

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: P332222-927

Luminaire Tested: **S123DIW-S1165D1030U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332222-927
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: S123DIW-S1165D1030U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7147.4 lumens
Efficiency: N/A
Efficacy: 106.0 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

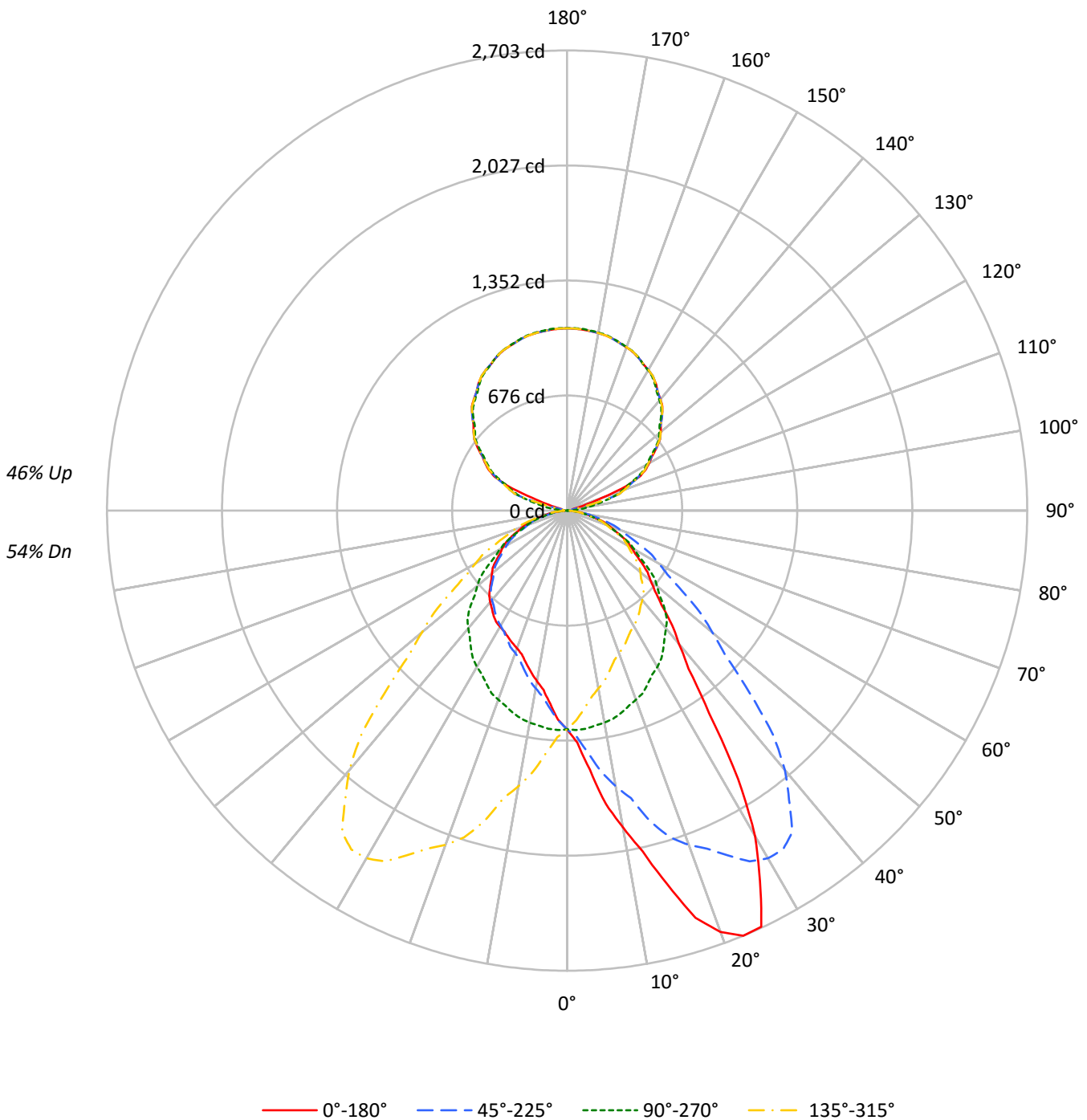
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28	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	25	28	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	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13832	13832	13832	13832
5°	16495	13891	12310	13891
10°	20647	13821	11119	13821
15°	25324	13710	10351	13710
20°	30166	13536	9856	13536
25°	32033	13324	9745	13324
30°	27455	13170	9797	13170
35°	19094	12951	9900	12951
40°	14383	12694	9868	12694
45°	11942	12310	9742	12310
50°	10697	11531	9656	11531
55°	10001	10691	9533	10691
60°	9382	9810	9436	9810
65°	8818	8945	9133	8945
70°	8271	7956	8699	7956
75°	7407	6966	7977	6966
80°	6484	5709	6868	5709
85°	5076	4150	4619	4150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.8
10°-20°	405.9	5.7
20°-30°	681.2	9.5
30°-40°	771.4	10.8
40°-50°	691.7	9.7
50°-60°	558.2	7.8
60°-70°	389.0	5.4
70°-80°	204.5	2.9
80°-90°	53.0	0.7
90°-100°	38.9	0.5
100°-110°	185.6	2.6
110°-120°	445.8	6.2
120°-130°	567.6	7.9
130°-140°	606.5	8.5
140°-150°	567.1	7.9
150°-160°	457.5	6.4
160°-170°	295.2	4.1
170°-180°	101.8	1.4
0°-30°	1213.7	17.0
0°-40°	1985.1	27.8
0°-60°	3235.0	45.3
0°-90°	3881.5	54.3
90°-120°	670.3	9.4
90°-150°	2411.5	33.7
90°-180°	3266.0	45.7
0°-180°	7147.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1285	1285	1285	1285	1285	
5°	1527	1286	1139	1286	1527	158
15°	2272	1230	929	1230	2272	656
25°	2697	1122	820	1122	2697	1183
35°	1453	986	753	986	1453	944
45°	784	809	640	809	784	621
55°	533	570	508	570	533	478
65°	346	351	359	351	346	345
75°	178	168	192	168	178	191
85°	41	34	37	34	41	49
90°	24	1	24	1	24	13
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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1363.7	1362.7	1360.3	1362.2	1358.3	1352.7	1352.3	1347.3	1332.8	1331.8	1327.9
5°	1526.6	1521.6	1521.0	1520.4	1511.6	1499.8	1477.4	1475.5	1445.7	1430.7	1412.7
7.5°	1737.5	1740.1	1731.1	1723.1	1696.5	1678.9	1654.9	1624.1	1587.4	1550.1	1525.3
10°	1889.0	1909.5	1884.0	1866.5	1850.4	1819.8	1784.4	1740.1	1695.9	1644.3	1605.0
12.5°	2051.4	2061.4	2056.3	2039.9	2014.7	1968.3	1905.4	1856.7	1816.0	1730.0	1695.2
