	910.2	910.2	910.2	910.2	909.8
152.5°	929.1	930.1	931.1	932.0	933.1	933.4	933.1	932.8	932.5	932.2	931.9
155°	961.7	963.0	964.4	965.8	967.1	967.3	966.6	965.9	965.1	964.3	964.1
157.5°	991.4	992.6	993.6	994.7	995.7	995.9	995.1	994.3	993.5	992.6	992.6
160°	1010.7	1011.5	1012.3	1013.1	1013.7	1013.7	1012.7	1011.8	1010.8	1009.9	1009.9
162.5°	1025.2	1026.4	1027.6	1028.8	1030.0	1030.2	1029.2	1028.3	1027.3	1026.4	1026.2
165°	1045.9	1047.3	1048.6	1050.0	1051.3	1051.4	1050.2	1049.1	1047.9	1046.8	1046.8
167.5°	1063.7	1064.9	1066.0	1067.2	1068.4	1068.4	1067.2	1066.0	1064.9	1063.7	1063.5
170°	1072.6	1073.9	1075.3	1076.6	1078.0	1078.0	1076.6	1075.3	1073.9	1072.6	1072.6
172.5°	1079.4	1080.8	1082.2	1083.5	1084.9	1084.9	1083.7	1082.5	1081.3	1080.1	1080.1
175°	1087.2	1088.6	1089.9	1091.2	1092.5	1092.7	1091.5	1090.4	1089.3	1088.0	1088.0
177.5°	1091.3	1092.4	1093.5	1094.6	1095.6	1095.7	1094.8	1093.9	1093.0	1092.0	1092.0
180°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1246.8	1243.0	1239.3	1232.8	1227.1	1219.2	1216.8	1214.0	1205.6	1198.1	1192.4
5°	1322.9	1308.9	1288.4	1269.6	1254.4	1233.9	1222.2	1209.9	1192.3	1176.5	1163.6
7.5°	1402.7	1375.0	1343.2	1308.6	1276.6	1245.6	1220.6	1198.4	1173.8	1150.5	1132.3
10°	1465.9	1426.1	1381.6	1333.5	1292.5	1252.7	1219.3	1190.0	1158.3	1130.8	1107.9
12.5°	1538.1	1479.0	1417.6	1359.3	1310.8	1255.5	1215.0	1177.8	1141.9	1108.8	1083.1
15°	1623.5	1548.5	1475.9	1395.6	1321.8	1252.7	1204.6	1157.8	1116.1	1082.2	1049.4
17.5°	1701.3	1616.4	1520.6	1423.1	1333.9	1252.0	1184.7	1131.7	1079.7	1038.1	1005.4
20°	1745.4	1648.7	1540.3	1439.0	1340.6	1249.1	1175.4	1112.1	1055.8	1011.8	974.9
22.5°	1783.4	1670.3	1558.2	1449.8	1340.1	1241.6	1158.0	1092.9	1031.9	988.9	949.6
25°	1822.7	1687.4	1574.9	1447.8	1325.3	1223.4	1129.6	1055.8	994.9	944.5	904.0
27.5°	1856.5	1686.3	1552.7	1416.0	1302.1	1199.9	1099.8	1020.6	956.0	901.2	860.2
30°	1879.0	1688.6	1529.8	1394.5	1279.6	1174.1	1076.9	997.2	929.3	873.6	834.9
32.5°	1893.1	1687.1	1508.7	1364.4	1244.0	1150.7	1052.1	969.6	899.7	845.0	807.7
35°	1901.3	1676.9	1472.4	1302.4	1186.5	1095.6	1013.1	927.5	854.3	803.3	761.1
37.5°	1884.8	1655.2	1430.2	1242.7	1115.7	1026.2	956.7	883.9	813.8	757.7	721.3
40°	1859.1	1641.2	1397.4	1200.5	1067.0	980.8	921.6	850.2	781.0	727.7	693.7
42.5°	1809.8	1612.5	1361.3	1153.7	1016.3	930.1	875.7	816.0	750.5	700.5	666.5
45°	1689.7	1550.3	1307.2	1083.3	941.5	852.5	804.4	761.1	701.9	653.2	624.0
47.5°	1523.1	1456.6	1228.9	1009.2	863.5	777.8	727.9	693.0	649.8	610.5	582.4
50°	1407.3	1379.8	1175.9	958.6	811.5	727.7	679.7	648.0	617.0	577.7	551.9
52.5°	1273.8	1290.7	1114.0	906.0	758.5	676.1	630.9	605.8	577.6	545.4	522.9
55°	1085.7	1147.2	1007.2	817.9	679.7	601.2	558.4	536.1	519.7	495.7	476.3
57.5°	909.6	987.8	891.7	727.1	602.2	534.4	493.4	469.2	458.7	446.1	430.8
60°	805.0	882.4	809.2	666.2	550.2	485.7	449.4	428.9	418.4	409.6	396.7
62.5°	711.8	790.1	728.5	604.3	499.0	439.3	407.7	387.6	379.4	374.9	363.9
65°	583.6	650.9	609.9	508.0	425.9	373.2	344.5	330.5	322.9	321.1	314.0
67.5°	474.9	526.2	496.4	421.4	356.8	311.3	286.9	274.9	269.1	268.5	263.2
70°	403.7	451.8	428.9	360.9	305.2	269.5	248.4	237.9	234.4	233.8	230.8
72.5°	348.4	381.9	363.7	307.0	264.0	231.5	216.1	205.1	201.0	201.9	199.9
75°	257.8	283.0	272.4	233.2	198.6	177.5	164.6	157.6	154.1	155.8	153.5
77.5°	185.5	201.5	191.9	164.8	143.4	128.2	118.7	114.3	111.2	111.1	110.0
80°	140.0	149.4	144.1	127.7	110.1	97.3	89.6	86.7	85.0	84.4	83.8
82.5°	99.7	107.7	101.5	90.2	78.3	70.5	66.2	62.3	61.0	61.4	60.8
85°	50.4	53.3	51.0	43.9	39.3	35.7	33.4	31.6	30.5	31.1	29.9
87.5°	20.5	20.4	18.5	16.3	14.9	13.1	12.7	11.5	10.8	11.3	11.2
90°	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9	2.8	4.6	6.6
92.5°	30.1	28.8	27.4	26.0	24.7	23.4	22.1	20.8	22.1	23.4	24.7
95°	60.5	59.0	57.5	56.1	54.8	53.4	52.0	50.7	52.0	53.4	54.8
97.5°	97.3	96.2	95.1	94.0	93.1	92.0	91.1	90.1	91.1	92.0	93.1
100°	124.4	123.5	122.5	121.5	120.3	119.2	118.0	116.9	118.0	119.2	120.3
