

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: P331321-840

Luminaire Tested: **S122DIP-S485D1080U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331321-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S485D1080U840-4F0-1E-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: 6516.5 lumens  
Efficiency: N/A  
Efficacy: 131.9 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

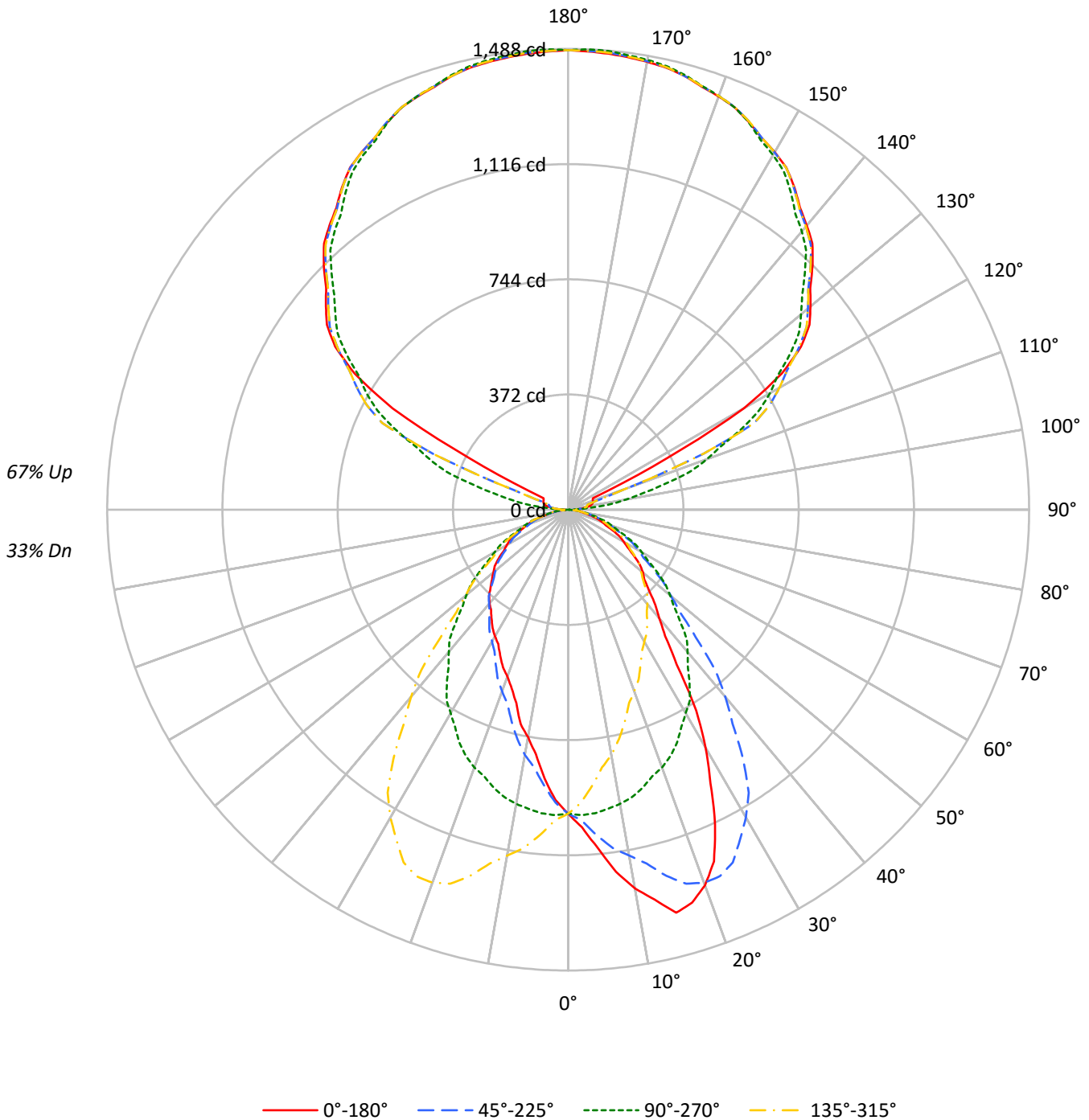
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



67% Up

33% Dn



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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	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°	15844	15844	15844	15844
5°	17763	15948	14131	15948
10°	20354	15816	12231	15816
15°	22519	15527	10805	15527
20°	22175	15216	9850	15216
25°	19996	14801	9246	14801
30°	16524	14139	8804	14139
35°	12043	13448	8489	13448
40°	9619	12631	8315	12631
45°	8405	11686	8079	11686
50°	7902	10771	7920	10771
55°	7282	9841	7707	9841
60°	6675	8854	7379	8854
65°	6082	7966	7060	7966
70°	5519	7105	6590	7105
75°	4897	6145	5833	6145
80°	4203	5086	4695	5086
85°	3779	3779	2779	3779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	1.4
10°-20°	271.7	4.2
20°-30°	394.3	6.1
30°-40°	416.1	6.4
40°-50°	368.4	5.7
50°-60°	294.0	4.5
60°-70°	199.8	3.1
70°-80°	102.5	1.6
80°-90°	28.4	0.4
90°-100°	49.5	0.8
100°-110°	181.5	2.8
110°-120°	485.1	7.4
120°-130°	800.8	12.3
130°-140°	851.6	13.1
140°-150°	791.6	12.1
150°-160°	636.4	9.8
160°-170°	410.1	6.3
170°-180°	141.2	2.2
0°-30°	759.5	11.7
0°-40°	1175.6	18.0
0°-60°	1838.0	28.2
0°-90°	2168.7	33.3
90°-120°	716.1	11.0
90°-150°	3160.1	48.5
90°-180°	4348.0	66.7
0°-180°	6516.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	981	981	981	981	981	
5°	1096	984	872	984	1096	109
15°	1347	929	646	929	1347	372
25°	1122	831	519	831	1122	507
35°	611	682	431	682	611	397
45°	368	512	354	512	368	289
55°	259	350	274	350	259	232
65°	159	208	185	208	159	158
75°	78	98	94	98	78	84
85°	20	20	15	20	20	23
90°	29	1	29	1	29	14
95°	46	70	46	70	46	43
105°	82	326	82	326	82	85
115°	88	617	88	617	88	220
125°	918	873	918	873	918	794
135°	1115	1080	1115	1080	1115	860
145°	1272	1253	1272	1253	1272	796
155°	1381	1380	1381	1380	1381	637
165°	1450	1454	1450	1454	1450	409
175°	1478	1487	1478	1487	1478	141
180°	1484	1484	1484	1484	1484	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1026.6	1026.9	1027.4	1022.7	1022.1	1022.1	1017.8	1014.2	1010.0	1004.2	1004.8
5°	1096.0	1100.1	1101.7	1097.1	1090.4	1089.5	1083.2	1072.6	1062.8	1054.9	1049.2
7.5°	1178.8	1180.4	1176.8	1170.8	1165.8	1156.7	1144.8	1133.1	1116.7	1101.7	1090.6
10°	1241.5	1243.9	1237.4	1228.7	1221.5	1211.0	1193.7	1175.9	1154.5	1133.7	1117.1
12.5°	1289.2	1294.8	1286.6	1285.5	1273.1	1258.7	1238.0	1229.0	1198.8	1169.9	1152.1
15°	1347.2	1346.8	1347.6	1340.4	1331.3	1329.1	1307.2	1283.4	1240.8	1223.9	1194.4
17.5°	1330.4	1336.2	1338.8	1338.7	1338.5	1337.1	1330.0	1315.0	1293.6	1266.2	1232.2
20°	1290.6	1298.1	1299.3	1308.0	1312.8	1319.3	1321.9	1317.8	1304.5	1281.5	1252.1
22.5°	1229.0	1231.1	1234.7	1248.2	1258.8	1274.9	1283.2	1297.2	1292.1	1280.9	1256.4
25°	1122.4	1118.6	1131.8	1138.6	1163.1	1188.7	1207.2	1227.6	1245.7	1256.7	1249.5
27.5°	994.3	988.7	1008.5	1026.4	1046.3	1074.1	1102.9	1136.9	1165.2	1200.6	1212.7
30°	886.3	889.7	908.6	927.8	958.0	997.1	1029.6	1066.9	1107.3	1146.9	1174.4
32.5°	769.8	782.8	794.8	824.3	850.8	894.5	942.1	988.8	1039.2	1084.1	1126.7
35°	611.0	626.0	642.7	664.2	701.5	744.9	791.2	854.2	922.9	984.3	1034.9
37.5°	514.2	511.9	521.4	536.9	567.1	602.2	655.5	717.8	798.6	870.8	942.1
40°	456.4	454.8	461.6	475.9	499.0	524.6	571.4	626.0	701.1	789.3	874.2
42.5°	416.5	417.4	421.2	431.3	447.1	468.2	503.2	549.8	618.4	701.6	792.7
45°	368.1	370.7	374.9	379.8	388.8	406.2	425.8	459.0	513.3	582.7	672.5
47.5°	333.3	333.4	337.5	341.8	347.2	357.0	373.0	393.8	432.1	488.7	565.8
50°	314.6	311.8	314.9	318.3	324.0	330.7	341.3	360.9	386.6	432.2	496.7
52.5°	291.6	291.6	294.4	295.7	300.7	307.5	317.2	330.7	354.0	389.7	442.7
55°	258.7	260.6	262.2	264.4	268.9	273.8	281.3	290.4	308.5	335.3	374.5
57.5°	227.8	228.4	229.9	234.2	237.1	241.6	248.7	257.0	268.7	288.6	318.1
60°	206.7	206.7	209.6	211.6	215.3	219.8	225.5	233.5	244.0	260.2	284.0
62.5°	187.3	187.0	188.2	191.4	194.2	198.4	204.1	210.9	220.8	235.2	254.7
65°	159.2	158.4	160.7	161.4	164.4	168.5	173.1	180.3	188.2	198.7	216.1
67.5°	132.0	132.9	134.1	135.5	137.2	141.6	144.6	149.7	156.3	165.1	176.9
70°	116.9	116.9	116.9	118.1	120.3	122.6	125.6	129.8	136.1	143.7	154.2
72.5°	100.0	101.2	102.4	101.8	104.6	105.9	109.6	111.9	118.1	122.9	132.2
75°	78.5	78.5	78.5	80.3	81.5	82.6	84.8	87.2	90.2	96.1	101.1
77.5°	58.6	58.4	58.8	59.2	60.4	61.8	62.4	64.5	67.3	70.1	74.2
80°	45.2	46.0	46.4	47.2	47.2	47.9	48.3	50.9	52.8	54.7	57.4
