

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: P331537-830

Luminaire Tested: **S122DIW-S675D970U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331537-830  
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: S122DIW-S675D970U830-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6412.7 lumens  
Efficiency: N/A  
Efficacy: 121.9 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: General Diffuse

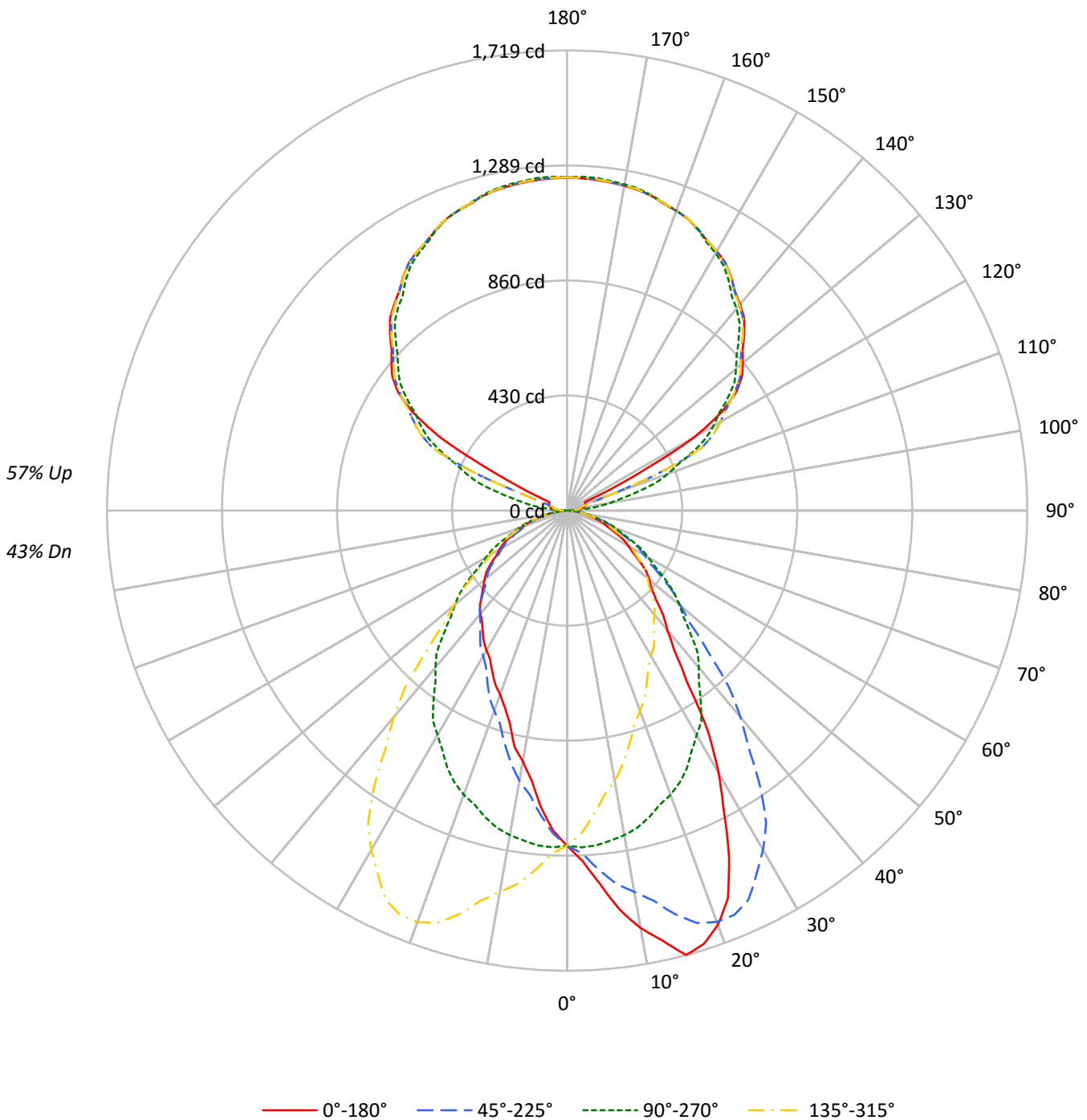
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	0														
RCR																																						
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43																				
1	97	93	89	85	88	85	82	79	70	68	66	57	55	54	45	44	43	37																				
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32																				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27																				
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24																				
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	26	24	21																				
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19																				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17																				
8	54	42	35	29	49	39	32	28	33	28	24	28	24	21	22	20	18	15																				
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14																				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13																				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	22663	20345	18029	20345
10°	25968	20179	15603	20179
15°	28727	19809	13785	19809
20°	28290	19411	12565	19411
25°	25509	18884	11794	18884
30°	21080	18040	11231	18040
35°	15364	17156	10831	17156
40°	12271	16115	10608	16115
45°	10723	14908	10305	14908
50°	10078	13742	10105	13742
55°	9292	12555	9833	12555
60°	8512	11296	9416	11296
65°	7755	10166	9005	10166
70°	7039	9064	8403	9064
75°	6245	7829	7442	7829
80°	5374	6481	5997	6481
85°	4817	4817	3557	4817



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	1.9
10°-20°	346.6	5.4
20°-30°	503.1	7.8
30°-40°	530.9	8.3
40°-50°	470.0	7.3
50°-60°	375.1	5.8
60°-70°	254.9	4.0
70°-80°	130.7	2.0
80°-90°	34.6	0.5
90°-100°	41.5	0.6
100°-110°	152.3	2.4
110°-120°	407.0	6.3
120°-130°	671.8	10.5
130°-140°	714.5	11.1
140°-150°	664.1	10.4
150°-160°	533.9	8.3
160°-170°	344.1	5.4
170°-180°	118.4	1.8
0°-30°	968.9	15.1
0°-40°	1499.8	23.4
0°-60°	2344.9	36.6
0°-90°	2765.1	43.1
90°-120°	600.8	9.4
90°-150°	2651.1	41.3
90°-180°	3648.0	56.9
0°-180°	6412.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1398	1255	1112	1255	1398	140
15°	1719	1185	825	1185	1719	474
25°	1432	1060	662	1060	1432	647
35°	780	870	550	870	780	507
45°	470	653	451	653	470	369
55°	330	446	349	446	330	296
65°	203	266	236	266	203	202
75°	100	126	119	126	100	107
85°	26	26	19	26	26	29
90°	24	1	24	1	24	12
95°	39	58	39	58	39	36
105°	68	274	68	274	68	71
115°	74	518	74	518	74	185
125°	770	732	770	732	770	666
135°	936	906	936	906	936	721
145°	1067	1051	1067	1051	1067	667
155°	1158	1157	1158	1157	1158	534
165°	1217	1220	1217	1220	1217	344
175°	1240	1247	1240	1247	1240	118
180°	1245	1245	1245	1245	1245	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1309.7	1310.0	1310.9	1304.7	1303.9	1303.9	1298.5	1293.9	1288.5	1281.2	1282.0
5°	1398.3	1403.5	1405.4	1399.7	1391.0	1390.1	1381.9	1368.4	1355.8	1345.8	1338.6
7.5°	1503.9	1506.0	1501.3	1493.6	1487.2	1475.7	1460.5	1445.6	1424.7	1405.5	1391.3
10°	1583.9	1586.9	1578.7	1567.6	1558.5	1545.0	1522.9	1500.2	1472.8	1446.3	1425.1
12.5°	1644.7	1651.9	1641.4	1639.9	1624.3	1605.8	1579.4	1568.0	1529.4	1492.5	1469.8
15°	1718.6	1718.2	1719.2	1710.1	1698.5	1695.5	1667.6	1637.4	1583.0	1561.3	1523.8
17.5°	1697.3	1704.6	1708.0	1707.9	1707.6	1705.8	1696.9	1677.7	1650.5	1615.3	1572.0
20°	1646.5	1656.1	1657.6	1668.7	1674.9	1683.1	1686.4	1681.1	1664.3	1634.9	1597.4
22.5°	1568.0	1570.7	1575.2	1592.4	1606.0	1626.5	1637.2	1655.0	1648.5	1634.2	1602.8
25°	1431.9	1427.1	1444.0	1452.6	1483.8	1516.6	1540.2	1566.1	1589.2	1603.2	1594.0
27.5°	1268.5	1261.3	1286.5	1309.5	1334.9	1370.4	1407.1	1450.5	1486.6	1531.7	1547.2
30°	1130.7	1135.0	1159.1	1183.6	1222.1	1272.1	1313.5	1361.2	1412.7	1463.2	1498.3
32.5°	982.1	998.8	1014.0	1051.6	1085.4	1141.3	1201.9	1261.5	1325.7	1383.1	1437.5
35°	779.5	798.7	819.9	847.3	894.9	950.3	1009.5	1089.8	1177.4	1255.8	1320.3
37.5°	656.1	653.0	665.2	684.9	723.6	768.2	836.3	915.8	1018.8	1111.0	1201.9
40°	582.2	580.2	588.9	607.2	636.6	669.3	729.0	798.7	894.5	1007.0	1115.3
42.5°	531.4	532.5	537.3	550.3	570.3	597.3	642.0	701.3	789.0	895.0	1011.3
45°	469.6	473.0	478.2	484.6	496.1	518.2	543.2	585.6	654.9	743.4	857.9
47.5°	425.2	425.3	430.6	436.1	443.0	455.4	475.9	502.4	551.3	623.4	721.8
50°	401.2	397.9	401.8	406.0	413.3	422.0	435.5	460.4	493.1	551.4	633.7
52.5°	372.0	372.1	375.6	377.2	383.7	392.3	404.6	422.0	451.6	497.1	564.8
55°	330.1	332.4	334.4	337.2	343.1	349.3	358.9	370.5	393.6	427.7	477.8