15°	2272.5	2310.5	2286.2	2230.2	2231.3	2187.1	2105.0	2014.7	1966.8	1891.4	1788.7
17.5°	2508.0	2512.8	2502.4	2455.8	2424.6	2363.9	2288.1	2201.5	2104.4	2013.3	1904.2
20°	2633.5	2629.8	2608.0	2583.8	2530.2	2482.9	2400.1	2303.6	2179.1	2089.5	1970.5
22.5°	2703.3	2697.1	2686.8	2666.4	2621.9	2571.0	2496.7	2391.3	2272.7	2149.2	2011.8
25°	2697.1	2705.1	2706.4	2700.8	2685.3	2654.8	2596.2	2512.2	2393.9	2235.1	2091.9
27.5°	2453.0	2464.5	2497.8	2527.2	2560.3	2593.8	2589.3	2547.7	2460.1	2323.0	2147.9
30°	2208.9	2184.0	2245.7	2323.5	2376.5	2469.8	2522.1	2525.2	2476.0	2358.4	2187.8
32.5°	1870.3	1897.7	1924.9	2020.7	2136.4	2241.2	2345.3	2429.1	2438.7	2360.4	2211.2
35°	1453.1	1487.4	1537.2	1587.0	1711.5	1818.6	2001.6	2161.0	2288.1	2304.9	2213.3
37.5°	1171.0	1187.9	1219.4	1269.3	1350.8	1477.8	1619.4	1820.8	2004.9	2141.7	2147.7
40°	1023.6	1028.5	1064.0	1102.0	1168.0	1272.6	1400.2	1578.3	1798.6	1989.8	2069.5
42.5°	913.0	923.9	939.0	975.5	1028.0	1106.8	1225.4	1372.5	1574.5	1794.5	1950.4
45°	784.5	796.9	806.3	830.5	867.9	920.8	1003.6	1138.1	1291.9	1519.1	1728.9
47.5°	699.6	700.5	707.5	725.8	751.2	790.9	849.5	935.9	1077.1	1261.4	1476.8
50°	638.8	648.7	651.3	665.5	685.5	714.7	763.3	836.8	952.6	1114.4	1312.4
52.5°	596.0	599.0	605.9	616.2	633.7	656.5	698.5	756.1	847.0	984.9	1167.0
55°	532.9	532.9	539.8	547.9	557.9	578.4	606.4	648.7	717.9	824.9	975.6
57.5°	474.7	477.8	482.6	485.1	493.6	507.2	530.6	562.7	614.3	696.6	816.5
60°	435.8	441.4	440.8	445.8	453.3	463.8	483.8	509.9	556.0	621.9	722.9
62.5°	402.0	401.6	401.5	407.4	414.9	425.0	437.9	460.6	499.7	558.3	644.1
65°	346.2	344.9	349.3	353.0	355.5	363.0	373.0	392.8	419.0	462.6	529.2
67.5°	296.6	293.0	295.3	296.6	300.9	306.7	316.0	328.4	349.1	384.1	434.4
70°	262.8	259.6	259.0	260.2	264.0	268.3	275.2	287.0	306.3	334.3	371.1
72.5°	227.8	225.8	225.6	228.4	230.1	233.0	237.8	248.7	264.0	285.0	319.2
75°	178.1	178.1	178.1	178.7	180.5	183.1	186.8	192.3	204.2	219.1	242.2
77.5°	133.5	133.3	132.6	132.5	135.2	136.3	137.2	142.4	149.0	159.1	175.9
80°	104.6	101.5	102.7	104.6	105.8	106.5	108.4	109.6	115.2	120.8	132.6
82.5°	77.7	75.1	75.3	78.2	78.4	79.1	81.0	82.7	84.8	89.9	96.3
85°	41.1	41.1	41.7	41.7	42.3	41.7	43.6	44.2	44.2	47.3	51.0
87.5°	19.7	18.6	19.1	19.5	18.9	19.3	19.6	20.0	20.4	20.8	20.8
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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1324.8	1320.9	1316.9	1310.0	1303.9	1295.5	1293.0	1290.0	1281.0	1273.1	1267.1
5°	1405.8	1390.8	1369.0	1349.2	1333.0	1311.2	1298.7	1285.6	1266.9	1250.1	1236.4
