

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: P332944-935

Luminaire Tested: **SA4XXRDIP-C795D1035U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332944-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C795D1035U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5959.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

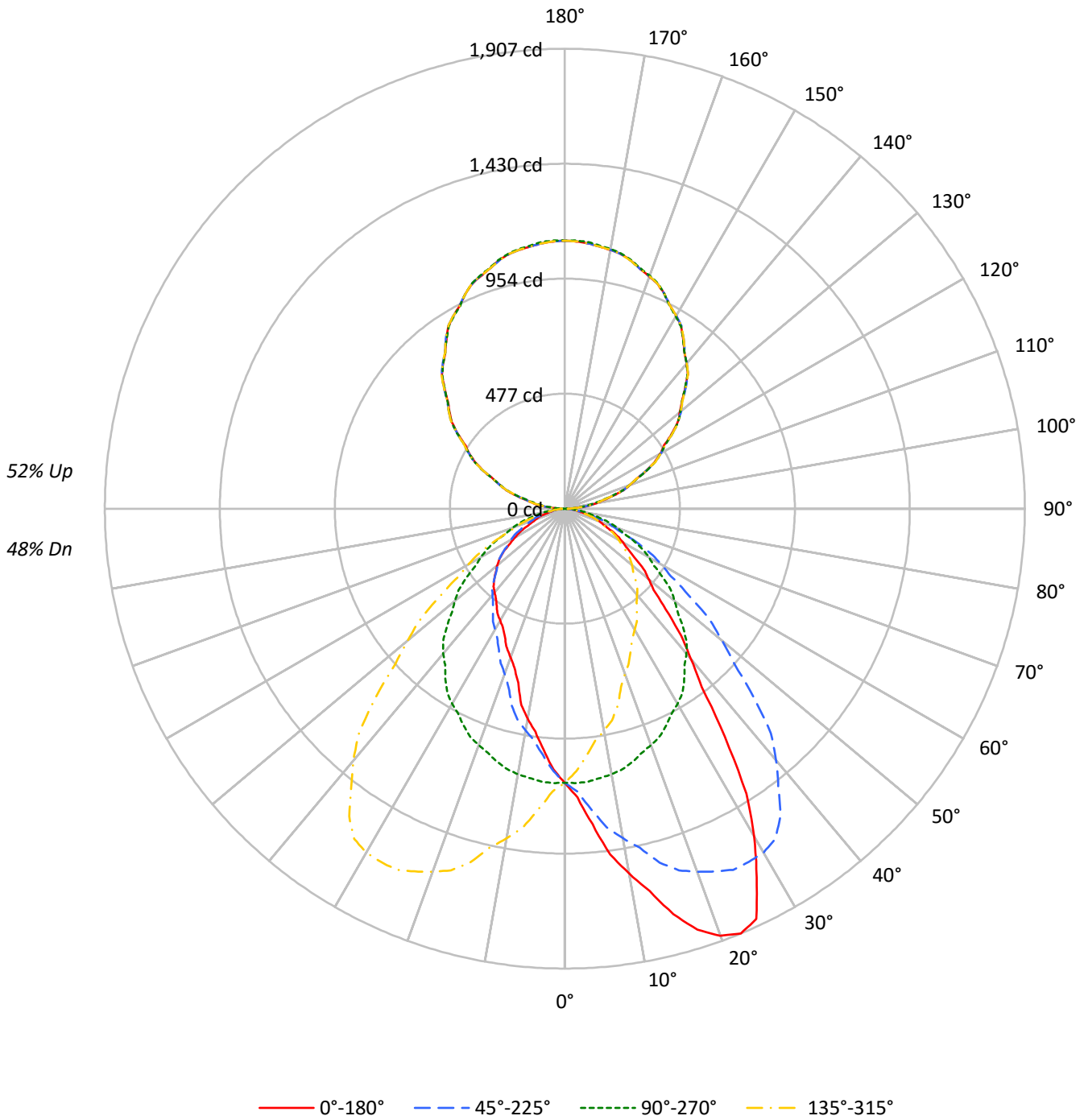
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				48
1	98	94	90	87	90	86	83	80	73	71	69	60	59	57	49	48	47				42	
2	89	82	76	71	82	76	71	67	64	61	57	54	51	49	44	42	40				36	
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	37	35				31	
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30				27	
5	69	58	50	44	63	54	47	41	46	40	36	39	35	31	32	29	27				23	
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24				21	
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21				18	
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19				17	
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	23	19	17				15	
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16				14	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9175	9175	9175	9175
5°	10643	9203	8135	9203
10°	12591	9163	7260	9163
15°	14543	9078	6238	9078
20°	16192	8961	5642	8961
25°	16715	8847	5238	8847
30°	14632	8708	4994	8708
35°	11391	8502	4847	8502
40°	8541	8266	4769	8266
45°	6744	7889	4727	7889
50°	5693	7454	4589	7454
55°	4963	6973	4345	6973
60°	4466	6476	3846	6476
65°	3935	5939	3307	5939
70°	3545	5384	2984	5384
75°	2969	4769	2542	4769
80°	2515	4068	2385	4068
85°	2121	3186	2121	3186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.8
10°-20°	332.2	5.6
20°-30°	519.5	8.7
30°-40°	577.6	9.7
40°-50°	512.4	8.6
50°-60°	399.3	6.7
60°-70°	261.4	4.4
70°-80°	128.6	2.2
80°-90°	35.0	0.6
90°-100°	73.3	1.2
100°-110°	217.1	3.6
110°-120°	368.5	6.2
120°-130°	485.9	8.2
130°-140°	545.7	9.2
140°-150°	536.2	9.0
150°-160°	451.0	7.6
160°-170°	300.1	5.0
170°-180°	105.1	1.8
0°-30°	961.8	16.1
0°-40°	1539.4	25.8
0°-60°	2451.2	41.1
0°-90°	2876.2	48.3
90°-120°	658.9	11.1
90°-150°	2226.8	37.4
90°-180°	3083.0	51.7
0°-180°	5959.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1136	1136	1136	1136	1136	
5°	1313	1136	1004	1136	1313	133
15°	1740	1086	746	1086	1740	495
25°	1876	993	588	993	1876	832
35°	1156	863	492	863	1156	724
45°	591	691	414	691	591	468
55°	353	495	309	495	353	321
65°	206	311	173	311	206	207
75°	95	153	82	153	95	105
85°	23	34	23	34	23	26
90°	26	3	26	3	26	14
95°	68	52	68	52	68	71
105°	210	200	210	200	210	221
115°	371	375	371	375	371	367
125°	541	546	541	546	541	483
135°	705	704	705	704	705	544
145°	856	855	856	855	856	536
155°	979	980	979	980	979	451
165°	1064	1066	1064	1066	1064	300
175°	1104	1110	1104	1110	1104	105
180°	1111	1111	1111	1111	1111	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1198.8	1202.1	1198.8	1198.4	1194.8	1193.7	1192.2	1187.5	1178.6	1173.5	1174.7
5°	1313.3	1324.7	1318.4	1317.4	1307.3	1297.3	1290.8	1276.2	1260.6	1250.1	1241.4
7.5°	1445.7	1452.3	1448.3	1441.8	1425.6	1416.3	1401.4	1382.2	1354.3	1332.9	1313.4
10°	1535.9	1541.4	1539.5	1527.6	1515.7	1491.4	1477.6	1450.7	1415.4	1387.5	1361.4
12.5°	1624.4	1630.4	1614.2	1614.8	1592.2	1573.1	1551.3	1517.3	1476.6	1440.6	1407.9
15°	1740.1	1732.8	1732.8	1723.5	1698.4	1671.8	1649.4	1613.7	1562.4	1519.3	1474.0
17.5°	1830.6	1833.1	1829.4	1807.8	1788.0	1760.5	1719.3	1677.7	1630.0	1572.3	1526.0
20°	1884.7	1884.7	1880.7	1866.0	1840.4	1811.0	1766.6	1721.3	1660.9	1602.7	1550.5
22.5°	1906.8	1908.2	1903.3	1891.3	1868.2	1839.6	1801.8	1755.8	1693.4	1628.0	1563.3
25°	1876.5	1885.2	1886.1	1882.9	1876.0	1858.6	1826.2	1779.0	1723.1	1652.2	1582.5
27.5°	1722.9	1733.8	1743.4	1759.3	1780.4	1791.3	1792.8	1768.8	1720.1	1651.7	1581.7
30°	1569.7	1578.9	1608.6	1647.5	1677.8	1705.3	1729.1	1735.5	1708.1	1646.7	1573.0
32.5°	1399.7	1412.2	1442.0	1483.8	1534.2	1580.7	1634.2	1661.5	1660.8	1623.9	1555.7
35°	1155.8	1164.9	1192.4	1236.4	1296.8	1366.0	1450.7	1516.6	1561.5	1558.2	1516.6
37.5°	932.1	942.5	970.3	1006.7	1065.3	1150.9	1232.9	1323.7	1406.7	1453.3	1439.4
40°	810.5	811.0	838.0	875.6	930.5	1005.1	1094.4	1195.2	1287.6	1363.2	1377.9
42.5°	714.5	714.6	732.5	772.9	812.5	882.8	968.0	1068.1	1176.3	1263.6	1302.4
45°	590.7	594.9	609.5	633.8	664.9	724.4	792.6	885.6	1006.9	1110.4	1175.0
47.5°	500.2	506.3	515.6	535.4	560.2	599.9	656.3	739.8	838.5	952.4	1044.2
50°	453.3	454.3	466.1	477.2	498.7	530.3	579.7	649.3	739.9	849.5	951.6
52.5°	413.0	412.8	420.0	433.9	451.4	476.0	516.0	579.4	659.8	757.9	863.2
55°	352.6	354.9	360.4	371.3	384.6	402.1	433.6	481.3	544.5	628.3	723.9
57.5°	306.6	307.8	312.1	316.8	329.0	341.6	365.3	398.4	451.7	520.3	609.5
60°	276.6	277.1	278.4	285.2	294.9	306.8	322.8	350.8	395.6	458.4	528.9
62.5°	247.3	248.1	250.2	255.2	262.7	270.9	287.7	310.1	347.2	400.9	464.4
65°	206.0	206.6	209.7	211.5	217.5	224.8	237.2	252.3	277.9	322.8	370.9