102.5°	154.0	152.8	151.5	150.6	149.9	149.2	148.5	147.8	148.5	149.2	149.9
105°	199.4	197.7	196.0	194.9	194.5	194.2	193.7	193.4	193.7	194.2	194.5
107.5°	249.1	248.4	247.7	247.3	247.0	246.8	246.6	246.3	246.6	246.8	247.0
110°	282.0	281.6	281.2	280.9	280.4	280.1	279.7	279.3	279.7	280.1	280.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	315.0	314.9	314.8	314.6	314.4	314.2	313.9	313.7	313.9	314.2	314.4
115°	366.9	367.3	367.6	367.6	367.0	366.4	365.8	365.2	365.8	366.4	367.0
117.5°	417.7	418.2	418.6	418.7	418.4	417.9	417.6	417.2	417.6	417.9	418.4
120°	452.3	453.2	454.2	454.1	453.0	451.8	450.6	449.5	450.6	451.8	453.0
122.5°	485.7	486.2	486.7	486.6	485.7	484.8	484.1	483.2	484.1	484.8	485.7
125°	536.2	536.6	537.0	536.8	536.3	535.7	535.2	534.6	535.2	535.7	536.3
127.5°	586.5	586.9	587.3	586.9	585.7	584.4	583.2	582.0	583.2	584.4	585.7
130°	619.1	619.7	620.3	619.7	618.2	616.7	615.2	613.6	615.2	616.7	618.2
132.5°	651.1	651.5	651.9	651.4	649.9	648.3	646.8	645.3	646.8	648.3	649.9
135°	698.3	698.4	698.6	698.2	697.0	695.9	694.7	693.6	694.7	695.9	697.0
137.5°	743.8	743.3	742.8	742.1	741.1	740.2	739.3	738.3	739.3	740.2	741.1
140°	774.0	773.8	773.6	773.0	772.1	771.1	770.2	769.2	770.2	771.1	772.1
142.5°	802.5	802.2	801.8	801.2	800.3	799.4	798.3	797.4	798.3	799.4	800.3
145°	844.6	844.0	843.4	842.9	842.6	842.1	841.8	841.4	841.8	842.1	842.6
147.5°	884.3	883.8	883.3	882.7	882.0	881.3	880.6	879.9	880.6	881.3	882.0
150°	909.4	909.0	908.6	908.3	907.8	907.5	907.1	906.7	907.1	907.5	907.8
152.5°	931.7	931.5	931.3	930.8	930.3	929.8	929.3	928.8	929.3	929.8	930.3
155°	963.9	963.7	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
157.5°	992.4	992.2	992.0	992.1	992.3	992.6	992.8	993.0	992.8	992.6	992.3
160°	1009.9	1009.9	1009.9	1010.0	1010.5	1010.8	1011.2	1011.6	1011.2	1010.8	1010.5
162.5°	1026.1	1025.9	1025.8	1026.0	1026.5	1027.0	1027.5	1028.1	1027.5	1027.0	1026.5
165°	1046.8	1046.8	1046.8	1047.1	1047.7	1048.3	1048.8	1049.4	1048.8	1048.3	1047.7
167.5°	1063.3	1063.2	1063.1	1063.3	1064.1	1064.9	1065.7	1066.4	1065.7	1064.9	1064.1
170°	1072.6	1072.6	1072.6	1073.0	1073.8	1074.5	1075.3	1076.1	1075.3	1074.5	1073.8
172.5°	1080.1	1080.1	1080.1	1080.6	1081.3	1082.1	1082.9	1083.6	1082.9	1082.1	1081.3
175°	1088.0	1088.0	1088.0	1088.5	1089.3	1089.9	1090.7	1091.5	1090.7	1089.9	1089.3
177.5°	1092.0	1092.0	1092.0	1092.4	1093.0	1093.6	1094.2	1094.8	1094.2	1093.6	1093.0
180°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1189.1	1185.9	1181.2	1174.1	1168.5	1159.6	1159.6	1161.1	1161.1	1160.5	1159.6
5°	1153.1	1144.3	1133.8	1121.5	1108.5	1095.6	1093.3	1088.6	1085.1	1082.7	1079.8
7.5°	1115.0	1099.4	1084.0	1066.8	1051.1	1038.1	1029.1	1021.6	1016.8	1011.6	1007.9
10°	1089.2	1069.9	1051.7	1033.5	1013.6	997.8	987.8	980.8	975.5	970.9	968.5
12.5°	1058.7	1036.6	1016.6	999.3	977.5	961.2	951.7	948.5	942.3	932.4	927.2
15°	1014.2	993.7	969.7	943.3	932.7	912.8	901.7	896.5	892.9	885.3	883.0
17.5°	976.1	949.3	922.3	902.7	883.0	866.9	860.7	854.1	849.5	843.3	841.4
20°	945.6	921.6	897.0	875.9	855.4	837.8	832.6	827.9	823.2	820.3	817.9
22.5°	914.7	890.7	870.3	850.6	828.7	817.2	811.5	806.3	803.1	801.1	798.7
25°	871.2	850.2	827.3	809.7	792.1	784.5	781.0	778.1	775.8	772.8	772.2
27.5°	832.3	809.3	790.8	774.5	761.8	755.4	752.1	750.6	751.1	752.2	752.9
30°	803.3	782.2	767.0	752.9	741.1	735.3	734.7	734.7	737.1	737.6	738.8
32.5°	776.5	759.2	744.0	730.4	721.5	717.5	719.7	719.7	721.6	723.2	725.2
35°	737.6	722.4	710.7	699.0	691.4	693.1	694.3	695.4	698.4	701.9	704.3
37.5°	700.5	687.3	675.1	665.9	662.5	665.6	668.4	670.9	674.2	676.9	679.3
40°	673.8	663.8	652.1	643.9	645.1	646.9	649.2	652.1	655.0	656.8	659.2
42.5°	648.9	638.5	629.6	622.8	624.5	626.7	628.1	629.6	633.0	636.2	637.6
45°	611.1	602.9	594.7	590.6	591.8	593.0	594.1	595.9	598.8	601.2	601.8
47.5°	568.5	562.8	557.3	553.4	555.2	554.7	556.3	560.0	560.9	562.3	565.6
50°	541.4	536.1	529.7	528.5	528.5	528.5	529.1	533.7	533.7	536.1	538.5
52.5°	511.3	508.0	503.9	501.8	500.8	500.8	503.3	505.7	506.6	509.9	512.2
