

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: P332458-927

Luminaire Tested: **S123RDIW-S1000D1030U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332458-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1000D1030U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6404.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

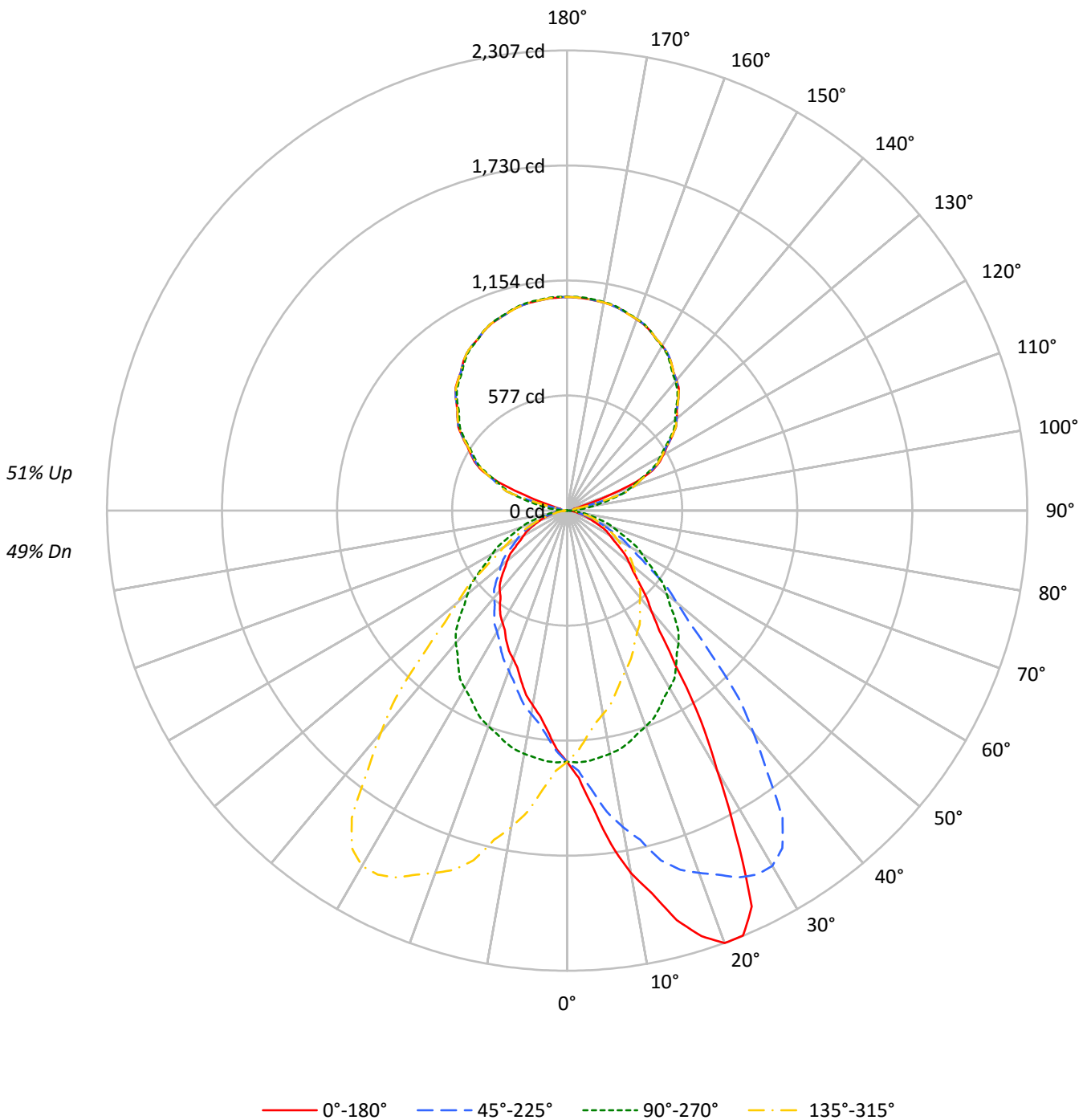
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69	61	60	58	50	49	48	42
2	90	83	77	72	83	77	72	67	65	61	58	54	52	49	44	43	41	36
3	82	73	66	61	76	68	62	57	58	53	50	49	45	42	40	38	36	32
4	76	65	58	52	69	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	58	50	45	64	54	47	42	47	41	37	39	35	32	33	30	27	24
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	24	22
7	59	48	40	34	55	44	37	33	38	33	29	33	28	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	23	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13555	13555	13555	13555
5°	16159	13613	11988	13613
10°	20176	13535	10831	13535
15°	23682	13397	9877	13397
20°	26431	13190	9065	13190
25°	26008	12973	8568	12973
30°	18695	12771	8054	12771
35°	12482	12510	7721	12510
40°	9197	12197	7378	12197
45°	7715	11645	7042	11645
50°	6807	10923	6571	10923
55°	5970	10098	5928	10098
60°	5315	9309	5431	9309
65°	4669	8458	5053	8458
70°	3666	7704	4614	7704
75°	3227	6729	4213	6729
80°	2808	5715	4147	5715
85°	2260	4594	4397	4594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.9
10°-20°	386.9	6.0
20°-30°	607.8	9.5
30°-40°	634.2	9.9
40°-50°	542.7	8.5
50°-60°	413.6	6.5
60°-70°	265.1	4.1
70°-80°	127.5	2.0
80°-90°	36.7	0.6
90°-100°	38.9	0.6
100°-110°	185.6	2.9
110°-120°	445.8	7.0
120°-130°	567.6	8.9
130°-140°	606.5	9.5
140°-150°	567.1	8.9
150°-160°	457.5	7.1
160°-170°	295.2	4.6
170°-180°	101.8	1.6
0°-30°	1118.6	17.5
0°-40°	1752.8	27.4
0°-60°	2709.1	42.3
0°-90°	3138.6	49.0
90°-120°	670.3	10.5
90°-150°	2411.5	37.7
90°-180°	3266.0	51.0
0°-180°	6404.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1496	1260	1110	1260	1496	154
15°	2125	1202	886	1202	2125	603
25°	2190	1092	721	1092	2190	941
35°	950	952	588	952	950	623
45°	507	765	463	765	507	398
55°	318	538	316	538	318	288
65°	183	332	198	332	183	180
75°	78	162	101	162	78	83
85°	18	37	36	37	18	22
90°	24	1	24	1	24	11
95°	30	49	30	49	30	25
105°	35	237	35	237	35	80
115°	468	445	468	445	468	432
125°	640	627	640	627	640	571
135°	788	780	788	780	788	608
145°	909	901	909	901	909	568
155°	991	992	991	992	991	457
165°	1044	1046	1044	1046	1044	295
175°	1067	1071	1067	1071	1067	102
180°	1071	1071	1071	1071	1071	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1341.3	1343.0	1337.4	1336.6	1330.1	1328.3	1328.3	1319.3	1313.7	1306.4	1302.0
5°	1495.5	1504.1	1499.8	1490.1	1473.9	1470.1	1459.9	1443.8	1425.4	1402.7	1391.9
7.5°	1688.1	1699.8	1695.3	1680.3	1663.3	1649.6	1620.8	1593.9	1556.3	1523.3	1495.1
10°	1845.9	1833.5	1823.8	1809.3	1793.6	1768.2	1738.0	1696.5	1648.6	1610.8	1568.8
12.5°	1964.1	1962.0	1949.7	1934.7	1912.6	1888.6	1851.5	1800.9	1745.2	1690.7	1642.5
15°	2125.2	2128.4	2120.3	2104.7	2073.4	2030.8	1974.8	1953.8	1873.9	1814.7	1755.3
17.5°	2236.6	2236.0	2234.9	2213.3	2181.4	2151.0	2099.0	2043.8	1971.5	1887.9	1808.1
20°	2307.4	2302.0	2303.0	2278.8	2255.1	2220.0	2169.4	2089.1	2029.7	1933.2	1850.8
22.5°	2305.6	2304.5	2308.7	2300.3	2283.1	2256.3	2216.4	2148.6	2072.8	1975.5	1882.7
25°	2189.8	2185.6	2210.9	2217.9	2245.4	2250.2	2238.4	2201.2	2129.5	2029.2	1914.4
27.5°	1832.7	1830.3	1877.4	1936.3	2010.9	2068.9	2124.9	2152.0	2129.5	2057.7	1942.6
30°	1504.1	1554.8	1578.5	1663.7	1758.6	1871.8	1970.9	2065.3	2088.5	2057.2	1962.9
32.5°	1248.8	1293.0	1312.8	1385.9	1474.3	1606.9	1755.8	1889.4	1983.7	2007.6	1950.8
35°	949.9	950.5	995.7	1028.1	1110.0	1246.4	1390.9	1569.9	1747.8	1882.5	1896.6
37.5°	758.0	760.7	788.1	820.3	881.8	953.9	1081.1	1229.9	1435.4	1642.4	1763.6
40°	654.5	659.3	679.9	711.6	755.8	810.2	909.5	1049.6	1221.1	1451.3	1639.4
42.5°	588.0	596.0	606.5	631.0	658.4	709.3	789.6	897.9	1053.8	1271.5	1488.5
45°	506.8	511.0	519.2	530.4	555.2	590.9	644.8	717.6	846.9	1022.2	1239.4
47.5°	447.0	444.7	453.3	462.5	479.0	503.2	539.3	598.7	691.0	831.6	1015.9
50°	406.5	405.9	411.9	418.9	434.5	452.3	482.0	526.7	600.0	716.4	885.2
52.5°	368.5	370.6	374.8	383.5	394.8	409.2	435.8	468.0	531.0	631.5	772.2
55°	318.1	319.7	325.6	330.5	338.6	353.1	369.8	396.8	439.9	510.0	625.9
57.5°	275.4	274.6	280.4	281.5	290.7	302.5	315.4	336.4	367.7	419.8	497.8
60°	246.9	245.3	250.2	253.9	258.8	268.5	279.2	299.8	324.6	362.8	429.7
62.5°	221.0	220.3	223.9	227.6	231.6	240.4	249.5	265.2	284.9	317.1	370.2
65°	183.3	184.9	186.6	188.1	190.3	195.7	204.3	215.1	228.5	251.2	289.5
67.5°	144.0	145.7	146.2	149.6	154.2	157.6	162.8	172.4	181.8	200.9	222.7
70°	116.5	115.9	116.5	118.0	124.0	129.9	137.0	143.9	149.9	163.3	181.6
