

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: P331544-940

Luminaire Tested: **S122DIW-S675D1240U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331544-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S675D1240U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6449.7 lumens
Efficiency: N/A
Efficacy: 105.0 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

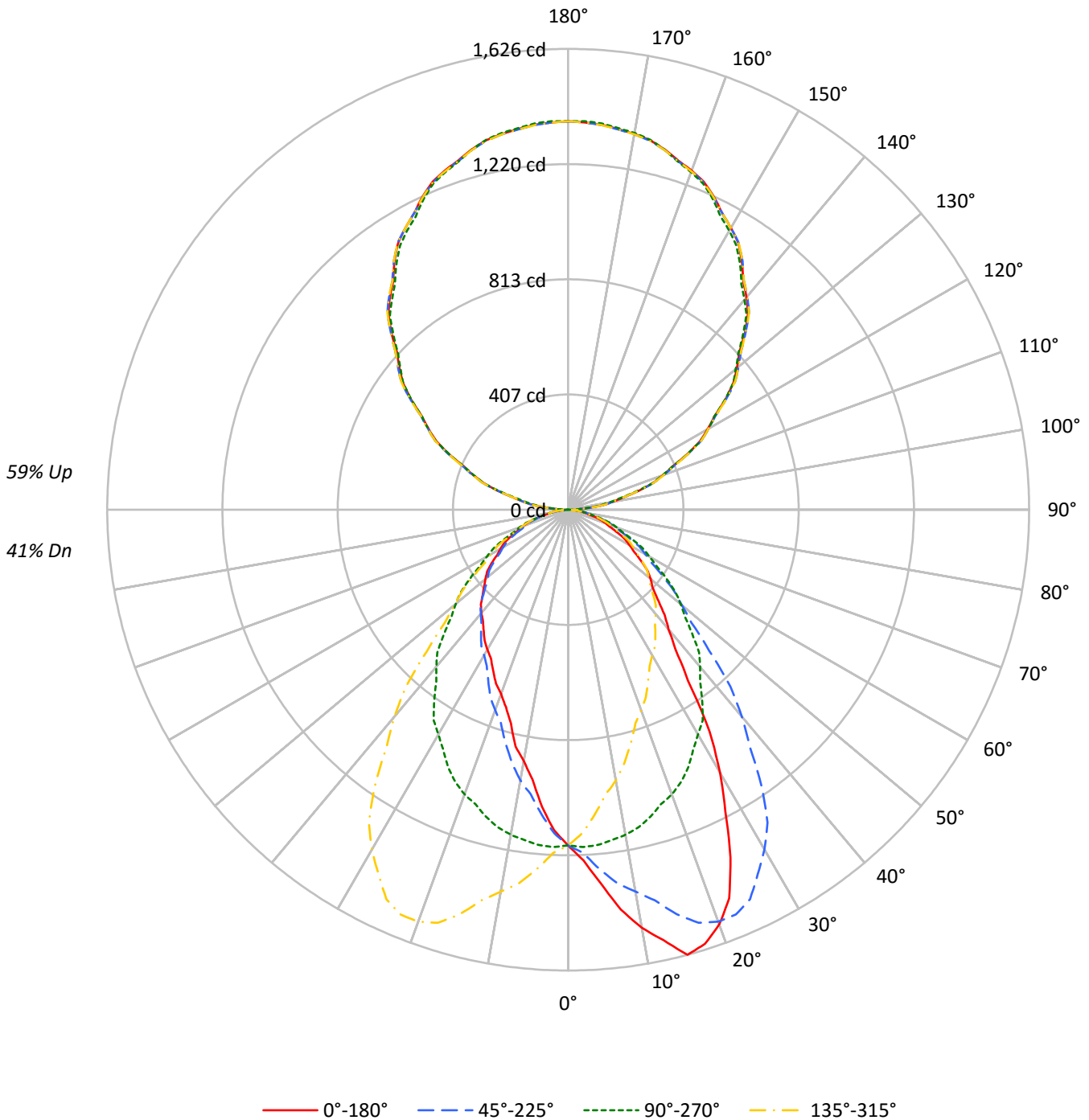
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41					41			
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35					35			
2	88	81	75	70	80	74	69	65	61	57	54	49	46	44	38	36	35	30					30			
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	30	26					26			
4	74	63	56	50	67	58	51	46	48	43	40	39	36	33	31	28	26	22					22			
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20					20			
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18					18			
7	58	46	38	33	53	42	36	31	36	30	27	29	25	22	23	20	18	16					16			
8	54	42	34	29	49	39	32	27	32	27	24	27	23	20	21	19	17	14					14			
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13					13			
10	47	35	28	23	43	32	26	22	27	23	19	23	19	16	18	16	14	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19125	19125	19125	19125
5°	21441	19248	17057	19248
10°	24568	19090	14762	19090
15°	27178	18740	13041	18740
20°	26764	18364	11888	18364
25°	24134	17865	11158	17865
30°	19943	17066	10625	17066
35°	14534	16232	10247	16232
40°	11609	15247	10037	15247
45°	10145	14104	9750	14104
50°	9535	12999	9560	12999
55°	8791	11879	9303	11879
60°	8054	10685	8909	10685
65°	7339	9616	8520	9616
70°	6661	8573	7950	8573
75°	5908	7411	7043	7411
80°	5086	6137	5672	6137
85°	4557	4557	3372	4557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.7
10°-20°	327.9	5.1
20°-30°	475.9	7.4
30°-40°	502.2	7.8
40°-50°	444.7	6.9
50°-60°	354.9	5.5
60°-70°	241.2	3.7
70°-80°	123.7	1.9
80°-90°	35.3	0.5
90°-100°	86.8	1.3
100°-110°	269.6	4.2
110°-120°	460.9	7.1
120°-130°	606.1	9.4
130°-140°	680.3	10.5
140°-150°	667.1	10.3
150°-160°	559.5	8.7
160°-170°	371.1	5.8
170°-180°	129.7	2.0
0°-30°	916.7	14.2
0°-40°	1418.9	22.0
0°-60°	2218.4	34.4
0°-90°	2618.6	40.6
90°-120°	817.4	12.7
90°-150°	2770.9	43.0
90°-180°	3831.0	59.4
0°-180°	6449.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1184	1184	1184	1184	1184	
5°	1323	1188	1052	1188	1323	132
15°	1626	1121	780	1121	1626	449
25°	1355	1003	626	1003	1355	612
35°	737	824	520	824	737	480
45°	444	618	427	618	444	349
55°	312	422	330	422	312	280
65°	192	252	223	252	192	191
75°	95	119	113	119	95	101
85°	25	25	18	25	25	28
90°	39	1	39	1	39	18
95°	72	60	72	60	72	80
105°	257	249	257	249	257	270
115°	462	462	462	462	462	457
125°	675	673	675	673	675	602
135°	881	871	881	871	881	678
145°	1068	1057	1068	1057	1068	667
155°	1218	1208	1218	1208	1218	560
165°	1316	1315	1316	1315	1316	371
175°	1363	1368	1363	1368	1363	130
180°	1370	1370	1370	1370	1370	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1239.0	1239.4	1240.2	1234.3	1233.6	1233.6	1228.5	1224.1	1219.1	1212.1	1212.8
5°	1322.9	1327.8	1329.6	1324.2	1316.0	1315.1	1307.3	1294.6	1282.7	1273.2	1266.4
7.5°	1422.8	1424.8	1420.3	1413.1	1407.0	1396.2	1381.7	1367.6	1347.8	1329.7	1316.3
10°	1498.5	1501.3	1493.5	1483.1	1474.4	1461.7	1440.7	1419.3	1393.4	1368.3	1348.3
12.5°	1556.0	1562.8	1552.9	1551.5	1536.7	1519.2	1494.2	1483.5	1446.9	1412.0	1390.5
15°	1625.9	1625.5	1626.5	1617.8	1606.9	1604.1	1577.7	1549.1	1497.6	1477.1	1441.6
17.5°	1605.8	1612.7	1615.9	1615.8	1615.5	1613.8	1605.3	1587.2	1561.5	1528.2	1487.2
20°	1557.7	1566.8	1568.2	1578.7	1584.6	1592.3	1595.4	1590.5	1574.6	1546.8	1511.3
22.5°	1483.5	1485.9	1490.2	1506.5	1519.4	1538.7	1548.9	1565.8	1559.6	1546.0	1516.4
25°	1354.7	1350.1	1366.1	1374.2	1403.8	1434.8	1457.1	1481.7	1503.5	1516.7	1508.1
27.5°	1200.1	1193.3	1217.1	1238.9	1262.9	1296.5	1331.2	1372.3	1406.4	1449.1	1463.7
30°	1069.7	1073.8	1096.6	1119.8	1156.2	1203.5	1242.7	1287.8	1336.5	1384.3	1417.5
32.5°	929.2	944.9	959.3	994.9	1026.9	1079.8	1137.1	1193.5	1254.2	1308.5	1359.9
35°	737.4	755.6	775.7	801.6	846.7	899.0	955.0	1031.0	1113.9	1188.1	1249.1
37.5°	620.7	617.8	629.3	648.0	684.6	726.7	791.2	866.4	963.9	1051.1	1137.1
40°	550.8	548.9	557.1	574.4	602.3	633.2	689.6	755.6	846.2	952.7	1055.2
42.5°	502.7	503.8	508.4	520.6	539.6	565.1	607.3	663.5	746.5	846.8	956.8
45°	444.3	447.5	452.5	458.4	469.3	490.3	513.9	554.0	619.6	703.3	811.6
47.5°	402.3	402.3	407.4	412.6	419.1	430.9	450.2	475.3	521.6	589.8	682.9
50°	379.6	376.5	380.1	384.1	391.0	399.2	412.0	435.6	466.5	521.7	599.5
52.5°	352.0	352.0	355.3	356.9	363.0	371.1	382.8	399.2	427.2	470.3	534.3
55°	312.3	314.5	316.4	319.1	324.6	330.5	339.6	350.5	372.4	404.7	452.0
57.5°	274.9	275.6	277.5	282.7	286.1	291.6	300.2	310.1	324.4	348.3	383.9
60°	249.4	249.4	253.1	255.4	259.9	265.4	272.2	281.8	294.5	314.1	342.8
62.5°	226.1	225.8	227.2	231.0	234.4	239.5	246.4	254.5	266.4	283.8	307.5
