

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: P332919-935

Luminaire Tested: **SA4XXRDIP-C575D1205U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332919-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C575D1205U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

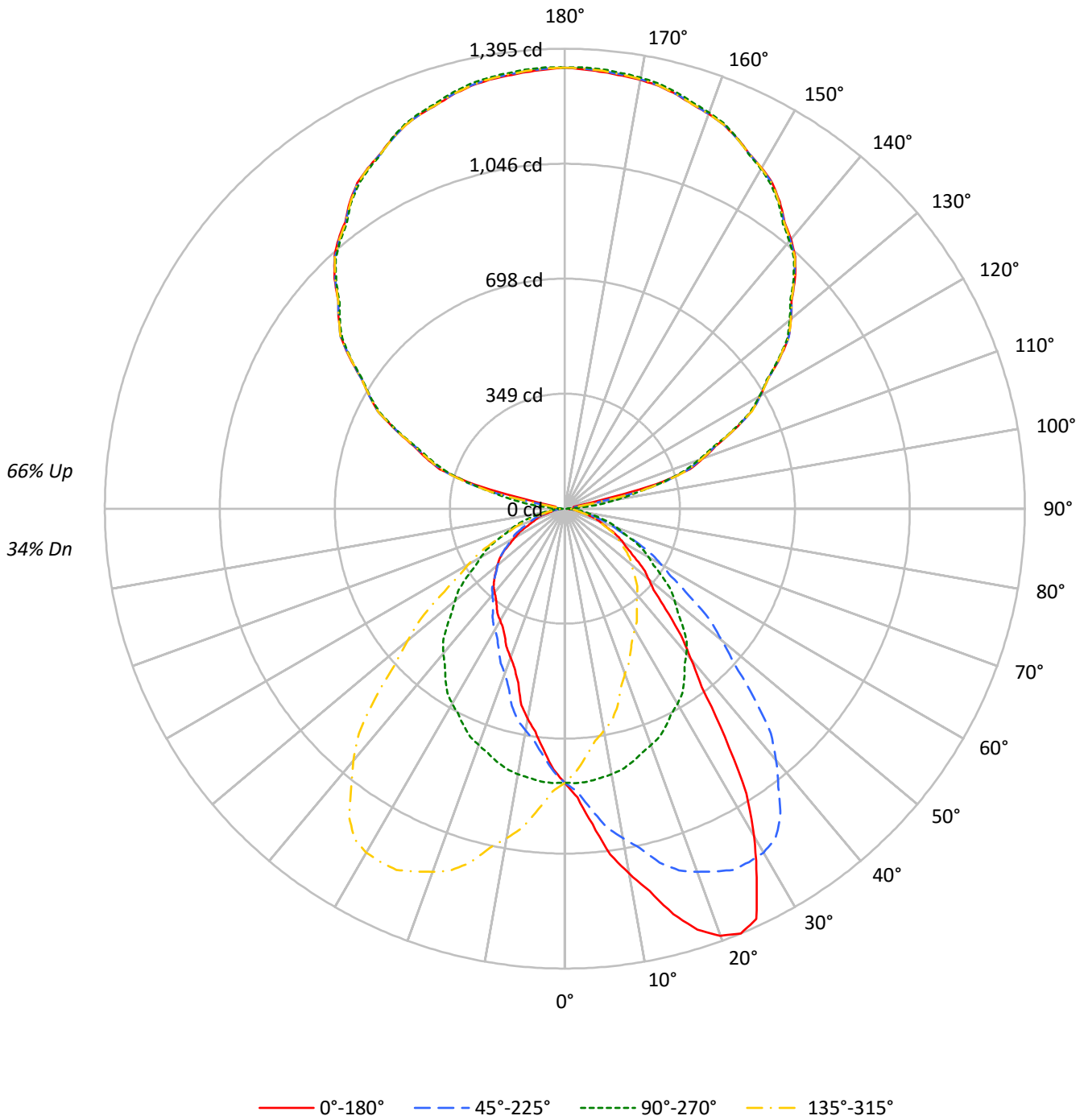
Lumens per Lamp: N/A
Luminaire Lumens: 6243.2 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.4
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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	94	90	87	83	85	82	79	76	65	63	61	51	49	48	37	36	35	29				
2	86	79	73	69	78	72	67	63	58	54	51	45	42	41	33	31	30	25				
3	79	70	63	57	71	63	57	53	51	47	43	40	37	35	29	28	26	21				
4	72	62	54	49	65	56	50	45	46	41	37	36	32	30	26	24	23	19				
5	66	55	47	42	60	50	43	38	41	36	32	32	29	26	24	22	20	16				
6	61	49	42	36	55	45	38	33	37	32	28	29	25	23	22	19	18	14				
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	17	16	13				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	14	13	10				
10	45	34	27	22	41	31	25	21	25	21	18	20	17	15	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6713	6713	6713	6713
5°	7786	6733	5951	6733
10°	9211	6703	5311	6703
15°	10639	6641	4563	6641
20°	11846	6556	4127	6556
25°	12229	6472	3832	6472
30°	10705	6371	3653	6371
35°	8333	6220	3546	6220
40°	6249	6048	3488	6048
45°	4933	5771	3457	5771
50°	4166	5452	3357	5452
55°	3631	5102	3178	5102
60°	3266	4737	2813	4737
65°	2881	4346	2420	4346
70°	2594	3939	2183	3939
75°	2174	3490	1862	3490
80°	1836	2975	1743	2975
85°	1556	2325	1556	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.3
10°-20°	243.0	3.9
20°-30°	380.1	6.1
30°-40°	422.5	6.8
40°-50°	374.9	6.0
50°-60°	292.1	4.7
60°-70°	191.3	3.1
70°-80°	94.1	1.5
80°-90°	27.1	0.4
90°-100°	45.8	0.7
100°-110°	291.7	4.7
110°-120°	558.0	8.9
120°-130°	708.4	11.3
130°-140°	757.9	12.1
140°-150°	708.7	11.4
150°-160°	571.5	9.2
160°-170°	368.6	5.9
170°-180°	127.0	2.0
0°-30°	703.7	11.3
0°-40°	1126.2	18.0
0°-60°	1793.2	28.7
0°-90°	2105.6	33.7
90°-120°	895.4	14.3
90°-150°	3070.4	49.2
90°-180°	4138.0	66.3
0°-180°	6243.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	832	832	832	832	832	
5°	961	831	734	831	961	97
15°	1273	795	546	795	1273	362
25°	1373	727	430	727	1373	609
35°	846	631	360	631	846	530
45°	432	506	303	506	432	342
55°	258	362	226	362	258	235
65°	151	228	127	228	151	152
75°	70	112	60	112	70	77
85°	17	25	17	25	17	20
90°	30	3	30	3	30	14
95°	29	55	29	55	29	23
105°	285	301	285	301	285	249
115°	566	562	566	562	566	561
125°	796	790	796	790	796	709
135°	987	980	987	980	987	760
145°	1136	1130	1136	1130	1136	710
155°	1238	1240	1238	1240	1238	571
165°	1302	1308	1302	1308	1302	368
175°	1330	1338	1330	1338	1330	127
180°	1338	1338	1338	1338	1338	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	877.0	879.4	877.0	876.8	874.1	873.3	872.2	868.7	862.3	858.5	859.4
5°	960.8	969.1	964.5	963.8	956.4	949.1	944.3	933.7	922.2	914.6	908.2
7.5°	1057.7	1062.5	1059.5	1054.8	1042.9	1036.1	1025.3	1011.2	990.8	975.1	960.9
10°	1123.6	1127.6	1126.3	1117.6	1108.9	1091.1	1081.1	1061.3	1035.4	1015.0	995.9
12.5°	1188.4	1192.7	1180.9	1181.4	1164.8	1150.8	1134.9	1110.1	1080.2	1053.9	1030.0
15°	1273.0	1267.7	1267.7	1260.9	1242.5	1223.1	1206.7	1180.5	1143.0	1111.6	1078.4
17.5°	1339.2	1341.1	1338.3	1322.5	1308.0	1288.0	1257.8	1227.4	1192.5	1150.2	1116.4
20°	1378.9	1378.9	1375.9	1365.1	1346.3	1324.9	1292.4	1259.3	1215.0	1172.5	1134.3
22.5°	1394.9	1396.0	1392.5	1383.6	1366.8	1345.8	1318.2	1284.4	1238.9	1191.0	1143.7
25°	1372.9	1379.1	1379.8	1377.5	1372.5	1359.8	1336.0	1301.5	1260.6	1208.7	1157.8
27.5°	1260.4	1268.4	1275.5	1287.0	1302.4	1310.5	1311.6	1294.0	1258.4	1208.4	1157.2
30°	1148.4	1155.0	1176.8	1205.3	1227.4	1247.5	1265.0	1269.6	1249.6	1204.6	1150.7
32.5°	1024.0	1033.1	1054.9	1085.5	1122.4	1156.4	1195.6	1215.5	1215.0	1188.0	1138.2
35°	845.5	852.2	872.4	904.5	948.7	999.3	1061.3	1109.5	1142.4	1140.0	1109.5
37.5°	681.9	689.5	709.8	736.5	779.4	842.0	902.0	968.5	1029.2	1063.2	1053.0
40°	593.0	593.3	613.0	640.5	680.7	735.3	800.6	874.3	942.0	997.3	1008.0
42.5°	522.7	522.8	535.9	565.5	594.4	645.8	708.2	781.4	860.6	924.4	952.8
45°	432.1	435.1	445.9	463.6	486.4	529.9	579.9	647.9	736.7	812.4	859.6
47.5°	365.9	370.4	377.2	391.7	409.8	438.9	480.1	541.2	613.5	696.7	764.0
50°	331.7	332.3	341.0	349.0	364.8	388.0	424.1	475.0	541.4	621.4	696.1
52.5°	302.2	302.0	307.3	317.5	330.3	348.3	377.5	423.9	482.7	554.4	631.5
55°	258.0	259.6	263.6	271.6	281.4	294.1	317.3	352.1	398.3	459.6	529.6
57.5°	224.3	225.2	228.3	231.8	240.6	249.9	267.3	291.4	330.5	380.6	445.9
60°	202.3	202.7	203.7	208.7	215.8	224.5	236.2	256.6	289.5	335.4	386.9
62.5°	180.9	181.5	183.0	186.8	192.2	198.2	210.4	226.9	254.1	293.3	339.8
65°	150.8	151.1	153.4	154.8	159.1	164.5	173.5	184.6	203.4	236.2	271.4