57.5°	290.6	291.3	293.3	298.8	302.5	308.2	317.4	327.8	342.9	368.2	405.8
60°	263.6	263.6	267.5	269.9	274.8	280.5	287.8	297.8	311.3	332.0	362.3
62.5°	239.0	238.7	240.2	244.1	247.8	253.2	260.4	269.0	281.6	300.0	325.0
65°	203.0	202.1	205.0	205.9	209.8	215.1	220.8	230.0	240.1	253.5	275.7
67.5°	168.4	169.6	171.1	173.0	175.0	180.6	184.5	191.0	199.4	210.7	225.6
70°	149.1	149.1	149.1	150.6	153.4	156.4	160.2	165.5	173.7	183.3	196.8
72.5°	127.6	129.1	130.6	129.8	133.5	135.2	139.8	142.8	150.6	156.7	168.7
75°	100.1	100.1	100.1	102.5	104.0	105.4	108.3	111.1	115.0	122.7	128.9
77.5°	74.6	74.5	74.9	75.5	77.1	78.8	79.6	82.3	85.9	89.4	94.7
80°	57.8	58.7	59.2	60.1	60.1	61.1	61.5	64.9	67.4	69.7	73.1
82.5°	44.7	44.9	45.0	45.1	45.5	46.1	47.3	48.4	49.3	51.3	53.9
85°	26.0	25.5	25.5	26.5	26.0	26.0	27.0	27.9	27.9	28.4	29.8
87.5°	14.9	14.8	15.1	14.6	14.5	14.8	14.6	14.0	14.2	14.4	14.4
90°	24.3	23.9	23.5	23.1	22.7	22.1	21.0	20.0	19.0	18.0	16.4
92.5°	24.3	24.0	23.8	23.6	23.4	23.0	22.4	22.0	21.4	20.9	20.1
95°	38.7	38.9	39.1	39.3	39.5	39.1	38.2	37.1	36.1	35.2	33.7
97.5°	51.7	51.5	51.2	51.0	50.7	50.2	49.4	48.6	47.8	47.0	43.7
100°	60.3	59.9	59.6	59.1	58.7	57.8	56.2	54.6	53.0	51.4	48.0
102.5°	64.7	64.1	63.5	63.0	62.4	61.1	59.0	56.9	54.9	52.8	81.2
105°	68.4	67.7	66.8	66.1	65.2	63.7	61.5	59.4	57.1	55.0	109.6
107.5°	70.4	69.7	68.8	68.1	67.2	68.0	70.2	72.4	74.6	76.9	142.4
110°	71.2	70.3	69.6	68.7	68.0	77.6	97.6	117.5	137.6	157.6	215.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	71.9	71.3	70.6	69.9	69.3	105.5	178.5	251.5	324.5	397.6	411.8
115°	73.9	88.2	102.6	117.1	131.5	185.0	277.7	370.3	463.0	555.7	550.7
117.5°	301.5	348.9	396.2	443.6	491.0	525.8	548.3	570.6	593.0	615.5	612.1
120°	549.4	576.4	603.4	630.5	657.4	669.8	667.3	665.0	662.6	660.2	656.6
122.5°	685.6	690.8	696.1	701.3	706.5	708.4	707.0	705.6	704.1	702.7	698.7
125°	770.1	769.4	768.8	768.3	767.6	766.7	765.3	763.8	762.4	761.0	757.2
127.5°	823.3	823.2	823.1	823.0	822.8	821.8	819.7	817.7	815.7	813.6	810.8
130°	856.5	856.7	856.9	857.1	857.3	856.3	854.1	851.9	849.7	847.5	845.3
132.5°	888.9	889.1	889.3	889.5	889.8	888.9	887.0	885.1	883.3	881.4	879.1
135°	935.8	936.1	936.5	937.0	937.4	936.5	934.5	932.6	930.6	928.6	926.7
137.5°	978.5	979.1	979.8	980.5	981.2	980.5	978.5	976.6	974.7	972.7	970.6
140°	1005.1	1006.1	1007.1	1008.1	1009.1	1008.7	1006.9	1005.1	1003.3	1001.5	999.3
142.5°	1031.0	1032.1	1033.0	1034.1	1035.0	1034.7	1033.1	1031.4	1029.8	1028.1	1025.7
145°	1067.2	1068.3	1069.2	1070.3	1071.3	1071.0	1069.7	1068.3	1066.9	1065.5	1062.1
147.5°	1099.1	1099.9	1100.8	1101.6	1102.5	1102.4	1101.4	1100.3	1099.3	1098.3	1094.9
150°	1118.6	1119.6	1120.6	1121.6	1122.6	1122.5	1121.2	1120.1	1118.9	1117.7	1114.5
152.5°	1135.2	1136.5	1137.8	1139.2	1140.5	1140.5	1139.3	1138.1	1136.9	1135.7	1132.7
155°	1158.2	1159.8	1161.4	1163.0	1164.6	1164.8	1163.6	1162.4	1161.2	1160.0	1157.6
157.5°	1179.3	1180.8	1182.4	1183.9	1185.5	1185.6	1184.3	1182.9	1181.6	1180.2	1178.5
160°	1191.6	1193.0	1194.3	1195.7	1197.1	1197.2	1196.0	1194.9	1193.6	1192.4	1191.3
162.5°	1201.6	1203.3	1205.0	1206.7	1208.5	1208.7	1207.3	1206.0	1204.6	1203.2	1202.2
165°	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4	1221.0	1219.6	1218.1	1216.7	1216.2
167.5°	1226.3	1228.1	1229.9	1231.7	1233.5	1233.7	1232.3	1230.9	1229.5	1228.1	1227.6
170°	1232.1	1233.9	1235.7	1237.5	1239.3	1239.4	1238.0	1236.7	1235.3	1233.9	1233.5
172.5°	1236.4	1238.2	1240.0	1241.8	1243.6	1243.8	1242.4	1241.0	1239.6	1238.2	1237.7
175°	1240.2	1242.2	1244.2	1246.1	1248.2	1248.5	1247.1	1245.7	1244.3	1242.8	1242.5
177.5°	1242.6	1244.0	1245.4	1246.8	1248.3	1248.4	1247.3	1246.2	1245.1	1244.0	1243.8
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1284.7	1281.6	1279.7	1272.7	1266.6	1260.5	1258.5	1259.2	1250.8	1242.7	1239.3
5°	1334.7	1325.1	1316.0	1303.0	1287.6	1270.7	1262.1	1255.3	1238.5	1220.2	1209.7
7.5°	1379.6	1365.8	1348.2	1323.7	1301.4	1274.9	1258.0	1243.1	1218.4	1192.7	1176.9
10°	1406.9	1388.1	1365.5	1335.7	1308.2	1276.0	1253.4	1230.8	1201.9	1171.1	1151.9
12.5°	1430.4	1405.0	1382.8	1344.5	1312.1	1271.8	1244.9	1213.1	1182.7	1146.1	1127.3
15°	1486.3	1439.6	1397.2	1354.0	1314.0	1257.7	1227.9	1185.1	1145.1	1099.9	1078.3
17.5°	1529.5	1477.1	1410.3	1355.3	1308.7	1246.4	1202.6	1151.3	1104.1	1052.3	1022.9
20°	1554.2	1493.9	1422.3	1356.9	1301.0	1229.8	1182.2	1129.7	1074.4	1016.2	984.4
22.5°	1568.8	1505.5	1434.6	1351.0	1285.6	1216.4	1156.4	1098.9	1042.8	980.1	946.7
25°	1573.4	1515.6	1440.6	1346.2	1266.4	1188.0	1115.8	1060.0	992.1	933.4	884.9
27.5°	1550.5	1509.1	1436.9	1337.2	1244.2	1152.4	1072.0	1008.8	937.2	873.5	824.6
30°	1522.4	1498.3	1428.0	1327.9	1226.4	1127.8	1039.2	967.6	896.4	831.9	781.8
32.5°	1478.8	1473.7	1411.9	1314.8	1207.6	1096.6	1005.0	932.6	853.7	790.3	742.6
35°	1393.5	1416.5	1377.5	1285.6	1172.1	1052.3	953.2	870.4	788.6	728.0	683.2
37.5°	1278.9	1336.2	1326.1	1242.8	1124.2	1004.0	894.6	808.0	730.1	668.9	625.0
