

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: P331366-935

Luminaire Tested: **S122DIP-S675D1080U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331366-935
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-S675D1080U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 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: 6233.1 lumens
Efficiency: N/A
Efficacy: 109.5 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

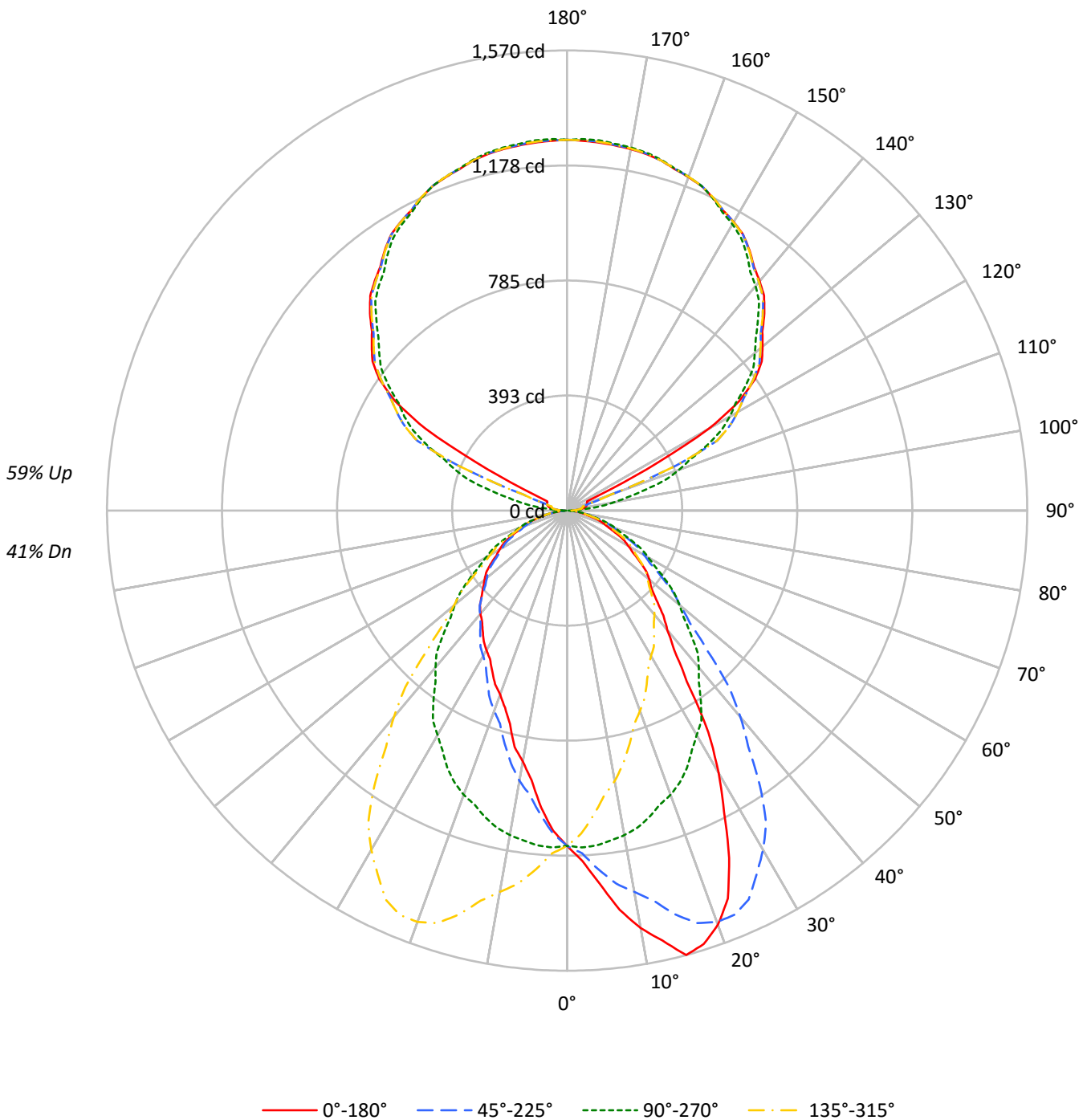
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18466	18466	18466	18466
5°	20702	18585	16470	18585
10°	23722	18433	14254	18433
15°	26242	18094	12593	18094
20°	25844	17732	11478	17732
25°	23302	17250	10774	17250
30°	19257	16479	10260	16479
35°	14034	15672	9895	15672
40°	11209	14720	9691	14720
45°	9796	13618	9412	13618
50°	9206	12552	9231	12552
55°	8487	11468	8982	11468
60°	7776	10317	8603	10317
65°	7087	9287	8225	9287
70°	6430	8280	7676	8280
75°	5702	7155	6800	7155
80°	4909	5923	5477	5923
85°	4409	4409	3260	4409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	1.7
10°-20°	316.6	5.1
20°-30°	459.5	7.4
30°-40°	484.9	7.8
40°-50°	429.4	6.9
50°-60°	342.6	5.5
60°-70°	232.9	3.7
70°-80°	119.4	1.9
80°-90°	31.9	0.5
90°-100°	42.2	0.7
100°-110°	154.7	2.5
110°-120°	413.6	6.6
120°-130°	682.8	11.0
130°-140°	726.1	11.6
140°-150°	674.9	10.8
150°-160°	542.6	8.7
160°-170°	349.7	5.6
170°-180°	120.4	1.9
0°-30°	885.1	14.2
0°-40°	1370.0	22.0
0°-60°	2142.0	34.4
0°-90°	2526.2	40.5
90°-120°	610.5	9.8
90°-150°	2694.3	43.2
90°-180°	3707.0	59.5
0°-180°	6233.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1144	1144	1144	1144	1144	
5°	1277	1147	1016	1147	1277	128
15°	1570	1082	753	1082	1570	433
25°	1308	968	605	968	1308	591
35°	712	795	502	795	712	463
45°	429	596	412	596	429	337
55°	302	407	319	407	302	270
65°	186	243	215	243	186	184
75°	91	115	109	115	91	98
85°	24	24	18	24	24	27
90°	25	1	25	1	25	12
95°	39	60	39	60	39	37
105°	70	278	70	278	70	72
115°	75	526	75	526	75	188
125°	783	744	783	744	783	677
135°	951	921	951	921	951	733
145°	1085	1068	1085	1068	1085	678
155°	1177	1176	1177	1176	1177	543
165°	1237	1239	1237	1239	1237	349
175°	1260	1268	1260	1268	1260	120
180°	1265	1265	1265	1265	1265	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1196.4	1196.7	1197.5	1191.8	1191.1	1191.1	1186.2	1182.0	1177.1	1170.4	1171.0
5°	1277.3	1282.1	1283.8	1278.6	1270.7	1269.8	1262.3	1250.0	1238.5	1229.3	1222.8
7.5°	1373.8	1375.7	1371.4	1364.4	1358.6	1348.1	1334.1	1320.5	1301.4	1283.9	1270.9
10°	1446.9	1449.6	1442.1	1432.0	1423.7	1411.4	1391.1	1370.5	1345.4	1321.2	1301.8
12.5°	1502.4	1509.0	1499.4	1498.1	1483.8	1466.9	1442.8	1432.4	1397.1	1363.4	1342.6
15°	1569.9	1569.5	1570.5	1562.1	1551.5	1548.9	1523.4	1495.7	1446.0	1426.2	1392.0
17.5°	1550.5	1557.1	1560.2	1560.1	1559.9	1558.2	1550.1	1532.6	1507.7	1475.6	1436.0
20°	1504.1	1512.9	1514.2	1524.3	1530.0	1537.5	1540.5	1535.7	1520.4	1493.5	1459.2
22.5°	1432.4	1434.8	1438.9	1454.7	1467.1	1485.7	1495.6	1511.8	1505.9	1492.8	1464.1
25°	1308.0	1303.6	1319.1	1326.9	1355.5	1385.3	1407.0	1430.6	1451.7	1464.5	1456.1
27.5°	1158.7	1152.2	1175.2	1196.2	1219.4	1251.8	1285.4	1325.0	1358.0	1399.2	1413.3
30°	1032.9	1036.8	1058.9	1081.2	1116.4	1162.1	1199.9	1243.5	1290.5	1336.6	1368.6
32.5°	897.2	912.4	926.3	960.6	991.5	1042.6	1097.9	1152.4	1211.0	1263.4	1313.1
35°	712.0	729.6	749.0	774.0	817.5	868.1	922.1	995.5	1075.6	1147.2	1206.1
37.5°	599.3	596.5	607.6	625.7	661.0	701.7	764.0	836.5	930.7	1014.9	1097.9
40°	531.8	530.0	538.0	554.7	581.5	611.4	665.9	729.6	817.1	919.9	1018.8
42.5°	485.4	486.5	490.9	502.7	521.0	545.6	586.4	640.7	720.7	817.6	923.9
45°	429.0	432.0	436.9	442.6	453.1	473.4	496.2	534.9	598.2	679.1	783.7
47.5°	388.4	388.5	393.4	398.4	404.7	416.0	434.7	458.9	503.6	569.5	659.4
50°	366.5	363.5	367.0	370.9	377.5	385.5	397.8	420.6	450.5	503.7	578.9
52.5°	339.8	339.9	343.1	344.6	350.5	358.3	369.6	385.5	412.5	454.1	515.9
55°	301.5	303.7	305.5	308.1	313.4	319.1	327.9	338.5	359.6	390.7	436.4
57.5°	265.4	266.1	267.9	272.9	276.3	281.5	289.9	299.5	313.2	336.3	370.7
60°	240.8	240.8	244.4	246.6	251.0	256.2	262.9	272.1	284.4	303.2	331.0
62.5°	218.3	218.0	219.4	223.0	226.4	231.3	237.9	245.7	257.3	274.1	296.9
65°	185.5	184.6	187.3	188.1	191.7	196.5	201.7	210.1	219.3	231.6	251.8
67.5°	153.9	154.9	156.3	158.0	159.9	165.0	168.5	174.4	182.2	192.4	206.1
70°	136.2	136.2	136.2	137.6	140.2	142.8	146.4	151.2	158.7	167.5	179.8
72.5°	116.6	118.0	119.3	118.6	121.9	123.5	127.7	130.4	137.6	143.2	154.1
75°	91.4	91.4	91.4	93.6	95.0	96.3	98.9	101.5	105.0	112.1	117.8
77.5°	68.2	68.0	68.4	69.0	70.4	72.0	72.8	75.2	78.4	81.6	86.5
80°	52.8	53.6	54.1	54.9	54.9	55.8	56.2	59.3	61.6	63.7	66.8
82.5°	40.8	41.0	41.1	41.2	41.6	42.1	43.2	44.3	45.0	46.8	49.2
85°	23.8	23.3	23.3	24.2	23.8	23.8	24.6	25.5	25.5	25.9	27.2