67.5°	172.2	172.2	172.4	174.9	178.9	183.8	191.2	203.3	222.7	250.2	292.6
70°	150.2	150.2	151.1	152.5	154.8	158.9	163.0	172.2	186.4	208.8	241.3
72.5°	129.7	130.0	131.0	131.2	132.4	135.8	138.9	144.7	155.2	172.2	198.5
75°	95.2	96.6	98.9	100.7	103.1	102.5	105.8	109.4	112.6	122.7	137.8
77.5°	70.9	70.2	70.4	72.0	72.2	72.8	75.0	77.8	80.2	85.0	90.4
80°	54.1	54.1	55.4	55.9	55.4	55.9	58.1	59.5	60.4	62.3	67.3
82.5°	40.8	41.6	41.2	41.6	41.8	42.3	44.3	44.5	45.5	46.1	48.3
85°	22.9	23.3	23.8	22.9	22.9	22.9	23.8	24.3	25.2	24.7	25.7
87.5°	13.2	12.7	13.1	13.0	13.3	12.7	12.9	13.4	12.4	12.6	12.2
90°	25.7	25.4	25.1	24.6	24.3	23.5	22.4	21.2	20.1	18.9	17.4
92.5°	38.1	38.0	37.7	37.5	37.3	36.8	36.1	35.4	34.7	34.0	33.0
95°	67.9	67.9	67.9	67.9	67.9	67.6	67.1	66.5	65.9	65.3	64.0
97.5°	106.4	106.4	106.4	106.4	106.4	106.1	105.4	104.7	104.0	103.3	101.8
100°	133.2	133.2	133.2	133.2	133.2	133.0	132.6	132.2	131.9	131.5	129.8
102.5°	163.4	163.3	163.2	163.0	162.8	162.5	162.0	161.4	160.9	160.4	158.8
105°	209.7	209.1	208.5	207.9	207.4	206.8	206.3	205.7	205.1	204.6	203.8
107.5°	254.7	254.8	254.8	254.9	254.9	254.6	254.1	253.6	253.0	252.5	252.4
110°	287.1	286.5	285.9	285.3	284.7	284.6	285.0	285.4	285.8	286.2	286.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	320.0	319.9	319.8	319.7	319.6	319.6	319.6	319.7	319.8	319.9	320.2
115°	371.3	371.4	371.6	371.9	372.0	372.2	372.4	372.6	372.8	373.0	373.3
117.5°	420.1	420.4	420.9	421.2	421.6	422.1	422.8	423.4	424.0	424.7	425.0
120°	457.2	456.8	456.4	456.1	455.6	456.0	456.9	457.9	458.8	459.8	460.4
122.5°	488.1	488.8	489.5	490.2	490.9	491.5	492.2	492.8	493.5	494.1	494.4
125°	541.4	541.8	542.2	542.6	542.9	543.3	543.7	544.1	544.5	544.8	545.0
127.5°	590.7	591.1	591.3	591.7	591.9	592.3	592.7	593.1	593.5	593.8	594.2
130°	623.0	623.8	624.6	625.3	626.1	626.7	627.1	627.5	627.8	628.2	628.2
132.5°	657.5	657.7	658.1	658.3	658.7	659.0	659.4	659.8	660.1	660.6	660.6
135°	704.7	705.2	705.8	706.5	707.0	707.5	707.8	708.3	708.6	709.0	709.0
137.5°	754.4	754.2	754.1	754.1	753.9	754.1	754.6	755.1	755.6	756.1	755.8
140°	784.6	784.8	785.0	785.2	785.4	785.6	785.7	786.0	786.2	786.4	786.4
142.5°	814.9	814.9	814.9	815.0	815.0	815.1	815.1	815.1	815.2	815.2	815.4
145°	855.9	856.5	857.1	857.6	858.2	858.6	858.8	859.0	859.2	859.4	859.2
147.5°	897.6	897.8	897.9	898.1	898.3	898.5	898.6	898.8	899.0	899.1	899.2
150°	923.0	923.2	923.3	923.6	923.8	923.9	923.9	923.9	923.9	923.9	923.9
152.5°	946.3	946.8	947.4	947.9	948.4	948.4	947.9	947.4	947.0	946.5	946.4
155°	978.9	979.6	980.4	981.1	981.9	981.9	981.1	980.4	979.6	978.9	979.0
157.5°	1007.9	1008.6	1009.2	1009.9	1010.5	1010.6	1010.0	1009.4	1008.8	1008.2	1008.3
160°	1024.4	1025.4	1026.3	1027.3	1028.2	1028.4	1027.9	1027.3	1026.7	1026.1	1026.3
162.5°	1041.6	1042.6	1043.5	1044.5	1045.4	1045.3	1044.3	1043.3	1042.2	1041.2	1041.5
165°	1063.9	1064.7	1065.5	1066.3	1067.0	1066.8	1065.7	1064.5	1063.3	1062.2	1062.6
167.5°	1080.0	1081.1	1082.3	1083.5	1084.7	1084.7	1083.6	1082.4	1081.2	1080.1	1080.0
170°	1088.8	1090.2	1091.5	1092.9	1094.2	1094.3	1093.1	1092.0	1090.9	1089.7	1089.5
172.5°	1096.4	1097.8	1099.1	1100.4	1101.7	1101.8	1100.4	1099.2	1097.9	1096.6	1096.6
175°	1104.3	1105.7	1107.0	1108.4	1109.7	1109.7	1108.4	1107.0	1105.7	1104.3	1104.5
177.5°	1108.5	1109.7	1110.9	1112.2	1113.4	1113.4	1112.3	1111.3	1110.2	1109.1	1109.1
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1171.0	1165.9	1163.3	1157.4	1150.5	1146.8	1143.5	1138.8	1132.5	1125.9	1121.1
5°	1230.4	1219.4	1205.7	1189.2	1174.6	1160.4	1148.0	1135.7	1121.5	1106.7	1092.1
7.5°	1291.4	1269.8	1246.5	1219.4	1193.2	1169.2	1147.3	1126.2	1102.3	1081.1	1061.6
10°	1333.9	1304.6	1272.0	1237.8	1203.4	1173.6	1144.4	1117.8	1088.5	1062.4	1040.3
12.5°	1368.3	1333.9	1294.8	1252.0	1210.7	1174.7	1141.0	1106.4	1073.1	1044.7	1015.5
15°	1425.5	1378.3	1325.7	1274.4	1220.8	1171.8	1126.4	1086.2	1048.2	1008.3	980.4
17.5°	1464.7	1408.8	1344.8	1283.1	1219.9	1162.1	1109.8	1061.8	1018.0	977.2	944.0
20°	1488.2	1426.4	1355.4	1285.4	1214.4	1152.5	1096.2	1043.1	997.8	953.8	919.5
22.5°	1501.4	1433.0	1355.4	1282.0	1208.5	1141.6	1079.8	1024.4	975.1	931.1	893.1
25°	1505.6	1432.4	1353.1	1268.9	1188.3	1117.3	1053.2	993.2	938.2	894.3	854.0
27.5°	1499.8	1413.5	1332.3	1245.9	1162.7	1087.9	1020.6	957.6	902.6	855.4	814.1
30°	1491.0	1398.4	1311.5	1221.7	1137.5	1065.6	994.5	934.1	876.9	827.9	786.3
32.5°	1471.9	1380.2	1286.5	1194.6	1109.2	1035.2	967.9	907.1	850.9	800.8	756.6
35°	1434.2	1341.3	1239.6	1145.2	1061.4	984.5	921.4	862.7	809.2	755.5	708.9
37.5°	1384.5	1289.5	1188.4	1085.0	1001.2	928.6	870.6	815.5	763.3	714.4	662.6
40°	1337.6	1251.0	1146.6	1044.0	957.9	887.9	834.3	784.4	731.8	683.2	631.5
42.5°	1280.7	1207.0	1101.6	998.6	913.6	846.1	796.3	747.4	699.5	652.5	598.5
45°	1186.0	1130.1	1031.2	932.3	846.7	779.8	734.0	691.0	648.8	604.0	553.2