40°	1200.0	1273.1	1283.7	1210.1	1090.3	966.7	850.6	764.6	688.5	632.7	588.4
42.5°	1115.3	1200.8	1229.8	1170.8	1053.3	927.4	811.4	722.2	647.0	592.7	553.5
45°	973.4	1086.5	1138.9	1105.2	991.6	862.7	743.4	652.9	584.6	533.6	503.3
47.5°	840.7	964.2	1034.7	1022.8	923.0	795.3	677.4	590.6	524.1	483.3	456.2
50°	746.8	873.7	958.9	962.8	873.7	747.2	628.9	547.1	486.0	448.0	425.8
52.5°	665.2	786.4	879.3	899.7	818.7	697.2	585.4	504.0	450.2	415.2	395.4
55°	558.6	661.1	764.0	801.6	736.6	621.1	517.7	446.0	395.5	371.5	354.1
57.5°	464.4	549.9	645.0	686.5	646.4	547.5	450.5	388.3	347.3	326.2	312.9
60°	414.7	482.1	566.8	616.3	581.7	493.7	409.0	349.8	316.1	297.4	284.8
62.5°	368.5	428.2	499.8	545.2	526.3	443.3	367.4	315.2	286.1	268.4	259.5
65°	304.1	351.3	406.6	448.5	435.9	372.9	310.9	266.1	243.0	229.0	221.8
67.5°	250.4	284.5	322.8	359.5	349.4	304.7	255.0	220.1	202.8	190.9	186.5
70°	216.5	242.5	276.6	306.0	297.8	261.3	221.8	192.0	177.1	166.9	162.6
72.5°	184.2	205.6	231.6	255.6	250.1	219.7	186.8	164.3	152.8	143.5	139.9
75°	139.0	155.4	171.3	187.2	185.7	162.1	142.9	125.5	116.4	109.2	107.7
77.5°	102.6	111.8	122.6	132.1	129.4	115.9	100.9	91.0	84.2	79.4	78.6
80°	78.4	83.7	91.4	98.1	94.8	89.0	77.0	69.7	64.9	60.1	58.2
82.5°	56.8	62.2	66.8	70.4	67.9	62.5	55.0	50.1	47.2	44.0	43.2
85°	29.8	32.7	34.7	35.6	34.7	31.3	27.9	26.0	23.6	22.1	21.7
87.5°	14.5	14.2	13.9	14.2	12.6	12.3	10.3	8.7	8.7	8.8	8.4
90°	14.8	13.2	11.6	9.7	7.5	5.3	3.1	0.9	3.1	5.3	7.5
92.5°	19.3	18.5	17.7	17.4	17.6	17.8	18.0	18.2	18.0	17.8	17.6
95°	32.3	30.9	29.5	32.1	38.7	45.3	51.9	58.5	51.9	45.3	38.7
97.5°	40.5	37.3	34.0	41.8	60.3	79.0	97.6	116.2	97.6	79.0	60.3
100°	44.5	41.1	37.7	49.8	77.2	104.5	132.0	159.4	132.0	104.5	77.2
102.5°	109.7	138.2	166.6	183.7	189.5	195.4	201.1	207.0	201.1	195.4	189.5
105°	164.2	218.9	273.5	297.8	291.8	285.8	279.8	273.8	279.8	285.8	291.8
107.5°	207.9	273.5	339.0	369.4	364.5	359.7	354.9	350.0	354.9	359.7	364.5
110°	273.3	331.1	389.0	415.8	411.6	407.4	403.2	399.0	403.2	407.4	411.6





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.1	440.5	454.7	460.0	456.3	452.5	448.8	445.1	448.8	452.5	456.3
115°	545.6	540.6	535.6	531.5	528.1	524.7	521.2	517.8	521.2	524.7	528.1
117.5°	608.6	605.2	601.7	598.1	594.3	590.5	586.7	582.9	586.7	590.5	594.3
120°	653.0	649.3	645.7	642.4	639.4	636.4	633.5	630.5	633.5	636.4	639.4
122.5°	694.8	690.9	687.0	683.4	680.2	677.1	673.9	670.8	673.9	677.1	680.2
125°	753.5	749.6	745.8	742.6	740.0	737.4	734.8	732.2	734.8	737.4	740.0
127.5°	807.9	805.1	802.3	799.4	796.5	793.6	790.8	787.9	790.8	793.6	796.5
130°	843.1	840.8	838.7	835.9	832.7	829.6	826.4	823.2	826.4	829.6	832.7
132.5°	876.9	874.8	872.5	870.1	867.3	864.7	862.0	859.2	862.0	864.7	867.3
135°	924.9	923.1	921.3	918.9	915.7	912.5	909.3	906.1	909.3	912.5	915.7
137.5°	968.6	966.6	964.5	962.3	960.2	957.9	955.6	953.4	955.6	957.9	960.2
140°	997.1	994.9	992.7	990.8	989.2	987.6	986.0	984.4	986.0	987.6	989.2
142.5°	1023.1	1020.6	1018.0	1016.1	1014.6	1013.2	1011.7	1010.3	1011.7	1013.2	1014.6
145°	1058.7	1055.3	1051.9	1050.3	1050.5	1050.7	1050.8	1051.0	1050.8	1050.7	1050.5
147.5°	1091.5	1088.2	1084.8	1083.5	1084.2	1085.0	1085.7	1086.6	1085.7	1085.0	1084.2
150°	1111.3	1108.1	1104.8	1104.0	1105.4	1106.7	1108.1	1109.6	1108.1	1106.7	1105.4
152.5°	1129.6	1126.5	1123.5	1122.8	1124.4	1125.9	1127.5	1129.1	1127.5	1125.9	1124.4
155°	1155.2	1152.8	1150.4	1150.1	1151.9	1153.7	1155.5	1157.3	1155.5	1153.7	1151.9
157.5°	1176.9	1175.2	1173.5	1173.4	1174.9	1176.4	1178.0	1179.5	1178.0	1176.4	1174.9
160°	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1191.3	1190.1	1188.8
162.5°	1201.2	1200.1	1199.1	1199.2	1200.3	1201.6	1202.8	1204.0	1202.8	1201.6	1200.3
165°	1215.5	1214.9	1214.4	1214.7	1215.9	1217.0	1218.2	1219.5	1218.2	1217.0	1215.9
167.5°	1227.0	1226.4	1225.9	1226.2	1227.4	1228.6	1229.7	1231.0	1229.7	1228.6	1227.4
170°	1233.0	1232.7	1232.3	1232.7	1233.9	1235.1	1236.2	1237.5	1236.2	1235.1	1233.9
172.5°	1237.4	1237.0	1236.6	1237.0	1238.2	1239.3	1240.6	1241.8	1240.6	1239.3	1238.2
175°	1242.1	1241.7	1241.2	1241.8	1243.2	1244.5	1245.9	1247.4	1245.9	1244.5	1243.2
177.5°	1243.6	1243.5	1243.3	1243.8	1244.9	1246.0	1247.2	1248.3	1247.2	1246.0	1244.9
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331537-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1235.4	1233.1	1225.0	1220.8	1213.8	1207.3	1203.1	1205.0	1206.5	1205.8	1204.6
5°	1200.0	1190.8	1176.9	1164.9	1156.2	1140.3	1133.6	1130.2	1127.4	1124.0	1120.6
7.5°	1157.8	1143.4	1123.4	1106.3	1090.1	1070.4	1059.1	1052.3	1045.5	1037.8	1031.1
10°	1127.8	1107.6	1086.5	1062.3	1043.1	1025.3	1009.5	998.9	989.3	980.1	973.4
12.5°	1096.3	1073.0	1046.8	1013.9	992.7	967.2	964.8	946.1	931.1	925.5	917.6
15°	1046.0	1013.3	980.1	941.1	924.3	901.2	886.7	872.3	859.3	850.2	847.8
17.5°	988.9	946.6	913.6	885.6	858.0	834.3	821.0	809.5	798.8	786.6	784.9
20°	945.5	908.9	872.8	848.3	819.9	795.8	779.5	767.9	758.7	751.6	745.3