7.5°	1490.5	1461.1	1427.2	1390.6	1356.5	1323.7	1297.1	1273.4	1247.3	1222.5	1203.2
10°	1557.7	1515.4	1468.1	1417.1	1373.4	1331.1	1295.6	1264.5	1230.9	1201.6	1177.3
12.5°	1634.4	1571.7	1506.4	1444.4	1392.9	1334.1	1291.1	1251.6	1213.5	1178.2	1151.0
15°	1725.2	1645.5	1568.3	1483.0	1404.5	1331.1	1280.1	1230.3	1186.1	1149.9	1115.1
17.5°	1807.9	1717.6	1615.9	1512.1	1417.5	1330.4	1258.9	1202.6	1147.3	1103.1	1068.3
20°	1854.7	1752.0	1636.8	1529.1	1424.5	1327.4	1249.0	1181.7	1121.9	1075.2	1036.0
22.5°	1895.1	1774.9	1655.7	1540.6	1424.0	1319.4	1230.5	1161.3	1096.5	1050.8	1009.1
25°	1936.9	1793.1	1673.6	1538.4	1408.3	1300.0	1200.4	1121.9	1057.2	1003.6	960.7
27.5°	1972.8	1791.8	1650.0	1504.7	1383.6	1275.1	1168.7	1084.6	1015.8	957.7	914.1
30°	1996.6	1794.3	1625.6	1481.8	1359.8	1247.7	1144.3	1059.6	987.5	928.3	887.2
32.5°	2011.6	1792.8	1603.1	1449.9	1321.9	1222.7	1117.9	1030.2	956.1	897.9	858.3
35°	2020.3	1781.9	1564.6	1384.0	1260.8	1164.3	1076.5	985.6	907.8	853.6	808.7
37.5°	2002.9	1758.8	1519.7	1320.5	1185.6	1090.5	1016.7	939.2	864.7	805.2	766.5
40°	1975.5	1743.9	1484.9	1275.7	1133.8	1042.2	979.4	903.4	829.9	773.2	737.1
42.5°	1923.2	1713.5	1446.5	1225.9	1080.0	988.4	930.5	867.0	797.6	744.3	708.3
45°	1795.6	1647.3	1389.0	1151.2	1000.5	905.9	854.8	808.7	745.8	694.2	663.1
47.5°	1618.5	1547.9	1305.8	1072.4	917.6	826.6	773.5	736.4	690.5	648.7	618.9
50°	1495.5	1466.2	1249.5	1018.6	862.3	773.2	722.2	688.6	655.6	613.9	586.5
52.5°	1353.5	1371.6	1183.8	962.7	806.0	718.5	670.4	643.7	613.8	579.5	555.6
55°	1153.7	1219.0	1070.2	869.1	722.2	638.8	593.3	569.7	552.2	526.7	506.2
57.5°	966.5	1049.7	947.5	772.6	639.9	567.9	524.3	498.6	487.4	474.0	457.9
60°	855.5	937.6	859.8	707.9	584.6	516.1	477.5	455.7	444.5	435.2	421.5
62.5°	756.3	839.5	774.1	642.1	530.3	466.8	433.2	411.9	403.2	398.3	386.7
65°	620.1	691.7	648.1	539.8	452.7	396.6	366.1	351.2	343.0	341.2	333.7
67.5°	504.7	559.2	527.4	447.7	379.1	330.7	304.8	292.2	285.9	285.3	279.6
70°	429.0	480.0	455.7	383.5	324.4	286.4	264.0	252.8	249.1	248.4	245.3
72.5°	370.2	405.8	386.5	326.2	280.5	246.1	229.6	217.9	213.7	214.5	212.5
75°	273.9	300.7	289.5	247.8	211.0	188.6	174.9	167.5	163.7	165.6	163.1
77.5°	197.1	214.0	204.0	175.1	152.4	136.3	126.1	121.5	118.2	118.0	116.9
80°	148.8	158.8	153.1	135.7	117.1	103.4	95.2	92.1	90.3	89.7	89.0
82.5°	106.0	114.5	107.8	95.9	83.2	74.9	70.3	66.2	64.9	65.3	64.6
85°	53.6	56.6	54.2	46.7	41.7	37.9	35.5	33.6	32.4	33.0	31.8
87.5°	21.3	21.4	19.4	17.0	15.7	13.8	13.5	12.1	11.5	11.8	11.6
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



TEST NUMBER: P332222-927

