

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: P331543-935

Luminaire Tested: **S122DIW-S675D1240U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331543-935  
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: S122DIW-S675D1240U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6792.3 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

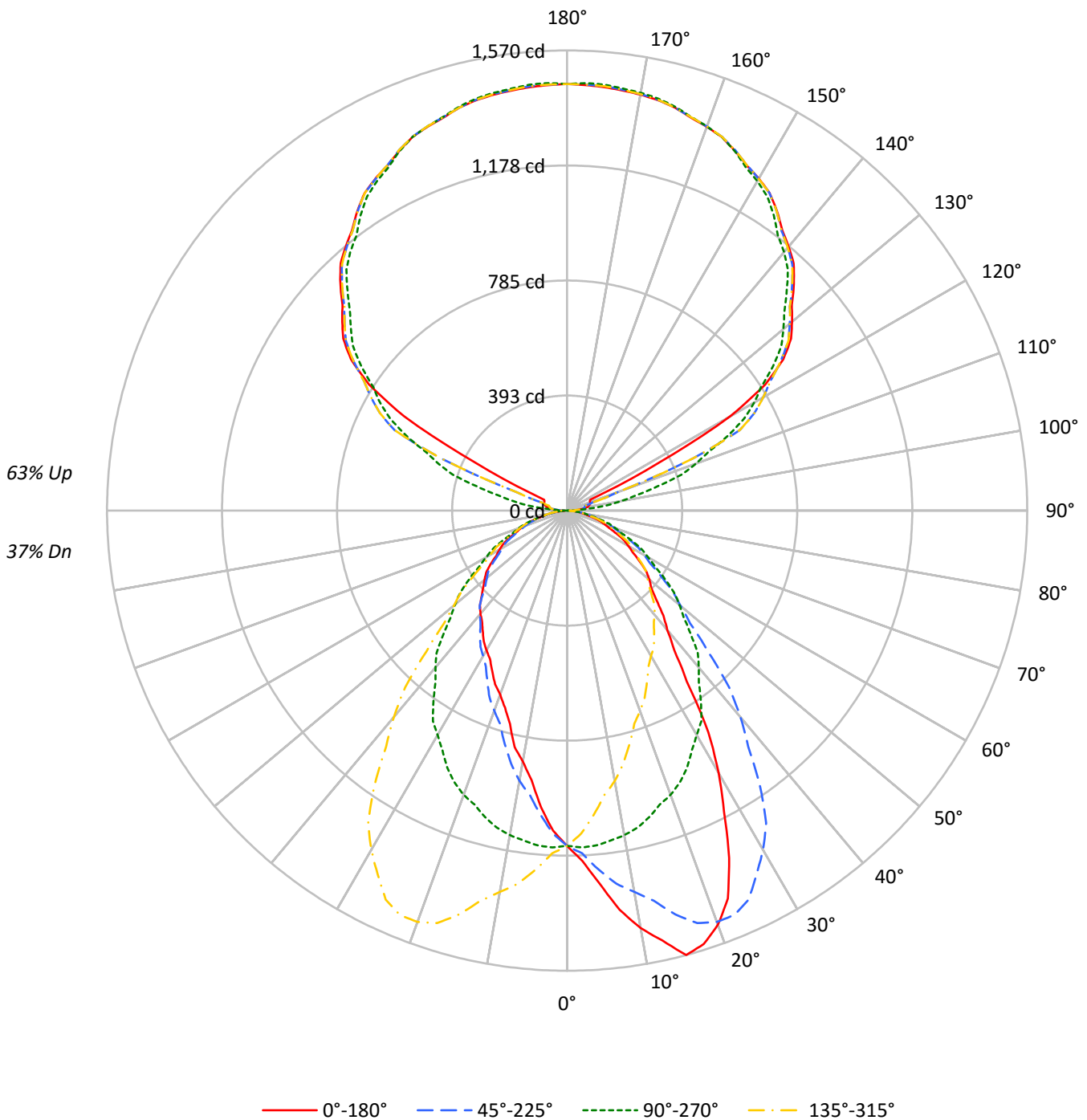
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37								
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32								
2	87	80	74	69	79	73	68	64	59	56	53	47	45	42	35	34	33	27								
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28	24								
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	29	26	25	21								
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18								
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16								
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14								
8	53	41	34	29	48	38	31	27	31	26	23	26	22	19	20	17	15	13								
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	18	16	14	12								
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11								