55°	467.0	463.5	459.9	458.1	457.0	458.1	462.9	464.0	467.0	468.7	470.5
57.5°	420.7	418.0	415.2	414.2	414.0	415.5	418.1	421.6	422.3	427.7	430.4
60°	390.2	386.1	383.7	383.7	382.6	387.9	386.7	392.5	393.7	397.3	401.3
62.5°	358.8	353.3	352.3	352.3	354.0	355.5	357.1	359.7	362.8	367.2	370.4
65°	308.2	305.2	309.4	308.8	307.6	311.1	311.1	314.0	317.5	321.7	328.1
67.5°	260.3	258.7	259.1	259.1	260.9	262.9	264.5	267.1	271.3	275.6	279.8
70°	227.9	229.7	226.8	229.1	230.8	231.4	232.6	236.1	240.8	243.7	248.4
72.5°	196.5	196.4	196.7	197.7	199.4	200.5	201.6	205.7	210.8	213.3	217.1
75°	151.2	150.6	152.3	152.3	155.2	156.4	157.6	159.4	164.0	167.6	170.5
77.5°	110.4	111.1	110.7	112.7	111.9	112.1	115.8	117.5	118.0	124.9	126.5
80°	83.2	84.4	85.0	85.6	86.1	85.0	89.0	90.8	90.8	94.9	97.8
82.5°	59.8	60.4	62.0	62.6	62.7	63.9	64.2	65.5	66.9	68.7	72.5
85°	29.9	31.6	32.2	31.6	32.2	31.1	32.8	33.4	34.0	34.0	34.0
87.5°	11.1	12.0	12.0	13.0	13.0	13.9	14.1	13.3	13.5	15.1	13.3
90°	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1	22.9	23.7	24.3
92.5°	26.0	27.4	28.8	30.1	31.6	33.0	33.6	34.3	34.9	35.5	35.6
95°	56.1	57.5	59.0	60.5	62.1	63.6	64.4	65.1	65.9	66.6	67.1
97.5°	94.0	95.1	96.2	97.3	98.4	99.5	100.4	101.3	102.2	103.1	103.4
100°	121.5	122.5	123.5	124.4	125.4	126.3	126.9	127.5	128.0	128.6	129.2
102.5°	150.6	151.5	152.8	154.0	155.3	156.6	157.1	157.7	158.3	158.9	159.1
105°	194.9	196.0	197.7	199.4	201.1	202.9	202.9	202.9	202.9	202.9	203.0
107.5°	247.3	247.7	248.4	249.1	249.8	250.5	251.1	251.7	252.3	252.9	253.0
110°	280.9	281.2	281.6	282.0	282.4	282.8	283.5	284.3	285.1	285.9	286.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	314.6	314.8	314.9	315.0	315.0	315.0	316.0	316.9	317.8	318.7	319.2
115°	367.6	367.6	367.3	366.9	366.5	366.1	366.4	366.5	366.7	366.9	366.9
117.5°	418.7	418.6	418.2	417.7	417.2	416.6	416.6	416.6	416.6	416.6	416.2
120°	454.1	454.2	453.2	452.3	451.3	450.4	450.1	450.0	449.8	449.6	449.3
122.5°	486.6	486.7	486.2	485.7	485.3	484.7	484.2	483.7	483.3	482.8	482.2
125°	536.8	537.0	536.6	536.2	535.8	535.5	534.7	533.9	533.1	532.4	531.6
127.5°	586.9	587.3	586.9	586.5	586.1	585.7	584.5	583.5	582.5	581.3	580.4
130°	619.7	620.3	619.7	619.1	618.5	617.9	617.2	616.4	615.6	614.9	613.8
132.5°	651.4	651.9	651.5	651.1	650.7	650.2	649.4	648.4	647.6	646.6	645.7
135°	698.2	698.6	698.4	698.3	698.1	697.8	697.2	696.4	695.6	694.8	694.2
137.5°	742.1	742.8	743.3	743.8	744.3	744.8	744.0	743.2	742.4	741.6	740.8
140°	773.0	773.6	773.8	774.0	774.2	774.4	774.2	774.0	773.8	773.6	772.8
142.5°	801.2	801.8	802.2	802.5	802.9	803.2	803.1	802.9	802.7	802.5	801.8
145°	842.9	843.4	844.0	844.6	845.2	845.7	845.5	845.3	845.2	844.9	844.5
147.5°	882.7	883.3	883.8	884.3	884.8	885.5	885.5	885.5	885.5	885.5	884.8
150°	908.3	908.6	909.0	909.4	909.8	910.2	910.2	910.2	910.2	910.2	909.6
152.5°	930.8	931.3	931.5	931.7	931.9	932.2	932.5	932.8	933.1	933.4	933.1
155°	963.5	963.5	963.7	963.9	964.1	964.3	965.1	965.9	966.6	967.3	967.1
157.5°	992.1	992.0	992.2	992.4	992.6	992.6	993.5	994.3	995.1	995.9	995.7
160°	1010.0	1009.9	1009.9	1009.9	1009.9	1009.9	1010.8	1011.8	1012.7	1013.7	1013.7
162.5°	1026.0	1025.8	1025.9	1026.1	1026.2	1026.4	1027.3	1028.3	1029.2	1030.2	1030.0
165°	1047.1	1046.8	1046.8	1046.8	1046.8	1046.8	1047.9	1049.1	1050.2	1051.4	1051.3
167.5°	1063.3	1063.1	1063.2	1063.3	1063.5	1063.7	1064.9	1066.0	1067.2	1068.4	1068.4
170°	1073.0	1072.6	1072.6	1072.6	1072.6	1072.6	1073.9	1075.3	1076.6	1078.0	1078.0
172.5°	1080.6	1080.1	1080.1	1080.1	1080.1	1080.1	1081.3	1082.5	1083.7	1084.9	1084.9
175°	1088.5	1088.0	1088.0	1088.0	1088.0	1088.0	1089.3	1090.4	1091.5	1092.7	1092.5
177.5°	1092.4	1092.0	1092.0	1092.0	1092.0	1092.0	1093.0	1093.9	1094.8	1095.7	1095.6
180°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1



TEST NUMBER: P332028-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1156.3	1155.9	1159.2	1156.8	1159.2	1155.9	1156.3	1159.6	1160.5	1161.1	1161.1
