

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: P332294-935

Luminaire Tested: **S123RDIP-S560D1195U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332294-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D1195U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6027.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

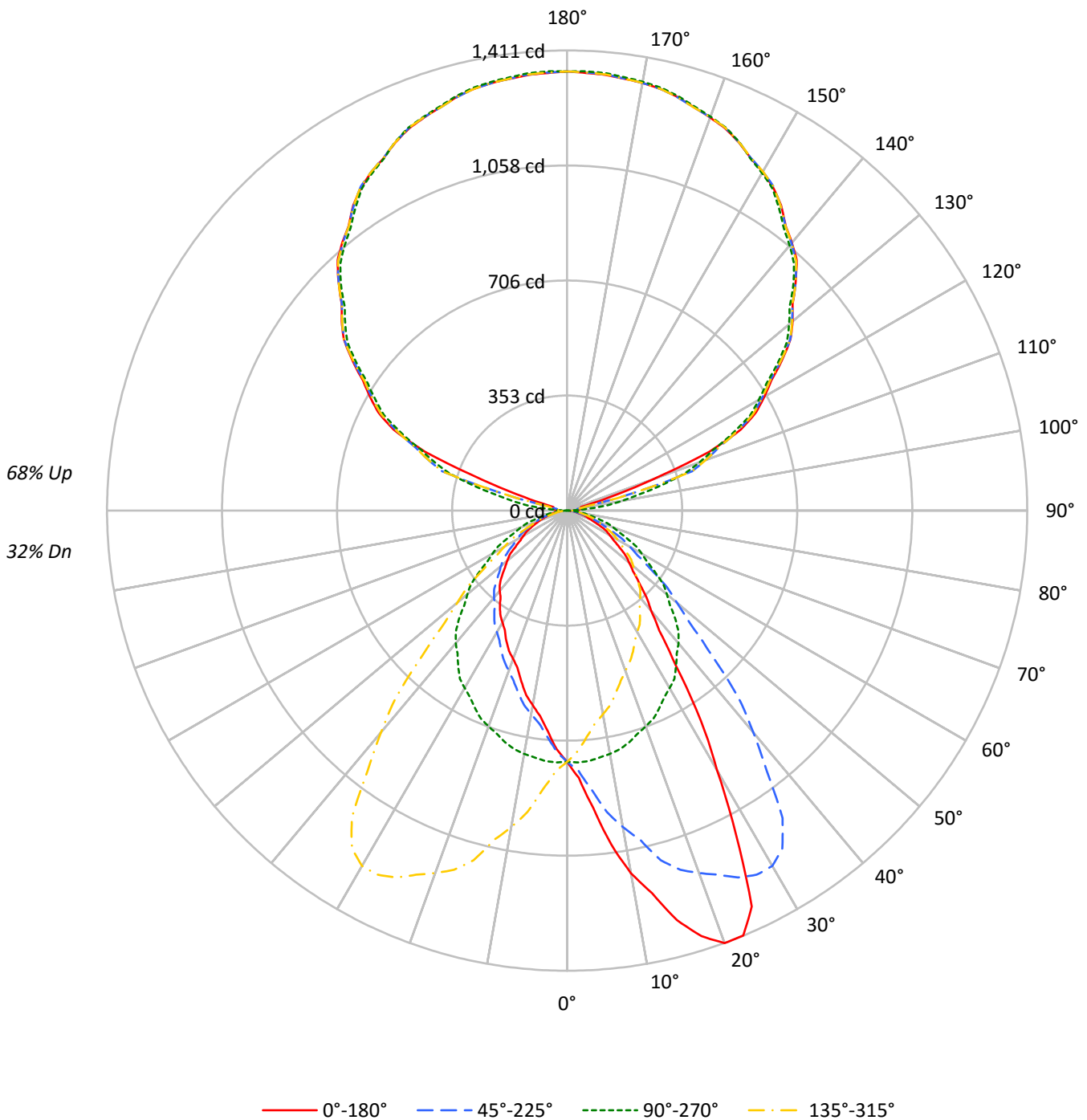
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39	32																												
1	94	90	86	83	85	81	78	75	65	63	61	49	48	47	35	35	34	28																												
2	86	79	73	68	77	71	67	62	57	54	51	44	42	40	32	30	29	24																												
3	79	70	63	57	71	63	57	53	51	46	43	39	36	34	28	27	25	21																												
4	72	62	54	49	65	56	50	45	45	41	37	35	32	29	26	24	22	18																												
5	66	55	47	42	59	50	43	38	40	36	32	31	28	26	23	21	19	16																												
6	61	49	42	36	55	45	38	33	36	32	28	29	25	23	21	19	17	14																												
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	19	17	15	13																												
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	11																												
9	49	37	30	25	44	34	27	23	28	23	20	22	18	16	16	14	13	10																												
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11	9																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8291	8291	8291	8291
5°	9884	8327	7333	8327
10°	12342	8279	6625	8279
15°	14487	8195	6042	8195
20°	16167	8069	5545	8069
25°	15909	7935	5241	7935
30°	11436	7812	4927	7812
35°	7636	7653	4724	7653
40°	5626	7461	4513	7461
45°	4719	7124	4306	7124
50°	4165	6683	4019	6683
55°	3652	6178	3626	6178
60°	3251	5694	3324	5694
65°	2855	5173	3092	5173
70°	2241	4711	2823	4711
75°	1975	4113	2578	4113
80°	1717	3496	2535	3496
85°	1383	2803	2692	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	1.3
10°-20°	236.7	3.9
20°-30°	371.8	6.2
30°-40°	387.9	6.4
40°-50°	332.0	5.5
50°-60°	253.0	4.2
60°-70°	162.2	2.7
70°-80°	78.0	1.3
80°-90°	24.4	0.4
90°-100°	48.9	0.8
100°-110°	233.3	3.9
110°-120°	560.4	9.3
120°-130°	713.6	11.8
130°-140°	762.5	12.6
140°-150°	713.0	11.8
150°-160°	575.1	9.5
160°-170°	371.2	6.2
170°-180°	127.9	2.1
0°-30°	684.3	11.4
0°-40°	1072.2	17.8
0°-60°	1657.2	27.5
0°-90°	1921.8	31.9
90°-120°	842.6	14.0
90°-150°	3031.7	50.3
90°-180°	4106.0	68.1
0°-180°	6027.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	915	771	679	771	915	94
15°	1300	735	542	735	1300	369
25°	1340	668	441	668	1340	576
35°	581	582	360	582	581	381
45°	310	468	283	468	310	244
55°	195	329	193	329	195	176
65°	112	203	121	203	112	110
75°	48	99	62	99	48	51
85°	11	23	22	23	11	14
90°	30	1	30	1	30	14
95°	38	61	38	61	38	32
105°	44	298	44	298	44	101
115°	588	559	588	559	588	543
125°	804	788	804	788	804	718
135°	991	981	991	981	991	764
145°	1143	1132	1143	1132	1143	714
155°	1245	1247	1245	1247	1245	574
165°	1312	1315	1312	1315	1312	371
175°	1341	1346	1341	1346	1341	128
180°	1346	1346	1346	1346	1346	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	820.4	821.6	818.1	817.6	813.6	812.6	812.6	807.0	803.6	799.1	796.5
5°	914.8	920.1	917.5	911.5	901.6	899.3	893.0	883.1	871.9	858.1	851.5
7.5°	1032.6	1039.8	1037.0	1027.9	1017.5	1009.1	991.4	975.0	952.0	931.9	914.6
10°	1129.2	1121.5	1115.7	1106.7	1097.2	1081.7	1063.2	1037.8	1008.5	985.4	959.7
12.5°	1201.4	1200.2	1192.7	1183.5	1170.0	1155.3	1132.6	1101.6	1067.6	1034.1	1004.8
15°	1300.0	1302.0	1297.0	1287.5	1268.3	1242.3	1208.0	1195.2	1146.3	1110.0	1073.8
17.5°	1368.2	1367.8	1367.1	1353.8	1334.4	1315.8	1284.0	1250.2	1206.0	1154.9	1106.0
20°	1411.4	1408.2	1408.9	1394.0	1379.5	1358.1	1327.1	1277.9	1241.6	1182.6	1132.1
22.5°	1410.4	1409.7	1412.2	1407.1	1396.6	1380.2	1355.8	1314.3	1268.0	1208.4	1151.7
25°	1339.5	1337.0	1352.5	1356.7	1373.6	1376.5	1369.2	1346.5	1302.6	1241.3	1171.0
27.5°	1121.1	1119.6	1148.4	1184.4	1230.1	1265.6	1299.9	1316.4	1302.6	1258.7	1188.4
30°	920.1	951.1	965.6	1017.7	1075.7	1145.0	1205.7	1263.3	1277.6	1258.4	1200.8
32.5°	763.9	790.9	803.1	847.8	901.9	983.0	1074.0	1155.7	1213.5	1228.1	1193.3
35°	581.1	581.4	609.1	628.9	679.0	762.4	850.8	960.3	1069.1	1151.6	1160.2
37.5°	463.6	465.3	482.1	501.8	539.4	583.5	661.3	752.3	878.0	1004.6	1078.8
40°	400.4	403.3	415.9	435.3	462.4	495.7	556.4	642.0	746.9	887.8	1002.9
42.5°	359.7	364.5	371.0	386.0	402.7	433.9	483.0	549.2	644.5	777.7	910.5
45°	310.0	312.6	317.5	324.5	339.7	361.4	394.4	438.9	518.1	625.3	758.2
47.5°	273.5	272.1	277.2	282.9	293.0	307.8	329.9	366.3	422.8	508.7	621.5
50°	248.7	248.3	251.9	256.2	265.8	276.7	294.8	322.2	367.0	438.2	541.5
52.5°	225.4	226.7	229.3	234.6	241.5	250.3	266.6	286.3	324.9	386.3	472.3
55°	194.6	195.5	199.1	202.2	207.1	216.0	226.3	242.7	269.1	311.9	382.9
57.5°	168.4	168.0	171.5	172.2	177.8	185.0	193.0	205.8	224.9	256.8	304.5
60°	151.0	150.1	153.0	155.3	158.3	164.2	170.8	183.4	198.5	222.0	262.9