82.5°	35.0	35.1	35.2	35.3	35.6	36.2	37.1	38.0	38.6	40.2	42.2
85°	20.4	20.0	20.0	20.7	20.4	20.4	21.1	21.9	21.9	22.2	23.4
87.5°	13.6	13.5	13.7	13.3	13.2	13.4	13.1	12.6	12.7	12.7	12.6
90°	29.0	28.5	28.1	27.6	27.1	26.3	25.0	23.8	22.6	21.5	19.6
92.5°	29.0	28.7	28.4	28.2	27.9	27.4	26.8	26.2	25.5	24.9	23.9
95°	46.2	46.4	46.7	46.9	47.2	46.7	45.4	44.2	43.0	41.9	40.2
97.5°	61.6	61.3	61.1	60.8	60.5	59.9	58.9	58.0	57.0	56.0	52.2
100°	71.9	71.5	71.0	70.5	70.0	68.9	67.0	65.0	63.1	61.2	57.2
102.5°	77.1	76.4	75.7	75.0	74.4	72.8	70.4	67.9	65.4	62.9	59.8
105°	81.6	80.6	79.7	78.8	77.8	75.9	73.3	70.7	68.1	65.4	62.6
107.5°	83.9	83.0	82.0	81.1	80.2	81.0	83.6	86.3	89.0	91.7	89.8
110°	84.8	83.8	82.9	81.9	81.0	82.4	116.3	140.2	164.0	187.8	256.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	85.6	84.9	84.1	83.4	82.6	125.7	212.8	299.8	386.9	473.8	490.9
115°	88.1	105.2	122.4	139.6	156.7	220.6	331.0	441.4	551.9	662.4	656.4
117.5°	359.4	415.9	472.3	528.8	585.2	626.8	653.5	680.2	706.9	733.7	729.5
120°	654.9	687.0	719.2	751.4	783.7	798.4	795.5	792.6	789.7	786.9	782.6
122.5°	817.2	823.4	829.7	836.0	842.1	844.4	842.7	841.0	839.3	837.6	832.9
125°	917.9	917.2	916.5	915.7	915.0	913.8	912.1	910.5	908.8	907.2	902.6
127.5°	981.4	981.3	981.2	981.0	980.9	979.6	977.1	974.7	972.3	969.9	966.4
130°	1021.0	1021.2	1021.4	1021.7	1021.9	1020.7	1018.0	1015.4	1012.8	1010.2	1007.5
132.5°	1059.6	1059.9	1060.1	1060.3	1060.6	1059.6	1057.3	1055.0	1052.8	1050.6	1047.9
135°	1115.4	1115.9	1116.3	1116.8	1117.3	1116.3	1114.0	1111.6	1109.2	1106.8	1104.7
137.5°	1166.3	1167.1	1167.9	1168.7	1169.5	1168.7	1166.4	1164.1	1161.7	1159.4	1157.0
140°	1198.1	1199.2	1200.4	1201.6	1202.9	1202.3	1200.2	1198.1	1195.9	1193.8	1191.1
142.5°	1229.0	1230.2	1231.3	1232.5	1233.8	1233.3	1231.4	1229.4	1227.5	1225.6	1222.5
145°	1272.1	1273.3	1274.6	1275.8	1276.9	1276.7	1275.0	1273.3	1271.6	1270.0	1266.0
147.5°	1310.1	1311.1	1312.1	1313.1	1314.1	1314.0	1312.8	1311.5	1310.3	1309.1	1305.0
150°	1333.3	1334.5	1335.7	1336.9	1338.1	1338.0	1336.6	1335.1	1333.7	1332.2	1328.5
152.5°	1353.1	1354.6	1356.2	1357.8	1359.4	1359.5	1358.1	1356.6	1355.1	1353.7	1350.1
155°	1380.6	1382.5	1384.4	1386.2	1388.2	1388.5	1387.0	1385.5	1384.1	1382.7	1379.9
157.5°	1405.6	1407.5	1409.4	1411.3	1413.1	1413.2	1411.6	1410.0	1408.4	1406.7	1404.7
160°	1420.3	1422.0	1423.6	1425.3	1426.9	1427.0	1425.6	1424.2	1422.8	1421.4	1420.0
162.5°	1432.3	1434.3	1436.4	1438.5	1440.5	1440.8	1439.1	1437.4	1435.8	1434.2	1433.0
165°	1450.4	1452.0	1453.7	1455.3	1457.0	1457.0	1455.3	1453.7	1452.0	1450.4	1449.7
167.5°	1461.7	1463.9	1466.0	1468.1	1470.3	1470.6	1468.8	1467.2	1465.5	1463.9	1463.2
170°	1468.5	1470.8	1472.9	1475.0	1477.1	1477.4	1475.7	1474.1	1472.4	1470.8	1470.3
172.5°	1473.7	1475.9	1478.0	1480.2	1482.4	1482.6	1480.9	1479.3	1477.5	1475.9	1475.4
175°	1478.2	1480.7	1483.0	1485.4	1487.8	1488.1	1486.5	1484.8	1483.2	1481.5	1481.0
177.5°	1481.1	1482.8	1484.5	1486.2	1487.9	1488.1	1486.7	1485.4	1484.1	1482.8	1482.6
180°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1006.9	1004.5	1003.0	997.6	992.8	988.0	986.4	987.0	980.4	974.1	971.4
5°	1046.2	1038.6	1031.5	1021.3	1009.3	996.0	989.3	984.0	970.8	956.4	948.2
7.5°	1081.4	1070.6	1056.7	1037.6	1020.1	999.3	986.0	974.4	955.0	934.8	922.5
10°	1102.8	1088.0	1070.4	1046.9	1025.4	1000.2	982.5	964.7	942.1	918.0	902.9
12.5°	1121.2	1101.4	1083.9	1053.9	1028.4	996.8	975.8	950.9	927.1	898.4	883.5
15°	1165.0	1128.4	1095.2	1061.3	1030.0	985.8	962.5	928.9	897.6	862.1	845.2
17.5°	1198.8	1157.7	1105.5	1062.4	1025.8	976.9	942.6	902.4	865.4	824.9	801.8
20°	1218.2	1171.0	1114.8	1063.6	1019.8	964.0	926.7	885.6	842.1	796.5	771.6
22.5°	1229.6	1180.1	1124.5	1059.0	1007.7	953.4	906.5	861.4	817.4	768.2	742.0
25°	1233.2	1188.0	1129.1	1055.2	992.6	931.2	874.5	830.8	777.7	731.6	693.6
27.5°	1215.3	1182.9	1126.3	1048.1	975.2	903.3	840.3	790.7	734.6	684.7	646.3
30°	1193.3	1174.4	1119.3	1040.9	961.3	884.0	814.7	758.4	702.7	652.1	612.9
32.5°	1159.2	1155.1	1106.7	1030.7	946.5	859.6	787.8	730.9	669.1	619.5	582.1
35°	1092.2	1110.3	1079.7	1007.7	918.7	824.9	747.1	682.3	618.1	570.6	535.5
37.5°	1002.5	1047.4	1039.5	974.1	881.1	787.0	701.1	633.4	572.3	524.3	489.9
40°	940.6	997.9	1006.2	948.5	854.6	757.7	666.8	599.3	539.7	495.9	461.2
42.5°	874.2	941.2	964.0	917.8	825.7	726.9	636.0	566.1	507.2	464.5	433.8
45°	763.0	851.6	892.7	866.3	777.3	676.2	582.7	511.8	458.3	418.3	394.5
47.5°	658.9	755.8	811.1	801.7	723.5	623.4	531.0	462.9	410.8	378.9	357.6
50°	585.3	684.9	751.6	754.7	684.9	585.7	492.9	428.8	380.9	351.1	333.8
52.5°	521.4	616.4	689.2	705.2	641.8	546.4	458.8	395.1	352.8	325.5	309.9
55°	437.9	518.2	599.0	628.3	577.4	486.9	405.8	349.6	310.0	291.1	277.6
57.5°	364.1	431.0	505.5	538.1	506.6	429.2	353.1	304.4	272.3	255.7	245.3
60°	325.1	377.9	444.2	483.1	456.0	387.0	320.5	274.2	247.8	233.1	223.3
