

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: P332950-927

Luminaire Tested: **SA4XXRDIP-C795D1205U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332950-927
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-C795D1205U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948.5 lumens
Efficiency: N/A
Efficacy: 104.5 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

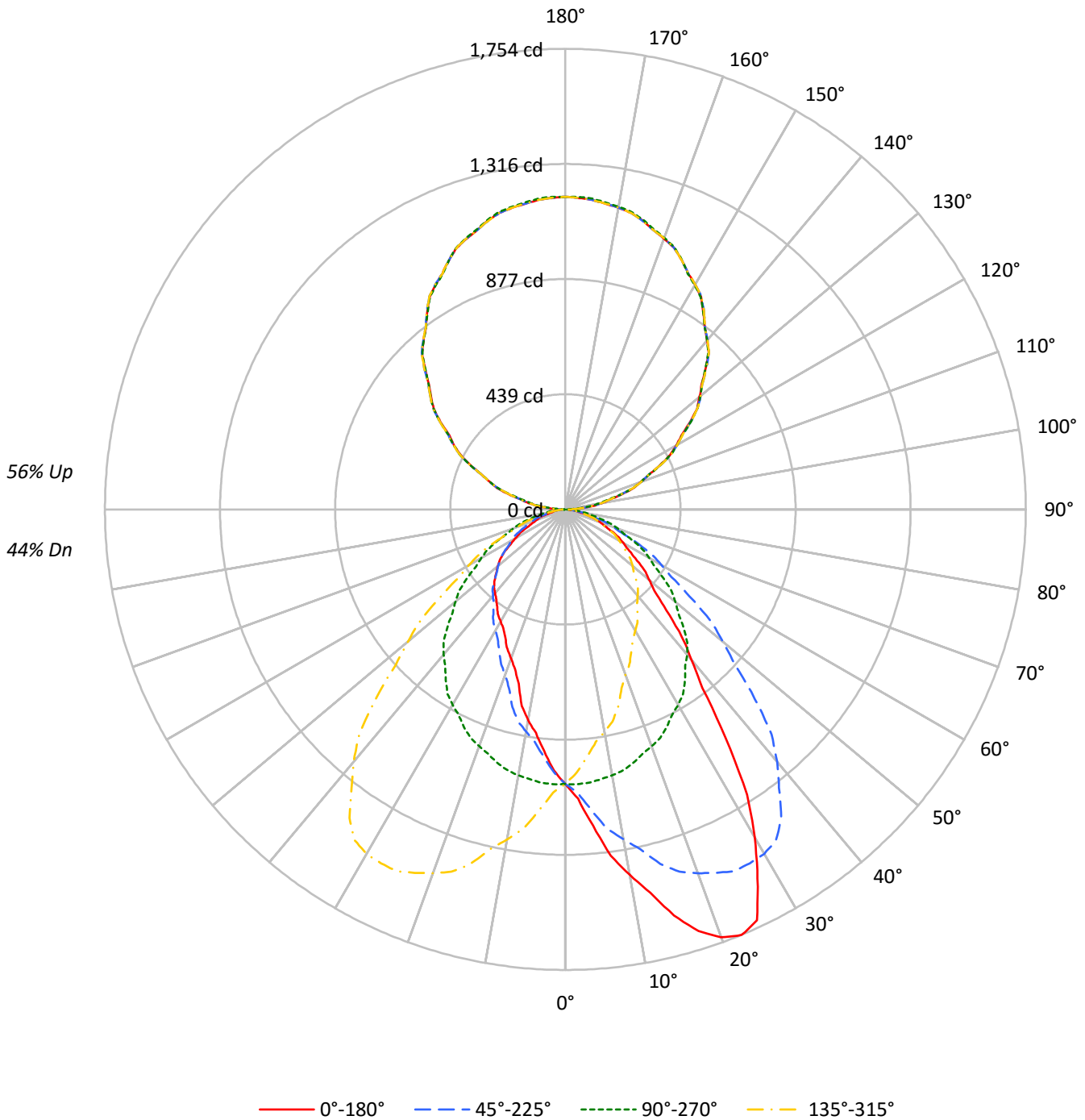
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44		
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38		
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33		
3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	36	34	32	28		
4	74	64	56	50	68	59	52	47	50	45	41	41	37	34	33	30	28	24		
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21		
6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19		
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17		
8	54	42	35	29	50	39	32	28	33	28	24	28	24	21	23	20	18	15		
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14		
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8442	8442	8442	8442
5°	9792	8468	7484	8468
10°	11584	8430	6679	8430
15°	13381	8352	5739	8352
20°	14898	8245	5191	8245
25°	15380	8141	4819	8141
30°	13463	8011	4595	8011
35°	10480	7823	4459	7823
40°	7860	7606	4387	7606
45°	6205	7258	4349	7258
50°	5238	6859	4222	6859
55°	4566	6415	3997	6415
60°	4108	5959	3538	5959
65°	3622	5465	3041	5465
70°	3262	4952	2745	4952
75°	2732	4389	2339	4389
80°	2311	3742	2194	3742
85°	1954	2927	1954	2927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.7
10°-20°	305.6	5.1
20°-30°	478.0	8.0
30°-40°	531.4	8.9
40°-50°	471.5	7.9
50°-60°	367.4	6.2
60°-70°	240.5	4.0
70°-80°	118.3	2.0
80°-90°	32.7	0.6
90°-100°	78.5	1.3
100°-110°	232.5	3.9
110°-120°	394.6	6.6
120°-130°	520.4	8.7
130°-140°	584.4	9.8
140°-150°	574.3	9.7
150°-160°	483.0	8.1
160°-170°	321.4	5.4
170°-180°	112.5	1.9
0°-30°	885.0	14.9
0°-40°	1416.4	23.8
0°-60°	2255.3	37.9
0°-90°	2646.8	44.5
90°-120°	705.6	11.9
90°-150°	2384.7	40.1
90°-180°	3302.0	55.5
0°-180°	5948.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1046	1046	1046	1046	1046	
5°	1208	1045	924	1045	1208	122
15°	1601	999	687	999	1601	455
25°	1727	914	541	914	1727	766
35°	1063	794	452	794	1063	667
45°	544	636	381	636	544	430
55°	324	456	284	456	324	295
65°	190	286	159	286	190	191
75°	88	141	75	141	88	96
85°	21	32	21	32	21	24
90°	28	3	28	3	28	15
95°	73	55	73	55	73	76
105°	225	214	225	214	225	237
115°	398	401	398	401	398	393
125°	580	584	580	584	580	517
135°	755	754	755	754	755	583
145°	917	916	917	916	917	574
155°	1048	1049	1048	1049	1048	483
165°	1139	1142	1139	1142	1139	321
175°	1183	1188	1183	1188	1183	112
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1103.0	1106.0	1103.0	1102.6	1099.3	1098.3	1096.9	1092.6	1084.4	1079.7	1080.8
5°	1208.3	1218.9	1213.0	1212.1	1202.8	1193.6	1187.6	1174.2	1159.8	1150.2	1142.2
7.5°	1330.2	1336.3	1332.5	1326.6	1311.6	1303.1	1289.4	1271.7	1246.0	1226.4	1208.4
10°	1413.1	1418.2	1416.4	1405.5	1394.6	1372.2	1359.5	1334.7	1302.3	1276.6	1252.6
12.5°	1494.6	1500.1	1485.2	1485.7	1465.0	1447.4	1427.4	1396.1	1358.6	1325.5	1295.4
15°	1601.0	1594.3	1594.3	1585.8	1562.7	1538.2	1517.6	1484.7	1437.5	1397.9	1356.2
17.5°	1684.3	1686.6	1683.1	1663.3	1645.0	1619.8	1581.9	1543.6	1499.8	1446.6	1404.0
20°	1734.1	1734.1	1730.4	1716.8	1693.3	1666.3	1625.4	1583.7	1528.1	1474.6	1426.6
22.5°	1754.4	1755.7	1751.2	1740.1	1718.9	1692.6	1657.8	1615.4	1558.1	1497.9	1438.4
25°	1726.6	1734.6	1735.4	1732.4	1726.1	1710.1	1680.2	1636.8	1585.4	1520.1	1456.0
27.5°	1585.2	1595.2	1604.1	1618.7	1638.1	1648.1	1649.5	1627.5	1582.6	1519.7	1455.3
30°	1444.2	1452.7	1480.0	1515.8	1543.7	1569.0	1590.9	1596.8	1571.5	1515.0	1447.2
32.5°	1287.9	1299.3	1326.7	1365.2	1411.6	1454.4	1503.6	1528.7	1528.0	1494.1	1431.4
35°	1063.4	1071.8	1097.1	1137.6	1193.2	1256.8	1334.7	1395.3	1436.7	1433.7	1395.3
37.5°	857.6	867.1	892.7	926.2	980.2	1058.9	1134.3	1217.9	1294.3	1337.1	1324.4
40°	745.8	746.2	771.0	805.6	856.1	924.8	1006.9	1099.6	1184.7	1254.3	1267.7
42.5°	657.4	657.5	673.9	711.1	747.6	812.2	890.7	982.7	1082.3	1162.6	1198.3
45°	543.5	547.3	560.8	583.1	611.7	666.5	729.3	814.8	926.5	1021.7	1081.1
47.5°	460.3	465.8	474.4	492.6	515.4	551.9	603.8	680.6	771.5	876.2	960.8
50°	417.1	418.0	428.9	439.0	458.8	487.9	533.4	597.4	680.8	781.6	875.5
52.5°	380.0	379.9	386.4	399.3	415.3	438.0	474.8	533.1	607.0	697.3	794.2
55°	324.4	326.5	331.6	341.7	353.9	369.9	398.9	442.8	501.0	578.1	666.1
57.5°	282.1	283.2	287.2	291.4	302.7	314.3	336.1	366.5	415.6	478.7	560.8
60°	254.4	254.9	256.2	262.4	271.3	282.3	297.0	322.7	364.0	421.8	486.6
62.5°	227.5	228.2	230.2	234.8	241.7	249.2	264.7	285.3	319.5	368.8	427.3
65°	189.6	190.0	193.0	194.6	200.1	206.8	218.2	232.1	255.7	297.0	341.3