87.5°	14.1	14.0	14.3	13.9	13.8	13.9	13.8	13.2	13.3	13.5	13.5
90°	24.7	24.3	23.9	23.5	23.1	22.4	21.4	20.3	19.3	18.3	16.7
92.5°	24.7	24.5	24.2	24.0	23.8	23.3	22.8	22.3	21.8	21.3	20.4
95°	39.3	39.5	39.8	40.0	40.2	39.8	38.7	37.7	36.7	35.7	34.3
97.5°	52.5	52.3	52.1	51.8	51.6	51.1	50.2	49.4	48.6	47.8	44.5
100°	61.3	61.0	60.5	60.1	59.7	58.7	57.1	55.4	53.8	52.2	48.7
102.5°	65.7	65.2	64.6	64.0	63.5	62.1	60.0	57.9	55.8	53.6	48.6
105°	69.6	68.7	67.9	67.2	66.3	64.7	62.5	60.3	58.0	55.8	48.7
107.5°	71.5	70.8	69.9	69.1	68.4	69.1	71.3	73.6	75.9	78.2	144.7
110°	72.3	71.5	70.7	69.8	69.1	78.8	99.2	119.5	139.8	160.1	219.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	73.0	72.4	71.7	71.1	70.4	107.2	181.4	255.6	329.8	404.0	418.5
115°	75.1	89.7	104.4	119.0	133.6	188.0	282.2	376.3	470.5	564.7	559.6
117.5°	306.4	354.6	402.7	450.8	498.9	534.4	557.2	580.0	602.7	625.5	622.0
120°	558.4	585.7	613.2	640.7	668.1	680.7	678.2	675.8	673.3	670.9	667.3
122.5°	696.7	702.1	707.4	712.7	718.0	720.0	718.5	717.0	715.6	714.1	710.2
125°	782.6	782.0	781.4	780.8	780.2	779.1	777.7	776.3	774.8	773.4	769.6
127.5°	836.7	836.6	836.5	836.4	836.3	835.2	833.1	831.0	829.0	826.9	824.0
130°	870.5	870.6	870.8	871.1	871.2	870.2	868.0	865.7	863.5	861.3	859.0
132.5°	903.4	903.6	903.8	904.0	904.2	903.4	901.5	899.5	897.6	895.7	893.5
135°	951.0	951.4	951.7	952.2	952.6	951.7	949.8	947.7	945.7	943.7	941.8
137.5°	994.4	995.1	995.7	996.4	997.1	996.4	994.5	992.5	990.5	988.5	986.4
140°	1021.5	1022.4	1023.5	1024.5	1025.5	1025.1	1023.3	1021.5	1019.6	1017.8	1015.5
142.5°	1047.8	1048.9	1049.8	1050.9	1051.9	1051.5	1049.9	1048.2	1046.5	1044.9	1042.3
145°	1084.6	1085.6	1086.7	1087.7	1088.6	1088.5	1087.0	1085.6	1084.2	1082.8	1079.3
147.5°	1117.0	1117.8	1118.7	1119.6	1120.4	1120.3	1119.3	1118.2	1117.1	1116.1	1112.7
150°	1136.8	1137.8	1138.8	1139.8	1140.8	1140.7	1139.5	1138.3	1137.1	1135.8	1132.6
152.5°	1153.7	1154.9	1156.3	1157.6	1159.0	1159.1	1157.9	1156.6	1155.4	1154.2	1151.1
155°	1177.1	1178.7	1180.3	1181.9	1183.5	1183.8	1182.6	1181.3	1180.1	1178.9	1176.5
157.5°	1198.4	1200.1	1201.6	1203.2	1204.8	1204.9	1203.5	1202.1	1200.8	1199.4	1197.7
160°	1210.9	1212.4	1213.8	1215.2	1216.6	1216.7	1215.5	1214.3	1213.1	1211.9	1210.7
162.5°	1221.2	1222.9	1224.7	1226.4	1228.1	1228.4	1226.9	1225.5	1224.2	1222.8	1221.8
165°	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3	1240.8	1239.4	1237.9	1236.6	1236.0
167.5°	1246.2	1248.1	1249.9	1251.7	1253.5	1253.8	1252.3	1250.9	1249.5	1248.1	1247.5
170°	1252.1	1254.0	1255.8	1257.6	1259.4	1259.6	1258.2	1256.8	1255.3	1254.0	1253.5
172.5°	1256.5	1258.4	1260.2	1262.0	1263.9	1264.0	1262.6	1261.2	1259.7	1258.4	1257.9
175°	1260.3	1262.4	1264.4	1266.4	1268.5	1268.8	1267.4	1265.9	1264.6	1263.1	1262.7
177.5°	1262.7	1264.2	1265.7	1267.1	1268.6	1268.8	1267.6	1266.4	1265.3	1264.2	1264.0
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1173.5	1170.7	1169.0	1162.6	1157.0	1151.4	1149.6	1150.3	1142.6	1135.2	1132.0
5°	1219.3	1210.5	1202.1	1190.2	1176.2	1160.8	1152.9	1146.7	1131.4	1114.7	1105.0
7.5°	1260.2	1247.7	1231.6	1209.2	1188.8	1164.6	1149.2	1135.6	1113.0	1089.5	1075.0
10°	1285.2	1268.0	1247.3	1220.1	1195.1	1165.6	1145.0	1124.3	1097.9	1069.8	1052.2
12.5°	1306.7	1283.5	1263.2	1228.2	1198.6	1161.7	1137.2	1108.1	1080.4	1047.0	1029.8
15°	1357.7	1315.1	1276.3	1236.8	1200.3	1148.9	1121.7	1082.5	1046.0	1004.8	985.0
17.5°	1397.1	1349.3	1288.3	1238.0	1195.5	1138.6	1098.5	1051.7	1008.6	961.3	934.4
20°	1419.7	1364.7	1299.2	1239.5	1188.4	1123.4	1080.0	1032.0	981.5	928.2	899.2
22.5°	1433.0	1375.3	1310.5	1234.2	1174.4	1111.1	1056.4	1003.8	952.6	895.3	864.8
25°	1437.3	1384.5	1316.0	1229.8	1156.8	1085.2	1019.3	968.3	906.3	852.6	808.3
27.5°	1416.3	1378.5	1312.6	1221.5	1136.5	1052.7	979.3	921.5	856.1	797.9	753.3
30°	1390.7	1368.6	1304.5	1213.1	1120.3	1030.3	949.3	883.9	818.8	759.9	714.2
32.5°	1350.9	1346.2	1289.8	1201.1	1103.1	1001.8	918.1	851.9	779.8	721.9	678.4
35°	1272.9	1294.0	1258.4	1174.4	1070.7	961.2	870.7	795.1	720.4	665.0	624.1
37.5°	1168.3	1220.6	1211.3	1135.3	1026.9	917.1	817.2	738.1	666.9	611.1	570.9
40°	1096.1	1163.0	1172.7	1105.4	996.0	883.0	777.1	698.4	629.0	578.0	537.5
42.5°	1018.8	1096.9	1123.4	1069.5	962.2	847.1	741.2	659.7	591.0	541.4	505.6
45°	889.2	992.5	1040.3	1009.6	905.9	788.1	679.1	596.4	534.0	487.4	459.8
47.5°	767.9	880.8	945.2	934.4	843.2	726.5	618.8	539.5	478.7	441.5	416.7
50°	682.2	798.1	876.0	879.5	798.1	682.6	574.5	499.7	443.9	409.2	389.0
52.5°	607.6	718.3	803.2	821.8	747.9	636.9	534.8	460.4	411.2	379.3	361.2
55°	510.3	603.9	697.9	732.3	672.9	567.4	472.9	407.4	361.3	339.3	323.5
57.5°	424.2	502.3	589.2	627.1	590.5	500.2	411.6	354.7	317.3	298.0	285.9
60°	378.8	440.4	517.7	563.0	531.4	451.0	373.6	319.5	288.8	271.6	260.2
62.5°	336.7	391.2	456.6	498.0	480.8	404.9	335.6	287.9	261.3	245.2	237.0
