

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: P331321-830

Luminaire Tested: **SA2XXDIP-C485D1080U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331321-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C485D1080U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

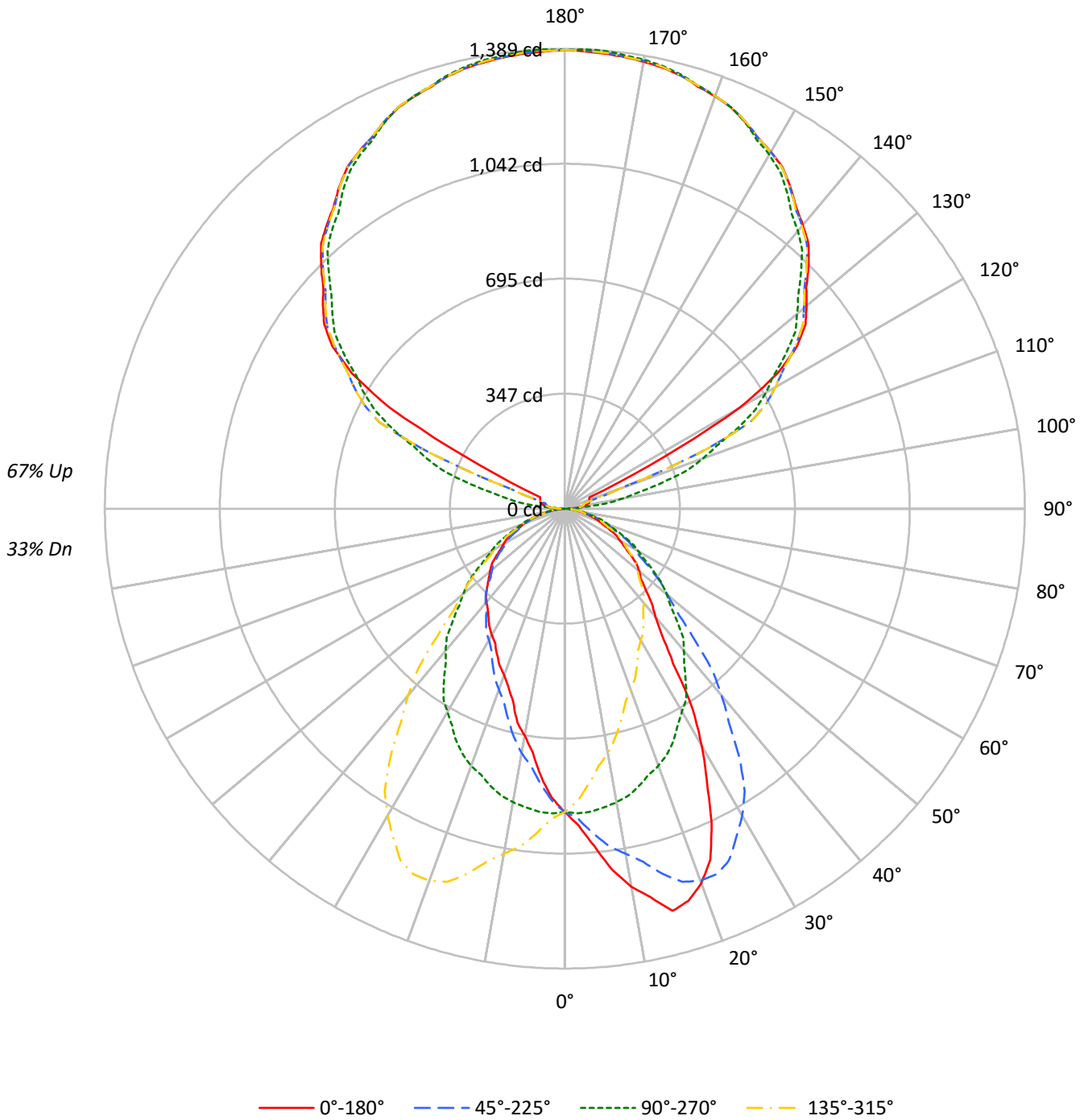
Lumens per Lamp: N/A
Luminaire Lumens: 6082.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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	33				
1	94	90	87	83	85	82	78	76	65	63	61	50	49	48	36	36	35	29				
2	86	79	73	68	77	72	67	63	58	54	51	45	42	40	32	31	30	24				
3	79	70	63	57	71	63	57	53	51	47	43	40	37	34	29	27	26	21				
4	72	62	54	49	65	56	50	45	45	41	37	35	32	30	26	24	23	18				
5	66	55	47	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	50	42	36	55	45	38	34	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	41	33	28	47	37	31	26	30	26	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14788	14788	14788	14788
5°	16579	14885	13190	14885
10°	18998	14762	11416	14762
15°	21018	14492	10084	14492
20°	20697	14201	9194	14201
25°	18661	13814	8630	13814
30°	15422	13196	8216	13196
35°	11239	12552	7924	12552
40°	8977	11788	7761	11788
45°	7846	10908	7540	10908
50°	7375	10052	7392	10052
55°	6798	9185	7192	9185
60°	6229	8263	6888	8263
65°	5673	7435	6590	7435
70°	5150	6628	6151	6628
75°	4566	5733	5446	5733
80°	3924	4751	4379	4751
85°	3520	3520	2594	3520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.4
10°-20°	253.6	4.2
20°-30°	368.0	6.1
30°-40°	388.4	6.4
40°-50°	343.9	5.7
50°-60°	274.4	4.5
60°-70°	186.5	3.1
70°-80°	95.6	1.6
80°-90°	26.5	0.4
90°-100°	46.2	0.8
100°-110°	169.4	2.8
110°-120°	452.8	7.4
120°-130°	747.4	12.3
130°-140°	794.9	13.1
140°-150°	738.8	12.1
150°-160°	594.0	9.8
160°-170°	382.8	6.3
170°-180°	131.8	2.2
0°-30°	708.8	11.7
0°-40°	1097.2	18.0
0°-60°	1715.5	28.2
0°-90°	2024.1	33.3
90°-120°	668.4	11.0
90°-150°	2949.4	48.5
90°-180°	4058.0	66.7
0°-180°	6082.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	916	916	916	916	916	
5°	1023	918	814	918	1023	102
15°	1257	867	603	867	1257	347
25°	1048	775	484	775	1048	473
35°	570	637	402	637	570	371
45°	344	478	330	478	344	270
55°	242	326	256	326	242	217
65°	148	195	172	195	148	148
75°	73	92	87	92	73	78
85°	19	19	14	19	19	22
90°	27	1	27	1	27	13
95°	43	65	43	65	43	40
105°	76	305	76	305	76	79
115°	82	576	82	576	82	206
125°	857	815	857	815	857	741
135°	1041	1008	1041	1008	1041	802
145°	1187	1169	1187	1169	1187	743
155°	1288	1288	1288	1288	1288	595
165°	1354	1357	1354	1357	1354	382
175°	1380	1388	1380	1388	1380	131
180°	1385	1385	1385	1385	1385	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	958.2	958.5	958.9	954.5	953.9	953.9	950.0	946.6	942.6	937.3	937.8
5°	1022.9	1026.8	1028.2	1024.0	1017.7	1016.9	1011.0	1001.1	991.9	984.6	979.3
7.5°	1100.2	1101.7	1098.3	1092.8	1088.1	1079.6	1068.5	1057.5	1042.3	1028.2	1017.9
10°	1158.8	1160.9	1154.9	1146.8	1140.1	1130.3	1114.1	1097.5	1077.5	1058.1	1042.6
12.5°	1203.2	1208.5	1200.8	1199.8	1188.3	1174.8	1155.5	1147.1	1118.9	1091.9	1075.3
15°	1257.4	1257.0	1257.7	1251.0	1242.6	1240.5	1220.0	1197.9	1158.1	1142.3	1114.7
17.5°	1241.7	1247.1	1249.5	1249.4	1249.2	1247.9	1241.3	1227.4	1207.4	1181.8	1150.1
20°	1204.6	1211.5	1212.7	1220.8	1225.3	1231.3	1233.8	1229.9	1217.6	1196.1	1168.7
22.5°	1147.1	1149.1	1152.4	1165.0	1174.9	1189.9	1197.7	1210.7	1206.0	1195.5	1172.6
25°	1047.5	1044.1	1056.3	1062.7	1085.5	1109.5	1126.7	1145.8	1162.6	1172.9	1166.2
27.5°	928.0	922.7	941.2	958.0	976.6	1002.5	1029.4	1061.1	1087.5	1120.6	1131.9
30°	827.2	830.4	848.0	865.9	894.1	930.7	960.9	995.8	1033.5	1070.4	1096.1
32.5°	718.5	730.7	741.8	769.3	794.1	834.9	879.3	922.8	969.9	1011.8	1051.6
35°	570.2	584.3	599.8	619.9	654.7	695.2	738.5	797.3	861.4	918.7	965.9
37.5°	479.9	477.8	486.6	501.1	529.3	562.0	611.8	670.0	745.4	812.8	879.3
40°	425.9	424.5	430.8	444.2	465.7	489.7	533.3	584.3	654.4	736.7	816.0
42.5°	388.7	389.6	393.1	402.6	417.3	437.0	469.7	513.1	577.2	654.8	739.9
45°	343.6	346.0	349.9	354.5	362.9	379.1	397.4	428.4	479.1	543.8	627.6
47.5°	311.0	311.1	315.0	319.1	324.0	333.2	348.2	367.6	403.3	456.1	528.1
50°	293.6	291.1	293.9	297.1	302.4	308.7	318.6	336.9	360.8	403.4	463.5
52.5°	272.2	272.2	274.8	276.0	280.7	287.0	296.1	308.7	330.4	363.7	413.2
55°	241.5	243.3	244.7	246.8	251.0	255.5	262.6	271.1	287.9	312.9	349.5
57.5°	212.6	213.2	214.6	218.6	221.3	225.5	232.1	239.9	250.8	269.4	296.9
60°	192.9	192.9	195.7	197.5	201.0	205.2	210.5	217.9	227.7	242.9	265.0
62.5°	174.8	174.6	175.7	178.6	181.3	185.2	190.5	196.8	206.0	219.5	237.7
65°	148.5	147.9	150.0	150.6	153.4	157.3	161.6	168.2	175.7	185.5	201.7
67.5°	123.2	124.0	125.2	126.5	128.1	132.1	135.0	139.7	145.9	154.1	165.1
70°	109.1	109.1	109.1	110.2	112.3	114.4	117.3	121.1	127.1	134.1	143.9