65°	192.1	191.2	193.9	194.8	198.5	203.5	208.9	217.6	227.1	239.9	260.8
67.5°	159.3	160.4	161.8	163.6	165.6	170.9	174.5	180.7	188.7	199.3	213.5
70°	141.1	141.1	141.1	142.5	145.2	147.9	151.6	156.6	164.3	173.4	186.2
72.5°	120.7	122.2	123.6	122.8	126.3	127.9	132.2	135.1	142.5	148.3	159.6
75°	94.7	94.7	94.7	96.9	98.4	99.7	102.5	105.1	108.8	116.1	122.0
77.5°	70.6	70.4	70.9	71.4	72.9	74.5	75.3	77.8	81.2	84.5	89.6
80°	54.7	55.6	56.0	56.9	56.9	57.8	58.2	61.4	63.8	66.0	69.2
82.5°	42.3	42.4	42.5	42.7	43.1	43.6	44.8	45.8	46.6	48.5	51.0
85°	24.6	24.2	24.2	25.1	24.6	24.6	25.5	26.4	26.4	26.8	28.2
87.5°	17.3	17.3	17.6	17.2	17.1	17.5	17.7	17.4	17.8	18.3	17.6
90°	39.3	39.1	38.8	38.5	38.3	38.4	39.0	39.4	39.9	40.5	34.8
92.5°	37.5	37.5	37.4	37.3	37.3	37.2	37.1	37.0	36.8	36.7	35.4
95°	71.7	72.2	72.7	73.2	73.7	74.0	74.0	74.0	74.0	74.0	73.5
97.5°	124.2	124.2	124.3	124.3	124.4	124.4	124.4	124.4	124.4	124.4	123.4
100°	158.4	158.6	158.9	159.2	159.4	159.5	159.5	159.5	159.5	159.5	158.8
102.5°	197.2	197.5	197.8	198.0	198.3	198.3	198.1	197.9	197.7	197.5	196.5
105°	256.7	256.7	256.7	256.7	256.7	256.5	255.9	255.4	254.9	254.4	253.9
107.5°	312.6	313.8	315.0	316.2	317.4	317.9	317.6	317.4	317.3	317.0	317.0
110°	356.1	356.9	357.7	358.5	359.2	359.6	359.6	359.6	359.6	359.6	359.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	397.7	398.3	398.9	399.4	400.0	400.6	401.2	401.8	402.4	403.1	403.2
115°	462.5	463.2	464.0	464.8	465.6	466.1	466.4	466.6	466.9	467.1	467.6
117.5°	524.2	525.0	525.8	526.6	527.4	528.0	528.6	529.2	529.9	530.5	531.9
120°	567.8	568.5	569.3	570.0	570.8	571.1	571.1	571.1	571.1	571.1	573.2
122.5°	610.3	610.8	611.4	612.0	612.5	613.1	613.8	614.4	614.9	615.5	617.0
125°	675.2	675.5	675.7	676.0	676.3	676.8	677.5	678.3	679.1	679.8	680.6
127.5°	734.4	735.3	736.1	736.9	737.7	738.6	739.5	740.5	741.4	742.3	743.2
130°	776.9	778.0	779.1	780.1	781.1	781.9	782.4	782.9	783.4	783.9	784.4
132.5°	817.7	818.5	819.3	820.2	821.0	822.0	823.0	824.2	825.4	826.4	826.3
135°	881.0	881.8	882.6	883.3	884.1	884.7	884.9	885.2	885.4	885.6	885.2
137.5°	938.4	939.4	940.5	941.5	942.5	943.2	943.3	943.5	943.8	944.0	943.3
140°	978.2	979.2	980.3	981.2	982.3	982.8	982.8	982.8	982.8	982.8	981.5
142.5°	1014.2	1015.3	1016.3	1017.4	1018.3	1018.8	1018.6	1018.3	1018.2	1018.0	1017.1
145°	1068.4	1069.4	1070.4	1071.5	1072.5	1072.8	1072.6	1072.4	1072.1	1071.8	1070.3
147.5°	1116.7	1117.7	1118.7	1119.6	1120.6	1120.8	1120.3	1119.6	1119.1	1118.6	1117.5
150°	1148.2	1148.9	1149.7	1150.5	1151.2	1151.2	1150.5	1149.7	1148.9	1148.2	1147.1
152.5°	1177.8	1178.8	1179.7	1180.6	1181.6	1181.6	1180.6	1179.7	1178.8	1177.8	1176.5
155°	1217.5	1218.3	1219.1	1219.9	1220.6	1220.3	1219.1	1217.8	1216.5	1215.2	1214.4
157.5°	1251.7	1252.9	1254.2	1255.4	1256.7	1256.4	1254.6	1252.9	1251.2	1249.5	1248.9
160°	1273.0	1274.1	1275.1	1276.1	1277.1	1276.8	1275.3	1273.8	1272.2	1270.7	1270.4
162.5°	1291.6	1292.7	1294.0	1295.2	1296.5	1296.2	1294.4	1292.7	1290.9	1289.2	1289.0
165°	1315.8	1317.1	1318.4	1319.6	1320.9	1320.7	1318.8	1317.1	1315.3	1313.5	1313.5
167.5°	1335.7	1337.0	1338.4	1339.7	1341.0	1340.8	1339.0	1337.2	1335.4	1333.6	1333.6
170°	1345.9	1347.4	1349.0	1350.5	1352.0	1351.9	1350.1	1348.3	1346.5	1344.7	1345.0
172.5°	1354.2	1355.8	1357.3	1358.8	1360.3	1360.2	1358.4	1356.6	1354.9	1353.0	1353.3
175°	1363.2	1364.8	1366.3	1367.8	1369.4	1369.2	1367.4	1365.7	1363.9	1362.0	1362.5
177.5°	1367.3	1368.6	1369.8	1371.1	1372.3	1372.3	1371.1	1369.8	1368.6	1367.3	1367.8
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1215.4	1212.5	1210.7	1204.1	1198.3	1192.5	1190.6	1191.3	1183.4	1175.7	1172.4
5°	1262.8	1253.7	1245.0	1232.7	1218.2	1202.2	1194.0	1187.6	1171.7	1154.4	1144.4
7.5°	1305.2	1292.2	1275.5	1252.3	1231.2	1206.1	1190.2	1176.1	1152.7	1128.4	1113.4
10°	1331.1	1313.2	1291.8	1263.6	1237.7	1207.2	1185.8	1164.4	1137.1	1108.0	1089.8
12.5°	1353.3	1329.3	1308.2	1272.0	1241.4	1203.2	1177.8	1147.6	1118.9	1084.3	1066.5
15°	1406.1	1362.0	1321.9	1280.9	1243.1	1189.9	1161.7	1121.1	1083.3	1040.6	1020.1
17.5°	1447.0	1397.4	1334.3	1282.2	1238.1	1179.2	1137.7	1089.2	1044.6	995.6	967.8
20°	1470.3	1413.4	1345.6	1283.7	1230.8	1163.5	1118.5	1068.8	1016.5	961.4	931.3
22.5°	1484.2	1424.3	1357.3	1278.2	1216.3	1150.8	1094.0	1039.6	986.6	927.2	895.6
25°	1488.5	1433.9	1362.9	1273.6	1198.1	1123.9	1055.6	1002.8	938.6	883.1	837.1
27.5°	1466.9	1427.7	1359.4	1265.1	1177.1	1090.3	1014.2	954.4	886.6	826.3	780.2
30°	1440.3	1417.5	1351.0	1256.3	1160.3	1067.0	983.2	915.4	848.0	787.0	739.7
32.5°	1399.1	1394.2	1335.8	1243.9	1142.5	1037.5	950.8	882.3	807.6	747.7	702.6
35°	1318.3	1340.2	1303.2	1216.3	1108.8	995.5	901.8	823.5	746.1	688.8	646.4
37.5°	1210.0	1264.2	1254.5	1175.8	1063.5	949.9	846.3	764.5	690.7	632.8	591.3
40°	1135.2	1204.4	1214.5	1144.9	1031.5	914.5	804.8	723.4	651.4	598.6	556.7
42.5°	1055.2	1136.0	1163.5	1107.7	996.5	877.4	767.7	683.2	612.1	560.7	523.6
45°	920.9	1027.9	1077.5	1045.6	938.2	816.2	703.3	617.7	553.0	504.8	476.2