67.5°	158.4	158.4	158.6	160.9	164.6	169.1	175.9	187.0	204.9	230.2	269.2
70°	138.2	138.2	139.0	140.3	142.4	146.2	150.0	158.4	171.5	192.1	222.0
72.5°	119.3	119.6	120.5	120.7	121.8	124.9	127.8	133.2	142.8	158.4	182.6
75°	87.6	88.9	91.0	92.7	94.8	94.3	97.4	100.7	103.6	112.9	126.8
77.5°	65.2	64.6	64.8	66.2	66.5	66.9	69.0	71.6	73.8	78.2	83.2
80°	49.7	49.7	51.0	51.4	51.0	51.4	53.5	54.7	55.6	57.3	61.9
82.5°	37.5	38.3	37.9	38.3	38.5	38.9	40.7	41.0	41.8	42.5	44.4
85°	21.1	21.5	21.9	21.1	21.1	21.1	21.9	22.3	23.2	22.7	23.6
87.5°	12.9	12.5	12.8	12.7	12.9	12.4	12.5	13.0	12.0	12.1	11.8
90°	27.6	27.2	26.8	26.4	26.0	25.2	23.9	22.7	21.5	20.3	18.6
92.5°	40.9	40.6	40.4	40.2	39.8	39.4	38.7	37.9	37.2	36.4	35.3
95°	72.7	72.7	72.7	72.7	72.7	72.4	71.8	71.1	70.6	69.9	68.5
97.5°	113.9	113.9	113.9	113.9	113.9	113.6	112.8	112.1	111.4	110.6	108.9
100°	142.7	142.7	142.7	142.7	142.7	142.4	142.0	141.6	141.2	140.9	138.9
102.5°	175.1	174.9	174.8	174.6	174.4	174.0	173.5	172.9	172.3	171.7	170.1
105°	224.6	223.9	223.3	222.8	222.1	221.5	220.9	220.3	219.7	219.0	218.2
107.5°	272.8	272.8	272.9	272.9	273.0	272.7	272.1	271.6	271.0	270.4	270.3
110°	307.4	306.8	306.2	305.5	304.9	304.8	305.2	305.6	306.1	306.5	306.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	342.8	342.6	342.5	342.4	342.2	342.2	342.3	342.4	342.5	342.5	342.9
115°	397.6	397.8	398.0	398.2	398.4	398.6	398.8	399.0	399.3	399.4	399.8
117.5°	449.9	450.3	450.7	451.1	451.5	452.0	452.7	453.4	454.2	454.9	455.1
120°	489.6	489.3	488.8	488.4	488.0	488.3	489.3	490.4	491.4	492.4	493.0
122.5°	522.8	523.5	524.3	525.0	525.7	526.4	527.1	527.8	528.5	529.2	529.5
125°	579.8	580.2	580.7	581.1	581.5	581.9	582.3	582.7	583.1	583.5	583.7
127.5°	632.6	633.0	633.3	633.7	634.0	634.3	634.8	635.2	635.6	636.0	636.3
130°	667.3	668.0	668.9	669.7	670.5	671.1	671.5	671.9	672.4	672.8	672.8
132.5°	704.1	704.4	704.7	705.0	705.4	705.8	706.2	706.5	706.9	707.4	707.6
135°	754.7	755.3	755.9	756.5	757.2	757.6	758.0	758.5	758.9	759.3	759.3
137.5°	807.9	807.8	807.6	807.6	807.4	807.6	808.1	808.7	809.2	809.7	809.4
140°	840.3	840.5	840.7	840.9	841.1	841.3	841.5	841.7	841.9	842.1	842.1
142.5°	872.7	872.7	872.7	872.8	872.8	872.9	872.9	873.0	873.0	873.1	873.2
145°	916.7	917.3	917.9	918.5	919.1	919.6	919.7	920.0	920.1	920.4	920.1
147.5°	961.2	961.4	961.6	961.9	962.0	962.2	962.4	962.6	962.7	962.9	963.1
150°	988.5	988.6	988.9	989.0	989.3	989.4	989.4	989.4	989.4	989.4	989.4
152.5°	1013.5	1014.0	1014.5	1015.1	1015.7	1015.7	1015.2	1014.6	1014.2	1013.7	1013.5
155°	1048.3	1049.1	1050.0	1050.8	1051.5	1051.5	1050.8	1050.0	1049.1	1048.3	1048.5
157.5°	1079.4	1080.1	1080.8	1081.5	1082.2	1082.2	1081.6	1081.0	1080.4	1079.7	1079.8
160°	1097.1	1098.1	1099.1	1100.1	1101.1	1101.4	1100.7	1100.1	1099.5	1098.9	1099.1
162.5°	1115.5	1116.5	1117.5	1118.6	1119.6	1119.5	1118.4	1117.3	1116.2	1115.1	1115.3
165°	1139.4	1140.2	1141.1	1141.9	1142.6	1142.5	1141.2	1140.0	1138.8	1137.6	1138.0
167.5°	1156.5	1157.8	1159.0	1160.3	1161.6	1161.6	1160.4	1159.1	1157.9	1156.7	1156.7
170°	1166.1	1167.5	1168.9	1170.4	1171.8	1172.0	1170.7	1169.5	1168.2	1167.0	1166.8
172.5°	1174.2	1175.6	1177.0	1178.5	1180.0	1180.0	1178.5	1177.2	1175.8	1174.4	1174.3
175°	1182.6	1184.1	1185.5	1186.9	1188.4	1188.4	1186.9	1185.5	1184.1	1182.6	1182.9
177.5°	1187.1	1188.4	1189.7	1191.0	1192.3	1192.4	1191.3	1190.1	1189.0	1187.8	1187.8
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1077.4	1072.7	1070.3	1064.9	1058.5	1055.1	1052.1	1047.7	1042.0	1035.9	1031.5
5°	1132.0	1122.0	1109.3	1094.2	1080.7	1067.6	1056.2	1044.9	1031.8	1018.3	1004.8
7.5°	1188.2	1168.3	1146.8	1122.0	1097.8	1075.8	1055.6	1036.2	1014.2	994.7	976.8
10°	1227.2	1200.3	1170.4	1138.8	1107.2	1079.8	1052.9	1028.4	1001.5	977.5	957.2
12.5°	1258.9	1227.2	1191.3	1151.9	1114.0	1080.9	1049.8	1018.0	987.3	961.2	934.3
15°	1311.5	1268.1	1219.7	1172.5	1123.2	1078.2	1036.4	999.3	964.4	927.7	902.1
17.5°	1347.7	1296.2	1237.3	1180.6	1122.4	1069.2	1021.1	976.9	936.6	899.1	868.5
20°	1369.3	1312.4	1247.1	1182.6	1117.3	1060.4	1008.6	959.7	918.1	877.6	846.0
22.5°	1381.4	1318.4	1247.1	1179.6	1111.9	1050.4	993.5	942.5	897.1	856.7	821.7
25°	1385.3	1317.9	1245.0	1167.4	1093.3	1028.0	969.0	913.9	863.2	822.8	785.8
27.5°	1379.9	1300.5	1225.8	1146.3	1069.8	1000.9	939.1	881.1	830.4	787.0	749.0
30°	1371.8	1286.7	1206.7	1124.0	1046.6	980.4	915.0	859.4	806.8	761.8	723.4
32.5°	1354.2	1269.9	1183.7	1099.2	1020.6	952.4	890.5	834.6	782.9	736.8	696.1
35°	1319.5	1234.1	1140.5	1053.7	976.6	905.8	847.7	793.8	744.5	695.1	652.2
37.5°	1273.8	1186.5	1093.4	998.3	921.1	854.4	801.0	750.4	702.3	657.3	609.7
40°	1230.7	1151.0	1054.9	960.6	881.4	816.9	767.6	721.7	673.3	628.6	581.0
42.5°	1178.4	1110.6	1013.5	918.8	840.6	778.5	732.6	687.7	643.6	600.3	550.6
45°	1091.2	1039.8	948.8	857.8	779.0	717.5	675.3	635.7	597.0	555.7	509.0
47.5°	991.3	956.5	877.9	784.7	711.9	656.5	615.8	583.4	550.6	509.4	468.3