65°	277.8	320.9	371.4	409.7	398.2	340.6	284.0	243.1	222.0	209.2	202.6
67.5°	228.8	259.8	294.9	328.4	319.2	278.4	232.9	201.0	185.3	174.4	170.4
70°	197.8	221.5	252.7	279.6	272.1	238.7	202.6	175.4	161.8	152.5	148.5
72.5°	168.2	187.8	211.5	233.5	228.4	200.7	170.7	150.1	139.6	131.0	127.8
75°	127.0	142.0	156.4	171.0	169.6	148.1	130.5	114.7	106.3	99.8	98.4
77.5°	93.8	102.1	112.0	120.6	118.2	105.9	92.1	83.1	76.9	72.5	71.8
80°	71.6	76.5	83.5	89.6	86.6	81.3	70.3	63.7	59.3	54.9	53.2
82.5°	51.9	56.8	61.0	64.3	62.0	57.1	50.3	45.8	43.1	40.2	39.4
85°	27.2	29.9	31.7	32.5	31.7	28.6	25.5	23.8	21.5	20.2	19.8
87.5°	13.5	13.3	12.9	13.3	11.7	11.3	9.4	7.9	8.0	8.1	7.8
90°	15.1	13.4	11.8	9.9	7.7	5.4	3.2	0.9	3.2	5.4	7.7
92.5°	19.6	18.8	18.0	17.7	17.9	18.1	18.3	18.5	18.3	18.1	17.9
95°	32.9	31.4	30.0	32.6	39.3	46.1	52.8	59.5	52.8	46.1	39.3
97.5°	41.2	37.9	34.6	42.4	61.3	80.2	99.2	118.0	99.2	80.2	61.3
100°	45.3	41.8	38.3	50.5	78.4	106.2	134.1	162.0	134.1	106.2	78.4
102.5°	111.5	140.4	169.4	186.8	192.6	198.5	204.4	210.3	204.4	198.5	192.6
105°	166.9	222.4	277.9	302.6	296.5	290.4	284.4	278.3	284.4	290.4	296.5
107.5°	211.4	277.9	344.6	375.4	370.4	365.5	360.6	355.7	360.6	365.5	370.4
110°	277.8	336.5	395.3	422.6	418.3	414.1	409.7	405.4	409.7	414.1	418.3



TEST NUMBER: P331366-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	433.1	447.5	462.1	467.4	463.6	459.9	456.2	452.4	456.2	459.9	463.6
115°	554.6	549.5	544.4	540.1	536.7	533.2	529.8	526.3	529.8	533.2	536.7
117.5°	618.5	615.0	611.5	607.9	604.0	600.1	596.2	592.4	596.2	600.1	604.0
120°	663.6	660.0	656.3	652.9	649.9	646.8	643.8	640.7	643.8	646.8	649.9
122.5°	706.1	702.1	698.2	694.6	691.4	688.1	684.9	681.7	684.9	688.1	691.4
125°	765.7	761.8	757.9	754.7	752.1	749.4	746.7	744.2	746.7	749.4	752.1
127.5°	821.0	818.2	815.3	812.4	809.5	806.6	803.7	800.7	803.7	806.6	809.5
130°	856.8	854.5	852.3	849.5	846.4	843.1	839.8	836.5	839.8	843.1	846.4
132.5°	891.2	889.0	886.7	884.2	881.5	878.7	876.0	873.1	876.0	878.7	881.5
135°	940.0	938.1	936.3	933.8	930.6	927.3	924.0	920.8	924.0	927.3	930.6
137.5°	984.4	982.3	980.2	978.0	975.8	973.4	971.2	968.9	971.2	973.4	975.8
140°	1013.3	1011.1	1008.8	1006.9	1005.3	1003.7	1002.0	1000.4	1002.0	1003.7	1005.3
142.5°	1039.7	1037.2	1034.7	1032.6	1031.1	1029.7	1028.2	1026.7	1028.2	1029.7	1031.1
145°	1075.8	1072.4	1068.9	1067.3	1067.6	1067.7	1067.9	1068.2	1067.9	1067.7	1067.6
147.5°	1109.2	1105.9	1102.4	1101.1	1101.9	1102.7	1103.5	1104.2	1103.5	1102.7	1101.9
150°	1129.4	1126.1	1122.8	1122.0	1123.3	1124.8	1126.2	1127.7	1126.2	1124.8	1123.3
152.5°	1148.0	1144.9	1141.8	1141.1	1142.6	1144.2	1145.8	1147.4	1145.8	1144.2	1142.6
155°	1174.0	1171.6	1169.2	1168.8	1170.6	1172.5	1174.3	1176.1	1174.3	1172.5	1170.6
157.5°	1195.9	1194.3	1192.6	1192.5	1194.0	1195.6	1197.1	1198.7	1197.1	1195.6	1194.0
160°	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1210.7	1209.4	1208.2
162.5°	1220.7	1219.6	1218.6	1218.7	1219.9	1221.1	1222.4	1223.6	1222.4	1221.1	1219.9
165°	1235.4	1234.7	1234.1	1234.4	1235.6	1236.8	1238.0	1239.3	1238.0	1236.8	1235.6
167.5°	1246.9	1246.4	1245.8	1246.1	1247.3	1248.5	1249.8	1251.0	1249.8	1248.5	1247.3
170°	1253.1	1252.8	1252.3	1252.8	1254.0	1255.2	1256.4	1257.6	1256.4	1255.2	1254.0
172.5°	1257.5	1257.1	1256.7	1257.1	1258.4	1259.6	1260.8	1262.0	1260.8	1259.6	1258.4
175°	1262.3	1261.9	1261.5	1262.0	1263.4	1264.8	1266.3	1267.7	1266.3	1264.8	1263.4
177.5°	1263.9	1263.7	1263.5	1264.0	1265.2	1266.3	1267.5	1268.6	1267.5	1266.3	1265.2
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1128.5	1126.4	1119.0	1115.2	1108.8	1102.9	1099.0	1100.8	1102.2	1101.5	1100.4
5°	1096.1	1087.8	1075.0	1064.1	1056.2	1041.6	1035.5	1032.4	1029.8	1026.7	1023.6
7.5°	1057.7	1044.5	1026.2	1010.6	995.7	977.8	967.5	961.3	955.0	948.0	941.9
10°	1030.3	1011.8	992.5	970.4	952.9	936.6	922.1	912.5	903.7	895.4	889.2
12.5°	1001.4	980.2	956.2	926.2	906.8	883.6	881.3	864.3	850.6	845.4	838.2
15°	955.5	925.7	895.4	859.7	844.3	823.2	810.0	796.9	785.0	776.6	774.5
17.5°	903.4	864.7	834.6	809.0	783.8	762.2	750.0	739.4	729.7	718.5	717.0
20°	863.7	830.3	797.3	774.9	749.0	726.9	712.0	701.5	693.1	686.6	680.8
22.5°	826.0	789.5	759.3	734.8	709.2	691.5	679.7	669.5	662.5	655.2	649.9
25°	765.7	737.1	704.1	676.4	655.3	643.9	634.2	625.4	621.0	616.2	610.1
27.5°	712.8	681.1	650.2	628.8	610.3	600.1	593.2	587.3	583.2	580.3	576.9
30°	675.5	643.4	619.3	598.2	582.8	572.7	568.3	564.8	560.0	558.2	556.5
32.5°	639.7	610.8	590.1	571.8	557.2	550.5	546.5	543.4	539.6	537.8	534.3
35°	588.9	564.8	544.6	534.4	522.6	516.9	513.8	509.4	505.9	504.1	503.7
37.5°	541.2	520.2	507.0	494.0	489.0	485.4	481.2	478.2	477.2	476.9	476.5
40°	510.3	493.2	481.3	470.7	468.6	463.2	459.8	457.1	457.1	457.5	457.1
42.5°	482.2	466.7	456.3	447.2	444.6	441.4	437.9	437.7	438.5	440.0	438.5