62.5°	288.9	335.7	391.7	427.3	412.5	347.4	288.0	247.0	224.3	210.5	203.4
65°	238.3	275.3	318.7	351.5	341.7	292.3	243.7	208.5	190.5	179.6	173.9
67.5°	196.2	223.0	253.1	281.8	273.9	238.8	199.9	172.5	159.0	149.6	146.2
70°	169.8	190.1	216.8	239.8	233.5	204.8	173.9	150.5	138.8	130.9	127.4
72.5°	144.4	161.1	181.6	200.4	196.0	172.2	146.4	128.8	119.8	112.5	109.7
75°	109.0	121.8	134.3	146.7	145.6	127.1	112.0	98.5	91.3	85.6	84.5
77.5°	80.5	87.7	96.1	103.5	101.5	90.9	79.1	71.3	66.0	62.2	61.6
80°	61.5	65.6	71.7	77.0	74.3	69.8	60.4	54.7	50.9	47.2	45.6
82.5°	44.5	48.8	52.3	55.2	53.2	49.0	43.1	39.3	37.1	34.4	33.8
85°	23.4	25.7	27.2	27.9	27.2	24.5	21.9	20.4	18.5	17.4	17.0
87.5°	12.6	12.2	11.8	12.0	10.5	10.0	8.3	6.9	7.1	7.3	7.2
90°	17.7	15.8	13.8	11.6	9.0	6.4	3.7	1.1	3.7	6.4	9.0
92.5°	23.0	22.0	21.1	20.7	21.0	21.2	21.4	21.7	21.4	21.2	21.0
95°	38.6	36.9	35.1	38.3	46.2	54.0	61.9	69.8	61.9	54.0	46.2
97.5°	48.3	44.4	40.6	49.8	71.9	94.1	116.3	138.5	116.3	94.1	71.9
100°	53.1	49.0	44.9	59.3	92.0	124.6	157.3	190.1	157.3	124.6	92.0
102.5°	130.8	164.7	198.6	219.0	225.9	232.9	239.7	246.7	239.7	232.9	225.9
105°	195.7	260.8	326.0	355.0	347.8	340.6	333.6	326.4	333.6	340.6	347.8
107.5°	247.9	326.0	404.1	440.3	434.4	428.7	422.9	417.2	422.9	428.7	434.4
110°	325.8	394.7	463.6	495.6	490.6	485.6	480.6	475.5	480.6	485.6	490.6





TEST NUMBER: P331321-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	508.0	524.9	542.0	548.3	543.8	539.4	535.0	530.6	535.0	539.4	543.8
115°	650.5	644.5	638.5	633.5	629.4	625.4	621.4	617.3	621.4	625.4	629.4
117.5°	725.5	721.3	717.2	713.0	708.4	703.9	699.3	694.8	699.3	703.9	708.4
120°	778.3	774.1	769.7	765.8	762.2	758.6	755.1	751.4	755.1	758.6	762.2
122.5°	828.2	823.5	818.9	814.7	810.9	807.1	803.3	799.6	803.3	807.1	810.9
125°	898.1	893.5	889.0	885.1	882.1	879.0	875.9	872.8	875.9	879.0	882.1
127.5°	963.0	959.7	956.2	952.9	949.5	946.0	942.6	939.2	942.6	946.0	949.5
130°	1004.9	1002.3	999.7	996.4	992.7	988.9	985.0	981.2	985.0	988.9	992.7
132.5°	1045.3	1042.7	1040.1	1037.1	1033.9	1030.7	1027.4	1024.1	1027.4	1030.7	1033.9
135°	1102.5	1100.3	1098.2	1095.2	1091.5	1087.6	1083.8	1079.9	1083.8	1087.6	1091.5
137.5°	1154.6	1152.2	1149.6	1147.1	1144.5	1141.8	1139.1	1136.4	1139.1	1141.8	1144.5
140°	1188.5	1185.9	1183.3	1181.0	1179.1	1177.2	1175.3	1173.4	1175.3	1177.2	1179.1
142.5°	1219.5	1216.5	1213.6	1211.1	1209.4	1207.7	1206.0	1204.3	1206.0	1207.7	1209.4
145°	1261.8	1257.8	1253.7	1251.8	1252.1	1252.3	1252.5	1252.8	1252.5	1252.3	1252.1
147.5°	1301.0	1297.1	1293.0	1291.5	1292.4	1293.3	1294.2	1295.2	1294.2	1293.3	1292.4
150°	1324.6	1320.8	1317.0	1316.0	1317.6	1319.3	1320.9	1322.6	1320.9	1319.3	1317.6
152.5°	1346.5	1342.8	1339.2	1338.4	1340.2	1342.0	1343.9	1345.7	1343.9	1342.0	1340.2
155°	1377.0	1374.1	1371.3	1370.9	1373.0	1375.2	1377.4	1379.5	1377.4	1375.2	1373.0
157.5°	1402.7	1400.8	1398.8	1398.7	1400.5	1402.3	1404.1	1405.9	1404.1	1402.3	1400.5
160°	1418.5	1417.0	1415.6	1415.6	1417.0	1418.5	1420.0	1421.4	1420.0	1418.5	1417.0
162.5°	1431.8	1430.5	1429.3	1429.4	1430.8	1432.2	1433.7	1435.1	1433.7	1432.2	1430.8
165°	1449.0	1448.1	1447.4	1447.8	1449.3	1450.7	1452.1	1453.6	1452.1	1450.7	1449.3
167.5°	1462.5	1461.9	1461.2	1461.6	1463.0	1464.4	1465.9	1467.3	1465.9	1464.4	1463.0
170°	1469.8	1469.4	1468.8	1469.4	1470.8	1472.2	1473.6	1475.0	1473.6	1472.2	1470.8
172.5°	1474.9	1474.5	1474.0	1474.5	1475.9	1477.3	1478.7	1480.2	1478.7	1477.3	1475.9
175°	1480.6	1480.1	1479.6	1480.2	1481.9	1483.5	1485.2	1486.8	1485.2	1483.5	1481.9
177.5°	1482.4	1482.2	1482.0	1482.6	1483.9	1485.2	1486.6	1487.9	1486.6	1485.2	1483.9
180°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	968.4	966.5	960.2	956.8	951.5	946.3	943.0	944.5	945.7	945.1	944.2
5°	940.6	933.4	922.5	913.0	906.3	893.8	888.6	886.0	883.6	881.0	878.4
7.5°	907.6	896.3	880.6	867.2	854.4	839.0	830.2	824.9	819.4	813.4	808.2
10°	884.0	868.2	851.6	832.7	817.7	803.7	791.2	782.9	775.4	768.2	763.0
12.5°	859.3	841.0	820.5	794.8	778.1	758.1	756.3	741.6	729.8	725.4	719.2
15°	819.9	794.3	768.2	737.7	724.5	706.4	695.1	683.8	673.6	666.4	664.5
17.5°	775.2	741.9	716.1	694.2	672.6	654.0	643.6	634.5	626.1	616.5	615.3
20°	741.0	712.5	684.2	664.9	642.7	623.8	611.0	601.9	594.7	589.1	584.2
22.5°	708.8	677.4	651.6	630.5	608.5	593.3	583.2	574.5	568.6	562.3	557.6
25°	657.0	632.5	604.2	580.5	562.3	552.5	544.2	536.6	532.9	528.8	523.5
27.5°	611.7	584.4	558.0	539.6	523.6	514.9	509.1	503.9	500.4	498.0	494.9
30°	579.7	552.1	531.4	513.3	500.1	491.4	487.7	484.6	480.5	479.0	477.5
32.5°	548.9	524.1	506.3	490.7	478.1	472.4	469.0	466.3	463.0	461.5	458.5
35°	505.3	484.6	467.3	458.6	448.4	443.5	440.9	437.1	434.1	432.6	432.2
37.5°	464.4	446.4	434.9	423.8	419.5	416.5	412.9	410.3	409.4	409.2	408.8
40°	437.9	423.1	412.9	403.9	402.0	397.5	394.5	392.2	392.2	392.6	392.2