72.5°	100.1	99.1	100.5	100.8	103.7	105.4	109.8	116.4	124.0	133.2	146.3
75°	77.6	77.6	77.6	77.6	79.8	80.9	82.5	84.1	86.8	91.1	100.8
77.5°	57.4	57.4	58.2	58.8	59.2	59.8	60.8	62.4	63.4	65.7	69.9
80°	45.3	45.8	45.3	45.8	45.8	46.9	47.5	49.0	49.6	52.3	53.9
82.5°	34.1	33.7	34.1	34.6	34.6	35.7	35.8	37.0	37.1	38.5	40.1
85°	18.3	17.3	18.3	17.8	18.9	17.8	18.3	19.4	19.4	20.0	22.1
87.5°	9.1	9.9	9.0	9.3	9.3	9.6	9.4	9.3	10.0	9.4	9.4
90°	23.8	23.5	23.1	22.8	22.4	21.9	21.2	20.5	19.8	19.1	16.8
92.5°	26.4	26.2	26.0	25.7	25.6	24.9	23.8	22.7	21.5	20.4	18.6
95°	30.3	30.3	30.3	30.3	30.3	29.6	28.4	27.2	25.9	24.6	22.7
97.5°	32.8	32.6	32.4	32.2	32.1	31.3	29.9	28.4	27.0	25.6	38.3
100°	33.4	33.3	33.0	32.9	32.7	31.9	30.5	29.1	27.6	26.2	53.9
102.5°	34.1	33.7	33.4	33.1	32.8	34.8	39.2	43.6	48.0	52.4	82.5
105°	35.0	34.6	34.3	34.0	33.6	49.0	80.3	111.7	143.0	174.3	190.2
107.5°	110.0	133.6	157.2	180.7	204.3	227.6	250.6	273.5	296.4	319.4	316.9
110°	218.8	244.1	269.3	294.7	320.0	335.5	341.4	347.2	353.0	358.9	356.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	375.4	380.7	386.1	391.4	396.7	399.3	399.3	399.2	399.0	398.9	397.0
115°	467.9	467.1	466.4	465.7	465.0	463.8	462.0	460.3	458.5	456.7	455.1
117.5°	519.8	519.6	519.4	519.3	519.2	518.4	517.0	515.6	514.1	512.7	511.9
120°	555.4	555.4	555.4	555.4	555.4	554.7	553.3	551.8	550.4	549.0	548.5
122.5°	590.4	590.3	590.1	589.9	589.9	589.2	588.3	587.2	586.3	585.3	584.6
125°	639.7	639.4	639.0	638.7	638.3	637.9	637.6	637.2	636.9	636.5	635.8
127.5°	687.1	687.5	687.9	688.2	688.6	688.5	687.9	687.3	686.7	686.2	685.3
130°	717.7	718.0	718.4	718.7	719.1	718.9	718.2	717.6	716.8	716.1	715.4
132.5°	745.7	746.2	746.7	747.2	747.7	747.6	746.9	746.2	745.4	744.7	744.2
135°	788.5	789.0	789.6	790.1	790.6	790.6	790.1	789.6	789.0	788.5	787.8
137.5°	828.8	829.1	829.5	829.8	830.2	830.0	829.1	828.2	827.4	826.6	826.2
140°	852.9	853.3	853.7	854.1	854.4	854.2	853.5	852.8	852.1	851.4	850.8
142.5°	875.2	875.8	876.2	876.7	877.2	877.2	876.6	876.1	875.5	874.9	874.4
145°	909.4	909.4	909.4	909.4	909.4	909.3	908.9	908.6	908.2	907.8	907.5
147.5°	934.9	935.7	936.5	937.4	938.2	938.4	938.0	937.7	937.3	937.0	936.6
150°	954.0	954.6	955.1	955.6	956.2	956.2	955.8	955.5	955.1	954.8	954.4
152.5°	969.3	970.1	970.9	971.7	972.6	972.6	972.0	971.4	970.7	970.1	969.9
155°	990.6	991.7	992.8	993.8	994.8	995.0	994.0	993.2	992.3	991.4	991.3
157.5°	1008.6	1010.0	1011.4	1012.7	1014.1	1014.2	1013.2	1012.2	1011.1	1010.0	1010.2
160°	1020.0	1021.3	1022.5	1023.7	1025.0	1025.1	1024.1	1022.9	1021.9	1020.9	1021.0
162.5°	1030.9	1032.0	1033.1	1034.2	1035.2	1035.2	1034.0	1032.8	1031.6	1030.4	1030.5
165°	1043.9	1045.1	1046.4	1047.7	1048.8	1048.8	1047.3	1045.9	1044.6	1043.1	1043.3
167.5°	1053.3	1054.7	1056.1	1057.6	1059.0	1059.0	1057.6	1056.1	1054.7	1053.3	1053.3
170°	1059.1	1060.4	1061.8	1063.3	1064.7	1064.7	1063.3	1061.8	1060.4	1059.1	1059.1
172.5°	1062.2	1063.7	1065.3	1066.9	1068.4	1068.5	1067.1	1065.7	1064.3	1062.9	1062.7
175°	1067.0	1068.4	1069.8	1071.3	1072.7	1072.8	1071.5	1070.2	1069.1	1067.8	1067.6
177.5°	1068.4	1069.8	1071.3	1072.7	1074.1	1074.2	1073.1	1072.0	1070.9	1069.7	1069.5
180°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1300.3	1299.0	1293.0	1286.1	1277.0	1271.0	1266.2	1263.7	1255.9	1246.4	1239.9
5°	1380.6	1364.5	1347.3	1326.2	1306.8	1286.8	1274.5	1259.9	1242.1	1222.2	1208.2
7.5°	1466.7	1435.0	1400.8	1365.6	1330.7	1299.5	1271.8	1248.2	1219.9	1191.3	1171.2
10°	1532.7	1486.3	1438.4	1389.3	1344.5	1302.5	1270.1	1238.3	1204.4	1171.5	1146.7
12.5°	1592.6	1531.6	1476.3	1416.0	1358.8	1308.5	1261.9	1224.6	1183.7	1148.6	1120.4
15°	1668.5	1606.0	1539.1	1447.5	1371.5	1307.9	1251.3	1202.2	1152.6	1109.5	1082.0
17.5°	1739.5	1645.4	1555.5	1479.1	1380.3	1300.8	1231.8	1173.1	1118.6	1072.9	1039.1
20°	1768.8	1677.7	1580.1	1482.6	1385.5	1296.6	1216.2	1151.5	1095.0	1043.1	1011.9
22.5°	1786.5	1683.3	1580.6	1475.7	1372.5	1280.2	1200.7	1129.6	1068.2	1019.0	980.4
25°	1807.0	1684.2	1571.0	1467.4	1362.3	1262.0	1167.7	1092.3	1026.0	973.6	932.6
27.5°	1820.7	1676.1	1542.3	1427.2	1320.6	1220.8	1134.2	1054.2	987.0	931.7	887.7
30°	1823.3	1669.6	1520.3	1395.7	1287.4	1195.7	1104.1	1027.5	956.4	897.6	856.7
32.5°	1826.7	1653.7	1490.5	1358.2	1247.3	1156.5	1073.5	1000.4	927.5	869.6	827.8
35°	1812.5	1644.8	1445.3	1293.3	1182.3	1094.4	1019.5	952.0	880.4	824.3	781.7
37.5°	1751.2	1609.8	1398.5	1220.2	1104.1	1022.7	961.6	902.9	837.1	776.7	736.5
40°	1689.6	1575.3	1362.3	1175.8	1054.5	970.9	915.9	868.0	804.4	747.7	704.6
42.5°	1597.7	1528.3	1327.9	1129.2	998.4	917.9	871.5	826.6	770.7	713.2	672.7
45°	1429.2	1438.4	1257.2	1055.0	920.8	840.0	796.2	765.0	715.4	668.0	626.5
47.5°	1217.8	1303.5	1174.3	976.0	838.9	763.0	724.8	697.6	664.2	617.6	579.7
50°	1079.8	1202.2	1107.9	923.0	787.7	712.2	674.4	652.3	623.2	586.5	550.4