22.5°	904.3	864.2	831.2	804.4	776.4	757.0	744.0	732.9	725.3	717.3	711.4
25°	838.2	806.9	770.8	740.5	717.4	704.9	694.3	684.7	679.9	674.6	667.9
27.5°	780.3	745.6	711.8	688.3	668.1	657.0	649.4	642.9	638.4	635.3	631.5
30°	739.5	704.4	678.0	654.9	638.0	627.0	622.2	618.3	613.0	611.1	609.2
32.5°	700.3	668.6	646.0	625.9	609.9	602.7	598.2	594.8	590.7	588.7	584.8
35°	644.7	618.3	596.2	585.0	572.1	565.8	562.5	557.6	553.8	551.9	551.4
37.5°	592.5	569.5	555.0	540.7	535.3	531.4	526.8	523.5	522.4	522.1	521.6
40°	558.6	539.9	526.9	515.3	512.9	507.1	503.3	500.4	500.4	500.9	500.4
42.5°	527.8	511.0	499.5	489.6	486.7	483.2	479.4	479.2	480.0	481.6	480.0
45°	481.2	469.1	460.9	456.1	450.8	447.4	447.0	448.5	448.9	449.4	450.8
47.5°	438.2	430.3	422.8	417.5	415.2	414.6	414.1	416.6	418.9	419.7	422.0
50°	412.8	403.7	397.5	394.1	392.1	391.2	392.1	395.0	396.9	399.4	400.8
52.5°	384.4	377.9	373.5	371.0	370.2	370.8	371.0	374.3	377.3	378.1	378.9
55°	345.0	340.2	339.2	334.9	336.8	336.3	338.7	340.6	343.6	346.4	346.9
57.5°	305.8	301.9	299.3	299.6	300.2	302.4	304.3	307.7	310.9	313.9	314.1
60°	279.6	277.6	276.2	276.2	277.1	280.0	282.5	285.8	287.8	289.6	291.1
62.5°	255.7	253.7	252.3	253.1	255.6	257.3	260.1	261.9	263.8	265.8	266.5
65°	217.9	217.0	218.5	219.4	219.9	222.3	225.6	227.1	229.0	230.0	233.4
67.5°	183.2	183.4	183.2	184.5	187.4	187.9	191.1	194.4	194.8	196.7	198.9
70°	159.8	160.7	161.6	162.6	165.0	166.0	168.4	169.8	171.7	173.2	174.7
72.5°	138.2	138.4	139.3	139.1	141.2	143.3	145.3	146.8	148.6	150.5	151.9
75°	106.3	106.3	107.3	107.7	110.2	112.6	112.1	113.1	115.0	116.9	117.9
77.5°	77.7	76.6	77.7	78.1	78.9	81.0	81.3	82.7	84.8	84.2	85.3
80°	59.2	57.8	59.2	59.7	59.7	62.1	62.1	63.1	64.5	63.1	64.5
82.5°	42.2	41.6	42.6	42.7	43.5	43.5	44.4	44.6	46.0	45.3	46.0
85°	21.2	20.7	21.2	20.7	21.2	21.7	21.7	21.2	21.2	22.1	20.7
87.5°	8.5	8.5	8.4	8.8	8.7	8.6	8.4	8.6	8.9	8.3	8.4
90°	9.7	11.6	13.2	14.8	16.4	18.0	19.0	20.0	21.0	22.1	22.7
92.5°	17.4	17.7	18.5	19.3	20.1	20.9	21.4	22.0	22.4	23.0	23.4
95°	32.1	29.5	30.9	32.3	33.7	35.2	36.1	37.1	38.2	39.1	39.5
97.5°	41.8	34.0	37.3	40.5	43.7	47.0	47.8	48.6	49.4	50.2	50.7
100°	49.8	37.7	41.1	44.5	48.0	51.4	53.0	54.6	56.2	57.8	58.7
102.5°	183.7	166.6	138.2	109.7	81.2	52.8	54.9	56.9	59.0	61.1	62.4
105°	297.8	273.5	218.9	164.2	109.6	55.0	57.1	59.4	61.5	63.7	65.2
107.5°	369.4	339.0	273.5	207.9	142.4	76.9	74.6	72.4	70.2	68.0	67.2
110°	415.8	389.0	331.1	273.3	215.5	157.6	137.6	117.5	97.6	77.6	68.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.0	454.7	440.5	426.1	411.8	397.6	324.5	251.5	178.5	105.5	69.3
115°	531.5	535.6	540.6	545.6	550.7	555.7	463.0	370.3	277.7	185.0	131.5
117.5°	598.1	601.7	605.2	608.6	612.1	615.5	593.0	570.6	548.3	525.8	491.0
120°	642.4	645.7	649.3	653.0	656.6	660.2	662.6	665.0	667.3	669.8	657.4
122.5°	683.4	687.0	690.9	694.8	698.7	702.7	704.1	705.6	707.0	708.4	706.5
125°	742.6	745.8	749.6	753.5	757.2	761.0	762.4	763.8	765.3	766.7	767.6
127.5°	799.4	802.3	805.1	807.9	810.8	813.6	815.7	817.7	819.7	821.8	822.8
130°	835.9	838.7	840.8	843.1	845.3	847.5	849.7	851.9	854.1	856.3	857.3
132.5°	870.1	872.5	874.8	876.9	879.1	881.4	883.3	885.1	887.0	888.9	889.8
135°	918.9	921.3	923.1	924.9	926.7	928.6	930.6	932.6	934.5	936.5	937.4
137.5°	962.3	964.5	966.6	968.6	970.6	972.7	974.7	976.6	978.5	980.5	981.2
140°	990.8	992.7	994.9	997.1	999.3	1001.5	1003.3	1005.1	1006.9	1008.7	1009.1
142.5°	1016.1	1018.0	1020.6	1023.1	1025.7	1028.1	1029.8	1031.4	1033.1	1034.7	1035.0
145°	1050.3	1051.9	1055.3	1058.7	1062.1	1065.5	1066.9	1068.3	1069.7	1071.0	1071.3
147.5°	1083.5	1084.8	1088.2	1091.5	1094.9	1098.3	1099.3	1100.3	1101.4	1102.4	1102.5
150°	1104.0	1104.8	1108.1	1111.3	1114.5	1117.7	1118.9	1120.1	1121.2	1122.5	1122.6
152.5°	1122.8	1123.5	1126.5	1129.6	1132.7	1135.7	1136.9	1138.1	1139.3	1140.5	1140.5
155°	1150.1	1150.4	1152.8	1155.2	1157.6	1160.0	1161.2	1162.4	1163.6	1164.8	1164.6
157.5°	1173.4	1173.5	1175.2	1176.9	1178.5	1180.2	1181.6	1182.9	1184.3	1185.6	1185.5
160°	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1193.6	1194.9	1196.0	1197.2	1197.1
162.5°	1199.2	1199.1	1200.1	1201.2	1202.2	1203.2	1204.6	1206.0	1207.3	1208.7	1208.5
165°	1214.7	1214.4	1214.9	1215.5	1216.2	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4
167.5°	1226.2	1225.9	1226.4	1227.0	1227.6	1228.1	1229.5	1230.9	1232.3	1233.7	1233.5
170°	1232.7	1232.3	1232.7	1233.0	1233.5	1233.9	1235.3	1236.7	1238.0	1239.4	1239.3
172.5°	1237.0	1236.6	1237.0	1237.4	1237.7	1238.2	1239.6	1241.0	1242.4	1243.8	1243.6
175°	1241.8	1241.2	1241.7	1242.1	1242.5	1242.8	1244.3	1245.7	1247.1	1248.5	1248.2
177.5°	1243.8	1243.3	1243.5	1243.6	1243.8	1244.0	1245.1	1246.2	1247.3	1248.4	1248.3
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331537-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1200.8	1200.0	1200.0	1196.6	1200.0	1200.0	1200.8	1204.6	1205.8	1206.5	1205.0