50°	921.9	899.5	823.6	738.6	669.1	618.1	576.4	546.1	518.6	479.0	442.4
52.5°	847.7	835.8	771.7	690.4	623.2	573.2	537.6	510.3	482.6	449.7	415.4
55°	734.7	741.1	686.7	616.4	553.2	511.0	478.6	455.8	432.3	404.5	378.0
57.5°	619.3	642.4	605.9	544.2	484.9	446.0	421.6	402.4	382.6	359.6	336.9
60°	550.2	569.6	549.0	494.6	442.8	406.5	383.8	369.1	349.3	328.2	310.9
62.5°	482.8	503.6	491.3	447.4	399.3	368.1	348.1	334.4	319.6	301.3	283.3
65°	398.2	411.6	405.8	375.4	341.3	314.7	296.2	286.1	272.6	259.1	243.1
67.5°	304.9	331.0	327.6	311.4	281.9	261.2	249.1	240.1	227.8	217.9	206.9
70°	250.6	274.7	274.3	261.2	245.2	225.9	217.4	209.8	198.8	189.2	180.3
72.5°	205.2	227.2	230.4	220.5	209.5	194.8	186.7	181.5	170.9	164.2	157.1
75°	143.7	159.7	163.9	163.9	158.8	151.2	144.1	140.7	133.2	127.2	123.0
77.5°	94.2	104.3	110.9	112.4	113.2	110.7	104.7	102.3	96.6	94.4	90.4
80°	66.5	73.3	80.9	83.4	85.6	84.7	82.1	80.5	75.0	72.9	71.2
82.5°	46.0	49.7	55.9	61.5	60.9	63.1	60.9	59.6	55.5	54.7	53.0
85°	24.0	24.4	25.3	29.1	31.2	32.0	32.5	31.6	30.3	30.3	27.4
87.5°	11.5	10.9	11.2	10.8	10.7	11.6	12.1	12.0	11.5	10.9	10.3
90°	17.0	15.4	13.7	11.7	9.5	7.3	5.0	2.8	5.0	7.3	9.5
92.5°	34.1	33.0	31.8	30.0	27.4	24.9	22.3	19.7	22.3	24.9	27.4
95°	67.1	65.7	64.2	62.6	60.8	58.9	57.0	55.2	57.0	58.9	60.8
97.5°	107.3	105.6	103.9	102.3	100.8	99.4	97.9	96.5	97.9	99.4	100.8
100°	137.1	135.3	133.5	132.1	131.3	130.5	129.7	128.9	129.7	130.5	131.3
102.5°	168.4	166.7	165.0	164.1	163.7	163.3	163.0	162.7	163.0	163.3	163.7
105°	217.4	216.6	215.8	215.2	215.1	214.8	214.7	214.4	214.7	214.8	215.1
107.5°	270.1	270.1	269.9	269.7	269.5	269.3	269.0	268.7	269.0	269.3	269.5
110°	306.9	307.1	307.3	307.2	306.8	306.3	305.9	305.5	305.9	306.3	306.8



TEST NUMBER: P332950-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	343.3	343.6	344.0	344.2	344.1	344.0	344.0	343.8	344.0	344.0	344.1
115°	400.3	400.7	401.1	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
117.5°	455.4	455.7	456.0	456.1	455.9	455.7	455.6	455.4	455.6	455.7	455.9
120°	493.6	494.2	494.9	494.7	493.9	493.1	492.3	491.5	492.3	493.1	493.9
122.5°	529.8	530.0	530.4	530.4	530.0	529.7	529.3	529.0	529.3	529.7	530.0
125°	583.9	584.2	584.3	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4
127.5°	636.6	636.9	637.3	637.2	636.5	635.9	635.3	634.7	635.3	635.9	636.5
130°	672.8	672.8	672.8	672.5	671.8	671.2	670.7	670.0	670.7	671.2	671.8
132.5°	707.7	707.9	708.1	707.9	707.4	707.0	706.5	706.1	706.5	707.0	707.4
135°	759.3	759.3	759.3	758.7	757.5	756.2	755.0	753.8	755.0	756.2	757.5
137.5°	809.1	808.7	808.4	807.9	807.4	806.8	806.3	805.6	806.3	806.8	807.4
140°	842.1	842.1	842.1	841.9	841.5	841.1	840.7	840.3	840.7	841.1	841.5
142.5°	873.4	873.5	873.7	873.6	873.1	872.7	872.4	872.0	872.4	872.7	873.1
145°	920.0	919.7	919.6	919.0	918.2	917.4	916.6	915.8	916.6	917.4	918.2
147.5°	963.2	963.4	963.5	963.1	962.1	961.2	960.2	959.2	960.2	961.2	962.1
150°	989.4	989.4	989.4	989.0	988.2	987.4	986.5	985.7	986.5	987.4	988.2
152.5°	1013.4	1013.2	1013.0	1012.7	1012.2	1011.7	1011.2	1010.7	1011.2	1011.7	1012.2
155°	1048.7	1048.9	1049.1	1049.2	1049.2	1049.2	1049.2	1049.2	1049.2	1049.2	1049.2
157.5°	1079.8	1079.9	1079.9	1080.1	1080.5	1080.9	1081.2	1081.6	1081.2	1080.9	1080.5
160°	1099.3	1099.5	1099.7	1099.9	1100.1	1100.3	1100.6	1100.7	1100.6	1100.3	1100.1
162.5°	1115.6	1115.7	1115.9	1116.3	1116.8	1117.4	1117.8	1118.4	1117.8	1117.4	1116.8
165°	1138.4	1138.8	1139.2	1139.7	1140.3	1140.9	1141.5	1142.2	1141.5	1140.9	1140.3
167.5°	1156.6	1156.6	1156.5	1157.0	1157.8	1158.6	1159.5	1160.4	1159.5	1158.6	1157.8
170°	1166.6	1166.4	1166.2	1166.6	1167.6	1168.6	1169.7	1170.7	1169.7	1168.6	1167.6
172.5°	1174.3	1174.3	1174.2	1174.6	1175.4	1176.3	1177.2	1178.1	1177.2	1176.3	1175.4
175°	1183.0	1183.3	1183.4	1184.1	1185.1	1186.1	1187.2	1188.2	1187.2	1186.1	1185.1
177.5°	1187.8	1187.8	1187.8	1188.2	1189.1	1189.9	1190.6	1191.5	1190.6	1189.9	1189.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1026.8	1023.4	1019.1	1014.0	1008.0	1002.6	1000.2	1002.2	1003.2	1000.5	1000.2
5°	995.5	985.0	976.6	963.9	953.9	945.4	939.5	937.0	937.9	931.1	929.4
7.5°	960.4	947.9	934.1	919.2	905.1	892.8	886.3	882.7	875.6	872.5	867.4
10°	937.9	921.0	907.5	889.8	873.8	859.0	851.9	846.0	838.8	835.4	828.3
12.5°	914.6	895.0	880.2	861.8	845.5	827.7	820.9	809.9	798.8	791.6	782.4
15°	881.8	858.3	840.1	818.2	798.8	778.6	760.5	740.2	732.7	716.7	707.4
17.5°	843.4	819.5	797.1	767.7	737.8	712.7	693.4	674.0	662.4	652.2	647.5
20°	818.2	796.3	765.1	730.9	697.7	669.9	654.3	641.7	629.0	621.9	616.8
22.5°	794.2	766.3	730.1	693.2	660.0	638.2	625.0	612.0	601.7	594.9	588.1
25°	754.2	717.5	679.1	637.0	614.3	595.3	581.0	570.5	564.1	555.3	551.9
27.5°	713.0	668.5	626.2	597.9	574.3	556.9	544.4	536.5	528.5	522.8	518.5
30°	681.3	636.2	598.3	571.3	547.3	533.0	522.8	513.6	507.2	502.6	499.2