47.5°	1077.4	1039.6	954.2	852.9	773.7	713.5	669.3	634.1	598.5	553.6	509.0
50°	1001.9	977.7	895.2	802.7	727.2	671.8	626.5	593.5	563.7	520.6	480.8
52.5°	921.4	908.4	838.8	750.4	677.3	623.0	584.3	554.7	524.5	488.8	451.5
55°	798.6	805.5	746.4	669.9	601.2	555.4	520.2	495.4	469.8	439.6	410.8
57.5°	673.1	698.2	658.6	591.4	527.0	484.7	458.2	437.4	415.9	390.8	366.2
60°	598.1	619.1	596.7	537.6	481.3	441.9	417.2	401.1	379.6	356.7	337.9
62.5°	524.8	547.3	534.0	486.3	434.0	400.1	378.3	363.4	347.4	327.4	307.9
65°	432.7	447.4	441.0	408.0	370.9	342.1	321.9	310.9	296.3	281.6	264.2
67.5°	331.4	359.7	356.0	338.5	306.4	283.9	270.7	261.0	247.6	236.8	224.9
70°	272.4	298.6	298.1	283.9	266.5	245.5	236.3	228.1	216.1	205.6	196.0
72.5°	223.0	246.9	250.5	239.6	227.6	211.7	202.9	197.3	185.7	178.5	170.7
75°	156.2	173.6	178.1	178.1	172.6	164.4	156.6	152.9	144.7	138.3	133.7
77.5°	102.4	113.4	120.5	122.2	123.0	120.3	113.8	111.2	105.0	102.6	98.2
80°	72.3	79.6	87.9	90.7	93.0	92.0	89.3	87.5	81.5	79.2	77.4
82.5°	50.0	54.1	60.8	66.8	66.2	68.6	66.2	64.7	60.3	59.4	57.6
85°	26.1	26.5	27.5	31.6	33.9	34.8	35.3	34.4	33.0	33.0	29.8
87.5°	12.0	11.3	11.7	11.4	11.3	12.3	13.0	13.0	12.3	11.6	10.9
90°	15.8	14.3	12.8	11.0	8.9	6.8	4.6	2.6	4.6	6.8	8.9
92.5°	31.9	30.8	29.8	28.0	25.6	23.2	20.8	18.4	20.8	23.2	25.6
95°	62.7	61.3	59.9	58.5	56.7	55.0	53.3	51.6	53.3	55.0	56.7
97.5°	100.1	98.6	97.0	95.6	94.2	92.8	91.4	90.1	91.4	92.8	94.2
100°	128.0	126.3	124.6	123.4	122.6	121.8	121.1	120.3	121.1	121.8	122.6
102.5°	157.2	155.7	154.1	153.2	152.8	152.6	152.2	152.0	152.2	152.6	152.8
105°	203.0	202.2	201.5	201.0	200.8	200.6	200.4	200.3	200.4	200.6	200.8
107.5°	252.3	252.2	252.0	251.8	251.7	251.4	251.2	251.0	251.2	251.4	251.7
110°	286.5	286.7	287.0	286.9	286.5	286.1	285.7	285.3	285.7	286.1	286.5



TEST NUMBER: P332944-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	320.6	320.9	321.2	321.4	321.3	321.2	321.2	321.1	321.2	321.2	321.3
115°	373.8	374.1	374.5	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7
117.5°	425.2	425.5	425.8	425.9	425.7	425.5	425.4	425.2	425.4	425.5	425.7
120°	460.9	461.5	462.1	462.0	461.2	460.5	459.7	458.9	459.7	460.5	461.2
122.5°	494.6	495.0	495.2	495.2	494.9	494.6	494.3	494.0	494.3	494.6	494.9
125°	545.3	545.4	545.6	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7
127.5°	594.4	594.8	595.0	595.0	594.3	593.7	593.2	592.6	593.2	593.7	594.3
130°	628.2	628.2	628.2	627.9	627.3	626.8	626.2	625.6	626.2	626.8	627.3
132.5°	660.8	661.0	661.2	661.0	660.6	660.1	659.8	659.4	659.8	660.1	660.6
135°	709.0	709.0	709.0	708.4	707.3	706.1	705.0	703.9	705.0	706.1	707.3
137.5°	755.5	755.2	754.8	754.5	753.9	753.4	752.9	752.3	752.9	753.4	753.9
140°	786.4	786.4	786.4	786.2	785.7	785.4	785.0	784.6	785.0	785.4	785.7
142.5°	815.5	815.7	815.8	815.7	815.4	814.9	814.6	814.2	814.6	814.9	815.4
145°	859.0	858.8	858.6	858.2	857.4	856.6	855.8	855.1	855.8	856.6	857.4
147.5°	899.4	899.6	899.7	899.3	898.5	897.5	896.6	895.7	896.6	897.5	898.5
150°	923.9	923.9	923.9	923.5	922.7	922.0	921.2	920.4	921.2	922.0	922.7
152.5°	946.2	946.1	945.9	945.6	945.2	944.7	944.3	943.8	944.3	944.7	945.2
155°	979.2	979.4	979.6	979.7	979.7	979.7	979.7	979.7	979.7	979.7	979.7
157.5°	1008.3	1008.3	1008.4	1008.6	1008.9	1009.3	1009.6	1010.0	1009.6	1009.3	1008.9
160°	1026.5	1026.7	1026.9	1027.1	1027.3	1027.4	1027.6	1027.9	1027.6	1027.4	1027.3
162.5°	1041.6	1041.8	1042.0	1042.3	1042.8	1043.4	1043.9	1044.3	1043.9	1043.4	1042.8
165°	1063.0	1063.3	1063.8	1064.2	1064.8	1065.4	1065.9	1066.5	1065.9	1065.4	1064.8
167.5°	1080.0	1080.0	1080.0	1080.3	1081.2	1081.9	1082.7	1083.6	1082.7	1081.9	1081.2
170°	1089.3	1089.2	1088.9	1089.3	1090.3	1091.2	1092.2	1093.1	1092.2	1091.2	1090.3
172.5°	1096.5	1096.5	1096.4	1096.8	1097.6	1098.5	1099.2	1100.0	1099.2	1098.5	1097.6
175°	1104.7	1104.9	1105.1	1105.7	1106.6	1107.6	1108.5	1109.5	1108.5	1107.6	1106.6
177.5°	1109.1	1109.1	1109.1	1109.5	1110.3	1111.0	1111.8	1112.6	1111.8	1111.0	1110.3
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



TEST NUMBER: P332944-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1116.0	1112.3	1107.6	1102.1	1095.5	1089.7	1087.1	1089.3	1090.4	1087.4	1087.1
5°	1082.0	1070.6	1061.4	1047.7	1036.7	1027.5	1021.1	1018.4	1019.3	1012.0	1010.1
7.5°	1043.9	1030.3	1015.3	999.0	983.8	970.3	963.3	959.4	951.7	948.3	942.7
10°	1019.3	1001.0	986.4	967.1	949.7	933.7	925.9	919.5	911.7	908.0	900.3
12.5°	994.0	972.8	956.7	936.7	918.9	899.6	892.2	880.3	868.1	860.4	850.4
15°	958.4	932.8	913.1	889.2	868.2	846.2	826.6	804.5	796.3	778.9	768.9
17.5°	916.7	890.7	866.3	834.4	801.9	774.6	753.6	732.5	720.0	708.9	703.7
20°	889.2	865.5	831.6	794.4	758.3	728.1	711.1	697.4	683.6	675.9	670.4
22.5°	863.2	832.8	793.5	753.5	717.3	693.6	679.2	665.1	654.0	646.6	639.2
25°	819.7	779.8	738.1	692.3	667.6	647.0	631.5	620.0	613.1	603.6	599.9
27.5°	774.9	726.6	680.6	649.9	624.1	605.3	591.7	583.1	574.4	568.3	563.5