62.5°	135.2	134.7	136.9	139.2	141.6	147.1	152.7	162.2	174.3	194.0	226.4
65°	112.1	113.1	114.1	115.1	116.4	119.7	125.0	131.6	139.8	153.7	177.1
67.5°	88.1	89.1	89.5	91.4	94.3	96.3	99.6	105.5	111.2	122.9	136.2
70°	71.2	70.9	71.2	72.2	75.9	79.5	83.8	88.1	91.7	100.0	111.2
72.5°	61.2	60.6	61.5	61.6	63.5	64.4	67.2	71.2	75.9	81.5	89.5
75°	47.5	47.5	47.5	47.5	48.8	49.5	50.5	51.5	53.1	55.7	61.6
77.5°	35.1	35.1	35.6	35.9	36.2	36.6	37.2	38.2	38.7	40.2	42.7
80°	27.7	28.1	27.7	28.1	28.1	28.7	29.0	30.0	30.3	32.0	33.0
82.5°	20.8	20.7	20.8	21.2	21.2	21.9	21.9	22.6	22.7	23.5	24.5
85°	11.2	10.6	11.2	10.8	11.5	10.8	11.2	11.9	11.9	12.2	13.5
87.5°	8.6	9.0	8.4	8.6	8.5	8.7	8.5	8.4	8.7	8.3	7.9
90°	30.0	29.5	29.1	28.7	28.2	27.6	26.7	25.7	24.9	24.0	21.1
92.5°	33.2	33.0	32.7	32.4	32.1	31.3	29.9	28.4	27.0	25.6	23.4
95°	38.0	38.0	38.0	38.0	38.0	37.2	35.6	34.1	32.5	31.0	28.6
97.5°	41.2	41.0	40.8	40.6	40.3	39.3	37.5	35.7	34.0	32.2	48.2
100°	42.0	41.8	41.6	41.3	41.2	40.1	38.3	36.6	34.8	33.0	67.7
102.5°	42.8	42.4	42.0	41.6	41.2	43.7	49.2	54.8	60.3	65.8	103.7
105°	44.0	43.6	43.1	42.7	42.3	61.6	101.0	140.3	179.7	219.0	239.1
107.5°	138.3	167.9	197.5	227.2	256.8	286.1	315.0	343.8	372.6	401.6	398.4
110°	275.1	306.9	338.6	370.5	402.3	421.8	429.1	436.4	443.8	451.2	448.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	471.9	478.6	485.3	492.1	498.8	502.1	502.0	501.8	501.7	501.5	499.1
115°	588.1	587.3	586.4	585.5	584.6	583.1	580.8	578.6	576.4	574.2	572.2
117.5°	653.4	653.2	653.1	652.9	652.7	651.7	650.0	648.2	646.4	644.6	643.6
120°	698.2	698.2	698.2	698.2	698.2	697.3	695.5	693.8	692.0	690.2	689.6
122.5°	742.3	742.1	741.8	741.7	741.5	740.8	739.6	738.3	737.1	735.8	734.9
125°	804.3	803.8	803.4	802.9	802.5	802.0	801.6	801.2	800.7	800.2	799.4
127.5°	863.8	864.4	864.8	865.2	865.6	865.5	864.8	864.1	863.4	862.6	861.6
130°	902.3	902.8	903.2	903.6	904.0	903.9	902.9	902.1	901.2	900.3	899.4
132.5°	937.5	938.1	938.7	939.4	940.0	939.9	939.0	938.1	937.2	936.3	935.6
135°	991.4	992.0	992.6	993.3	994.0	994.0	993.3	992.6	992.0	991.4	990.4
137.5°	1041.9	1042.4	1042.8	1043.3	1043.7	1043.4	1042.3	1041.3	1040.2	1039.1	1038.6
140°	1072.4	1072.8	1073.2	1073.7	1074.1	1073.9	1073.0	1072.1	1071.3	1070.3	1069.7
142.5°	1100.4	1101.0	1101.6	1102.3	1102.9	1102.8	1102.1	1101.4	1100.7	1099.9	1099.3
145°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.1	1142.7	1142.3	1141.8	1141.3	1140.9
147.5°	1175.4	1176.4	1177.4	1178.5	1179.5	1179.7	1179.3	1178.9	1178.5	1177.9	1177.5
150°	1199.4	1200.1	1200.8	1201.4	1202.0	1202.1	1201.7	1201.3	1200.8	1200.4	1200.0
152.5°	1218.6	1219.6	1220.6	1221.7	1222.7	1222.8	1222.0	1221.2	1220.4	1219.6	1219.3
155°	1245.4	1246.7	1248.1	1249.4	1250.7	1250.9	1249.7	1248.6	1247.5	1246.4	1246.2
157.5°	1268.0	1269.7	1271.4	1273.2	1275.0	1275.1	1273.8	1272.5	1271.2	1269.8	1270.1
160°	1282.4	1283.9	1285.6	1287.1	1288.7	1288.7	1287.4	1286.1	1284.8	1283.4	1283.7
162.5°	1296.0	1297.4	1298.7	1300.1	1301.5	1301.5	1299.9	1298.5	1296.9	1295.4	1295.6
165°	1312.4	1314.0	1315.5	1317.1	1318.6	1318.5	1316.7	1315.0	1313.2	1311.4	1311.6
167.5°	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4	1329.6	1327.7	1326.0	1324.2	1324.2
170°	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5	1336.8	1335.0	1333.2	1331.5	1331.5
172.5°	1335.4	1337.4	1339.4	1341.3	1343.2	1343.3	1341.5	1339.8	1338.0	1336.2	1336.0
175°	1341.4	1343.2	1345.0	1346.8	1348.5	1348.7	1347.1	1345.6	1344.0	1342.4	1342.2
177.5°	1343.2	1345.0	1346.8	1348.6	1350.3	1350.5	1349.1	1347.6	1346.3	1344.8	1344.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	795.4	794.6	790.9	786.7	781.2	777.5	774.6	773.0	768.3	762.4	758.5
5°	844.6	834.7	824.1	811.2	799.4	787.2	779.6	770.7	759.8	747.6	739.0
7.5°	897.2	877.8	856.9	835.3	814.0	794.9	778.0	763.5	746.2	728.8	716.4
10°	937.5	909.2	879.9	849.8	822.4	796.8	777.0	757.5	736.8	716.6	701.5
12.5°	974.2	936.9	903.1	866.2	831.2	800.5	772.0	749.1	724.1	702.7	685.4
15°	1020.6	982.4	941.5	885.5	839.0	800.0	765.4	735.4	705.1	678.7	661.9
17.5°	1064.0	1006.5	951.6	904.7	844.4	795.7	753.5	717.6	684.3	656.3	635.6
20°	1082.0	1026.3	966.6	906.9	847.6	793.2	744.0	704.4	669.8	638.1	619.0
22.5°	1092.8	1029.7	966.8	902.7	839.6	783.1	734.5	691.0	653.4	623.4	599.8
25°	1105.4	1030.2	961.0	897.7	833.4	772.0	714.3	668.1	627.6	595.6	570.5
27.5°	1113.7	1025.3	943.4	873.1	807.8	746.7	693.9	644.9	603.7	569.9	543.0
30°	1115.3	1021.3	930.0	853.8	787.5	731.4	675.4	628.5	585.0	549.1	524.0
32.5°	1117.4	1011.6	911.8	830.9	763.0	707.5	656.7	611.9	567.3	531.9	506.4
35°	1108.7	1006.2	884.2	791.2	723.2	669.4	623.6	582.4	538.6	504.2	478.2
37.5°	1071.3	984.7	855.5	746.4	675.4	625.6	588.2	552.3	512.1	475.1	450.6
40°	1033.5	963.6	833.4	719.3	645.1	593.9	560.3	531.0	492.1	457.4	431.0
42.5°	977.3	934.9	812.3	690.8	610.7	561.5	533.1	505.6	471.5	436.3	411.5