47.5°	795.3	912.2	978.9	967.7	873.3	752.4	640.9	558.7	495.8	457.3	431.6
50°	706.5	826.6	907.2	910.9	826.6	706.9	594.9	517.5	459.8	423.8	402.9
52.5°	629.3	744.0	831.9	851.1	774.5	659.6	553.8	476.8	425.9	392.8	374.1
55°	528.5	625.4	722.8	758.4	696.9	587.6	489.8	422.0	374.2	351.4	335.0
57.5°	439.3	520.2	610.2	649.4	611.5	518.0	426.2	367.4	328.6	308.6	296.0
60°	392.4	456.1	536.2	583.1	550.4	467.1	386.9	330.9	299.1	281.3	269.5
62.5°	348.7	405.1	472.9	515.8	497.9	419.4	347.6	298.2	270.6	254.0	245.5
65°	287.7	332.3	384.7	424.3	412.4	352.8	294.1	251.7	229.9	216.7	209.8
67.5°	236.9	269.1	305.4	340.1	330.6	288.3	241.2	208.2	191.9	180.6	176.5
70°	204.8	229.4	261.7	289.5	281.8	247.2	209.8	181.6	167.6	157.9	153.8
72.5°	174.2	194.5	219.1	241.8	236.6	207.9	176.7	155.4	144.5	135.7	132.3
75°	131.5	147.0	162.0	177.1	175.7	153.4	135.2	118.8	110.1	103.3	101.9
77.5°	97.1	105.8	116.0	124.9	122.4	109.7	95.4	86.1	79.6	75.1	74.4
80°	74.2	79.2	86.5	92.8	89.7	84.2	72.9	66.0	61.4	56.9	55.1
82.5°	53.8	58.9	63.2	66.6	64.2	59.1	52.1	47.4	44.7	41.6	40.8
85°	28.2	30.9	32.8	33.7	32.8	29.6	26.4	24.6	22.3	21.0	20.5
87.5°	16.8	15.6	14.5	14.4	12.7	12.0	10.0	8.2	8.5	8.7	8.6
90°	29.2	23.5	17.8	13.5	10.4	7.3	4.3	1.2	4.3	7.3	10.4
92.5°	34.1	32.7	31.4	29.6	27.4	25.1	22.8	20.6	22.8	25.1	27.4
95°	72.9	72.5	72.0	70.4	67.9	65.3	62.7	60.1	62.7	65.3	67.9
97.5°	122.4	121.5	120.5	118.9	116.6	114.4	112.1	109.9	112.1	114.4	116.6
100°	158.0	157.2	156.5	155.1	153.0	151.0	148.9	146.9	148.9	151.0	153.0
102.5°	195.6	194.6	193.6	192.3	190.6	189.0	187.3	185.7	187.3	189.0	190.6
105°	253.3	252.8	252.4	251.6	250.9	250.1	249.3	248.6	249.3	250.1	250.9
107.5°	317.0	317.0	317.0	316.5	315.3	314.2	313.1	311.9	313.1	314.2	315.3
110°	359.6	359.6	359.6	358.8	357.3	355.7	354.2	352.7	354.2	355.7	357.3



TEST NUMBER: P331544-940

CATALOG NUMBER: S122DIW-S675D1240U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	403.5	403.7	403.9	403.2	401.7	400.1	398.6	397.1	398.6	400.1	401.7
115°	468.1	468.7	469.1	468.7	467.1	465.6	464.0	462.5	464.0	465.6	467.1
117.5°	533.3	534.8	536.3	535.9	533.9	531.8	529.8	527.7	529.8	531.8	533.9
120°	575.3	577.4	579.4	579.4	577.4	575.3	573.2	571.1	573.2	575.3	577.4
122.5°	618.5	619.9	621.3	620.8	618.3	615.9	613.4	610.9	613.4	615.9	618.3
125°	681.4	682.2	683.0	682.2	679.8	677.5	675.2	672.9	675.2	677.5	679.8
127.5°	744.1	745.1	746.0	745.0	742.1	739.1	736.2	733.3	736.2	739.1	742.1
130°	785.0	785.5	786.0	784.5	781.2	777.9	774.5	771.2	774.5	777.9	781.2
132.5°	826.3	826.2	826.1	824.7	821.9	819.2	816.5	813.8	816.5	819.2	821.9
135°	884.7	884.1	883.6	882.0	879.1	876.3	873.4	870.7	873.4	876.3	879.1
137.5°	942.6	941.9	941.3	939.8	937.5	935.1	932.8	930.5	932.8	935.1	937.5
140°	980.3	978.9	977.7	975.9	973.6	971.3	968.9	966.6	968.9	971.3	973.6
142.5°	1016.2	1015.3	1014.4	1012.9	1010.6	1008.3	1005.9	1003.6	1005.9	1008.3	1010.6
145°	1068.7	1067.2	1065.7	1064.0	1062.2	1060.4	1058.6	1056.8	1058.6	1060.4	1062.2
147.5°	1116.5	1115.4	1114.5	1112.9	1110.7	1108.5	1106.3	1104.2	1106.3	1108.5	1110.7
150°	1146.1	1145.0	1144.1	1142.7	1141.2	1139.7	1138.1	1136.6	1138.1	1139.7	1141.2
152.5°	1175.3	1174.0	1172.8	1171.4	1169.8	1168.3	1166.8	1165.3	1166.8	1168.3	1169.8
155°	1213.6	1212.9	1212.1	1211.4	1210.6	1209.8	1209.1	1208.3	1209.1	1209.8	1210.6
157.5°	1248.5	1248.0	1247.6	1247.1	1246.6	1246.1	1245.5	1245.0	1245.5	1246.1	1246.6
160°	1270.2	1269.9	1269.7	1269.3	1268.8	1268.3	1267.7	1267.2	1267.7	1268.3	1268.8
162.5°	1288.7	1288.4	1288.2	1288.0	1287.9	1287.8	1287.7	1287.5	1287.7	1287.8	1287.9
165°	1313.5	1313.5	1313.5	1313.6	1313.8	1314.1	1314.4	1314.6	1314.4	1314.1	1313.8
167.5°	1333.7	1333.7	1333.8	1334.2	1335.0	1335.8	1336.5	1337.3	1336.5	1335.8	1335.0
170°	1345.2	1345.5	1345.8	1346.2	1347.0	1347.8	1348.5	1349.3	1348.5	1347.8	1347.0
172.5°	1353.5	1353.8	1354.1	1354.6	1355.3	1356.1	1356.9	1357.6	1356.9	1356.1	1355.3
175°	1363.1	1363.6	1364.1	1364.8	1365.5	1366.3	1367.1	1367.8	1367.1	1366.3	1365.5
177.5°	1368.2	1368.6	1369.0	1369.5	1370.1	1370.7	1371.4	1372.0	1371.4	1370.7	1370.1
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



TEST NUMBER: P331544-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1168.8	1166.6	1159.0	1154.9	1148.3	1142.2	1138.2	1140.1	1141.5	1140.8	1139.6
5°	1135.2	1126.6	1113.4	1102.1	1093.9	1078.8	1072.5	1069.3	1066.6	1063.4	1060.2
7.5°	1095.4	1081.7	1062.8	1046.6	1031.3	1012.6	1002.0	995.6	989.1	981.9	975.5
10°	1067.0	1047.8	1027.9	1005.0	986.9	970.0	955.0	945.0	935.9	927.3	920.9
12.5°	1037.1	1015.1	990.3	959.2	939.1	915.1	912.8	895.1	880.9	875.6	868.1
15°	989.6	958.7	927.3	890.4	874.4	852.6	838.9	825.3	813.0	804.3	802.1
17.5°	935.6	895.5	864.3	837.9	811.7	789.3	776.8	765.8	755.7	744.1	742.6
20°	894.5	859.9	825.7	802.5	775.7	752.9	737.4	726.5	717.8	711.1	705.1
22.5°	855.5	817.6	786.4	761.0	734.5	716.1	703.9	693.4	686.2	678.6	673.1