52.5°	952.6	1084.0	1027.6	863.9	732.0	663.0	626.1	607.9	584.8	550.3	517.6
55°	776.8	910.0	897.1	774.7	648.6	586.5	558.5	538.1	522.4	496.5	470.6
57.5°	628.4	754.6	761.3	675.5	575.0	513.7	489.6	474.2	464.0	444.4	420.5
60°	534.8	650.7	673.4	608.6	522.4	468.5	444.7	432.4	424.3	408.6	390.3
62.5°	457.2	555.8	581.5	534.9	471.9	421.4	402.9	390.9	385.5	372.0	355.8
65°	349.9	431.8	456.6	430.7	397.8	357.4	342.3	332.1	327.3	319.7	307.8
67.5°	263.1	322.8	350.0	331.8	319.9	294.4	284.8	279.2	275.0	269.7	259.8
70°	211.4	255.6	283.6	278.7	269.0	255.6	248.5	244.8	240.4	236.1	227.5
72.5°	169.9	200.3	226.6	229.1	221.2	218.5	212.3	210.7	208.1	203.0	198.2
75°	112.6	133.7	152.0	159.1	162.2	164.9	162.2	161.8	161.2	156.9	154.2
77.5°	73.8	85.2	96.7	108.7	113.8	117.4	118.3	120.3	118.8	116.5	115.3
80°	56.6	59.3	67.4	77.6	85.7	89.0	91.1	92.2	91.7	91.1	89.0
82.5°	41.1	43.3	47.1	54.3	61.2	66.5	67.8	67.6	68.8	69.1	67.4
85°	22.1	22.7	23.7	24.8	28.6	34.5	36.1	37.2	38.3	38.3	35.0
87.5°	9.8	8.9	9.3	8.9	9.8	9.9	12.1	13.9	14.7	13.4	13.7
90°	14.5	12.2	9.9	7.8	6.1	4.4	2.5	0.8	2.5	4.4	6.1
92.5°	16.9	15.2	13.5	12.8	13.3	13.8	14.3	14.8	14.3	13.8	13.3
95°	20.8	18.9	16.9	19.6	26.8	34.1	41.3	48.6	41.3	34.1	26.8
97.5°	51.1	63.8	76.5	84.5	87.8	91.0	94.3	97.5	94.3	91.0	87.8
100°	81.4	109.0	136.6	148.6	145.0	141.6	138.0	134.4	138.0	141.6	145.0
102.5°	112.6	142.8	172.9	186.6	184.1	181.6	179.0	176.5	179.0	181.6	184.1
105°	206.0	222.0	237.9	244.9	243.0	241.0	239.1	237.1	239.1	241.0	243.0
107.5°	314.3	311.9	309.3	307.3	305.8	304.2	302.6	301.1	302.6	304.2	305.8
110°	355.0	353.0	351.1	349.4	348.0	346.6	345.2	343.7	345.2	346.6	348.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	395.1	393.1	391.2	389.6	388.3	387.0	385.7	384.4	385.7	387.0	388.3
115°	453.5	451.9	450.4	449.0	448.0	446.9	445.8	444.8	445.8	446.9	448.0
117.5°	511.1	510.3	509.5	508.4	507.1	505.8	504.5	503.2	504.5	505.8	507.1
120°	548.0	547.4	546.9	545.8	544.2	542.6	541.1	539.5	541.1	542.6	544.2
122.5°	583.9	583.3	582.6	581.6	580.3	579.0	577.7	576.4	577.7	579.0	580.3
125°	635.1	634.4	633.7	632.6	631.2	629.8	628.4	627.0	628.4	629.8	631.2
127.5°	684.5	683.7	682.8	681.7	680.2	678.8	677.4	676.0	677.4	678.8	680.2
130°	714.7	714.0	713.3	712.3	710.8	709.4	708.0	706.5	708.0	709.4	710.8
132.5°	743.6	743.1	742.5	741.5	740.1	738.6	737.3	735.9	737.3	738.6	740.1
135°	787.1	786.4	785.7	784.8	783.7	782.7	781.6	780.5	781.6	782.7	783.7
137.5°	825.8	825.4	825.0	824.1	822.8	821.4	820.1	818.7	820.1	821.4	822.8
140°	850.3	849.8	849.2	848.4	847.4	846.4	845.3	844.2	845.3	846.4	847.4
142.5°	873.9	873.3	872.8	872.0	870.9	869.9	868.8	867.8	868.8	869.9	870.9
145°	907.1	906.8	906.4	905.6	904.4	903.2	901.9	900.7	901.9	903.2	904.4
147.5°	936.3	935.9	935.6	935.0	934.1	933.3	932.6	931.8	932.6	933.3	934.1
150°	954.1	953.7	953.4	952.9	952.4	951.9	951.3	950.9	951.3	951.9	952.4
152.5°	969.6	969.5	969.2	969.0	968.8	968.5	968.3	968.0	968.3	968.5	968.8
155°	991.0	990.9	990.7	990.8	991.2	991.5	991.8	992.2	991.8	991.5	991.2
157.5°	1010.3	1010.6	1010.7	1010.8	1010.9	1010.9	1011.0	1011.0	1011.0	1010.9	1010.9
160°	1021.2	1021.4	1021.5	1021.8	1021.9	1022.1	1022.2	1022.5	1022.2	1022.1	1021.9
162.5°	1030.8	1030.9	1031.1	1031.4	1031.9	1032.4	1032.8	1033.2	1032.8	1032.4	1031.9
165°	1043.5	1043.6	1043.9	1044.2	1044.7	1045.3	1045.8	1046.3	1045.8	1045.3	1044.7
167.5°	1053.3	1053.3	1053.3	1053.7	1054.4	1055.1	1055.8	1056.5	1055.8	1055.1	1054.4
170°	1059.1	1059.1	1059.1	1059.4	1060.1	1060.8	1061.5	1062.2	1061.5	1060.8	1060.1
172.5°	1062.6	1062.4	1062.3	1062.6	1063.5	1064.4	1065.2	1066.0	1065.2	1064.4	1063.5
175°	1067.5	1067.2	1067.1	1067.5	1068.3	1069.2	1070.1	1071.0	1070.1	1069.2	1068.3
177.5°	1069.4	1069.3	1069.1	1069.4	1070.2	1070.9	1071.5	1072.2	1071.5	1070.9	1070.2
180°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1237.8	1232.2	1228.3	1219.6	1214.1	1208.0	1202.0	1205.9	1205.5	1205.0	1205.0
5°	1196.3	1183.8	1172.6	1158.0	1148.8	1137.5	1128.9	1127.8	1130.0	1122.4	1118.1
7.5°	1155.1	1138.1	1122.1	1106.0	1089.0	1075.4	1066.9	1062.9	1057.4	1052.7	1047.9
10°	1126.2	1106.3	1090.6	1070.6	1052.3	1036.2	1026.0	1018.9	1015.1	1011.4	1004.3
12.5°	1096.5	1076.9	1057.0	1034.4	1017.0	998.2	990.5	982.7	975.5	971.2	961.6
15°	1052.9	1027.5	1006.5	982.8	963.4	945.1	934.3	918.6	916.5	911.1	901.4
17.5°	1009.2	981.7	952.7	935.2	913.2	894.1	877.7	872.5	857.1	851.3	842.8
20°	974.7	949.4	927.2	904.1	872.3	854.4	841.5	834.6	822.1	814.6	809.2
22.5°	944.9	919.2	893.7	866.6	840.3	820.4	811.0	800.0	793.2	782.7	776.8
25°	902.5	874.4	843.7	814.6	795.7	780.6	765.6	755.8	746.2	741.2	730.5
27.5°	853.1	823.8	795.0	772.9	749.8	734.9	721.2	712.6	700.9	692.8	686.8
30°	825.9	791.4	766.6	746.6	717.0	703.0	692.8	682.0	673.4	664.7	658.8
32.5°	794.4	763.0	739.4	714.8	692.0	676.7	663.5	653.9	646.6	638.4	632.5