**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	1.6
10°-20°	316.6	4.7
20°-30°	459.5	6.8
30°-40°	484.9	7.1
40°-50°	429.4	6.3
50°-60°	342.6	5.0
60°-70°	232.9	3.4
70°-80°	119.4	1.8
80°-90°	32.4	0.5
90°-100°	48.6	0.7
100°-110°	178.1	2.6
110°-120°	476.0	7.0
120°-130°	785.7	11.6
130°-140°	835.5	12.3
140°-150°	776.6	11.4
150°-160°	624.4	9.2
160°-170°	402.3	5.9
170°-180°	138.5	2.0
0°-30°	885.1	13.0
0°-40°	1370.0	20.2
0°-60°	2142.0	31.5
0°-90°	2526.7	37.2
90°-120°	702.6	10.3
90°-150°	3100.4	45.6
90°-180°	4266.0	62.8
0°-180°	6792.3	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°	28	1	28	1	28	14
95°	45	68	45	68	45	42
105°	80	320	80	320	80	83
115°	86	606	86	606	86	216
125°	900	856	900	856	900	779
135°	1094	1060	1094	1060	1094	843
145°	1248	1229	1248	1229	1248	781
155°	1354	1353	1354	1353	1354	625
165°	1423	1426	1423	1426	1423	402
175°	1450	1459	1450	1459	1450	138
180°	1456	1456	1456	1456	1456	



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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°	14.8	14.7	15.0	14.6	14.5	14.6	14.4	13.9	13.9	14.0	14.0
90°	28.4	28.0	27.5	27.0	26.6	25.7	24.5	23.4	22.2	21.1	19.2
92.5°	28.4	28.2	27.9	27.6	27.3	26.9	26.3	25.7	25.1	24.5	23.5
95°	45.3	45.5	45.7	46.0	46.2	45.7	44.6	43.4	42.3	41.1	39.4
97.5°	60.4	60.2	59.9	59.6	59.3	58.7	57.8	56.8	55.9	55.0	51.2
100°	70.6	70.1	69.7	69.1	68.7	67.5	65.6	63.8	61.9	60.0	56.1
102.5°	75.6	75.0	74.3	73.6	73.0	71.5	69.1	66.6	64.1	61.7	59.0
105°	80.1	79.1	78.2	77.2	76.3	74.6	72.0	69.4	66.8	64.2	61.1
107.5°	82.4	81.5	80.5	79.6	78.6	79.5	82.1	84.7	87.3	90.0	92.1
110°	83.2	82.3	81.4	80.4	79.5	90.7	114.1	137.5	160.9	184.3	251.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	84.0	83.3	82.6	81.8	81.0	123.4	208.8	294.1	379.5	464.9	481.6
115°	86.4	103.2	120.1	136.9	153.8	216.4	324.8	433.1	541.5	649.9	644.0
117.5°	352.6	408.0	463.4	518.8	574.1	614.9	641.1	667.4	693.5	719.8	715.7
120°	642.5	674.1	705.7	737.3	768.9	783.3	780.4	777.7	774.8	772.0	767.8
122.5°	801.7	807.9	814.0	820.1	826.2	828.5	826.8	825.1	823.4	821.7	817.2
125°	900.5	899.8	899.1	898.4	897.7	896.6	894.9	893.3	891.7	890.0	885.5
127.5°	962.9	962.7	962.6	962.4	962.3	961.0	958.6	956.2	953.9	951.5	948.1
130°	1001.6	1001.9	1002.1	1002.3	1002.5	1001.3	998.8	996.3	993.7	991.1	988.5
132.5°	1039.6	1039.7	1040.0	1040.3	1040.4	1039.5	1037.2	1035.1	1032.9	1030.7	1028.1
135°	1094.3	1094.8	1095.3	1095.7	1096.1	1095.3	1092.9	1090.5	1088.2	1085.9	1083.7
137.5°	1144.2	1145.0	1145.8	1146.6	1147.4	1146.7	1144.4	1142.0	1139.8	1137.5	1135.1
140°	1175.4	1176.6	1177.8	1178.9	1180.1	1179.7	1177.5	1175.4	1173.3	1171.2	1168.6
142.5°	1205.7	1206.9	1208.1	1209.3	1210.4	1210.0	1208.2	1206.2	1204.3	1202.4	1199.4
145°	1248.1	1249.2	1250.4	1251.5	1252.8	1252.5	1250.9	1249.2	1247.6	1246.0	1242.0
147.5°	1285.4	1286.3	1287.3	1288.3	1289.3	1289.2	1288.0	1286.8	1285.6	1284.3	1280.4
150°	1308.1	1309.2	1310.4	1311.6	1312.8	1312.7	1311.3	1309.8	1308.5	1307.1	1303.3
152.5°	1327.5	1329.0	1330.6	1332.1	1333.7	1333.8	1332.3	1330.9	1329.6	1328.1	1324.6
155°	1354.4	1356.3	1358.2	1360.0	1361.9	1362.2	1360.8	1359.3	1358.0	1356.6	1353.8
157.5°	1379.1	1381.0	1382.8	1384.6	1386.4	1386.6	1384.9	1383.4	1381.7	1380.2	1378.2
160°	1393.4	1395.1	1396.7	1398.4	1400.0	1400.1	1398.7	1397.3	1395.9	1394.5	1393.1
162.5°	1405.2	1407.2	1409.2	1411.3	1413.2	1413.5	1411.9	1410.3	1408.7	1407.1	1405.9
165°	1422.9	1424.5	1426.2	1427.8	1429.4	1429.4	1427.8	1426.2	1424.5	1422.9	1422.2
167.5°	1434.1	1436.1	1438.3	1440.4	1442.5	1442.7	1441.1	1439.4	1437.8	1436.1	1435.5
170°	1440.8	1442.9	1445.0	1447.2	1449.2	1449.5	1447.9	1446.2	1444.6	1442.9	1442.4
172.5°	1445.9	1447.9	1450.1	1452.2	1454.3	1454.5	1452.9	1451.2	1449.6	1447.9	1447.5
175°	1450.3	1452.6	1455.0	1457.3	1459.7	1460.0	1458.4	1456.7	1455.1	1453.5	1453.0
177.5°	1453.0	1454.7	1456.4	1458.1	1459.7	1460.0	1458.6	1457.3	1456.0	1454.7	1454.5
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