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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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1263.6	1260.1	1255.1	1247.7	1241.7	1232.2	1232.2	1233.7	1233.7	1233.3	1232.2
5°	1225.3	1215.9	1204.8	1191.7	1178.0	1164.3	1161.7	1156.7	1153.0	1150.6	1147.5
7.5°	1184.8	1168.2	1151.9	1133.6	1116.9	1103.1	1093.5	1085.5	1080.5	1075.0	1071.0
10°	1157.4	1136.9	1117.5	1098.3	1077.1	1060.3	1049.7	1042.2	1036.6	1031.7	1029.1
12.5°	1125.1	1101.5	1080.2	1061.9	1038.7	1021.4	1011.4	1007.8	1001.2	990.8	985.3
15°	1077.7	1055.9	1030.4	1002.3	991.2	970.0	958.1	952.6	948.8	940.7	938.3
17.5°	1037.2	1008.7	980.1	959.2	938.3	921.1	914.6	907.6	902.6	896.0	894.1
20°	1004.9	979.4	953.2	930.8	908.9	890.3	884.7	879.7	874.7	871.6	869.1
22.5°	972.0	946.5	924.8	903.9	880.6	868.4	862.3	856.8	853.3	851.2	848.7
25°	925.8	903.4	879.1	860.4	841.8	833.6	829.9	826.8	824.3	821.2	820.5
27.5°	884.5	860.1	840.3	822.9	809.5	802.8	799.2	797.6	798.2	799.3	800.0
30°	853.6	831.2	815.0	800.0	787.6	781.3	780.7	780.7	783.2	783.9	785.1
32.5°	825.2	806.8	790.6	776.1	766.7	762.4	764.8	764.8	766.8	768.4	770.6
35°	783.9	767.6	755.2	742.8	734.7	736.5	737.8	739.0	742.1	745.8	748.4
37.5°	744.3	730.3	717.3	707.7	703.9	707.3	710.3	712.9	716.4	719.4	721.8
40°	716.0	705.4	692.9	684.2	685.5	687.4	689.8	692.9	696.1	697.9	700.4
42.5°	689.6	678.5	669.1	661.8	663.5	665.9	667.4	669.1	672.6	676.0	677.5
45°	649.4	640.6	631.9	627.6	628.8	630.1	631.3	633.2	636.3	638.8	639.4
47.5°	604.2	598.1	592.2	588.0	589.9	589.5	591.1	595.1	596.0	597.5	601.0
50°	575.3	569.7	562.8	561.6	561.6	561.6	562.2	567.2	567.2	569.7	572.2
52.5°	543.4	539.8	535.4	533.2	532.2	532.2	534.8	537.3	538.3	541.8	544.3
55°	496.2	492.5	488.7	486.9	485.6	486.9	491.9	493.1	496.2	498.0	499.9
57.5°	447.0	444.2	441.2	440.1	439.9	441.6	444.3	448.0	448.8	454.5	457.3
60°	414.6	410.3	407.8	407.8	406.5	412.2	410.9	417.2	418.4	422.2	426.5
62.5°	381.3	375.4	374.5	374.5	376.2	377.8	379.5	382.3	385.5	390.2	393.6
65°	327.5	324.4	328.8	328.1	326.9	330.6	330.6	333.7	337.5	341.8	348.6
67.5°	276.6	275.0	275.3	275.3	277.2	279.3	281.1	283.8	288.3	292.9	297.4
70°	242.2	244.1	241.0	243.4	245.3	245.9	247.2	250.9	255.9	259.0	264.0
72.5°	208.8	208.7	209.1	210.1	211.9	213.0	214.3	218.6	224.0	226.6	230.6
75°	160.7	160.0	161.8	161.8	165.0	166.2	167.5	169.4	174.4	178.1	181.2
77.5°	117.3	118.0	117.6	119.8	118.9	119.1	123.0	124.9	125.4	132.8	134.4
80°	88.4	89.7	90.3	90.9	91.5	90.3	94.7	96.5	96.5	100.8	103.9
82.5°	63.5	64.2	65.9	66.5	66.6	67.9	68.2	69.6	71.1	73.0	77.1