5°	1113.9	1112.4	1110.0	1112.4	1110.0	1112.4	1113.9	1120.6	1124.0	1127.4	1130.2
7.5°	1027.9	1022.2	1021.3	1015.6	1021.3	1022.2	1027.9	1031.1	1037.8	1045.5	1052.3
10°	965.2	961.3	960.8	951.7	960.8	961.3	965.2	973.4	980.1	989.3	998.9
12.5°	917.5	908.2	910.0	904.7	910.0	908.2	917.5	917.6	925.5	931.1	946.1
15°	834.8	834.8	832.8	824.7	832.8	834.8	834.8	847.8	850.2	859.3	872.3
17.5°	775.4	774.5	769.9	772.1	769.9	774.5	775.4	784.9	786.6	798.8	809.5
20°	740.0	737.2	731.3	731.3	731.3	737.2	740.0	745.3	751.6	758.7	767.9
22.5°	706.5	706.3	700.2	702.1	700.2	706.3	706.5	711.4	717.3	725.3	732.9
25°	667.3	663.5	660.6	662.0	660.6	663.5	667.3	667.9	674.6	679.9	684.7
27.5°	630.2	628.1	627.9	624.0	627.9	628.1	630.2	631.5	635.3	638.4	642.9
30°	608.7	603.9	604.8	602.4	604.8	603.9	608.7	609.2	611.1	613.0	618.3
32.5°	584.0	582.3	581.4	579.3	581.4	582.3	584.0	584.8	588.7	590.7	594.8
35°	550.4	550.9	548.6	549.5	548.6	550.9	550.4	551.4	551.9	553.8	557.6
37.5°	521.1	522.6	521.5	521.8	521.5	522.6	521.1	521.6	522.1	522.4	523.5
40°	501.8	501.8	501.8	503.3	501.8	501.8	501.8	500.4	500.9	500.4	500.4
42.5°	483.3	482.6	481.8	481.7	481.8	482.6	483.3	480.0	481.6	480.0	479.2
45°	451.8	453.3	453.7	451.3	453.7	453.3	451.8	450.8	449.4	448.9	448.5
47.5°	423.2	423.4	423.2	425.4	423.2	423.4	423.2	422.0	419.7	418.9	416.6
50°	403.2	402.3	403.2	402.3	403.2	402.3	403.2	400.8	399.4	396.9	395.0
52.5°	382.0	382.2	381.6	381.4	381.6	382.2	382.0	378.9	378.1	377.3	374.3
55°	348.8	349.8	349.3	349.3	349.3	349.8	348.8	346.9	346.4	343.6	340.6
57.5°	314.5	315.4	316.0	313.9	316.0	315.4	314.5	314.1	313.9	310.9	307.7
60°	290.6	293.0	292.6	291.6	292.6	293.0	290.6	291.1	289.6	287.8	285.8
62.5°	268.7	269.6	269.5	269.3	269.5	269.6	268.7	266.5	265.8	263.8	261.9
65°	234.8	235.7	234.3	235.7	234.3	235.7	234.8	233.4	230.0	229.0	227.1
67.5°	198.3	198.6	199.7	200.4	199.7	198.6	198.3	198.9	196.7	194.8	194.4
70°	175.6	175.1	176.5	178.0	176.5	175.1	175.6	174.7	173.2	171.7	169.8
72.5°	151.7	152.8	152.3	153.4	152.3	152.8	151.7	151.9	150.5	148.6	146.8
75°	116.9	118.4	117.9	119.3	117.9	118.4	116.9	117.9	116.9	115.0	113.1
77.5°	84.5	84.6	84.5	85.3	84.5	84.6	84.5	85.3	84.2	84.8	82.7
80°	64.5	63.5	62.6	64.5	62.6	63.5	64.5	64.5	63.1	64.5	63.1
82.5°	44.9	45.4	44.5	44.5	44.5	45.4	44.9	46.0	45.3	46.0	44.6
85°	20.7	20.2	19.2	19.2	19.2	20.2	20.7	20.7	22.1	21.2	21.2
87.5°	8.5	8.2	8.3	7.9	8.3	8.2	8.5	8.4	8.3	8.9	8.6
90°	23.1	23.5	23.9	24.3	23.9	23.5	23.1	22.7	22.1	21.0	20.0
92.5°	23.6	23.8	24.0	24.3	24.0	23.8	23.6	23.4	23.0	22.4	22.0
95°	39.3	39.1	38.9	38.7	38.9	39.1	39.3	39.5	39.1	38.2	37.1
97.5°	51.0	51.2	51.5	51.7	51.5	51.2	51.0	50.7	50.2	49.4	48.6
100°	59.1	59.6	59.9	60.3	59.9	59.6	59.1	58.7	57.8	56.2	54.6
102.5°	63.0	63.5	64.1	64.7	64.1	63.5	63.0	62.4	61.1	59.0	56.9
105°	66.1	66.8	67.7	68.4	67.7	66.8	66.1	65.2	63.7	61.5	59.4
107.5°	68.1	68.8	69.7	70.4	69.7	68.8	68.1	67.2	68.0	70.2	72.4
110°	68.7	69.6	70.3	71.2	70.3	69.6	68.7	68.0	77.6	97.6	117.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	69.9	70.6	71.3	71.9	71.3	70.6	69.9	69.3	105.5	178.5	251.5
115°	117.1	102.6	88.2	73.9	88.2	102.6	117.1	131.5	185.0	277.7	370.3
117.5°	443.6	396.2	348.9	301.5	348.9	396.2	443.6	491.0	525.8	548.3	570.6
120°	630.5	603.4	576.4	549.4	576.4	603.4	630.5	657.4	669.8	667.3	665.0
122.5°	701.3	696.1	690.8	685.6	690.8	696.1	701.3	706.5	708.4	707.0	705.6
125°	768.3	768.8	769.4	770.1	769.4	768.8	768.3	767.6	766.7	765.3	763.8
127.5°	823.0	823.1	823.2	823.3	823.2	823.1	823.0	822.8	821.8	819.7	817.7
130°	857.1	856.9	856.7	856.5	856.7	856.9	857.1	857.3	856.3	854.1	851.9
132.5°	889.5	889.3	889.1	888.9	889.1	889.3	889.5	889.8	888.9	887.0	885.1
135°	937.0	936.5	936.1	935.8	936.1	936.5	937.0	937.4	936.5	934.5	932.6
137.5°	980.5	979.8	979.1	978.5	979.1	979.8	980.5	981.2	980.5	978.5	976.6
140°	1008.1	1007.1	1006.1	1005.1	1006.1	1007.1	1008.1	1009.1	1008.7	1006.9	1005.1
142.5°	1034.1	1033.0	1032.1	1031.0	1032.1	1033.0	1034.1	1035.0	1034.7	1033.1	1031.4
145°	1070.3	1069.2	1068.3	1067.2	1068.3	1069.2	1070.3	1071.3	1071.0	1069.7	1068.3
147.5°	1101.6	1100.8	1099.9	1099.1	1099.9	1100.8	1101.6	1102.5	1102.4	1101.4	1100.3
150°	1121.6	1120.6	1119.6	1118.6	1119.6	1120.6	1121.6	1122.6	1122.5	1121.2	1120.1
152.5°	1139.2	1137.8	1136.5	1135.2	1136.5	1137.8	1139.2	1140.5	1140.5	1139.3	1138.1
155°	1163.0	1161.4	1159.8	1158.2	1159.8	1161.4	1163.0	1164.6	1164.8	1163.6	1162.4
157.5°	1183.9	1182.4	1180.8	1179.3	1180.8	1182.4	1183.9	1185.5	1185.6	1184.3	1182.9
160°	1195.7	1194.3	1193.0	1191.6	1193.0	1194.3	1195.7	1197.1	1197.2	1196.0	1194.9
162.5°	1206.7	1205.0	1203.3	1201.6	1203.3	1205.0	1206.7	1208.5	1208.7	1207.3	1206.0
165°	1221.0	1219.6	1218.1	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4	1221.0	1219.6
167.5°	1231.7	1229.9	1228.1	1226.3	1228.1	1229.9	1231.7	1233.5	1233.7	1232.3	1230.9
170°	1237.5	1235.7	1233.9	1232.1	1233.9	1235.7	1237.5	1239.3	1239.4	1238.0	1236.7