5°	1076.3	1078.1	1072.2	1072.2	1072.2	1078.1	1076.3	1079.8	1082.7	1085.1	1088.6
7.5°	1005.0	1002.5	1002.7	999.5	1002.7	1002.5	1005.0	1007.9	1011.6	1016.8	1021.6
10°	961.5	957.9	956.7	957.3	956.7	957.9	961.5	968.5	970.9	975.5	980.8
12.5°	925.4	924.7	917.0	917.1	917.0	924.7	925.4	927.2	932.4	942.3	948.5
15°	883.0	871.8	870.6	874.2	870.6	871.8	883.0	883.0	885.3	892.9	896.5
17.5°	840.4	834.6	834.9	833.2	834.9	834.6	840.4	841.4	843.3	849.5	854.1
20°	817.9	814.4	813.8	809.7	813.8	814.4	817.9	817.9	820.3	823.2	827.9
22.5°	797.3	796.2	796.5	791.9	796.5	796.2	797.3	798.7	801.1	803.1	806.3
25°	771.6	774.6	772.2	772.2	772.2	774.6	771.6	772.2	772.8	775.8	778.1
27.5°	754.3	754.1	753.0	753.0	753.0	754.1	754.3	752.9	752.2	751.1	750.6
30°	741.1	740.5	741.8	741.8	741.8	740.5	741.1	738.8	737.6	737.1	734.7
32.5°	728.1	728.8	729.1	729.5	729.1	728.8	728.1	725.2	723.2	721.6	719.7
35°	707.7	708.3	710.2	708.9	710.2	708.3	707.7	704.3	701.9	698.4	695.4
37.5°	680.4	683.0	682.4	683.4	682.4	683.0	680.4	679.3	676.9	674.2	670.9
40°	659.7	661.5	660.9	660.9	660.9	661.5	659.7	659.2	656.8	655.0	652.1
42.5°	638.6	639.9	638.4	637.5	638.4	639.9	638.6	637.6	636.2	633.0	629.6
45°	604.1	602.9	604.7	602.3	604.7	602.9	604.1	601.8	601.2	598.8	595.9
47.5°	565.4	566.5	567.1	568.8	567.1	566.5	565.4	565.6	562.3	560.9	560.0
50°	539.6	543.1	543.1	542.5	543.1	543.1	539.6	538.5	536.1	533.7	533.7
52.5°	514.3	515.9	518.3	518.1	518.3	515.9	514.3	512.2	509.9	506.6	505.7
55°	475.2	476.3	477.5	478.1	477.5	476.3	475.2	470.5	468.7	467.0	464.0
57.5°	434.6	434.1	437.0	437.8	437.0	434.1	434.6	430.4	427.7	422.3	421.6
60°	406.0	406.0	410.7	412.5	410.7	406.0	406.0	401.3	397.3	393.7	392.5
62.5°	375.6	377.5	382.1	379.7	382.1	377.5	375.6	370.4	367.2	362.8	359.7
65°	331.1	335.7	335.1	337.5	335.1	335.7	331.1	328.1	321.7	317.5	314.0
67.5°	284.5	287.4	291.6	292.1	291.6	287.4	284.5	279.8	275.6	271.3	267.1
70°	253.1	256.1	258.4	260.1	258.4	256.1	253.1	248.4	243.7	240.8	236.1
72.5°	222.7	224.2	229.8	227.3	229.8	224.2	222.7	217.1	213.3	210.8	205.7
75°	174.6	178.7	182.2	180.5	182.2	178.7	174.6	170.5	167.6	164.0	159.4
77.5°	129.2	133.2	134.8	133.4	134.8	133.2	129.2	126.5	124.9	118.0	117.5
80°	101.9	101.3	104.9	104.3	104.9	101.3	101.9	97.8	94.9	90.8	90.8
82.5°	74.7	74.2	75.9	76.2	75.9	74.2	74.7	72.5	68.7	66.9	65.5
85°	36.3	38.1	35.7	35.1	35.7	38.1	36.3	34.0	34.0	34.0	33.4
87.5°	13.3	13.4	13.1	12.7	13.1	13.4	13.3	13.3	15.1	13.5	13.3
90°	24.6	25.1	25.4	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1
92.5°	35.4	35.2	35.0	34.7	35.0	35.2	35.4	35.6	35.5	34.9	34.3
95°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	66.6	65.9	65.1
97.5°	103.4	103.3	103.2	103.1	103.2	103.3	103.4	103.4	103.1	102.2	101.3
100°	129.5	129.8	130.3	130.6	130.3	129.8	129.5	129.2	128.6	128.0	127.5
102.5°	159.0	158.9	158.9	158.9	158.9	158.9	159.0	159.1	158.9	158.3	157.7
105°	203.4	203.8	204.1	204.6	204.1	203.8	203.4	203.0	202.9	202.9	202.9
107.5°	252.9	252.6	252.4	252.2	252.4	252.6	252.9	253.0	252.9	252.3	251.7
110°	285.6	285.2	284.9	284.5	284.9	285.2	285.6	286.0	285.9	285.1	284.3



TEST NUMBER: P332028-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	319.1	319.0	318.9	318.8	318.9	319.0	319.1	319.2	318.7	317.8	316.9
115°	366.7	366.5	366.4	366.1	366.4	366.5	366.7	366.9	366.9	366.7	366.5
117.5°	415.7	415.2	414.7	414.1	414.7	415.2	415.7	416.2	416.6	416.6	416.6
120°	448.9	448.6	448.2	447.8	448.2	448.6	448.9	449.3	449.6	449.8	450.0
122.5°	481.7	481.1	480.6	480.1	480.6	481.1	481.7	482.2	482.8	483.3	483.7
125°	530.9	530.1	529.3	528.6	529.3	530.1	530.9	531.6	532.4	533.1	533.9
127.5°	579.5	578.6	577.7	576.9	577.7	578.6	579.5	580.4	581.3	582.5	583.5
130°	612.5	611.1	609.8	608.5	609.8	611.1	612.5	613.8	614.9	615.6	616.4
132.5°	644.6	643.6	642.6	641.5	642.6	643.6	644.6	645.7	646.6	647.6	648.4
135°	693.9	693.4	693.1	692.8	693.1	693.4	693.9	694.2	694.8	695.6	696.4
137.5°	740.1	739.3	738.7	738.0	738.7	739.3	740.1	740.8	741.6	742.4	743.2