72.5°	93.3	94.4	95.6	95.0	97.6	98.9	102.3	104.4	110.2	114.7	123.4
75°	73.2	73.2	73.2	74.9	76.1	77.1	79.2	81.3	84.2	89.7	94.3
77.5°	54.7	54.5	54.9	55.2	56.4	57.7	58.2	60.2	62.8	65.4	69.3
80°	42.2	43.0	43.3	44.0	44.0	44.7	45.1	47.5	49.3	51.1	53.5
82.5°	32.7	32.8	32.9	33.0	33.3	33.7	34.6	35.4	36.0	37.5	39.4
85°	19.0	18.7	18.7	19.3	19.0	19.0	19.7	20.5	20.5	20.7	21.9
87.5°	12.7	12.6	12.8	12.4	12.3	12.5	12.3	11.8	11.9	11.9	11.8
90°	27.1	26.6	26.2	25.7	25.3	24.5	23.4	22.2	21.1	20.1	18.3
92.5°	27.1	26.8	26.5	26.3	26.0	25.5	25.0	24.4	23.8	23.3	22.3
95°	43.1	43.3	43.5	43.7	44.0	43.5	42.4	41.3	40.2	39.1	37.5
97.5°	57.5	57.2	57.0	56.7	56.5	55.9	55.0	54.1	53.2	52.3	48.7
100°	67.1	66.7	66.3	65.8	65.3	64.3	62.5	60.7	58.9	57.1	53.3
102.5°	71.9	71.4	70.7	70.0	69.5	68.0	65.7	63.3	61.1	58.7	50.4
105°	76.2	75.2	74.4	73.5	72.6	70.9	68.4	66.0	63.5	61.1	52.9
107.5°	78.3	77.5	76.5	75.7	74.8	75.6	78.0	80.6	83.0	85.6	78.4
110°	79.2	78.2	77.4	76.4	75.6	86.2	108.6	130.8	153.1	175.3	239.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	79.9	79.3	78.5	77.9	77.1	117.3	198.6	279.8	361.1	442.2	458.2
115°	82.2	98.2	114.2	130.3	146.3	205.9	309.0	412.0	515.1	618.2	612.7
117.5°	335.5	388.1	440.8	493.5	546.2	585.0	609.9	634.9	659.8	684.8	680.9
120°	611.2	641.2	671.3	701.3	731.4	745.2	742.4	739.8	737.1	734.4	730.5
122.5°	762.7	768.5	774.4	780.2	786.0	788.2	786.6	784.9	783.3	781.7	777.4
125°	856.7	856.0	855.4	854.7	854.0	852.9	851.3	849.8	848.2	846.7	842.4
127.5°	916.0	915.9	915.8	915.6	915.5	914.3	912.0	909.7	907.5	905.2	902.0
130°	952.9	953.1	953.3	953.6	953.8	952.6	950.2	947.7	945.3	942.8	940.4
132.5°	988.9	989.2	989.4	989.6	989.9	988.9	986.8	984.7	982.6	980.5	978.1
135°	1041.0	1041.5	1041.9	1042.4	1042.8	1041.9	1039.7	1037.5	1035.3	1033.0	1031.0
137.5°	1088.5	1089.3	1090.1	1090.8	1091.6	1090.8	1088.6	1086.5	1084.3	1082.1	1079.9
140°	1118.2	1119.3	1120.4	1121.5	1122.7	1122.2	1120.2	1118.2	1116.2	1114.2	1111.7
142.5°	1147.1	1148.2	1149.2	1150.4	1151.5	1151.1	1149.3	1147.5	1145.7	1143.9	1141.0
145°	1187.3	1188.5	1189.6	1190.7	1191.8	1191.6	1190.0	1188.5	1186.8	1185.3	1181.6
147.5°	1222.8	1223.7	1224.6	1225.6	1226.5	1226.4	1225.3	1224.1	1222.9	1221.8	1218.0
150°	1244.4	1245.6	1246.7	1247.7	1248.9	1248.8	1247.5	1246.1	1244.8	1243.4	1239.9
152.5°	1262.9	1264.3	1265.8	1267.2	1268.8	1268.9	1267.5	1266.1	1264.8	1263.5	1260.1
155°	1288.5	1290.3	1292.1	1293.8	1295.6	1295.9	1294.6	1293.2	1291.8	1290.5	1287.9
157.5°	1311.9	1313.7	1315.4	1317.2	1318.9	1319.0	1317.5	1316.0	1314.5	1313.0	1311.1
160°	1325.6	1327.2	1328.7	1330.3	1331.8	1331.9	1330.6	1329.3	1327.9	1326.6	1325.3
162.5°	1336.8	1338.7	1340.7	1342.6	1344.4	1344.7	1343.1	1341.6	1340.1	1338.6	1337.5
165°	1353.7	1355.2	1356.8	1358.3	1359.9	1359.9	1358.3	1356.8	1355.2	1353.7	1353.0
167.5°	1364.2	1366.3	1368.3	1370.3	1372.2	1372.5	1370.9	1369.4	1367.8	1366.3	1365.6
170°	1370.6	1372.7	1374.7	1376.7	1378.7	1378.9	1377.3	1375.8	1374.2	1372.7	1372.2
172.5°	1375.5	1377.5	1379.5	1381.5	1383.6	1383.7	1382.1	1380.6	1379.0	1377.5	1377.1
175°	1379.7	1382.0	1384.1	1386.4	1388.6	1388.9	1387.4	1385.8	1384.3	1382.7	1382.2
177.5°	1382.3	1383.9	1385.5	1387.1	1388.7	1388.9	1387.6	1386.4	1385.2	1383.9	1383.7
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	939.8	937.5	936.1	931.1	926.6	922.1	920.7	921.2	915.0	909.2	906.6
5°	976.5	969.4	962.7	953.2	942.0	929.6	923.3	918.4	906.1	892.7	885.0
7.5°	1009.3	999.2	986.3	968.5	952.1	932.6	920.3	909.5	891.4	872.5	861.0
10°	1029.3	1015.5	999.0	977.1	957.1	933.5	917.0	900.4	879.3	856.8	842.7
12.5°	1046.4	1027.9	1011.6	983.6	959.9	930.4	910.8	887.5	865.3	838.5	824.6
15°	1087.3	1053.2	1022.2	990.5	961.3	920.1	898.3	867.0	837.7	804.6	788.8
17.5°	1118.9	1080.5	1031.8	991.6	957.4	911.8	879.8	842.3	807.7	769.9	748.4
20°	1137.0	1093.0	1040.5	992.7	951.8	899.8	864.9	826.5	786.0	743.4	720.2
22.5°	1147.6	1101.5	1049.5	988.4	940.6	889.9	846.0	804.0	762.9	717.0	692.6
25°	1151.0	1108.8	1053.9	984.9	926.4	869.1	816.2	775.4	725.9	682.9	647.3
27.5°	1134.3	1104.0	1051.2	978.3	910.2	843.1	784.3	738.0	685.6	639.0	603.2
30°	1113.7	1096.1	1044.7	971.5	897.2	825.1	760.3	707.8	655.8	608.6	572.0
32.5°	1081.9	1078.1	1032.9	962.0	883.4	802.3	735.3	682.2	624.5	578.2	543.3
35°	1019.4	1036.3	1007.8	940.6	857.4	769.9	697.3	636.8	576.9	532.5	499.8
37.5°	935.7	977.6	970.2	909.2	822.4	734.5	654.4	591.2	534.1	489.4	457.2
40°	877.9	931.4	939.1	885.2	797.7	707.2	622.4	559.3	503.7	462.9	430.5
42.5°	816.0	878.4	899.8	856.6	770.6	678.4	593.6	528.4	473.3	433.6	404.9
45°	712.1	794.8	833.2	808.5	725.5	631.1	543.8	477.7	427.7	390.4	368.2
47.5°	615.0	705.4	757.1	748.3	675.2	581.8	495.6	432.1	383.4	353.6	333.8
50°	546.3	639.2	701.5	704.4	639.2	546.7	460.1	400.2	355.5	327.7	311.5
52.5°	486.6	575.3	643.3	658.2	599.0	510.0	428.2	368.7	329.3	303.8	289.3
55°	408.7	483.6	559.0	586.4	538.9	454.4	378.7	326.3	289.4	271.7	259.1