25°	793.0	763.4	729.2	700.5	678.7	666.9	656.8	647.7	643.2	638.2	631.9
27.5°	738.2	705.3	673.4	651.2	632.0	621.5	614.4	608.2	604.0	601.0	597.4
30°	699.6	666.4	641.4	619.6	603.6	593.2	588.6	585.0	580.0	578.1	576.3
32.5°	662.5	632.6	611.2	592.2	577.0	570.2	566.0	562.8	558.8	557.0	553.3
35°	609.9	585.0	564.0	553.5	541.3	535.3	532.2	527.5	524.0	522.1	521.7
37.5°	560.5	538.8	525.0	511.6	506.4	502.7	498.4	495.3	494.2	493.9	493.5
40°	528.5	510.8	498.5	487.5	485.3	479.7	476.2	473.4	473.4	473.9	473.4
42.5°	499.4	483.4	472.6	463.2	460.5	457.2	453.5	453.3	454.1	455.7	454.1
45°	455.2	443.8	436.0	431.5	426.5	423.3	422.8	424.3	424.7	425.2	426.5
47.5°	414.6	407.1	400.0	395.0	392.8	392.3	391.7	394.1	396.3	397.1	399.2
50°	390.6	381.9	376.0	372.8	371.0	370.1	371.0	373.7	375.5	377.8	379.2
52.5°	363.6	357.5	353.4	351.0	350.3	350.8	351.0	354.1	357.0	357.8	358.5
55°	326.4	321.8	320.9	316.8	318.6	318.2	320.5	322.3	325.0	327.7	328.2
57.5°	289.3	285.6	283.1	283.5	284.0	286.1	287.9	291.1	294.1	296.9	297.2
60°	264.5	262.6	261.3	261.3	262.2	264.9	267.2	270.4	272.2	274.0	275.4
62.5°	241.9	240.0	238.7	239.4	241.8	243.4	246.1	247.8	249.6	251.5	252.1
65°	206.2	205.3	206.7	207.6	208.0	210.3	213.5	214.8	216.7	217.6	220.8
67.5°	173.3	173.5	173.3	174.6	177.3	177.8	180.8	184.0	184.3	186.1	188.2
70°	151.1	152.0	152.9	153.8	156.1	157.0	159.3	160.7	162.5	163.9	165.2
72.5°	130.7	130.9	131.8	131.6	133.6	135.5	137.5	138.8	140.6	142.4	143.7
75°	100.6	100.6	101.5	101.9	104.2	106.6	106.0	107.0	108.8	110.6	111.6
77.5°	73.5	72.5	73.5	73.9	74.6	76.6	77.0	78.2	80.3	79.6	80.7
80°	56.0	54.7	56.0	56.4	56.4	58.8	58.8	59.7	61.0	59.7	61.0
82.5°	39.9	39.3	40.3	40.4	41.1	41.2	42.0	42.2	43.5	42.9	43.5
85°	20.1	19.6	20.1	19.6	20.1	20.5	20.5	20.1	20.1	21.0	19.6
87.5°	8.9	9.4	10.2	11.3	12.0	12.8	12.4	12.2	12.1	11.3	11.3
90°	13.5	17.8	23.5	29.2	34.8	40.5	39.9	39.4	39.0	38.4	38.3
92.5°	29.6	31.4	32.7	34.1	35.4	36.7	36.8	37.0	37.1	37.2	37.3
95°	70.4	72.0	72.5	72.9	73.5	74.0	74.0	74.0	74.0	74.0	73.7
97.5°	118.9	120.5	121.5	122.4	123.4	124.4	124.4	124.4	124.4	124.4	124.4
100°	155.1	156.5	157.2	158.0	158.8	159.5	159.5	159.5	159.5	159.5	159.4
102.5°	192.3	193.6	194.6	195.6	196.5	197.5	197.7	197.9	198.1	198.3	198.3
105°	251.6	252.4	252.8	253.3	253.9	254.4	254.9	255.4	255.9	256.5	256.7
107.5°	316.5	317.0	317.0	317.0	317.0	317.0	317.3	317.4	317.6	317.9	317.4
110°	358.8	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	403.2	403.9	403.7	403.5	403.2	403.1	402.4	401.8	401.2	400.6	400.0
115°	468.7	469.1	468.7	468.1	467.6	467.1	466.9	466.6	466.4	466.1	465.6
117.5°	535.9	536.3	534.8	533.3	531.9	530.5	529.9	529.2	528.6	528.0	527.4
120°	579.4	579.4	577.4	575.3	573.2	571.1	571.1	571.1	571.1	571.1	570.8
122.5°	620.8	621.3	619.9	618.5	617.0	615.5	614.9	614.4	613.8	613.1	612.5
125°	682.2	683.0	682.2	681.4	680.6	679.8	679.1	678.3	677.5	676.8	676.3
127.5°	745.0	746.0	745.1	744.1	743.2	742.3	741.4	740.5	739.5	738.6	737.7
130°	784.5	786.0	785.5	785.0	784.4	783.9	783.4	782.9	782.4	781.9	781.1
132.5°	824.7	826.1	826.2	826.3	826.3	826.4	825.4	824.2	823.0	822.0	821.0
135°	882.0	883.6	884.1	884.7	885.2	885.6	885.4	885.2	884.9	884.7	884.1
137.5°	939.8	941.3	941.9	942.6	943.3	944.0	943.8	943.5	943.3	943.2	942.5
140°	975.9	977.7	978.9	980.3	981.5	982.8	982.8	982.8	982.8	982.8	982.3
142.5°	1012.9	1014.4	1015.3	1016.2	1017.1	1018.0	1018.2	1018.3	1018.6	1018.8	1018.3
145°	1064.0	1065.7	1067.2	1068.7	1070.3	1071.8	1072.1	1072.4	1072.6	1072.8	1072.5
147.5°	1112.9	1114.5	1115.4	1116.5	1117.5	1118.6	1119.1	1119.6	1120.3	1120.8	1120.6
150°	1142.7	1144.1	1145.0	1146.1	1147.1	1148.2	1148.9	1149.7	1150.5	1151.2	1151.2
152.5°	1171.4	1172.8	1174.0	1175.3	1176.5	1177.8	1178.8	1179.7	1180.6	1181.6	1181.6
155°	1211.4	1212.1	1212.9	1213.6	1214.4	1215.2	1216.5	1217.8	1219.1	1220.3	1220.6
157.5°	1247.1	1247.6	1248.0	1248.5	1248.9	1249.5	1251.2	1252.9	1254.6	1256.4	1256.7
160°	1269.3	1269.7	1269.9	1270.2	1270.4	1270.7	1272.2	1273.8	1275.3	1276.8	1277.1
162.5°	1288.0	1288.2	1288.4	1288.7	1289.0	1289.2	1290.9	1292.7	1294.4	1296.2	1296.5
165°	1313.6	1313.5	1313.5	1313.5	1313.5	1313.5	1315.3	1317.1	1318.8	1320.7	1320.9
167.5°	1334.2	1333.8	1333.7	1333.7	1333.6	1333.6	1335.4	1337.2	1339.0	1340.8	1341.0
170°	1346.2	1345.8	1345.5	1345.2	1345.0	1344.7	1346.5	1348.3	1350.1	1351.9	1352.0
172.5°	1354.6	1354.1	1353.8	1353.5	1353.3	1353.0	1354.9	1356.6	1358.4	1360.2	1360.3
175°	1364.8	1364.1	1363.6	1363.1	1362.5	1362.0	1363.9	1365.7	1367.4	1369.2	1369.4
177.5°	1369.5	1369.0	1368.6	1368.2	1367.8	1367.3	1368.6	1369.8	1371.1	1372.3	1372.3
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



TEST NUMBER: P331544-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1136.0	1135.2	1135.2	1132.0	1135.2	1135.2	1136.0	1139.6	1140.8	1141.5	1140.1
5°	1053.8	1052.4	1050.2	1052.4	1050.2	1052.4	1053.8	1060.2	1063.4	1066.6	1069.3
7.5°	972.5	967.1	966.3	960.8	966.3	967.1	972.5	975.5	981.9	989.1	995.6