67.5°	126.0	126.0	126.1	127.9	131.0	134.5	139.9	148.8	162.9	183.0	214.0
70°	109.9	109.9	110.6	111.6	113.2	116.2	119.2	126.0	136.4	152.7	176.5
72.5°	94.9	95.1	95.8	96.0	96.9	99.4	101.6	105.8	113.6	126.0	145.2
75°	69.7	70.7	72.3	73.7	75.3	75.1	77.4	80.1	82.4	89.8	100.8
77.5°	51.8	51.3	51.5	52.7	52.9	53.2	54.8	56.9	58.7	62.2	66.1
80°	39.5	39.5	40.6	40.9	40.6	40.9	42.5	43.6	44.3	45.5	49.2
82.5°	29.9	30.4	30.0	30.4	30.7	31.0	32.4	32.5	33.2	33.8	35.3
85°	16.8	17.0	17.4	16.8	16.8	16.8	17.4	17.7	18.4	18.1	18.8
87.5°	11.9	11.5	11.7	11.6	11.8	11.4	11.4	11.6	10.8	10.8	10.5
90°	30.0	29.5	29.1	28.7	28.2	27.4	26.0	24.7	23.3	22.0	20.2
92.5°	27.6	27.6	27.5	27.4	27.3	26.5	25.2	23.8	22.6	21.2	19.5
95°	29.0	28.8	28.6	28.3	28.2	27.4	26.0	24.7	23.3	22.0	21.8
97.5°	28.0	27.8	27.6	27.4	27.1	26.9	26.8	26.7	26.5	26.4	51.2
100°	28.0	27.8	27.6	27.4	27.1	28.9	32.7	36.4	40.2	44.0	74.7
102.5°	28.8	28.8	28.8	28.7	28.7	49.0	89.8	130.5	171.3	212.1	216.1
105°	285.2	293.2	301.1	309.1	317.1	320.1	318.1	316.2	314.2	312.1	311.0
107.5°	397.4	396.5	395.7	394.9	394.0	393.0	392.1	391.2	390.1	389.2	387.6
110°	446.2	445.6	444.9	444.2	443.5	443.0	442.6	442.1	441.6	441.2	439.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	495.0	494.2	493.4	492.5	491.6	491.3	491.4	491.5	491.5	491.6	491.0
115°	566.3	566.3	566.3	566.3	566.3	566.0	565.6	565.2	564.7	564.2	564.5
117.5°	638.7	638.8	638.9	638.9	639.0	639.1	639.2	639.3	639.4	639.5	639.0
120°	684.3	684.8	685.2	685.6	686.0	686.0	685.6	685.2	684.8	684.3	684.5
122.5°	729.1	729.5	730.0	730.5	730.9	731.0	730.7	730.5	730.2	730.0	729.6
125°	796.3	796.2	795.9	795.7	795.5	795.0	794.4	793.7	793.0	792.4	792.8
127.5°	855.4	855.6	855.7	855.9	856.1	856.3	856.4	856.5	856.6	856.8	855.7
130°	895.4	895.4	895.4	895.4	895.4	895.3	895.1	894.8	894.6	894.4	893.7
132.5°	932.2	932.4	932.5	932.7	932.9	932.9	932.7	932.5	932.2	932.0	931.2
135°	987.4	987.0	986.5	986.1	985.7	985.2	984.7	984.3	983.9	983.4	982.6
137.5°	1034.7	1034.7	1034.9	1035.1	1035.2	1035.0	1034.5	1034.1	1033.5	1033.0	1032.1
140°	1067.5	1067.2	1067.0	1066.8	1066.6	1066.2	1065.5	1064.8	1064.1	1063.5	1063.0
142.5°	1094.7	1094.7	1094.6	1094.6	1094.5	1094.2	1093.7	1093.3	1092.8	1092.3	1092.0
145°	1136.5	1136.1	1135.6	1135.1	1134.7	1134.4	1134.2	1133.9	1133.8	1133.5	1133.5
147.5°	1171.1	1170.9	1170.7	1170.4	1170.2	1170.0	1169.8	1169.7	1169.5	1169.3	1169.5
150°	1193.5	1193.3	1193.1	1192.8	1192.7	1192.5	1192.5	1192.5	1192.5	1192.5	1192.7
152.5°	1212.7	1212.9	1213.0	1213.1	1213.2	1213.1	1212.8	1212.5	1212.1	1211.8	1212.1
155°	1238.5	1239.2	1239.8	1240.5	1241.2	1241.1	1240.2	1239.3	1238.5	1237.5	1238.2
157.5°	1260.2	1261.3	1262.5	1263.6	1264.8	1264.8	1263.6	1262.5	1261.3	1260.2	1260.9
160°	1274.5	1275.9	1277.2	1278.6	1279.9	1279.9	1278.6	1277.2	1275.9	1274.5	1274.8
162.5°	1285.7	1287.3	1288.8	1290.3	1291.8	1291.9	1290.6	1289.3	1287.9	1286.6	1286.8
165°	1301.6	1303.6	1305.5	1307.6	1309.6	1309.7	1307.9	1306.1	1304.3	1302.6	1302.6
167.5°	1313.4	1315.6	1317.8	1320.1	1322.2	1322.4	1320.4	1318.5	1316.6	1314.6	1314.7
170°	1320.6	1322.8	1325.0	1327.2	1329.5	1329.7	1327.9	1326.1	1324.4	1322.6	1322.3
172.5°	1324.6	1327.0	1329.4	1331.8	1334.2	1334.5	1332.7	1330.9	1329.1	1327.4	1327.1
175°	1329.6	1332.2	1334.9	1337.6	1340.2	1340.6	1338.6	1336.6	1334.6	1332.6	1332.4
177.5°	1332.8	1334.9	1337.0	1339.2	1341.4	1341.7	1340.2	1338.9	1337.4	1336.0	1335.7
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	856.7	852.9	851.0	846.7	841.6	839.0	836.5	833.1	828.5	823.7	820.2
5°	900.2	892.1	882.0	870.0	859.3	848.9	839.8	830.8	820.4	809.7	799.0
7.5°	944.8	928.9	911.9	892.1	872.9	855.4	839.3	823.9	806.5	790.8	776.6
10°	975.9	954.4	930.7	905.5	880.4	858.6	837.2	817.7	796.3	777.2	761.1
12.5°	1001.1	975.9	947.3	915.9	885.7	859.4	834.7	809.4	785.1	764.3	742.9
15°	1042.8	1008.3	969.8	932.3	893.1	857.3	824.1	794.6	766.8	737.7	717.2
17.5°	1071.6	1030.6	983.9	938.7	892.4	850.2	811.9	776.8	744.7	715.0	690.6
20°	1088.7	1043.5	991.6	940.3	888.4	843.2	802.0	763.1	730.0	697.8	672.7
22.5°	1098.4	1048.4	991.6	937.9	884.2	835.2	790.0	749.5	713.3	681.2	653.4
25°	1101.5	1047.8	989.9	928.2	869.4	817.4	770.5	726.6	686.4	654.3	624.7
27.5°	1097.2	1034.1	974.7	911.5	850.7	795.9	746.7	700.5	660.3	625.8	595.6
30°	1090.7	1023.1	959.4	893.8	832.2	779.5	727.6	683.4	641.5	605.7	575.2
32.5°	1076.9	1009.7	941.2	873.9	811.5	757.3	708.1	663.6	622.5	585.8	553.5
35°	1049.2	981.2	906.8	837.8	776.5	720.2	674.0	631.1	591.9	552.8	518.6
37.5°	1012.8	943.4	869.4	793.8	732.5	679.3	636.9	596.7	558.4	522.6	484.7
40°	978.5	915.2	838.9	763.8	700.9	649.5	610.4	573.9	535.4	499.8	461.9
42.5°	937.0	883.0	805.9	730.6	668.4	619.0	582.5	546.8	511.8	477.3	437.8
45°	867.6	826.8	754.4	682.1	619.4	570.5	537.0	505.5	474.7	441.9	404.7
47.5°	788.2	760.5	698.1	624.0	566.0	522.0	489.7	463.9	437.8	405.0	372.4