45°	874.3	879.9	769.0	645.4	563.3	513.8	487.1	468.0	437.6	408.6	383.2
47.5°	744.9	797.4	718.3	597.0	513.2	466.7	443.4	426.7	406.3	377.8	354.6
50°	660.6	735.4	677.7	564.6	481.8	435.7	412.6	399.1	381.3	358.8	336.7
52.5°	582.7	663.1	628.6	528.4	447.8	405.5	383.0	371.9	357.7	336.7	316.7
55°	475.2	556.6	548.7	473.9	396.7	358.8	341.6	329.2	319.5	303.8	287.9
57.5°	384.4	461.6	465.7	413.2	351.7	314.3	299.5	290.1	283.8	271.9	257.3
60°	327.2	398.0	411.9	372.3	319.5	286.5	272.1	264.5	259.5	249.9	238.8
62.5°	279.7	340.0	355.7	327.2	288.7	257.8	246.5	239.2	235.8	227.6	217.7
65°	214.0	264.2	279.3	263.5	243.4	218.6	209.4	203.1	200.2	195.5	188.3
67.5°	160.9	197.5	214.1	202.9	195.7	180.0	174.2	170.8	168.2	165.1	158.9
70°	129.2	156.4	173.5	170.5	164.5	156.4	152.1	149.7	147.1	144.5	139.1
72.5°	103.9	122.5	138.6	140.2	135.3	133.6	129.8	128.9	127.3	124.2	121.2
75°	69.0	81.8	93.0	97.3	99.3	100.9	99.3	98.9	98.6	96.0	94.3
77.5°	45.2	52.1	59.2	66.5	69.6	71.8	72.3	73.5	72.7	71.3	70.5
80°	34.6	36.2	41.2	47.5	52.4	54.4	55.7	56.4	56.1	55.7	54.4
82.5°	25.1	26.5	28.8	33.2	37.4	40.7	41.5	41.3	42.1	42.3	41.2
85°	13.5	13.9	14.6	15.2	17.5	21.1	22.1	22.7	23.4	23.4	21.4
87.5°	7.8	7.1	7.0	6.5	6.8	6.6	7.7	8.6	9.4	8.8	9.2
90°	18.3	15.3	12.5	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	21.3	19.1	16.9	16.1	16.7	17.4	18.0	18.6	18.0	17.4	16.7
95°	26.1	23.7	21.3	24.5	33.7	42.8	51.9	61.0	51.9	42.8	33.7
97.5°	64.2	80.2	96.3	106.2	110.4	114.4	118.6	122.6	118.6	114.4	110.4
100°	102.4	137.1	171.7	186.8	182.4	178.0	173.5	169.0	173.5	178.0	182.4
102.5°	141.5	179.4	217.3	234.7	231.4	228.3	225.1	221.9	225.1	228.3	231.4
105°	259.1	279.1	299.1	307.9	305.4	303.0	300.6	298.1	300.6	303.0	305.4
107.5°	395.2	392.1	388.9	386.3	384.4	382.5	380.5	378.5	380.5	382.5	384.4
110°	446.3	443.8	441.3	439.3	437.5	435.7	433.9	432.1	433.9	435.7	437.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	496.7	494.2	491.8	489.7	488.2	486.6	484.9	483.4	484.9	486.6	488.2
115°	570.2	568.2	566.2	564.5	563.2	561.8	560.5	559.2	560.5	561.8	563.2
117.5°	642.6	641.5	640.5	639.2	637.6	635.8	634.2	632.6	634.2	635.8	637.6
120°	688.9	688.2	687.6	686.2	684.2	682.3	680.2	678.2	680.2	682.3	684.2
122.5°	734.2	733.3	732.5	731.2	729.5	727.9	726.3	724.6	726.3	727.9	729.5
125°	798.5	797.5	796.7	795.4	793.6	791.8	790.1	788.2	790.1	791.8	793.6
127.5°	860.6	859.5	858.4	857.0	855.2	853.4	851.6	849.9	851.6	853.4	855.2
130°	898.5	897.6	896.7	895.4	893.6	891.8	890.1	888.3	890.1	891.8	893.6
132.5°	934.9	934.2	933.4	932.2	930.4	928.7	926.9	925.1	926.9	928.7	930.4
135°	989.5	988.7	987.7	986.6	985.3	984.0	982.7	981.3	982.7	984.0	985.3
137.5°	1038.2	1037.7	1037.2	1036.1	1034.4	1032.7	1031.0	1029.3	1031.0	1032.7	1034.4
140°	1069.0	1068.3	1067.6	1066.7	1065.3	1064.0	1062.6	1061.4	1062.6	1064.0	1065.3
142.5°	1098.6	1097.9	1097.3	1096.3	1094.9	1093.6	1092.3	1091.0	1092.3	1093.6	1094.9
145°	1140.5	1140.1	1139.6	1138.6	1137.0	1135.5	1133.9	1132.4	1133.9	1135.5	1137.0
147.5°	1177.1	1176.6	1176.2	1175.4	1174.4	1173.5	1172.4	1171.4	1172.4	1173.5	1174.4
150°	1199.5	1199.0	1198.6	1198.1	1197.4	1196.7	1196.0	1195.4	1196.0	1196.7	1197.4
152.5°	1219.1	1218.7	1218.5	1218.2	1217.9	1217.6	1217.3	1217.0	1217.3	1217.6	1217.9
155°	1246.0	1245.7	1245.5	1245.6	1246.0	1246.5	1247.0	1247.4	1247.0	1246.5	1246.0
157.5°	1270.2	1270.5	1270.7	1270.8	1270.8	1270.9	1270.9	1271.0	1270.9	1270.9	1270.8
160°	1283.8	1284.1	1284.3	1284.5	1284.8	1285.0	1285.2	1285.4	1285.2	1285.0	1284.8
162.5°	1295.9	1296.1	1296.3	1296.7	1297.3	1297.9	1298.5	1299.0	1298.5	1297.9	1297.3
165°	1311.8	1312.1	1312.3	1312.8	1313.5	1314.1	1314.7	1315.4	1314.7	1314.1	1313.5
167.5°	1324.2	1324.2	1324.2	1324.6	1325.6	1326.5	1327.3	1328.3	1327.3	1326.5	1325.6
170°	1331.5	1331.5	1331.5	1331.9	1332.7	1333.7	1334.6	1335.4	1334.6	1333.7	1332.7
172.5°	1335.8	1335.7	1335.5	1335.9	1337.0	1338.1	1339.2	1340.2	1339.2	1338.1	1337.0
175°	1342.0	1341.8	1341.5	1342.0	1343.1	1344.2	1345.3	1346.4	1345.3	1344.2	1343.1
177.5°	1344.5	1344.3	1344.1	1344.5	1345.4	1346.3	1347.1	1348.1	1347.1	1346.3	1345.4
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	757.2	753.7	751.4	746.1	742.7	739.0	735.3	737.6	737.4	737.1	737.1
5°	731.8	724.2	717.3	708.3	702.7	695.9	690.5	689.9	691.2	686.6	684.0
7.5°	706.6	696.2	686.4	676.6	666.2	657.8	652.6	650.2	646.9	644.0	641.0
10°	688.9	676.7	667.1	655.0	643.8	633.9	627.6	623.3	621.0	618.6	614.4
12.5°	670.7	658.8	646.5	632.7	622.1	610.6	606.0	601.2	596.7	594.1	588.2
15°	644.0	628.5	615.7	601.2	589.4	578.1	571.5	562.0	560.6	557.3	551.4
17.5°	617.3	600.5	582.8	572.0	558.6	547.0	536.9	533.7	524.3	520.7	515.6
20°	596.2	580.7	567.2	553.0	533.6	522.7	514.8	510.5	502.9	498.3	495.0
22.5°	578.1	562.2	546.6	530.1	514.0	501.9	496.0	489.4	485.3	478.8	475.2
25°	552.1	534.9	516.1	498.3	486.7	477.5	468.3	462.4	456.4	453.4	446.9