42.5°	413.7	400.5	391.5	383.7	381.5	378.8	375.8	375.7	376.3	377.5	376.3
45°	377.2	367.7	361.3	357.5	353.4	350.7	350.3	351.5	351.8	352.2	353.4
47.5°	343.5	337.2	331.4	327.3	325.5	325.0	324.6	326.5	328.3	329.0	330.7
50°	323.6	316.4	311.5	308.9	307.4	306.6	307.4	309.6	311.1	313.1	314.2
52.5°	301.2	296.2	292.9	290.7	290.1	290.6	290.7	293.4	295.8	296.4	297.0
55°	270.4	266.6	265.9	262.5	264.0	263.6	265.5	267.0	269.2	271.6	272.0
57.5°	239.6	236.6	234.6	234.9	235.3	237.0	238.5	241.3	243.7	246.0	246.3
60°	219.1	217.6	216.5	216.5	217.2	219.5	221.4	224.0	225.5	227.0	228.1
62.5°	200.5	198.9	197.7	198.3	200.4	201.7	203.9	205.3	206.8	208.3	208.8
65°	170.9	170.1	171.3	172.0	172.4	174.2	176.9	178.0	179.6	180.3	182.9
67.5°	143.6	143.8	143.6	144.7	146.8	147.3	149.8	152.5	152.8	154.2	155.9
70°	125.2	125.9	126.7	127.4	129.4	130.1	132.0	133.1	134.6	135.7	136.9
72.5°	108.4	108.5	109.3	109.1	110.7	112.3	113.9	115.0	116.5	118.0	119.1
75°	83.3	83.3	84.1	84.5	86.3	88.3	87.9	88.7	90.2	91.7	92.4
77.5°	60.9	60.1	60.9	61.2	61.8	63.4	63.7	64.8	66.6	66.0	66.9
80°	46.4	45.2	46.4	46.8	46.8	48.7	48.7	49.4	50.5	49.4	50.5
82.5°	33.1	32.6	33.4	33.5	34.1	34.1	34.7	34.9	36.1	35.5	36.1
85°	16.6	16.3	16.6	16.3	16.6	17.0	17.0	16.6	16.6	17.4	16.3
87.5°	7.5	7.6	7.7	8.1	8.2	8.2	8.2	8.4	8.6	8.3	8.5
90°	11.6	13.8	15.8	17.7	19.6	21.5	22.6	23.8	25.0	26.3	27.1
92.5°	20.7	21.1	22.0	23.0	23.9	24.9	25.5	26.2	26.8	27.4	27.9
95°	38.3	35.1	36.9	38.6	40.2	41.9	43.0	44.2	45.4	46.7	47.2
97.5°	49.8	40.6	44.4	48.3	52.2	56.0	57.0	58.0	58.9	59.9	60.5
100°	59.3	44.9	49.0	53.1	57.2	61.2	63.1	65.0	67.0	68.9	70.0
102.5°	219.0	198.6	164.7	130.8	96.8	62.9	65.4	67.9	70.4	72.8	74.4
105°	355.0	326.0	260.8	195.7	130.6	65.4	68.1	70.7	73.3	75.9	77.8
107.5°	440.3	404.1	326.0	247.9	169.8	91.7	89.0	86.3	83.6	81.0	80.2
110°	495.6	463.6	394.7	325.8	256.8	187.8	164.0	140.2	116.3	92.4	81.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	548.3	542.0	524.9	508.0	490.9	473.8	386.9	299.8	212.8	125.7	82.6
115°	633.5	638.5	644.5	650.5	656.4	662.4	551.9	441.4	331.0	220.6	156.7
117.5°	713.0	717.2	721.3	725.5	729.5	733.7	706.9	680.2	653.5	626.8	585.2
120°	765.8	769.7	774.1	778.3	782.6	786.9	789.7	792.6	795.5	798.4	783.7
122.5°	814.7	818.9	823.5	828.2	832.9	837.6	839.3	841.0	842.7	844.4	842.1
125°	885.1	889.0	893.5	898.1	902.6	907.2	908.8	910.5	912.1	913.8	915.0
127.5°	952.9	956.2	959.7	963.0	966.4	969.9	972.3	974.7	977.1	979.6	980.9
130°	996.4	999.7	1002.3	1004.9	1007.5	1010.2	1012.8	1015.4	1018.0	1020.7	1021.9
132.5°	1037.1	1040.1	1042.7	1045.3	1047.9	1050.6	1052.8	1055.0	1057.3	1059.6	1060.6
135°	1095.2	1098.2	1100.3	1102.5	1104.7	1106.8	1109.2	1111.6	1114.0	1116.3	1117.3
137.5°	1147.1	1149.6	1152.2	1154.6	1157.0	1159.4	1161.7	1164.1	1166.4	1168.7	1169.5
140°	1181.0	1183.3	1185.9	1188.5	1191.1	1193.8	1195.9	1198.1	1200.2	1202.3	1202.9
142.5°	1211.1	1213.6	1216.5	1219.5	1222.5	1225.6	1227.5	1229.4	1231.4	1233.3	1233.8
145°	1251.8	1253.7	1257.8	1261.8	1266.0	1270.0	1271.6	1273.3	1275.0	1276.7	1276.9
147.5°	1291.5	1293.0	1297.1	1301.0	1305.0	1309.1	1310.3	1311.5	1312.8	1314.0	1314.1
150°	1316.0	1317.0	1320.8	1324.6	1328.5	1332.2	1333.7	1335.1	1336.6	1338.0	1338.1
152.5°	1338.4	1339.2	1342.8	1346.5	1350.1	1353.7	1355.1	1356.6	1358.1	1359.5	1359.4
155°	1370.9	1371.3	1374.1	1377.0	1379.9	1382.7	1384.1	1385.5	1387.0	1388.5	1388.2
157.5°	1398.7	1398.8	1400.8	1402.7	1404.7	1406.7	1408.4	1410.0	1411.6	1413.2	1413.1
160°	1415.6	1415.6	1417.0	1418.5	1420.0	1421.4	1422.8	1424.2	1425.6	1427.0	1426.9
162.5°	1429.4	1429.3	1430.5	1431.8	1433.0	1434.2	1435.8	1437.4	1439.1	1440.8	1440.5
165°	1447.8	1447.4	1448.1	1449.0	1449.7	1450.4	1452.0	1453.7	1455.3	1457.0	1457.0
167.5°	1461.6	1461.2	1461.9	1462.5	1463.2	1463.9	1465.5	1467.2	1468.8	1470.6	1470.3
170°	1469.4	1468.8	1469.4	1469.8	1470.3	1470.8	1472.4	1474.1	1475.7	1477.4	1477.1
172.5°	1474.5	1474.0	1474.5	1474.9	1475.4	1475.9	1477.5	1479.3	1480.9	1482.6	1482.4
175°	1480.2	1479.6	1480.1	1480.6	1481.0	1481.5	1483.2	1484.8	1486.5	1488.1	1487.8
177.5°	1482.6	1482.0	1482.2	1482.4	1482.6	1482.8	1484.1	1485.4	1486.7	1488.1	1487.9
180°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6



TEST NUMBER: P331321-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	941.2	940.6	940.6	937.9	940.6	940.6	941.2	944.2	945.1	945.7	944.5
5°	873.1	871.9	870.1	871.9	870.1	871.9	873.1	878.4	881.0	883.6	886.0
7.5°	805.8	801.2	800.5	796.1	800.5	801.2	805.8	808.2	813.4	819.4	824.9
10°	756.6	753.6	753.2	746.0	753.2	753.6	756.6	763.0	768.2	775.4	782.9
12.5°	719.1	711.9	713.4	709.2	713.4	711.9	719.1	719.2	725.4	729.8	741.6
15°	654.3	654.3	652.9	646.4	652.9	654.3	654.3	664.5	666.4	673.6	683.8
17.5°	607.8	607.0	603.4	605.2	603.4	607.0	607.8	615.3	616.5	626.1	634.5
20°	580.1	577.7	573.3	573.3	573.3	577.7	580.1	584.2	589.1	594.7	601.9