50°	733.0	715.2	655.0	587.3	532.0	491.5	458.3	434.1	412.4	380.9	351.7
52.5°	674.0	664.6	613.6	548.9	495.5	455.8	427.5	405.8	383.7	357.6	330.3
55°	584.3	589.3	546.0	490.1	439.9	406.4	380.6	362.5	343.7	321.6	300.5
57.5°	492.4	510.8	481.8	432.7	385.6	354.6	335.2	319.9	304.3	285.9	267.9
60°	437.5	452.9	436.5	393.3	352.1	323.3	305.2	293.4	277.7	261.0	247.2
62.5°	383.9	400.4	390.6	355.8	317.5	292.7	276.8	265.9	254.2	239.5	225.2
65°	316.6	327.3	322.6	298.5	271.4	250.2	235.5	227.5	216.7	206.0	193.3
67.5°	242.5	263.2	260.5	247.6	224.2	207.7	198.0	191.0	181.2	173.2	164.5
70°	199.3	218.4	218.1	207.7	194.9	179.5	172.9	166.9	158.1	150.4	143.4
72.5°	163.2	180.6	183.2	175.3	166.6	154.9	148.4	144.3	135.9	130.6	124.8
75°	114.3	127.0	130.4	130.4	126.3	120.3	114.6	111.9	105.8	101.2	97.8
77.5°	74.9	82.9	88.2	89.4	90.0	88.0	83.3	81.4	76.8	75.1	71.9
80°	53.0	58.3	64.3	66.3	68.0	67.3	65.3	64.0	59.7	57.9	56.7
82.5°	36.6	39.5	44.5	48.9	48.5	50.2	48.5	47.4	44.1	43.5	42.1
85°	19.1	19.5	20.1	23.1	24.8	25.5	25.8	25.1	24.1	24.1	21.8
87.5°	10.2	9.5	9.6	9.3	9.0	9.6	9.9	9.7	9.4	9.0	8.8
90°	18.4	16.7	14.9	12.7	10.3	7.9	5.4	3.0	5.4	7.9	10.3
92.5°	17.7	15.8	14.1	13.2	13.0	12.9	12.7	12.6	12.7	12.9	13.0
95°	21.5	21.4	21.1	24.8	32.4	39.9	47.4	55.0	47.4	39.9	32.4
97.5°	76.0	100.8	125.6	135.7	131.0	126.3	121.6	116.8	121.6	126.3	131.0
100°	105.4	136.0	166.8	180.1	176.1	172.1	168.1	164.1	168.1	172.1	176.1
102.5°	220.1	224.1	228.1	228.6	225.7	222.7	219.8	216.9	219.8	222.7	225.7
105°	309.9	308.8	307.7	306.4	305.1	303.8	302.5	301.1	302.5	303.8	305.1
107.5°	386.2	384.6	383.1	382.0	381.3	380.7	380.0	379.4	380.0	380.7	381.3
110°	438.5	437.2	435.8	434.9	434.2	433.5	432.8	432.2	432.8	433.5	434.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	490.3	489.7	489.1	488.2	487.0	485.8	484.7	483.5	484.7	485.8	487.0
115°	564.7	564.9	565.2	564.9	564.2	563.6	562.9	562.2	562.9	563.6	564.2
117.5°	638.5	638.0	637.5	636.8	635.9	635.1	634.1	633.3	634.1	635.1	635.9
120°	684.8	685.0	685.2	684.8	684.0	683.1	682.2	681.3	682.2	683.1	684.0
122.5°	729.3	729.0	728.7	728.2	727.7	727.2	726.7	726.1	726.7	727.2	727.7
125°	793.2	793.7	794.1	793.9	793.0	792.1	791.3	790.3	791.3	792.1	793.0
127.5°	854.7	853.7	852.6	852.0	851.9	851.6	851.4	851.2	851.4	851.6	851.9
130°	893.0	892.4	891.7	891.3	891.0	890.9	890.6	890.4	890.6	890.9	891.0
132.5°	930.3	929.4	928.7	928.0	927.6	927.2	926.8	926.4	926.8	927.2	927.6
135°	981.6	980.8	979.9	979.6	979.7	980.0	980.2	980.4	980.2	980.0	979.7
137.5°	1031.1	1030.1	1029.2	1028.6	1028.6	1028.5	1028.4	1028.3	1028.4	1028.5	1028.6
140°	1062.6	1062.1	1061.7	1061.3	1060.8	1060.3	1059.9	1059.5	1059.9	1060.3	1060.8
142.5°	1091.7	1091.5	1091.2	1090.7	1089.9	1089.1	1088.3	1087.4	1088.3	1089.1	1089.9
145°	1133.5	1133.5	1133.5	1133.2	1132.5	1131.9	1131.2	1130.5	1131.2	1131.9	1132.5
147.5°	1169.8	1170.0	1170.2	1169.7	1168.5	1167.2	1166.0	1164.7	1166.0	1167.2	1168.5
150°	1193.0	1193.2	1193.4	1193.1	1192.2	1191.3	1190.4	1189.6	1190.4	1191.3	1192.2
152.5°	1212.5	1213.0	1213.3	1213.1	1212.5	1211.8	1211.1	1210.3	1211.1	1211.8	1212.5
155°	1238.9	1239.6	1240.2	1240.4	1240.2	1240.0	1239.8	1239.6	1239.8	1240.0	1240.2
157.5°	1261.7	1262.4	1263.2	1263.6	1263.8	1263.9	1264.0	1264.1	1264.0	1263.9	1263.8
160°	1275.0	1275.2	1275.5	1275.9	1276.6	1277.2	1277.9	1278.6	1277.9	1277.2	1276.6
162.5°	1287.0	1287.2	1287.5	1288.0	1288.8	1289.7	1290.6	1291.3	1290.6	1289.7	1288.8
165°	1302.6	1302.6	1302.6	1303.1	1304.2	1305.4	1306.5	1307.6	1306.5	1305.4	1304.2
167.5°	1314.8	1315.0	1315.1	1315.8	1316.9	1318.1	1319.2	1320.3	1319.2	1318.1	1316.9
170°	1322.2	1321.9	1321.7	1322.2	1323.6	1324.9	1326.3	1327.6	1326.3	1324.9	1323.6
172.5°	1327.0	1326.7	1326.5	1327.1	1328.4	1329.7	1331.0	1332.4	1331.0	1329.7	1328.4
175°	1332.1	1331.9	1331.7	1332.2	1333.6	1334.9	1336.3	1337.6	1336.3	1334.9	1333.6
177.5°	1335.2	1334.9	1334.6	1335.0	1336.3	1337.5	1338.8	1340.0	1338.8	1337.5	1336.3
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	816.5	813.8	810.3	806.2	801.4	797.2	795.3	796.9	797.7	795.6	795.3
5°	791.6	783.3	776.5	766.5	758.5	751.7	747.0	745.0	745.7	740.4	739.0
7.5°	763.6	753.7	742.8	730.8	719.7	709.9	704.7	701.9	696.2	693.8	689.7
10°	745.7	732.3	721.6	707.5	694.8	683.0	677.3	672.7	667.0	664.3	658.6
12.5°	727.2	711.7	699.9	685.3	672.3	658.1	652.7	644.0	635.1	629.5	622.2
15°	701.1	682.4	668.0	650.6	635.2	619.1	604.7	588.6	582.6	569.8	562.5
17.5°	670.6	651.6	633.8	610.4	586.7	566.7	551.3	536.0	526.7	518.6	514.8
20°	650.6	633.2	608.4	581.3	554.7	532.6	520.2	510.2	500.2	494.5	490.4
22.5°	631.5	609.3	580.5	551.2	524.8	507.5	497.0	486.6	478.5	473.0	467.7
25°	599.7	570.5	540.0	506.5	488.4	473.4	461.9	453.6	448.6	441.5	438.9
27.5°	566.9	531.6	497.9	475.4	456.6	442.8	432.9	426.6	420.3	415.7	412.2
30°	541.7	505.8	475.7	454.3	435.1	423.8	415.7	408.4	403.4	399.7	397.0