30°	740.5	691.5	650.2	621.0	594.9	579.3	568.3	558.2	551.3	546.3	542.6
32.5°	706.4	657.4	622.8	591.2	570.7	555.4	543.7	536.2	530.8	524.3	522.1
35°	657.1	613.6	583.4	555.0	533.9	520.2	511.0	503.3	498.7	496.8	495.4
37.5°	609.8	574.1	541.7	518.3	499.6	488.8	477.9	474.2	471.0	467.7	469.2
40°	579.7	546.3	517.5	492.8	477.6	465.7	459.3	454.7	451.9	451.9	451.9
42.5°	553.7	521.0	492.9	470.7	455.6	445.6	438.4	434.5	433.6	433.3	435.5
45°	513.3	483.1	454.7	436.4	423.5	413.5	409.4	406.1	406.1	408.0	408.5
47.5°	473.3	445.0	422.2	401.7	389.9	383.7	380.0	378.4	378.6	380.5	382.5
50°	448.8	420.9	398.4	380.0	369.1	363.1	359.9	359.0	359.9	359.9	363.1
52.5°	422.0	397.0	375.0	359.6	347.1	341.5	339.8	338.5	339.1	340.5	341.9
55°	382.8	360.4	339.3	324.7	315.5	311.9	307.7	308.2	307.3	308.2	308.2
57.5°	343.5	323.4	303.8	292.1	284.1	278.8	274.3	275.6	274.2	274.1	273.3
60°	318.2	296.3	280.7	270.2	261.0	256.4	252.3	253.2	251.8	250.9	249.1
62.5°	290.8	272.4	257.6	247.5	240.1	234.8	230.7	229.8	226.6	223.4	219.5
65°	250.9	235.8	222.6	212.9	206.0	201.9	198.7	196.0	189.1	181.8	178.1
67.5°	212.2	201.3	188.9	180.8	175.2	169.8	163.7	159.0	152.6	148.5	146.3
70°	187.3	176.8	166.3	158.4	152.5	147.5	140.6	137.4	132.8	131.0	128.6
72.5°	163.5	153.7	143.9	136.8	130.5	126.6	121.1	118.0	116.0	115.2	113.0
75°	127.3	119.5	112.2	105.8	100.7	98.0	95.7	93.4	92.5	88.3	86.1
77.5°	92.9	87.7	83.2	78.6	75.0	73.2	68.8	66.1	64.6	62.7	62.2
80°	72.3	68.7	64.1	61.4	56.3	54.5	52.7	52.2	51.7	51.3	50.8
82.5°	54.4	50.7	46.1	44.5	43.1	42.0	40.9	40.5	40.0	40.3	40.2
85°	27.5	25.7	25.7	25.2	24.7	24.3	23.8	23.8	23.3	23.8	23.3
87.5°	11.4	11.4	11.6	11.2	11.9	12.2	12.1	12.3	12.9	12.4	12.6
90°	11.0	12.8	14.3	15.8	17.4	18.9	20.1	21.2	22.4	23.5	24.3
92.5°	28.0	29.8	30.8	31.9	33.0	34.0	34.7	35.4	36.1	36.8	37.3
95°	58.5	59.9	61.3	62.7	64.0	65.3	65.9	66.5	67.1	67.6	67.9
97.5°	95.6	97.0	98.6	100.1	101.8	103.3	104.0	104.7	105.4	106.1	106.4
100°	123.4	124.6	126.3	128.0	129.8	131.5	131.9	132.2	132.6	133.0	133.2
102.5°	153.2	154.1	155.7	157.2	158.8	160.4	160.9	161.4	162.0	162.5	162.8
105°	201.0	201.5	202.2	203.0	203.8	204.6	205.1	205.7	206.3	206.8	207.4
107.5°	251.8	252.0	252.2	252.3	252.4	252.5	253.0	253.6	254.1	254.6	254.9
110°	286.9	287.0	286.7	286.5	286.4	286.2	285.8	285.4	285.0	284.6	284.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	321.4	321.2	320.9	320.6	320.2	319.9	319.8	319.7	319.6	319.6	319.6
115°	374.7	374.5	374.1	373.8	373.3	373.0	372.8	372.6	372.4	372.2	372.0
117.5°	425.9	425.8	425.5	425.2	425.0	424.7	424.0	423.4	422.8	422.1	421.6
120°	462.0	462.1	461.5	460.9	460.4	459.8	458.8	457.9	456.9	456.0	455.6
122.5°	495.2	495.2	495.0	494.6	494.4	494.1	493.5	492.8	492.2	491.5	490.9
125°	545.7	545.6	545.4	545.3	545.0	544.8	544.5	544.1	543.7	543.3	542.9
127.5°	595.0	595.0	594.8	594.4	594.2	593.8	593.5	593.1	592.7	592.3	591.9
130°	627.9	628.2	628.2	628.2	628.2	628.2	627.8	627.5	627.1	626.7	626.1
132.5°	661.0	661.2	661.0	660.8	660.6	660.6	660.1	659.8	659.4	659.0	658.7
135°	708.4	709.0	709.0	709.0	709.0	709.0	708.6	708.3	707.8	707.5	707.0
137.5°	754.5	754.8	755.2	755.5	755.8	756.1	755.6	755.1	754.6	754.1	753.9
140°	786.2	786.4	786.4	786.4	786.4	786.4	786.2	786.0	785.7	785.6	785.4
142.5°	815.7	815.8	815.7	815.5	815.4	815.2	815.2	815.1	815.1	815.1	815.0
145°	858.2	858.6	858.8	859.0	859.2	859.4	859.2	859.0	858.8	858.6	858.2
147.5°	899.3	899.7	899.6	899.4	899.2	899.1	899.0	898.8	898.6	898.5	898.3
150°	923.5	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.8
152.5°	945.6	945.9	946.1	946.2	946.4	946.5	947.0	947.4	947.9	948.4	948.4
155°	979.7	979.6	979.4	979.2	979.0	978.9	979.6	980.4	981.1	981.9	981.9
157.5°	1008.6	1008.4	1008.3	1008.3	1008.3	1008.2	1008.8	1009.4	1010.0	1010.6	1010.5
160°	1027.1	1026.9	1026.7	1026.5	1026.3	1026.1	1026.7	1027.3	1027.9	1028.4	1028.2
162.5°	1042.3	1042.0	1041.8	1041.6	1041.5	1041.2	1042.2	1043.3	1044.3	1045.3	1045.4
165°	1064.2	1063.8	1063.3	1063.0	1062.6	1062.2	1063.3	1064.5	1065.7	1066.8	1067.0
167.5°	1080.3	1080.0	1080.0	1080.0	1080.0	1080.1	1081.2	1082.4	1083.6	1084.7	1084.7
170°	1089.3	1088.9	1089.2	1089.3	1089.5	1089.7	1090.9	1092.0	1093.1	1094.3	1094.2
172.5°	1096.8	1096.4	1096.5	1096.5	1096.6	1096.6	1097.9	1099.2	1100.4	1101.8	1101.7
175°	1105.7	1105.1	1104.9	1104.7	1104.5	1104.3	1105.7	1107.0	1108.4	1109.7	1109.7
177.5°	1109.5	1109.1	1109.1	1109.1	1109.1	1109.1	1110.2	1111.3	1112.3	1113.4	1113.4
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



TEST NUMBER: P332944-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1084.9	1085.6	1083.1	1082.3	1083.1	1085.6	1084.9	1087.1	1087.4	1090.4	1089.3
5°	1006.5	1005.6	1003.3	1003.8	1003.3	1005.6	1006.5	1010.1	1012.0	1019.3	1018.4
7.5°	939.4	935.9	936.9	933.2	936.9	935.9	939.4	942.7	948.3	951.7	959.4
10°	898.5	893.4	889.2	885.6	889.2	893.4	898.5	900.3	908.0	911.7	919.5