10°	913.1	909.5	909.0	900.4	909.0	909.5	913.1	920.9	927.3	935.9	945.0
12.5°	868.0	859.3	860.9	856.0	860.9	859.3	868.0	868.1	875.6	880.9	895.1
15°	789.8	789.8	787.9	780.2	787.9	789.8	789.8	802.1	804.3	813.0	825.3
17.5°	733.6	732.7	728.3	730.5	728.3	732.7	733.6	742.6	744.1	755.7	765.8
20°	700.1	697.4	691.9	691.9	691.9	697.4	700.1	705.1	711.1	717.8	726.5
22.5°	668.4	668.2	662.5	664.2	662.5	668.2	668.4	673.1	678.6	686.2	693.4
25°	631.3	627.8	625.0	626.3	625.0	627.8	631.3	631.9	638.2	643.2	647.7
27.5°	596.2	594.2	594.1	590.3	594.1	594.2	596.2	597.4	601.0	604.0	608.2
30°	575.9	571.3	572.2	569.9	572.2	571.3	575.9	576.3	578.1	580.0	585.0
32.5°	552.5	550.9	550.0	548.0	550.0	550.9	552.5	553.3	557.0	558.8	562.8
35°	520.8	521.2	519.0	519.9	519.0	521.2	520.8	521.7	522.1	524.0	527.5
37.5°	493.0	494.5	493.4	493.7	493.4	494.5	493.0	493.5	493.9	494.2	495.3
40°	474.7	474.7	474.7	476.2	474.7	474.7	474.7	473.4	473.9	473.4	473.4
42.5°	457.3	456.6	455.8	455.8	455.8	456.6	457.3	454.1	455.7	454.1	453.3
45°	427.4	428.8	429.3	427.0	429.3	428.8	427.4	426.5	425.2	424.7	424.3
47.5°	400.4	400.6	400.4	402.4	400.4	400.6	400.4	399.2	397.1	396.3	394.1
50°	381.5	380.6	381.5	380.6	381.5	380.6	381.5	379.2	377.8	375.5	373.7
52.5°	361.4	361.6	361.1	360.9	361.1	361.6	361.4	358.5	357.8	357.0	354.1
55°	330.0	330.9	330.5	330.5	330.5	330.9	330.0	328.2	327.7	325.0	322.3
57.5°	297.6	298.4	299.0	296.9	299.0	298.4	297.6	297.2	296.9	294.1	291.1
60°	274.9	277.2	276.8	275.9	276.8	277.2	274.9	275.4	274.0	272.2	270.4
62.5°	254.2	255.0	254.9	254.8	254.9	255.0	254.2	252.1	251.5	249.6	247.8
65°	222.1	223.0	221.7	223.0	221.7	223.0	222.1	220.8	217.6	216.7	214.8
67.5°	187.6	187.9	189.0	189.6	189.0	187.9	187.6	188.2	186.1	184.3	184.0
70°	166.1	165.7	167.0	168.4	167.0	165.7	166.1	165.2	163.9	162.5	160.7
72.5°	143.6	144.5	144.1	145.1	144.1	144.5	143.6	143.7	142.4	140.6	138.8
75°	110.6	112.0	111.6	112.9	111.6	112.0	110.6	111.6	110.6	108.8	107.0
77.5°	79.9	80.1	79.9	80.7	79.9	80.1	79.9	80.7	79.6	80.3	78.2
80°	61.0	60.1	59.2	61.0	59.2	60.1	61.0	61.0	59.7	61.0	59.7
82.5°	42.4	43.0	42.1	42.1	42.1	43.0	42.4	43.5	42.9	43.5	42.2
85°	19.6	19.1	18.2	18.2	18.2	19.1	19.6	19.6	21.0	20.1	20.1
87.5°	11.3	11.1	11.1	10.8	11.1	11.1	11.3	11.3	11.3	12.1	12.2
90°	38.5	38.8	39.1	39.3	39.1	38.8	38.5	38.3	38.4	39.0	39.4
92.5°	37.3	37.4	37.5	37.5	37.5	37.4	37.3	37.3	37.2	37.1	37.0
95°	73.2	72.7	72.2	71.7	72.2	72.7	73.2	73.7	74.0	74.0	74.0
97.5°	124.3	124.3	124.2	124.2	124.2	124.3	124.3	124.4	124.4	124.4	124.4
100°	159.2	158.9	158.6	158.4	158.6	158.9	159.2	159.4	159.5	159.5	159.5
102.5°	198.0	197.8	197.5	197.2	197.5	197.8	198.0	198.3	198.3	198.1	197.9
105°	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.5	255.9	255.4
107.5°	316.2	315.0	313.8	312.6	313.8	315.0	316.2	317.4	317.9	317.6	317.4
110°	358.5	357.7	356.9	356.1	356.9	357.7	358.5	359.2	359.6	359.6	359.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	399.4	398.9	398.3	397.7	398.3	398.9	399.4	400.0	400.6	401.2	401.8
115°	464.8	464.0	463.2	462.5	463.2	464.0	464.8	465.6	466.1	466.4	466.6
117.5°	526.6	525.8	525.0	524.2	525.0	525.8	526.6	527.4	528.0	528.6	529.2
120°	570.0	569.3	568.5	567.8	568.5	569.3	570.0	570.8	571.1	571.1	571.1
122.5°	612.0	611.4	610.8	610.3	610.8	611.4	612.0	612.5	613.1	613.8	614.4
125°	676.0	675.7	675.5	675.2	675.5	675.7	676.0	676.3	676.8	677.5	678.3
127.5°	736.9	736.1	735.3	734.4	735.3	736.1	736.9	737.7	738.6	739.5	740.5
130°	780.1	779.1	778.0	776.9	778.0	779.1	780.1	781.1	781.9	782.4	782.9
132.5°	820.2	819.3	818.5	817.7	818.5	819.3	820.2	821.0	822.0	823.0	824.2
135°	883.3	882.6	881.8	881.0	881.8	882.6	883.3	884.1	884.7	884.9	885.2
137.5°	941.5	940.5	939.4	938.4	939.4	940.5	941.5	942.5	943.2	943.3	943.5
140°	981.2	980.3	979.2	978.2	979.2	980.3	981.2	982.3	982.8	982.8	982.8
142.5°	1017.4	1016.3	1015.3	1014.2	1015.3	1016.3	1017.4	1018.3	1018.8	1018.6	1018.3
145°	1071.5	1070.4	1069.4	1068.4	1069.4	1070.4	1071.5	1072.5	1072.8	1072.6	1072.4
147.5°	1119.6	1118.7	1117.7	1116.7	1117.7	1118.7	1119.6	1120.6	1120.8	1120.3	1119.6
150°	1150.5	1149.7	1148.9	1148.2	1148.9	1149.7	1150.5	1151.2	1151.2	1150.5	1149.7
152.5°	1180.6	1179.7	1178.8	1177.8	1178.8	1179.7	1180.6	1181.6	1181.6	1180.6	1179.7
155°	1219.9	1219.1	1218.3	1217.5	1218.3	1219.1	1219.9	1220.6	1220.3	1219.1	1217.8
157.5°	1255.4	1254.2	1252.9	1251.7	1252.9	1254.2	1255.4	1256.7	1256.4	1254.6	1252.9
160°	1276.1	1275.1	1274.1	1273.0	1274.1	1275.1	1276.1	1277.1	1276.8	1275.3	1273.8
162.5°	1295.2	1294.0	1292.7	1291.6	1292.7	1294.0	1295.2	1296.5	1296.2	1294.4	1292.7
165°	1319.6	1318.4	1317.1	1315.8	1317.1	1318.4	1319.6	1320.9	1320.7	1318.8	1317.1
167.5°	1339.7	1338.4	1337.0	1335.7	1337.0	1338.4	1339.7	1341.0	1340.8	1339.0	1337.2
170°	1350.5	1349.0	1347.4	1345.9	1347.4	1349.0	1350.5	1352.0	1351.9	1350.1	1348.3
172.5°	1358.8	1357.3	1355.8	1354.2	1355.8	1357.3	1358.8	1360.3	1360.2	1358.4	1356.6