27.5°	521.9	503.9	486.4	472.9	458.7	449.5	441.2	435.9	428.8	423.8	420.2
30°	505.2	484.1	469.0	456.8	438.6	430.1	423.8	417.2	411.9	406.7	402.9
32.5°	485.9	466.7	452.3	437.2	423.3	414.0	405.8	400.0	395.5	390.5	386.9
35°	455.7	439.6	424.7	409.6	399.3	389.8	380.2	375.3	371.0	366.4	363.1
37.5°	428.4	413.4	399.2	384.9	372.2	364.4	356.7	352.9	347.2	344.1	340.7
40°	411.6	396.7	381.6	367.7	354.5	348.6	341.6	336.0	330.8	328.5	324.9
42.5°	393.1	378.2	365.5	350.5	339.8	331.7	325.3	319.2	315.2	311.9	309.8
45°	365.8	352.5	340.0	325.2	315.0	308.0	300.7	295.2	291.5	289.2	285.6
47.5°	339.1	326.0	313.2	300.3	290.4	282.5	275.3	271.3	266.6	263.7	261.2
50°	319.9	308.0	294.5	282.6	272.8	264.8	258.9	253.9	249.6	246.0	244.4
52.5°	302.2	289.6	277.8	266.8	256.4	247.4	242.0	236.8	233.6	229.4	227.5
55°	273.0	260.9	251.0	240.0	229.9	222.3	215.7	211.0	207.8	203.1	200.5
57.5°	245.6	234.7	222.9	213.5	202.9	196.6	191.1	184.8	180.8	177.2	174.6
60°	227.2	214.6	204.5	195.5	186.3	178.1	173.1	168.2	163.9	160.2	158.0
62.5°	207.9	197.0	187.4	177.6	169.2	162.0	156.3	152.1	148.4	146.0	143.7
65°	178.4	169.9	160.0	152.1	144.1	138.9	134.2	130.6	127.9	126.3	124.3
67.5°	151.3	142.9	134.3	126.5	121.2	117.2	114.2	111.1	109.8	107.6	106.3
70°	133.5	125.0	117.4	111.5	106.2	103.2	101.3	98.9	97.6	95.0	93.7
72.5°	114.3	108.1	102.6	97.7	93.5	90.8	88.3	85.5	83.3	80.5	79.1
75°	90.1	84.5	80.2	76.8	74.2	70.6	67.0	64.0	63.0	62.0	61.6
77.5°	66.6	63.1	60.0	57.3	54.0	51.3	50.5	49.9	49.7	49.2	49.2
80°	52.4	49.2	46.8	43.6	41.6	41.6	41.6	40.9	41.2	41.2	41.2
82.5°	39.0	35.9	34.7	33.5	33.1	33.4	33.4	33.5	33.3	33.8	33.6
85°	20.1	20.4	21.1	20.8	21.1	21.1	21.8	21.4	21.8	21.1	21.8
87.5°	9.4	10.7	11.5	12.3	13.2	13.5	13.9	14.1	14.6	14.7	14.9
90°	9.9	12.5	15.3	18.3	21.1	24.0	24.9	25.7	26.7	27.6	28.2
92.5°	16.1	16.9	19.1	21.3	23.4	25.6	27.0	28.4	29.9	31.3	32.1
95°	24.5	21.3	23.7	26.1	28.6	31.0	32.5	34.1	35.6	37.2	38.0
97.5°	106.2	96.3	80.2	64.2	48.2	32.2	34.0	35.7	37.5	39.3	40.3
100°	186.8	171.7	137.1	102.4	67.7	33.0	34.8	36.6	38.3	40.1	41.2
102.5°	234.7	217.3	179.4	141.5	103.7	65.8	60.3	54.8	49.2	43.7	41.2
105°	307.9	299.1	279.1	259.1	239.1	219.0	179.7	140.3	101.0	61.6	42.3
107.5°	386.3	388.9	392.1	395.2	398.4	401.6	372.6	343.8	315.0	286.1	256.8
110°	439.3	441.3	443.8	446.3	448.7	451.2	443.8	436.4	429.1	421.8	402.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	489.7	491.8	494.2	496.7	499.1	501.5	501.7	501.8	502.0	502.1	498.8
115°	564.5	566.2	568.2	570.2	572.2	574.2	576.4	578.6	580.8	583.1	584.6
117.5°	639.2	640.5	641.5	642.6	643.6	644.6	646.4	648.2	650.0	651.7	652.7
120°	686.2	687.6	688.2	688.9	689.6	690.2	692.0	693.8	695.5	697.3	698.2
122.5°	731.2	732.5	733.3	734.2	734.9	735.8	737.1	738.3	739.6	740.8	741.5
125°	795.4	796.7	797.5	798.5	799.4	800.2	800.7	801.2	801.6	802.0	802.5
127.5°	857.0	858.4	859.5	860.6	861.6	862.6	863.4	864.1	864.8	865.5	865.6
130°	895.4	896.7	897.6	898.5	899.4	900.3	901.2	902.1	902.9	903.9	904.0
132.5°	932.2	933.4	934.2	934.9	935.6	936.3	937.2	938.1	939.0	939.9	940.0
135°	986.6	987.7	988.7	989.5	990.4	991.4	992.0	992.6	993.3	994.0	994.0
137.5°	1036.1	1037.2	1037.7	1038.2	1038.6	1039.1	1040.2	1041.3	1042.3	1043.4	1043.7
140°	1066.7	1067.6	1068.3	1069.0	1069.7	1070.3	1071.3	1072.1	1073.0	1073.9	1074.1
142.5°	1096.3	1097.3	1097.9	1098.6	1099.3	1099.9	1100.7	1101.4	1102.1	1102.8	1102.9
145°	1138.6	1139.6	1140.1	1140.5	1140.9	1141.3	1141.8	1142.3	1142.7	1143.1	1143.3
147.5°	1175.4	1176.2	1176.6	1177.1	1177.5	1177.9	1178.5	1178.9	1179.3	1179.7	1179.5
150°	1198.1	1198.6	1199.0	1199.5	1200.0	1200.4	1200.8	1201.3	1201.7	1202.1	1202.0
152.5°	1218.2	1218.5	1218.7	1219.1	1219.3	1219.6	1220.4	1221.2	1222.0	1222.8	1222.7
155°	1245.6	1245.5	1245.7	1246.0	1246.2	1246.4	1247.5	1248.6	1249.7	1250.9	1250.7
157.5°	1270.8	1270.7	1270.5	1270.2	1270.1	1269.8	1271.2	1272.5	1273.8	1275.1	1275.0
160°	1284.5	1284.3	1284.1	1283.8	1283.7	1283.4	1284.8	1286.1	1287.4	1288.7	1288.7
162.5°	1296.7	1296.3	1296.1	1295.9	1295.6	1295.4	1296.9	1298.5	1299.9	1301.5	1301.5
165°	1312.8	1312.3	1312.1	1311.8	1311.6	1311.4	1313.2	1315.0	1316.7	1318.5	1318.6
167.5°	1324.6	1324.2	1324.2	1324.2	1324.2	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4
170°	1331.9	1331.5	1331.5	1331.5	1331.5	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5
172.5°	1335.9	1335.5	1335.7	1335.8	1336.0	1336.2	1338.0	1339.8	1341.5	1343.3	1343.2
175°	1342.0	1341.5	1341.8	1342.0	1342.2	1342.4	1344.0	1345.6	1347.1	1348.7	1348.5
177.5°	1344.5	1344.1	1344.3	1344.5	1344.6	1344.8	1346.3	1347.6	1349.1	1350.5	1350.3
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	733.9	733.7	733.9	732.9	733.9	733.7	733.9	737.1	737.1	737.4	737.6
5°	682.9	682.6	681.7	678.7	681.7	682.6	682.9	684.0	686.6	691.2	689.9
7.5°	638.4	638.0	635.1	635.2	635.1	638.0	638.4	641.0	644.0	646.9	650.2