57.5°	339.8	402.3	471.8	502.2	472.9	400.6	329.6	284.1	254.1	238.7	228.9
60°	303.4	352.7	414.6	450.9	425.6	361.2	299.2	255.9	231.3	217.5	208.4
62.5°	269.7	313.3	365.6	398.8	385.0	324.2	268.8	230.5	209.3	196.4	189.8
65°	222.4	256.9	297.5	328.1	319.0	272.8	227.4	194.6	177.8	167.6	162.3
67.5°	183.1	208.1	236.2	263.0	255.6	222.9	186.5	161.0	148.4	139.6	136.5
70°	158.4	177.4	202.4	223.9	217.9	191.1	162.3	140.4	129.5	122.2	118.9
72.5°	134.8	150.3	169.5	187.0	182.9	160.7	136.7	120.2	111.8	105.0	102.4
75°	101.7	113.7	125.4	137.0	135.9	118.7	104.5	91.9	85.2	79.9	78.9
77.5°	75.1	81.8	89.7	96.6	94.7	84.8	73.8	66.5	61.6	58.1	57.5
80°	57.4	61.3	66.9	71.8	69.4	65.1	56.4	51.1	47.5	44.0	42.6
82.5°	41.6	45.5	48.8	51.6	49.7	45.7	40.2	36.7	34.6	32.1	31.6
85°	21.9	23.9	25.4	26.0	25.4	22.9	20.5	19.0	17.2	16.2	15.8
87.5°	11.8	11.4	11.0	11.2	9.8	9.3	7.7	6.4	6.6	6.8	6.7
90°	16.5	14.7	12.9	10.8	8.4	5.9	3.5	1.0	3.5	5.9	8.4
92.5°	21.5	20.5	19.7	19.3	19.6	19.8	20.0	20.3	20.0	19.8	19.6
95°	36.0	34.4	32.8	35.7	43.1	50.4	57.8	65.1	57.8	50.4	43.1
97.5°	45.1	41.5	37.9	46.5	67.1	87.8	108.6	129.2	108.6	87.8	67.1
100°	49.6	45.7	41.9	55.3	85.9	116.3	146.8	177.4	146.8	116.3	85.9
102.5°	122.1	153.7	185.4	204.4	210.8	217.4	223.8	230.3	223.8	217.4	210.8
105°	182.7	243.5	304.3	331.3	324.6	317.9	311.3	304.6	311.3	317.9	324.6
107.5°	231.4	304.3	377.2	410.9	405.5	400.1	394.7	389.4	394.7	400.1	405.5
110°	304.1	368.3	432.7	462.6	457.9	453.3	448.6	443.8	448.6	453.3	457.9



TEST NUMBER: P331321-830

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	474.1	489.9	505.9	511.7	507.6	503.4	499.4	495.2	499.4	503.4	507.6
115°	607.1	601.5	596.0	591.3	587.5	583.7	579.9	576.2	579.9	583.7	587.5
117.5°	677.1	673.3	669.4	665.4	661.2	657.0	652.7	648.5	652.7	657.0	661.2
120°	726.4	722.5	718.4	714.7	711.4	708.0	704.7	701.3	704.7	708.0	711.4
122.5°	773.0	768.6	764.3	760.3	756.9	753.3	749.8	746.3	749.8	753.3	756.9
125°	838.2	834.0	829.7	826.1	823.3	820.4	817.5	814.6	817.5	820.4	823.3
127.5°	898.8	895.7	892.5	889.4	886.2	883.0	879.8	876.6	879.8	883.0	886.2
130°	937.9	935.5	933.0	930.0	926.5	922.9	919.4	915.8	919.4	922.9	926.5
132.5°	975.6	973.2	970.7	968.0	965.0	962.0	958.9	955.8	958.9	962.0	965.0
135°	1029.0	1027.0	1025.0	1022.2	1018.7	1015.1	1011.5	1008.0	1011.5	1015.1	1018.7
137.5°	1077.6	1075.3	1073.0	1070.6	1068.2	1065.6	1063.2	1060.6	1063.2	1065.6	1068.2
140°	1109.3	1106.8	1104.4	1102.3	1100.5	1098.7	1096.9	1095.1	1096.9	1098.7	1100.5
142.5°	1138.2	1135.4	1132.7	1130.4	1128.8	1127.2	1125.6	1124.0	1125.6	1127.2	1128.8
145°	1177.7	1173.9	1170.2	1168.4	1168.7	1168.8	1169.0	1169.3	1169.0	1168.8	1168.7
147.5°	1214.3	1210.6	1206.8	1205.4	1206.3	1207.1	1208.0	1208.8	1208.0	1207.1	1206.3
150°	1236.3	1232.8	1229.2	1228.2	1229.7	1231.3	1232.8	1234.4	1232.8	1231.3	1229.7
152.5°	1256.7	1253.3	1249.9	1249.2	1250.8	1252.5	1254.3	1256.0	1254.3	1252.5	1250.8
155°	1285.2	1282.5	1279.9	1279.5	1281.5	1283.6	1285.5	1287.5	1285.5	1283.6	1281.5
157.5°	1309.2	1307.4	1305.5	1305.4	1307.1	1308.8	1310.5	1312.2	1310.5	1308.8	1307.1
160°	1323.9	1322.6	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6	1325.3	1323.9	1322.6
162.5°	1336.3	1335.1	1334.0	1334.1	1335.4	1336.7	1338.1	1339.4	1338.1	1336.7	1335.4
165°	1352.4	1351.6	1350.9	1351.3	1352.6	1354.0	1355.3	1356.7	1355.3	1354.0	1352.6
167.5°	1365.0	1364.4	1363.8	1364.1	1365.5	1366.8	1368.2	1369.5	1368.2	1366.8	1365.5
170°	1371.8	1371.4	1370.9	1371.4	1372.7	1374.0	1375.4	1376.7	1375.4	1374.0	1372.7
172.5°	1376.6	1376.2	1375.7	1376.2	1377.5	1378.8	1380.2	1381.5	1380.2	1378.8	1377.5
175°	1381.9	1381.4	1380.9	1381.5	1383.1	1384.6	1386.2	1387.7	1386.2	1384.6	1383.1
177.5°	1383.6	1383.4	1383.2	1383.7	1385.0	1386.2	1387.5	1388.7	1387.5	1386.2	1385.0
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331321-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	903.8	902.1	896.2	893.1	888.1	883.3	880.1	881.6	882.7	882.1	881.3
5°	877.9	871.2	861.0	852.2	845.8	834.2	829.3	826.9	824.7	822.3	819.8
7.5°	847.1	836.5	821.9	809.4	797.5	783.1	774.9	769.9	764.8	759.2	754.3
10°	825.1	810.3	794.8	777.2	763.2	750.1	738.5	730.8	723.7	717.0	712.1
12.5°	802.0	784.9	765.8	741.8	726.2	707.6	705.9	692.2	681.2	677.0	671.3
15°	765.3	741.3	717.0	688.5	676.2	659.3	648.8	638.2	628.7	622.0	620.2
17.5°	723.5	692.5	668.4	647.9	627.7	610.4	600.7	592.2	584.4	575.4	574.3
20°	691.6	665.0	638.6	620.6	599.8	582.2	570.2	561.8	555.1	549.8	545.3
22.5°	661.6	632.3	608.1	588.4	568.0	553.7	544.3	536.2	530.7	524.8	520.5
25°	613.2	590.3	563.9	541.8	524.8	515.7	507.9	500.9	497.4	493.5	488.6
27.5°	570.9	545.4	520.8	503.6	488.7	480.6	475.1	470.3	467.0	464.8	461.9
30°	541.0	515.3	496.0	479.1	466.7	458.6	455.2	452.3	448.5	447.0	445.6
32.5°	512.3	489.2	472.6	458.0	446.2	440.9	437.7	435.2	432.2	430.7	427.9