35°	745.0	718.7	694.3	669.6	652.8	637.2	621.6	613.5	606.5	599.0	593.6
37.5°	700.4	675.7	652.7	629.2	608.4	595.7	583.1	576.9	567.4	562.4	556.9
40°	672.8	648.6	623.8	601.1	579.6	569.8	558.5	549.4	540.7	536.9	531.0
42.5°	642.6	618.4	597.5	573.1	555.4	542.2	531.8	521.7	515.3	509.8	506.4
45°	597.9	576.3	555.8	531.6	514.8	503.5	491.6	482.5	476.6	472.8	466.8
47.5°	554.4	532.8	512.1	490.9	474.8	461.8	450.0	443.5	435.7	431.1	427.1
50°	522.9	503.5	481.4	462.0	445.8	432.9	423.2	415.1	408.1	402.2	399.5
52.5°	494.0	473.3	454.2	436.2	419.1	404.4	395.6	387.1	381.8	375.0	371.9
55°	446.4	426.4	410.3	392.4	375.7	363.4	352.6	345.0	339.6	332.1	327.8
57.5°	401.6	383.7	364.4	349.0	331.8	321.3	312.4	302.1	295.6	289.6	285.4
60°	371.5	350.9	334.2	319.7	304.6	291.1	283.0	275.0	267.9	262.0	258.3
62.5°	339.9	322.1	306.2	290.3	276.6	264.8	255.4	248.7	242.5	238.7	235.0
65°	291.7	277.7	261.5	248.5	235.6	227.0	219.4	213.5	209.1	206.4	203.3
67.5°	247.2	233.6	219.5	206.8	198.2	191.6	186.6	181.6	179.4	175.9	173.8
70°	218.3	204.3	191.9	182.2	173.6	168.7	165.5	161.8	159.5	155.3	153.1
72.5°	186.9	176.7	167.8	159.8	152.9	148.5	144.3	139.7	136.3	131.5	129.4
75°	147.2	138.0	131.0	125.6	121.3	115.3	109.4	104.6	103.0	101.3	100.8
77.5°	109.0	103.2	98.2	93.6	88.2	83.9	82.6	81.5	81.2	80.3	80.3
80°	85.7	80.3	76.5	71.1	67.9	67.9	67.9	66.9	67.4	67.4	67.4
82.5°	63.7	58.8	56.7	54.7	54.1	54.6	54.6	54.7	54.4	55.3	54.9
85°	32.9	33.4	34.5	34.0	34.5	34.5	35.6	35.0	35.6	34.5	35.6
87.5°	13.6	15.4	16.2	17.1	18.1	18.1	18.6	18.8	19.3	19.5	19.6
90°	7.8	9.9	12.2	14.5	16.8	19.1	19.8	20.5	21.2	21.9	22.4
92.5°	12.8	13.5	15.2	16.9	18.6	20.4	21.5	22.7	23.8	24.9	25.6
95°	19.6	16.9	18.9	20.8	22.7	24.6	25.9	27.2	28.4	29.6	30.3
97.5°	84.5	76.5	63.8	51.1	38.3	25.6	27.0	28.4	29.9	31.3	32.1
100°	148.6	136.6	109.0	81.4	53.9	26.2	27.6	29.1	30.5	31.9	32.7
102.5°	186.6	172.9	142.8	112.6	82.5	52.4	48.0	43.6	39.2	34.8	32.8
105°	244.9	237.9	222.0	206.0	190.2	174.3	143.0	111.7	80.3	49.0	33.6
107.5°	307.3	309.3	311.9	314.3	316.9	319.4	296.4	273.5	250.6	227.6	204.3
110°	349.4	351.1	353.0	355.0	356.9	358.9	353.0	347.2	341.4	335.5	320.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	389.6	391.2	393.1	395.1	397.0	398.9	399.0	399.2	399.3	399.3	396.7
115°	449.0	450.4	451.9	453.5	455.1	456.7	458.5	460.3	462.0	463.8	465.0
117.5°	508.4	509.5	510.3	511.1	511.9	512.7	514.1	515.6	517.0	518.4	519.2
120°	545.8	546.9	547.4	548.0	548.5	549.0	550.4	551.8	553.3	554.7	555.4
122.5°	581.6	582.6	583.3	583.9	584.6	585.3	586.3	587.2	588.3	589.2	589.9
125°	632.6	633.7	634.4	635.1	635.8	636.5	636.9	637.2	637.6	637.9	638.3
127.5°	681.7	682.8	683.7	684.5	685.3	686.2	686.7	687.3	687.9	688.5	688.6
130°	712.3	713.3	714.0	714.7	715.4	716.1	716.8	717.6	718.2	718.9	719.1
132.5°	741.5	742.5	743.1	743.6	744.2	744.7	745.4	746.2	746.9	747.6	747.7
135°	784.8	785.7	786.4	787.1	787.8	788.5	789.0	789.6	790.1	790.6	790.6
137.5°	824.1	825.0	825.4	825.8	826.2	826.6	827.4	828.2	829.1	830.0	830.2
140°	848.4	849.2	849.8	850.3	850.8	851.4	852.1	852.8	853.5	854.2	854.4
142.5°	872.0	872.8	873.3	873.9	874.4	874.9	875.5	876.1	876.6	877.2	877.2
145°	905.6	906.4	906.8	907.1	907.5	907.8	908.2	908.6	908.9	909.3	909.4
147.5°	935.0	935.6	935.9	936.3	936.6	937.0	937.3	937.7	938.0	938.4	938.2
150°	952.9	953.4	953.7	954.1	954.4	954.8	955.1	955.5	955.8	956.2	956.2
152.5°	969.0	969.2	969.5	969.6	969.9	970.1	970.7	971.4	972.0	972.6	972.6
155°	990.8	990.7	990.9	991.0	991.3	991.4	992.3	993.2	994.0	995.0	994.8
157.5°	1010.8	1010.7	1010.6	1010.3	1010.2	1010.0	1011.1	1012.2	1013.2	1014.2	1014.1
160°	1021.8	1021.5	1021.4	1021.2	1021.0	1020.9	1021.9	1022.9	1024.1	1025.1	1025.0
162.5°	1031.4	1031.1	1030.9	1030.8	1030.5	1030.4	1031.6	1032.8	1034.0	1035.2	1035.2
165°	1044.2	1043.9	1043.6	1043.5	1043.3	1043.1	1044.6	1045.9	1047.3	1048.8	1048.8
167.5°	1053.7	1053.3	1053.3	1053.3	1053.3	1053.3	1054.7	1056.1	1057.6	1059.0	1059.0
170°	1059.4	1059.1	1059.1	1059.1	1059.1	1059.1	1060.4	1061.8	1063.3	1064.7	1064.7
172.5°	1062.6	1062.3	1062.4	1062.6	1062.7	1062.9	1064.3	1065.7	1067.1	1068.5	1068.4
175°	1067.5	1067.1	1067.2	1067.5	1067.6	1067.8	1069.1	1070.2	1071.5	1072.8	1072.7
177.5°	1069.4	1069.1	1069.3	1069.4	1069.5	1069.7	1070.9	1072.0	1073.1	1074.2	1074.1
180°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1199.8	1199.4	1199.8	1198.1	1199.8	1199.4	1199.8	1205.0	1205.0	1205.5	1205.9
5°	1116.5	1115.9	1114.4	1109.5	1114.4	1115.9	1116.5	1118.1	1122.4	1130.0	1127.8
7.5°	1043.7	1043.0	1038.2	1038.3	1038.2	1043.0	1043.7	1047.9	1052.7	1057.4	1062.9
10°	1000.6	1001.1	994.7	990.9	994.7	1001.1	1000.6	1004.3	1011.4	1015.1	1018.9
12.5°	958.8	956.2	951.1	946.9	951.1	956.2	958.8	961.6	971.2	975.5	982.7
15°	903.6	898.2	885.2	886.3	885.2	898.2	903.6	901.4	911.1	916.5	918.6