10°	612.1	612.4	608.5	606.1	608.5	612.4	612.1	614.4	618.6	621.0	623.3
12.5°	586.5	585.0	581.8	579.2	581.8	585.0	586.5	588.2	594.1	596.7	601.2
15°	552.7	549.4	541.5	542.2	541.5	549.4	552.7	551.4	557.3	560.6	562.0
17.5°	512.9	510.5	510.4	505.8	510.4	510.5	512.9	515.6	520.7	524.3	533.7
20°	489.7	488.1	488.7	484.1	488.7	488.1	489.7	495.0	498.3	502.9	510.5
22.5°	471.5	469.8	467.1	465.6	467.1	469.8	471.5	475.2	478.8	485.3	489.4
25°	444.9	442.2	439.6	441.3	439.6	442.2	444.9	446.9	453.4	456.4	462.4
27.5°	418.2	416.2	413.6	413.3	413.6	416.2	418.2	420.2	423.8	428.8	435.9
30°	401.3	399.3	398.0	396.4	398.0	399.3	401.3	402.9	406.7	411.9	417.2
32.5°	384.2	383.8	381.4	381.1	381.4	383.8	384.2	386.9	390.5	395.5	400.0
35°	361.8	359.8	359.1	359.5	359.1	359.8	361.8	363.1	366.4	371.0	375.3
37.5°	340.4	337.9	336.7	335.4	336.7	337.9	340.4	340.7	344.1	347.2	352.9
40°	325.2	322.5	321.8	321.2	321.8	322.5	325.2	324.9	328.5	330.8	336.0
42.5°	308.0	306.9	306.6	305.4	306.6	306.9	308.0	309.8	311.9	315.2	319.2
45°	284.6	284.3	282.3	282.9	282.3	284.3	284.6	285.6	289.2	291.5	295.2
47.5°	259.9	258.5	257.1	258.0	257.1	258.5	259.9	261.2	263.7	266.6	271.3
50°	243.1	242.4	239.4	240.0	239.4	242.4	243.1	244.4	246.0	249.6	253.9
52.5°	226.2	223.7	222.6	222.1	222.6	223.7	226.2	227.5	229.4	233.6	236.8
55°	198.2	195.2	193.9	193.2	193.9	195.2	198.2	200.5	203.1	207.8	211.0
57.5°	170.7	170.0	168.9	169.6	168.9	170.0	170.7	174.6	177.2	180.8	184.8
60°	154.6	154.6	154.6	154.4	154.6	154.6	154.6	158.0	160.2	163.9	168.2
62.5°	142.2	141.5	141.2	141.6	141.2	141.5	142.2	143.7	146.0	148.4	152.1
65°	123.3	123.0	121.7	121.4	121.7	123.0	123.3	124.3	126.3	127.9	130.6
67.5°	105.5	104.3	103.9	103.4	103.9	104.3	105.5	106.3	107.6	109.8	111.1
70°	92.0	91.4	89.4	89.7	89.4	91.4	92.0	93.7	95.0	97.6	98.9
72.5°	77.5	76.8	76.5	75.9	76.5	76.8	77.5	79.1	80.5	83.3	85.5
75°	61.3	61.0	60.7	62.0	60.7	61.0	61.3	61.6	62.0	63.0	64.0
77.5°	49.2	49.2	49.3	48.8	49.3	49.2	49.2	49.2	49.2	49.7	49.9
80°	41.2	41.2	40.9	40.9	40.9	41.2	41.2	41.2	41.2	41.2	40.9
82.5°	33.1	33.3	33.5	33.0	33.5	33.3	33.1	33.6	33.8	33.3	33.5
85°	21.8	21.4	22.1	21.8	22.1	21.4	21.8	21.8	21.1	21.8	21.4
87.5°	15.5	15.1	15.2	15.5	15.2	15.1	15.5	14.9	14.7	14.6	14.1
90°	28.7	29.1	29.5	30.0	29.5	29.1	28.7	28.2	27.6	26.7	25.7
92.5°	32.4	32.7	33.0	33.2	33.0	32.7	32.4	32.1	31.3	29.9	28.4
95°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.2	35.6	34.1
97.5°	40.6	40.8	41.0	41.2	41.0	40.8	40.6	40.3	39.3	37.5	35.7
100°	41.3	41.6	41.8	42.0	41.8	41.6	41.3	41.2	40.1	38.3	36.6
102.5°	41.6	42.0	42.4	42.8	42.4	42.0	41.6	41.2	43.7	49.2	54.8
105°	42.7	43.1	43.6	44.0	43.6	43.1	42.7	42.3	61.6	101.0	140.3
107.5°	227.2	197.5	167.9	138.3	167.9	197.5	227.2	256.8	286.1	315.0	343.8
110°	370.5	338.6	306.9	275.1	306.9	338.6	370.5	402.3	421.8	429.1	436.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	492.1	485.3	478.6	471.9	478.6	485.3	492.1	498.8	502.1	502.0	501.8
115°	585.5	586.4	587.3	588.1	587.3	586.4	585.5	584.6	583.1	580.8	578.6
117.5°	652.9	653.1	653.2	653.4	653.2	653.1	652.9	652.7	651.7	650.0	648.2
120°	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	697.3	695.5	693.8
122.5°	741.7	741.8	742.1	742.3	742.1	741.8	741.7	741.5	740.8	739.6	738.3
125°	802.9	803.4	803.8	804.3	803.8	803.4	802.9	802.5	802.0	801.6	801.2
127.5°	865.2	864.8	864.4	863.8	864.4	864.8	865.2	865.6	865.5	864.8	864.1
130°	903.6	903.2	902.8	902.3	902.8	903.2	903.6	904.0	903.9	902.9	902.1
132.5°	939.4	938.7	938.1	937.5	938.1	938.7	939.4	940.0	939.9	939.0	938.1
135°	993.3	992.6	992.0	991.4	992.0	992.6	993.3	994.0	994.0	993.3	992.6
137.5°	1043.3	1042.8	1042.4	1041.9	1042.4	1042.8	1043.3	1043.7	1043.4	1042.3	1041.3
140°	1073.7	1073.2	1072.8	1072.4	1072.8	1073.2	1073.7	1074.1	1073.9	1073.0	1072.1
142.5°	1102.3	1101.6	1101.0	1100.4	1101.0	1101.6	1102.3	1102.9	1102.8	1102.1	1101.4
145°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.1	1142.7	1142.3
147.5°	1178.5	1177.4	1176.4	1175.4	1176.4	1177.4	1178.5	1179.5	1179.7	1179.3	1178.9
150°	1201.4	1200.8	1200.1	1199.4	1200.1	1200.8	1201.4	1202.0	1202.1	1201.7	1201.3
152.5°	1221.7	1220.6	1219.6	1218.6	1219.6	1220.6	1221.7	1222.7	1222.8	1222.0	1221.2
155°	1249.4	1248.1	1246.7	1245.4	1246.7	1248.1	1249.4	1250.7	1250.9	1249.7	1248.6
157.5°	1273.2	1271.4	1269.7	1268.0	1269.7	1271.4	1273.2	1275.0	1275.1	1273.8	1272.5
160°	1287.1	1285.6	1283.9	1282.4	1283.9	1285.6	1287.1	1288.7	1288.7	1287.4	1286.1
162.5°	1300.1	1298.7	1297.4	1296.0	1297.4	1298.7	1300.1	1301.5	1301.5	1299.9	1298.5
165°	1317.1	1315.5	1314.0	1312.4	1314.0	1315.5	1317.1	1318.6	1318.5	1316.7	1315.0
167.5°	1329.6	1327.7	1326.0	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4	1329.6	1327.7
170°	1336.8	1335.0	1333.2	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5	1336.8	1335.0
172.5°	1341.3	1339.4	1337.4	1335.4	1337.4	1339.4	1341.3	1343.2	1343.3	1341.5	1339.8