35°	471.6	452.3	436.1	428.0	418.5	414.0	411.5	407.9	405.2	403.8	403.4
37.5°	433.5	416.6	406.0	395.6	391.5	388.7	385.4	383.0	382.1	381.9	381.5
40°	408.7	394.9	385.4	377.0	375.2	371.0	368.2	366.1	366.1	366.5	366.1
42.5°	386.2	373.8	365.4	358.2	356.1	353.5	350.7	350.6	351.2	352.3	351.2
45°	352.0	343.2	337.2	333.7	329.8	327.3	327.0	328.1	328.4	328.8	329.8
47.5°	320.6	314.7	309.3	305.5	303.8	303.3	302.9	304.7	306.4	307.1	308.7
50°	302.0	295.3	290.8	288.3	286.9	286.2	286.9	289.0	290.4	292.2	293.2
52.5°	281.2	276.4	273.3	271.4	270.8	271.3	271.4	273.8	276.1	276.6	277.2
55°	252.4	248.8	248.2	245.0	246.4	246.0	247.8	249.2	251.3	253.4	253.8
57.5°	223.7	220.8	219.0	219.2	219.6	221.2	222.6	225.2	227.4	229.6	229.9
60°	204.5	203.1	202.1	202.1	202.7	204.9	206.6	209.1	210.5	211.9	212.9
62.5°	187.1	185.7	184.5	185.1	187.0	188.2	190.3	191.6	193.0	194.4	194.9
65°	159.5	158.7	159.9	160.5	160.9	162.6	165.1	166.2	167.6	168.2	170.7
67.5°	134.0	134.2	134.0	135.1	137.0	137.5	139.8	142.3	142.6	143.9	145.5
70°	116.9	117.5	118.3	118.9	120.7	121.4	123.2	124.2	125.6	126.7	127.8
72.5°	101.1	101.2	102.0	101.8	103.3	104.8	106.3	107.4	108.8	110.1	111.1
75°	77.8	77.8	78.5	78.9	80.6	82.4	82.0	82.8	84.2	85.6	86.2
77.5°	56.8	56.1	56.8	57.1	57.7	59.2	59.5	60.5	62.1	61.6	62.4
80°	43.3	42.2	43.3	43.6	43.6	45.4	45.4	46.1	47.1	46.1	47.1
82.5°	30.9	30.4	31.2	31.3	31.9	31.9	32.4	32.6	33.6	33.2	33.6
85°	15.5	15.2	15.5	15.2	15.5	15.8	15.8	15.5	15.5	16.2	15.2
87.5°	7.0	7.1	7.2	7.5	7.6	7.6	7.6	7.8	8.0	7.7	7.9
90°	10.8	12.9	14.7	16.5	18.3	20.1	21.1	22.2	23.4	24.5	25.3
92.5°	19.3	19.7	20.5	21.5	22.3	23.3	23.8	24.4	25.0	25.5	26.0
95°	35.7	32.8	34.4	36.0	37.5	39.1	40.2	41.3	42.4	43.5	44.0
97.5°	46.5	37.9	41.5	45.1	48.7	52.3	53.2	54.1	55.0	55.9	56.5
100°	55.3	41.9	45.7	49.6	53.3	57.1	58.9	60.7	62.5	64.3	65.3
102.5°	204.4	185.4	153.7	122.1	90.4	58.7	61.1	63.3	65.7	68.0	69.5
105°	331.3	304.3	243.5	182.7	121.9	61.1	63.5	66.0	68.4	70.9	72.6
107.5°	410.9	377.2	304.3	231.4	158.4	85.6	83.0	80.6	78.0	75.6	74.8
110°	462.6	432.7	368.3	304.1	239.7	175.3	153.1	130.8	108.6	86.2	75.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	511.7	505.9	489.9	474.1	458.2	442.2	361.1	279.8	198.6	117.3	77.1
115°	591.3	596.0	601.5	607.1	612.7	618.2	515.1	412.0	309.0	205.9	146.3
117.5°	665.4	669.4	673.3	677.1	680.9	684.8	659.8	634.9	609.9	585.0	546.2
120°	714.7	718.4	722.5	726.4	730.5	734.4	737.1	739.8	742.4	745.2	731.4
122.5°	760.3	764.3	768.6	773.0	777.4	781.7	783.3	784.9	786.6	788.2	786.0
125°	826.1	829.7	834.0	838.2	842.4	846.7	848.2	849.8	851.3	852.9	854.0
127.5°	889.4	892.5	895.7	898.8	902.0	905.2	907.5	909.7	912.0	914.3	915.5
130°	930.0	933.0	935.5	937.9	940.4	942.8	945.3	947.7	950.2	952.6	953.8
132.5°	968.0	970.7	973.2	975.6	978.1	980.5	982.6	984.7	986.8	988.9	989.9
135°	1022.2	1025.0	1027.0	1029.0	1031.0	1033.0	1035.3	1037.5	1039.7	1041.9	1042.8
137.5°	1070.6	1073.0	1075.3	1077.6	1079.9	1082.1	1084.3	1086.5	1088.6	1090.8	1091.6
140°	1102.3	1104.4	1106.8	1109.3	1111.7	1114.2	1116.2	1118.2	1120.2	1122.2	1122.7
142.5°	1130.4	1132.7	1135.4	1138.2	1141.0	1143.9	1145.7	1147.5	1149.3	1151.1	1151.5
145°	1168.4	1170.2	1173.9	1177.7	1181.6	1185.3	1186.8	1188.5	1190.0	1191.6	1191.8
147.5°	1205.4	1206.8	1210.6	1214.3	1218.0	1221.8	1222.9	1224.1	1225.3	1226.4	1226.5
150°	1228.2	1229.2	1232.8	1236.3	1239.9	1243.4	1244.8	1246.1	1247.5	1248.8	1248.9
152.5°	1249.2	1249.9	1253.3	1256.7	1260.1	1263.5	1264.8	1266.1	1267.5	1268.9	1268.8
155°	1279.5	1279.9	1282.5	1285.2	1287.9	1290.5	1291.8	1293.2	1294.6	1295.9	1295.6
157.5°	1305.4	1305.5	1307.4	1309.2	1311.1	1313.0	1314.5	1316.0	1317.5	1319.0	1318.9
160°	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6	1327.9	1329.3	1330.6	1331.9	1331.8
162.5°	1334.1	1334.0	1335.1	1336.3	1337.5	1338.6	1340.1	1341.6	1343.1	1344.7	1344.4
165°	1351.3	1350.9	1351.6	1352.4	1353.0	1353.7	1355.2	1356.8	1358.3	1359.9	1359.9
167.5°	1364.1	1363.8	1364.4	1365.0	1365.6	1366.3	1367.8	1369.4	1370.9	1372.5	1372.2
170°	1371.4	1370.9	1371.4	1371.8	1372.2	1372.7	1374.2	1375.8	1377.3	1378.9	1378.7
172.5°	1376.2	1375.7	1376.2	1376.6	1377.1	1377.5	1379.0	1380.6	1382.1	1383.7	1383.6
175°	1381.5	1380.9	1381.4	1381.9	1382.2	1382.7	1384.3	1385.8	1387.4	1388.9	1388.6
177.5°	1383.7	1383.2	1383.4	1383.6	1383.7	1383.9	1385.2	1386.4	1387.6	1388.9	1388.7
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	878.4	877.9	877.9	875.3	877.9	877.9	878.4	881.3	882.1	882.7	881.6
5°	814.9	813.8	812.1	813.8	812.1	813.8	814.9	819.8	822.3	824.7	826.9
7.5°	752.1	747.8	747.2	743.0	747.2	747.8	752.1	754.3	759.2	764.8	769.9
10°	706.2	703.3	702.9	696.3	702.9	703.3	706.2	712.1	717.0	723.7	730.8
12.5°	671.2	664.4	665.8	661.9	665.8	664.4	671.2	671.3	677.0	681.2	692.2
15°	610.7	610.7	609.4	603.3	609.4	610.7	610.7	620.2	622.0	628.7	638.2