172.5°	1241.8	1240.0	1238.2	1236.4	1238.2	1240.0	1241.8	1243.6	1243.8	1242.4	1241.0
175°	1246.1	1244.2	1242.2	1240.2	1242.2	1244.2	1246.1	1248.2	1248.5	1247.1	1245.7
177.5°	1246.8	1245.4	1244.0	1242.6	1244.0	1245.4	1246.8	1248.3	1248.4	1247.3	1246.2
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1203.1	1207.3	1213.8	1220.8	1225.0	1233.1	1235.4	1239.3	1242.7	1250.8	1259.2
5°	1133.6	1140.3	1156.2	1164.9	1176.9	1190.8	1200.0	1209.7	1220.2	1238.5	1255.3
7.5°	1059.1	1070.4	1090.1	1106.3	1123.4	1143.4	1157.8	1176.9	1192.7	1218.4	1243.1
10°	1009.5	1025.3	1043.1	1062.3	1086.5	1107.6	1127.8	1151.9	1171.1	1201.9	1230.8
12.5°	964.8	967.2	992.7	1013.9	1046.8	1073.0	1096.3	1127.3	1146.1	1182.7	1213.1
15°	886.7	901.2	924.3	941.1	980.1	1013.3	1046.0	1078.3	1099.9	1145.1	1185.1
17.5°	821.0	834.3	858.0	885.6	913.6	946.6	988.9	1022.9	1052.3	1104.1	1151.3
20°	779.5	795.8	819.9	848.3	872.8	908.9	945.5	984.4	1016.2	1074.4	1129.7
22.5°	744.0	757.0	776.4	804.4	831.2	864.2	904.3	946.7	980.1	1042.8	1098.9
25°	694.3	704.9	717.4	740.5	770.8	806.9	838.2	884.9	933.4	992.1	1060.0
27.5°	649.4	657.0	668.1	688.3	711.8	745.6	780.3	824.6	873.5	937.2	1008.8
30°	622.2	627.0	638.0	654.9	678.0	704.4	739.5	781.8	831.9	896.4	967.6
32.5°	598.2	602.7	609.9	625.9	646.0	668.6	700.3	742.6	790.3	853.7	932.6
35°	562.5	565.8	572.1	585.0	596.2	618.3	644.7	683.2	728.0	788.6	870.4
37.5°	526.8	531.4	535.3	540.7	555.0	569.5	592.5	625.0	668.9	730.1	808.0
40°	503.3	507.1	512.9	515.3	526.9	539.9	558.6	588.4	632.7	688.5	764.6
42.5°	479.4	483.2	486.7	489.6	499.5	511.0	527.8	553.5	592.7	647.0	722.2
45°	447.0	447.4	450.8	456.1	460.9	469.1	481.2	503.3	533.6	584.6	652.9
47.5°	414.1	414.6	415.2	417.5	422.8	430.3	438.2	456.2	483.3	524.1	590.6
50°	392.1	391.2	392.1	394.1	397.5	403.7	412.8	425.8	448.0	486.0	547.1
52.5°	371.0	370.8	370.2	371.0	373.5	377.9	384.4	395.4	415.2	450.2	504.0
55°	338.7	336.3	336.8	334.9	339.2	340.2	345.0	354.1	371.5	395.5	446.0
57.5°	304.3	302.4	300.2	299.6	299.3	301.9	305.8	312.9	326.2	347.3	388.3
60°	282.5	280.0	277.1	276.2	276.2	277.6	279.6	284.8	297.4	316.1	349.8
62.5°	260.1	257.3	255.6	253.1	252.3	253.7	255.7	259.5	268.4	286.1	315.2
65°	225.6	222.3	219.9	219.4	218.5	217.0	217.9	221.8	229.0	243.0	266.1
67.5°	191.1	187.9	187.4	184.5	183.2	183.4	183.2	186.5	190.9	202.8	220.1
70°	168.4	166.0	165.0	162.6	161.6	160.7	159.8	162.6	166.9	177.1	192.0
72.5°	145.3	143.3	141.2	139.1	139.3	138.4	138.2	139.9	143.5	152.8	164.3
75°	112.1	112.6	110.2	107.7	107.3	106.3	106.3	107.7	109.2	116.4	125.5
77.5°	81.3	81.0	78.9	78.1	77.7	76.6	77.7	78.6	79.4	84.2	91.0
80°	62.1	62.1	59.7	59.7	59.2	57.8	59.2	58.2	60.1	64.9	69.7
82.5°	44.4	43.5	43.5	42.7	42.6	41.6	42.2	43.2	44.0	47.2	50.1
85°	21.7	21.7	21.2	20.7	21.2	20.7	21.2	21.7	22.1	23.6	26.0
87.5°	8.4	8.6	8.7	8.8	8.4	8.5	8.5	8.4	8.8	8.7	8.7
90°	19.0	18.0	16.4	14.8	13.2	11.6	9.7	7.5	5.3	3.1	0.9
92.5°	21.4	20.9	20.1	19.3	18.5	17.7	17.4	17.6	17.8	18.0	18.2
95°	36.1	35.2	33.7	32.3	30.9	29.5	32.1	38.7	45.3	51.9	58.5
97.5°	47.8	47.0	43.7	40.5	37.3	34.0	41.8	60.3	79.0	97.6	116.2
100°	53.0	51.4	48.0	44.5	41.1	37.7	49.8	77.2	104.5	132.0	159.4
102.5°	54.9	52.8	81.2	109.7	138.2	166.6	183.7	189.5	195.4	201.1	207.0
105°	57.1	55.0	109.6	164.2	218.9	273.5	297.8	291.8	285.8	279.8	273.8
107.5°	74.6	76.9	142.4	207.9	273.5	339.0	369.4	364.5	359.7	354.9	350.0
110°	137.6	157.6	215.5	273.3	331.1	389.0	415.8	411.6	407.4	403.2	399.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	324.5	397.6	411.8	426.1	440.5	454.7	460.0	456.3	452.5	448.8	445.1
115°	463.0	555.7	550.7	545.6	540.6	535.6	531.5	528.1	524.7	521.2	517.8
117.5°	593.0	615.5	612.1	608.6	605.2	601.7	598.1	594.3	590.5	586.7	582.9
120°	662.6	660.2	656.6	653.0	649.3	645.7	642.4	639.4	636.4	633.5	630.5
122.5°	704.1	702.7	698.7	694.8	690.9	687.0	683.4	680.2	677.1	673.9	670.8
125°	762.4	761.0	757.2	753.5	749.6	745.8	742.6	740.0	737.4	734.8	732.2
127.5°	815.7	813.6	810.8	807.9	805.1	802.3	799.4	796.5	793.6	790.8	787.9
130°	849.7	847.5	845.3	843.1	840.8	838.7	835.9	832.7	829.6	826.4	823.2
132.5°	883.3	881.4	879.1	876.9	874.8	872.5	870.1	867.3	864.7	862.0	859.2
135°	930.6	928.6	926.7	924.9	923.1	921.3	918.9	915.7	912.5	909.3	906.1
137.5°	974.7	972.7	970.6	968.6	966.6	964.5	962.3	960.2	957.9	955.6	953.4
140°	1003.3	1001.5	999.3	997.1	994.9	992.7	990.8	989.2	987.6	986.0	984.4
142.5°	1029.8	1028.1	1025.7	1023.1	1020.6	1018.0	1016.1	1014.6	1013.2	1011.7	1010.3
145°	1066.9	1065.5	1062.1	1058.7	1055.3	1051.9	1050.3	1050.5	1050.7	1050.8	1051.0
147.5°	1099.3	1098.3	1094.9	1091.5	1088.2	1084.8	1083.5	1084.2	1085.0	1085.7	1086.6
150°	1118.9	1117.7	1114.5	1111.3	1108.1	1104.8	1104.0	1105.4	1106.7	1108.1	1109.6
152.5°	1136.9	1135.7	1132.7	1129.6	1126.5	1123.5	1122.8	1124.4	1125.9	1127.5	1129.1
155°	1161.2	1160.0	1157.6	1155.2	1152.8	1150.4	1150.1	1151.9	1153.7	1155.5	1157.3
157.5°	1181.6	1180.2	1178.5	1176.9	1175.2	1173.5	1173.4	1174.9	1176.4	1178.0	1179.5