85°	31.8	33.6	34.2	33.6	34.2	33.0	34.9	35.5	36.1	36.1	36.1
87.5°	11.6	12.4	12.4	13.4	13.3	14.3	14.4	13.5	13.7	15.4	13.5
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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1228.8	1228.3	1231.8	1229.2	1231.8	1228.3	1228.8	1232.2	1233.3	1233.7	1233.7
5°	1143.7	1145.6	1139.3	1139.3	1139.3	1145.6	1143.7	1147.5	1150.6	1153.0	1156.7
7.5°	1068.0	1065.2	1065.5	1062.2	1065.5	1065.2	1068.0	1071.0	1075.0	1080.5	1085.5
10°	1021.7	1018.0	1016.7	1017.3	1016.7	1018.0	1021.7	1029.1	1031.7	1036.6	1042.2
12.5°	983.3	982.5	974.4	974.5	974.4	982.5	983.3	985.3	990.8	1001.2	1007.8
15°	938.3	926.5	925.2	928.9	925.2	926.5	938.3	938.3	940.7	948.8	952.6
17.5°	893.0	886.8	887.2	885.3	887.2	886.8	893.0	894.1	896.0	902.6	907.6
20°	869.1	865.4	864.7	860.4	864.7	865.4	869.1	869.1	871.6	874.7	879.7
22.5°	847.2	846.0	846.4	841.5	846.4	846.0	847.2	848.7	851.2	853.3	856.8
25°	820.0	823.1	820.5	820.5	820.5	823.1	820.0	820.5	821.2	824.3	826.8
27.5°	801.5	801.4	800.2	800.2	800.2	801.4	801.5	800.0	799.3	798.2	797.6
30°	787.6	787.0	788.2	788.2	788.2	787.0	787.6	785.1	783.9	783.2	780.7
32.5°	773.6	774.5	774.8	775.2	774.8	774.5	773.6	770.6	768.4	766.8	764.8
35°	752.1	752.7	754.6	753.4	754.6	752.7	752.1	748.4	745.8	742.1	739.0
37.5°	722.9	725.8	725.2	726.2	725.2	725.8	722.9	721.8	719.4	716.4	712.9
40°	701.0	702.9	702.3	702.3	702.3	702.9	701.0	700.4	697.9	696.1	692.9
42.5°	678.7	680.0	678.3	677.4	678.3	680.0	678.7	677.5	676.0	672.6	669.1
45°	641.9	640.6	642.5	640.0	642.5	640.6	641.9	639.4	638.8	636.3	633.2
47.5°	600.8	602.1	602.5	604.4	602.5	602.1	600.8	601.0	597.5	596.0	595.1
50°	573.4	577.1	577.1	576.6	577.1	577.1	573.4	572.2	569.7	567.2	567.2
52.5°	546.5	548.3	550.7	550.6	550.7	548.3	546.5	544.3	541.8	538.3	537.3
55°	504.9	506.2	507.4	508.0	507.4	506.2	504.9	499.9	498.0	496.2	493.1
57.5°	461.8	461.4	464.3	465.2	464.3	461.4	461.8	457.3	454.5	448.8	448.0
60°	431.4	431.4	436.4	438.3	436.4	431.4	431.4	426.5	422.2	418.4	417.2
62.5°	399.1	401.1	406.1	403.5	406.1	401.1	399.1	393.6	390.2	385.5	382.3
65°	351.7	356.7	356.1	358.6	356.1	356.7	351.7	348.6	341.8	337.5	333.7
67.5°	302.3	305.5	309.9	310.3	309.9	305.5	302.3	297.4	292.9	288.3	283.8
70°	268.9	272.0	274.6	276.4	274.6	272.0	268.9	264.0	259.0	255.9	250.9
72.5°	236.6	238.2	244.2	241.5	244.2	238.2	236.6	230.6	226.6	224.0	218.6
75°	185.5	189.9	193.6	191.8	193.6	189.9	185.5	181.2	178.1	174.4	169.4
77.5°	137.2	141.6	143.3	141.7	143.3	141.6	137.2	134.4	132.8	125.4	124.9
80°	108.4	107.7	111.5	110.8	111.5	107.7	108.4	103.9	100.8	96.5	96.5