12.5°	842.4	838.1	832.5	833.6	832.5	838.1	842.4	850.4	860.4	868.1	880.3
15°	762.8	756.0	745.0	746.4	745.0	756.0	762.8	768.9	778.9	796.3	804.5
17.5°	695.6	695.7	690.6	691.8	690.6	695.7	695.6	703.7	708.9	720.0	732.5
20°	660.7	657.5	658.0	656.7	658.0	657.5	660.7	670.4	675.9	683.6	697.4
22.5°	636.6	632.7	629.5	626.6	629.5	632.7	636.6	639.2	646.6	654.0	665.1
25°	595.7	593.0	588.8	588.0	588.8	593.0	595.7	599.9	603.6	613.1	620.0
27.5°	559.8	559.3	557.7	555.5	557.7	559.3	559.8	563.5	568.3	574.4	583.1
30°	539.0	538.0	537.1	535.7	537.1	538.0	539.0	542.6	546.3	551.3	558.2
32.5°	520.3	519.7	518.8	518.9	518.8	519.7	520.3	522.1	524.3	530.8	536.2
35°	493.6	493.2	492.2	491.8	492.2	493.2	493.6	495.4	496.8	498.7	503.3
37.5°	468.7	469.9	469.3	469.2	469.3	469.9	468.7	469.2	467.7	471.0	474.2
40°	451.5	451.9	452.9	452.5	452.9	451.9	451.5	451.9	451.9	451.9	454.7
42.5°	437.2	437.3	438.6	437.0	438.6	437.3	437.2	435.5	433.3	433.6	434.5
45°	411.6	414.4	414.0	414.0	414.0	414.4	411.6	408.5	408.0	406.1	406.1
47.5°	383.7	386.1	386.8	386.7	386.8	386.1	383.7	382.5	380.5	378.6	378.4
50°	365.4	364.5	365.8	365.4	365.8	364.5	365.4	363.1	359.9	359.9	359.0
52.5°	343.1	343.3	343.2	342.7	343.2	343.3	343.1	341.9	340.5	339.1	338.5
55°	308.7	309.1	308.2	308.7	308.2	309.1	308.7	308.2	308.2	307.3	308.2
57.5°	271.3	269.1	270.0	268.9	270.0	269.1	271.3	273.3	274.1	274.2	275.6
60°	244.5	240.8	240.0	238.2	240.0	240.8	244.5	249.1	250.9	251.8	253.2
62.5°	214.5	211.9	208.8	210.3	208.8	211.9	214.5	219.5	223.4	226.6	229.8
65°	174.4	172.6	171.3	173.1	171.3	172.6	174.4	178.1	181.8	189.1	196.0
67.5°	144.4	143.4	143.4	142.5	143.4	143.4	144.4	146.3	148.5	152.6	159.0
70°	128.6	127.3	127.3	126.4	127.3	127.3	128.6	128.6	131.0	132.8	137.4
72.5°	112.5	111.2	111.6	111.0	111.6	111.2	112.5	113.0	115.2	116.0	118.0
75°	83.3	81.0	81.0	81.5	81.0	81.0	83.3	86.1	88.3	92.5	93.4
77.5°	62.2	61.7	62.3	61.6	62.3	61.7	62.2	62.2	62.7	64.6	66.1
80°	50.8	50.4	49.9	51.3	49.9	50.4	50.8	50.8	51.3	51.7	52.2
82.5°	39.4	39.3	39.3	41.1	39.3	39.3	39.4	40.2	40.3	40.0	40.5
85°	23.8	22.9	23.8	22.9	23.8	22.9	23.8	23.3	23.8	23.3	23.8
87.5°	13.3	13.1	12.7	13.2	12.7	13.1	13.3	12.6	12.4	12.9	12.3
90°	24.6	25.1	25.4	25.7	25.4	25.1	24.6	24.3	23.5	22.4	21.2
92.5°	37.5	37.7	38.0	38.1	38.0	37.7	37.5	37.3	36.8	36.1	35.4
95°	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.6	67.1	66.5
97.5°	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.1	105.4	104.7
100°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.0	132.6	132.2
102.5°	163.0	163.2	163.3	163.4	163.3	163.2	163.0	162.8	162.5	162.0	161.4
105°	207.9	208.5	209.1	209.7	209.1	208.5	207.9	207.4	206.8	206.3	205.7
107.5°	254.9	254.8	254.8	254.7	254.8	254.8	254.9	254.9	254.6	254.1	253.6
110°	285.3	285.9	286.5	287.1	286.5	285.9	285.3	284.7	284.6	285.0	285.4



TEST NUMBER: P332944-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	319.7	319.8	319.9	320.0	319.9	319.8	319.7	319.6	319.6	319.6	319.7
115°	371.9	371.6	371.4	371.3	371.4	371.6	371.9	372.0	372.2	372.4	372.6
117.5°	421.2	420.9	420.4	420.1	420.4	420.9	421.2	421.6	422.1	422.8	423.4
120°	456.1	456.4	456.8	457.2	456.8	456.4	456.1	455.6	456.0	456.9	457.9
122.5°	490.2	489.5	488.8	488.1	488.8	489.5	490.2	490.9	491.5	492.2	492.8
125°	542.6	542.2	541.8	541.4	541.8	542.2	542.6	542.9	543.3	543.7	544.1
127.5°	591.7	591.3	591.1	590.7	591.1	591.3	591.7	591.9	592.3	592.7	593.1
130°	625.3	624.6	623.8	623.0	623.8	624.6	625.3	626.1	626.7	627.1	627.5
132.5°	658.3	658.1	657.7	657.5	657.7	658.1	658.3	658.7	659.0	659.4	659.8
135°	706.5	705.8	705.2	704.7	705.2	705.8	706.5	707.0	707.5	707.8	708.3
137.5°	754.1	754.1	754.2	754.4	754.2	754.1	754.1	753.9	754.1	754.6	755.1
140°	785.2	785.0	784.8	784.6	784.8	785.0	785.2	785.4	785.6	785.7	786.0
142.5°	815.0	814.9	814.9	814.9	814.9	814.9	815.0	815.0	815.1	815.1	815.1
145°	857.6	857.1	856.5	855.9	856.5	857.1	857.6	858.2	858.6	858.8	859.0
147.5°	898.1	897.9	897.8	897.6	897.8	897.9	898.1	898.3	898.5	898.6	898.8
150°	923.6	923.3	923.2	923.0	923.2	923.3	923.6	923.8	923.9	923.9	923.9
152.5°	947.9	947.4	946.8	946.3	946.8	947.4	947.9	948.4	948.4	947.9	947.4
155°	981.1	980.4	979.6	978.9	979.6	980.4	981.1	981.9	981.9	981.1	980.4
157.5°	1009.9	1009.2	1008.6	1007.9	1008.6	1009.2	1009.9	1010.5	1010.6	1010.0	1009.4
160°	1027.3	1026.3	1025.4	1024.4	1025.4	1026.3	1027.3	1028.2	1028.4	1027.9	1027.3
162.5°	1044.5	1043.5	1042.6	1041.6	1042.6	1043.5	1044.5	1045.4	1045.3	1044.3	1043.3
165°	1066.3	1065.5	1064.7	1063.9	1064.7	1065.5	1066.3	1067.0	1066.8	1065.7	1064.5
167.5°	1083.5	1082.3	1081.1	1080.0	1081.1	1082.3	1083.5	1084.7	1084.7	1083.6	1082.4
170°	1092.9	1091.5	1090.2	1088.8	1090.2	1091.5	1092.9	1094.2	1094.3	1093.1	1092.0
172.5°	1100.4	1099.1	1097.8	1096.4	1097.8	1099.1	1100.4	1101.7	1101.8	1100.4	1099.2
175°	1108.4	1107.0	1105.7	1104.3	1105.7	1107.0	1108.4	1109.7	1109.7	1108.4	1107.0