17.5°	567.3	566.6	563.2	564.9	563.2	566.6	567.3	574.3	575.4	584.4	592.2
20°	541.4	539.2	535.1	535.1	535.1	539.2	541.4	545.3	549.8	555.1	561.8
22.5°	516.9	516.7	512.3	513.7	512.3	516.7	516.9	520.5	524.8	530.7	536.2
25°	488.2	485.4	483.3	484.4	483.3	485.4	488.2	488.6	493.5	497.4	500.9
27.5°	461.1	459.5	459.4	456.5	459.4	459.5	461.1	461.9	464.8	467.0	470.3
30°	445.3	441.8	442.4	440.7	442.4	441.8	445.3	445.6	447.0	448.5	452.3
32.5°	427.3	426.0	425.3	423.8	425.3	426.0	427.3	427.9	430.7	432.2	435.2
35°	402.7	403.0	401.2	402.0	401.2	403.0	402.7	403.4	403.8	405.2	407.9
37.5°	381.3	382.4	381.5	381.7	381.5	382.4	381.3	381.5	381.9	382.1	383.0
40°	367.1	367.1	367.1	368.2	367.1	367.1	367.1	366.1	366.5	366.1	366.1
42.5°	353.6	353.1	352.5	352.4	352.5	353.1	353.6	351.2	352.3	351.2	350.6
45°	330.5	331.6	332.0	330.2	332.0	331.6	330.5	329.8	328.8	328.4	328.1
47.5°	309.6	309.7	309.6	311.1	309.6	309.7	309.6	308.7	307.1	306.4	304.7
50°	295.0	294.3	295.0	294.3	295.0	294.3	295.0	293.2	292.2	290.4	289.0
52.5°	279.5	279.7	279.2	279.1	279.2	279.7	279.5	277.2	276.6	276.1	273.8
55°	255.2	255.9	255.5	255.5	255.5	255.9	255.2	253.8	253.4	251.3	249.2
57.5°	230.1	230.7	231.2	229.6	231.2	230.7	230.1	229.9	229.6	227.4	225.2
60°	212.6	214.3	214.1	213.3	214.1	214.3	212.6	212.9	211.9	210.5	209.1
62.5°	196.5	197.2	197.1	197.0	197.1	197.2	196.5	194.9	194.4	193.0	191.6
65°	171.7	172.5	171.4	172.5	171.4	172.5	171.7	170.7	168.2	167.6	166.2
67.5°	145.1	145.3	146.1	146.6	146.1	145.3	145.1	145.5	143.9	142.6	142.3
70°	128.5	128.1	129.2	130.3	129.2	128.1	128.5	127.8	126.7	125.6	124.2
72.5°	111.0	111.8	111.4	112.3	111.4	111.8	111.0	111.1	110.1	108.8	107.4
75°	85.6	86.6	86.2	87.3	86.2	86.6	85.6	86.2	85.6	84.2	82.8
77.5°	61.8	61.9	61.8	62.4	61.8	61.9	61.8	62.4	61.6	62.1	60.5
80°	47.1	46.5	45.7	47.1	45.7	46.5	47.1	47.1	46.1	47.1	46.1
82.5°	32.8	33.3	32.5	32.5	32.5	33.3	32.8	33.6	33.2	33.6	32.6
85°	15.2	14.8	14.0	14.0	14.0	14.8	15.2	15.2	16.2	15.5	15.5
87.5°	7.9	7.7	7.8	7.6	7.8	7.7	7.9	7.9	7.7	8.0	7.8
90°	25.7	26.2	26.6	27.1	26.6	26.2	25.7	25.3	24.5	23.4	22.2
92.5°	26.3	26.5	26.8	27.1	26.8	26.5	26.3	26.0	25.5	25.0	24.4
95°	43.7	43.5	43.3	43.1	43.3	43.5	43.7	44.0	43.5	42.4	41.3
97.5°	56.7	57.0	57.2	57.5	57.2	57.0	56.7	56.5	55.9	55.0	54.1
100°	65.8	66.3	66.7	67.1	66.7	66.3	65.8	65.3	64.3	62.5	60.7
102.5°	70.0	70.7	71.4	71.9	71.4	70.7	70.0	69.5	68.0	65.7	63.3
105°	73.5	74.4	75.2	76.2	75.2	74.4	73.5	72.6	70.9	68.4	66.0
107.5°	75.7	76.5	77.5	78.3	77.5	76.5	75.7	74.8	75.6	78.0	80.6
110°	76.4	77.4	78.2	79.2	78.2	77.4	76.4	75.6	86.2	108.6	130.8



TEST NUMBER: P331321-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	77.9	78.5	79.3	79.9	79.3	78.5	77.9	77.1	117.3	198.6	279.8
115°	130.3	114.2	98.2	82.2	98.2	114.2	130.3	146.3	205.9	309.0	412.0
117.5°	493.5	440.8	388.1	335.5	388.1	440.8	493.5	546.2	585.0	609.9	634.9
120°	701.3	671.3	641.2	611.2	641.2	671.3	701.3	731.4	745.2	742.4	739.8
122.5°	780.2	774.4	768.5	762.7	768.5	774.4	780.2	786.0	788.2	786.6	784.9
125°	854.7	855.4	856.0	856.7	856.0	855.4	854.7	854.0	852.9	851.3	849.8
127.5°	915.6	915.8	915.9	916.0	915.9	915.8	915.6	915.5	914.3	912.0	909.7
130°	953.6	953.3	953.1	952.9	953.1	953.3	953.6	953.8	952.6	950.2	947.7
132.5°	989.6	989.4	989.2	988.9	989.2	989.4	989.6	989.9	988.9	986.8	984.7
135°	1042.4	1041.9	1041.5	1041.0	1041.5	1041.9	1042.4	1042.8	1041.9	1039.7	1037.5
137.5°	1090.8	1090.1	1089.3	1088.5	1089.3	1090.1	1090.8	1091.6	1090.8	1088.6	1086.5
140°	1121.5	1120.4	1119.3	1118.2	1119.3	1120.4	1121.5	1122.7	1122.2	1120.2	1118.2
142.5°	1150.4	1149.2	1148.2	1147.1	1148.2	1149.2	1150.4	1151.5	1151.1	1149.3	1147.5
145°	1190.7	1189.6	1188.5	1187.3	1188.5	1189.6	1190.7	1191.8	1191.6	1190.0	1188.5
147.5°	1225.6	1224.6	1223.7	1222.8	1223.7	1224.6	1225.6	1226.5	1226.4	1225.3	1224.1
150°	1247.7	1246.7	1245.6	1244.4	1245.6	1246.7	1247.7	1248.9	1248.8	1247.5	1246.1
152.5°	1267.2	1265.8	1264.3	1262.9	1264.3	1265.8	1267.2	1268.8	1268.9	1267.5	1266.1
155°	1293.8	1292.1	1290.3	1288.5	1290.3	1292.1	1293.8	1295.6	1295.9	1294.6	1293.2
157.5°	1317.2	1315.4	1313.7	1311.9	1313.7	1315.4	1317.2	1318.9	1319.0	1317.5	1316.0
160°	1330.3	1328.7	1327.2	1325.6	1327.2	1328.7	1330.3	1331.8	1331.9	1330.6	1329.3
162.5°	1342.6	1340.7	1338.7	1336.8	1338.7	1340.7	1342.6	1344.4	1344.7	1343.1	1341.6
165°	1358.3	1356.8	1355.2	1353.7	1355.2	1356.8	1358.3	1359.9	1359.9	1358.3	1356.8
167.5°	1370.3	1368.3	1366.3	1364.2	1366.3	1368.3	1370.3	1372.2	1372.5	1370.9	1369.4
170°	1376.7	1374.7	1372.7	1370.6	1372.7	1374.7	1376.7	1378.7	1378.9	1377.3	1375.8
172.5°	1381.5	1379.5	1377.5	1375.5	1377.5	1379.5	1381.5	1383.6	1383.7	1382.1	1380.6
175°	1386.4	1384.1	1382.0	1379.7	1382.0	1384.1	1386.4	1388.6	1388.9	1387.4	1385.8
177.5°	1387.1	1385.5	1383.9	1382.3	1383.9	1385.5	1387.1	1388.7	1388.9	1387.6	1386.4