32.5°	649.9	604.8	573.0	544.0	525.1	511.0	500.3	493.4	488.4	482.4	480.4
35°	604.6	564.6	536.8	510.6	491.2	478.6	470.2	463.0	458.8	457.1	455.8
37.5°	561.0	528.2	498.4	476.9	459.6	449.7	439.7	436.3	433.3	430.3	431.7
40°	533.4	502.6	476.1	453.4	439.4	428.5	422.6	418.4	415.8	415.8	415.8
42.5°	509.5	479.3	453.5	433.1	419.2	410.0	403.4	399.8	398.9	398.6	400.7
45°	472.3	444.5	418.4	401.5	389.7	380.4	376.7	373.7	373.7	375.4	375.8
47.5°	435.5	409.4	388.5	369.6	358.8	353.0	349.7	348.2	348.3	350.1	352.0
50°	412.9	387.2	366.5	349.7	339.6	334.1	331.1	330.3	331.1	331.1	334.1
52.5°	388.2	365.3	345.0	330.8	319.3	314.2	312.6	311.4	312.0	313.3	314.6
55°	352.2	331.6	312.2	298.7	290.3	286.9	283.1	283.5	282.7	283.5	283.5
57.5°	316.1	297.5	279.5	268.8	261.4	256.5	252.4	253.6	252.3	252.2	251.4
60°	292.8	272.6	258.3	248.6	240.1	235.9	232.1	233.0	231.7	230.8	229.2
62.5°	267.5	250.6	237.0	227.7	220.9	216.0	212.2	211.4	208.5	205.6	201.9
65°	230.8	217.0	204.8	195.9	189.6	185.8	182.8	180.3	174.0	167.2	163.9
67.5°	195.3	185.2	173.8	166.4	161.2	156.2	150.6	146.3	140.4	136.7	134.6
70°	172.3	162.6	153.0	145.8	140.3	135.7	129.4	126.4	122.2	120.5	118.4
72.5°	150.4	141.4	132.4	125.9	120.1	116.5	111.5	108.5	106.7	106.0	103.9
75°	117.2	110.0	103.2	97.4	92.7	90.2	88.1	86.0	85.1	81.3	79.2
77.5°	85.5	80.7	76.5	72.3	69.0	67.3	63.3	60.8	59.4	57.7	57.2
80°	66.5	63.2	59.0	56.5	51.8	50.1	48.5	48.0	47.6	47.2	46.7
82.5°	50.1	46.7	42.5	41.0	39.7	38.7	37.6	37.2	36.8	37.1	37.0
85°	25.3	23.6	23.6	23.2	22.7	22.3	21.9	21.9	21.5	21.9	21.5
87.5°	10.8	10.9	11.2	10.8	11.5	11.8	11.7	12.0	12.5	12.1	12.3
90°	11.7	13.7	15.4	17.0	18.6	20.3	21.5	22.7	23.9	25.2	26.0
92.5°	30.0	31.8	33.0	34.1	35.3	36.4	37.2	37.9	38.7	39.4	39.8
95°	62.6	64.2	65.7	67.1	68.5	69.9	70.6	71.1	71.8	72.4	72.7
97.5°	102.3	103.9	105.6	107.3	108.9	110.6	111.4	112.1	112.8	113.6	113.9
100°	132.1	133.5	135.3	137.1	138.9	140.9	141.2	141.6	142.0	142.4	142.7
102.5°	164.1	165.0	166.7	168.4	170.1	171.7	172.3	172.9	173.5	174.0	174.4
105°	215.2	215.8	216.6	217.4	218.2	219.0	219.7	220.3	220.9	221.5	222.1
107.5°	269.7	269.9	270.1	270.1	270.3	270.4	271.0	271.6	272.1	272.7	273.0
110°	307.2	307.3	307.1	306.9	306.7	306.5	306.1	305.6	305.2	304.8	304.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.2	344.0	343.6	343.3	342.9	342.5	342.5	342.4	342.3	342.2	342.2
115°	401.2	401.1	400.7	400.3	399.8	399.4	399.3	399.0	398.8	398.6	398.4
117.5°	456.1	456.0	455.7	455.4	455.1	454.9	454.2	453.4	452.7	452.0	451.5
120°	494.7	494.9	494.2	493.6	493.0	492.4	491.4	490.4	489.3	488.3	488.0
122.5°	530.4	530.4	530.0	529.8	529.5	529.2	528.5	527.8	527.1	526.4	525.7
125°	584.4	584.3	584.2	583.9	583.7	583.5	583.1	582.7	582.3	581.9	581.5
127.5°	637.2	637.3	636.9	636.6	636.3	636.0	635.6	635.2	634.8	634.3	634.0
130°	672.5	672.8	672.8	672.8	672.8	672.8	672.4	671.9	671.5	671.1	670.5
132.5°	707.9	708.1	707.9	707.7	707.6	707.4	706.9	706.5	706.2	705.8	705.4
135°	758.7	759.3	759.3	759.3	759.3	759.3	758.9	758.5	758.0	757.6	757.2
137.5°	807.9	808.4	808.7	809.1	809.4	809.7	809.2	808.7	808.1	807.6	807.4
140°	841.9	842.1	842.1	842.1	842.1	842.1	841.9	841.7	841.5	841.3	841.1
142.5°	873.6	873.7	873.5	873.4	873.2	873.1	873.0	873.0	872.9	872.9	872.8
145°	919.0	919.6	919.7	920.0	920.1	920.4	920.1	920.0	919.7	919.6	919.1
147.5°	963.1	963.5	963.4	963.2	963.1	962.9	962.7	962.6	962.4	962.2	962.0
150°	989.0	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.3
152.5°	1012.7	1013.0	1013.2	1013.4	1013.5	1013.7	1014.2	1014.6	1015.2	1015.7	1015.7
155°	1049.2	1049.1	1048.9	1048.7	1048.5	1048.3	1049.1	1050.0	1050.8	1051.5	1051.5
157.5°	1080.1	1079.9	1079.9	1079.8	1079.8	1079.7	1080.4	1081.0	1081.6	1082.2	1082.2
160°	1099.9	1099.7	1099.5	1099.3	1099.1	1098.9	1099.5	1100.1	1100.7	1101.4	1101.1
162.5°	1116.3	1115.9	1115.7	1115.6	1115.3	1115.1	1116.2	1117.3	1118.4	1119.5	1119.6
165°	1139.7	1139.2	1138.8	1138.4	1138.0	1137.6	1138.8	1140.0	1141.2	1142.5	1142.6
167.5°	1157.0	1156.5	1156.6	1156.6	1156.7	1156.7	1157.9	1159.1	1160.4	1161.6	1161.6
170°	1166.6	1166.2	1166.4	1166.6	1166.8	1167.0	1168.2	1169.5	1170.7	1172.0	1171.8
172.5°	1174.6	1174.2	1174.3	1174.3	1174.3	1174.4	1175.8	1177.2	1178.5	1180.0	1180.0
175°	1184.1	1183.4	1183.3	1183.0	1182.9	1182.6	1184.1	1185.5	1186.9	1188.4	1188.4
177.5°	1188.2	1187.8	1187.8	1187.8	1187.8	1187.8	1189.0	1190.1	1191.3	1192.4	1192.3
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	998.1	998.9	996.5	995.8	996.5	998.9	998.1	1000.2	1000.5	1003.2	1002.2
5°	926.1	925.2	923.1	923.5	923.1	925.2	926.1	929.4	931.1	937.9	937.0
7.5°	864.4	861.1	862.0	858.6	862.0	861.1	864.4	867.4	872.5	875.6	882.7
10°	826.6	822.0	818.2	814.8	818.2	822.0	826.6	828.3	835.4	838.8	846.0
12.5°	775.1	771.1	766.0	767.0	766.0	771.1	775.1	782.4	791.6	798.8	809.9
15°	701.9	695.6	685.5	686.7	685.5	695.6	701.9	707.4	716.7	732.7	740.2