32.5°	516.8	481.0	455.6	432.6	417.5	406.4	397.8	392.3	388.3	383.6	381.9
35°	480.7	448.9	426.8	406.0	390.6	380.6	373.8	368.2	364.8	363.5	362.5
37.5°	446.1	420.0	396.2	379.2	365.5	357.6	349.7	346.9	344.6	342.2	343.3
40°	424.1	399.7	378.6	360.5	349.4	340.7	336.0	332.7	330.6	330.6	330.6
42.5°	405.1	381.2	360.6	344.4	333.3	326.0	320.7	317.9	317.3	316.9	318.6
45°	375.6	353.4	332.7	319.3	309.9	302.5	299.5	297.1	297.1	298.5	298.9
47.5°	346.3	325.5	308.8	293.9	285.2	280.7	278.0	276.8	277.0	278.3	279.8
50°	328.3	307.9	291.4	278.0	270.0	265.6	263.3	262.6	263.3	263.3	265.6
52.5°	308.8	290.4	274.3	263.0	253.9	249.9	248.6	247.6	248.1	249.1	250.1
55°	280.1	263.6	248.2	237.5	230.8	228.2	225.2	225.5	224.8	225.5	225.5
57.5°	251.3	236.6	222.2	213.7	207.8	204.0	200.7	201.6	200.6	200.4	199.9
60°	232.8	216.7	205.3	197.7	191.0	187.6	184.6	185.3	184.3	183.6	182.3
62.5°	212.8	199.3	188.5	181.1	175.6	171.8	168.8	168.1	165.7	163.5	160.5
65°	183.6	172.5	162.8	155.8	150.8	147.7	145.4	143.4	138.4	133.0	130.4
67.5°	155.2	147.2	138.2	132.2	128.2	124.2	119.8	116.3	111.6	108.7	107.0
70°	137.0	129.3	121.6	115.9	111.6	107.9	102.8	100.5	97.1	95.8	94.1
72.5°	119.6	112.4	105.2	100.1	95.5	92.6	88.7	86.3	84.8	84.3	82.6
75°	93.2	87.5	82.1	77.4	73.7	71.7	70.0	68.4	67.7	64.7	62.9
77.5°	67.9	64.1	60.9	57.5	54.8	53.6	50.3	48.4	47.3	45.8	45.5
80°	53.0	50.3	46.9	44.9	41.2	39.9	38.5	38.2	37.9	37.5	37.2
82.5°	39.8	37.1	33.8	32.5	31.6	30.7	30.0	29.6	29.3	29.4	29.4
85°	20.1	18.8	18.8	18.4	18.1	17.7	17.4	17.4	17.0	17.4	17.0
87.5°	9.3	9.4	9.7	9.6	10.2	10.6	10.6	10.8	11.4	11.1	11.3
90°	12.7	14.9	16.7	18.4	20.2	22.0	23.3	24.7	26.0	27.4	28.2
92.5°	13.2	14.1	15.8	17.7	19.5	21.2	22.6	23.8	25.2	26.5	27.3
95°	24.8	21.1	21.4	21.5	21.8	22.0	23.3	24.7	26.0	27.4	28.2
97.5°	135.7	125.6	100.8	76.0	51.2	26.4	26.5	26.7	26.8	26.9	27.1
100°	180.1	166.8	136.0	105.4	74.7	44.0	40.2	36.4	32.7	28.9	27.1
102.5°	228.6	228.1	224.1	220.1	216.1	212.1	171.3	130.5	89.8	49.0	28.7
105°	306.4	307.7	308.8	309.9	311.0	312.1	314.2	316.2	318.1	320.1	317.1
107.5°	382.0	383.1	384.6	386.2	387.6	389.2	390.1	391.2	392.1	393.0	394.0
110°	434.9	435.8	437.2	438.5	439.9	441.2	441.6	442.1	442.6	443.0	443.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	488.2	489.1	489.7	490.3	491.0	491.6	491.5	491.5	491.4	491.3	491.6
115°	564.9	565.2	564.9	564.7	564.5	564.2	564.7	565.2	565.6	566.0	566.3
117.5°	636.8	637.5	638.0	638.5	639.0	639.5	639.4	639.3	639.2	639.1	639.0
120°	684.8	685.2	685.0	684.8	684.5	684.3	684.8	685.2	685.6	686.0	686.0
122.5°	728.2	728.7	729.0	729.3	729.6	730.0	730.2	730.5	730.7	731.0	730.9
125°	793.9	794.1	793.7	793.2	792.8	792.4	793.0	793.7	794.4	795.0	795.5
127.5°	852.0	852.6	853.7	854.7	855.7	856.8	856.6	856.5	856.4	856.3	856.1
130°	891.3	891.7	892.4	893.0	893.7	894.4	894.6	894.8	895.1	895.3	895.4
132.5°	928.0	928.7	929.4	930.3	931.2	932.0	932.2	932.5	932.7	932.9	932.9
135°	979.6	979.9	980.8	981.6	982.6	983.4	983.9	984.3	984.7	985.2	985.7
137.5°	1028.6	1029.2	1030.1	1031.1	1032.1	1033.0	1033.5	1034.1	1034.5	1035.0	1035.2
140°	1061.3	1061.7	1062.1	1062.6	1063.0	1063.5	1064.1	1064.8	1065.5	1066.2	1066.6
142.5°	1090.7	1091.2	1091.5	1091.7	1092.0	1092.3	1092.8	1093.3	1093.7	1094.2	1094.5
145°	1133.2	1133.5	1133.5	1133.5	1133.5	1133.5	1133.8	1133.9	1134.2	1134.4	1134.7
147.5°	1169.7	1170.2	1170.0	1169.8	1169.5	1169.3	1169.5	1169.7	1169.8	1170.0	1170.2
150°	1193.1	1193.4	1193.2	1193.0	1192.7	1192.5	1192.5	1192.5	1192.5	1192.5	1192.7
152.5°	1213.1	1213.3	1213.0	1212.5	1212.1	1211.8	1212.1	1212.5	1212.8	1213.1	1213.2
155°	1240.4	1240.2	1239.6	1238.9	1238.2	1237.5	1238.5	1239.3	1240.2	1241.1	1241.2
157.5°	1263.6	1263.2	1262.4	1261.7	1260.9	1260.2	1261.3	1262.5	1263.6	1264.8	1264.8
160°	1275.9	1275.5	1275.2	1275.0	1274.8	1274.5	1275.9	1277.2	1278.6	1279.9	1279.9
162.5°	1288.0	1287.5	1287.2	1287.0	1286.8	1286.6	1287.9	1289.3	1290.6	1291.9	1291.8
165°	1303.1	1302.6	1302.6	1302.6	1302.6	1302.6	1304.3	1306.1	1307.9	1309.7	1309.6
167.5°	1315.8	1315.1	1315.0	1314.8	1314.7	1314.6	1316.6	1318.5	1320.4	1322.4	1322.2
170°	1322.2	1321.7	1321.9	1322.2	1322.3	1322.6	1324.4	1326.1	1327.9	1329.7	1329.5
172.5°	1327.1	1326.5	1326.7	1327.0	1327.1	1327.4	1329.1	1330.9	1332.7	1334.5	1334.2
175°	1332.2	1331.7	1331.9	1332.1	1332.4	1332.6	1334.6	1336.6	1338.6	1340.6	1340.2
177.5°	1335.0	1334.6	1334.9	1335.2	1335.7	1336.0	1337.4	1338.9	1340.2	1341.7	1341.4
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	793.7	794.2	792.4	791.8	792.4	794.2	793.7	795.3	795.6	797.7	796.9
5°	736.3	735.6	734.0	734.3	734.0	735.6	736.3	739.0	740.4	745.7	745.0
7.5°	687.3	684.7	685.4	682.7	685.4	684.7	687.3	689.7	693.8	696.2	701.9
10°	657.3	653.6	650.6	647.9	650.6	653.6	657.3	658.6	664.3	667.0	672.7
12.5°	616.3	613.1	609.0	609.8	609.0	613.1	616.3	622.2	629.5	635.1	644.0