22.5°	553.8	553.6	548.9	550.4	548.9	553.6	553.8	557.6	562.3	568.6	574.5
25°	523.1	520.1	517.9	519.0	517.9	520.1	523.1	523.5	528.8	532.9	536.6
27.5°	494.0	492.3	492.2	489.1	492.2	492.3	494.0	494.9	498.0	500.4	503.9
30°	477.1	473.3	474.0	472.2	474.0	473.3	477.1	477.5	479.0	480.5	484.6
32.5°	457.8	456.5	455.7	454.0	455.7	456.5	457.8	458.5	461.5	463.0	466.3
35°	431.4	431.8	429.9	430.7	429.9	431.8	431.4	432.2	432.6	434.1	437.1
37.5°	408.5	409.7	408.8	409.0	408.8	409.7	408.5	408.8	409.2	409.4	410.3
40°	393.3	393.3	393.3	394.5	393.3	393.3	393.3	392.2	392.6	392.2	392.2
42.5°	378.9	378.3	377.7	377.6	377.7	378.3	378.9	376.3	377.5	376.3	375.7
45°	354.2	355.3	355.7	353.8	355.7	355.3	354.2	353.4	352.2	351.8	351.5
47.5°	331.7	331.8	331.7	333.4	331.7	331.8	331.7	330.7	329.0	328.3	326.5
50°	316.1	315.3	316.1	315.3	316.1	315.3	316.1	314.2	313.1	311.1	309.6
52.5°	299.4	299.6	299.1	299.0	299.1	299.6	299.4	297.0	296.4	295.8	293.4
55°	273.5	274.2	273.8	273.8	273.8	274.2	273.5	272.0	271.6	269.2	267.0
57.5°	246.5	247.2	247.7	246.0	247.7	247.2	246.5	246.3	246.0	243.7	241.3
60°	227.8	229.6	229.3	228.5	229.3	229.6	227.8	228.1	227.0	225.5	224.0
62.5°	210.6	211.3	211.2	211.1	211.2	211.3	210.6	208.8	208.3	206.8	205.3
65°	184.0	184.8	183.7	184.8	183.7	184.8	184.0	182.9	180.3	179.6	178.0
67.5°	155.4	155.7	156.5	157.0	156.5	155.7	155.4	155.9	154.2	152.8	152.5
70°	137.6	137.2	138.5	139.6	138.5	137.2	137.6	136.9	135.7	134.6	133.1
72.5°	119.0	119.8	119.4	120.3	119.4	119.8	119.0	119.1	118.0	116.5	115.0
75°	91.7	92.8	92.4	93.5	92.4	92.8	91.7	92.4	91.7	90.2	88.7
77.5°	66.2	66.3	66.2	66.9	66.2	66.3	66.2	66.9	66.0	66.6	64.8
80°	50.5	49.8	49.0	50.5	49.0	49.8	50.5	50.5	49.4	50.5	49.4
82.5°	35.1	35.6	34.8	34.8	34.8	35.6	35.1	36.1	35.5	36.1	34.9
85°	16.3	15.9	15.0	15.0	15.0	15.9	16.3	16.3	17.4	16.6	16.6
87.5°	8.5	8.3	8.4	8.2	8.4	8.3	8.5	8.5	8.3	8.6	8.4
90°	27.6	28.1	28.5	29.0	28.5	28.1	27.6	27.1	26.3	25.0	23.8
92.5°	28.2	28.4	28.7	29.0	28.7	28.4	28.2	27.9	27.4	26.8	26.2
95°	46.9	46.7	46.4	46.2	46.4	46.7	46.9	47.2	46.7	45.4	44.2
97.5°	60.8	61.1	61.3	61.6	61.3	61.1	60.8	60.5	59.9	58.9	58.0
100°	70.5	71.0	71.5	71.9	71.5	71.0	70.5	70.0	68.9	67.0	65.0
102.5°	75.0	75.7	76.4	77.1	76.4	75.7	75.0	74.4	72.8	70.4	67.9
105°	78.8	79.7	80.6	81.6	80.6	79.7	78.8	77.8	75.9	73.3	70.7
107.5°	81.1	82.0	83.0	83.9	83.0	82.0	81.1	80.2	81.0	83.6	86.3
110°	81.9	82.9	83.8	84.8	83.8	82.9	81.9	81.0	92.4	116.3	140.2



TEST NUMBER: P331321-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	83.4	84.1	84.9	85.6	84.9	84.1	83.4	82.6	125.7	212.8	299.8
115°	139.6	122.4	105.2	88.1	105.2	122.4	139.6	156.7	220.6	331.0	441.4
117.5°	528.8	472.3	415.9	359.4	415.9	472.3	528.8	585.2	626.8	653.5	680.2
120°	751.4	719.2	687.0	654.9	687.0	719.2	751.4	783.7	798.4	795.5	792.6
122.5°	836.0	829.7	823.4	817.2	823.4	829.7	836.0	842.1	844.4	842.7	841.0
125°	915.7	916.5	917.2	917.9	917.2	916.5	915.7	915.0	913.8	912.1	910.5
127.5°	981.0	981.2	981.3	981.4	981.3	981.2	981.0	980.9	979.6	977.1	974.7
130°	1021.7	1021.4	1021.2	1021.0	1021.2	1021.4	1021.7	1021.9	1020.7	1018.0	1015.4
132.5°	1060.3	1060.1	1059.9	1059.6	1059.9	1060.1	1060.3	1060.6	1059.6	1057.3	1055.0
135°	1116.8	1116.3	1115.9	1115.4	1115.9	1116.3	1116.8	1117.3	1116.3	1114.0	1111.6
137.5°	1168.7	1167.9	1167.1	1166.3	1167.1	1167.9	1168.7	1169.5	1168.7	1166.4	1164.1
140°	1201.6	1200.4	1199.2	1198.1	1199.2	1200.4	1201.6	1202.9	1202.3	1200.2	1198.1
142.5°	1232.5	1231.3	1230.2	1229.0	1230.2	1231.3	1232.5	1233.8	1233.3	1231.4	1229.4
145°	1275.8	1274.6	1273.3	1272.1	1273.3	1274.6	1275.8	1276.9	1276.7	1275.0	1273.3
147.5°	1313.1	1312.1	1311.1	1310.1	1311.1	1312.1	1313.1	1314.1	1314.0	1312.8	1311.5
150°	1336.9	1335.7	1334.5	1333.3	1334.5	1335.7	1336.9	1338.1	1338.0	1336.6	1335.1
152.5°	1357.8	1356.2	1354.6	1353.1	1354.6	1356.2	1357.8	1359.4	1359.5	1358.1	1356.6
155°	1386.2	1384.4	1382.5	1380.6	1382.5	1384.4	1386.2	1388.2	1388.5	1387.0	1385.5
157.5°	1411.3	1409.4	1407.5	1405.6	1407.5	1409.4	1411.3	1413.1	1413.2	1411.6	1410.0
160°	1425.3	1423.6	1422.0	1420.3	1422.0	1423.6	1425.3	1426.9	1427.0	1425.6	1424.2
162.5°	1438.5	1436.4	1434.3	1432.3	1434.3	1436.4	1438.5	1440.5	1440.8	1439.1	1437.4
165°	1455.3	1453.7	1452.0	1450.4	1452.0	1453.7	1455.3	1457.0	1457.0	1455.3	1453.7
167.5°	1468.1	1466.0	1463.9	1461.7	1463.9	1466.0	1468.1	1470.3	1470.6	1468.8	1467.2
170°	1475.0	1472.9	1470.8	1468.5	1470.8	1472.9	1475.0	1477.1	1477.4	1475.7	1474.1
172.5°	1480.2	1478.0	1475.9	1473.7	1475.9	1478.0	1480.2	1482.4	1482.6	1480.9	1479.3
175°	1485.4	1483.0	1480.7	1478.2	1480.7	1483.0	1485.4	1487.8	1488.1	1486.5	1484.8
177.5°	1486.2	1484.5	1482.8	1481.1	1482.8	1484.5	1486.2	1487.9	1488.1	1486.7	1485.4
180°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	943.0	946.3	951.5	956.8	960.2	966.5	968.4	971.4	974.1	980.4	987.0