175°	1367.8	1366.3	1364.8	1363.2	1364.8	1366.3	1367.8	1369.4	1369.2	1367.4	1365.7
177.5°	1371.1	1369.8	1368.6	1367.3	1368.6	1369.8	1371.1	1372.3	1372.3	1371.1	1369.8
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1138.2	1142.2	1148.3	1154.9	1159.0	1166.6	1168.8	1172.4	1175.7	1183.4	1191.3
5°	1072.5	1078.8	1093.9	1102.1	1113.4	1126.6	1135.2	1144.4	1154.4	1171.7	1187.6
7.5°	1002.0	1012.6	1031.3	1046.6	1062.8	1081.7	1095.4	1113.4	1128.4	1152.7	1176.1
10°	955.0	970.0	986.9	1005.0	1027.9	1047.8	1067.0	1089.8	1108.0	1137.1	1164.4
12.5°	912.8	915.1	939.1	959.2	990.3	1015.1	1037.1	1066.5	1084.3	1118.9	1147.6
15°	838.9	852.6	874.4	890.4	927.3	958.7	989.6	1020.1	1040.6	1083.3	1121.1
17.5°	776.8	789.3	811.7	837.9	864.3	895.5	935.6	967.8	995.6	1044.6	1089.2
20°	737.4	752.9	775.7	802.5	825.7	859.9	894.5	931.3	961.4	1016.5	1068.8
22.5°	703.9	716.1	734.5	761.0	786.4	817.6	855.5	895.6	927.2	986.6	1039.6
25°	656.8	666.9	678.7	700.5	729.2	763.4	793.0	837.1	883.1	938.6	1002.8
27.5°	614.4	621.5	632.0	651.2	673.4	705.3	738.2	780.2	826.3	886.6	954.4
30°	588.6	593.2	603.6	619.6	641.4	666.4	699.6	739.7	787.0	848.0	915.4
32.5°	566.0	570.2	577.0	592.2	611.2	632.6	662.5	702.6	747.7	807.6	882.3
35°	532.2	535.3	541.3	553.5	564.0	585.0	609.9	646.4	688.8	746.1	823.5
37.5°	498.4	502.7	506.4	511.6	525.0	538.8	560.5	591.3	632.8	690.7	764.5
40°	476.2	479.7	485.3	487.5	498.5	510.8	528.5	556.7	598.6	651.4	723.4
42.5°	453.5	457.2	460.5	463.2	472.6	483.4	499.4	523.6	560.7	612.1	683.2
45°	422.8	423.3	426.5	431.5	436.0	443.8	455.2	476.2	504.8	553.0	617.7
47.5°	391.7	392.3	392.8	395.0	400.0	407.1	414.6	431.6	457.3	495.8	558.7
50°	371.0	370.1	371.0	372.8	376.0	381.9	390.6	402.9	423.8	459.8	517.5
52.5°	351.0	350.8	350.3	351.0	353.4	357.5	363.6	374.1	392.8	425.9	476.8
55°	320.5	318.2	318.6	316.8	320.9	321.8	326.4	335.0	351.4	374.2	422.0
57.5°	287.9	286.1	284.0	283.5	283.1	285.6	289.3	296.0	308.6	328.6	367.4
60°	267.2	264.9	262.2	261.3	261.3	262.6	264.5	269.5	281.3	299.1	330.9
62.5°	246.1	243.4	241.8	239.4	238.7	240.0	241.9	245.5	254.0	270.6	298.2
65°	213.5	210.3	208.0	207.6	206.7	205.3	206.2	209.8	216.7	229.9	251.7
67.5°	180.8	177.8	177.3	174.6	173.3	173.5	173.3	176.5	180.6	191.9	208.2
70°	159.3	157.0	156.1	153.8	152.9	152.0	151.1	153.8	157.9	167.6	181.6
72.5°	137.5	135.5	133.6	131.6	131.8	130.9	130.7	132.3	135.7	144.5	155.4
75°	106.0	106.6	104.2	101.9	101.5	100.6	100.6	101.9	103.3	110.1	118.8
77.5°	77.0	76.6	74.6	73.9	73.5	72.5	73.5	74.4	75.1	79.6	86.1
80°	58.8	58.8	56.4	56.4	56.0	54.7	56.0	55.1	56.9	61.4	66.0
82.5°	42.0	41.2	41.1	40.4	40.3	39.3	39.9	40.8	41.6	44.7	47.4
85°	20.5	20.5	20.1	19.6	20.1	19.6	20.1	20.5	21.0	22.3	24.6
87.5°	12.4	12.8	12.0	11.3	10.2	9.4	8.9	8.6	8.7	8.5	8.2
90°	39.9	40.5	34.8	29.2	23.5	17.8	13.5	10.4	7.3	4.3	1.2
92.5°	36.8	36.7	35.4	34.1	32.7	31.4	29.6	27.4	25.1	22.8	20.6
95°	74.0	74.0	73.5	72.9	72.5	72.0	70.4	67.9	65.3	62.7	60.1
97.5°	124.4	124.4	123.4	122.4	121.5	120.5	118.9	116.6	114.4	112.1	109.9
100°	159.5	159.5	158.8	158.0	157.2	156.5	155.1	153.0	151.0	148.9	146.9
102.5°	197.7	197.5	196.5	195.6	194.6	193.6	192.3	190.6	189.0	187.3	185.7
105°	254.9	254.4	253.9	253.3	252.8	252.4	251.6	250.9	250.1	249.3	248.6
107.5°	317.3	317.0	317.0	317.0	317.0	317.0	316.5	315.3	314.2	313.1	311.9
110°	359.6	359.6	359.6	359.6	359.6	359.6	358.8	357.3	355.7	354.2	352.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	402.4	403.1	403.2	403.5	403.7	403.9	403.2	401.7	400.1	398.6	397.1
115°	466.9	467.1	467.6	468.1	468.7	469.1	468.7	467.1	465.6	464.0	462.5
117.5°	529.9	530.5	531.9	533.3	534.8	536.3	535.9	533.9	531.8	529.8	527.7
120°	571.1	571.1	573.2	575.3	577.4	579.4	579.4	577.4	575.3	573.2	571.1
122.5°	614.9	615.5	617.0	618.5	619.9	621.3	620.8	618.3	615.9	613.4	610.9
125°	679.1	679.8	680.6	681.4	682.2	683.0	682.2	679.8	677.5	675.2	672.9
127.5°	741.4	742.3	743.2	744.1	745.1	746.0	745.0	742.1	739.1	736.2	733.3
130°	783.4	783.9	784.4	785.0	785.5	786.0	784.5	781.2	777.9	774.5	771.2
132.5°	825.4	826.4	826.3	826.3	826.2	826.1	824.7	821.9	819.2	816.5	813.8
135°	885.4	885.6	885.2	884.7	884.1	883.6	882.0	879.1	876.3	873.4	870.7
137.5°	943.8	944.0	943.3	942.6	941.9	941.3	939.8	937.5	935.1	932.8	930.5
140°	982.8	982.8	981.5	980.3	978.9	977.7	975.9	973.6	971.3	968.9	966.6
142.5°	1018.2	1018.0	1017.1	1016.2	1015.3	1014.4	1012.9	1010.6	1008.3	1005.9	1003.6
145°	1072.1	1071.8	1070.3	1068.7	1067.2	1065.7	1064.0	1062.2	1060.4	1058.6	1056.8
147.5°	1119.1	1118.6	1117.5	1116.5	1115.4	1114.5	1112.9	1110.7	1108.5	1106.3	1104.2
150°	1148.9	1148.2	1147.1	1146.1	1145.0	1144.1	1142.7	1141.2	1139.7	1138.1	1136.6
152.5°	1178.8	1177.8	1176.5	1175.3	1174.0	1172.8	1171.4	1169.8	1168.3	1166.8	1165.3
155°	1216.5	1215.2	1214.4	1213.6	1212.9	1212.1	1211.4	1210.6	1209.8	1209.1	1208.3
157.5°	1251.2	1249.5	1248.9	1248.5	1248.0	1247.6	1247.1	1246.6	1246.1	1245.5	1245.0
160°	1272.2	1270.7	1270.4	1270.2	1269.9	1269.7	1269.3	1268.8	1268.3	1267.7	1267.2