140°	771.5	770.2	768.9	767.5	768.9	770.2	771.5	772.8	773.6	773.8	774.0
142.5°	800.8	799.8	798.7	797.7	798.7	799.8	800.8	801.8	802.5	802.7	802.9
145°	843.7	842.9	842.1	841.4	842.1	842.9	843.7	844.5	844.9	845.2	845.3
147.5°	883.7	882.5	881.4	880.3	881.4	882.5	883.7	884.8	885.5	885.5	885.5
150°	908.4	907.3	906.1	905.0	906.1	907.3	908.4	909.6	910.2	910.2	910.2
152.5°	932.0	931.1	930.1	929.1	930.1	931.1	932.0	933.1	933.4	933.1	932.8
155°	965.8	964.4	963.0	961.7	963.0	964.4	965.8	967.1	967.3	966.6	965.9
157.5°	994.7	993.6	992.6	991.4	992.6	993.6	994.7	995.7	995.9	995.1	994.3
160°	1013.1	1012.3	1011.5	1010.7	1011.5	1012.3	1013.1	1013.7	1013.7	1012.7	1011.8
162.5°	1028.8	1027.6	1026.4	1025.2	1026.4	1027.6	1028.8	1030.0	1030.2	1029.2	1028.3
165°	1050.0	1048.6	1047.3	1045.9	1047.3	1048.6	1050.0	1051.3	1051.4	1050.2	1049.1
167.5°	1067.2	1066.0	1064.9	1063.7	1064.9	1066.0	1067.2	1068.4	1068.4	1067.2	1066.0
170°	1076.6	1075.3	1073.9	1072.6	1073.9	1075.3	1076.6	1078.0	1078.0	1076.6	1075.3
172.5°	1083.5	1082.2	1080.8	1079.4	1080.8	1082.2	1083.5	1084.9	1084.9	1083.7	1082.5
175°	1091.2	1089.9	1088.6	1087.2	1088.6	1089.9	1091.2	1092.5	1092.7	1091.5	1090.4
177.5°	1094.6	1093.5	1092.4	1091.3	1092.4	1093.5	1094.6	1095.6	1095.7	1094.8	1093.9
180°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1



TEST NUMBER: P332028-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1159.6	1159.6	1168.5	1174.1	1181.2	1185.9	1189.1	1192.4	1198.1	1205.6	1214.0
5°	1093.3	1095.6	1108.5	1121.5	1133.8	1144.3	1153.1	1163.6	1176.5	1192.3	1209.9
7.5°	1029.1	1038.1	1051.1	1066.8	1084.0	1099.4	1115.0	1132.3	1150.5	1173.8	1198.4
10°	987.8	997.8	1013.6	1033.5	1051.7	1069.9	1089.2	1107.9	1130.8	1158.3	1190.0
12.5°	951.7	961.2	977.5	999.3	1016.6	1036.6	1058.7	1083.1	1108.8	1141.9	1177.8
15°	901.7	912.8	932.7	943.3	969.7	993.7	1014.2	1049.4	1082.2	1116.1	1157.8
17.5°	860.7	866.9	883.0	902.7	922.3	949.3	976.1	1005.4	1038.1	1079.7	1131.7
20°	832.6	837.8	855.4	875.9	897.0	921.6	945.6	974.9	1011.8	1055.8	1112.1
22.5°	811.5	817.2	828.7	850.6	870.3	890.7	914.7	949.6	988.9	1031.9	1092.9
25°	781.0	784.5	792.1	809.7	827.3	850.2	871.2	904.0	944.5	994.9	1055.8
27.5°	752.1	755.4	761.8	774.5	790.8	809.3	832.3	860.2	901.2	956.0	1020.6
30°	734.7	735.3	741.1	752.9	767.0	782.2	803.3	834.9	873.6	929.3	997.2
32.5°	719.7	717.5	721.5	730.4	744.0	759.2	776.5	807.7	845.0	899.7	969.6
35°	694.3	693.1	691.4	699.0	710.7	722.4	737.6	761.1	803.3	854.3	927.5
37.5°	668.4	665.6	662.5	665.9	675.1	687.3	700.5	721.3	757.7	813.8	883.9
40°	649.2	646.9	645.1	643.9	652.1	663.8	673.8	693.7	727.7	781.0	850.2
42.5°	628.1	626.7	624.5	622.8	629.6	638.5	648.9	666.5	700.5	750.5	816.0
45°	594.1	593.0	591.8	590.6	594.7	602.9	611.1	624.0	653.2	701.9	761.1
47.5°	556.3	554.7	555.2	553.4	557.3	562.8	568.5	582.4	610.5	649.8	693.0
50°	529.1	528.5	528.5	528.5	529.7	536.1	541.4	551.9	577.7	617.0	648.0
52.5°	503.3	500.8	500.8	501.8	503.9	508.0	511.3	522.9	545.4	577.6	605.8
55°	462.9	458.1	457.0	458.1	459.9	463.5	467.0	476.3	495.7	519.7	536.1
57.5°	418.1	415.5	414.0	414.2	415.2	418.0	420.7	430.8	446.1	458.7	469.2
60°	386.7	387.9	382.6	383.7	383.7	386.1	390.2	396.7	409.6	418.4	428.9
62.5°	357.1	355.5	354.0	352.3	352.3	353.3	358.8	363.9	374.9	379.4	387.6
65°	311.1	311.1	307.6	308.8	309.4	305.2	308.2	314.0	321.1	322.9	330.5
67.5°	264.5	262.9	260.9	259.1	259.1	258.7	260.3	263.2	268.5	269.1	274.9
70°	232.6	231.4	230.8	229.1	226.8	229.7	227.9	230.8	233.8	234.4	237.9
72.5°	201.6	200.5	199.4	197.7	196.7	196.4	196.5	199.9	201.9	201.0	205.1
75°	157.6	156.4	155.2	152.3	152.3	150.6	151.2	153.5	155.8	154.1	157.6
77.5°	115.8	112.1	111.9	112.7	110.7	111.1	110.4	110.0	111.1	111.2	114.3
80°	89.0	85.0	86.1	85.6	85.0	84.4	83.2	83.8	84.4	85.0	86.7
82.5°	64.2	63.9	62.7	62.6	62.0	60.4	59.8	60.8	61.4	61.0	62.3
85°	32.8	31.1	32.2	31.6	32.2	31.6	29.9	29.9	31.1	30.5	31.6
87.5°	14.1	13.9	13.0	13.0	12.0	12.0	11.1	11.2	11.3	10.8	11.5
90°	21.4	20.7	18.2	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9