45°	439.5	428.5	421.0	416.6	411.8	408.7	408.3	409.7	410.1	410.5	411.8
47.5°	400.3	393.0	386.2	381.4	379.3	378.8	378.2	380.6	382.6	383.4	385.5
50°	377.1	368.8	363.1	360.0	358.2	357.3	358.2	360.8	362.6	364.8	366.1
52.5°	351.1	345.2	341.2	338.9	338.2	338.7	338.9	341.9	344.7	345.4	346.1
55°	315.1	310.7	309.9	305.9	307.6	307.2	309.4	311.2	313.8	316.4	316.9
57.5°	279.3	275.8	273.4	273.7	274.2	276.2	278.0	281.1	284.0	286.7	287.0
60°	255.4	253.6	252.3	252.3	253.1	255.8	258.0	261.1	262.9	264.6	265.9
62.5°	233.6	231.8	230.5	231.2	233.5	235.1	237.6	239.3	241.0	242.8	243.4
65°	199.1	198.2	199.6	200.4	200.9	203.0	206.1	207.4	209.2	210.1	213.2
67.5°	167.4	167.6	167.4	168.6	171.2	171.7	174.6	177.6	178.0	179.7	181.7
70°	145.9	146.8	147.7	148.5	150.8	151.6	153.9	155.2	156.9	158.3	159.5
72.5°	126.2	126.4	127.3	127.1	129.0	130.9	132.8	134.1	135.8	137.5	138.8
75°	97.1	97.1	98.0	98.4	100.7	102.9	102.4	103.3	105.0	106.8	107.7
77.5°	70.9	70.0	70.9	71.4	72.1	74.0	74.3	75.5	77.5	76.9	77.9
80°	54.1	52.8	54.1	54.5	54.5	56.7	56.7	57.6	58.9	57.6	58.9
82.5°	38.6	38.0	38.9	39.0	39.7	39.8	40.6	40.7	42.0	41.4	42.0
85°	19.4	18.9	19.4	18.9	19.4	19.8	19.8	19.4	19.4	20.2	18.9
87.5°	7.9	8.0	7.9	8.3	8.3	8.3	8.1	8.3	8.5	8.0	8.1
90°	9.9	11.8	13.4	15.1	16.7	18.3	19.3	20.3	21.4	22.4	23.1
92.5°	17.7	18.0	18.8	19.6	20.4	21.3	21.8	22.3	22.8	23.3	23.8
95°	32.6	30.0	31.4	32.9	34.3	35.7	36.7	37.7	38.7	39.8	40.2
97.5°	42.4	34.6	37.9	41.2	44.5	47.8	48.6	49.4	50.2	51.1	51.6
100°	50.5	38.3	41.8	45.3	48.7	52.2	53.8	55.4	57.1	58.7	59.7
102.5°	186.8	169.4	140.4	111.5	82.6	53.6	55.8	57.9	60.0	62.1	63.5
105°	302.6	277.9	222.4	166.9	111.3	55.8	58.0	60.3	62.5	64.7	66.3
107.5°	375.4	344.6	277.9	211.4	144.7	78.2	75.9	73.6	71.3	69.1	68.4
110°	422.6	395.3	336.5	277.8	219.0	160.1	139.8	119.5	99.2	78.8	69.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	467.4	462.1	447.5	433.1	418.5	404.0	329.8	255.6	181.4	107.2	70.4
115°	540.1	544.4	549.5	554.6	559.6	564.7	470.5	376.3	282.2	188.0	133.6
117.5°	607.9	611.5	615.0	618.5	622.0	625.5	602.7	580.0	557.2	534.4	498.9
120°	652.9	656.3	660.0	663.6	667.3	670.9	673.3	675.8	678.2	680.7	668.1
122.5°	694.6	698.2	702.1	706.1	710.2	714.1	715.6	717.0	718.5	720.0	718.0
125°	754.7	757.9	761.8	765.7	769.6	773.4	774.8	776.3	777.7	779.1	780.2
127.5°	812.4	815.3	818.2	821.0	824.0	826.9	829.0	831.0	833.1	835.2	836.3
130°	849.5	852.3	854.5	856.8	859.0	861.3	863.5	865.7	868.0	870.2	871.2
132.5°	884.2	886.7	889.0	891.2	893.5	895.7	897.6	899.5	901.5	903.4	904.2
135°	933.8	936.3	938.1	940.0	941.8	943.7	945.7	947.7	949.8	951.7	952.6
137.5°	978.0	980.2	982.3	984.4	986.4	988.5	990.5	992.5	994.5	996.4	997.1
140°	1006.9	1008.8	1011.1	1013.3	1015.5	1017.8	1019.6	1021.5	1023.3	1025.1	1025.5
142.5°	1032.6	1034.7	1037.2	1039.7	1042.3	1044.9	1046.5	1048.2	1049.9	1051.5	1051.9
145°	1067.3	1068.9	1072.4	1075.8	1079.3	1082.8	1084.2	1085.6	1087.0	1088.5	1088.6
147.5°	1101.1	1102.4	1105.9	1109.2	1112.7	1116.1	1117.1	1118.2	1119.3	1120.3	1120.4
150°	1122.0	1122.8	1126.1	1129.4	1132.6	1135.8	1137.1	1138.3	1139.5	1140.7	1140.8
152.5°	1141.1	1141.8	1144.9	1148.0	1151.1	1154.2	1155.4	1156.6	1157.9	1159.1	1159.0
155°	1168.8	1169.2	1171.6	1174.0	1176.5	1178.9	1180.1	1181.3	1182.6	1183.8	1183.5
157.5°	1192.5	1192.6	1194.3	1195.9	1197.7	1199.4	1200.8	1202.1	1203.5	1204.9	1204.8
160°	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1213.1	1214.3	1215.5	1216.7	1216.6
162.5°	1218.7	1218.6	1219.6	1220.7	1221.8	1222.8	1224.2	1225.5	1226.9	1228.4	1228.1
165°	1234.4	1234.1	1234.7	1235.4	1236.0	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3
167.5°	1246.1	1245.8	1246.4	1246.9	1247.5	1248.1	1249.5	1250.9	1252.3	1253.8	1253.5
170°	1252.8	1252.3	1252.8	1253.1	1253.5	1254.0	1255.3	1256.8	1258.2	1259.6	1259.4
172.5°	1257.1	1256.7	1257.1	1257.5	1257.9	1258.4	1259.7	1261.2	1262.6	1264.0	1263.9
175°	1262.0	1261.5	1261.9	1262.3	1262.7	1263.1	1264.6	1265.9	1267.4	1268.8	1268.5
177.5°	1264.0	1263.5	1263.7	1263.9	1264.0	1264.2	1265.3	1266.4	1267.6	1268.8	1268.6
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1096.9	1096.1	1096.1	1093.0	1096.1	1096.1	1096.9	1100.4	1101.5	1102.2	1100.8
5°	1017.5	1016.2	1014.0	1016.2	1014.0	1016.2	1017.5	1023.6	1026.7	1029.8	1032.4
7.5°	939.0	933.8	933.0	927.7	933.0	933.8	939.0	941.9	948.0	955.0	961.3
10°	881.7	878.1	877.7	869.4	877.7	878.1	881.7	889.2	895.4	903.7	912.5
12.5°	838.1	829.7	831.3	826.5	831.3	829.7	838.1	838.2	845.4	850.6	864.3
15°	762.6	762.6	760.8	753.4	760.8	762.6	762.6	774.5	776.6	785.0	796.9
17.5°	708.3	707.5	703.3	705.3	703.3	707.5	708.3	717.0	718.5	729.7	739.4
20°	676.0	673.4	668.0	668.0	668.0	673.4	676.0	680.8	686.6	693.1	701.5
22.5°	645.4	645.2	639.6	641.4	639.6	645.2	645.4	649.9	655.2	662.5	669.5
25°	609.6	606.1	603.5	604.8	603.5	606.1	609.6	610.1	616.2	621.0	625.4