17.5°	640.0	640.1	635.4	636.5	635.4	640.1	640.0	647.5	652.2	662.4	674.0
20°	607.9	605.0	605.4	604.2	605.4	605.0	607.9	616.8	621.9	629.0	641.7
22.5°	585.7	582.1	579.2	576.6	579.2	582.1	585.7	588.1	594.9	601.7	612.0
25°	548.1	545.6	541.8	541.0	541.8	545.6	548.1	551.9	555.3	564.1	570.5
27.5°	515.1	514.6	513.1	511.1	513.1	514.6	515.1	518.5	522.8	528.5	536.5
30°	495.9	495.0	494.2	492.9	494.2	495.0	495.9	499.2	502.6	507.2	513.6
32.5°	478.7	478.2	477.4	477.4	477.4	478.2	478.7	480.4	482.4	488.4	493.4
35°	454.2	453.8	452.9	452.5	452.9	453.8	454.2	455.8	457.1	458.8	463.0
37.5°	431.3	432.4	431.8	431.7	431.8	432.4	431.3	431.7	430.3	433.3	436.3
40°	415.4	415.8	416.7	416.3	416.7	415.8	415.4	415.8	415.8	415.8	418.4
42.5°	402.3	402.3	403.5	402.1	403.5	402.3	402.3	400.7	398.6	398.9	399.8
45°	378.7	381.3	380.9	380.9	380.9	381.3	378.7	375.8	375.4	373.7	373.7
47.5°	353.1	355.2	355.8	355.8	355.8	355.2	353.1	352.0	350.1	348.3	348.2
50°	336.2	335.3	336.6	336.2	336.6	335.3	336.2	334.1	331.1	331.1	330.3
52.5°	315.7	315.8	315.8	315.3	315.8	315.8	315.7	314.6	313.3	312.0	311.4
55°	284.0	284.4	283.5	284.0	283.5	284.4	284.0	283.5	283.5	282.7	283.5
57.5°	249.6	247.6	248.4	247.4	248.4	247.6	249.6	251.4	252.2	252.3	253.6
60°	225.0	221.6	220.8	219.1	220.8	221.6	225.0	229.2	230.8	231.7	233.0
62.5°	197.3	195.0	192.1	193.5	192.1	195.0	197.3	201.9	205.6	208.5	211.4
65°	160.5	158.8	157.6	159.2	157.6	158.8	160.5	163.9	167.2	174.0	180.3
67.5°	132.8	132.0	132.0	131.1	132.0	132.0	132.8	134.6	136.7	140.4	146.3
70°	118.4	117.2	117.2	116.3	117.2	117.2	118.4	118.4	120.5	122.2	126.4
72.5°	103.5	102.3	102.7	102.1	102.7	102.3	103.5	103.9	106.0	106.7	108.5
75°	76.7	74.5	74.5	75.0	74.5	74.5	76.7	79.2	81.3	85.1	86.0
77.5°	57.2	56.8	57.4	56.6	57.4	56.8	57.2	57.2	57.7	59.4	60.8
80°	46.7	46.3	45.9	47.2	45.9	46.3	46.7	46.7	47.2	47.6	48.0
82.5°	36.3	36.2	36.1	37.8	36.1	36.2	36.3	37.0	37.1	36.8	37.2
85°	21.9	21.1	21.9	21.1	21.9	21.1	21.9	21.5	21.9	21.5	21.9
87.5°	13.0	12.8	12.5	12.9	12.5	12.8	13.0	12.3	12.1	12.5	12.0
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.2	23.9	22.7
92.5°	40.2	40.4	40.6	40.9	40.6	40.4	40.2	39.8	39.4	38.7	37.9
95°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.4	71.8	71.1
97.5°	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.6	112.8	112.1
100°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.4	142.0	141.6
102.5°	174.6	174.8	174.9	175.1	174.9	174.8	174.6	174.4	174.0	173.5	172.9
105°	222.8	223.3	223.9	224.6	223.9	223.3	222.8	222.1	221.5	220.9	220.3
107.5°	272.9	272.9	272.8	272.8	272.8	272.9	272.9	273.0	272.7	272.1	271.6
110°	305.5	306.2	306.8	307.4	306.8	306.2	305.5	304.9	304.8	305.2	305.6



TEST NUMBER: P332950-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	342.4	342.5	342.6	342.8	342.6	342.5	342.4	342.2	342.2	342.3	342.4
115°	398.2	398.0	397.8	397.6	397.8	398.0	398.2	398.4	398.6	398.8	399.0
117.5°	451.1	450.7	450.3	449.9	450.3	450.7	451.1	451.5	452.0	452.7	453.4
120°	488.4	488.8	489.3	489.6	489.3	488.8	488.4	488.0	488.3	489.3	490.4
122.5°	525.0	524.3	523.5	522.8	523.5	524.3	525.0	525.7	526.4	527.1	527.8
125°	581.1	580.7	580.2	579.8	580.2	580.7	581.1	581.5	581.9	582.3	582.7
127.5°	633.7	633.3	633.0	632.6	633.0	633.3	633.7	634.0	634.3	634.8	635.2
130°	669.7	668.9	668.0	667.3	668.0	668.9	669.7	670.5	671.1	671.5	671.9
132.5°	705.0	704.7	704.4	704.1	704.4	704.7	705.0	705.4	705.8	706.2	706.5
135°	756.5	755.9	755.3	754.7	755.3	755.9	756.5	757.2	757.6	758.0	758.5
137.5°	807.6	807.6	807.8	807.9	807.8	807.6	807.6	807.4	807.6	808.1	808.7
140°	840.9	840.7	840.5	840.3	840.5	840.7	840.9	841.1	841.3	841.5	841.7
142.5°	872.8	872.7	872.7	872.7	872.7	872.7	872.8	872.8	872.9	872.9	873.0
145°	918.5	917.9	917.3	916.7	917.3	917.9	918.5	919.1	919.6	919.7	920.0
147.5°	961.9	961.6	961.4	961.2	961.4	961.6	961.9	962.0	962.2	962.4	962.6
150°	989.0	988.9	988.6	988.5	988.6	988.9	989.0	989.3	989.4	989.4	989.4
152.5°	1015.1	1014.5	1014.0	1013.5	1014.0	1014.5	1015.1	1015.7	1015.7	1015.2	1014.6
155°	1050.8	1050.0	1049.1	1048.3	1049.1	1050.0	1050.8	1051.5	1051.5	1050.8	1050.0
157.5°	1081.5	1080.8	1080.1	1079.4	1080.1	1080.8	1081.5	1082.2	1082.2	1081.6	1081.0
160°	1100.1	1099.1	1098.1	1097.1	1098.1	1099.1	1100.1	1101.1	1101.4	1100.7	1100.1
162.5°	1118.6	1117.5	1116.5	1115.5	1116.5	1117.5	1118.6	1119.6	1119.5	1118.4	1117.3
165°	1141.9	1141.1	1140.2	1139.4	1140.2	1141.1	1141.9	1142.6	1142.5	1141.2	1140.0
167.5°	1160.3	1159.0	1157.8	1156.5	1157.8	1159.0	1160.3	1161.6	1161.6	1160.4	1159.1
170°	1170.4	1168.9	1167.5	1166.1	1167.5	1168.9	1170.4	1171.8	1172.0	1170.7	1169.5
172.5°	1178.5	1177.0	1175.6	1174.2	1175.6	1177.0	1178.5	1180.0	1180.0	1178.5	1177.2
175°	1186.9	1185.5	1184.1	1182.6	1184.1	1185.5	1186.9	1188.4	1188.4	1186.9	1185.5