92.5°	33.6	33.0	31.6	30.1	28.8	27.4	26.0	24.7	23.4	22.1	20.8
95°	64.4	63.6	62.1	60.5	59.0	57.5	56.1	54.8	53.4	52.0	50.7
97.5°	100.4	99.5	98.4	97.3	96.2	95.1	94.0	93.1	92.0	91.1	90.1
100°	126.9	126.3	125.4	124.4	123.5	122.5	121.5	120.3	119.2	118.0	116.9
102.5°	157.1	156.6	155.3	154.0	152.8	151.5	150.6	149.9	149.2	148.5	147.8
105°	202.9	202.9	201.1	199.4	197.7	196.0	194.9	194.5	194.2	193.7	193.4
107.5°	251.1	250.5	249.8	249.1	248.4	247.7	247.3	247.0	246.8	246.6	246.3
110°	283.5	282.8	282.4	282.0	281.6	281.2	280.9	280.4	280.1	279.7	279.3



TEST NUMBER: P332028-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	316.0	315.0	315.0	315.0	314.9	314.8	314.6	314.4	314.2	313.9	313.7
115°	366.4	366.1	366.5	366.9	367.3	367.6	367.6	367.0	366.4	365.8	365.2
117.5°	416.6	416.6	417.2	417.7	418.2	418.6	418.7	418.4	417.9	417.6	417.2
120°	450.1	450.4	451.3	452.3	453.2	454.2	454.1	453.0	451.8	450.6	449.5
122.5°	484.2	484.7	485.3	485.7	486.2	486.7	486.6	485.7	484.8	484.1	483.2
125°	534.7	535.5	535.8	536.2	536.6	537.0	536.8	536.3	535.7	535.2	534.6
127.5°	584.5	585.7	586.1	586.5	586.9	587.3	586.9	585.7	584.4	583.2	582.0
130°	617.2	617.9	618.5	619.1	619.7	620.3	619.7	618.2	616.7	615.2	613.6
132.5°	649.4	650.2	650.7	651.1	651.5	651.9	651.4	649.9	648.3	646.8	645.3
135°	697.2	697.8	698.1	698.3	698.4	698.6	698.2	697.0	695.9	694.7	693.6
137.5°	744.0	744.8	744.3	743.8	743.3	742.8	742.1	741.1	740.2	739.3	738.3
140°	774.2	774.4	774.2	774.0	773.8	773.6	773.0	772.1	771.1	770.2	769.2
142.5°	803.1	803.2	802.9	802.5	802.2	801.8	801.2	800.3	799.4	798.3	797.4
145°	845.5	845.7	845.2	844.6	844.0	843.4	842.9	842.6	842.1	841.8	841.4
147.5°	885.5	885.5	884.8	884.3	883.8	883.3	882.7	882.0	881.3	880.6	879.9
150°	910.2	910.2	909.8	909.4	909.0	908.6	908.3	907.8	907.5	907.1	906.7
152.5°	932.5	932.2	931.9	931.7	931.5	931.3	930.8	930.3	929.8	929.3	928.8
155°	965.1	964.3	964.1	963.9	963.7	963.5	963.5	963.5	963.5	963.5	963.5
157.5°	993.5	992.6	992.6	992.4	992.2	992.0	992.1	992.3	992.6	992.8	993.0
160°	1010.8	1009.9	1009.9	1009.9	1009.9	1009.9	1010.0	1010.5	1010.8	1011.2	1011.6
162.5°	1027.3	1026.4	1026.2	1026.1	1025.9	1025.8	1026.0	1026.5	1027.0	1027.5	1028.1
165°	1047.9	1046.8	1046.8	1046.8	1046.8	1046.8	1047.1	1047.7	1048.3	1048.8	1049.4
167.5°	1064.9	1063.7	1063.5	1063.3	1063.2	1063.1	1063.3	1064.1	1064.9	1065.7	1066.4
170°	1073.9	1072.6	1072.6	1072.6	1072.6	1072.6	1073.0	1073.8	1074.5	1075.3	1076.1
172.5°	1081.3	1080.1	1080.1	1080.1	1080.1	1080.1	1080.6	1081.3	1082.1	1082.9	1083.6
175°	1089.3	1088.0	1088.0	1088.0	1088.0	1088.0	1088.5	1089.3	1089.9	1090.7	1091.5
177.5°	1093.0	1092.0	1092.0	1092.0	1092.0	1092.0	1092.4	1093.0	1093.6	1094.2	1094.8
180°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1216.8	1219.2	1227.1	1232.8	1239.3	1243.0	1246.8	1249.7	1253.4	1254.3	1267.9
5°	1222.2	1233.9	1254.4	1269.6	1288.4	1308.9	1322.9	1329.4	1346.4	1360.5	1388.6
7.5°	1220.6	1245.6	1276.6	1308.6	1343.2	1375.0	1402.7	1435.5	1458.8	1493.8	1528.4
10°	1219.3	1252.7	1292.5	1333.5	1381.6	1426.1	1465.9	1510.5	1547.4	1596.0	1637.6
12.5°	1215.0	1255.5	1310.8	1359.3	1417.6	1479.0	1538.1	1595.3	1628.0	1709.0	1747.3
15°	1204.6	1252.7	1321.8	1395.6	1475.9	1548.5	1623.5	1683.3	1779.9	1850.9	1896.0
17.5°	1184.7	1252.0	1333.9	1423.1	1520.6	1616.4	1701.3	1792.1	1894.5	1980.4	2071.7
20°	1175.4	1249.1	1340.6	1439.0	1540.3	1648.7	1745.4	1854.4	1966.3	2050.6	2167.8
22.5°	1158.0	1241.6	1340.1	1449.8	1558.2	1670.3	1783.4	1893.3	2022.6	2138.8	2250.3
25°	1129.6	1223.4	1325.3	1447.8	1574.9	1687.4	1822.7	1968.7	2103.4	2252.8	2364.1
27.5°	1099.8	1199.9	1302.1	1416.0	1552.7	1686.3	1856.5	2021.4	2186.1	2315.1	2397.5
30°	1076.9	1174.1	1279.6	1394.5	1529.8	1688.6	1879.0	2058.8	2219.4	2330.1	2376.4
32.5°	1052.1	1150.7	1244.0	1364.4	1508.7	1687.1	1893.1	2080.9	2221.3	2295.0	2286.0
35°	1013.1	1095.6	1186.5	1302.4	1472.4	1676.9	1901.3	2082.8	2169.0	2153.2	2033.7
37.5°	956.7	1026.2	1115.7	1242.7	1430.2	1655.2	1884.8	2021.1	2015.5	1886.7	1713.6