27.5°	575.7	573.8	573.6	570.0	573.6	573.8	575.7	576.9	580.3	583.2	587.3
30°	556.0	551.6	552.5	550.3	552.5	551.6	556.0	556.5	558.2	560.0	564.8
32.5°	533.5	531.9	531.1	529.2	531.1	531.9	533.5	534.3	537.8	539.6	543.4
35°	502.8	503.3	501.1	502.0	501.1	503.3	502.8	503.7	504.1	505.9	509.4
37.5°	476.0	477.4	476.4	476.6	476.4	477.4	476.0	476.5	476.9	477.2	478.2
40°	458.4	458.4	458.4	459.8	458.4	458.4	458.4	457.1	457.5	457.1	457.1
42.5°	441.5	440.8	440.1	440.1	440.1	440.8	441.5	438.5	440.0	438.5	437.7
45°	412.7	414.1	414.5	412.2	414.5	414.1	412.7	411.8	410.5	410.1	409.7
47.5°	386.6	386.8	386.6	388.6	386.6	386.8	386.6	385.5	383.4	382.6	380.6
50°	368.3	367.5	368.3	367.5	368.3	367.5	368.3	366.1	364.8	362.6	360.8
52.5°	349.0	349.1	348.6	348.4	348.6	349.1	349.0	346.1	345.4	344.7	341.9
55°	318.7	319.5	319.1	319.1	319.1	319.5	318.7	316.9	316.4	313.8	311.2
57.5°	287.3	288.1	288.7	286.7	288.7	288.1	287.3	287.0	286.7	284.0	281.1
60°	265.4	267.7	267.3	266.4	267.3	267.7	265.4	265.9	264.6	262.9	261.1
62.5°	245.5	246.2	246.2	246.0	246.2	246.2	245.5	243.4	242.8	241.0	239.3
65°	214.5	215.3	214.0	215.3	214.0	215.3	214.5	213.2	210.1	209.2	207.4
67.5°	181.2	181.4	182.4	183.0	182.4	181.4	181.2	181.7	179.7	178.0	177.6
70°	160.4	160.0	161.3	162.6	161.3	160.0	160.4	159.5	158.3	156.9	155.2
72.5°	138.6	139.6	139.1	140.1	139.1	139.6	138.6	138.8	137.5	135.8	134.1
75°	106.8	108.1	107.7	109.0	107.7	108.1	106.8	107.7	106.8	105.0	103.3
77.5°	77.1	77.3	77.1	77.9	77.1	77.3	77.1	77.9	76.9	77.5	75.5
80°	58.9	58.0	57.2	58.9	57.2	58.0	58.9	58.9	57.6	58.9	57.6
82.5°	41.0	41.5	40.6	40.6	40.6	41.5	41.0	42.0	41.4	42.0	40.7
85°	18.9	18.4	17.6	17.6	17.6	18.4	18.9	18.9	20.2	19.4	19.4
87.5°	8.2	7.9	8.0	7.7	8.0	7.9	8.2	8.1	8.0	8.5	8.3
90°	23.5	23.9	24.3	24.7	24.3	23.9	23.5	23.1	22.4	21.4	20.3
92.5°	24.0	24.2	24.5	24.7	24.5	24.2	24.0	23.8	23.3	22.8	22.3
95°	40.0	39.8	39.5	39.3	39.5	39.8	40.0	40.2	39.8	38.7	37.7
97.5°	51.8	52.1	52.3	52.5	52.3	52.1	51.8	51.6	51.1	50.2	49.4
100°	60.1	60.5	61.0	61.3	61.0	60.5	60.1	59.7	58.7	57.1	55.4
102.5°	64.0	64.6	65.2	65.7	65.2	64.6	64.0	63.5	62.1	60.0	57.9
105°	67.2	67.9	68.7	69.6	68.7	67.9	67.2	66.3	64.7	62.5	60.3
107.5°	69.1	69.9	70.8	71.5	70.8	69.9	69.1	68.4	69.1	71.3	73.6
110°	69.8	70.7	71.5	72.3	71.5	70.7	69.8	69.1	78.8	99.2	119.5



TEST NUMBER: P331366-935

CATALOG NUMBER: S122DIP-S675D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	71.1	71.7	72.4	73.0	72.4	71.7	71.1	70.4	107.2	181.4	255.6
115°	119.0	104.4	89.7	75.1	89.7	104.4	119.0	133.6	188.0	282.2	376.3
117.5°	450.8	402.7	354.6	306.4	354.6	402.7	450.8	498.9	534.4	557.2	580.0
120°	640.7	613.2	585.7	558.4	585.7	613.2	640.7	668.1	680.7	678.2	675.8
122.5°	712.7	707.4	702.1	696.7	702.1	707.4	712.7	718.0	720.0	718.5	717.0
125°	780.8	781.4	782.0	782.6	782.0	781.4	780.8	780.2	779.1	777.7	776.3
127.5°	836.4	836.5	836.6	836.7	836.6	836.5	836.4	836.3	835.2	833.1	831.0
130°	871.1	870.8	870.6	870.5	870.6	870.8	871.1	871.2	870.2	868.0	865.7
132.5°	904.0	903.8	903.6	903.4	903.6	903.8	904.0	904.2	903.4	901.5	899.5
135°	952.2	951.7	951.4	951.0	951.4	951.7	952.2	952.6	951.7	949.8	947.7
137.5°	996.4	995.7	995.1	994.4	995.1	995.7	996.4	997.1	996.4	994.5	992.5
140°	1024.5	1023.5	1022.4	1021.5	1022.4	1023.5	1024.5	1025.5	1025.1	1023.3	1021.5
142.5°	1050.9	1049.8	1048.9	1047.8	1048.9	1049.8	1050.9	1051.9	1051.5	1049.9	1048.2
145°	1087.7	1086.7	1085.6	1084.6	1085.6	1086.7	1087.7	1088.6	1088.5	1087.0	1085.6
147.5°	1119.6	1118.7	1117.8	1117.0	1117.8	1118.7	1119.6	1120.4	1120.3	1119.3	1118.2
150°	1139.8	1138.8	1137.8	1136.8	1137.8	1138.8	1139.8	1140.8	1140.7	1139.5	1138.3
152.5°	1157.6	1156.3	1154.9	1153.7	1154.9	1156.3	1157.6	1159.0	1159.1	1157.9	1156.6
155°	1181.9	1180.3	1178.7	1177.1	1178.7	1180.3	1181.9	1183.5	1183.8	1182.6	1181.3
157.5°	1203.2	1201.6	1200.1	1198.4	1200.1	1201.6	1203.2	1204.8	1204.9	1203.5	1202.1
160°	1215.2	1213.8	1212.4	1210.9	1212.4	1213.8	1215.2	1216.6	1216.7	1215.5	1214.3
162.5°	1226.4	1224.7	1222.9	1221.2	1222.9	1224.7	1226.4	1228.1	1228.4	1226.9	1225.5
165°	1240.8	1239.4	1237.9	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3	1240.8	1239.4
167.5°	1251.7	1249.9	1248.1	1246.2	1248.1	1249.9	1251.7	1253.5	1253.8	1252.3	1250.9
170°	1257.6	1255.8	1254.0	1252.1	1254.0	1255.8	1257.6	1259.4	1259.6	1258.2	1256.8
172.5°	1262.0	1260.2	1258.4	1256.5	1258.4	1260.2	1262.0	1263.9	1264.0	1262.6	1261.2
175°	1266.4	1264.4	1262.4	1260.3	1262.4	1264.4	1266.4	1268.5	1268.8	1267.4	1265.9
177.5°	1267.1	1265.7	1264.2	1262.7	1264.2	1265.7	1267.1	1268.6	1268.8	1267.6	1266.4
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



TEST NUMBER: P331366-935

CATALOG NUMBER: S122DIP-S675D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1099.0	1102.9	1108.8	1115.2	1119.0	1126.4	1128.5	1132.0	1135.2	1142.6	1150.3