17.5°	838.5	834.6	834.3	826.8	834.3	834.6	838.5	842.8	851.3	857.1	872.5
20°	800.6	797.9	798.9	791.4	798.9	797.9	800.6	809.2	814.6	822.1	834.6
22.5°	770.8	768.1	763.6	761.2	763.6	768.1	770.8	776.8	782.7	793.2	800.0
25°	727.2	722.9	718.7	721.4	718.7	722.9	727.2	730.5	741.2	746.2	755.8
27.5°	683.7	680.5	676.1	675.6	676.1	680.5	683.7	686.8	692.8	700.9	712.6
30°	656.1	652.8	650.7	648.0	650.7	652.8	656.1	658.8	664.7	673.4	682.0
32.5°	628.0	627.4	623.5	623.0	623.5	627.4	628.0	632.5	638.4	646.6	653.9
35°	591.4	588.2	587.1	587.6	587.1	588.2	591.4	593.6	599.0	606.5	613.5
37.5°	556.6	552.2	550.3	548.3	550.3	552.2	556.6	556.9	562.4	567.4	576.9
40°	531.6	527.3	526.2	525.1	526.2	527.3	531.6	531.0	536.9	540.7	549.4
42.5°	503.5	501.8	501.1	499.2	501.1	501.8	503.5	506.4	509.8	515.3	521.7
45°	465.2	464.7	461.4	462.6	461.4	464.7	465.2	466.8	472.8	476.6	482.5
47.5°	424.9	422.6	420.3	421.8	420.3	422.6	424.9	427.1	431.1	435.7	443.5
50°	397.4	396.2	391.4	392.4	391.4	396.2	397.4	399.5	402.2	408.1	415.1
52.5°	369.7	365.6	363.8	363.1	363.8	365.6	369.7	371.9	375.0	381.8	387.1
55°	324.0	319.2	317.0	315.9	317.0	319.2	324.0	327.8	332.1	339.6	345.0
57.5°	279.2	277.8	276.2	277.3	276.2	277.8	279.2	285.4	289.6	295.6	302.1
60°	252.9	252.9	252.9	252.3	252.9	252.9	252.9	258.3	262.0	267.9	275.0
62.5°	232.6	231.2	230.8	231.6	230.8	231.2	232.6	235.0	238.7	242.5	248.7
65°	201.6	201.1	198.9	198.4	198.9	201.1	201.6	203.3	206.4	209.1	213.5
67.5°	172.4	170.5	169.8	169.1	169.8	170.5	172.4	173.8	175.9	179.4	181.6
70°	150.4	149.3	146.1	146.6	146.1	149.3	150.4	153.1	155.3	159.5	161.8
72.5°	126.7	125.6	124.9	124.2	124.9	125.6	126.7	129.4	131.5	136.3	139.7
75°	100.3	99.7	99.2	101.3	99.2	99.7	100.3	100.8	101.3	103.0	104.6
77.5°	80.3	80.3	80.6	79.8	80.6	80.3	80.3	80.3	80.3	81.2	81.5
80°	67.4	67.4	66.9	66.9	66.9	67.4	67.4	67.4	67.4	67.4	66.9
82.5°	54.0	54.4	54.7	53.9	54.7	54.4	54.0	54.9	55.3	54.4	54.7
85°	35.6	35.0	36.1	35.6	36.1	35.0	35.6	35.6	34.5	35.6	35.0
87.5°	20.5	19.7	19.8	20.3	19.8	19.7	20.5	19.6	19.5	19.3	18.8
90°	22.8	23.1	23.5	23.8	23.5	23.1	22.8	22.4	21.9	21.2	20.5
92.5°	25.7	26.0	26.2	26.4	26.2	26.0	25.7	25.6	24.9	23.8	22.7
95°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	29.6	28.4	27.2
97.5°	32.2	32.4	32.6	32.8	32.6	32.4	32.2	32.1	31.3	29.9	28.4
100°	32.9	33.0	33.3	33.4	33.3	33.0	32.9	32.7	31.9	30.5	29.1
102.5°	33.1	33.4	33.7	34.1	33.7	33.4	33.1	32.8	34.8	39.2	43.6
105°	34.0	34.3	34.6	35.0	34.6	34.3	34.0	33.6	49.0	80.3	111.7
107.5°	180.7	157.2	133.6	110.0	133.6	157.2	180.7	204.3	227.6	250.6	273.5
110°	294.7	269.3	244.1	218.8	244.1	269.3	294.7	320.0	335.5	341.4	347.2



TEST NUMBER: P332458-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	391.4	386.1	380.7	375.4	380.7	386.1	391.4	396.7	399.3	399.3	399.2
115°	465.7	466.4	467.1	467.9	467.1	466.4	465.7	465.0	463.8	462.0	460.3
117.5°	519.3	519.4	519.6	519.8	519.6	519.4	519.3	519.2	518.4	517.0	515.6
120°	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	554.7	553.3	551.8
122.5°	589.9	590.1	590.3	590.4	590.3	590.1	589.9	589.9	589.2	588.3	587.2
125°	638.7	639.0	639.4	639.7	639.4	639.0	638.7	638.3	637.9	637.6	637.2
127.5°	688.2	687.9	687.5	687.1	687.5	687.9	688.2	688.6	688.5	687.9	687.3
130°	718.7	718.4	718.0	717.7	718.0	718.4	718.7	719.1	718.9	718.2	717.6
132.5°	747.2	746.7	746.2	745.7	746.2	746.7	747.2	747.7	747.6	746.9	746.2
135°	790.1	789.6	789.0	788.5	789.0	789.6	790.1	790.6	790.6	790.1	789.6
137.5°	829.8	829.5	829.1	828.8	829.1	829.5	829.8	830.2	830.0	829.1	828.2
140°	854.1	853.7	853.3	852.9	853.3	853.7	854.1	854.4	854.2	853.5	852.8
142.5°	876.7	876.2	875.8	875.2	875.8	876.2	876.7	877.2	877.2	876.6	876.1
145°	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.3	908.9	908.6
147.5°	937.4	936.5	935.7	934.9	935.7	936.5	937.4	938.2	938.4	938.0	937.7
150°	955.6	955.1	954.6	954.0	954.6	955.1	955.6	956.2	956.2	955.8	955.5
152.5°	971.7	970.9	970.1	969.3	970.1	970.9	971.7	972.6	972.6	972.0	971.4
155°	993.8	992.8	991.7	990.6	991.7	992.8	993.8	994.8	995.0	994.0	993.2
157.5°	1012.7	1011.4	1010.0	1008.6	1010.0	1011.4	1012.7	1014.1	1014.2	1013.2	1012.2
160°	1023.7	1022.5	1021.3	1020.0	1021.3	1022.5	1023.7	1025.0	1025.1	1024.1	1022.9
162.5°	1034.2	1033.1	1032.0	1030.9	1032.0	1033.1	1034.2	1035.2	1035.2	1034.0	1032.8
165°	1047.7	1046.4	1045.1	1043.9	1045.1	1046.4	1047.7	1048.8	1048.8	1047.3	1045.9
167.5°	1057.6	1056.1	1054.7	1053.3	1054.7	1056.1	1057.6	1059.0	1059.0	1057.6	1056.1
170°	1063.3	1061.8	1060.4	1059.1	1060.4	1061.8	1063.3	1064.7	1064.7	1063.3	1061.8
172.5°	1066.9	1065.3	1063.7	1062.2	1063.7	1065.3	1066.9	1068.4	1068.5	1067.1	1065.7
175°	1071.3	1069.8	1068.4	1067.0	1068.4	1069.8	1071.3	1072.7	1072.8	1071.5	1070.2
177.5°	1072.7	1071.3	1069.8	1068.4	1069.8	1071.3	1072.7	1074.1	1074.2	1073.1	1072.0