160°	1193.6	1192.4	1191.3	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4
162.5°	1204.6	1203.2	1202.2	1201.2	1200.1	1199.1	1199.2	1200.3	1201.6	1202.8	1204.0
165°	1218.1	1216.7	1216.2	1215.5	1214.9	1214.4	1214.7	1215.9	1217.0	1218.2	1219.5
167.5°	1229.5	1228.1	1227.6	1227.0	1226.4	1225.9	1226.2	1227.4	1228.6	1229.7	1231.0
170°	1235.3	1233.9	1233.5	1233.0	1232.7	1232.3	1232.7	1233.9	1235.1	1236.2	1237.5
172.5°	1239.6	1238.2	1237.7	1237.4	1237.0	1236.6	1237.0	1238.2	1239.3	1240.6	1241.8
175°	1244.3	1242.8	1242.5	1242.1	1241.7	1241.2	1241.8	1243.2	1244.5	1245.9	1247.4
177.5°	1245.1	1244.0	1243.8	1243.6	1243.5	1243.3	1243.8	1244.9	1246.0	1247.2	1248.3
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1258.5	1260.5	1266.6	1272.7	1279.7	1281.6	1284.7	1282.0	1281.2	1288.5	1293.9
5°	1262.1	1270.7	1287.6	1303.0	1316.0	1325.1	1334.7	1338.6	1345.8	1355.8	1368.4
7.5°	1258.0	1274.9	1301.4	1323.7	1348.2	1365.8	1379.6	1391.3	1405.5	1424.7	1445.6
10°	1253.4	1276.0	1308.2	1335.7	1365.5	1388.1	1406.9	1425.1	1446.3	1472.8	1500.2
12.5°	1244.9	1271.8	1312.1	1344.5	1382.8	1405.0	1430.4	1469.8	1492.5	1529.4	1568.0
15°	1227.9	1257.7	1314.0	1354.0	1397.2	1439.6	1486.3	1523.8	1561.3	1583.0	1637.4
17.5°	1202.6	1246.4	1308.7	1355.3	1410.3	1477.1	1529.5	1572.0	1615.3	1650.5	1677.7
20°	1182.2	1229.8	1301.0	1356.9	1422.3	1493.9	1554.2	1597.4	1634.9	1664.3	1681.1
22.5°	1156.4	1216.4	1285.6	1351.0	1434.6	1505.5	1568.8	1602.8	1634.2	1648.5	1655.0
25°	1115.8	1188.0	1266.4	1346.2	1440.6	1515.6	1573.4	1594.0	1603.2	1589.2	1566.1
27.5°	1072.0	1152.4	1244.2	1337.2	1436.9	1509.1	1550.5	1547.2	1531.7	1486.6	1450.5
30°	1039.2	1127.8	1226.4	1327.9	1428.0	1498.3	1522.4	1498.3	1463.2	1412.7	1361.2
32.5°	1005.0	1096.6	1207.6	1314.8	1411.9	1473.7	1478.8	1437.5	1383.1	1325.7	1261.5
35°	953.2	1052.3	1172.1	1285.6	1377.5	1416.5	1393.5	1320.3	1255.8	1177.4	1089.8
37.5°	894.6	1004.0	1124.2	1242.8	1326.1	1336.2	1278.9	1201.9	1111.0	1018.8	915.8
40°	850.6	966.7	1090.3	1210.1	1283.7	1273.1	1200.0	1115.3	1007.0	894.5	798.7
42.5°	811.4	927.4	1053.3	1170.8	1229.8	1200.8	1115.3	1011.3	895.0	789.0	701.3
45°	743.4	862.7	991.6	1105.2	1138.9	1086.5	973.4	857.9	743.4	654.9	585.6
47.5°	677.4	795.3	923.0	1022.8	1034.7	964.2	840.7	721.8	623.4	551.3	502.4
50°	628.9	747.2	873.7	962.8	958.9	873.7	746.8	633.7	551.4	493.1	460.4
52.5°	585.4	697.2	818.7	899.7	879.3	786.4	665.2	564.8	497.1	451.6	422.0
55°	517.7	621.1	736.6	801.6	764.0	661.1	558.6	477.8	427.7	393.6	370.5
57.5°	450.5	547.5	646.4	686.5	645.0	549.9	464.4	405.8	368.2	342.9	327.8
60°	409.0	493.7	581.7	616.3	566.8	482.1	414.7	362.3	332.0	311.3	297.8
62.5°	367.4	443.3	526.3	545.2	499.8	428.2	368.5	325.0	300.0	281.6	269.0
65°	310.9	372.9	435.9	448.5	406.6	351.3	304.1	275.7	253.5	240.1	230.0
67.5°	255.0	304.7	349.4	359.5	322.8	284.5	250.4	225.6	210.7	199.4	191.0
70°	221.8	261.3	297.8	306.0	276.6	242.5	216.5	196.8	183.3	173.7	165.5
72.5°	186.8	219.7	250.1	255.6	231.6	205.6	184.2	168.7	156.7	150.6	142.8
75°	142.9	162.1	185.7	187.2	171.3	155.4	139.0	128.9	122.7	115.0	111.1
77.5°	100.9	115.9	129.4	132.1	122.6	111.8	102.6	94.7	89.4	85.9	82.3
80°	77.0	89.0	94.8	98.1	91.4	83.7	78.4	73.1	69.7	67.4	64.9
82.5°	55.0	62.5	67.9	70.4	66.8	62.2	56.8	53.9	51.3	49.3	48.4
85°	27.9	31.3	34.7	35.6	34.7	32.7	29.8	29.8	28.4	27.9	27.9
87.5°	10.3	12.3	12.6	14.2	13.9	14.2	14.5	14.4	14.4	14.2	14.0
90°	3.1	5.3	7.5	9.7	11.6	13.2	14.8	16.4	18.0	19.0	20.0
92.5°	18.0	17.8	17.6	17.4	17.7	18.5	19.3	20.1	20.9	21.4	22.0
95°	51.9	45.3	38.7	32.1	29.5	30.9	32.3	33.7	35.2	36.1	37.1
97.5°	97.6	79.0	60.3	41.8	34.0	37.3	40.5	43.7	47.0	47.8	48.6
100°	132.0	104.5	77.2	49.8	37.7	41.1	44.5	48.0	51.4	53.0	54.6
102.5°	201.1	195.4	189.5	183.7	166.6	138.2	109.7	81.2	52.8	54.9	56.9
105°	279.8	285.8	291.8	297.8	273.5	218.9	164.2	109.6	55.0	57.1	59.4
107.5°	354.9	359.7	364.5	369.4	339.0	273.5	207.9	142.4	76.9	74.6	72.4
110°	403.2	407.4	411.6	415.8	389.0	331.1	273.3	215.5	157.6	137.6	117.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	448.8	452.5	456.3	460.0	454.7	440.5	426.1	411.8	397.6	324.5	251.5
115°	521.2	524.7	528.1	531.5	535.6	540.6	545.6	550.7	555.7	463.0	370.3
117.5°	586.7	590.5	594.3	598.1	601.7	605.2	608.6	612.1	615.5	593.0	570.6
120°	633.5	636.4	639.4	642.4	645.7	649.3	653.0	656.6	660.2	662.6	665.0
122.5°	673.9	677.1	680.2	683.4	687.0	690.9	694.8	698.7	702.7	704.1	705.6
125°	734.8	737.4	740.0	742.6	745.8	749.6	753.5	757.2	761.0	762.4	763.8
127.5°	790.8	793.6	796.5	799.4	802.3	805.1	807.9	810.8	813.6	815.7	817.7
130°	826.4	829.6	832.7	835.9	838.7	840.8	843.1	845.3	847.5	849.7	851.9
132.5°	862.0	864.7	867.3	870.1	872.5	874.8	876.9	879.1	881.4	883.3	885.1
135°	909.3	912.5	915.7	918.9	921.3	923.1	924.9	926.7	928.6	930.6	932.6
137.5°	955.6	957.9	960.2	962.3	964.5	966.6	968.6	970.6	972.7	974.7	976.6
140°	986.0	987.6	989.2	990.8	992.7	994.9	997.1	999.3	1001.5	1003.3	1005.1