175°	1346.8	1345.0	1343.2	1341.4	1343.2	1345.0	1346.8	1348.5	1348.7	1347.1	1345.6
177.5°	1348.6	1346.8	1345.0	1343.2	1345.0	1346.8	1348.6	1350.3	1350.5	1349.1	1347.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	735.3	739.0	742.7	746.1	751.4	753.7	757.2	758.5	762.4	768.3	773.0
5°	690.5	695.9	702.7	708.3	717.3	724.2	731.8	739.0	747.6	759.8	770.7
7.5°	652.6	657.8	666.2	676.6	686.4	696.2	706.6	716.4	728.8	746.2	763.5
10°	627.6	633.9	643.8	655.0	667.1	676.7	688.9	701.5	716.6	736.8	757.5
12.5°	606.0	610.6	622.1	632.7	646.5	658.8	670.7	685.4	702.7	724.1	749.1
15°	571.5	578.1	589.4	601.2	615.7	628.5	644.0	661.9	678.7	705.1	735.4
17.5°	536.9	547.0	558.6	572.0	582.8	600.5	617.3	635.6	656.3	684.3	717.6
20°	514.8	522.7	533.6	553.0	567.2	580.7	596.2	619.0	638.1	669.8	704.4
22.5°	496.0	501.9	514.0	530.1	546.6	562.2	578.1	599.8	623.4	653.4	691.0
25°	468.3	477.5	486.7	498.3	516.1	534.9	552.1	570.5	595.6	627.6	668.1
27.5°	441.2	449.5	458.7	472.9	486.4	503.9	521.9	543.0	569.9	603.7	644.9
30°	423.8	430.1	438.6	456.8	469.0	484.1	505.2	524.0	549.1	585.0	628.5
32.5°	405.8	414.0	423.3	437.2	452.3	466.7	485.9	506.4	531.9	567.3	611.9
35°	380.2	389.8	399.3	409.6	424.7	439.6	455.7	478.2	504.2	538.6	582.4
37.5°	356.7	364.4	372.2	384.9	399.2	413.4	428.4	450.6	475.1	512.1	552.3
40°	341.6	348.6	354.5	367.7	381.6	396.7	411.6	431.0	457.4	492.1	531.0
42.5°	325.3	331.7	339.8	350.5	365.5	378.2	393.1	411.5	436.3	471.5	505.6
45°	300.7	308.0	315.0	325.2	340.0	352.5	365.8	383.2	408.6	437.6	468.0
47.5°	275.3	282.5	290.4	300.3	313.2	326.0	339.1	354.6	377.8	406.3	426.7
50°	258.9	264.8	272.8	282.6	294.5	308.0	319.9	336.7	358.8	381.3	399.1
52.5°	242.0	247.4	256.4	266.8	277.8	289.6	302.2	316.7	336.7	357.7	371.9
55°	215.7	222.3	229.9	240.0	251.0	260.9	273.0	287.9	303.8	319.5	329.2
57.5°	191.1	196.6	202.9	213.5	222.9	234.7	245.6	257.3	271.9	283.8	290.1
60°	173.1	178.1	186.3	195.5	204.5	214.6	227.2	238.8	249.9	259.5	264.5
62.5°	156.3	162.0	169.2	177.6	187.4	197.0	207.9	217.7	227.6	235.8	239.2
65°	134.2	138.9	144.1	152.1	160.0	169.9	178.4	188.3	195.5	200.2	203.1
67.5°	114.2	117.2	121.2	126.5	134.3	142.9	151.3	158.9	165.1	168.2	170.8
70°	101.3	103.2	106.2	111.5	117.4	125.0	133.5	139.1	144.5	147.1	149.7
72.5°	88.3	90.8	93.5	97.7	102.6	108.1	114.3	121.2	124.2	127.3	128.9
75°	67.0	70.6	74.2	76.8	80.2	84.5	90.1	94.3	96.0	98.6	98.9
77.5°	50.5	51.3	54.0	57.3	60.0	63.1	66.6	70.5	71.3	72.7	73.5
80°	41.6	41.6	41.6	43.6	46.8	49.2	52.4	54.4	55.7	56.1	56.4
82.5°	33.4	33.4	33.1	33.5	34.7	35.9	39.0	41.2	42.3	42.1	41.3
85°	21.8	21.1	21.1	20.8	21.1	20.4	20.1	21.4	23.4	23.4	22.7
87.5°	13.9	13.5	13.2	12.3	11.5	10.7	9.4	9.2	8.8	9.4	8.6
90°	24.9	24.0	21.1	18.3	15.3	12.5	9.9	7.7	5.4	3.2	1.0
92.5°	27.0	25.6	23.4	21.3	19.1	16.9	16.1	16.7	17.4	18.0	18.6
95°	32.5	31.0	28.6	26.1	23.7	21.3	24.5	33.7	42.8	51.9	61.0
97.5°	34.0	32.2	48.2	64.2	80.2	96.3	106.2	110.4	114.4	118.6	122.6
100°	34.8	33.0	67.7	102.4	137.1	171.7	186.8	182.4	178.0	173.5	169.0
102.5°	60.3	65.8	103.7	141.5	179.4	217.3	234.7	231.4	228.3	225.1	221.9
105°	179.7	219.0	239.1	259.1	279.1	299.1	307.9	305.4	303.0	300.6	298.1
107.5°	372.6	401.6	398.4	395.2	392.1	388.9	386.3	384.4	382.5	380.5	378.5
110°	443.8	451.2	448.7	446.3	443.8	441.3	439.3	437.5	435.7	433.9	432.1



TEST NUMBER: P332294-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	501.7	501.5	499.1	496.7	494.2	491.8	489.7	488.2	486.6	484.9	483.4
115°	576.4	574.2	572.2	570.2	568.2	566.2	564.5	563.2	561.8	560.5	559.2
117.5°	646.4	644.6	643.6	642.6	641.5	640.5	639.2	637.6	635.8	634.2	632.6
120°	692.0	690.2	689.6	688.9	688.2	687.6	686.2	684.2	682.3	680.2	678.2
122.5°	737.1	735.8	734.9	734.2	733.3	732.5	731.2	729.5	727.9	726.3	724.6
125°	800.7	800.2	799.4	798.5	797.5	796.7	795.4	793.6	791.8	790.1	788.2
127.5°	863.4	862.6	861.6	860.6	859.5	858.4	857.0	855.2	853.4	851.6	849.9
130°	901.2	900.3	899.4	898.5	897.6	896.7	895.4	893.6	891.8	890.1	888.3
132.5°	937.2	936.3	935.6	934.9	934.2	933.4	932.2	930.4	928.7	926.9	925.1
135°	992.0	991.4	990.4	989.5	988.7	987.7	986.6	985.3	984.0	982.7	981.3
137.5°	1040.2	1039.1	1038.6	1038.2	1037.7	1037.2	1036.1	1034.4	1032.7	1031.0	1029.3
140°	1071.3	1070.3	1069.7	1069.0	1068.3	1067.6	1066.7	1065.3	1064.0	1062.6	1061.4
142.5°	1100.7	1099.9	1099.3	1098.6	1097.9	1097.3	1096.3	1094.9	1093.6	1092.3	1091.0
145°	1141.8	1141.3	1140.9	1140.5	1140.1	1139.6	1138.6	1137.0	1135.5	1133.9	1132.4
147.5°	1178.5	1177.9	1177.5	1177.1	1176.6	1176.2	1175.4	1174.4	1173.5	1172.4	1171.4
150°	1200.8	1200.4	1200.0	1199.5	1199.0	1198.6	1198.1	1197.4	1196.7	1196.0	1195.4
152.5°	1220.4	1219.6	1219.3	1219.1	1218.7	1218.5	1218.2	1217.9	1217.6	1217.3	1217.0
155°	1247.5	1246.4	1246.2	1246.0	1245.7	1245.5	1245.6	1246.0	1246.5	1247.0	1247.4
157.5°	1271.2	1269.8	1270.1	1270.2	1270.5	1270.7	1270.8	1270.8	1270.9	1270.9	1271.0