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	880.1	883.3	888.1	893.1	896.2	902.1	903.8	906.6	909.2	915.0	921.2
5°	829.3	834.2	845.8	852.2	861.0	871.2	877.9	885.0	892.7	906.1	918.4
7.5°	774.9	783.1	797.5	809.4	821.9	836.5	847.1	861.0	872.5	891.4	909.5
10°	738.5	750.1	763.2	777.2	794.8	810.3	825.1	842.7	856.8	879.3	900.4
12.5°	705.9	707.6	726.2	741.8	765.8	784.9	802.0	824.6	838.5	865.3	887.5
15°	648.8	659.3	676.2	688.5	717.0	741.3	765.3	788.8	804.6	837.7	867.0
17.5°	600.7	610.4	627.7	647.9	668.4	692.5	723.5	748.4	769.9	807.7	842.3
20°	570.2	582.2	599.8	620.6	638.6	665.0	691.6	720.2	743.4	786.0	826.5
22.5°	544.3	553.7	568.0	588.4	608.1	632.3	661.6	692.6	717.0	762.9	804.0
25°	507.9	515.7	524.8	541.8	563.9	590.3	613.2	647.3	682.9	725.9	775.4
27.5°	475.1	480.6	488.7	503.6	520.8	545.4	570.9	603.2	639.0	685.6	738.0
30°	455.2	458.6	466.7	479.1	496.0	515.3	541.0	572.0	608.6	655.8	707.8
32.5°	437.7	440.9	446.2	458.0	472.6	489.2	512.3	543.3	578.2	624.5	682.2
35°	411.5	414.0	418.5	428.0	436.1	452.3	471.6	499.8	532.5	576.9	636.8
37.5°	385.4	388.7	391.5	395.6	406.0	416.6	433.5	457.2	489.4	534.1	591.2
40°	368.2	371.0	375.2	377.0	385.4	394.9	408.7	430.5	462.9	503.7	559.3
42.5°	350.7	353.5	356.1	358.2	365.4	373.8	386.2	404.9	433.6	473.3	528.4
45°	327.0	327.3	329.8	333.7	337.2	343.2	352.0	368.2	390.4	427.7	477.7
47.5°	302.9	303.3	303.8	305.5	309.3	314.7	320.6	333.8	353.6	383.4	432.1
50°	286.9	286.2	286.9	288.3	290.8	295.3	302.0	311.5	327.7	355.5	400.2
52.5°	271.4	271.3	270.8	271.4	273.3	276.4	281.2	289.3	303.8	329.3	368.7
55°	247.8	246.0	246.4	245.0	248.2	248.8	252.4	259.1	271.7	289.4	326.3
57.5°	222.6	221.2	219.6	219.2	219.0	220.8	223.7	228.9	238.7	254.1	284.1
60°	206.6	204.9	202.7	202.1	202.1	203.1	204.5	208.4	217.5	231.3	255.9
62.5°	190.3	188.2	187.0	185.1	184.5	185.7	187.1	189.8	196.4	209.3	230.5
65°	165.1	162.6	160.9	160.5	159.9	158.7	159.5	162.3	167.6	177.8	194.6
67.5°	139.8	137.5	137.0	135.1	134.0	134.2	134.0	136.5	139.6	148.4	161.0
70°	123.2	121.4	120.7	118.9	118.3	117.5	116.9	118.9	122.2	129.5	140.4
72.5°	106.3	104.8	103.3	101.8	102.0	101.2	101.1	102.4	105.0	111.8	120.2
75°	82.0	82.4	80.6	78.9	78.5	77.8	77.8	78.9	79.9	85.2	91.9
77.5°	59.5	59.2	57.7	57.1	56.8	56.1	56.8	57.5	58.1	61.6	66.5
80°	45.4	45.4	43.6	43.6	43.3	42.2	43.3	42.6	44.0	47.5	51.1
82.5°	32.4	31.9	31.9	31.3	31.2	30.4	30.9	31.6	32.1	34.6	36.7
85°	15.8	15.8	15.5	15.2	15.5	15.2	15.5	15.8	16.2	17.2	19.0
87.5°	7.6	7.6	7.6	7.5	7.2	7.1	7.0	6.7	6.8	6.6	6.4
90°	21.1	20.1	18.3	16.5	14.7	12.9	10.8	8.4	5.9	3.5	1.0
92.5°	23.8	23.3	22.3	21.5	20.5	19.7	19.3	19.6	19.8	20.0	20.3
95°	40.2	39.1	37.5	36.0	34.4	32.8	35.7	43.1	50.4	57.8	65.1
97.5°	53.2	52.3	48.7	45.1	41.5	37.9	46.5	67.1	87.8	108.6	129.2
100°	58.9	57.1	53.3	49.6	45.7	41.9	55.3	85.9	116.3	146.8	177.4
102.5°	61.1	58.7	90.4	122.1	153.7	185.4	204.4	210.8	217.4	223.8	230.3
105°	63.5	61.1	121.9	182.7	243.5	304.3	331.3	324.6	317.9	311.3	304.6
107.5°	83.0	85.6	158.4	231.4	304.3	377.2	410.9	405.5	400.1	394.7	389.4
110°	153.1	175.3	239.7	304.1	368.3	432.7	462.6	457.9	453.3	448.6	443.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	361.1	442.2	458.2	474.1	489.9	505.9	511.7	507.6	503.4	499.4	495.2
115°	515.1	618.2	612.7	607.1	601.5	596.0	591.3	587.5	583.7	579.9	576.2
117.5°	659.8	684.8	680.9	677.1	673.3	669.4	665.4	661.2	657.0	652.7	648.5
120°	737.1	734.4	730.5	726.4	722.5	718.4	714.7	711.4	708.0	704.7	701.3
122.5°	783.3	781.7	777.4	773.0	768.6	764.3	760.3	756.9	753.3	749.8	746.3
125°	848.2	846.7	842.4	838.2	834.0	829.7	826.1	823.3	820.4	817.5	814.6
127.5°	907.5	905.2	902.0	898.8	895.7	892.5	889.4	886.2	883.0	879.8	876.6
130°	945.3	942.8	940.4	937.9	935.5	933.0	930.0	926.5	922.9	919.4	915.8
132.5°	982.6	980.5	978.1	975.6	973.2	970.7	968.0	965.0	962.0	958.9	955.8
135°	1035.3	1033.0	1031.0	1029.0	1027.0	1025.0	1022.2	1018.7	1015.1	1011.5	1008.0
137.5°	1084.3	1082.1	1079.9	1077.6	1075.3	1073.0	1070.6	1068.2	1065.6	1063.2	1060.6
140°	1116.2	1114.2	1111.7	1109.3	1106.8	1104.4	1102.3	1100.5	1098.7	1096.9	1095.1
142.5°	1145.7	1143.9	1141.0	1138.2	1135.4	1132.7	1130.4	1128.8	1127.2	1125.6	1124.0
145°	1186.8	1185.3	1181.6	1177.7	1173.9	1170.2	1168.4	1168.7	1168.8	1169.0	1169.3
147.5°	1222.9	1221.8	1218.0	1214.3	1210.6	1206.8	1205.4	1206.3	1207.1	1208.0	1208.8
150°	1244.8	1243.4	1239.9	1236.3	1232.8	1229.2	1228.2	1229.7	1231.3	1232.8	1234.4
152.5°	1264.8	1263.5	1260.1	1256.7	1253.3	1249.9	1249.2	1250.8	1252.5	1254.3	1256.0
155°	1291.8	1290.5	1287.9	1285.2	1282.5	1279.9	1279.5	1281.5	1283.6	1285.5	1287.5
157.5°	1314.5	1313.0	1311.1	1309.2	1307.4	1305.5	1305.4	1307.1	1308.8	1310.5	1312.2
160°	1327.9	1326.6	1325.3	1323.9	1322.6	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6
162.5°	1340.1	1338.6	1337.5	1336.3	1335.1	1334.0	1334.1	1335.4	1336.7	1338.1	1339.4
165°	1355.2	1353.7	1353.0	1352.4	1351.6	1350.9	1351.3	1352.6	1354.0	1355.3	1356.7