15°	558.1	553.1	545.0	546.0	545.0	553.1	558.1	562.5	569.8	582.6	588.6
17.5°	508.9	508.9	505.2	506.1	505.2	508.9	508.9	514.8	518.6	526.7	536.0
20°	483.4	481.0	481.4	480.4	481.4	481.0	483.4	490.4	494.5	500.2	510.2
22.5°	465.7	462.9	460.5	458.4	460.5	462.9	465.7	467.7	473.0	478.5	486.6
25°	435.8	433.9	430.8	430.2	430.8	433.9	435.8	438.9	441.5	448.6	453.6
27.5°	409.6	409.1	407.9	406.4	407.9	409.1	409.6	412.2	415.7	420.3	426.6
30°	394.3	393.6	393.0	391.9	393.0	393.6	394.3	397.0	399.7	403.4	408.4
32.5°	380.6	380.2	379.5	379.6	379.5	380.2	380.6	381.9	383.6	388.3	392.3
35°	361.1	360.8	360.2	359.8	360.2	360.8	361.1	362.5	363.5	364.8	368.2
37.5°	342.9	343.8	343.4	343.3	343.4	343.8	342.9	343.3	342.2	344.6	346.9
40°	330.3	330.6	331.3	331.0	331.3	330.6	330.3	330.6	330.6	330.6	332.7
42.5°	319.9	319.9	320.9	319.7	320.9	319.9	319.9	318.6	316.9	317.3	317.9
45°	301.2	303.2	302.8	302.8	302.8	303.2	301.2	298.9	298.5	297.1	297.1
47.5°	280.7	282.5	282.9	282.8	282.9	282.5	280.7	279.8	278.3	277.0	276.8
50°	267.3	266.7	267.7	267.3	267.7	266.7	267.3	265.6	263.3	263.3	262.6
52.5°	251.0	251.2	251.1	250.7	251.1	251.2	251.0	250.1	249.1	248.1	247.6
55°	225.8	226.1	225.5	225.8	225.5	226.1	225.8	225.5	225.5	224.8	225.5
57.5°	198.5	196.8	197.5	196.7	197.5	196.8	198.5	199.9	200.4	200.6	201.6
60°	178.9	176.2	175.6	174.2	175.6	176.2	178.9	182.3	183.6	184.3	185.3
62.5°	156.9	155.1	152.7	153.9	152.7	155.1	156.9	160.5	163.5	165.7	168.1
65°	127.6	126.3	125.3	126.7	125.3	126.3	127.6	130.4	133.0	138.4	143.4
67.5°	105.6	105.0	105.0	104.3	105.0	105.0	105.6	107.0	108.7	111.6	116.3
70°	94.1	93.2	93.2	92.5	93.2	93.2	94.1	94.1	95.8	97.1	100.5
72.5°	82.3	81.4	81.6	81.2	81.6	81.4	82.3	82.6	84.3	84.8	86.3
75°	61.0	59.3	59.3	59.7	59.3	59.3	61.0	62.9	64.7	67.7	68.4
77.5°	45.5	45.1	45.6	45.0	45.6	45.1	45.5	45.5	45.8	47.3	48.4
80°	37.2	36.9	36.5	37.5	36.5	36.9	37.2	37.2	37.5	37.9	38.2
82.5°	28.8	28.8	28.8	30.0	28.8	28.8	28.8	29.4	29.4	29.3	29.6
85°	17.4	16.8	17.4	16.8	17.4	16.8	17.4	17.0	17.4	17.0	17.4
87.5°	11.9	11.7	11.5	11.9	11.5	11.7	11.9	11.3	11.1	11.4	10.8
90°	28.7	29.1	29.5	30.0	29.5	29.1	28.7	28.2	27.4	26.0	24.7
92.5°	27.4	27.5	27.6	27.6	27.6	27.5	27.4	27.3	26.5	25.2	23.8
95°	28.3	28.6	28.8	29.0	28.8	28.6	28.3	28.2	27.4	26.0	24.7
97.5°	27.4	27.6	27.8	28.0	27.8	27.6	27.4	27.1	26.9	26.8	26.7
100°	27.4	27.6	27.8	28.0	27.8	27.6	27.4	27.1	28.9	32.7	36.4
102.5°	28.7	28.8	28.8	28.8	28.8	28.8	28.7	28.7	49.0	89.8	130.5
105°	309.1	301.1	293.2	285.2	293.2	301.1	309.1	317.1	320.1	318.1	316.2
107.5°	394.9	395.7	396.5	397.4	396.5	395.7	394.9	394.0	393.0	392.1	391.2
110°	444.2	444.9	445.6	446.2	445.6	444.9	444.2	443.5	443.0	442.6	442.1



TEST NUMBER: P332919-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	492.5	493.4	494.2	495.0	494.2	493.4	492.5	491.6	491.3	491.4	491.5
115°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.0	565.6	565.2
117.5°	638.9	638.9	638.8	638.7	638.8	638.9	638.9	639.0	639.1	639.2	639.3
120°	685.6	685.2	684.8	684.3	684.8	685.2	685.6	686.0	686.0	685.6	685.2
122.5°	730.5	730.0	729.5	729.1	729.5	730.0	730.5	730.9	731.0	730.7	730.5
125°	795.7	795.9	796.2	796.3	796.2	795.9	795.7	795.5	795.0	794.4	793.7
127.5°	855.9	855.7	855.6	855.4	855.6	855.7	855.9	856.1	856.3	856.4	856.5
130°	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.3	895.1	894.8
132.5°	932.7	932.5	932.4	932.2	932.4	932.5	932.7	932.9	932.9	932.7	932.5
135°	986.1	986.5	987.0	987.4	987.0	986.5	986.1	985.7	985.2	984.7	984.3
137.5°	1035.1	1034.9	1034.7	1034.7	1034.7	1034.9	1035.1	1035.2	1035.0	1034.5	1034.1
140°	1066.8	1067.0	1067.2	1067.5	1067.2	1067.0	1066.8	1066.6	1066.2	1065.5	1064.8
142.5°	1094.6	1094.6	1094.7	1094.7	1094.7	1094.6	1094.6	1094.5	1094.2	1093.7	1093.3
145°	1135.1	1135.6	1136.1	1136.5	1136.1	1135.6	1135.1	1134.7	1134.4	1134.2	1133.9
147.5°	1170.4	1170.7	1170.9	1171.1	1170.9	1170.7	1170.4	1170.2	1170.0	1169.8	1169.7
150°	1192.8	1193.1	1193.3	1193.5	1193.3	1193.1	1192.8	1192.7	1192.5	1192.5	1192.5
152.5°	1213.1	1213.0	1212.9	1212.7	1212.9	1213.0	1213.1	1213.2	1213.1	1212.8	1212.5
155°	1240.5	1239.8	1239.2	1238.5	1239.2	1239.8	1240.5	1241.2	1241.1	1240.2	1239.3
157.5°	1263.6	1262.5	1261.3	1260.2	1261.3	1262.5	1263.6	1264.8	1264.8	1263.6	1262.5
160°	1278.6	1277.2	1275.9	1274.5	1275.9	1277.2	1278.6	1279.9	1279.9	1278.6	1277.2
162.5°	1290.3	1288.8	1287.3	1285.7	1287.3	1288.8	1290.3	1291.8	1291.9	1290.6	1289.3
165°	1307.6	1305.5	1303.6	1301.6	1303.6	1305.5	1307.6	1309.6	1309.7	1307.9	1306.1
167.5°	1320.1	1317.8	1315.6	1313.4	1315.6	1317.8	1320.1	1322.2	1322.4	1320.4	1318.5
170°	1327.2	1325.0	1322.8	1320.6	1322.8	1325.0	1327.2	1329.5	1329.7	1327.9	1326.1
172.5°	1331.8	1329.4	1327.0	1324.6	1327.0	1329.4	1331.8	1334.2	1334.5	1332.7	1330.9
175°	1337.6	1334.9	1332.2	1329.6	1332.2	1334.9	1337.6	1340.2	1340.6	1338.6	1336.6