177.5°	1112.2	1110.9	1109.7	1108.5	1109.7	1110.9	1112.2	1113.4	1113.4	1112.3	1111.3
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



TEST NUMBER: P332944-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1087.1	1089.7	1095.5	1102.1	1107.6	1112.3	1116.0	1121.1	1125.9	1132.5	1138.8
5°	1021.1	1027.5	1036.7	1047.7	1061.4	1070.6	1082.0	1092.1	1106.7	1121.5	1135.7
7.5°	963.3	970.3	983.8	999.0	1015.3	1030.3	1043.9	1061.6	1081.1	1102.3	1126.2
10°	925.9	933.7	949.7	967.1	986.4	1001.0	1019.3	1040.3	1062.4	1088.5	1117.8
12.5°	892.2	899.6	918.9	936.7	956.7	972.8	994.0	1015.5	1044.7	1073.1	1106.4
15°	826.6	846.2	868.2	889.2	913.1	932.8	958.4	980.4	1008.3	1048.2	1086.2
17.5°	753.6	774.6	801.9	834.4	866.3	890.7	916.7	944.0	977.2	1018.0	1061.8
20°	711.1	728.1	758.3	794.4	831.6	865.5	889.2	919.5	953.8	997.8	1043.1
22.5°	679.2	693.6	717.3	753.5	793.5	832.8	863.2	893.1	931.1	975.1	1024.4
25°	631.5	647.0	667.6	692.3	738.1	779.8	819.7	854.0	894.3	938.2	993.2
27.5°	591.7	605.3	624.1	649.9	680.6	726.6	774.9	814.1	855.4	902.6	957.6
30°	568.3	579.3	594.9	621.0	650.2	691.5	740.5	786.3	827.9	876.9	934.1
32.5°	543.7	555.4	570.7	591.2	622.8	657.4	706.4	756.6	800.8	850.9	907.1
35°	511.0	520.2	533.9	555.0	583.4	613.6	657.1	708.9	755.5	809.2	862.7
37.5°	477.9	488.8	499.6	518.3	541.7	574.1	609.8	662.6	714.4	763.3	815.5
40°	459.3	465.7	477.6	492.8	517.5	546.3	579.7	631.5	683.2	731.8	784.4
42.5°	438.4	445.6	455.6	470.7	492.9	521.0	553.7	598.5	652.5	699.5	747.4
45°	409.4	413.5	423.5	436.4	454.7	483.1	513.3	553.2	604.0	648.8	691.0
47.5°	380.0	383.7	389.9	401.7	422.2	445.0	473.3	509.0	553.6	598.5	634.1
50°	359.9	363.1	369.1	380.0	398.4	420.9	448.8	480.8	520.6	563.7	593.5
52.5°	339.8	341.5	347.1	359.6	375.0	397.0	422.0	451.5	488.8	524.5	554.7
55°	307.7	311.9	315.5	324.7	339.3	360.4	382.8	410.8	439.6	469.8	495.4
57.5°	274.3	278.8	284.1	292.1	303.8	323.4	343.5	366.2	390.8	415.9	437.4
60°	252.3	256.4	261.0	270.2	280.7	296.3	318.2	337.9	356.7	379.6	401.1
62.5°	230.7	234.8	240.1	247.5	257.6	272.4	290.8	307.9	327.4	347.4	363.4
65°	198.7	201.9	206.0	212.9	222.6	235.8	250.9	264.2	281.6	296.3	310.9
67.5°	163.7	169.8	175.2	180.8	188.9	201.3	212.2	224.9	236.8	247.6	261.0
70°	140.6	147.5	152.5	158.4	166.3	176.8	187.3	196.0	205.6	216.1	228.1
72.5°	121.1	126.6	130.5	136.8	143.9	153.7	163.5	170.7	178.5	185.7	197.3
75°	95.7	98.0	100.7	105.8	112.2	119.5	127.3	133.7	138.3	144.7	152.9
77.5°	68.8	73.2	75.0	78.6	83.2	87.7	92.9	98.2	102.6	105.0	111.2
80°	52.7	54.5	56.3	61.4	64.1	68.7	72.3	77.4	79.2	81.5	87.5
82.5°	40.9	42.0	43.1	44.5	46.1	50.7	54.4	57.6	59.4	60.3	64.7
85°	23.8	24.3	24.7	25.2	25.7	25.7	27.5	29.8	33.0	33.0	34.4
87.5°	12.1	12.2	11.9	11.2	11.6	11.4	11.4	10.9	11.6	12.3	13.0
90°	20.1	18.9	17.4	15.8	14.3	12.8	11.0	8.9	6.8	4.6	2.6
92.5°	34.7	34.0	33.0	31.9	30.8	29.8	28.0	25.6	23.2	20.8	18.4
95°	65.9	65.3	64.0	62.7	61.3	59.9	58.5	56.7	55.0	53.3	51.6
97.5°	104.0	103.3	101.8	100.1	98.6	97.0	95.6	94.2	92.8	91.4	90.1
100°	131.9	131.5	129.8	128.0	126.3	124.6	123.4	122.6	121.8	121.1	120.3
102.5°	160.9	160.4	158.8	157.2	155.7	154.1	153.2	152.8	152.6	152.2	152.0
105°	205.1	204.6	203.8	203.0	202.2	201.5	201.0	200.8	200.6	200.4	200.3
107.5°	253.0	252.5	252.4	252.3	252.2	252.0	251.8	251.7	251.4	251.2	251.0
110°	285.8	286.2	286.4	286.5	286.7	287.0	286.9	286.5	286.1	285.7	285.3



TEST NUMBER: P332944-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	319.8	319.9	320.2	320.6	320.9	321.2	321.4	321.3	321.2	321.2	321.1
115°	372.8	373.0	373.3	373.8	374.1	374.5	374.7	374.7	374.7	374.7	374.7
117.5°	424.0	424.7	425.0	425.2	425.5	425.8	425.9	425.7	425.5	425.4	425.2
120°	458.8	459.8	460.4	460.9	461.5	462.1	462.0	461.2	460.5	459.7	458.9
122.5°	493.5	494.1	494.4	494.6	495.0	495.2	495.2	494.9	494.6	494.3	494.0
125°	544.5	544.8	545.0	545.3	545.4	545.6	545.7	545.7	545.7	545.7	545.7
127.5°	593.5	593.8	594.2	594.4	594.8	595.0	595.0	594.3	593.7	593.2	592.6
130°	627.8	628.2	628.2	628.2	628.2	628.2	627.9	627.3	626.8	626.2	625.6
132.5°	660.1	660.6	660.6	660.8	661.0	661.2	661.0	660.6	660.1	659.8	659.4
135°	708.6	709.0	709.0	709.0	709.0	709.0	708.4	707.3	706.1	705.0	703.9
137.5°	755.6	756.1	755.8	755.5	755.2	754.8	754.5	753.9	753.4	752.9	752.3
140°	786.2	786.4	786.4	786.4	786.4	786.4	786.2	785.7	785.4	785.0	784.6
142.5°	815.2	815.2	815.4	815.5	815.7	815.8	815.7	815.4	814.9	814.6	814.2
145°	859.2	859.4	859.2	859.0	858.8	858.6	858.2	857.4	856.6	855.8	855.1
147.5°	899.0	899.1	899.2	899.4	899.6	899.7	899.3	898.5	897.5	896.6	895.7
150°	923.9	923.9	923.9	923.9	923.9	923.9	923.5	922.7	922.0	921.2	920.4
152.5°	947.0	946.5	946.4	946.2	946.1	945.9	945.6	945.2	944.7	944.3	943.8
155°	979.6	978.9	979.0	979.2	979.4	979.6	979.7	979.7	979.7	979.7	979.7
157.5°	1008.8	1008.2	1008.3	1008.3	1008.3	1008.4	1008.6	1008.9	1009.3	1009.6	1010.0
160°	1026.7	1026.1	1026.3	1026.5	1026.7	1026.9	1027.1	1027.3	1027.4	1027.6	1027.9