180°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1202.0	1208.0	1214.1	1219.6	1228.3	1232.2	1237.8	1239.9	1246.4	1255.9	1263.7
5°	1128.9	1137.5	1148.8	1158.0	1172.6	1183.8	1196.3	1208.2	1222.2	1242.1	1259.9
7.5°	1066.9	1075.4	1089.0	1106.0	1122.1	1138.1	1155.1	1171.2	1191.3	1219.9	1248.2
10°	1026.0	1036.2	1052.3	1070.6	1090.6	1106.3	1126.2	1146.7	1171.5	1204.4	1238.3
12.5°	990.5	998.2	1017.0	1034.4	1057.0	1076.9	1096.5	1120.4	1148.6	1183.7	1224.6
15°	934.3	945.1	963.4	982.8	1006.5	1027.5	1052.9	1082.0	1109.5	1152.6	1202.2
17.5°	877.7	894.1	913.2	935.2	952.7	981.7	1009.2	1039.1	1072.9	1118.6	1173.1
20°	841.5	854.4	872.3	904.1	927.2	949.4	974.7	1011.9	1043.1	1095.0	1151.5
22.5°	811.0	820.4	840.3	866.6	893.7	919.2	944.9	980.4	1019.0	1068.2	1129.6
25°	765.6	780.6	795.7	814.6	843.7	874.4	902.5	932.6	973.6	1026.0	1092.3
27.5°	721.2	734.9	749.8	772.9	795.0	823.8	853.1	887.7	931.7	987.0	1054.2
30°	692.8	703.0	717.0	746.6	766.6	791.4	825.9	856.7	897.6	956.4	1027.5
32.5°	663.5	676.7	692.0	714.8	739.4	763.0	794.4	827.8	869.6	927.5	1000.4
35°	621.6	637.2	652.8	669.6	694.3	718.7	745.0	781.7	824.3	880.4	952.0
37.5°	583.1	595.7	608.4	629.2	652.7	675.7	700.4	736.5	776.7	837.1	902.9
40°	558.5	569.8	579.6	601.1	623.8	648.6	672.8	704.6	747.7	804.4	868.0
42.5°	531.8	542.2	555.4	573.1	597.5	618.4	642.6	672.7	713.2	770.7	826.6
45°	491.6	503.5	514.8	531.6	555.8	576.3	597.9	626.5	668.0	715.4	765.0
47.5°	450.0	461.8	474.8	490.9	512.1	532.8	554.4	579.7	617.6	664.2	697.6
50°	423.2	432.9	445.8	462.0	481.4	503.5	522.9	550.4	586.5	623.2	652.3
52.5°	395.6	404.4	419.1	436.2	454.2	473.3	494.0	517.6	550.3	584.8	607.9
55°	352.6	363.4	375.7	392.4	410.3	426.4	446.4	470.6	496.5	522.4	538.1
57.5°	312.4	321.3	331.8	349.0	364.4	383.7	401.6	420.5	444.4	464.0	474.2
60°	283.0	291.1	304.6	319.7	334.2	350.9	371.5	390.3	408.6	424.3	432.4
62.5°	255.4	264.8	276.6	290.3	306.2	322.1	339.9	355.8	372.0	385.5	390.9
65°	219.4	227.0	235.6	248.5	261.5	277.7	291.7	307.8	319.7	327.3	332.1
67.5°	186.6	191.6	198.2	206.8	219.5	233.6	247.2	259.8	269.7	275.0	279.2
70°	165.5	168.7	173.6	182.2	191.9	204.3	218.3	227.5	236.1	240.4	244.8
72.5°	144.3	148.5	152.9	159.8	167.8	176.7	186.9	198.2	203.0	208.1	210.7
75°	109.4	115.3	121.3	125.6	131.0	138.0	147.2	154.2	156.9	161.2	161.8
77.5°	82.6	83.9	88.2	93.6	98.2	103.2	109.0	115.3	116.5	118.8	120.3
80°	67.9	67.9	67.9	71.1	76.5	80.3	85.7	89.0	91.1	91.7	92.2
82.5°	54.6	54.6	54.1	54.7	56.7	58.8	63.7	67.4	69.1	68.8	67.6
85°	35.6	34.5	34.5	34.0	34.5	33.4	32.9	35.0	38.3	38.3	37.2
87.5°	18.6	18.1	18.1	17.1	16.2	15.4	13.6	13.7	13.4	14.7	13.9
90°	19.8	19.1	16.8	14.5	12.2	9.9	7.8	6.1	4.4	2.5	0.8
92.5°	21.5	20.4	18.6	16.9	15.2	13.5	12.8	13.3	13.8	14.3	14.8
95°	25.9	24.6	22.7	20.8	18.9	16.9	19.6	26.8	34.1	41.3	48.6
97.5°	27.0	25.6	38.3	51.1	63.8	76.5	84.5	87.8	91.0	94.3	97.5
100°	27.6	26.2	53.9	81.4	109.0	136.6	148.6	145.0	141.6	138.0	134.4
102.5°	48.0	52.4	82.5	112.6	142.8	172.9	186.6	184.1	181.6	179.0	176.5
105°	143.0	174.3	190.2	206.0	222.0	237.9	244.9	243.0	241.0	239.1	237.1
107.5°	296.4	319.4	316.9	314.3	311.9	309.3	307.3	305.8	304.2	302.6	301.1
110°	353.0	358.9	356.9	355.0	353.0	351.1	349.4	348.0	346.6	345.2	343.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	399.0	398.9	397.0	395.1	393.1	391.2	389.6	388.3	387.0	385.7	384.4
115°	458.5	456.7	455.1	453.5	451.9	450.4	449.0	448.0	446.9	445.8	444.8
117.5°	514.1	512.7	511.9	511.1	510.3	509.5	508.4	507.1	505.8	504.5	503.2
120°	550.4	549.0	548.5	548.0	547.4	546.9	545.8	544.2	542.6	541.1	539.5
122.5°	586.3	585.3	584.6	583.9	583.3	582.6	581.6	580.3	579.0	577.7	576.4
125°	636.9	636.5	635.8	635.1	634.4	633.7	632.6	631.2	629.8	628.4	627.0
127.5°	686.7	686.2	685.3	684.5	683.7	682.8	681.7	680.2	678.8	677.4	676.0
130°	716.8	716.1	715.4	714.7	714.0	713.3	712.3	710.8	709.4	708.0	706.5
132.5°	745.4	744.7	744.2	743.6	743.1	742.5	741.5	740.1	738.6	737.3	735.9
135°	789.0	788.5	787.8	787.1	786.4	785.7	784.8	783.7	782.7	781.6	780.5
137.5°	827.4	826.6	826.2	825.8	825.4	825.0	824.1	822.8	821.4	820.1	818.7
140°	852.1	851.4	850.8	850.3	849.8	849.2	848.4	847.4	846.4	845.3	844.2
142.5°	875.5	874.9	874.4	873.9	873.3	872.8	872.0	870.9	869.9	868.8	867.8
145°	908.2	907.8	907.5	907.1	906.8	906.4	905.6	904.4	903.2	901.9	900.7
147.5°	937.3	937.0	936.6	936.3	935.9	935.6	935.0	934.1	933.3	932.6	931.8
150°	955.1	954.8	954.4	954.1	953.7	953.4	952.9	952.4	951.9	951.3	950.9
152.5°	970.7	970.1	969.9	969.6	969.5	969.2	969.0	968.8	968.5	968.3	968.0
155°	992.3	991.4	991.3	991.0	990.9	990.7	990.8	991.2	991.5	991.8	992.2
157.5°	1011.1	1010.0	1010.2	1010.3	1010.6	1010.7	1010.8	1010.9	1010.9	1011.0	1011.0
160°	1021.9	1020.9	1021.0	1021.2	1021.4	1021.5	1021.8	1021.9	1022.1	1022.2	1022.5
162.5°	1031.6	1030.4	1030.5	1030.8	1030.9	1031.1	1031.4	1031.9	1032.4	1032.8	1033.2