40°	921.6	980.8	1067.0	1200.5	1397.4	1641.2	1859.1	1947.6	1872.6	1692.6	1485.2
42.5°	875.7	930.1	1016.3	1153.7	1361.3	1612.5	1809.8	1835.5	1688.8	1481.8	1291.7
45°	804.4	852.5	941.5	1083.3	1307.2	1550.3	1689.7	1627.0	1429.6	1215.7	1071.0
47.5°	727.9	777.8	863.5	1009.2	1228.9	1456.6	1523.1	1389.7	1187.1	1013.6	880.7
50°	679.7	727.7	811.5	958.6	1175.9	1379.8	1407.3	1235.1	1048.8	896.5	787.5
52.5°	630.9	676.1	758.5	906.0	1114.0	1290.7	1273.8	1098.2	926.9	797.0	711.5
55°	558.4	601.2	679.7	817.9	1007.2	1147.2	1085.7	918.1	776.4	675.5	610.5
57.5°	493.4	534.4	602.2	727.1	891.7	987.8	909.6	768.4	655.7	578.1	529.5
60°	449.4	485.7	550.2	666.2	809.2	882.4	805.0	680.3	585.3	523.2	479.8
62.5°	407.7	439.3	499.0	604.3	728.5	790.1	711.8	606.1	525.3	470.3	433.4
65°	344.5	373.2	425.9	508.0	609.9	650.9	583.6	498.0	435.3	394.3	369.7
67.5°	286.9	311.3	356.8	421.4	496.4	526.2	474.9	408.7	361.5	328.6	309.0
70°	248.4	269.5	305.2	360.9	428.9	451.8	403.7	349.2	314.6	288.3	270.1
72.5°	216.1	231.5	264.0	307.0	363.7	381.9	348.4	300.5	268.2	248.4	234.0
75°	164.6	177.5	198.6	233.2	272.4	283.0	257.8	227.9	206.2	192.2	181.1
77.5°	118.7	128.2	143.4	164.8	191.9	201.5	185.5	165.6	149.7	140.3	134.1
80°	89.6	97.3	110.1	127.7	144.1	149.4	140.0	124.8	113.7	108.4	103.1
82.5°	66.2	70.5	78.3	90.2	101.5	107.7	99.7	90.6	84.6	79.8	77.8
85°	33.4	35.7	39.3	43.9	51.0	53.3	50.4	48.0	44.5	41.6	41.6
87.5°	12.7	13.1	14.9	16.3	18.5	20.4	20.5	20.1	20.1	19.7	19.5
90°	2.8	4.6	6.6	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1
92.5°	22.1	23.4	24.7	26.0	27.4	28.8	30.1	31.6	33.0	33.6	34.3
95°	52.0	53.4	54.8	56.1	57.5	59.0	60.5	62.1	63.6	64.4	65.1
97.5°	91.1	92.0	93.1	94.0	95.1	96.2	97.3	98.4	99.5	100.4	101.3
100°	118.0	119.2	120.3	121.5	122.5	123.5	124.4	125.4	126.3	126.9	127.5
102.5°	148.5	149.2	149.9	150.6	151.5	152.8	154.0	155.3	156.6	157.1	157.7
105°	193.7	194.2	194.5	194.9	196.0	197.7	199.4	201.1	202.9	202.9	202.9
107.5°	246.6	246.8	247.0	247.3	247.7	248.4	249.1	249.8	250.5	251.1	251.7
110°	279.7	280.1	280.4	280.9	281.2	281.6	282.0	282.4	282.8	283.5	284.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	313.9	314.2	314.4	314.6	314.8	314.9	315.0	315.0	315.0	316.0	316.9
115°	365.8	366.4	367.0	367.6	367.6	367.3	366.9	366.5	366.1	366.4	366.5
117.5°	417.6	417.9	418.4	418.7	418.6	418.2	417.7	417.2	416.6	416.6	416.6
120°	450.6	451.8	453.0	454.1	454.2	453.2	452.3	451.3	450.4	450.1	450.0
122.5°	484.1	484.8	485.7	486.6	486.7	486.2	485.7	485.3	484.7	484.2	483.7
125°	535.2	535.7	536.3	536.8	537.0	536.6	536.2	535.8	535.5	534.7	533.9
127.5°	583.2	584.4	585.7	586.9	587.3	586.9	586.5	586.1	585.7	584.5	583.5
130°	615.2	616.7	618.2	619.7	620.3	619.7	619.1	618.5	617.9	617.2	616.4
132.5°	646.8	648.3	649.9	651.4	651.9	651.5	651.1	650.7	650.2	649.4	648.4
135°	694.7	695.9	697.0	698.2	698.6	698.4	698.3	698.1	697.8	697.2	696.4
137.5°	739.3	740.2	741.1	742.1	742.8	743.3	743.8	744.3	744.8	744.0	743.2
140°	770.2	771.1	772.1	773.0	773.6	773.8	774.0	774.2	774.4	774.2	774.0
142.5°	798.3	799.4	800.3	801.2	801.8	802.2	802.5	802.9	803.2	803.1	802.9
145°	841.8	842.1	842.6	842.9	843.4	844.0	844.6	845.2	845.7	845.5	845.3
147.5°	880.6	881.3	882.0	882.7	883.3	883.8	884.3	884.8	885.5	885.5	885.5
150°	907.1	907.5	907.8	908.3	908.6	909.0	909.4	909.8	910.2	910.2	910.2
152.5°	929.3	929.8	930.3	930.8	931.3	931.5	931.7	931.9	932.2	932.5	932.8
155°	963.5	963.5	963.5	963.5	963.5	963.7	963.9	964.1	964.3	965.1	965.9
157.5°	992.8	992.6	992.3	992.1	992.0	992.2	992.4	992.6	992.6	993.5	994.3
160°	1011.2	1010.8	1010.5	1010.0	1009.9	1009.9	1009.9	1009.9	1009.9	1010.8	1011.8
162.5°	1027.5	1027.0	1026.5	1026.0	1025.8	1025.9	1026.1	1026.2	1026.4	1027.3	1028.3
165°	1048.8	1048.3	1047.7	1047.1	1046.8	1046.8	1046.8	1046.8	1046.8	1047.9	1049.1
167.5°	1065.7	1064.9	1064.1	1063.3	1063.1	1063.2	1063.3	1063.5	1063.7	1064.9	1066.0
170°	1075.3	1074.5	1073.8	1073.0	1072.6	1072.6	1072.6	1072.6	1072.6	1073.9	1075.3