162.5°	1042.2	1041.2	1041.5	1041.6	1041.8	1042.0	1042.3	1042.8	1043.4	1043.9	1044.3
165°	1063.3	1062.2	1062.6	1063.0	1063.3	1063.8	1064.2	1064.8	1065.4	1065.9	1066.5
167.5°	1081.2	1080.1	1080.0	1080.0	1080.0	1080.0	1080.3	1081.2	1081.9	1082.7	1083.6
170°	1090.9	1089.7	1089.5	1089.3	1089.2	1088.9	1089.3	1090.3	1091.2	1092.2	1093.1
172.5°	1097.9	1096.6	1096.6	1096.5	1096.5	1096.4	1096.8	1097.6	1098.5	1099.2	1100.0
175°	1105.7	1104.3	1104.5	1104.7	1104.9	1105.1	1105.7	1106.6	1107.6	1108.5	1109.5
177.5°	1110.2	1109.1	1109.1	1109.1	1109.1	1109.1	1109.5	1110.3	1111.0	1111.8	1112.6
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1143.5	1146.8	1150.5	1157.4	1163.3	1165.9	1171.0	1174.7	1173.5	1178.6	1187.5
5°	1148.0	1160.4	1174.6	1189.2	1205.7	1219.4	1230.4	1241.4	1250.1	1260.6	1276.2
7.5°	1147.3	1169.2	1193.2	1219.4	1246.5	1269.8	1291.4	1313.4	1332.9	1354.3	1382.2
10°	1144.4	1173.6	1203.4	1237.8	1272.0	1304.6	1333.9	1361.4	1387.5	1415.4	1450.7
12.5°	1141.0	1174.7	1210.7	1252.0	1294.8	1333.9	1368.3	1407.9	1440.6	1476.6	1517.3
15°	1126.4	1171.8	1220.8	1274.4	1325.7	1378.3	1425.5	1474.0	1519.3	1562.4	1613.7
17.5°	1109.8	1162.1	1219.9	1283.1	1344.8	1408.8	1464.7	1526.0	1572.3	1630.0	1677.7
20°	1096.2	1152.5	1214.4	1285.4	1355.4	1426.4	1488.2	1550.5	1602.7	1660.9	1721.3
22.5°	1079.8	1141.6	1208.5	1282.0	1355.4	1433.0	1501.4	1563.3	1628.0	1693.4	1755.8
25°	1053.2	1117.3	1188.3	1268.9	1353.1	1432.4	1505.6	1582.5	1652.2	1723.1	1779.0
27.5°	1020.6	1087.9	1162.7	1245.9	1332.3	1413.5	1499.8	1581.7	1651.7	1720.1	1768.8
30°	994.5	1065.6	1137.5	1221.7	1311.5	1398.4	1491.0	1573.0	1646.7	1708.1	1735.5
32.5°	967.9	1035.2	1109.2	1194.6	1286.5	1380.2	1471.9	1555.7	1623.9	1660.8	1661.5
35°	921.4	984.5	1061.4	1145.2	1239.6	1341.3	1434.2	1516.6	1558.2	1561.5	1516.6
37.5°	870.6	928.6	1001.2	1085.0	1188.4	1289.5	1384.5	1439.4	1453.3	1406.7	1323.7
40°	834.3	887.9	957.9	1044.0	1146.6	1251.0	1337.6	1377.9	1363.2	1287.6	1195.2
42.5°	796.3	846.1	913.6	998.6	1101.6	1207.0	1280.7	1302.4	1263.6	1176.3	1068.1
45°	734.0	779.8	846.7	932.3	1031.2	1130.1	1186.0	1175.0	1110.4	1006.9	885.6
47.5°	669.3	713.5	773.7	852.9	954.2	1039.6	1077.4	1044.2	952.4	838.5	739.8
50°	626.5	671.8	727.2	802.7	895.2	977.7	1001.9	951.6	849.5	739.9	649.3
52.5°	584.3	623.0	677.3	750.4	838.8	908.4	921.4	863.2	757.9	659.8	579.4
55°	520.2	555.4	601.2	669.9	746.4	805.5	798.6	723.9	628.3	544.5	481.3
57.5°	458.2	484.7	527.0	591.4	658.6	698.2	673.1	609.5	520.3	451.7	398.4
60°	417.2	441.9	481.3	537.6	596.7	619.1	598.1	528.9	458.4	395.6	350.8
62.5°	378.3	400.1	434.0	486.3	534.0	547.3	524.8	464.4	400.9	347.2	310.1
65°	321.9	342.1	370.9	408.0	441.0	447.4	432.7	370.9	322.8	277.9	252.3
67.5°	270.7	283.9	306.4	338.5	356.0	359.7	331.4	292.6	250.2	222.7	203.3
70°	236.3	245.5	266.5	283.9	298.1	298.6	272.4	241.3	208.8	186.4	172.2
72.5°	202.9	211.7	227.6	239.6	250.5	246.9	223.0	198.5	172.2	155.2	144.7
75°	156.6	164.4	172.6	178.1	178.1	173.6	156.2	137.8	122.7	112.6	109.4
77.5°	113.8	120.3	123.0	122.2	120.5	113.4	102.4	90.4	85.0	80.2	77.8
80°	89.3	92.0	93.0	90.7	87.9	79.6	72.3	67.3	62.3	60.4	59.5
82.5°	66.2	68.6	66.2	66.8	60.8	54.1	50.0	48.3	46.1	45.5	44.5
85°	35.3	34.8	33.9	31.6	27.5	26.5	26.1	25.7	24.7	25.2	24.3
87.5°	13.0	12.3	11.3	11.4	11.7	11.3	12.0	12.2	12.6	12.4	13.4
90°	4.6	6.8	8.9	11.0	12.8	14.3	15.8	17.4	18.9	20.1	21.2
92.5°	20.8	23.2	25.6	28.0	29.8	30.8	31.9	33.0	34.0	34.7	35.4
95°	53.3	55.0	56.7	58.5	59.9	61.3	62.7	64.0	65.3	65.9	66.5
97.5°	91.4	92.8	94.2	95.6	97.0	98.6	100.1	101.8	103.3	104.0	104.7
100°	121.1	121.8	122.6	123.4	124.6	126.3	128.0	129.8	131.5	131.9	132.2
102.5°	152.2	152.6	152.8	153.2	154.1	155.7	157.2	158.8	160.4	160.9	161.4
105°	200.4	200.6	200.8	201.0	201.5	202.2	203.0	203.8	204.6	205.1	205.7
107.5°	251.2	251.4	251.7	251.8	252.0	252.2	252.3	252.4	252.5	253.0	253.6
110°	285.7	286.1	286.5	286.9	287.0	286.7	286.5	286.4	286.2	285.8	285.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	321.2	321.2	321.3	321.4	321.2	320.9	320.6	320.2	319.9	319.8	319.7
115°	374.7	374.7	374.7	374.7	374.5	374.1	373.8	373.3	373.0	372.8	372.6
117.5°	425.4	425.5	425.7	425.9	425.8	425.5	425.2	425.0	424.7	424.0	423.4
120°	459.7	460.5	461.2	462.0	462.1	461.5	460.9	460.4	459.8	458.8	457.9
122.5°	494.3	494.6	494.9	495.2	495.2	495.0	494.6	494.4	494.1	493.5	492.8
125°	545.7	545.7	545.7	545.7	545.6	545.4	545.3	545.0	544.8	544.5	544.1
127.5°	593.2	593.7	594.3	595.0	595.0	594.8	594.4	594.2	593.8	593.5	593.1
130°	626.2	626.8	627.3	627.9	628.2	628.2	628.2	628.2	628.2	627.8	627.5
132.5°	659.8	660.1	660.6	661.0	661.2	661.0	660.8	660.6	660.6	660.1	659.8
135°	705.0	706.1	707.3	708.4	709.0	709.0	709.0	709.0	709.0	708.6	708.3
137.5°	752.9	753.4	753.9	754.5	754.8	755.2	755.5	755.8	756.1	755.6	755.1
140°	785.0	785.4	785.7	786.2	786.4	786.4	786.4	786.4	786.4	786.2	786.0