167.5°	1367.8	1366.3	1365.6	1365.0	1364.4	1363.8	1364.1	1365.5	1366.8	1368.2	1369.5
170°	1374.2	1372.7	1372.2	1371.8	1371.4	1370.9	1371.4	1372.7	1374.0	1375.4	1376.7
172.5°	1379.0	1377.5	1377.1	1376.6	1376.2	1375.7	1376.2	1377.5	1378.8	1380.2	1381.5
175°	1384.3	1382.7	1382.2	1381.9	1381.4	1380.9	1381.5	1383.1	1384.6	1386.2	1387.7
177.5°	1385.2	1383.9	1383.7	1383.6	1383.4	1383.2	1383.7	1385.0	1386.2	1387.5	1388.7
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331321-830
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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	920.7	922.1	926.6	931.1	936.1	937.5	939.8	937.8	937.3	942.6	946.6
5°	923.3	929.6	942.0	953.2	962.7	969.4	976.5	979.3	984.6	991.9	1001.1
7.5°	920.3	932.6	952.1	968.5	986.3	999.2	1009.3	1017.9	1028.2	1042.3	1057.5
10°	917.0	933.5	957.1	977.1	999.0	1015.5	1029.3	1042.6	1058.1	1077.5	1097.5
12.5°	910.8	930.4	959.9	983.6	1011.6	1027.9	1046.4	1075.3	1091.9	1118.9	1147.1
15°	898.3	920.1	961.3	990.5	1022.2	1053.2	1087.3	1114.7	1142.3	1158.1	1197.9
17.5°	879.8	911.8	957.4	991.6	1031.8	1080.5	1118.9	1150.1	1181.8	1207.4	1227.4
20°	864.9	899.8	951.8	992.7	1040.5	1093.0	1137.0	1168.7	1196.1	1217.6	1229.9
22.5°	846.0	889.9	940.6	988.4	1049.5	1101.5	1147.6	1172.6	1195.5	1206.0	1210.7
25°	816.2	869.1	926.4	984.9	1053.9	1108.8	1151.0	1166.2	1172.9	1162.6	1145.8
27.5°	784.3	843.1	910.2	978.3	1051.2	1104.0	1134.3	1131.9	1120.6	1087.5	1061.1
30°	760.3	825.1	897.2	971.5	1044.7	1096.1	1113.7	1096.1	1070.4	1033.5	995.8
32.5°	735.3	802.3	883.4	962.0	1032.9	1078.1	1081.9	1051.6	1011.8	969.9	922.8
35°	697.3	769.9	857.4	940.6	1007.8	1036.3	1019.4	965.9	918.7	861.4	797.3
37.5°	654.4	734.5	822.4	909.2	970.2	977.6	935.7	879.3	812.8	745.4	670.0
40°	622.4	707.2	797.7	885.2	939.1	931.4	877.9	816.0	736.7	654.4	584.3
42.5°	593.6	678.4	770.6	856.6	899.8	878.4	816.0	739.9	654.8	577.2	513.1
45°	543.8	631.1	725.5	808.5	833.2	794.8	712.1	627.6	543.8	479.1	428.4
47.5°	495.6	581.8	675.2	748.3	757.1	705.4	615.0	528.1	456.1	403.3	367.6
50°	460.1	546.7	639.2	704.4	701.5	639.2	546.3	463.5	403.4	360.8	336.9
52.5°	428.2	510.0	599.0	658.2	643.3	575.3	486.6	413.2	363.7	330.4	308.7
55°	378.7	454.4	538.9	586.4	559.0	483.6	408.7	349.5	312.9	287.9	271.1
57.5°	329.6	400.6	472.9	502.2	471.8	402.3	339.8	296.9	269.4	250.8	239.9
60°	299.2	361.2	425.6	450.9	414.6	352.7	303.4	265.0	242.9	227.7	217.9
62.5°	268.8	324.2	385.0	398.8	365.6	313.3	269.7	237.7	219.5	206.0	196.8
65°	227.4	272.8	319.0	328.1	297.5	256.9	222.4	201.7	185.5	175.7	168.2
67.5°	186.5	222.9	255.6	263.0	236.2	208.1	183.1	165.1	154.1	145.9	139.7
70°	162.3	191.1	217.9	223.9	202.4	177.4	158.4	143.9	134.1	127.1	121.1
72.5°	136.7	160.7	182.9	187.0	169.5	150.3	134.8	123.4	114.7	110.2	104.4
75°	104.5	118.7	135.9	137.0	125.4	113.7	101.7	94.3	89.7	84.2	81.3
77.5°	73.8	84.8	94.7	96.6	89.7	81.8	75.1	69.3	65.4	62.8	60.2
80°	56.4	65.1	69.4	71.8	66.9	61.3	57.4	53.5	51.1	49.3	47.5
82.5°	40.2	45.7	49.7	51.6	48.8	45.5	41.6	39.4	37.5	36.0	35.4
85°	20.5	22.9	25.4	26.0	25.4	23.9	21.9	21.9	20.7	20.5	20.5
87.5°	7.7	9.3	9.8	11.2	11.0	11.4	11.8	11.8	11.9	11.9	11.8
90°	3.5	5.9	8.4	10.8	12.9	14.7	16.5	18.3	20.1	21.1	22.2
92.5°	20.0	19.8	19.6	19.3	19.7	20.5	21.5	22.3	23.3	23.8	24.4
95°	57.8	50.4	43.1	35.7	32.8	34.4	36.0	37.5	39.1	40.2	41.3
97.5°	108.6	87.8	67.1	46.5	37.9	41.5	45.1	48.7	52.3	53.2	54.1
100°	146.8	116.3	85.9	55.3	41.9	45.7	49.6	53.3	57.1	58.9	60.7
102.5°	223.8	217.4	210.8	204.4	185.4	153.7	122.1	90.4	58.7	61.1	63.3
105°	311.3	317.9	324.6	331.3	304.3	243.5	182.7	121.9	61.1	63.5	66.0
107.5°	394.7	400.1	405.5	410.9	377.2	304.3	231.4	158.4	85.6	83.0	80.6
110°	448.6	453.3	457.9	462.6	432.7	368.3	304.1	239.7	175.3	153.1	130.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	499.4	503.4	507.6	511.7	505.9	489.9	474.1	458.2	442.2	361.1	279.8
115°	579.9	583.7	587.5	591.3	596.0	601.5	607.1	612.7	618.2	515.1	412.0
117.5°	652.7	657.0	661.2	665.4	669.4	673.3	677.1	680.9	684.8	659.8	634.9
120°	704.7	708.0	711.4	714.7	718.4	722.5	726.4	730.5	734.4	737.1	739.8
122.5°	749.8	753.3	756.9	760.3	764.3	768.6	773.0	777.4	781.7	783.3	784.9
125°	817.5	820.4	823.3	826.1	829.7	834.0	838.2	842.4	846.7	848.2	849.8
127.5°	879.8	883.0	886.2	889.4	892.5	895.7	898.8	902.0	905.2	907.5	909.7
130°	919.4	922.9	926.5	930.0	933.0	935.5	937.9	940.4	942.8	945.3	947.7
132.5°	958.9	962.0	965.0	968.0	970.7	973.2	975.6	978.1	980.5	982.6	984.7
135°	1011.5	1015.1	1018.7	1022.2	1025.0	1027.0	1029.0	1031.0	1033.0	1035.3	1037.5
137.5°	1063.2	1065.6	1068.2	1070.6	1073.0	1075.3	1077.6	1079.9	1082.1	1084.3	1086.5
140°	1096.9	1098.7	1100.5	1102.3	1104.4	1106.8	1109.3	1111.7	1114.2	1116.2	1118.2
142.5°	1125.6	1127.2	1128.8	1130.4	1132.7	1135.4	1138.2	1141.0	1143.9	1145.7	1147.5