160°	1284.8	1283.4	1283.7	1283.8	1284.1	1284.3	1284.5	1284.8	1285.0	1285.2	1285.4
162.5°	1296.9	1295.4	1295.6	1295.9	1296.1	1296.3	1296.7	1297.3	1297.9	1298.5	1299.0
165°	1313.2	1311.4	1311.6	1311.8	1312.1	1312.3	1312.8	1313.5	1314.1	1314.7	1315.4
167.5°	1326.0	1324.2	1324.2	1324.2	1324.2	1324.2	1324.6	1325.6	1326.5	1327.3	1328.3
170°	1333.2	1331.5	1331.5	1331.5	1331.5	1331.5	1331.9	1332.7	1333.7	1334.6	1335.4
172.5°	1338.0	1336.2	1336.0	1335.8	1335.7	1335.5	1335.9	1337.0	1338.1	1339.2	1340.2
175°	1344.0	1342.4	1342.2	1342.0	1341.8	1341.5	1342.0	1343.1	1344.2	1345.3	1346.4
177.5°	1346.3	1344.8	1344.6	1344.5	1344.3	1344.1	1344.5	1345.4	1346.3	1347.1	1348.1
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	774.6	777.5	781.2	786.7	790.9	794.6	795.4	796.5	799.1	803.6	807.0
5°	779.6	787.2	799.4	811.2	824.1	834.7	844.6	851.5	858.1	871.9	883.1
7.5°	778.0	794.9	814.0	835.3	856.9	877.8	897.2	914.6	931.9	952.0	975.0
10°	777.0	796.8	822.4	849.8	879.9	909.2	937.5	959.7	985.4	1008.5	1037.8
12.5°	772.0	800.5	831.2	866.2	903.1	936.9	974.2	1004.8	1034.1	1067.6	1101.6
15°	765.4	800.0	839.0	885.5	941.5	982.4	1020.6	1073.8	1110.0	1146.3	1195.2
17.5°	753.5	795.7	844.4	904.7	951.6	1006.5	1064.0	1106.0	1154.9	1206.0	1250.2
20°	744.0	793.2	847.6	906.9	966.6	1026.3	1082.0	1132.1	1182.6	1241.6	1277.9
22.5°	734.5	783.1	839.6	902.7	966.8	1029.7	1092.8	1151.7	1208.4	1268.0	1314.3
25°	714.3	772.0	833.4	897.7	961.0	1030.2	1105.4	1171.0	1241.3	1302.6	1346.5
27.5°	693.9	746.7	807.8	873.1	943.4	1025.3	1113.7	1188.4	1258.7	1302.6	1316.4
30°	675.4	731.4	787.5	853.8	930.0	1021.3	1115.3	1200.8	1258.4	1277.6	1263.3
32.5°	656.7	707.5	763.0	830.9	911.8	1011.6	1117.4	1193.3	1228.1	1213.5	1155.7
35°	623.6	669.4	723.2	791.2	884.2	1006.2	1108.7	1160.2	1151.6	1069.1	960.3
37.5°	588.2	625.6	675.4	746.4	855.5	984.7	1071.3	1078.8	1004.6	878.0	752.3
40°	560.3	593.9	645.1	719.3	833.4	963.6	1033.5	1002.9	887.8	746.9	642.0
42.5°	533.1	561.5	610.7	690.8	812.3	934.9	977.3	910.5	777.7	644.5	549.2
45°	487.1	513.8	563.3	645.4	769.0	879.9	874.3	758.2	625.3	518.1	438.9
47.5°	443.4	466.7	513.2	597.0	718.3	797.4	744.9	621.5	508.7	422.8	366.3
50°	412.6	435.7	481.8	564.6	677.7	735.4	660.6	541.5	438.2	367.0	322.2
52.5°	383.0	405.5	447.8	528.4	628.6	663.1	582.7	472.3	386.3	324.9	286.3
55°	341.6	358.8	396.7	473.9	548.7	556.6	475.2	382.9	311.9	269.1	242.7
57.5°	299.5	314.3	351.7	413.2	465.7	461.6	384.4	304.5	256.8	224.9	205.8
60°	272.1	286.5	319.5	372.3	411.9	398.0	327.2	262.9	222.0	198.5	183.4
62.5°	246.5	257.8	288.7	327.2	355.7	340.0	279.7	226.4	194.0	174.3	162.2
65°	209.4	218.6	243.4	263.5	279.3	264.2	214.0	177.1	153.7	139.8	131.6
67.5°	174.2	180.0	195.7	202.9	214.1	197.5	160.9	136.2	122.9	111.2	105.5
70°	152.1	156.4	164.5	170.5	173.5	156.4	129.2	111.2	100.0	91.7	88.1
72.5°	129.8	133.6	135.3	140.2	138.6	122.5	103.9	89.5	81.5	75.9	71.2
75°	99.3	100.9	99.3	97.3	93.0	81.8	69.0	61.6	55.7	53.1	51.5
77.5°	72.3	71.8	69.6	66.5	59.2	52.1	45.2	42.7	40.2	38.7	38.2
80°	55.7	54.4	52.4	47.5	41.2	36.2	34.6	33.0	32.0	30.3	30.0
82.5°	41.5	40.7	37.4	33.2	28.8	26.5	25.1	24.5	23.5	22.7	22.6
85°	22.1	21.1	17.5	15.2	14.6	13.9	13.5	13.5	12.2	11.9	11.9
87.5°	7.7	6.6	6.8	6.5	7.0	7.1	7.8	7.9	8.3	8.7	8.4
90°	3.2	5.4	7.7	9.9	12.5	15.3	18.3	21.1	24.0	24.9	25.7
92.5°	18.0	17.4	16.7	16.1	16.9	19.1	21.3	23.4	25.6	27.0	28.4
95°	51.9	42.8	33.7	24.5	21.3	23.7	26.1	28.6	31.0	32.5	34.1
97.5°	118.6	114.4	110.4	106.2	96.3	80.2	64.2	48.2	32.2	34.0	35.7
100°	173.5	178.0	182.4	186.8	171.7	137.1	102.4	67.7	33.0	34.8	36.6
102.5°	225.1	228.3	231.4	234.7	217.3	179.4	141.5	103.7	65.8	60.3	54.8
105°	300.6	303.0	305.4	307.9	299.1	279.1	259.1	239.1	219.0	179.7	140.3
107.5°	380.5	382.5	384.4	386.3	388.9	392.1	395.2	398.4	401.6	372.6	343.8
110°	433.9	435.7	437.5	439.3	441.3	443.8	446.3	448.7	451.2	443.8	436.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.9	486.6	488.2	489.7	491.8	494.2	496.7	499.1	501.5	501.7	501.8
115°	560.5	561.8	563.2	564.5	566.2	568.2	570.2	572.2	574.2	576.4	578.6
117.5°	634.2	635.8	637.6	639.2	640.5	641.5	642.6	643.6	644.6	646.4	648.2
120°	680.2	682.3	684.2	686.2	687.6	688.2	688.9	689.6	690.2	692.0	693.8
122.5°	726.3	727.9	729.5	731.2	732.5	733.3	734.2	734.9	735.8	737.1	738.3
125°	790.1	791.8	793.6	795.4	796.7	797.5	798.5	799.4	800.2	800.7	801.2
127.5°	851.6	853.4	855.2	857.0	858.4	859.5	860.6	861.6	862.6	863.4	864.1
130°	890.1	891.8	893.6	895.4	896.7	897.6	898.5	899.4	900.3	901.2	902.1
132.5°	926.9	928.7	930.4	932.2	933.4	934.2	934.9	935.6	936.3	937.2	938.1
135°	982.7	984.0	985.3	986.6	987.7	988.7	989.5	990.4	991.4	992.0	992.6
137.5°	1031.0	1032.7	1034.4	1036.1	1037.2	1037.7	1038.2	1038.6	1039.1	1040.2	1041.3
140°	1062.6	1064.0	1065.3	1066.7	1067.6	1068.3	1069.0	1069.7	1070.3	1071.3	1072.1
142.5°	1092.3	1093.6	1094.9	1096.3	1097.3	1097.9	1098.6	1099.3	1099.9	1100.7	1101.4