142.5°	814.6	814.9	815.4	815.7	815.8	815.7	815.5	815.4	815.2	815.2	815.1
145°	855.8	856.6	857.4	858.2	858.6	858.8	859.0	859.2	859.4	859.2	859.0
147.5°	896.6	897.5	898.5	899.3	899.7	899.6	899.4	899.2	899.1	899.0	898.8
150°	921.2	922.0	922.7	923.5	923.9	923.9	923.9	923.9	923.9	923.9	923.9
152.5°	944.3	944.7	945.2	945.6	945.9	946.1	946.2	946.4	946.5	947.0	947.4
155°	979.7	979.7	979.7	979.7	979.6	979.4	979.2	979.0	978.9	979.6	980.4
157.5°	1009.6	1009.3	1008.9	1008.6	1008.4	1008.3	1008.3	1008.3	1008.2	1008.8	1009.4
160°	1027.6	1027.4	1027.3	1027.1	1026.9	1026.7	1026.5	1026.3	1026.1	1026.7	1027.3
162.5°	1043.9	1043.4	1042.8	1042.3	1042.0	1041.8	1041.6	1041.5	1041.2	1042.2	1043.3
165°	1065.9	1065.4	1064.8	1064.2	1063.8	1063.3	1063.0	1062.6	1062.2	1063.3	1064.5
167.5°	1082.7	1081.9	1081.2	1080.3	1080.0	1080.0	1080.0	1080.0	1080.1	1081.2	1082.4
170°	1092.2	1091.2	1090.3	1089.3	1088.9	1089.2	1089.3	1089.5	1089.7	1090.9	1092.0
172.5°	1099.2	1098.5	1097.6	1096.8	1096.4	1096.5	1096.5	1096.6	1096.6	1097.9	1099.2
175°	1108.5	1107.6	1106.6	1105.7	1105.1	1104.9	1104.7	1104.5	1104.3	1105.7	1107.0
177.5°	1111.8	1111.0	1110.3	1109.5	1109.1	1109.1	1109.1	1109.1	1109.1	1110.2	1111.3
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1192.2	1193.7	1194.8	1198.4	1198.8	1202.1	1198.8
5°	1290.8	1297.3	1307.3	1317.4	1318.4	1324.7	1313.3
7.5°	1401.4	1416.3	1425.6	1441.8	1448.3	1452.3	1445.7
10°	1477.6	1491.4	1515.7	1527.6	1539.5	1541.4	1535.9
12.5°	1551.3	1573.1	1592.2	1614.8	1614.2	1630.4	1624.4
15°	1649.4	1671.8	1698.4	1723.5	1732.8	1732.8	1740.1
17.5°	1719.3	1760.5	1788.0	1807.8	1829.4	1833.1	1830.6
20°	1766.6	1811.0	1840.4	1866.0	1880.7	1884.7	1884.7
22.5°	1801.8	1839.6	1868.2	1891.3	1903.3	1908.2	1906.8
25°	1826.2	1858.6	1876.0	1882.9	1886.1	1885.2	1876.5
27.5°	1792.8	1791.3	1780.4	1759.3	1743.4	1733.8	1722.9
30°	1729.1	1705.3	1677.8	1647.5	1608.6	1578.9	1569.7
32.5°	1634.2	1580.7	1534.2	1483.8	1442.0	1412.2	1399.7
35°	1450.7	1366.0	1296.8	1236.4	1192.4	1164.9	1155.8
37.5°	1232.9	1150.9	1065.3	1006.7	970.3	942.5	932.1
40°	1094.4	1005.1	930.5	875.6	838.0	811.0	810.5
42.5°	968.0	882.8	812.5	772.9	732.5	714.6	714.5
45°	792.6	724.4	664.9	633.8	609.5	594.9	590.7
47.5°	656.3	599.9	560.2	535.4	515.6	506.3	500.2
50°	579.7	530.3	498.7	477.2	466.1	454.3	453.3
52.5°	516.0	476.0	451.4	433.9	420.0	412.8	413.0
55°	433.6	402.1	384.6	371.3	360.4	354.9	352.6
57.5°	365.3	341.6	329.0	316.8	312.1	307.8	306.6
60°	322.8	306.8	294.9	285.2	278.4	277.1	276.6
62.5°	287.7	270.9	262.7	255.2	250.2	248.1	247.3
65°	237.2	224.8	217.5	211.5	209.7	206.6	206.0
67.5°	191.2	183.8	178.9	174.9	172.4	172.2	172.2
70°	163.0	158.9	154.8	152.5	151.1	150.2	150.2
72.5°	138.9	135.8	132.4	131.2	131.0	130.0	129.7
75°	105.8	102.5	103.1	100.7	98.9	96.6	95.2
77.5°	75.0	72.8	72.2	72.0	70.4	70.2	70.9
80°	58.1	55.9	55.4	55.9	55.4	54.1	54.1
82.5°	44.3	42.3	41.8	41.6	41.2	41.6	40.8
85°	23.8	22.9	22.9	22.9	23.8	23.3	22.9
87.5°	12.9	12.7	13.3	13.0	13.1	12.7	13.2
90°	22.4	23.5	24.3	24.6	25.1	25.4	25.7
92.5°	36.1	36.8	37.3	37.5	37.7	38.0	38.1
95°	67.1	67.6	67.9	67.9	67.9	67.9	67.9
97.5°	105.4	106.1	106.4	106.4	106.4	106.4	106.4
100°	132.6	133.0	133.2	133.2	133.2	133.2	133.2
102.5°	162.0	162.5	162.8	163.0	163.2	163.3	163.4
105°	206.3	206.8	207.4	207.9	208.5	209.1	209.7
107.5°	254.1	254.6	254.9	254.9	254.8	254.8	254.7
110°	285.0	284.6	284.7	285.3	285.9	286.5	287.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	319.6	319.6	319.6	319.7	319.8	319.9	320.0
115°	372.4	372.2	372.0	371.9	371.6	371.4	371.3
117.5°	422.8	422.1	421.6	421.2	420.9	420.4	420.1
120°	456.9	456.0	455.6	456.1	456.4	456.8	457.2
122.5°	492.2	491.5	490.9	490.2	489.5	488.8	488.1
125°	543.7	543.3	542.9	542.6	542.2	541.8	541.4
127.5°	592.7	592.3	591.9	591.7	591.3	591.1	590.7
130°	627.1	626.7	626.1	625.3	624.6	623.8	623.0
132.5°	659.4	659.0	658.7	658.3	658.1	657.7	657.5
135°	707.8	707.5	707.0	706.5	705.8	705.2	704.7
137.5°	754.6	754.1	753.9	754.1	754.1	754.2	754.4
140°	785.7	785.6	785.4	785.2	785.0	784.8	784.6
142.5°	815.1	815.1	815.0	815.0	814.9	814.9	814.9
145°	858.8	858.6	858.2	857.6	857.1	856.5	855.9
147.5°	898.6	898.5	898.3	898.1	897.9	897.8	897.6
150°	923.9	923.9	923.8	923.6	923.3	923.2	923.0
152.5°	947.9	948.4	948.4	947.9	947.4	946.8	946.3
155°	981.1	981.9	981.9	981.1	980.4	979.6	978.9
157.5°	1010.0	1010.6	1010.5	1009.9	1009.2	1008.6	1007.9
160°	1027.9	1028.4	1028.2	1027.3	1026.3	1025.4	1024.4
162.5°	1044.3	1045.3	1045.4	1044.5	1043.5	1042.6	1041.6
165°	1065.7	1066.8	1067.0	1066.3	1065.5	1064.7	1063.9
167.5°	1083.6	1084.7	1084.7	1083.5	1082.3	1081.1	1080.0
170°	1093.1	1094.3	1094.2	1092.9	1091.5	1090.2	1088.8
172.5°	1100.4	1101.8	1101.7	1100.4	1099.1	1097.8	1096.4
175°	1108.4	1109.7	1109.7	1108.4	1107.0	1105.7	1104.3
177.5°	1112.3	1113.4	1113.4	1112.2	1110.9	1109.7	1108.5
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2

(END OF REPORT)