82.5°	79.5	78.8	80.6	81.0	80.6	78.8	79.5	77.1	73.0	71.1	69.6
85°	38.6	40.5	37.9	37.4	37.9	40.5	38.6	36.1	36.1	36.1	35.5
87.5°	13.5	13.6	13.2	12.8	13.2	13.6	13.5	13.5	15.4	13.7	13.5
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: P332222-927

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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



TEST NUMBER: P332222-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1232.2	1232.2	1241.7	1247.7	1255.1	1260.1	1263.6	1267.1	1273.1	1281.0	1290.0
5°	1161.7	1164.3	1178.0	1191.7	1204.8	1215.9	1225.3	1236.4	1250.1	1266.9	1285.6
7.5°	1093.5	1103.1	1116.9	1133.6	1151.9	1168.2	1184.8	1203.2	1222.5	1247.3	1273.4
10°	1049.7	1060.3	1077.1	1098.3	1117.5	1136.9	1157.4	1177.3	1201.6	1230.9	1264.5
12.5°	1011.4	1021.4	1038.7	1061.9	1080.2	1101.5	1125.1	1151.0	1178.2	1213.5	1251.6
15°	958.1	970.0	991.2	1002.3	1030.4	1055.9	1077.7	1115.1	1149.9	1186.1	1230.3
17.5°	914.6	921.1	938.3	959.2	980.1	1008.7	1037.2	1068.3	1103.1	1147.3	1202.6
20°	884.7	890.3	908.9	930.8	953.2	979.4	1004.9	1036.0	1075.2	1121.9	1181.7
22.5°	862.3	868.4	880.6	903.9	924.8	946.5	972.0	1009.1	1050.8	1096.5	1161.3
25°	829.9	833.6	841.8	860.4	879.1	903.4	925.8	960.7	1003.6	1057.2	1121.9
27.5°	799.2	802.8	809.5	822.9	840.3	860.1	884.5	914.1	957.7	1015.8	1084.6
30°	780.7	781.3	787.6	800.0	815.0	831.2	853.6	887.2	928.3	987.5	1059.6
32.5°	764.8	762.4	766.7	776.1	790.6	806.8	825.2	858.3	897.9	956.1	1030.2
35°	737.8	736.5	734.7	742.8	755.2	767.6	783.9	808.7	853.6	907.8	985.6
37.5°	710.3	707.3	703.9	707.7	717.3	730.3	744.3	766.5	805.2	864.7	939.2
40°	689.8	687.4	685.5	684.2	692.9	705.4	716.0	737.1	773.2	829.9	903.4
42.5°	667.4	665.9	663.5	661.8	669.1	678.5	689.6	708.3	744.3	797.6	867.0
45°	631.3	630.1	628.8	627.6	631.9	640.6	649.4	663.1	694.2	745.8	808.7
47.5°	591.1	589.5	589.9	588.0	592.2	598.1	604.2	618.9	648.7	690.5	736.4
50°	562.2	561.6	561.6	561.6	562.8	569.7	575.3	586.5	613.9	655.6	688.6
52.5°	534.8	532.2	532.2	533.2	535.4	539.8	543.4	555.6	579.5	613.8	643.7
55°	491.9	486.9	485.6	486.9	488.7	492.5	496.2	506.2	526.7	552.2	569.7
57.5°	444.3	441.6	439.9	440.1	441.2	444.2	447.0	457.9	474.0	487.4	498.6
60°	410.9	412.2	406.5	407.8	407.8	410.3	414.6	421.5	435.2	444.5	455.7
62.5°	379.5	377.8	376.2	374.5	374.5	375.4	381.3	386.7	398.3	403.2	411.9
65°	330.6	330.6	326.9	328.1	328.8	324.4	327.5	333.7	341.2	343.0	351.2
67.5°	281.1	279.3	277.2	275.3	275.3	275.0	276.6	279.6	285.3	285.9	292.2
70°	247.2	245.9	245.3	243.4	241.0	244.1	242.2	245.3	248.4	249.1	252.8
72.5°	214.3	213.0	211.9	210.1	209.1	208.7	208.8	212.5	214.5	213.7	217.9