142.5°	1011.7	1013.2	1014.6	1016.1	1018.0	1020.6	1023.1	1025.7	1028.1	1029.8	1031.4
145°	1050.8	1050.7	1050.5	1050.3	1051.9	1055.3	1058.7	1062.1	1065.5	1066.9	1068.3
147.5°	1085.7	1085.0	1084.2	1083.5	1084.8	1088.2	1091.5	1094.9	1098.3	1099.3	1100.3
150°	1108.1	1106.7	1105.4	1104.0	1104.8	1108.1	1111.3	1114.5	1117.7	1118.9	1120.1
152.5°	1127.5	1125.9	1124.4	1122.8	1123.5	1126.5	1129.6	1132.7	1135.7	1136.9	1138.1
155°	1155.5	1153.7	1151.9	1150.1	1150.4	1152.8	1155.2	1157.6	1160.0	1161.2	1162.4
157.5°	1178.0	1176.4	1174.9	1173.4	1173.5	1175.2	1176.9	1178.5	1180.2	1181.6	1182.9
160°	1191.3	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1193.6	1194.9
162.5°	1202.8	1201.6	1200.3	1199.2	1199.1	1200.1	1201.2	1202.2	1203.2	1204.6	1206.0
165°	1218.2	1217.0	1215.9	1214.7	1214.4	1214.9	1215.5	1216.2	1216.7	1218.1	1219.6
167.5°	1229.7	1228.6	1227.4	1226.2	1225.9	1226.4	1227.0	1227.6	1228.1	1229.5	1230.9
170°	1236.2	1235.1	1233.9	1232.7	1232.3	1232.7	1233.0	1233.5	1233.9	1235.3	1236.7
172.5°	1240.6	1239.3	1238.2	1237.0	1236.6	1237.0	1237.4	1237.7	1238.2	1239.6	1241.0
175°	1245.9	1244.5	1243.2	1241.8	1241.2	1241.7	1242.1	1242.5	1242.8	1244.3	1245.7
177.5°	1247.2	1246.0	1244.9	1243.8	1243.3	1243.5	1243.6	1243.8	1244.0	1245.1	1246.2
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1298.5	1303.9	1303.9	1304.7	1310.9	1310.0	1309.7
5°	1381.9	1390.1	1391.0	1399.7	1405.4	1403.5	1398.3
7.5°	1460.5	1475.7	1487.2	1493.6	1501.3	1506.0	1503.9
10°	1522.9	1545.0	1558.5	1567.6	1578.7	1586.9	1583.9
12.5°	1579.4	1605.8	1624.3	1639.9	1641.4	1651.9	1644.7
15°	1667.6	1695.5	1698.5	1710.1	1719.2	1718.2	1718.6
17.5°	1696.9	1705.8	1707.6	1707.9	1708.0	1704.6	1697.3
20°	1686.4	1683.1	1674.9	1668.7	1657.6	1656.1	1646.5
22.5°	1637.2	1626.5	1606.0	1592.4	1575.2	1570.7	1568.0
25°	1540.2	1516.6	1483.8	1452.6	1444.0	1427.1	1431.9
27.5°	1407.1	1370.4	1334.9	1309.5	1286.5	1261.3	1268.5
30°	1313.5	1272.1	1222.1	1183.6	1159.1	1135.0	1130.7
32.5°	1201.9	1141.3	1085.4	1051.6	1014.0	998.8	982.1
35°	1009.5	950.3	894.9	847.3	819.9	798.7	779.5
37.5°	836.3	768.2	723.6	684.9	665.2	653.0	656.1
40°	729.0	669.3	636.6	607.2	588.9	580.2	582.2
42.5°	642.0	597.3	570.3	550.3	537.3	532.5	531.4
45°	543.2	518.2	496.1	484.6	478.2	473.0	469.6
47.5°	475.9	455.4	443.0	436.1	430.6	425.3	425.2
50°	435.5	422.0	413.3	406.0	401.8	397.9	401.2
52.5°	404.6	392.3	383.7	377.2	375.6	372.1	372.0
55°	358.9	349.3	343.1	337.2	334.4	332.4	330.1
57.5°	317.4	308.2	302.5	298.8	293.3	291.3	290.6
60°	287.8	280.5	274.8	269.9	267.5	263.6	263.6
62.5°	260.4	253.2	247.8	244.1	240.2	238.7	239.0
65°	220.8	215.1	209.8	205.9	205.0	202.1	203.0
67.5°	184.5	180.6	175.0	173.0	171.1	169.6	168.4
70°	160.2	156.4	153.4	150.6	149.1	149.1	149.1
72.5°	139.8	135.2	133.5	129.8	130.6	129.1	127.6
75°	108.3	105.4	104.0	102.5	100.1	100.1	100.1
77.5°	79.6	78.8	77.1	75.5	74.9	74.5	74.6
80°	61.5	61.1	60.1	60.1	59.2	58.7	57.8
82.5°	47.3	46.1	45.5	45.1	45.0	44.9	44.7
85°	27.0	26.0	26.0	26.5	25.5	25.5	26.0
87.5°	14.6	14.8	14.5	14.6	15.1	14.8	14.9
90°	21.0	22.1	22.7	23.1	23.5	23.9	24.3
92.5°	22.4	23.0	23.4	23.6	23.8	24.0	24.3
95°	38.2	39.1	39.5	39.3	39.1	38.9	38.7
97.5°	49.4	50.2	50.7	51.0	51.2	51.5	51.7
100°	56.2	57.8	58.7	59.1	59.6	59.9	60.3
102.5°	59.0	61.1	62.4	63.0	63.5	64.1	64.7
105°	61.5	63.7	65.2	66.1	66.8	67.7	68.4
107.5°	70.2	68.0	67.2	68.1	68.8	69.7	70.4
110°	97.6	77.6	68.0	68.7	69.6	70.3	71.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	178.5	105.5	69.3	69.9	70.6	71.3	71.9
115°	277.7	185.0	131.5	117.1	102.6	88.2	73.9
117.5°	548.3	525.8	491.0	443.6	396.2	348.9	301.5
120°	667.3	669.8	657.4	630.5	603.4	576.4	549.4
122.5°	707.0	708.4	706.5	701.3	696.1	690.8	685.6
125°	765.3	766.7	767.6	768.3	768.8	769.4	770.1
127.5°	819.7	821.8	822.8	823.0	823.1	823.2	823.3
130°	854.1	856.3	857.3	857.1	856.9	856.7	856.5
132.5°	887.0	888.9	889.8	889.5	889.3	889.1	888.9
135°	934.5	936.5	937.4	937.0	936.5	936.1	935.8
137.5°	978.5	980.5	981.2	980.5	979.8	979.1	978.5
140°	1006.9	1008.7	1009.1	1008.1	1007.1	1006.1	1005.1
142.5°	1033.1	1034.7	1035.0	1034.1	1033.0	1032.1	1031.0
145°	1069.7	1071.0	1071.3	1070.3	1069.2	1068.3	1067.2
147.5°	1101.4	1102.4	1102.5	1101.6	1100.8	1099.9	1099.1
150°	1121.2	1122.5	1122.6	1121.6	1120.6	1119.6	1118.6
152.5°	1139.3	1140.5	1140.5	1139.2	1137.8	1136.5	1135.2
155°	1163.6	1164.8	1164.6	1163.0	1161.4	1159.8	1158.2
157.5°	1184.3	1185.6	1185.5	1183.9	1182.4	1180.8	1179.3
160°	1196.0	1197.2	1197.1	1195.7	1194.3	1193.0	1191.6
162.5°	1207.3	1208.7	1208.5	1206.7	1205.0	1203.3	1201.6
165°	1221.0	1222.4	1222.4	1221.0	1219.6	1218.1	1216.7
167.5°	1232.3	1233.7	1233.5	1231.7	1229.9	1228.1	1226.3
170°	1238.0	1239.4	1239.3	1237.5	1235.7	1233.9	1232.1
172.5°	1242.4	1243.8	1243.6	1241.8	1240.0	1238.2	1236.4
175°	1247.1	1248.5	1248.2	1246.1	1244.2	1242.2	1240.2
177.5°	1247.3	1248.4	1248.3	1246.8	1245.4	1244.0	1242.6
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6

(END OF REPORT)