177.5°	1191.0	1189.7	1188.4	1187.1	1188.4	1189.7	1191.0	1192.3	1192.4	1191.3	1190.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1000.2	1002.6	1008.0	1014.0	1019.1	1023.4	1026.8	1031.5	1035.9	1042.0	1047.7
5°	939.5	945.4	953.9	963.9	976.6	985.0	995.5	1004.8	1018.3	1031.8	1044.9
7.5°	886.3	892.8	905.1	919.2	934.1	947.9	960.4	976.8	994.7	1014.2	1036.2
10°	851.9	859.0	873.8	889.8	907.5	921.0	937.9	957.2	977.5	1001.5	1028.4
12.5°	820.9	827.7	845.5	861.8	880.2	895.0	914.6	934.3	961.2	987.3	1018.0
15°	760.5	778.6	798.8	818.2	840.1	858.3	881.8	902.1	927.7	964.4	999.3
17.5°	693.4	712.7	737.8	767.7	797.1	819.5	843.4	868.5	899.1	936.6	976.9
20°	654.3	669.9	697.7	730.9	765.1	796.3	818.2	846.0	877.6	918.1	959.7
22.5°	625.0	638.2	660.0	693.2	730.1	766.3	794.2	821.7	856.7	897.1	942.5
25°	581.0	595.3	614.3	637.0	679.1	717.5	754.2	785.8	822.8	863.2	913.9
27.5°	544.4	556.9	574.3	597.9	626.2	668.5	713.0	749.0	787.0	830.4	881.1
30°	522.8	533.0	547.3	571.3	598.3	636.2	681.3	723.4	761.8	806.8	859.4
32.5°	500.3	511.0	525.1	544.0	573.0	604.8	649.9	696.1	736.8	782.9	834.6
35°	470.2	478.6	491.2	510.6	536.8	564.6	604.6	652.2	695.1	744.5	793.8
37.5°	439.7	449.7	459.6	476.9	498.4	528.2	561.0	609.7	657.3	702.3	750.4
40°	422.6	428.5	439.4	453.4	476.1	502.6	533.4	581.0	628.6	673.3	721.7
42.5°	403.4	410.0	419.2	433.1	453.5	479.3	509.5	550.6	600.3	643.6	687.7
45°	376.7	380.4	389.7	401.5	418.4	444.5	472.3	509.0	555.7	597.0	635.7
47.5°	349.7	353.0	358.8	369.6	388.5	409.4	435.5	468.3	509.4	550.6	583.4
50°	331.1	334.1	339.6	349.7	366.5	387.2	412.9	442.4	479.0	518.6	546.1
52.5°	312.6	314.2	319.3	330.8	345.0	365.3	388.2	415.4	449.7	482.6	510.3
55°	283.1	286.9	290.3	298.7	312.2	331.6	352.2	378.0	404.5	432.3	455.8
57.5°	252.4	256.5	261.4	268.8	279.5	297.5	316.1	336.9	359.6	382.6	402.4
60°	232.1	235.9	240.1	248.6	258.3	272.6	292.8	310.9	328.2	349.3	369.1
62.5°	212.2	216.0	220.9	227.7	237.0	250.6	267.5	283.3	301.3	319.6	334.4
65°	182.8	185.8	189.6	195.9	204.8	217.0	230.8	243.1	259.1	272.6	286.1
67.5°	150.6	156.2	161.2	166.4	173.8	185.2	195.3	206.9	217.9	227.8	240.1
70°	129.4	135.7	140.3	145.8	153.0	162.6	172.3	180.3	189.2	198.8	209.8
72.5°	111.5	116.5	120.1	125.9	132.4	141.4	150.4	157.1	164.2	170.9	181.5
75°	88.1	90.2	92.7	97.4	103.2	110.0	117.2	123.0	127.2	133.2	140.7
77.5°	63.3	67.3	69.0	72.3	76.5	80.7	85.5	90.4	94.4	96.6	102.3
80°	48.5	50.1	51.8	56.5	59.0	63.2	66.5	71.2	72.9	75.0	80.5
82.5°	37.6	38.7	39.7	41.0	42.5	46.7	50.1	53.0	54.7	55.5	59.6
85°	21.9	22.3	22.7	23.2	23.6	23.6	25.3	27.4	30.3	30.3	31.6
87.5°	11.7	11.8	11.5	10.8	11.2	10.9	10.8	10.3	10.9	11.5	12.0
90°	21.5	20.3	18.6	17.0	15.4	13.7	11.7	9.5	7.3	5.0	2.8
92.5°	37.2	36.4	35.3	34.1	33.0	31.8	30.0	27.4	24.9	22.3	19.7
95°	70.6	69.9	68.5	67.1	65.7	64.2	62.6	60.8	58.9	57.0	55.2
97.5°	111.4	110.6	108.9	107.3	105.6	103.9	102.3	100.8	99.4	97.9	96.5
100°	141.2	140.9	138.9	137.1	135.3	133.5	132.1	131.3	130.5	129.7	128.9
102.5°	172.3	171.7	170.1	168.4	166.7	165.0	164.1	163.7	163.3	163.0	162.7
105°	219.7	219.0	218.2	217.4	216.6	215.8	215.2	215.1	214.8	214.7	214.4
107.5°	271.0	270.4	270.3	270.1	270.1	269.9	269.7	269.5	269.3	269.0	268.7
110°	306.1	306.5	306.7	306.9	307.1	307.3	307.2	306.8	306.3	305.9	305.5



TEST NUMBER: P332950-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	342.5	342.5	342.9	343.3	343.6	344.0	344.2	344.1	344.0	344.0	343.8
115°	399.3	399.4	399.8	400.3	400.7	401.1	401.2	401.2	401.2	401.2	401.2
117.5°	454.2	454.9	455.1	455.4	455.7	456.0	456.1	455.9	455.7	455.6	455.4
120°	491.4	492.4	493.0	493.6	494.2	494.9	494.7	493.9	493.1	492.3	491.5
122.5°	528.5	529.2	529.5	529.8	530.0	530.4	530.4	530.0	529.7	529.3	529.0
125°	583.1	583.5	583.7	583.9	584.2	584.3	584.4	584.4	584.4	584.4	584.4
127.5°	635.6	636.0	636.3	636.6	636.9	637.3	637.2	636.5	635.9	635.3	634.7
130°	672.4	672.8	672.8	672.8	672.8	672.8	672.5	671.8	671.2	670.7	670.0
132.5°	706.9	707.4	707.6	707.7	707.9	708.1	707.9	707.4	707.0	706.5	706.1
135°	758.9	759.3	759.3	759.3	759.3	759.3	758.7	757.5	756.2	755.0	753.8
137.5°	809.2	809.7	809.4	809.1	808.7	808.4	807.9	807.4	806.8	806.3	805.6
140°	841.9	842.1	842.1	842.1	842.1	842.1	841.9	841.5	841.1	840.7	840.3
142.5°	873.0	873.1	873.2	873.4	873.5	873.7	873.6	873.1	872.7	872.4	872.0
145°	920.1	920.4	920.1	920.0	919.7	919.6	919.0	918.2	917.4	916.6	915.8
147.5°	962.7	962.9	963.1	963.2	963.4	963.5	963.1	962.1	961.2	960.2	959.2
150°	989.4	989.4	989.4	989.4	989.4	989.4	989.0	988.2	987.4	986.5	985.7
152.5°	1014.2	1013.7	1013.5	1013.4	1013.2	1013.0	1012.7	1012.2	1011.7	1011.2	1010.7
155°	1049.1	1048.3	1048.5	1048.7	1048.9	1049.1	1049.2	1049.2	1049.2	1049.2	1049.2
157.5°	1080.4	1079.7	1079.8	1079.8	1079.9	1079.9	1080.1	1080.5	1080.9	1081.2	1081.6
160°	1099.5	1098.9	1099.1	1099.3	1099.5	1099.7	1099.9	1100.1	1100.3	1100.6	1100.7
162.5°	1116.2	1115.1	1115.3	1115.6	1115.7	1115.9	1116.3	1116.8	1117.4	1117.8	1118.4