5°	1035.5	1041.6	1056.2	1064.1	1075.0	1087.8	1096.1	1105.0	1114.7	1131.4	1146.7
7.5°	967.5	977.8	995.7	1010.6	1026.2	1044.5	1057.7	1075.0	1089.5	1113.0	1135.6
10°	922.1	936.6	952.9	970.4	992.5	1011.8	1030.3	1052.2	1069.8	1097.9	1124.3
12.5°	881.3	883.6	906.8	926.2	956.2	980.2	1001.4	1029.8	1047.0	1080.4	1108.1
15°	810.0	823.2	844.3	859.7	895.4	925.7	955.5	985.0	1004.8	1046.0	1082.5
17.5°	750.0	762.2	783.8	809.0	834.6	864.7	903.4	934.4	961.3	1008.6	1051.7
20°	712.0	726.9	749.0	774.9	797.3	830.3	863.7	899.2	928.2	981.5	1032.0
22.5°	679.7	691.5	709.2	734.8	759.3	789.5	826.0	864.8	895.3	952.6	1003.8
25°	634.2	643.9	655.3	676.4	704.1	737.1	765.7	808.3	852.6	906.3	968.3
27.5°	593.2	600.1	610.3	628.8	650.2	681.1	712.8	753.3	797.9	856.1	921.5
30°	568.3	572.7	582.8	598.2	619.3	643.4	675.5	714.2	759.9	818.8	883.9
32.5°	546.5	550.5	557.2	571.8	590.1	610.8	639.7	678.4	721.9	779.8	851.9
35°	513.8	516.9	522.6	534.4	544.6	564.8	588.9	624.1	665.0	720.4	795.1
37.5°	481.2	485.4	489.0	494.0	507.0	520.2	541.2	570.9	611.1	666.9	738.1
40°	459.8	463.2	468.6	470.7	481.3	493.2	510.3	537.5	578.0	629.0	698.4
42.5°	437.9	441.4	444.6	447.2	456.3	466.7	482.2	505.6	541.4	591.0	659.7
45°	408.3	408.7	411.8	416.6	421.0	428.5	439.5	459.8	487.4	534.0	596.4
47.5°	378.2	378.8	379.3	381.4	386.2	393.0	400.3	416.7	441.5	478.7	539.5
50°	358.2	357.3	358.2	360.0	363.1	368.8	377.1	389.0	409.2	443.9	499.7
52.5°	338.9	338.7	338.2	338.9	341.2	345.2	351.1	361.2	379.3	411.2	460.4
55°	309.4	307.2	307.6	305.9	309.9	310.7	315.1	323.5	339.3	361.3	407.4
57.5°	278.0	276.2	274.2	273.7	273.4	275.8	279.3	285.9	298.0	317.3	354.7
60°	258.0	255.8	253.1	252.3	252.3	253.6	255.4	260.2	271.6	288.8	319.5
62.5°	237.6	235.1	233.5	231.2	230.5	231.8	233.6	237.0	245.2	261.3	287.9
65°	206.1	203.0	200.9	200.4	199.6	198.2	199.1	202.6	209.2	222.0	243.1
67.5°	174.6	171.7	171.2	168.6	167.4	167.6	167.4	170.4	174.4	185.3	201.0
70°	153.9	151.6	150.8	148.5	147.7	146.8	145.9	148.5	152.5	161.8	175.4
72.5°	132.8	130.9	129.0	127.1	127.3	126.4	126.2	127.8	131.0	139.6	150.1
75°	102.4	102.9	100.7	98.4	98.0	97.1	97.1	98.4	99.8	106.3	114.7
77.5°	74.3	74.0	72.1	71.4	70.9	70.0	70.9	71.8	72.5	76.9	83.1
80°	56.7	56.7	54.5	54.5	54.1	52.8	54.1	53.2	54.9	59.3	63.7
82.5°	40.6	39.8	39.7	39.0	38.9	38.0	38.6	39.4	40.2	43.1	45.8
85°	19.8	19.8	19.4	18.9	19.4	18.9	19.4	19.8	20.2	21.5	23.8
87.5°	8.1	8.3	8.3	8.3	7.9	8.0	7.9	7.8	8.1	8.0	7.9
90°	19.3	18.3	16.7	15.1	13.4	11.8	9.9	7.7	5.4	3.2	0.9
92.5°	21.8	21.3	20.4	19.6	18.8	18.0	17.7	17.9	18.1	18.3	18.5
95°	36.7	35.7	34.3	32.9	31.4	30.0	32.6	39.3	46.1	52.8	59.5
97.5°	48.6	47.8	44.5	41.2	37.9	34.6	42.4	61.3	80.2	99.2	118.0
100°	53.8	52.2	48.7	45.3	41.8	38.3	50.5	78.4	106.2	134.1	162.0
102.5°	55.8	53.6	82.6	111.5	140.4	169.4	186.8	192.6	198.5	204.4	210.3
105°	58.0	55.8	111.3	166.9	222.4	277.9	302.6	296.5	290.4	284.4	278.3
107.5°	75.9	78.2	144.7	211.4	277.9	344.6	375.4	370.4	365.5	360.6	355.7
110°	139.8	160.1	219.0	277.8	336.5	395.3	422.6	418.3	414.1	409.7	405.4



TEST NUMBER: P331366-935

CATALOG NUMBER: S122DIP-S675D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.8	404.0	418.5	433.1	447.5	462.1	467.4	463.6	459.9	456.2	452.4
115°	470.5	564.7	559.6	554.6	549.5	544.4	540.1	536.7	533.2	529.8	526.3
117.5°	602.7	625.5	622.0	618.5	615.0	611.5	607.9	604.0	600.1	596.2	592.4
120°	673.3	670.9	667.3	663.6	660.0	656.3	652.9	649.9	646.8	643.8	640.7
122.5°	715.6	714.1	710.2	706.1	702.1	698.2	694.6	691.4	688.1	684.9	681.7
125°	774.8	773.4	769.6	765.7	761.8	757.9	754.7	752.1	749.4	746.7	744.2
127.5°	829.0	826.9	824.0	821.0	818.2	815.3	812.4	809.5	806.6	803.7	800.7
130°	863.5	861.3	859.0	856.8	854.5	852.3	849.5	846.4	843.1	839.8	836.5
132.5°	897.6	895.7	893.5	891.2	889.0	886.7	884.2	881.5	878.7	876.0	873.1
135°	945.7	943.7	941.8	940.0	938.1	936.3	933.8	930.6	927.3	924.0	920.8
137.5°	990.5	988.5	986.4	984.4	982.3	980.2	978.0	975.8	973.4	971.2	968.9
140°	1019.6	1017.8	1015.5	1013.3	1011.1	1008.8	1006.9	1005.3	1003.7	1002.0	1000.4
142.5°	1046.5	1044.9	1042.3	1039.7	1037.2	1034.7	1032.6	1031.1	1029.7	1028.2	1026.7
145°	1084.2	1082.8	1079.3	1075.8	1072.4	1068.9	1067.3	1067.6	1067.7	1067.9	1068.2
147.5°	1117.1	1116.1	1112.7	1109.2	1105.9	1102.4	1101.1	1101.9	1102.7	1103.5	1104.2
150°	1137.1	1135.8	1132.6	1129.4	1126.1	1122.8	1122.0	1123.3	1124.8	1126.2	1127.7
152.5°	1155.4	1154.2	1151.1	1148.0	1144.9	1141.8	1141.1	1142.6	1144.2	1145.8	1147.4
155°	1180.1	1178.9	1176.5	1174.0	1171.6	1169.2	1168.8	1170.6	1172.5	1174.3	1176.1
157.5°	1200.8	1199.4	1197.7	1195.9	1194.3	1192.6	1192.5	1194.0	1195.6	1197.1	1198.7
160°	1213.1	1211.9	1210.7	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9
162.5°	1224.2	1222.8	1221.8	1220.7	1219.6	1218.6	1218.7	1219.9	1221.1	1222.4	1223.6
165°	1237.9	1236.6	1236.0	1235.4	1234.7	1234.1	1234.4	1235.6	1236.8	1238.0	1239.3