165°	1044.6	1043.1	1043.3	1043.5	1043.6	1043.9	1044.2	1044.7	1045.3	1045.8	1046.3
167.5°	1054.7	1053.3	1053.3	1053.3	1053.3	1053.3	1053.7	1054.4	1055.1	1055.8	1056.5
170°	1060.4	1059.1	1059.1	1059.1	1059.1	1059.1	1059.4	1060.1	1060.8	1061.5	1062.2
172.5°	1064.3	1062.9	1062.7	1062.6	1062.4	1062.3	1062.6	1063.5	1064.4	1065.2	1066.0
175°	1069.1	1067.8	1067.6	1067.5	1067.2	1067.1	1067.5	1068.3	1069.2	1070.1	1071.0
177.5°	1070.9	1069.7	1069.5	1069.4	1069.3	1069.1	1069.4	1070.2	1070.9	1071.5	1072.2
180°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1266.2	1271.0	1277.0	1286.1	1293.0	1299.0	1300.3	1302.0	1306.4	1313.7	1319.3
5°	1274.5	1286.8	1306.8	1326.2	1347.3	1364.5	1380.6	1391.9	1402.7	1425.4	1443.8
7.5°	1271.8	1299.5	1330.7	1365.6	1400.8	1435.0	1466.7	1495.1	1523.3	1556.3	1593.9
10°	1270.1	1302.5	1344.5	1389.3	1438.4	1486.3	1532.7	1568.8	1610.8	1648.6	1696.5
12.5°	1261.9	1308.5	1358.8	1416.0	1476.3	1531.6	1592.6	1642.5	1690.7	1745.2	1800.9
15°	1251.3	1307.9	1371.5	1447.5	1539.1	1606.0	1668.5	1755.3	1814.7	1873.9	1953.8
17.5°	1231.8	1300.8	1380.3	1479.1	1555.5	1645.4	1739.5	1808.1	1887.9	1971.5	2043.8
20°	1216.2	1296.6	1385.5	1482.6	1580.1	1677.7	1768.8	1850.8	1933.2	2029.7	2089.1
22.5°	1200.7	1280.2	1372.5	1475.7	1580.6	1683.3	1786.5	1882.7	1975.5	2072.8	2148.6
25°	1167.7	1262.0	1362.3	1467.4	1571.0	1684.2	1807.0	1914.4	2029.2	2129.5	2201.2
27.5°	1134.2	1220.8	1320.6	1427.2	1542.3	1676.1	1820.7	1942.6	2057.7	2129.5	2152.0
30°	1104.1	1195.7	1287.4	1395.7	1520.3	1669.6	1823.3	1962.9	2057.2	2088.5	2065.3
32.5°	1073.5	1156.5	1247.3	1358.2	1490.5	1653.7	1826.7	1950.8	2007.6	1983.7	1889.4
35°	1019.5	1094.4	1182.3	1293.3	1445.3	1644.8	1812.5	1896.6	1882.5	1747.8	1569.9
37.5°	961.6	1022.7	1104.1	1220.2	1398.5	1609.8	1751.2	1763.6	1642.4	1435.4	1229.9
40°	915.9	970.9	1054.5	1175.8	1362.3	1575.3	1689.6	1639.4	1451.3	1221.1	1049.6
42.5°	871.5	917.9	998.4	1129.2	1327.9	1528.3	1597.7	1488.5	1271.5	1053.8	897.9
45°	796.2	840.0	920.8	1055.0	1257.2	1438.4	1429.2	1239.4	1022.2	846.9	717.6
47.5°	724.8	763.0	838.9	976.0	1174.3	1303.5	1217.8	1015.9	831.6	691.0	598.7
50°	674.4	712.2	787.7	923.0	1107.9	1202.2	1079.8	885.2	716.4	600.0	526.7
52.5°	626.1	663.0	732.0	863.9	1027.6	1084.0	952.6	772.2	631.5	531.0	468.0
55°	558.5	586.5	648.6	774.7	897.1	910.0	776.8	625.9	510.0	439.9	396.8
57.5°	489.6	513.7	575.0	675.5	761.3	754.6	628.4	497.8	419.8	367.7	336.4
60°	444.7	468.5	522.4	608.6	673.4	650.7	534.8	429.7	362.8	324.6	299.8
62.5°	402.9	421.4	471.9	534.9	581.5	555.8	457.2	370.2	317.1	284.9	265.2
65°	342.3	357.4	397.8	430.7	456.6	431.8	349.9	289.5	251.2	228.5	215.1
67.5°	284.8	294.4	319.9	331.8	350.0	322.8	263.1	222.7	200.9	181.8	172.4
70°	248.5	255.6	269.0	278.7	283.6	255.6	211.4	181.6	163.3	149.9	143.9
72.5°	212.3	218.5	221.2	229.1	226.6	200.3	169.9	146.3	133.2	124.0	116.4
75°	162.2	164.9	162.2	159.1	152.0	133.7	112.6	100.8	91.1	86.8	84.1
77.5°	118.3	117.4	113.8	108.7	96.7	85.2	73.8	69.9	65.7	63.4	62.4
80°	91.1	89.0	85.7	77.6	67.4	59.3	56.6	53.9	52.3	49.6	49.0
82.5°	67.8	66.5	61.2	54.3	47.1	43.3	41.1	40.1	38.5	37.1	37.0
85°	36.1	34.5	28.6	24.8	23.7	22.7	22.1	22.1	20.0	19.4	19.4
87.5°	12.1	9.9	9.8	8.9	9.3	8.9	9.8	9.4	9.4	10.0	9.3
90°	2.5	4.4	6.1	7.8	9.9	12.2	14.5	16.8	19.1	19.8	20.5
92.5°	14.3	13.8	13.3	12.8	13.5	15.2	16.9	18.6	20.4	21.5	22.7
95°	41.3	34.1	26.8	19.6	16.9	18.9	20.8	22.7	24.6	25.9	27.2
97.5°	94.3	91.0	87.8	84.5	76.5	63.8	51.1	38.3	25.6	27.0	28.4
100°	138.0	141.6	145.0	148.6	136.6	109.0	81.4	53.9	26.2	27.6	29.1
102.5°	179.0	181.6	184.1	186.6	172.9	142.8	112.6	82.5	52.4	48.0	43.6
105°	239.1	241.0	243.0	244.9	237.9	222.0	206.0	190.2	174.3	143.0	111.7
107.5°	302.6	304.2	305.8	307.3	309.3	311.9	314.3	316.9	319.4	296.4	273.5
110°	345.2	346.6	348.0	349.4	351.1	353.0	355.0	356.9	358.9	353.0	347.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	385.7	387.0	388.3	389.6	391.2	393.1	395.1	397.0	398.9	399.0	399.2
115°	445.8	446.9	448.0	449.0	450.4	451.9	453.5	455.1	456.7	458.5	460.3
117.5°	504.5	505.8	507.1	508.4	509.5	510.3	511.1	511.9	512.7	514.1	515.6
120°	541.1	542.6	544.2	545.8	546.9	547.4	548.0	548.5	549.0	550.4	551.8
122.5°	577.7	579.0	580.3	581.6	582.6	583.3	583.9	584.6	585.3	586.3	587.2
125°	628.4	629.8	631.2	632.6	633.7	634.4	635.1	635.8	636.5	636.9	637.2
127.5°	677.4	678.8	680.2	681.7	682.8	683.7	684.5	685.3	686.2	686.7	687.3
130°	708.0	709.4	710.8	712.3	713.3	714.0	714.7	715.4	716.1	716.8	717.6
132.5°	737.3	738.6	740.1	741.5	742.5	743.1	743.6	744.2	744.7	745.4	746.2
135°	781.6	782.7	783.7	784.8	785.7	786.4	787.1	787.8	788.5	789.0	789.6
137.5°	820.1	821.4	822.8	824.1	825.0	825.4	825.8	826.2	826.6	827.4	828.2
140°	845.3	846.4	847.4	848.4	849.2	849.8	850.3	850.8	851.4	852.1	852.8
142.5°	868.8	869.9	870.9	872.0	872.8	873.3	873.9	874.4	874.9	875.5	876.1