75°	167.5	166.2	165.0	161.8	161.8	160.0	160.7	163.1	165.6	163.7	167.5
77.5°	123.0	119.1	118.9	119.8	117.6	118.0	117.3	116.9	118.0	118.2	121.5
80°	94.7	90.3	91.5	90.9	90.3	89.7	88.4	89.0	89.7	90.3	92.1
82.5°	68.2	67.9	66.6	66.5	65.9	64.2	63.5	64.6	65.3	64.9	66.2
85°	34.9	33.0	34.2	33.6	34.2	33.6	31.8	31.8	33.0	32.4	33.6
87.5°	14.4	14.3	13.3	13.4	12.4	12.4	11.6	11.6	11.8	11.5	12.1
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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1293.0	1295.5	1303.9	1310.0	1316.9	1320.9	1324.8	1327.9	1331.8	1332.8	1347.3
5°	1298.7	1311.2	1333.0	1349.2	1369.0	1390.8	1405.8	1412.7	1430.7	1445.7	1475.5
7.5°	1297.1	1323.7	1356.5	1390.6	1427.2	1461.1	1490.5	1525.3	1550.1	1587.4	1624.1
10°	1295.6	1331.1	1373.4	1417.1	1468.1	1515.4	1557.7	1605.0	1644.3	1695.9	1740.1
12.5°	1291.1	1334.1	1392.9	1444.4	1506.4	1571.7	1634.4	1695.2	1730.0	1816.0	1856.7
15°	1280.1	1331.1	1404.5	1483.0	1568.3	1645.5	1725.2	1788.7	1891.4	1966.8	2014.7
17.5°	1258.9	1330.4	1417.5	1512.1	1615.9	1717.6	1807.9	1904.2	2013.3	2104.4	2201.5
20°	1249.0	1327.4	1424.5	1529.1	1636.8	1752.0	1854.7	1970.5	2089.5	2179.1	2303.6
22.5°	1230.5	1319.4	1424.0	1540.6	1655.7	1774.9	1895.1	2011.8	2149.2	2272.7	2391.3
25°	1200.4	1300.0	1408.3	1538.4	1673.6	1793.1	1936.9	2091.9	2235.1	2393.9	2512.2
27.5°	1168.7	1275.1	1383.6	1504.7	1650.0	1791.8	1972.8	2147.9	2323.0	2460.1	2547.7
30°	1144.3	1247.7	1359.8	1481.8	1625.6	1794.3	1996.6	2187.8	2358.4	2476.0	2525.2
32.5°	1117.9	1222.7	1321.9	1449.9	1603.1	1792.8	2011.6	2211.2	2360.4	2438.7	2429.1
35°	1076.5	1164.3	1260.8	1384.0	1564.6	1781.9	2020.3	2213.3	2304.9	2288.1	2161.0
37.5°	1016.7	1090.5	1185.6	1320.5	1519.7	1758.8	2002.9	2147.7	2141.7	2004.9	1820.8
40°	979.4	1042.2	1133.8	1275.7	1484.9	1743.9	1975.5	2069.5	1989.8	1798.6	1578.3
42.5°	930.5	988.4	1080.0	1225.9	1446.5	1713.5	1923.2	1950.4	1794.5	1574.5	1372.5
45°	854.8	905.9	1000.5	1151.2	1389.0	1647.3	1795.6	1728.9	1519.1	1291.9	1138.1
47.5°	773.5	826.6	917.6	1072.4	1305.8	1547.9	1618.5	1476.8	1261.4	1077.1	935.9
50°	722.2	773.2	862.3	1018.6	1249.5	1466.2	1495.5	1312.4	1114.4	952.6	836.8
52.5°	670.4	718.5	806.0	962.7	1183.8	1371.6	1353.5	1167.0	984.9	847.0	756.1
55°	593.3	638.8	722.2	869.1	1070.2	1219.0	1153.7	975.6	824.9	717.9	648.7
57.5°	524.3	567.9	639.9	772.6	947.5	1049.7	966.5	816.5	696.6	614.3	562.7
60°	477.5	516.1	584.6	707.9	859.8	937.6	855.5	722.9	621.9	556.0	509.9
62.5°	433.2	466.8	530.3	642.1	774.1	839.5	756.3	644.1	558.3	499.7	460.6
65°	366.1	396.6	452.7	539.8	648.1	691.7	620.1	529.2	462.6	419.0	392.8