167.5°	1249.5	1248.1	1247.5	1246.9	1246.4	1245.8	1246.1	1247.3	1248.5	1249.8	1251.0
170°	1255.3	1254.0	1253.5	1253.1	1252.8	1252.3	1252.8	1254.0	1255.2	1256.4	1257.6
172.5°	1259.7	1258.4	1257.9	1257.5	1257.1	1256.7	1257.1	1258.4	1259.6	1260.8	1262.0
175°	1264.6	1263.1	1262.7	1262.3	1261.9	1261.5	1262.0	1263.4	1264.8	1266.3	1267.7
177.5°	1265.3	1264.2	1264.0	1263.9	1263.7	1263.5	1264.0	1265.2	1266.3	1267.5	1268.6
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



TEST NUMBER: P331366-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1149.6	1151.4	1157.0	1162.6	1169.0	1170.7	1173.5	1171.0	1170.4	1177.1	1182.0
5°	1152.9	1160.8	1176.2	1190.2	1202.1	1210.5	1219.3	1222.8	1229.3	1238.5	1250.0
7.5°	1149.2	1164.6	1188.8	1209.2	1231.6	1247.7	1260.2	1270.9	1283.9	1301.4	1320.5
10°	1145.0	1165.6	1195.1	1220.1	1247.3	1268.0	1285.2	1301.8	1321.2	1345.4	1370.5
12.5°	1137.2	1161.7	1198.6	1228.2	1263.2	1283.5	1306.7	1342.6	1363.4	1397.1	1432.4
15°	1121.7	1148.9	1200.3	1236.8	1276.3	1315.1	1357.7	1392.0	1426.2	1446.0	1495.7
17.5°	1098.5	1138.6	1195.5	1238.0	1288.3	1349.3	1397.1	1436.0	1475.6	1507.7	1532.6
20°	1080.0	1123.4	1188.4	1239.5	1299.2	1364.7	1419.7	1459.2	1493.5	1520.4	1535.7
22.5°	1056.4	1111.1	1174.4	1234.2	1310.5	1375.3	1433.0	1464.1	1492.8	1505.9	1511.8
25°	1019.3	1085.2	1156.8	1229.8	1316.0	1384.5	1437.3	1456.1	1464.5	1451.7	1430.6
27.5°	979.3	1052.7	1136.5	1221.5	1312.6	1378.5	1416.3	1413.3	1399.2	1358.0	1325.0
30°	949.3	1030.3	1120.3	1213.1	1304.5	1368.6	1390.7	1368.6	1336.6	1290.5	1243.5
32.5°	918.1	1001.8	1103.1	1201.1	1289.8	1346.2	1350.9	1313.1	1263.4	1211.0	1152.4
35°	870.7	961.2	1070.7	1174.4	1258.4	1294.0	1272.9	1206.1	1147.2	1075.6	995.5
37.5°	817.2	917.1	1026.9	1135.3	1211.3	1220.6	1168.3	1097.9	1014.9	930.7	836.5
40°	777.1	883.0	996.0	1105.4	1172.7	1163.0	1096.1	1018.8	919.9	817.1	729.6
42.5°	741.2	847.1	962.2	1069.5	1123.4	1096.9	1018.8	923.9	817.6	720.7	640.7
45°	679.1	788.1	905.9	1009.6	1040.3	992.5	889.2	783.7	679.1	598.2	534.9
47.5°	618.8	726.5	843.2	934.4	945.2	880.8	767.9	659.4	569.5	503.6	458.9
50°	574.5	682.6	798.1	879.5	876.0	798.1	682.2	578.9	503.7	450.5	420.6
52.5°	534.8	636.9	747.9	821.8	803.2	718.3	607.6	515.9	454.1	412.5	385.5
55°	472.9	567.4	672.9	732.3	697.9	603.9	510.3	436.4	390.7	359.6	338.5
57.5°	411.6	500.2	590.5	627.1	589.2	502.3	424.2	370.7	336.3	313.2	299.5
60°	373.6	451.0	531.4	563.0	517.7	440.4	378.8	331.0	303.2	284.4	272.1
62.5°	335.6	404.9	480.8	498.0	456.6	391.2	336.7	296.9	274.1	257.3	245.7
65°	284.0	340.6	398.2	409.7	371.4	320.9	277.8	251.8	231.6	219.3	210.1
67.5°	232.9	278.4	319.2	328.4	294.9	259.8	228.8	206.1	192.4	182.2	174.4
70°	202.6	238.7	272.1	279.6	252.7	221.5	197.8	179.8	167.5	158.7	151.2
72.5°	170.7	200.7	228.4	233.5	211.5	187.8	168.2	154.1	143.2	137.6	130.4
75°	130.5	148.1	169.6	171.0	156.4	142.0	127.0	117.8	112.1	105.0	101.5
77.5°	92.1	105.9	118.2	120.6	112.0	102.1	93.8	86.5	81.6	78.4	75.2
80°	70.3	81.3	86.6	89.6	83.5	76.5	71.6	66.8	63.7	61.6	59.3
82.5°	50.3	57.1	62.0	64.3	61.0	56.8	51.9	49.2	46.8	45.0	44.3
85°	25.5	28.6	31.7	32.5	31.7	29.9	27.2	27.2	25.9	25.5	25.5
87.5°	9.4	11.3	11.7	13.3	12.9	13.3	13.5	13.5	13.5	13.3	13.2
90°	3.2	5.4	7.7	9.9	11.8	13.4	15.1	16.7	18.3	19.3	20.3
92.5°	18.3	18.1	17.9	17.7	18.0	18.8	19.6	20.4	21.3	21.8	22.3
95°	52.8	46.1	39.3	32.6	30.0	31.4	32.9	34.3	35.7	36.7	37.7
97.5°	99.2	80.2	61.3	42.4	34.6	37.9	41.2	44.5	47.8	48.6	49.4
100°	134.1	106.2	78.4	50.5	38.3	41.8	45.3	48.7	52.2	53.8	55.4
102.5°	204.4	198.5	192.6	186.8	169.4	140.4	111.5	82.6	53.6	55.8	57.9
105°	284.4	290.4	296.5	302.6	277.9	222.4	166.9	111.3	55.8	58.0	60.3
107.5°	360.6	365.5	370.4	375.4	344.6	277.9	211.4	144.7	78.2	75.9	73.6
110°	409.7	414.1	418.3	422.6	395.3	336.5	277.8	219.0	160.1	139.8	119.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.2	459.9	463.6	467.4	462.1	447.5	433.1	418.5	404.0	329.8	255.6
115°	529.8	533.2	536.7	540.1	544.4	549.5	554.6	559.6	564.7	470.5	376.3
117.5°	596.2	600.1	604.0	607.9	611.5	615.0	618.5	622.0	625.5	602.7	580.0
120°	643.8	646.8	649.9	652.9	656.3	660.0	663.6	667.3	670.9	673.3	675.8
122.5°	684.9	688.1	691.4	694.6	698.2	702.1	706.1	710.2	714.1	715.6	717.0
125°	746.7	749.4	752.1	754.7	757.9	761.8	765.7	769.6	773.4	774.8	776.3
127.5°	803.7	806.6	809.5	812.4	815.3	818.2	821.0	824.0	826.9	829.0	831.0
130°	839.8	843.1	846.4	849.5	852.3	854.5	856.8	859.0	861.3	863.5	865.7
132.5°	876.0	878.7	881.5	884.2	886.7	889.0	891.2	893.5	895.7	897.6	899.5
135°	924.0	927.3	930.6	933.8	936.3	938.1	940.0	941.8	943.7	945.7	947.7
137.5°	971.2	973.4	975.8	978.0	980.2	982.3	984.4	986.4	988.5	990.5	992.5
140°	1002.0	1003.7	1005.3	1006.9	1008.8	1011.1	1013.3	1015.5	1017.8	1019.6	1021.5
142.5°	1028.2	1029.7	1031.1	1032.6	1034.7	1037.2	1039.7	1042.3	1044.9	1046.5	1048.2