177.5°	1339.2	1337.0	1334.9	1332.8	1334.9	1337.0	1339.2	1341.4	1341.7	1340.2	1338.9
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	795.3	797.2	801.4	806.2	810.3	813.8	816.5	820.2	823.7	828.5	833.1
5°	747.0	751.7	758.5	766.5	776.5	783.3	791.6	799.0	809.7	820.4	830.8
7.5°	704.7	709.9	719.7	730.8	742.8	753.7	763.6	776.6	790.8	806.5	823.9
10°	677.3	683.0	694.8	707.5	721.6	732.3	745.7	761.1	777.2	796.3	817.7
12.5°	652.7	658.1	672.3	685.3	699.9	711.7	727.2	742.9	764.3	785.1	809.4
15°	604.7	619.1	635.2	650.6	668.0	682.4	701.1	717.2	737.7	766.8	794.6
17.5°	551.3	566.7	586.7	610.4	633.8	651.6	670.6	690.6	715.0	744.7	776.8
20°	520.2	532.6	554.7	581.3	608.4	633.2	650.6	672.7	697.8	730.0	763.1
22.5°	497.0	507.5	524.8	551.2	580.5	609.3	631.5	653.4	681.2	713.3	749.5
25°	461.9	473.4	488.4	506.5	540.0	570.5	599.7	624.7	654.3	686.4	726.6
27.5°	432.9	442.8	456.6	475.4	497.9	531.6	566.9	595.6	625.8	660.3	700.5
30°	415.7	423.8	435.1	454.3	475.7	505.8	541.7	575.2	605.7	641.5	683.4
32.5°	397.8	406.4	417.5	432.6	455.6	481.0	516.8	553.5	585.8	622.5	663.6
35°	373.8	380.6	390.6	406.0	426.8	448.9	480.7	518.6	552.8	591.9	631.1
37.5°	349.7	357.6	365.5	379.2	396.2	420.0	446.1	484.7	522.6	558.4	596.7
40°	336.0	340.7	349.4	360.5	378.6	399.7	424.1	461.9	499.8	535.4	573.9
42.5°	320.7	326.0	333.3	344.4	360.6	381.2	405.1	437.8	477.3	511.8	546.8
45°	299.5	302.5	309.9	319.3	332.7	353.4	375.6	404.7	441.9	474.7	505.5
47.5°	278.0	280.7	285.2	293.9	308.8	325.5	346.3	372.4	405.0	437.8	463.9
50°	263.3	265.6	270.0	278.0	291.4	307.9	328.3	351.7	380.9	412.4	434.1
52.5°	248.6	249.9	253.9	263.0	274.3	290.4	308.8	330.3	357.6	383.7	405.8
55°	225.2	228.2	230.8	237.5	248.2	263.6	280.1	300.5	321.6	343.7	362.5
57.5°	200.7	204.0	207.8	213.7	222.2	236.6	251.3	267.9	285.9	304.3	319.9
60°	184.6	187.6	191.0	197.7	205.3	216.7	232.8	247.2	261.0	277.7	293.4
62.5°	168.8	171.8	175.6	181.1	188.5	199.3	212.8	225.2	239.5	254.2	265.9
65°	145.4	147.7	150.8	155.8	162.8	172.5	183.6	193.3	206.0	216.7	227.5
67.5°	119.8	124.2	128.2	132.2	138.2	147.2	155.2	164.5	173.2	181.2	191.0
70°	102.8	107.9	111.6	115.9	121.6	129.3	137.0	143.4	150.4	158.1	166.9
72.5°	88.7	92.6	95.5	100.1	105.2	112.4	119.6	124.8	130.6	135.9	144.3
75°	70.0	71.7	73.7	77.4	82.1	87.5	93.2	97.8	101.2	105.8	111.9
77.5°	50.3	53.6	54.8	57.5	60.9	64.1	67.9	71.9	75.1	76.8	81.4
80°	38.5	39.9	41.2	44.9	46.9	50.3	53.0	56.7	57.9	59.7	64.0
82.5°	30.0	30.7	31.6	32.5	33.8	37.1	39.8	42.1	43.5	44.1	47.4
85°	17.4	17.7	18.1	18.4	18.8	18.8	20.1	21.8	24.1	24.1	25.1
87.5°	10.6	10.6	10.2	9.6	9.7	9.4	9.3	8.8	9.0	9.4	9.7
90°	23.3	22.0	20.2	18.4	16.7	14.9	12.7	10.3	7.9	5.4	3.0
92.5°	22.6	21.2	19.5	17.7	15.8	14.1	13.2	13.0	12.9	12.7	12.6
95°	23.3	22.0	21.8	21.5	21.4	21.1	24.8	32.4	39.9	47.4	55.0
97.5°	26.5	26.4	51.2	76.0	100.8	125.6	135.7	131.0	126.3	121.6	116.8
100°	40.2	44.0	74.7	105.4	136.0	166.8	180.1	176.1	172.1	168.1	164.1
102.5°	171.3	212.1	216.1	220.1	224.1	228.1	228.6	225.7	222.7	219.8	216.9
105°	314.2	312.1	311.0	309.9	308.8	307.7	306.4	305.1	303.8	302.5	301.1
107.5°	390.1	389.2	387.6	386.2	384.6	383.1	382.0	381.3	380.7	380.0	379.4
110°	441.6	441.2	439.9	438.5	437.2	435.8	434.9	434.2	433.5	432.8	432.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	491.5	491.6	491.0	490.3	489.7	489.1	488.2	487.0	485.8	484.7	483.5
115°	564.7	564.2	564.5	564.7	564.9	565.2	564.9	564.2	563.6	562.9	562.2
117.5°	639.4	639.5	639.0	638.5	638.0	637.5	636.8	635.9	635.1	634.1	633.3
120°	684.8	684.3	684.5	684.8	685.0	685.2	684.8	684.0	683.1	682.2	681.3
122.5°	730.2	730.0	729.6	729.3	729.0	728.7	728.2	727.7	727.2	726.7	726.1
125°	793.0	792.4	792.8	793.2	793.7	794.1	793.9	793.0	792.1	791.3	790.3
127.5°	856.6	856.8	855.7	854.7	853.7	852.6	852.0	851.9	851.6	851.4	851.2
130°	894.6	894.4	893.7	893.0	892.4	891.7	891.3	891.0	890.9	890.6	890.4
132.5°	932.2	932.0	931.2	930.3	929.4	928.7	928.0	927.6	927.2	926.8	926.4
135°	983.9	983.4	982.6	981.6	980.8	979.9	979.6	979.7	980.0	980.2	980.4
137.5°	1033.5	1033.0	1032.1	1031.1	1030.1	1029.2	1028.6	1028.6	1028.5	1028.4	1028.3
140°	1064.1	1063.5	1063.0	1062.6	1062.1	1061.7	1061.3	1060.8	1060.3	1059.9	1059.5
142.5°	1092.8	1092.3	1092.0	1091.7	1091.5	1091.2	1090.7	1089.9	1089.1	1088.3	1087.4
145°	1133.8	1133.5	1133.5	1133.5	1133.5	1133.5	1133.2	1132.5	1131.9	1131.2	1130.5
147.5°	1169.5	1169.3	1169.5	1169.8	1170.0	1170.2	1169.7	1168.5	1167.2	1166.0	1164.7
150°	1192.5	1192.5	1192.7	1193.0	1193.2	1193.4	1193.1	1192.2	1191.3	1190.4	1189.6
152.5°	1212.1	1211.8	1212.1	1212.5	1213.0	1213.3	1213.1	1212.5	1211.8	1211.1	1210.3
155°	1238.5	1237.5	1238.2	1238.9	1239.6	1240.2	1240.4	1240.2	1240.0	1239.8	1239.6
157.5°	1261.3	1260.2	1260.9	1261.7	1262.4	1263.2	1263.6	1263.8	1263.9	1264.0	1264.1
160°	1275.9	1274.5	1274.8	1275.0	1275.2	1275.5	1275.9	1276.6	1277.2	1277.9	1278.6