5°	888.6	893.8	906.3	913.0	922.5	933.4	940.6	948.2	956.4	970.8	984.0
7.5°	830.2	839.0	854.4	867.2	880.6	896.3	907.6	922.5	934.8	955.0	974.4
10°	791.2	803.7	817.7	832.7	851.6	868.2	884.0	902.9	918.0	942.1	964.7
12.5°	756.3	758.1	778.1	794.8	820.5	841.0	859.3	883.5	898.4	927.1	950.9
15°	695.1	706.4	724.5	737.7	768.2	794.3	819.9	845.2	862.1	897.6	928.9
17.5°	643.6	654.0	672.6	694.2	716.1	741.9	775.2	801.8	824.9	865.4	902.4
20°	611.0	623.8	642.7	664.9	684.2	712.5	741.0	771.6	796.5	842.1	885.6
22.5°	583.2	593.3	608.5	630.5	651.6	677.4	708.8	742.0	768.2	817.4	861.4
25°	544.2	552.5	562.3	580.5	604.2	632.5	657.0	693.6	731.6	777.7	830.8
27.5°	509.1	514.9	523.6	539.6	558.0	584.4	611.7	646.3	684.7	734.6	790.7
30°	487.7	491.4	500.1	513.3	531.4	552.1	579.7	612.9	652.1	702.7	758.4
32.5°	469.0	472.4	478.1	490.7	506.3	524.1	548.9	582.1	619.5	669.1	730.9
35°	440.9	443.5	448.4	458.6	467.3	484.6	505.3	535.5	570.6	618.1	682.3
37.5°	412.9	416.5	419.5	423.8	434.9	446.4	464.4	489.9	524.3	572.3	633.4
40°	394.5	397.5	402.0	403.9	412.9	423.1	437.9	461.2	495.9	539.7	599.3
42.5°	375.8	378.8	381.5	383.7	391.5	400.5	413.7	433.8	464.5	507.2	566.1
45°	350.3	350.7	353.4	357.5	361.3	367.7	377.2	394.5	418.3	458.3	511.8
47.5°	324.6	325.0	325.5	327.3	331.4	337.2	343.5	357.6	378.9	410.8	462.9
50°	307.4	306.6	307.4	308.9	311.5	316.4	323.6	333.8	351.1	380.9	428.8
52.5°	290.7	290.6	290.1	290.7	292.9	296.2	301.2	309.9	325.5	352.8	395.1
55°	265.5	263.6	264.0	262.5	265.9	266.6	270.4	277.6	291.1	310.0	349.6
57.5°	238.5	237.0	235.3	234.9	234.6	236.6	239.6	245.3	255.7	272.3	304.4
60°	221.4	219.5	217.2	216.5	216.5	217.6	219.1	223.3	233.1	247.8	274.2
62.5°	203.9	201.7	200.4	198.3	197.7	198.9	200.5	203.4	210.5	224.3	247.0
65°	176.9	174.2	172.4	172.0	171.3	170.1	170.9	173.9	179.6	190.5	208.5
67.5°	149.8	147.3	146.8	144.7	143.6	143.8	143.6	146.2	149.6	159.0	172.5
70°	132.0	130.1	129.4	127.4	126.7	125.9	125.2	127.4	130.9	138.8	150.5
72.5°	113.9	112.3	110.7	109.1	109.3	108.5	108.4	109.7	112.5	119.8	128.8
75°	87.9	88.3	86.3	84.5	84.1	83.3	83.3	84.5	85.6	91.3	98.5
77.5°	63.7	63.4	61.8	61.2	60.9	60.1	60.9	61.6	62.2	66.0	71.3
80°	48.7	48.7	46.8	46.8	46.4	45.2	46.4	45.6	47.2	50.9	54.7
82.5°	34.7	34.1	34.1	33.5	33.4	32.6	33.1	33.8	34.4	37.1	39.3
85°	17.0	17.0	16.6	16.3	16.6	16.3	16.6	17.0	17.4	18.5	20.4
87.5°	8.2	8.2	8.2	8.1	7.7	7.6	7.5	7.2	7.3	7.1	6.9
90°	22.6	21.5	19.6	17.7	15.8	13.8	11.6	9.0	6.4	3.7	1.1
92.5°	25.5	24.9	23.9	23.0	22.0	21.1	20.7	21.0	21.2	21.4	21.7
95°	43.0	41.9	40.2	38.6	36.9	35.1	38.3	46.2	54.0	61.9	69.8
97.5°	57.0	56.0	52.2	48.3	44.4	40.6	49.8	71.9	94.1	116.3	138.5
100°	63.1	61.2	57.2	53.1	49.0	44.9	59.3	92.0	124.6	157.3	190.1
102.5°	65.4	62.9	96.8	130.8	164.7	198.6	219.0	225.9	232.9	239.7	246.7
105°	68.1	65.4	130.6	195.7	260.8	326.0	355.0	347.8	340.6	333.6	326.4
107.5°	89.0	91.7	169.8	247.9	326.0	404.1	440.3	434.4	428.7	422.9	417.2
110°	164.0	187.8	256.8	325.8	394.7	463.6	495.6	490.6	485.6	480.6	475.5



TEST NUMBER: P331321-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	386.9	473.8	490.9	508.0	524.9	542.0	548.3	543.8	539.4	535.0	530.6
115°	551.9	662.4	656.4	650.5	644.5	638.5	633.5	629.4	625.4	621.4	617.3
117.5°	706.9	733.7	729.5	725.5	721.3	717.2	713.0	708.4	703.9	699.3	694.8
120°	789.7	786.9	782.6	778.3	774.1	769.7	765.8	762.2	758.6	755.1	751.4
122.5°	839.3	837.6	832.9	828.2	823.5	818.9	814.7	810.9	807.1	803.3	799.6
125°	908.8	907.2	902.6	898.1	893.5	889.0	885.1	882.1	879.0	875.9	872.8
127.5°	972.3	969.9	966.4	963.0	959.7	956.2	952.9	949.5	946.0	942.6	939.2
130°	1012.8	1010.2	1007.5	1004.9	1002.3	999.7	996.4	992.7	988.9	985.0	981.2
132.5°	1052.8	1050.6	1047.9	1045.3	1042.7	1040.1	1037.1	1033.9	1030.7	1027.4	1024.1
135°	1109.2	1106.8	1104.7	1102.5	1100.3	1098.2	1095.2	1091.5	1087.6	1083.8	1079.9
137.5°	1161.7	1159.4	1157.0	1154.6	1152.2	1149.6	1147.1	1144.5	1141.8	1139.1	1136.4
140°	1195.9	1193.8	1191.1	1188.5	1185.9	1183.3	1181.0	1179.1	1177.2	1175.3	1173.4
142.5°	1227.5	1225.6	1222.5	1219.5	1216.5	1213.6	1211.1	1209.4	1207.7	1206.0	1204.3
145°	1271.6	1270.0	1266.0	1261.8	1257.8	1253.7	1251.8	1252.1	1252.3	1252.5	1252.8
147.5°	1310.3	1309.1	1305.0	1301.0	1297.1	1293.0	1291.5	1292.4	1293.3	1294.2	1295.2
150°	1333.7	1332.2	1328.5	1324.6	1320.8	1317.0	1316.0	1317.6	1319.3	1320.9	1322.6
152.5°	1355.1	1353.7	1350.1	1346.5	1342.8	1339.2	1338.4	1340.2	1342.0	1343.9	1345.7
155°	1384.1	1382.7	1379.9	1377.0	1374.1	1371.3	1370.9	1373.0	1375.2	1377.4	1379.5
157.5°	1408.4	1406.7	1404.7	1402.7	1400.8	1398.8	1398.7	1400.5	1402.3	1404.1	1405.9
160°	1422.8	1421.4	1420.0	1418.5	1417.0	1415.6	1415.6	1417.0	1418.5	1420.0	1421.4
162.5°	1435.8	1434.2	1433.0	1431.8	1430.5	1429.3	1429.4	1430.8	1432.2	1433.7	1435.1
165°	1452.0	1450.4	1449.7	1449.0	1448.1	1447.4	1447.8	1449.3	1450.7	1452.1	1453.6