165°	1138.8	1137.6	1138.0	1138.4	1138.8	1139.2	1139.7	1140.3	1140.9	1141.5	1142.2
167.5°	1157.9	1156.7	1156.7	1156.6	1156.6	1156.5	1157.0	1157.8	1158.6	1159.5	1160.4
170°	1168.2	1167.0	1166.8	1166.6	1166.4	1166.2	1166.6	1167.6	1168.6	1169.7	1170.7
172.5°	1175.8	1174.4	1174.3	1174.3	1174.3	1174.2	1174.6	1175.4	1176.3	1177.2	1178.1
175°	1184.1	1182.6	1182.9	1183.0	1183.3	1183.4	1184.1	1185.1	1186.1	1187.2	1188.2
177.5°	1189.0	1187.8	1187.8	1187.8	1187.8	1187.8	1188.2	1189.1	1189.9	1190.6	1191.5
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1052.1	1055.1	1058.5	1064.9	1070.3	1072.7	1077.4	1080.8	1079.7	1084.4	1092.6
5°	1056.2	1067.6	1080.7	1094.2	1109.3	1122.0	1132.0	1142.2	1150.2	1159.8	1174.2
7.5°	1055.6	1075.8	1097.8	1122.0	1146.8	1168.3	1188.2	1208.4	1226.4	1246.0	1271.7
10°	1052.9	1079.8	1107.2	1138.8	1170.4	1200.3	1227.2	1252.6	1276.6	1302.3	1334.7
12.5°	1049.8	1080.9	1114.0	1151.9	1191.3	1227.2	1258.9	1295.4	1325.5	1358.6	1396.1
15°	1036.4	1078.2	1123.2	1172.5	1219.7	1268.1	1311.5	1356.2	1397.9	1437.5	1484.7
17.5°	1021.1	1069.2	1122.4	1180.6	1237.3	1296.2	1347.7	1404.0	1446.6	1499.8	1543.6
20°	1008.6	1060.4	1117.3	1182.6	1247.1	1312.4	1369.3	1426.6	1474.6	1528.1	1583.7
22.5°	993.5	1050.4	1111.9	1179.6	1247.1	1318.4	1381.4	1438.4	1497.9	1558.1	1615.4
25°	969.0	1028.0	1093.3	1167.4	1245.0	1317.9	1385.3	1456.0	1520.1	1585.4	1636.8
27.5°	939.1	1000.9	1069.8	1146.3	1225.8	1300.5	1379.9	1455.3	1519.7	1582.6	1627.5
30°	915.0	980.4	1046.6	1124.0	1206.7	1286.7	1371.8	1447.2	1515.0	1571.5	1596.8
32.5°	890.5	952.4	1020.6	1099.2	1183.7	1269.9	1354.2	1431.4	1494.1	1528.0	1528.7
35°	847.7	905.8	976.6	1053.7	1140.5	1234.1	1319.5	1395.3	1433.7	1436.7	1395.3
37.5°	801.0	854.4	921.1	998.3	1093.4	1186.5	1273.8	1324.4	1337.1	1294.3	1217.9
40°	767.6	816.9	881.4	960.6	1054.9	1151.0	1230.7	1267.7	1254.3	1184.7	1099.6
42.5°	732.6	778.5	840.6	918.8	1013.5	1110.6	1178.4	1198.3	1162.6	1082.3	982.7
45°	675.3	717.5	779.0	857.8	948.8	1039.8	1091.2	1081.1	1021.7	926.5	814.8
47.5°	615.8	656.5	711.9	784.7	877.9	956.5	991.3	960.8	876.2	771.5	680.6
50°	576.4	618.1	669.1	738.6	823.6	899.5	921.9	875.5	781.6	680.8	597.4
52.5°	537.6	573.2	623.2	690.4	771.7	835.8	847.7	794.2	697.3	607.0	533.1
55°	478.6	511.0	553.2	616.4	686.7	741.1	734.7	666.1	578.1	501.0	442.8
57.5°	421.6	446.0	484.9	544.2	605.9	642.4	619.3	560.8	478.7	415.6	366.5
60°	383.8	406.5	442.8	494.6	549.0	569.6	550.2	486.6	421.8	364.0	322.7
62.5°	348.1	368.1	399.3	447.4	491.3	503.6	482.8	427.3	368.8	319.5	285.3
65°	296.2	314.7	341.3	375.4	405.8	411.6	398.2	341.3	297.0	255.7	232.1
67.5°	249.1	261.2	281.9	311.4	327.6	331.0	304.9	269.2	230.2	204.9	187.0
70°	217.4	225.9	245.2	261.2	274.3	274.7	250.6	222.0	192.1	171.5	158.4
72.5°	186.7	194.8	209.5	220.5	230.4	227.2	205.2	182.6	158.4	142.8	133.2
75°	144.1	151.2	158.8	163.9	163.9	159.7	143.7	126.8	112.9	103.6	100.7
77.5°	104.7	110.7	113.2	112.4	110.9	104.3	94.2	83.2	78.2	73.8	71.6
80°	82.1	84.7	85.6	83.4	80.9	73.3	66.5	61.9	57.3	55.6	54.7
82.5°	60.9	63.1	60.9	61.5	55.9	49.7	46.0	44.4	42.5	41.8	41.0
85°	32.5	32.0	31.2	29.1	25.3	24.4	24.0	23.6	22.7	23.2	22.3
87.5°	12.1	11.6	10.7	10.8	11.2	10.9	11.5	11.8	12.1	12.0	13.0
90°	5.0	7.3	9.5	11.7	13.7	15.4	17.0	18.6	20.3	21.5	22.7
92.5°	22.3	24.9	27.4	30.0	31.8	33.0	34.1	35.3	36.4	37.2	37.9
95°	57.0	58.9	60.8	62.6	64.2	65.7	67.1	68.5	69.9	70.6	71.1
97.5°	97.9	99.4	100.8	102.3	103.9	105.6	107.3	108.9	110.6	111.4	112.1
100°	129.7	130.5	131.3	132.1	133.5	135.3	137.1	138.9	140.9	141.2	141.6
102.5°	163.0	163.3	163.7	164.1	165.0	166.7	168.4	170.1	171.7	172.3	172.9
105°	214.7	214.8	215.1	215.2	215.8	216.6	217.4	218.2	219.0	219.7	220.3
107.5°	269.0	269.3	269.5	269.7	269.9	270.1	270.1	270.3	270.4	271.0	271.6
110°	305.9	306.3	306.8	307.2	307.3	307.1	306.9	306.7	306.5	306.1	305.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.0	344.0	344.1	344.2	344.0	343.6	343.3	342.9	342.5	342.5	342.4
115°	401.2	401.2	401.2	401.2	401.1	400.7	400.3	399.8	399.4	399.3	399.0
117.5°	455.6	455.7	455.9	456.1	456.0	455.7	455.4	455.1	454.9	454.2	453.4
120°	492.3	493.1	493.9	494.7	494.9	494.2	493.6	493.0	492.4	491.4	490.4
122.5°	529.3	529.7	530.0	530.4	530.4	530.0	529.8	529.5	529.2	528.5	527.8
125°	584.4	584.4	584.4	584.4	584.3	584.2	583.9	583.7	583.5	583.1	582.7
127.5°	635.3	635.9	636.5	637.2	637.3	636.9	636.6	636.3	636.0	635.6	635.2
130°	670.7	671.2	671.8	672.5	672.8	672.8	672.8	672.8	672.8	672.4	671.9
132.5°	706.5	707.0	707.4	707.9	708.1	707.9	707.7	707.6	707.4	706.9	706.5
135°	755.0	756.2	757.5	758.7	759.3	759.3	759.3	759.3	759.3	758.9	758.5
137.5°	806.3	806.8	807.4	807.9	808.4	808.7	809.1	809.4	809.7	809.2	808.7
140°	840.7	841.1	841.5	841.9	842.1	842.1	842.1	842.1	842.1	841.9	841.7
142.5°	872.4	872.7	873.1	873.6	873.7	873.5	873.4	873.2	873.1	873.0	873.0