145°	1169.0	1168.8	1168.7	1168.4	1170.2	1173.9	1177.7	1181.6	1185.3	1186.8	1188.5
147.5°	1208.0	1207.1	1206.3	1205.4	1206.8	1210.6	1214.3	1218.0	1221.8	1222.9	1224.1
150°	1232.8	1231.3	1229.7	1228.2	1229.2	1232.8	1236.3	1239.9	1243.4	1244.8	1246.1
152.5°	1254.3	1252.5	1250.8	1249.2	1249.9	1253.3	1256.7	1260.1	1263.5	1264.8	1266.1
155°	1285.5	1283.6	1281.5	1279.5	1279.9	1282.5	1285.2	1287.9	1290.5	1291.8	1293.2
157.5°	1310.5	1308.8	1307.1	1305.4	1305.5	1307.4	1309.2	1311.1	1313.0	1314.5	1316.0
160°	1325.3	1323.9	1322.6	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6	1327.9	1329.3
162.5°	1338.1	1336.7	1335.4	1334.1	1334.0	1335.1	1336.3	1337.5	1338.6	1340.1	1341.6
165°	1355.3	1354.0	1352.6	1351.3	1350.9	1351.6	1352.4	1353.0	1353.7	1355.2	1356.8
167.5°	1368.2	1366.8	1365.5	1364.1	1363.8	1364.4	1365.0	1365.6	1366.3	1367.8	1369.4
170°	1375.4	1374.0	1372.7	1371.4	1370.9	1371.4	1371.8	1372.2	1372.7	1374.2	1375.8
172.5°	1380.2	1378.8	1377.5	1376.2	1375.7	1376.2	1376.6	1377.1	1377.5	1379.0	1380.6
175°	1386.2	1384.6	1383.1	1381.5	1380.9	1381.4	1381.9	1382.2	1382.7	1384.3	1385.8
177.5°	1387.5	1386.2	1385.0	1383.7	1383.2	1383.4	1383.6	1383.7	1383.9	1385.2	1386.4
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	950.0	953.9	953.9	954.5	958.9	958.5	958.2
5°	1011.0	1016.9	1017.7	1024.0	1028.2	1026.8	1022.9
7.5°	1068.5	1079.6	1088.1	1092.8	1098.3	1101.7	1100.2
10°	1114.1	1130.3	1140.1	1146.8	1154.9	1160.9	1158.8
12.5°	1155.5	1174.8	1188.3	1199.8	1200.8	1208.5	1203.2
15°	1220.0	1240.5	1242.6	1251.0	1257.7	1257.0	1257.4
17.5°	1241.3	1247.9	1249.2	1249.4	1249.5	1247.1	1241.7
20°	1233.8	1231.3	1225.3	1220.8	1212.7	1211.5	1204.6
22.5°	1197.7	1189.9	1174.9	1165.0	1152.4	1149.1	1147.1
25°	1126.7	1109.5	1085.5	1062.7	1056.3	1044.1	1047.5
27.5°	1029.4	1002.5	976.6	958.0	941.2	922.7	928.0
30°	960.9	930.7	894.1	865.9	848.0	830.4	827.2
32.5°	879.3	834.9	794.1	769.3	741.8	730.7	718.5
35°	738.5	695.2	654.7	619.9	599.8	584.3	570.2
37.5°	611.8	562.0	529.3	501.1	486.6	477.8	479.9
40°	533.3	489.7	465.7	444.2	430.8	424.5	425.9
42.5°	469.7	437.0	417.3	402.6	393.1	389.6	388.7
45°	397.4	379.1	362.9	354.5	349.9	346.0	343.6
47.5°	348.2	333.2	324.0	319.1	315.0	311.1	311.0
50°	318.6	308.7	302.4	297.1	293.9	291.1	293.6
52.5°	296.1	287.0	280.7	276.0	274.8	272.2	272.2
55°	262.6	255.5	251.0	246.8	244.7	243.3	241.5
57.5°	232.1	225.5	221.3	218.6	214.6	213.2	212.6
60°	210.5	205.2	201.0	197.5	195.7	192.9	192.9
62.5°	190.5	185.2	181.3	178.6	175.7	174.6	174.8
65°	161.6	157.3	153.4	150.6	150.0	147.9	148.5
67.5°	135.0	132.1	128.1	126.5	125.2	124.0	123.2
70°	117.3	114.4	112.3	110.2	109.1	109.1	109.1
72.5°	102.3	98.9	97.6	95.0	95.6	94.4	93.3
75°	79.2	77.1	76.1	74.9	73.2	73.2	73.2
77.5°	58.2	57.7	56.4	55.2	54.9	54.5	54.7
80°	45.1	44.7	44.0	44.0	43.3	43.0	42.2
82.5°	34.6	33.7	33.3	33.0	32.9	32.8	32.7
85°	19.7	19.0	19.0	19.3	18.7	18.7	19.0
87.5°	12.3	12.5	12.3	12.4	12.8	12.6	12.7
90°	23.4	24.5	25.3	25.7	26.2	26.6	27.1
92.5°	25.0	25.5	26.0	26.3	26.5	26.8	27.1
95°	42.4	43.5	44.0	43.7	43.5	43.3	43.1
97.5°	55.0	55.9	56.5	56.7	57.0	57.2	57.5
100°	62.5	64.3	65.3	65.8	66.3	66.7	67.1
102.5°	65.7	68.0	69.5	70.0	70.7	71.4	71.9
105°	68.4	70.9	72.6	73.5	74.4	75.2	76.2
107.5°	78.0	75.6	74.8	75.7	76.5	77.5	78.3
110°	108.6	86.2	75.6	76.4	77.4	78.2	79.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.6	117.3	77.1	77.9	78.5	79.3	79.9
115°	309.0	205.9	146.3	130.3	114.2	98.2	82.2
117.5°	609.9	585.0	546.2	493.5	440.8	388.1	335.5
120°	742.4	745.2	731.4	701.3	671.3	641.2	611.2
122.5°	786.6	788.2	786.0	780.2	774.4	768.5	762.7
125°	851.3	852.9	854.0	854.7	855.4	856.0	856.7
127.5°	912.0	914.3	915.5	915.6	915.8	915.9	916.0
130°	950.2	952.6	953.8	953.6	953.3	953.1	952.9
132.5°	986.8	988.9	989.9	989.6	989.4	989.2	988.9
135°	1039.7	1041.9	1042.8	1042.4	1041.9	1041.5	1041.0
137.5°	1088.6	1090.8	1091.6	1090.8	1090.1	1089.3	1088.5
140°	1120.2	1122.2	1122.7	1121.5	1120.4	1119.3	1118.2
142.5°	1149.3	1151.1	1151.5	1150.4	1149.2	1148.2	1147.1
145°	1190.0	1191.6	1191.8	1190.7	1189.6	1188.5	1187.3
147.5°	1225.3	1226.4	1226.5	1225.6	1224.6	1223.7	1222.8
150°	1247.5	1248.8	1248.9	1247.7	1246.7	1245.6	1244.4
152.5°	1267.5	1268.9	1268.8	1267.2	1265.8	1264.3	1262.9
155°	1294.6	1295.9	1295.6	1293.8	1292.1	1290.3	1288.5
157.5°	1317.5	1319.0	1318.9	1317.2	1315.4	1313.7	1311.9
160°	1330.6	1331.9	1331.8	1330.3	1328.7	1327.2	1325.6
162.5°	1343.1	1344.7	1344.4	1342.6	1340.7	1338.7	1336.8
165°	1358.3	1359.9	1359.9	1358.3	1356.8	1355.2	1353.7
167.5°	1370.9	1372.5	1372.2	1370.3	1368.3	1366.3	1364.2
170°	1377.3	1378.9	1378.7	1376.7	1374.7	1372.7	1370.6
172.5°	1382.1	1383.7	1383.6	1381.5	1379.5	1377.5	1375.5
175°	1387.4	1388.9	1388.6	1386.4	1384.1	1382.0	1379.7
177.5°	1387.6	1388.9	1388.7	1387.1	1385.5	1383.9	1382.3
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7

(END OF REPORT)