167.5°	1465.5	1463.9	1463.2	1462.5	1461.9	1461.2	1461.6	1463.0	1464.4	1465.9	1467.3
170°	1472.4	1470.8	1470.3	1469.8	1469.4	1468.8	1469.4	1470.8	1472.2	1473.6	1475.0
172.5°	1477.5	1475.9	1475.4	1474.9	1474.5	1474.0	1474.5	1475.9	1477.3	1478.7	1480.2
175°	1483.2	1481.5	1481.0	1480.6	1480.1	1479.6	1480.2	1481.9	1483.5	1485.2	1486.8
177.5°	1484.1	1482.8	1482.6	1482.4	1482.2	1482.0	1482.6	1483.9	1485.2	1486.6	1487.9
180°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	986.4	988.0	992.8	997.6	1003.0	1004.5	1006.9	1004.8	1004.2	1010.0	1014.2
5°	989.3	996.0	1009.3	1021.3	1031.5	1038.6	1046.2	1049.2	1054.9	1062.8	1072.6
7.5°	986.0	999.3	1020.1	1037.6	1056.7	1070.6	1081.4	1090.6	1101.7	1116.7	1133.1
10°	982.5	1000.2	1025.4	1046.9	1070.4	1088.0	1102.8	1117.1	1133.7	1154.5	1175.9
12.5°	975.8	996.8	1028.4	1053.9	1083.9	1101.4	1121.2	1152.1	1169.9	1198.8	1229.0
15°	962.5	985.8	1030.0	1061.3	1095.2	1128.4	1165.0	1194.4	1223.9	1240.8	1283.4
17.5°	942.6	976.9	1025.8	1062.4	1105.5	1157.7	1198.8	1232.2	1266.2	1293.6	1315.0
20°	926.7	964.0	1019.8	1063.6	1114.8	1171.0	1218.2	1252.1	1281.5	1304.5	1317.8
22.5°	906.5	953.4	1007.7	1059.0	1124.5	1180.1	1229.6	1256.4	1280.9	1292.1	1297.2
25°	874.5	931.2	992.6	1055.2	1129.1	1188.0	1233.2	1249.5	1256.7	1245.7	1227.6
27.5°	840.3	903.3	975.2	1048.1	1126.3	1182.9	1215.3	1212.7	1200.6	1165.2	1136.9
30°	814.7	884.0	961.3	1040.9	1119.3	1174.4	1193.3	1174.4	1146.9	1107.3	1066.9
32.5°	787.8	859.6	946.5	1030.7	1106.7	1155.1	1159.2	1126.7	1084.1	1039.2	988.8
35°	747.1	824.9	918.7	1007.7	1079.7	1110.3	1092.2	1034.9	984.3	922.9	854.2
37.5°	701.1	787.0	881.1	974.1	1039.5	1047.4	1002.5	942.1	870.8	798.6	717.8
40°	666.8	757.7	854.6	948.5	1006.2	997.9	940.6	874.2	789.3	701.1	626.0
42.5°	636.0	726.9	825.7	917.8	964.0	941.2	874.2	792.7	701.6	618.4	549.8
45°	582.7	676.2	777.3	866.3	892.7	851.6	763.0	672.5	582.7	513.3	459.0
47.5°	531.0	623.4	723.5	801.7	811.1	755.8	658.9	565.8	488.7	432.1	393.8
50°	492.9	585.7	684.9	754.7	751.6	684.9	585.3	496.7	432.2	386.6	360.9
52.5°	458.8	546.4	641.8	705.2	689.2	616.4	521.4	442.7	389.7	354.0	330.7
55°	405.8	486.9	577.4	628.3	599.0	518.2	437.9	374.5	335.3	308.5	290.4
57.5°	353.1	429.2	506.6	538.1	505.5	431.0	364.1	318.1	288.6	268.7	257.0
60°	320.5	387.0	456.0	483.1	444.2	377.9	325.1	284.0	260.2	244.0	233.5
62.5°	288.0	347.4	412.5	427.3	391.7	335.7	288.9	254.7	235.2	220.8	210.9
65°	243.7	292.3	341.7	351.5	318.7	275.3	238.3	216.1	198.7	188.2	180.3
67.5°	199.9	238.8	273.9	281.8	253.1	223.0	196.2	176.9	165.1	156.3	149.7
70°	173.9	204.8	233.5	239.8	216.8	190.1	169.8	154.2	143.7	136.1	129.8
72.5°	146.4	172.2	196.0	200.4	181.6	161.1	144.4	132.2	122.9	118.1	111.9
75°	112.0	127.1	145.6	146.7	134.3	121.8	109.0	101.1	96.1	90.2	87.2
77.5°	79.1	90.9	101.5	103.5	96.1	87.7	80.5	74.2	70.1	67.3	64.5
80°	60.4	69.8	74.3	77.0	71.7	65.6	61.5	57.4	54.7	52.8	50.9
82.5°	43.1	49.0	53.2	55.2	52.3	48.8	44.5	42.2	40.2	38.6	38.0
85°	21.9	24.5	27.2	27.9	27.2	25.7	23.4	23.4	22.2	21.9	21.9
87.5°	8.3	10.0	10.5	12.0	11.8	12.2	12.6	12.6	12.7	12.7	12.6
90°	3.7	6.4	9.0	11.6	13.8	15.8	17.7	19.6	21.5	22.6	23.8
92.5°	21.4	21.2	21.0	20.7	21.1	22.0	23.0	23.9	24.9	25.5	26.2
95°	61.9	54.0	46.2	38.3	35.1	36.9	38.6	40.2	41.9	43.0	44.2
97.5°	116.3	94.1	71.9	49.8	40.6	44.4	48.3	52.2	56.0	57.0	58.0
100°	157.3	124.6	92.0	59.3	44.9	49.0	53.1	57.2	61.2	63.1	65.0
102.5°	239.7	232.9	225.9	219.0	198.6	164.7	130.8	96.8	62.9	65.4	67.9
105°	333.6	340.6	347.8	355.0	326.0	260.8	195.7	130.6	65.4	68.1	70.7
107.5°	422.9	428.7	434.4	440.3	404.1	326.0	247.9	169.8	91.7	89.0	86.3
110°	480.6	485.6	490.6	495.6	463.6	394.7	325.8	256.8	187.8	164.0	140.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	535.0	539.4	543.8	548.3	542.0	524.9	508.0	490.9	473.8	386.9	299.8
115°	621.4	625.4	629.4	633.5	638.5	644.5	650.5	656.4	662.4	551.9	441.4
117.5°	699.3	703.9	708.4	713.0	717.2	721.3	725.5	729.5	733.7	706.9	680.2
120°	755.1	758.6	762.2	765.8	769.7	774.1	778.3	782.6	786.9	789.7	792.6
122.5°	803.3	807.1	810.9	814.7	818.9	823.5	828.2	832.9	837.6	839.3	841.0
125°	875.9	879.0	882.1	885.1	889.0	893.5	898.1	902.6	907.2	908.8	910.5
127.5°	942.6	946.0	949.5	952.9	956.2	959.7	963.0	966.4	969.9	972.3	974.7
130°	985.0	988.9	992.7	996.4	999.7	1002.3	1004.9	1007.5	1010.2	1012.8	1015.4
132.5°	1027.4	1030.7	1033.9	1037.1	1040.1	1042.7	1045.3	1047.9	1050.6	1052.8	1055.0
135°	1083.8	1087.6	1091.5	1095.2	1098.2	1100.3	1102.5	1104.7	1106.8	1109.2	1111.6
137.5°	1139.1	1141.8	1144.5	1147.1	1149.6	1152.2	1154.6	1157.0	1159.4	1161.7	1164.1
140°	1175.3	1177.2	1179.1	1181.0	1183.3	1185.9	1188.5	1191.1	1193.8	1195.9	1198.1
142.5°	1206.0	1207.7	1209.4	1211.1	1213.6	1216.5	1219.5	1222.5	1225.6	1227.5	1229.4
145°	1252.5	1252.3	1252.1	1251.8	1253.7	1257.8	1261.8	1266.0	1270.0	1271.6	1273.3