162.5°	1287.9	1286.6	1286.8	1287.0	1287.2	1287.5	1288.0	1288.8	1289.7	1290.6	1291.3
165°	1304.3	1302.6	1302.6	1302.6	1302.6	1302.6	1303.1	1304.2	1305.4	1306.5	1307.6
167.5°	1316.6	1314.6	1314.7	1314.8	1315.0	1315.1	1315.8	1316.9	1318.1	1319.2	1320.3
170°	1324.4	1322.6	1322.3	1322.2	1321.9	1321.7	1322.2	1323.6	1324.9	1326.3	1327.6
172.5°	1329.1	1327.4	1327.1	1327.0	1326.7	1326.5	1327.1	1328.4	1329.7	1331.0	1332.4
175°	1334.6	1332.6	1332.4	1332.1	1331.9	1331.7	1332.2	1333.6	1334.9	1336.3	1337.6
177.5°	1337.4	1336.0	1335.7	1335.2	1334.9	1334.6	1335.0	1336.3	1337.5	1338.8	1340.0
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	836.5	839.0	841.6	846.7	851.0	852.9	856.7	859.4	858.5	862.3	868.7
5°	839.8	848.9	859.3	870.0	882.0	892.1	900.2	908.2	914.6	922.2	933.7
7.5°	839.3	855.4	872.9	892.1	911.9	928.9	944.8	960.9	975.1	990.8	1011.2
10°	837.2	858.6	880.4	905.5	930.7	954.4	975.9	995.9	1015.0	1035.4	1061.3
12.5°	834.7	859.4	885.7	915.9	947.3	975.9	1001.1	1030.0	1053.9	1080.2	1110.1
15°	824.1	857.3	893.1	932.3	969.8	1008.3	1042.8	1078.4	1111.6	1143.0	1180.5
17.5°	811.9	850.2	892.4	938.7	983.9	1030.6	1071.6	1116.4	1150.2	1192.5	1227.4
20°	802.0	843.2	888.4	940.3	991.6	1043.5	1088.7	1134.3	1172.5	1215.0	1259.3
22.5°	790.0	835.2	884.2	937.9	991.6	1048.4	1098.4	1143.7	1191.0	1238.9	1284.4
25°	770.5	817.4	869.4	928.2	989.9	1047.8	1101.5	1157.8	1208.7	1260.6	1301.5
27.5°	746.7	795.9	850.7	911.5	974.7	1034.1	1097.2	1157.2	1208.4	1258.4	1294.0
30°	727.6	779.5	832.2	893.8	959.4	1023.1	1090.7	1150.7	1204.6	1249.6	1269.6
32.5°	708.1	757.3	811.5	873.9	941.2	1009.7	1076.9	1138.2	1188.0	1215.0	1215.5
35°	674.0	720.2	776.5	837.8	906.8	981.2	1049.2	1109.5	1140.0	1142.4	1109.5
37.5°	636.9	679.3	732.5	793.8	869.4	943.4	1012.8	1053.0	1063.2	1029.2	968.5
40°	610.4	649.5	700.9	763.8	838.9	915.2	978.5	1008.0	997.3	942.0	874.3
42.5°	582.5	619.0	668.4	730.6	805.9	883.0	937.0	952.8	924.4	860.6	781.4
45°	537.0	570.5	619.4	682.1	754.4	826.8	867.6	859.6	812.4	736.7	647.9
47.5°	489.7	522.0	566.0	624.0	698.1	760.5	788.2	764.0	696.7	613.5	541.2
50°	458.3	491.5	532.0	587.3	655.0	715.2	733.0	696.1	621.4	541.4	475.0
52.5°	427.5	455.8	495.5	548.9	613.6	664.6	674.0	631.5	554.4	482.7	423.9
55°	380.6	406.4	439.9	490.1	546.0	589.3	584.3	529.6	459.6	398.3	352.1
57.5°	335.2	354.6	385.6	432.7	481.8	510.8	492.4	445.9	380.6	330.5	291.4
60°	305.2	323.3	352.1	393.3	436.5	452.9	437.5	386.9	335.4	289.5	256.6
62.5°	276.8	292.7	317.5	355.8	390.6	400.4	383.9	339.8	293.3	254.1	226.9
65°	235.5	250.2	271.4	298.5	322.6	327.3	316.6	271.4	236.2	203.4	184.6
67.5°	198.0	207.7	224.2	247.6	260.5	263.2	242.5	214.0	183.0	162.9	148.8
70°	172.9	179.5	194.9	207.7	218.1	218.4	199.3	176.5	152.7	136.4	126.0
72.5°	148.4	154.9	166.6	175.3	183.2	180.6	163.2	145.2	126.0	113.6	105.8
75°	114.6	120.3	126.3	130.4	130.4	127.0	114.3	100.8	89.8	82.4	80.1
77.5°	83.3	88.0	90.0	89.4	88.2	82.9	74.9	66.1	62.2	58.7	56.9
80°	65.3	67.3	68.0	66.3	64.3	58.3	53.0	49.2	45.5	44.3	43.6
82.5°	48.5	50.2	48.5	48.9	44.5	39.5	36.6	35.3	33.8	33.2	32.5
85°	25.8	25.5	24.8	23.1	20.1	19.5	19.1	18.8	18.1	18.4	17.7
87.5°	9.9	9.6	9.0	9.3	9.6	9.5	10.2	10.5	10.8	10.8	11.6
90°	5.4	7.9	10.3	12.7	14.9	16.7	18.4	20.2	22.0	23.3	24.7
92.5°	12.7	12.9	13.0	13.2	14.1	15.8	17.7	19.5	21.2	22.6	23.8
95°	47.4	39.9	32.4	24.8	21.1	21.4	21.5	21.8	22.0	23.3	24.7
97.5°	121.6	126.3	131.0	135.7	125.6	100.8	76.0	51.2	26.4	26.5	26.7
100°	168.1	172.1	176.1	180.1	166.8	136.0	105.4	74.7	44.0	40.2	36.4
102.5°	219.8	222.7	225.7	228.6	228.1	224.1	220.1	216.1	212.1	171.3	130.5
105°	302.5	303.8	305.1	306.4	307.7	308.8	309.9	311.0	312.1	314.2	316.2
107.5°	380.0	380.7	381.3	382.0	383.1	384.6	386.2	387.6	389.2	390.1	391.2
110°	432.8	433.5	434.2	434.9	435.8	437.2	438.5	439.9	441.2	441.6	442.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.7	485.8	487.0	488.2	489.1	489.7	490.3	491.0	491.6	491.5	491.5
115°	562.9	563.6	564.2	564.9	565.2	564.9	564.7	564.5	564.2	564.7	565.2
117.5°	634.1	635.1	635.9	636.8	637.5	638.0	638.5	639.0	639.5	639.4	639.3
120°	682.2	683.1	684.0	684.8	685.2	685.0	684.8	684.5	684.3	684.8	685.2
122.5°	726.7	727.2	727.7	728.2	728.7	729.0	729.3	729.6	730.0	730.2	730.5
125°	791.3	792.1	793.0	793.9	794.1	793.7	793.2	792.8	792.4	793.0	793.7
127.5°	851.4	851.6	851.9	852.0	852.6	853.7	854.7	855.7	856.8	856.6	856.5
130°	890.6	890.9	891.0	891.3	891.7	892.4	893.0	893.7	894.4	894.6	894.8
132.5°	926.8	927.2	927.6	928.0	928.7	929.4	930.3	931.2	932.0	932.2	932.5
135°	980.2	980.0	979.7	979.6	979.9	980.8	981.6	982.6	983.4	983.9	984.3
137.5°	1028.4	1028.5	1028.6	1028.6	1029.2	1030.1	1031.1	1032.1	1033.0	1033.5	1034.1
140°	1059.9	1060.3	1060.8	1061.3	1061.7	1062.1	1062.6	1063.0	1063.5	1064.1	1064.8
142.5°	1088.3	1089.1	1089.9	1090.7	1091.2	1091.5	1091.7	1092.0	1092.3	1092.8	1093.3
145°	1131.2	1131.9	1132.5	1133.2	1133.5	1133.5	1133.5	1133.5	1133.5	1133.8	1133.9