145°	1133.9	1135.5	1137.0	1138.6	1139.6	1140.1	1140.5	1140.9	1141.3	1141.8	1142.3
147.5°	1172.4	1173.5	1174.4	1175.4	1176.2	1176.6	1177.1	1177.5	1177.9	1178.5	1178.9
150°	1196.0	1196.7	1197.4	1198.1	1198.6	1199.0	1199.5	1200.0	1200.4	1200.8	1201.3
152.5°	1217.3	1217.6	1217.9	1218.2	1218.5	1218.7	1219.1	1219.3	1219.6	1220.4	1221.2
155°	1247.0	1246.5	1246.0	1245.6	1245.5	1245.7	1246.0	1246.2	1246.4	1247.5	1248.6
157.5°	1270.9	1270.9	1270.8	1270.8	1270.7	1270.5	1270.2	1270.1	1269.8	1271.2	1272.5
160°	1285.2	1285.0	1284.8	1284.5	1284.3	1284.1	1283.8	1283.7	1283.4	1284.8	1286.1
162.5°	1298.5	1297.9	1297.3	1296.7	1296.3	1296.1	1295.9	1295.6	1295.4	1296.9	1298.5
165°	1314.7	1314.1	1313.5	1312.8	1312.3	1312.1	1311.8	1311.6	1311.4	1313.2	1315.0
167.5°	1327.3	1326.5	1325.6	1324.6	1324.2	1324.2	1324.2	1324.2	1324.2	1326.0	1327.7
170°	1334.6	1333.7	1332.7	1331.9	1331.5	1331.5	1331.5	1331.5	1331.5	1333.2	1335.0
172.5°	1339.2	1338.1	1337.0	1335.9	1335.5	1335.7	1335.8	1336.0	1336.2	1338.0	1339.8
175°	1345.3	1344.2	1343.1	1342.0	1341.5	1341.8	1342.0	1342.2	1342.4	1344.0	1345.6
177.5°	1347.1	1346.3	1345.4	1344.5	1344.1	1344.3	1344.5	1344.6	1344.8	1346.3	1347.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	812.6	812.6	813.6	817.6	818.1	821.6	820.4
5°	893.0	899.3	901.6	911.5	917.5	920.1	914.8
7.5°	991.4	1009.1	1017.5	1027.9	1037.0	1039.8	1032.6
10°	1063.2	1081.7	1097.2	1106.7	1115.7	1121.5	1129.2
12.5°	1132.6	1155.3	1170.0	1183.5	1192.7	1200.2	1201.4
15°	1208.0	1242.3	1268.3	1287.5	1297.0	1302.0	1300.0
17.5°	1284.0	1315.8	1334.4	1353.8	1367.1	1367.8	1368.2
20°	1327.1	1358.1	1379.5	1394.0	1408.9	1408.2	1411.4
22.5°	1355.8	1380.2	1396.6	1407.1	1412.2	1409.7	1410.4
25°	1369.2	1376.5	1373.6	1356.7	1352.5	1337.0	1339.5
27.5°	1299.9	1265.6	1230.1	1184.4	1148.4	1119.6	1121.1
30°	1205.7	1145.0	1075.7	1017.7	965.6	951.1	920.1
32.5°	1074.0	983.0	901.9	847.8	803.1	790.9	763.9
35°	850.8	762.4	679.0	628.9	609.1	581.4	581.1
37.5°	661.3	583.5	539.4	501.8	482.1	465.3	463.6
40°	556.4	495.7	462.4	435.3	415.9	403.3	400.4
42.5°	483.0	433.9	402.7	386.0	371.0	364.5	359.7
45°	394.4	361.4	339.7	324.5	317.5	312.6	310.0
47.5°	329.9	307.8	293.0	282.9	277.2	272.1	273.5
50°	294.8	276.7	265.8	256.2	251.9	248.3	248.7
52.5°	266.6	250.3	241.5	234.6	229.3	226.7	225.4
55°	226.3	216.0	207.1	202.2	199.1	195.5	194.6
57.5°	193.0	185.0	177.8	172.2	171.5	168.0	168.4
60°	170.8	164.2	158.3	155.3	153.0	150.1	151.0
62.5°	152.7	147.1	141.6	139.2	136.9	134.7	135.2
65°	125.0	119.7	116.4	115.1	114.1	113.1	112.1
67.5°	99.6	96.3	94.3	91.4	89.5	89.1	88.1
70°	83.8	79.5	75.9	72.2	71.2	70.9	71.2
72.5°	67.2	64.4	63.5	61.6	61.5	60.6	61.2
75°	50.5	49.5	48.8	47.5	47.5	47.5	47.5
77.5°	37.2	36.6	36.2	35.9	35.6	35.1	35.1
80°	29.0	28.7	28.1	28.1	27.7	28.1	27.7
82.5°	21.9	21.9	21.2	21.2	20.8	20.7	20.8
85°	11.2	10.8	11.5	10.8	11.2	10.6	11.2
87.5°	8.5	8.7	8.5	8.6	8.4	9.0	8.6
90°	26.7	27.6	28.2	28.7	29.1	29.5	30.0
92.5°	29.9	31.3	32.1	32.4	32.7	33.0	33.2
95°	35.6	37.2	38.0	38.0	38.0	38.0	38.0
97.5°	37.5	39.3	40.3	40.6	40.8	41.0	41.2
100°	38.3	40.1	41.2	41.3	41.6	41.8	42.0
102.5°	49.2	43.7	41.2	41.6	42.0	42.4	42.8
105°	101.0	61.6	42.3	42.7	43.1	43.6	44.0
107.5°	315.0	286.1	256.8	227.2	197.5	167.9	138.3
110°	429.1	421.8	402.3	370.5	338.6	306.9	275.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	502.0	502.1	498.8	492.1	485.3	478.6	471.9
115°	580.8	583.1	584.6	585.5	586.4	587.3	588.1
117.5°	650.0	651.7	652.7	652.9	653.1	653.2	653.4
120°	695.5	697.3	698.2	698.2	698.2	698.2	698.2
122.5°	739.6	740.8	741.5	741.7	741.8	742.1	742.3
125°	801.6	802.0	802.5	802.9	803.4	803.8	804.3
127.5°	864.8	865.5	865.6	865.2	864.8	864.4	863.8
130°	902.9	903.9	904.0	903.6	903.2	902.8	902.3
132.5°	939.0	939.9	940.0	939.4	938.7	938.1	937.5
135°	993.3	994.0	994.0	993.3	992.6	992.0	991.4
137.5°	1042.3	1043.4	1043.7	1043.3	1042.8	1042.4	1041.9
140°	1073.0	1073.9	1074.1	1073.7	1073.2	1072.8	1072.4
142.5°	1102.1	1102.8	1102.9	1102.3	1101.6	1101.0	1100.4
145°	1142.7	1143.1	1143.3	1143.3	1143.3	1143.3	1143.3
147.5°	1179.3	1179.7	1179.5	1178.5	1177.4	1176.4	1175.4
150°	1201.7	1202.1	1202.0	1201.4	1200.8	1200.1	1199.4
152.5°	1222.0	1222.8	1222.7	1221.7	1220.6	1219.6	1218.6
155°	1249.7	1250.9	1250.7	1249.4	1248.1	1246.7	1245.4
157.5°	1273.8	1275.1	1275.0	1273.2	1271.4	1269.7	1268.0
160°	1287.4	1288.7	1288.7	1287.1	1285.6	1283.9	1282.4
162.5°	1299.9	1301.5	1301.5	1300.1	1298.7	1297.4	1296.0
165°	1316.7	1318.5	1318.6	1317.1	1315.5	1314.0	1312.4
167.5°	1329.6	1331.4	1331.4	1329.6	1327.7	1326.0	1324.2
170°	1336.8	1338.5	1338.5	1336.8	1335.0	1333.2	1331.5
172.5°	1341.5	1343.3	1343.2	1341.3	1339.4	1337.4	1335.4
175°	1347.1	1348.7	1348.5	1346.8	1345.0	1343.2	1341.4
177.5°	1349.1	1350.5	1350.3	1348.6	1346.8	1345.0	1343.2
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4

(END OF REPORT)