162.5°	1290.9	1289.2	1289.0	1288.7	1288.4	1288.2	1288.0	1287.9	1287.8	1287.7	1287.5
165°	1315.3	1313.5	1313.5	1313.5	1313.5	1313.5	1313.6	1313.8	1314.1	1314.4	1314.6
167.5°	1335.4	1333.6	1333.6	1333.7	1333.7	1333.8	1334.2	1335.0	1335.8	1336.5	1337.3
170°	1346.5	1344.7	1345.0	1345.2	1345.5	1345.8	1346.2	1347.0	1347.8	1348.5	1349.3
172.5°	1354.9	1353.0	1353.3	1353.5	1353.8	1354.1	1354.6	1355.3	1356.1	1356.9	1357.6
175°	1363.9	1362.0	1362.5	1363.1	1363.6	1364.1	1364.8	1365.5	1366.3	1367.1	1367.8
177.5°	1368.6	1367.3	1367.8	1368.2	1368.6	1369.0	1369.5	1370.1	1370.7	1371.4	1372.0
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1190.6	1192.5	1198.3	1204.1	1210.7	1212.5	1215.4	1212.8	1212.1	1219.1	1224.1
5°	1194.0	1202.2	1218.2	1232.7	1245.0	1253.7	1262.8	1266.4	1273.2	1282.7	1294.6
7.5°	1190.2	1206.1	1231.2	1252.3	1275.5	1292.2	1305.2	1316.3	1329.7	1347.8	1367.6
10°	1185.8	1207.2	1237.7	1263.6	1291.8	1313.2	1331.1	1348.3	1368.3	1393.4	1419.3
12.5°	1177.8	1203.2	1241.4	1272.0	1308.2	1329.3	1353.3	1390.5	1412.0	1446.9	1483.5
15°	1161.7	1189.9	1243.1	1280.9	1321.9	1362.0	1406.1	1441.6	1477.1	1497.6	1549.1
17.5°	1137.7	1179.2	1238.1	1282.2	1334.3	1397.4	1447.0	1487.2	1528.2	1561.5	1587.2
20°	1118.5	1163.5	1230.8	1283.7	1345.6	1413.4	1470.3	1511.3	1546.8	1574.6	1590.5
22.5°	1094.0	1150.8	1216.3	1278.2	1357.3	1424.3	1484.2	1516.4	1546.0	1559.6	1565.8
25°	1055.6	1123.9	1198.1	1273.6	1362.9	1433.9	1488.5	1508.1	1516.7	1503.5	1481.7
27.5°	1014.2	1090.3	1177.1	1265.1	1359.4	1427.7	1466.9	1463.7	1449.1	1406.4	1372.3
30°	983.2	1067.0	1160.3	1256.3	1351.0	1417.5	1440.3	1417.5	1384.3	1336.5	1287.8
32.5°	950.8	1037.5	1142.5	1243.9	1335.8	1394.2	1399.1	1359.9	1308.5	1254.2	1193.5
35°	901.8	995.5	1108.8	1216.3	1303.2	1340.2	1318.3	1249.1	1188.1	1113.9	1031.0
37.5°	846.3	949.9	1063.5	1175.8	1254.5	1264.2	1210.0	1137.1	1051.1	963.9	866.4
40°	804.8	914.5	1031.5	1144.9	1214.5	1204.4	1135.2	1055.2	952.7	846.2	755.6
42.5°	767.7	877.4	996.5	1107.7	1163.5	1136.0	1055.2	956.8	846.8	746.5	663.5
45°	703.3	816.2	938.2	1045.6	1077.5	1027.9	920.9	811.6	703.3	619.6	554.0
47.5°	640.9	752.4	873.3	967.7	978.9	912.2	795.3	682.9	589.8	521.6	475.3
50°	594.9	706.9	826.6	910.9	907.2	826.6	706.5	599.5	521.7	466.5	435.6
52.5°	553.8	659.6	774.5	851.1	831.9	744.0	629.3	534.3	470.3	427.2	399.2
55°	489.8	587.6	696.9	758.4	722.8	625.4	528.5	452.0	404.7	372.4	350.5
57.5°	426.2	518.0	611.5	649.4	610.2	520.2	439.3	383.9	348.3	324.4	310.1
60°	386.9	467.1	550.4	583.1	536.2	456.1	392.4	342.8	314.1	294.5	281.8
62.5°	347.6	419.4	497.9	515.8	472.9	405.1	348.7	307.5	283.8	266.4	254.5
65°	294.1	352.8	412.4	424.3	384.7	332.3	287.7	260.8	239.9	227.1	217.6
67.5°	241.2	288.3	330.6	340.1	305.4	269.1	236.9	213.5	199.3	188.7	180.7
70°	209.8	247.2	281.8	289.5	261.7	229.4	204.8	186.2	173.4	164.3	156.6
72.5°	176.7	207.9	236.6	241.8	219.1	194.5	174.2	159.6	148.3	142.5	135.1
75°	135.2	153.4	175.7	177.1	162.0	147.0	131.5	122.0	116.1	108.8	105.1
77.5°	95.4	109.7	122.4	124.9	116.0	105.8	97.1	89.6	84.5	81.2	77.8
80°	72.9	84.2	89.7	92.8	86.5	79.2	74.2	69.2	66.0	63.8	61.4
82.5°	52.1	59.1	64.2	66.6	63.2	58.9	53.8	51.0	48.5	46.6	45.8
85°	26.4	29.6	32.8	33.7	32.8	30.9	28.2	28.2	26.8	26.4	26.4
87.5°	10.0	12.0	12.7	14.4	14.5	15.6	16.8	17.6	18.3	17.8	17.4
90°	4.3	7.3	10.4	13.5	17.8	23.5	29.2	34.8	40.5	39.9	39.4
92.5°	22.8	25.1	27.4	29.6	31.4	32.7	34.1	35.4	36.7	36.8	37.0
95°	62.7	65.3	67.9	70.4	72.0	72.5	72.9	73.5	74.0	74.0	74.0
97.5°	112.1	114.4	116.6	118.9	120.5	121.5	122.4	123.4	124.4	124.4	124.4
100°	148.9	151.0	153.0	155.1	156.5	157.2	158.0	158.8	159.5	159.5	159.5
102.5°	187.3	189.0	190.6	192.3	193.6	194.6	195.6	196.5	197.5	197.7	197.9
105°	249.3	250.1	250.9	251.6	252.4	252.8	253.3	253.9	254.4	254.9	255.4
107.5°	313.1	314.2	315.3	316.5	317.0	317.0	317.0	317.0	317.0	317.3	317.4
110°	354.2	355.7	357.3	358.8	359.6	359.6	359.6	359.6	359.6	359.6	359.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	398.6	400.1	401.7	403.2	403.9	403.7	403.5	403.2	403.1	402.4	401.8
115°	464.0	465.6	467.1	468.7	469.1	468.7	468.1	467.6	467.1	466.9	466.6
117.5°	529.8	531.8	533.9	535.9	536.3	534.8	533.3	531.9	530.5	529.9	529.2
120°	573.2	575.3	577.4	579.4	579.4	577.4	575.3	573.2	571.1	571.1	571.1
122.5°	613.4	615.9	618.3	620.8	621.3	619.9	618.5	617.0	615.5	614.9	614.4
125°	675.2	677.5	679.8	682.2	683.0	682.2	681.4	680.6	679.8	679.1	678.3
127.5°	736.2	739.1	742.1	745.0	746.0	745.1	744.1	743.2	742.3	741.4	740.5
130°	774.5	777.9	781.2	784.5	786.0	785.5	785.0	784.4	783.9	783.4	782.9
132.5°	816.5	819.2	821.9	824.7	826.1	826.2	826.3	826.3	826.4	825.4	824.2
135°	873.4	876.3	879.1	882.0	883.6	884.1	884.7	885.2	885.6	885.4	885.2
137.5°	932.8	935.1	937.5	939.8	941.3	941.9	942.6	943.3	944.0	943.8	943.5
140°	968.9	971.3	973.6	975.9	977.7	978.9	980.3	981.5	982.8	982.8	982.8
142.5°	1005.9	1008.3	1010.6	1012.9	1014.4	1015.3	1016.2	1017.1	1018.0	1018.2	1018.3