147.5°	1166.0	1167.2	1168.5	1169.7	1170.2	1170.0	1169.8	1169.5	1169.3	1169.5	1169.7
150°	1190.4	1191.3	1192.2	1193.1	1193.4	1193.2	1193.0	1192.7	1192.5	1192.5	1192.5
152.5°	1211.1	1211.8	1212.5	1213.1	1213.3	1213.0	1212.5	1212.1	1211.8	1212.1	1212.5
155°	1239.8	1240.0	1240.2	1240.4	1240.2	1239.6	1238.9	1238.2	1237.5	1238.5	1239.3
157.5°	1264.0	1263.9	1263.8	1263.6	1263.2	1262.4	1261.7	1260.9	1260.2	1261.3	1262.5
160°	1277.9	1277.2	1276.6	1275.9	1275.5	1275.2	1275.0	1274.8	1274.5	1275.9	1277.2
162.5°	1290.6	1289.7	1288.8	1288.0	1287.5	1287.2	1287.0	1286.8	1286.6	1287.9	1289.3
165°	1306.5	1305.4	1304.2	1303.1	1302.6	1302.6	1302.6	1302.6	1302.6	1304.3	1306.1
167.5°	1319.2	1318.1	1316.9	1315.8	1315.1	1315.0	1314.8	1314.7	1314.6	1316.6	1318.5
170°	1326.3	1324.9	1323.6	1322.2	1321.7	1321.9	1322.2	1322.3	1322.6	1324.4	1326.1
172.5°	1331.0	1329.7	1328.4	1327.1	1326.5	1326.7	1327.0	1327.1	1327.4	1329.1	1330.9
175°	1336.3	1334.9	1333.6	1332.2	1331.7	1331.9	1332.1	1332.4	1332.6	1334.6	1336.6
177.5°	1338.8	1337.5	1336.3	1335.0	1334.6	1334.9	1335.2	1335.7	1336.0	1337.4	1338.9
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	872.2	873.3	874.1	876.8	877.0	879.4	877.0
5°	944.3	949.1	956.4	963.8	964.5	969.1	960.8
7.5°	1025.3	1036.1	1042.9	1054.8	1059.5	1062.5	1057.7
10°	1081.1	1091.1	1108.9	1117.6	1126.3	1127.6	1123.6
12.5°	1134.9	1150.8	1164.8	1181.4	1180.9	1192.7	1188.4
15°	1206.7	1223.1	1242.5	1260.9	1267.7	1267.7	1273.0
17.5°	1257.8	1288.0	1308.0	1322.5	1338.3	1341.1	1339.2
20°	1292.4	1324.9	1346.3	1365.1	1375.9	1378.9	1378.9
22.5°	1318.2	1345.8	1366.8	1383.6	1392.5	1396.0	1394.9
25°	1336.0	1359.8	1372.5	1377.5	1379.8	1379.1	1372.9
27.5°	1311.6	1310.5	1302.4	1287.0	1275.5	1268.4	1260.4
30°	1265.0	1247.5	1227.4	1205.3	1176.8	1155.0	1148.4
32.5°	1195.6	1156.4	1122.4	1085.5	1054.9	1033.1	1024.0
35°	1061.3	999.3	948.7	904.5	872.4	852.2	845.5
37.5°	902.0	842.0	779.4	736.5	709.8	689.5	681.9
40°	800.6	735.3	680.7	640.5	613.0	593.3	593.0
42.5°	708.2	645.8	594.4	565.5	535.9	522.8	522.7
45°	579.9	529.9	486.4	463.6	445.9	435.1	432.1
47.5°	480.1	438.9	409.8	391.7	377.2	370.4	365.9
50°	424.1	388.0	364.8	349.0	341.0	332.3	331.7
52.5°	377.5	348.3	330.3	317.5	307.3	302.0	302.2
55°	317.3	294.1	281.4	271.6	263.6	259.6	258.0
57.5°	267.3	249.9	240.6	231.8	228.3	225.2	224.3
60°	236.2	224.5	215.8	208.7	203.7	202.7	202.3
62.5°	210.4	198.2	192.2	186.8	183.0	181.5	180.9
65°	173.5	164.5	159.1	154.8	153.4	151.1	150.8
67.5°	139.9	134.5	131.0	127.9	126.1	126.0	126.0
70°	119.2	116.2	113.2	111.6	110.6	109.9	109.9
72.5°	101.6	99.4	96.9	96.0	95.8	95.1	94.9
75°	77.4	75.1	75.3	73.7	72.3	70.7	69.7
77.5°	54.8	53.2	52.9	52.7	51.5	51.3	51.8
80°	42.5	40.9	40.6	40.9	40.6	39.5	39.5
82.5°	32.4	31.0	30.7	30.4	30.0	30.4	29.9
85°	17.4	16.8	16.8	16.8	17.4	17.0	16.8
87.5°	11.4	11.4	11.8	11.6	11.7	11.5	11.9
90°	26.0	27.4	28.2	28.7	29.1	29.5	30.0
92.5°	25.2	26.5	27.3	27.4	27.5	27.6	27.6
95°	26.0	27.4	28.2	28.3	28.6	28.8	29.0
97.5°	26.8	26.9	27.1	27.4	27.6	27.8	28.0
100°	32.7	28.9	27.1	27.4	27.6	27.8	28.0
102.5°	89.8	49.0	28.7	28.7	28.8	28.8	28.8
105°	318.1	320.1	317.1	309.1	301.1	293.2	285.2
107.5°	392.1	393.0	394.0	394.9	395.7	396.5	397.4
110°	442.6	443.0	443.5	444.2	444.9	445.6	446.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	491.4	491.3	491.6	492.5	493.4	494.2	495.0
115°	565.6	566.0	566.3	566.3	566.3	566.3	566.3
117.5°	639.2	639.1	639.0	638.9	638.9	638.8	638.7
120°	685.6	686.0	686.0	685.6	685.2	684.8	684.3
122.5°	730.7	731.0	730.9	730.5	730.0	729.5	729.1
125°	794.4	795.0	795.5	795.7	795.9	796.2	796.3
127.5°	856.4	856.3	856.1	855.9	855.7	855.6	855.4
130°	895.1	895.3	895.4	895.4	895.4	895.4	895.4
132.5°	932.7	932.9	932.9	932.7	932.5	932.4	932.2
135°	984.7	985.2	985.7	986.1	986.5	987.0	987.4
137.5°	1034.5	1035.0	1035.2	1035.1	1034.9	1034.7	1034.7
140°	1065.5	1066.2	1066.6	1066.8	1067.0	1067.2	1067.5
142.5°	1093.7	1094.2	1094.5	1094.6	1094.6	1094.7	1094.7
145°	1134.2	1134.4	1134.7	1135.1	1135.6	1136.1	1136.5
147.5°	1169.8	1170.0	1170.2	1170.4	1170.7	1170.9	1171.1
150°	1192.5	1192.5	1192.7	1192.8	1193.1	1193.3	1193.5
152.5°	1212.8	1213.1	1213.2	1213.1	1213.0	1212.9	1212.7
155°	1240.2	1241.1	1241.2	1240.5	1239.8	1239.2	1238.5
157.5°	1263.6	1264.8	1264.8	1263.6	1262.5	1261.3	1260.2
160°	1278.6	1279.9	1279.9	1278.6	1277.2	1275.9	1274.5
162.5°	1290.6	1291.9	1291.8	1290.3	1288.8	1287.3	1285.7
165°	1307.9	1309.7	1309.6	1307.6	1305.5	1303.6	1301.6
167.5°	1320.4	1322.4	1322.2	1320.1	1317.8	1315.6	1313.4
170°	1327.9	1329.7	1329.5	1327.2	1325.0	1322.8	1320.6
172.5°	1332.7	1334.5	1334.2	1331.8	1329.4	1327.0	1324.6
175°	1338.6	1340.6	1340.2	1337.6	1334.9	1332.2	1329.6
177.5°	1340.2	1341.7	1341.4	1339.2	1337.0	1334.9	1332.8
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6

(END OF REPORT)