172.5°	1082.9	1082.1	1081.3	1080.6	1080.1	1080.1	1080.1	1080.1	1080.1	1081.3	1082.5
175°	1090.7	1089.9	1089.3	1088.5	1088.0	1088.0	1088.0	1088.0	1088.0	1089.3	1090.4
177.5°	1094.2	1093.6	1093.0	1092.4	1092.0	1092.0	1092.0	1092.0	1092.0	1093.0	1093.9
180°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1272.6	1273.1	1278.2	1281.9	1280.0	1282.5	1283.3
5°	1390.3	1411.4	1422.5	1430.8	1431.3	1431.9	1436.7
7.5°	1557.3	1579.9	1596.5	1621.5	1629.0	1637.6	1635.1
10°	1679.2	1712.6	1741.3	1756.5	1773.0	1797.0	1777.6
12.5°	1793.1	1852.3	1896.0	1919.7	1935.1	1939.9	1930.4
15°	1980.9	2058.3	2099.9	2098.7	2151.5	2174.3	2138.6
17.5°	2153.2	2224.6	2281.7	2311.0	2355.0	2364.7	2360.3
20°	2258.7	2336.6	2381.1	2431.5	2454.4	2474.9	2478.4
22.5°	2349.6	2419.6	2467.4	2509.3	2528.4	2538.1	2544.0
25°	2443.2	2498.3	2527.0	2541.7	2546.9	2545.7	2538.1
27.5°	2436.8	2441.0	2409.3	2378.3	2350.5	2319.3	2308.4
30°	2373.5	2324.3	2236.4	2186.6	2113.3	2055.4	2078.8
32.5°	2207.1	2109.1	2010.4	1901.6	1811.5	1785.8	1760.1
35°	1883.7	1711.4	1610.7	1493.5	1446.6	1399.7	1367.5
37.5°	1524.0	1390.7	1271.2	1194.6	1147.5	1117.9	1102.0
40°	1317.7	1197.6	1099.2	1037.1	1001.3	967.9	963.2
42.5°	1153.1	1041.5	967.4	918.0	883.6	869.4	859.2
45°	944.5	866.5	816.7	781.6	758.7	749.9	738.2
47.5°	799.4	744.3	707.0	683.0	665.8	659.3	658.3
50°	718.3	672.6	645.1	626.3	612.9	610.5	601.2
52.5°	657.4	617.8	596.3	580.0	570.2	563.6	560.9
55°	570.7	544.3	525.0	515.6	508.0	501.5	501.5
57.5°	499.3	477.3	464.5	456.5	454.2	449.6	446.7
60°	455.2	436.5	426.5	419.5	414.8	415.4	410.1
62.5°	412.2	399.9	390.5	383.4	377.8	377.9	378.2
65°	350.9	341.6	334.6	332.2	328.7	324.6	325.8
67.5°	297.4	288.6	283.1	279.1	277.9	275.7	279.1
70°	259.0	252.5	248.4	244.9	243.7	244.4	247.3
72.5°	223.8	219.2	216.5	214.9	212.3	212.4	214.5
75°	175.7	172.3	169.9	168.2	167.6	167.6	167.6
77.5°	129.2	128.3	127.3	124.7	124.8	125.5	125.6
80°	101.9	100.2	99.6	98.4	96.7	95.5	98.4
82.5°	76.2	74.4	73.8	73.6	70.9	70.7	73.1
85°	41.0	39.3	39.9	39.3	39.3	38.7	38.7
87.5°	19.1	18.8	18.4	19.0	18.6	18.2	19.2
90°	22.9	23.7	24.3	24.6	25.1	25.4	25.7
92.5°	34.9	35.5	35.6	35.4	35.2	35.0	34.7
95°	65.9	66.6	67.1	67.1	67.1	67.1	67.1
97.5°	102.2	103.1	103.4	103.4	103.3	103.2	103.1
100°	128.0	128.6	129.2	129.5	129.8	130.3	130.6
102.5°	158.3	158.9	159.1	159.0	158.9	158.9	158.9
105°	202.9	202.9	203.0	203.4	203.8	204.1	204.6
107.5°	252.3	252.9	253.0	252.9	252.6	252.4	252.2
110°	285.1	285.9	286.0	285.6	285.2	284.9	284.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	317.8	318.7	319.2	319.1	319.0	318.9	318.8
115°	366.7	366.9	366.9	366.7	366.5	366.4	366.1
117.5°	416.6	416.6	416.2	415.7	415.2	414.7	414.1
120°	449.8	449.6	449.3	448.9	448.6	448.2	447.8
122.5°	483.3	482.8	482.2	481.7	481.1	480.6	480.1
125°	533.1	532.4	531.6	530.9	530.1	529.3	528.6
127.5°	582.5	581.3	580.4	579.5	578.6	577.7	576.9
130°	615.6	614.9	613.8	612.5	611.1	609.8	608.5
132.5°	647.6	646.6	645.7	644.6	643.6	642.6	641.5
135°	695.6	694.8	694.2	693.9	693.4	693.1	692.8
137.5°	742.4	741.6	740.8	740.1	739.3	738.7	738.0
140°	773.8	773.6	772.8	771.5	770.2	768.9	767.5
142.5°	802.7	802.5	801.8	800.8	799.8	798.7	797.7
145°	845.2	844.9	844.5	843.7	842.9	842.1	841.4
147.5°	885.5	885.5	884.8	883.7	882.5	881.4	880.3
150°	910.2	910.2	909.6	908.4	907.3	906.1	905.0
152.5°	933.1	933.4	933.1	932.0	931.1	930.1	929.1
155°	966.6	967.3	967.1	965.8	964.4	963.0	961.7
157.5°	995.1	995.9	995.7	994.7	993.6	992.6	991.4
160°	1012.7	1013.7	1013.7	1013.1	1012.3	1011.5	1010.7
162.5°	1029.2	1030.2	1030.0	1028.8	1027.6	1026.4	1025.2
165°	1050.2	1051.4	1051.3	1050.0	1048.6	1047.3	1045.9
167.5°	1067.2	1068.4	1068.4	1067.2	1066.0	1064.9	1063.7
170°	1076.6	1078.0	1078.0	1076.6	1075.3	1073.9	1072.6
172.5°	1083.7	1084.9	1084.9	1083.5	1082.2	1080.8	1079.4
175°	1091.5	1092.7	1092.5	1091.2	1089.9	1088.6	1087.2
177.5°	1094.8	1095.7	1095.6	1094.6	1093.5	1092.4	1091.3
180°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1

(END OF REPORT)