145°	1058.6	1060.4	1062.2	1064.0	1065.7	1067.2	1068.7	1070.3	1071.8	1072.1	1072.4
147.5°	1106.3	1108.5	1110.7	1112.9	1114.5	1115.4	1116.5	1117.5	1118.6	1119.1	1119.6
150°	1138.1	1139.7	1141.2	1142.7	1144.1	1145.0	1146.1	1147.1	1148.2	1148.9	1149.7
152.5°	1166.8	1168.3	1169.8	1171.4	1172.8	1174.0	1175.3	1176.5	1177.8	1178.8	1179.7
155°	1209.1	1209.8	1210.6	1211.4	1212.1	1212.9	1213.6	1214.4	1215.2	1216.5	1217.8
157.5°	1245.5	1246.1	1246.6	1247.1	1247.6	1248.0	1248.5	1248.9	1249.5	1251.2	1252.9
160°	1267.7	1268.3	1268.8	1269.3	1269.7	1269.9	1270.2	1270.4	1270.7	1272.2	1273.8
162.5°	1287.7	1287.8	1287.9	1288.0	1288.2	1288.4	1288.7	1289.0	1289.2	1290.9	1292.7
165°	1314.4	1314.1	1313.8	1313.6	1313.5	1313.5	1313.5	1313.5	1313.5	1315.3	1317.1
167.5°	1336.5	1335.8	1335.0	1334.2	1333.8	1333.7	1333.7	1333.6	1333.6	1335.4	1337.2
170°	1348.5	1347.8	1347.0	1346.2	1345.8	1345.5	1345.2	1345.0	1344.7	1346.5	1348.3
172.5°	1356.9	1356.1	1355.3	1354.6	1354.1	1353.8	1353.5	1353.3	1353.0	1354.9	1356.6
175°	1367.1	1366.3	1365.5	1364.8	1364.1	1363.6	1363.1	1362.5	1362.0	1363.9	1365.7
177.5°	1371.4	1370.7	1370.1	1369.5	1369.0	1368.6	1368.2	1367.8	1367.3	1368.6	1369.8
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1228.5	1233.6	1233.6	1234.3	1240.2	1239.4	1239.0
5°	1307.3	1315.1	1316.0	1324.2	1329.6	1327.8	1322.9
7.5°	1381.7	1396.2	1407.0	1413.1	1420.3	1424.8	1422.8
10°	1440.7	1461.7	1474.4	1483.1	1493.5	1501.3	1498.5
12.5°	1494.2	1519.2	1536.7	1551.5	1552.9	1562.8	1556.0
15°	1577.7	1604.1	1606.9	1617.8	1626.5	1625.5	1625.9
17.5°	1605.3	1613.8	1615.5	1615.8	1615.9	1612.7	1605.8
20°	1595.4	1592.3	1584.6	1578.7	1568.2	1566.8	1557.7
22.5°	1548.9	1538.7	1519.4	1506.5	1490.2	1485.9	1483.5
25°	1457.1	1434.8	1403.8	1374.2	1366.1	1350.1	1354.7
27.5°	1331.2	1296.5	1262.9	1238.9	1217.1	1193.3	1200.1
30°	1242.7	1203.5	1156.2	1119.8	1096.6	1073.8	1069.7
32.5°	1137.1	1079.8	1026.9	994.9	959.3	944.9	929.2
35°	955.0	899.0	846.7	801.6	775.7	755.6	737.4
37.5°	791.2	726.7	684.6	648.0	629.3	617.8	620.7
40°	689.6	633.2	602.3	574.4	557.1	548.9	550.8
42.5°	607.3	565.1	539.6	520.6	508.4	503.8	502.7
45°	513.9	490.3	469.3	458.4	452.5	447.5	444.3
47.5°	450.2	430.9	419.1	412.6	407.4	402.3	402.3
50°	412.0	399.2	391.0	384.1	380.1	376.5	379.6
52.5°	382.8	371.1	363.0	356.9	355.3	352.0	352.0
55°	339.6	330.5	324.6	319.1	316.4	314.5	312.3
57.5°	300.2	291.6	286.1	282.7	277.5	275.6	274.9
60°	272.2	265.4	259.9	255.4	253.1	249.4	249.4
62.5°	246.4	239.5	234.4	231.0	227.2	225.8	226.1
65°	208.9	203.5	198.5	194.8	193.9	191.2	192.1
67.5°	174.5	170.9	165.6	163.6	161.8	160.4	159.3
70°	151.6	147.9	145.2	142.5	141.1	141.1	141.1
72.5°	132.2	127.9	126.3	122.8	123.6	122.2	120.7
75°	102.5	99.7	98.4	96.9	94.7	94.7	94.7
77.5°	75.3	74.5	72.9	71.4	70.9	70.4	70.6
80°	58.2	57.8	56.9	56.9	56.0	55.6	54.7
82.5°	44.8	43.6	43.1	42.7	42.5	42.4	42.3
85°	25.5	24.6	24.6	25.1	24.2	24.2	24.6
87.5°	17.7	17.5	17.1	17.2	17.6	17.3	17.3
90°	39.0	38.4	38.3	38.5	38.8	39.1	39.3
92.5°	37.1	37.2	37.3	37.3	37.4	37.5	37.5
95°	74.0	74.0	73.7	73.2	72.7	72.2	71.7
97.5°	124.4	124.4	124.4	124.3	124.3	124.2	124.2
100°	159.5	159.5	159.4	159.2	158.9	158.6	158.4
102.5°	198.1	198.3	198.3	198.0	197.8	197.5	197.2
105°	255.9	256.5	256.7	256.7	256.7	256.7	256.7
107.5°	317.6	317.9	317.4	316.2	315.0	313.8	312.6
110°	359.6	359.6	359.2	358.5	357.7	356.9	356.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	401.2	400.6	400.0	399.4	398.9	398.3	397.7
115°	466.4	466.1	465.6	464.8	464.0	463.2	462.5
117.5°	528.6	528.0	527.4	526.6	525.8	525.0	524.2
120°	571.1	571.1	570.8	570.0	569.3	568.5	567.8
122.5°	613.8	613.1	612.5	612.0	611.4	610.8	610.3
125°	677.5	676.8	676.3	676.0	675.7	675.5	675.2
127.5°	739.5	738.6	737.7	736.9	736.1	735.3	734.4
130°	782.4	781.9	781.1	780.1	779.1	778.0	776.9
132.5°	823.0	822.0	821.0	820.2	819.3	818.5	817.7
135°	884.9	884.7	884.1	883.3	882.6	881.8	881.0
137.5°	943.3	943.2	942.5	941.5	940.5	939.4	938.4
140°	982.8	982.8	982.3	981.2	980.3	979.2	978.2
142.5°	1018.6	1018.8	1018.3	1017.4	1016.3	1015.3	1014.2
145°	1072.6	1072.8	1072.5	1071.5	1070.4	1069.4	1068.4
147.5°	1120.3	1120.8	1120.6	1119.6	1118.7	1117.7	1116.7
150°	1150.5	1151.2	1151.2	1150.5	1149.7	1148.9	1148.2
152.5°	1180.6	1181.6	1181.6	1180.6	1179.7	1178.8	1177.8
155°	1219.1	1220.3	1220.6	1219.9	1219.1	1218.3	1217.5
157.5°	1254.6	1256.4	1256.7	1255.4	1254.2	1252.9	1251.7
160°	1275.3	1276.8	1277.1	1276.1	1275.1	1274.1	1273.0
162.5°	1294.4	1296.2	1296.5	1295.2	1294.0	1292.7	1291.6
165°	1318.8	1320.7	1320.9	1319.6	1318.4	1317.1	1315.8
167.5°	1339.0	1340.8	1341.0	1339.7	1338.4	1337.0	1335.7
170°	1350.1	1351.9	1352.0	1350.5	1349.0	1347.4	1345.9
172.5°	1358.4	1360.2	1360.3	1358.8	1357.3	1355.8	1354.2
175°	1367.4	1369.2	1369.4	1367.8	1366.3	1364.8	1363.2
177.5°	1371.1	1372.3	1372.3	1371.1	1369.8	1368.6	1367.3
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1

(END OF REPORT)