145°	901.9	903.2	904.4	905.6	906.4	906.8	907.1	907.5	907.8	908.2	908.6
147.5°	932.6	933.3	934.1	935.0	935.6	935.9	936.3	936.6	937.0	937.3	937.7
150°	951.3	951.9	952.4	952.9	953.4	953.7	954.1	954.4	954.8	955.1	955.5
152.5°	968.3	968.5	968.8	969.0	969.2	969.5	969.6	969.9	970.1	970.7	971.4
155°	991.8	991.5	991.2	990.8	990.7	990.9	991.0	991.3	991.4	992.3	993.2
157.5°	1011.0	1010.9	1010.9	1010.8	1010.7	1010.6	1010.3	1010.2	1010.0	1011.1	1012.2
160°	1022.2	1022.1	1021.9	1021.8	1021.5	1021.4	1021.2	1021.0	1020.9	1021.9	1022.9
162.5°	1032.8	1032.4	1031.9	1031.4	1031.1	1030.9	1030.8	1030.5	1030.4	1031.6	1032.8
165°	1045.8	1045.3	1044.7	1044.2	1043.9	1043.6	1043.5	1043.3	1043.1	1044.6	1045.9
167.5°	1055.8	1055.1	1054.4	1053.7	1053.3	1053.3	1053.3	1053.3	1053.3	1054.7	1056.1
170°	1061.5	1060.8	1060.1	1059.4	1059.1	1059.1	1059.1	1059.1	1059.1	1060.4	1061.8
172.5°	1065.2	1064.4	1063.5	1062.6	1062.3	1062.4	1062.6	1062.7	1062.9	1064.3	1065.7
175°	1070.1	1069.2	1068.3	1067.5	1067.1	1067.2	1067.5	1067.6	1067.8	1069.1	1070.2
177.5°	1071.5	1070.9	1070.2	1069.4	1069.1	1069.3	1069.4	1069.5	1069.7	1070.9	1072.0
180°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1328.3	1328.3	1330.1	1336.6	1337.4	1343.0	1341.3
5°	1459.9	1470.1	1473.9	1490.1	1499.8	1504.1	1495.5
7.5°	1620.8	1649.6	1663.3	1680.3	1695.3	1699.8	1688.1
10°	1738.0	1768.2	1793.6	1809.3	1823.8	1833.5	1845.9
12.5°	1851.5	1888.6	1912.6	1934.7	1949.7	1962.0	1964.1
15°	1974.8	2030.8	2073.4	2104.7	2120.3	2128.4	2125.2
17.5°	2099.0	2151.0	2181.4	2213.3	2234.9	2236.0	2236.6
20°	2169.4	2220.0	2255.1	2278.8	2303.0	2302.0	2307.4
22.5°	2216.4	2256.3	2283.1	2300.3	2308.7	2304.5	2305.6
25°	2238.4	2250.2	2245.4	2217.9	2210.9	2185.6	2189.8
27.5°	2124.9	2068.9	2010.9	1936.3	1877.4	1830.3	1832.7
30°	1970.9	1871.8	1758.6	1663.7	1578.5	1554.8	1504.1
32.5°	1755.8	1606.9	1474.3	1385.9	1312.8	1293.0	1248.8
35°	1390.9	1246.4	1110.0	1028.1	995.7	950.5	949.9
37.5°	1081.1	953.9	881.8	820.3	788.1	760.7	758.0
40°	909.5	810.2	755.8	711.6	679.9	659.3	654.5
42.5°	789.6	709.3	658.4	631.0	606.5	596.0	588.0
45°	644.8	590.9	555.2	530.4	519.2	511.0	506.8
47.5°	539.3	503.2	479.0	462.5	453.3	444.7	447.0
50°	482.0	452.3	434.5	418.9	411.9	405.9	406.5
52.5°	435.8	409.2	394.8	383.5	374.8	370.6	368.5
55°	369.8	353.1	338.6	330.5	325.6	319.7	318.1
57.5°	315.4	302.5	290.7	281.5	280.4	274.6	275.4
60°	279.2	268.5	258.8	253.9	250.2	245.3	246.9
62.5°	249.5	240.4	231.6	227.6	223.9	220.3	221.0
65°	204.3	195.7	190.3	188.1	186.6	184.9	183.3
67.5°	162.8	157.6	154.2	149.6	146.2	145.7	144.0
70°	137.0	129.9	124.0	118.0	116.5	115.9	116.5
72.5°	109.8	105.4	103.7	100.8	100.5	99.1	100.1
75°	82.5	80.9	79.8	77.6	77.6	77.6	77.6
77.5°	60.8	59.8	59.2	58.8	58.2	57.4	57.4
80°	47.5	46.9	45.8	45.8	45.3	45.8	45.3
82.5°	35.8	35.7	34.6	34.6	34.1	33.7	34.1
85°	18.3	17.8	18.9	17.8	18.3	17.3	18.3
87.5°	9.4	9.6	9.3	9.3	9.0	9.9	9.1
90°	21.2	21.9	22.4	22.8	23.1	23.5	23.8
92.5°	23.8	24.9	25.6	25.7	26.0	26.2	26.4
95°	28.4	29.6	30.3	30.3	30.3	30.3	30.3
97.5°	29.9	31.3	32.1	32.2	32.4	32.6	32.8
100°	30.5	31.9	32.7	32.9	33.0	33.3	33.4
102.5°	39.2	34.8	32.8	33.1	33.4	33.7	34.1
105°	80.3	49.0	33.6	34.0	34.3	34.6	35.0
107.5°	250.6	227.6	204.3	180.7	157.2	133.6	110.0
110°	341.4	335.5	320.0	294.7	269.3	244.1	218.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	399.3	399.3	396.7	391.4	386.1	380.7	375.4
115°	462.0	463.8	465.0	465.7	466.4	467.1	467.9
117.5°	517.0	518.4	519.2	519.3	519.4	519.6	519.8
120°	553.3	554.7	555.4	555.4	555.4	555.4	555.4
122.5°	588.3	589.2	589.9	589.9	590.1	590.3	590.4
125°	637.6	637.9	638.3	638.7	639.0	639.4	639.7
127.5°	687.9	688.5	688.6	688.2	687.9	687.5	687.1
130°	718.2	718.9	719.1	718.7	718.4	718.0	717.7
132.5°	746.9	747.6	747.7	747.2	746.7	746.2	745.7
135°	790.1	790.6	790.6	790.1	789.6	789.0	788.5
137.5°	829.1	830.0	830.2	829.8	829.5	829.1	828.8
140°	853.5	854.2	854.4	854.1	853.7	853.3	852.9
142.5°	876.6	877.2	877.2	876.7	876.2	875.8	875.2
145°	908.9	909.3	909.4	909.4	909.4	909.4	909.4
147.5°	938.0	938.4	938.2	937.4	936.5	935.7	934.9
150°	955.8	956.2	956.2	955.6	955.1	954.6	954.0
152.5°	972.0	972.6	972.6	971.7	970.9	970.1	969.3
155°	994.0	995.0	994.8	993.8	992.8	991.7	990.6
157.5°	1013.2	1014.2	1014.1	1012.7	1011.4	1010.0	1008.6
160°	1024.1	1025.1	1025.0	1023.7	1022.5	1021.3	1020.0
162.5°	1034.0	1035.2	1035.2	1034.2	1033.1	1032.0	1030.9
165°	1047.3	1048.8	1048.8	1047.7	1046.4	1045.1	1043.9
167.5°	1057.6	1059.0	1059.0	1057.6	1056.1	1054.7	1053.3
170°	1063.3	1064.7	1064.7	1063.3	1061.8	1060.4	1059.1
172.5°	1067.1	1068.5	1068.4	1066.9	1065.3	1063.7	1062.2
175°	1071.5	1072.8	1072.7	1071.3	1069.8	1068.4	1067.0
177.5°	1073.1	1074.2	1074.1	1072.7	1071.3	1069.8	1068.4
180°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0

(END OF REPORT)