145°	1067.9	1067.7	1067.6	1067.3	1068.9	1072.4	1075.8	1079.3	1082.8	1084.2	1085.6
147.5°	1103.5	1102.7	1101.9	1101.1	1102.4	1105.9	1109.2	1112.7	1116.1	1117.1	1118.2
150°	1126.2	1124.8	1123.3	1122.0	1122.8	1126.1	1129.4	1132.6	1135.8	1137.1	1138.3
152.5°	1145.8	1144.2	1142.6	1141.1	1141.8	1144.9	1148.0	1151.1	1154.2	1155.4	1156.6
155°	1174.3	1172.5	1170.6	1168.8	1169.2	1171.6	1174.0	1176.5	1178.9	1180.1	1181.3
157.5°	1197.1	1195.6	1194.0	1192.5	1192.6	1194.3	1195.9	1197.7	1199.4	1200.8	1202.1
160°	1210.7	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1213.1	1214.3
162.5°	1222.4	1221.1	1219.9	1218.7	1218.6	1219.6	1220.7	1221.8	1222.8	1224.2	1225.5
165°	1238.0	1236.8	1235.6	1234.4	1234.1	1234.7	1235.4	1236.0	1236.6	1237.9	1239.4
167.5°	1249.8	1248.5	1247.3	1246.1	1245.8	1246.4	1246.9	1247.5	1248.1	1249.5	1250.9
170°	1256.4	1255.2	1254.0	1252.8	1252.3	1252.8	1253.1	1253.5	1254.0	1255.3	1256.8
172.5°	1260.8	1259.6	1258.4	1257.1	1256.7	1257.1	1257.5	1257.9	1258.4	1259.7	1261.2
175°	1266.3	1264.8	1263.4	1262.0	1261.5	1261.9	1262.3	1262.7	1263.1	1264.6	1265.9
177.5°	1267.5	1266.3	1265.2	1264.0	1263.5	1263.7	1263.9	1264.0	1264.2	1265.3	1266.4
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1186.2	1191.1	1191.1	1191.8	1197.5	1196.7	1196.4
5°	1262.3	1269.8	1270.7	1278.6	1283.8	1282.1	1277.3
7.5°	1334.1	1348.1	1358.6	1364.4	1371.4	1375.7	1373.8
10°	1391.1	1411.4	1423.7	1432.0	1442.1	1449.6	1446.9
12.5°	1442.8	1466.9	1483.8	1498.1	1499.4	1509.0	1502.4
15°	1523.4	1548.9	1551.5	1562.1	1570.5	1569.5	1569.9
17.5°	1550.1	1558.2	1559.9	1560.1	1560.2	1557.1	1550.5
20°	1540.5	1537.5	1530.0	1524.3	1514.2	1512.9	1504.1
22.5°	1495.6	1485.7	1467.1	1454.7	1438.9	1434.8	1432.4
25°	1407.0	1385.3	1355.5	1326.9	1319.1	1303.6	1308.0
27.5°	1285.4	1251.8	1219.4	1196.2	1175.2	1152.2	1158.7
30°	1199.9	1162.1	1116.4	1081.2	1058.9	1036.8	1032.9
32.5°	1097.9	1042.6	991.5	960.6	926.3	912.4	897.2
35°	922.1	868.1	817.5	774.0	749.0	729.6	712.0
37.5°	764.0	701.7	661.0	625.7	607.6	596.5	599.3
40°	665.9	611.4	581.5	554.7	538.0	530.0	531.8
42.5°	586.4	545.6	521.0	502.7	490.9	486.5	485.4
45°	496.2	473.4	453.1	442.6	436.9	432.0	429.0
47.5°	434.7	416.0	404.7	398.4	393.4	388.5	388.4
50°	397.8	385.5	377.5	370.9	367.0	363.5	366.5
52.5°	369.6	358.3	350.5	344.6	343.1	339.9	339.8
55°	327.9	319.1	313.4	308.1	305.5	303.7	301.5
57.5°	289.9	281.5	276.3	272.9	267.9	266.1	265.4
60°	262.9	256.2	251.0	246.6	244.4	240.8	240.8
62.5°	237.9	231.3	226.4	223.0	219.4	218.0	218.3
65°	201.7	196.5	191.7	188.1	187.3	184.6	185.5
67.5°	168.5	165.0	159.9	158.0	156.3	154.9	153.9
70°	146.4	142.8	140.2	137.6	136.2	136.2	136.2
72.5°	127.7	123.5	121.9	118.6	119.3	118.0	116.6
75°	98.9	96.3	95.0	93.6	91.4	91.4	91.4
77.5°	72.8	72.0	70.4	69.0	68.4	68.0	68.2
80°	56.2	55.8	54.9	54.9	54.1	53.6	52.8
82.5°	43.2	42.1	41.6	41.2	41.1	41.0	40.8
85°	24.6	23.8	23.8	24.2	23.3	23.3	23.8
87.5°	13.8	13.9	13.8	13.9	14.3	14.0	14.1
90°	21.4	22.4	23.1	23.5	23.9	24.3	24.7
92.5°	22.8	23.3	23.8	24.0	24.2	24.5	24.7
95°	38.7	39.8	40.2	40.0	39.8	39.5	39.3
97.5°	50.2	51.1	51.6	51.8	52.1	52.3	52.5
100°	57.1	58.7	59.7	60.1	60.5	61.0	61.3
102.5°	60.0	62.1	63.5	64.0	64.6	65.2	65.7
105°	62.5	64.7	66.3	67.2	67.9	68.7	69.6
107.5°	71.3	69.1	68.4	69.1	69.9	70.8	71.5
110°	99.2	78.8	69.1	69.8	70.7	71.5	72.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	181.4	107.2	70.4	71.1	71.7	72.4	73.0
115°	282.2	188.0	133.6	119.0	104.4	89.7	75.1
117.5°	557.2	534.4	498.9	450.8	402.7	354.6	306.4
120°	678.2	680.7	668.1	640.7	613.2	585.7	558.4
122.5°	718.5	720.0	718.0	712.7	707.4	702.1	696.7
125°	777.7	779.1	780.2	780.8	781.4	782.0	782.6
127.5°	833.1	835.2	836.3	836.4	836.5	836.6	836.7
130°	868.0	870.2	871.2	871.1	870.8	870.6	870.5
132.5°	901.5	903.4	904.2	904.0	903.8	903.6	903.4
135°	949.8	951.7	952.6	952.2	951.7	951.4	951.0
137.5°	994.5	996.4	997.1	996.4	995.7	995.1	994.4
140°	1023.3	1025.1	1025.5	1024.5	1023.5	1022.4	1021.5
142.5°	1049.9	1051.5	1051.9	1050.9	1049.8	1048.9	1047.8
145°	1087.0	1088.5	1088.6	1087.7	1086.7	1085.6	1084.6
147.5°	1119.3	1120.3	1120.4	1119.6	1118.7	1117.8	1117.0
150°	1139.5	1140.7	1140.8	1139.8	1138.8	1137.8	1136.8
152.5°	1157.9	1159.1	1159.0	1157.6	1156.3	1154.9	1153.7
155°	1182.6	1183.8	1183.5	1181.9	1180.3	1178.7	1177.1
157.5°	1203.5	1204.9	1204.8	1203.2	1201.6	1200.1	1198.4
160°	1215.5	1216.7	1216.6	1215.2	1213.8	1212.4	1210.9
162.5°	1226.9	1228.4	1228.1	1226.4	1224.7	1222.9	1221.2
165°	1240.8	1242.3	1242.3	1240.8	1239.4	1237.9	1236.6
167.5°	1252.3	1253.8	1253.5	1251.7	1249.9	1248.1	1246.2
170°	1258.2	1259.6	1259.4	1257.6	1255.8	1254.0	1252.1
172.5°	1262.6	1264.0	1263.9	1262.0	1260.2	1258.4	1256.5
175°	1267.4	1268.8	1268.5	1266.4	1264.4	1262.4	1260.3
177.5°	1267.6	1268.8	1268.6	1267.1	1265.7	1264.2	1262.7
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

(END OF REPORT)