145°	916.6	917.4	918.2	919.0	919.6	919.7	920.0	920.1	920.4	920.1	920.0
147.5°	960.2	961.2	962.1	963.1	963.5	963.4	963.2	963.1	962.9	962.7	962.6
150°	986.5	987.4	988.2	989.0	989.4	989.4	989.4	989.4	989.4	989.4	989.4
152.5°	1011.2	1011.7	1012.2	1012.7	1013.0	1013.2	1013.4	1013.5	1013.7	1014.2	1014.6
155°	1049.2	1049.2	1049.2	1049.2	1049.1	1048.9	1048.7	1048.5	1048.3	1049.1	1050.0
157.5°	1081.2	1080.9	1080.5	1080.1	1079.9	1079.9	1079.8	1079.8	1079.7	1080.4	1081.0
160°	1100.6	1100.3	1100.1	1099.9	1099.7	1099.5	1099.3	1099.1	1098.9	1099.5	1100.1
162.5°	1117.8	1117.4	1116.8	1116.3	1115.9	1115.7	1115.6	1115.3	1115.1	1116.2	1117.3
165°	1141.5	1140.9	1140.3	1139.7	1139.2	1138.8	1138.4	1138.0	1137.6	1138.8	1140.0
167.5°	1159.5	1158.6	1157.8	1157.0	1156.5	1156.6	1156.6	1156.7	1156.7	1157.9	1159.1
170°	1169.7	1168.6	1167.6	1166.6	1166.2	1166.4	1166.6	1166.8	1167.0	1168.2	1169.5
172.5°	1177.2	1176.3	1175.4	1174.6	1174.2	1174.3	1174.3	1174.3	1174.4	1175.8	1177.2
175°	1187.2	1186.1	1185.1	1184.1	1183.4	1183.3	1183.0	1182.9	1182.6	1184.1	1185.5
177.5°	1190.6	1189.9	1189.1	1188.2	1187.8	1187.8	1187.8	1187.8	1187.8	1189.0	1190.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1096.9	1098.3	1099.3	1102.6	1103.0	1106.0	1103.0
5°	1187.6	1193.6	1202.8	1212.1	1213.0	1218.9	1208.3
7.5°	1289.4	1303.1	1311.6	1326.6	1332.5	1336.3	1330.2
10°	1359.5	1372.2	1394.6	1405.5	1416.4	1418.2	1413.1
12.5°	1427.4	1447.4	1465.0	1485.7	1485.2	1500.1	1494.6
15°	1517.6	1538.2	1562.7	1585.8	1594.3	1594.3	1601.0
17.5°	1581.9	1619.8	1645.0	1663.3	1683.1	1686.6	1684.3
20°	1625.4	1666.3	1693.3	1716.8	1730.4	1734.1	1734.1
22.5°	1657.8	1692.6	1718.9	1740.1	1751.2	1755.7	1754.4
25°	1680.2	1710.1	1726.1	1732.4	1735.4	1734.6	1726.6
27.5°	1649.5	1648.1	1638.1	1618.7	1604.1	1595.2	1585.2
30°	1590.9	1569.0	1543.7	1515.8	1480.0	1452.7	1444.2
32.5°	1503.6	1454.4	1411.6	1365.2	1326.7	1299.3	1287.9
35°	1334.7	1256.8	1193.2	1137.6	1097.1	1071.8	1063.4
37.5°	1134.3	1058.9	980.2	926.2	892.7	867.1	857.6
40°	1006.9	924.8	856.1	805.6	771.0	746.2	745.8
42.5°	890.7	812.2	747.6	711.1	673.9	657.5	657.4
45°	729.3	666.5	611.7	583.1	560.8	547.3	543.5
47.5°	603.8	551.9	515.4	492.6	474.4	465.8	460.3
50°	533.4	487.9	458.8	439.0	428.9	418.0	417.1
52.5°	474.8	438.0	415.3	399.3	386.4	379.9	380.0
55°	398.9	369.9	353.9	341.7	331.6	326.5	324.4
57.5°	336.1	314.3	302.7	291.4	287.2	283.2	282.1
60°	297.0	282.3	271.3	262.4	256.2	254.9	254.4
62.5°	264.7	249.2	241.7	234.8	230.2	228.2	227.5
65°	218.2	206.8	200.1	194.6	193.0	190.0	189.6
67.5°	175.9	169.1	164.6	160.9	158.6	158.4	158.4
70°	150.0	146.2	142.4	140.3	139.0	138.2	138.2
72.5°	127.8	124.9	121.8	120.7	120.5	119.6	119.3
75°	97.4	94.3	94.8	92.7	91.0	88.9	87.6
77.5°	69.0	66.9	66.5	66.2	64.8	64.6	65.2
80°	53.5	51.4	51.0	51.4	51.0	49.7	49.7
82.5°	40.7	38.9	38.5	38.3	37.9	38.3	37.5
85°	21.9	21.1	21.1	21.1	21.9	21.5	21.1
87.5°	12.5	12.4	12.9	12.7	12.8	12.5	12.9
90°	23.9	25.2	26.0	26.4	26.8	27.2	27.6
92.5°	38.7	39.4	39.8	40.2	40.4	40.6	40.9
95°	71.8	72.4	72.7	72.7	72.7	72.7	72.7
97.5°	112.8	113.6	113.9	113.9	113.9	113.9	113.9
100°	142.0	142.4	142.7	142.7	142.7	142.7	142.7
102.5°	173.5	174.0	174.4	174.6	174.8	174.9	175.1
105°	220.9	221.5	222.1	222.8	223.3	223.9	224.6
107.5°	272.1	272.7	273.0	272.9	272.9	272.8	272.8
110°	305.2	304.8	304.9	305.5	306.2	306.8	307.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.3	342.2	342.2	342.4	342.5	342.6	342.8
115°	398.8	398.6	398.4	398.2	398.0	397.8	397.6
117.5°	452.7	452.0	451.5	451.1	450.7	450.3	449.9
120°	489.3	488.3	488.0	488.4	488.8	489.3	489.6
122.5°	527.1	526.4	525.7	525.0	524.3	523.5	522.8
125°	582.3	581.9	581.5	581.1	580.7	580.2	579.8
127.5°	634.8	634.3	634.0	633.7	633.3	633.0	632.6
130°	671.5	671.1	670.5	669.7	668.9	668.0	667.3
132.5°	706.2	705.8	705.4	705.0	704.7	704.4	704.1
135°	758.0	757.6	757.2	756.5	755.9	755.3	754.7
137.5°	808.1	807.6	807.4	807.6	807.6	807.8	807.9
140°	841.5	841.3	841.1	840.9	840.7	840.5	840.3
142.5°	872.9	872.9	872.8	872.8	872.7	872.7	872.7
145°	919.7	919.6	919.1	918.5	917.9	917.3	916.7
147.5°	962.4	962.2	962.0	961.9	961.6	961.4	961.2
150°	989.4	989.4	989.3	989.0	988.9	988.6	988.5
152.5°	1015.2	1015.7	1015.7	1015.1	1014.5	1014.0	1013.5
155°	1050.8	1051.5	1051.5	1050.8	1050.0	1049.1	1048.3
157.5°	1081.6	1082.2	1082.2	1081.5	1080.8	1080.1	1079.4
160°	1100.7	1101.4	1101.1	1100.1	1099.1	1098.1	1097.1
162.5°	1118.4	1119.5	1119.6	1118.6	1117.5	1116.5	1115.5
165°	1141.2	1142.5	1142.6	1141.9	1141.1	1140.2	1139.4
167.5°	1160.4	1161.6	1161.6	1160.3	1159.0	1157.8	1156.5
170°	1170.7	1172.0	1171.8	1170.4	1168.9	1167.5	1166.1
172.5°	1178.5	1180.0	1180.0	1178.5	1177.0	1175.6	1174.2
175°	1186.9	1188.4	1188.4	1186.9	1185.5	1184.1	1182.6
177.5°	1191.3	1192.4	1192.3	1191.0	1189.7	1188.4	1187.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0

(END OF REPORT)