67.5°	304.8	330.7	379.1	447.7	527.4	559.2	504.7	434.4	384.1	349.1	328.4
70°	264.0	286.4	324.4	383.5	455.7	480.0	429.0	371.1	334.3	306.3	287.0
72.5°	229.6	246.1	280.5	326.2	386.5	405.8	370.2	319.2	285.0	264.0	248.7
75°	174.9	188.6	211.0	247.8	289.5	300.7	273.9	242.2	219.1	204.2	192.3
77.5°	126.1	136.3	152.4	175.1	204.0	214.0	197.1	175.9	159.1	149.0	142.4
80°	95.2	103.4	117.1	135.7	153.1	158.8	148.8	132.6	120.8	115.2	109.6
82.5°	70.3	74.9	83.2	95.9	107.8	114.5	106.0	96.3	89.9	84.8	82.7
85°	35.5	37.9	41.7	46.7	54.2	56.6	53.6	51.0	47.3	44.2	44.2
87.5°	13.5	13.8	15.7	17.0	19.4	21.4	21.3	20.8	20.8	20.4	20.0
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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1352.3	1352.7	1358.3	1362.2	1360.3	1362.7	1363.7
5°	1477.4	1499.8	1511.6	1520.4	1521.0	1521.6	1526.6
7.5°	1654.9	1678.9	1696.5	1723.1	1731.1	1740.1	1737.5
10°	1784.4	1819.8	1850.4	1866.5	1884.0	1909.5	1889.0
12.5°	1905.4	1968.3	2014.7	2039.9	2056.3	2061.4	2051.4
15°	2105.0	2187.1	2231.3	2230.2	2286.2	2310.5	2272.5
17.5°	2288.1	2363.9	2424.6	2455.8	2502.4	2512.8	2508.0
20°	2400.1	2482.9	2530.2	2583.8	2608.0	2629.8	2633.5
22.5°	2496.7	2571.0	2621.9	2666.4	2686.8	2697.1	2703.3
25°	2596.2	2654.8	2685.3	2700.8	2706.4	2705.1	2697.1
27.5°	2589.3	2593.8	2560.3	2527.2	2497.8	2464.5	2453.0
30°	2522.1	2469.8	2376.5	2323.5	2245.7	2184.0	2208.9
32.5°	2345.3	2241.2	2136.4	2020.7	1924.9	1897.7	1870.3
35°	2001.6	1818.6	1711.5	1587.0	1537.2	1487.4	1453.1
37.5°	1619.4	1477.8	1350.8	1269.3	1219.4	1187.9	1171.0
40°	1400.2	1272.6	1168.0	1102.0	1064.0	1028.5	1023.6
42.5°	1225.4	1106.8	1028.0	975.5	939.0	923.9	913.0
45°	1003.6	920.8	867.9	830.5	806.3	796.9	784.5
47.5°	849.5	790.9	751.2	725.8	707.5	700.5	699.6
50°	763.3	714.7	685.5	665.5	651.3	648.7	638.8
52.5°	698.5	656.5	633.7	616.2	605.9	599.0	596.0
55°	606.4	578.4	557.9	547.9	539.8	532.9	532.9
57.5°	530.6	507.2	493.6	485.1	482.6	477.8	474.7
60°	483.8	463.8	453.3	445.8	440.8	441.4	435.8
62.5°	437.9	425.0	414.9	407.4	401.5	401.6	402.0
65°	373.0	363.0	355.5	353.0	349.3	344.9	346.2
67.5°	316.0	306.7	300.9	296.6	295.3	293.0	296.6
70°	275.2	268.3	264.0	260.2	259.0	259.6	262.8
72.5°	237.8	233.0	230.1	228.4	225.6	225.8	227.8
75°	186.8	183.1	180.5	178.7	178.1	178.1	178.1
77.5°	137.2	136.3	135.2	132.5	132.6	133.3	133.5
80°	108.4	106.5	105.8	104.6	102.7	101.5	104.6
82.5°	81.0	79.1	78.4	78.2	75.3	75.1	77.7
85°	43.6	41.7	42.3	41.7	41.7	41.1	41.1
87.5°	19.6	19.3	18.9	19.5	19.1	18.6	19.7
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)