147.5°	1294.2	1293.3	1292.4	1291.5	1293.0	1297.1	1301.0	1305.0	1309.1	1310.3	1311.5
150°	1320.9	1319.3	1317.6	1316.0	1317.0	1320.8	1324.6	1328.5	1332.2	1333.7	1335.1
152.5°	1343.9	1342.0	1340.2	1338.4	1339.2	1342.8	1346.5	1350.1	1353.7	1355.1	1356.6
155°	1377.4	1375.2	1373.0	1370.9	1371.3	1374.1	1377.0	1379.9	1382.7	1384.1	1385.5
157.5°	1404.1	1402.3	1400.5	1398.7	1398.8	1400.8	1402.7	1404.7	1406.7	1408.4	1410.0
160°	1420.0	1418.5	1417.0	1415.6	1415.6	1417.0	1418.5	1420.0	1421.4	1422.8	1424.2
162.5°	1433.7	1432.2	1430.8	1429.4	1429.3	1430.5	1431.8	1433.0	1434.2	1435.8	1437.4
165°	1452.1	1450.7	1449.3	1447.8	1447.4	1448.1	1449.0	1449.7	1450.4	1452.0	1453.7
167.5°	1465.9	1464.4	1463.0	1461.6	1461.2	1461.9	1462.5	1463.2	1463.9	1465.5	1467.2
170°	1473.6	1472.2	1470.8	1469.4	1468.8	1469.4	1469.8	1470.3	1470.8	1472.4	1474.1
172.5°	1478.7	1477.3	1475.9	1474.5	1474.0	1474.5	1474.9	1475.4	1475.9	1477.5	1479.3
175°	1485.2	1483.5	1481.9	1480.2	1479.6	1480.1	1480.6	1481.0	1481.5	1483.2	1484.8
177.5°	1486.6	1485.2	1483.9	1482.6	1482.0	1482.2	1482.4	1482.6	1482.8	1484.1	1485.4
180°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1017.8	1022.1	1022.1	1022.7	1027.4	1026.9	1026.6
5°	1083.2	1089.5	1090.4	1097.1	1101.7	1100.1	1096.0
7.5°	1144.8	1156.7	1165.8	1170.8	1176.8	1180.4	1178.8
10°	1193.7	1211.0	1221.5	1228.7	1237.4	1243.9	1241.5
12.5°	1238.0	1258.7	1273.1	1285.5	1286.6	1294.8	1289.2
15°	1307.2	1329.1	1331.3	1340.4	1347.6	1346.8	1347.2
17.5°	1330.0	1337.1	1338.5	1338.7	1338.8	1336.2	1330.4
20°	1321.9	1319.3	1312.8	1308.0	1299.3	1298.1	1290.6
22.5°	1283.2	1274.9	1258.8	1248.2	1234.7	1231.1	1229.0
25°	1207.2	1188.7	1163.1	1138.6	1131.8	1118.6	1122.4
27.5°	1102.9	1074.1	1046.3	1026.4	1008.5	988.7	994.3
30°	1029.6	997.1	958.0	927.8	908.6	889.7	886.3
32.5°	942.1	894.5	850.8	824.3	794.8	782.8	769.8
35°	791.2	744.9	701.5	664.2	642.7	626.0	611.0
37.5°	655.5	602.2	567.1	536.9	521.4	511.9	514.2
40°	571.4	524.6	499.0	475.9	461.6	454.8	456.4
42.5°	503.2	468.2	447.1	431.3	421.2	417.4	416.5
45°	425.8	406.2	388.8	379.8	374.9	370.7	368.1
47.5°	373.0	357.0	347.2	341.8	337.5	333.4	333.3
50°	341.3	330.7	324.0	318.3	314.9	311.8	314.6
52.5°	317.2	307.5	300.7	295.7	294.4	291.6	291.6
55°	281.3	273.8	268.9	264.4	262.2	260.6	258.7
57.5°	248.7	241.6	237.1	234.2	229.9	228.4	227.8
60°	225.5	219.8	215.3	211.6	209.6	206.7	206.7
62.5°	204.1	198.4	194.2	191.4	188.2	187.0	187.3
65°	173.1	168.5	164.4	161.4	160.7	158.4	159.2
67.5°	144.6	141.6	137.2	135.5	134.1	132.9	132.0
70°	125.6	122.6	120.3	118.1	116.9	116.9	116.9
72.5°	109.6	105.9	104.6	101.8	102.4	101.2	100.0
75°	84.8	82.6	81.5	80.3	78.5	78.5	78.5
77.5°	62.4	61.8	60.4	59.2	58.8	58.4	58.6
80°	48.3	47.9	47.2	47.2	46.4	46.0	45.2
82.5°	37.1	36.2	35.6	35.3	35.2	35.1	35.0
85°	21.1	20.4	20.4	20.7	20.0	20.0	20.4
87.5°	13.1	13.4	13.2	13.3	13.7	13.5	13.6
90°	25.0	26.3	27.1	27.6	28.1	28.5	29.0
92.5°	26.8	27.4	27.9	28.2	28.4	28.7	29.0
95°	45.4	46.7	47.2	46.9	46.7	46.4	46.2
97.5°	58.9	59.9	60.5	60.8	61.1	61.3	61.6
100°	67.0	68.9	70.0	70.5	71.0	71.5	71.9
102.5°	70.4	72.8	74.4	75.0	75.7	76.4	77.1
105°	73.3	75.9	77.8	78.8	79.7	80.6	81.6
107.5°	83.6	81.0	80.2	81.1	82.0	83.0	83.9
110°	116.3	92.4	81.0	81.9	82.9	83.8	84.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	212.8	125.7	82.6	83.4	84.1	84.9	85.6
115°	331.0	220.6	156.7	139.6	122.4	105.2	88.1
117.5°	653.5	626.8	585.2	528.8	472.3	415.9	359.4
120°	795.5	798.4	783.7	751.4	719.2	687.0	654.9
122.5°	842.7	844.4	842.1	836.0	829.7	823.4	817.2
125°	912.1	913.8	915.0	915.7	916.5	917.2	917.9
127.5°	977.1	979.6	980.9	981.0	981.2	981.3	981.4
130°	1018.0	1020.7	1021.9	1021.7	1021.4	1021.2	1021.0
132.5°	1057.3	1059.6	1060.6	1060.3	1060.1	1059.9	1059.6
135°	1114.0	1116.3	1117.3	1116.8	1116.3	1115.9	1115.4
137.5°	1166.4	1168.7	1169.5	1168.7	1167.9	1167.1	1166.3
140°	1200.2	1202.3	1202.9	1201.6	1200.4	1199.2	1198.1
142.5°	1231.4	1233.3	1233.8	1232.5	1231.3	1230.2	1229.0
145°	1275.0	1276.7	1276.9	1275.8	1274.6	1273.3	1272.1
147.5°	1312.8	1314.0	1314.1	1313.1	1312.1	1311.1	1310.1
150°	1336.6	1338.0	1338.1	1336.9	1335.7	1334.5	1333.3
152.5°	1358.1	1359.5	1359.4	1357.8	1356.2	1354.6	1353.1
155°	1387.0	1388.5	1388.2	1386.2	1384.4	1382.5	1380.6
157.5°	1411.6	1413.2	1413.1	1411.3	1409.4	1407.5	1405.6
160°	1425.6	1427.0	1426.9	1425.3	1423.6	1422.0	1420.3
162.5°	1439.1	1440.8	1440.5	1438.5	1436.4	1434.3	1432.3
165°	1455.3	1457.0	1457.0	1455.3	1453.7	1452.0	1450.4
167.5°	1468.8	1470.6	1470.3	1468.1	1466.0	1463.9	1461.7
170°	1475.7	1477.4	1477.1	1475.0	1472.9	1470.8	1468.5
172.5°	1480.9	1482.6	1482.4	1480.2	1478.0	1475.9	1473.7
175°	1486.5	1488.1	1487.8	1485.4	1483.0	1480.7	1478.2
177.5°	1486.7	1488.1	1487.9	1486.2	1484.5	1482.8	1481.1
180°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)