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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°	14.0	13.6	13.3	13.5	12.0	11.5	9.6	7.9	8.1	8.3	8.1
90°	17.3	15.4	13.6	11.4	8.8	6.2	3.6	1.0	3.6	6.2	8.8
92.5°	22.6	21.6	20.7	20.3	20.6	20.8	21.0	21.3	21.0	20.8	20.6
95°	37.8	36.2	34.5	37.5	45.3	53.0	60.7	68.4	60.7	53.0	45.3
97.5°	47.4	43.6	39.8	48.8	70.6	92.3	114.1	135.9	114.1	92.3	70.6
100°	52.1	48.1	44.1	58.2	90.2	122.3	154.4	186.4	154.4	122.3	90.2
102.5°	128.3	161.5	194.8	214.9	221.7	228.4	235.2	242.0	235.2	228.4	221.7
105°	192.0	256.0	319.9	348.3	341.2	334.2	327.2	320.2	327.2	334.2	341.2
107.5°	243.2	319.9	396.5	432.0	426.3	420.6	414.9	409.3	414.9	420.6	426.3
110°	319.6	387.3	454.9	486.2	481.3	476.4	471.5	466.6	471.5	476.4	481.3





TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	498.3	515.1	531.8	538.0	533.6	529.2	524.9	520.5	524.9	529.2	533.6
115°	638.2	632.3	626.5	621.6	617.5	613.5	609.6	605.6	609.6	613.5	617.5
117.5°	711.7	707.7	703.7	699.5	695.0	690.5	686.1	681.7	686.1	690.5	695.0
120°	763.6	759.4	755.2	751.3	747.8	744.2	740.8	737.3	740.8	744.2	747.8
122.5°	812.5	808.0	803.4	799.3	795.6	791.9	788.2	784.5	788.2	791.9	795.6
125°	881.1	876.7	872.2	868.4	865.4	862.4	859.3	856.3	859.3	862.4	865.4
127.5°	944.9	941.5	938.2	934.9	931.5	928.1	924.7	921.4	924.7	928.1	931.5
130°	985.9	983.3	980.8	977.7	973.9	970.2	966.4	962.7	966.4	970.2	973.9
132.5°	1025.5	1023.0	1020.4	1017.5	1014.3	1011.2	1008.0	1004.8	1008.0	1011.2	1014.3
135°	1081.7	1079.5	1077.5	1074.5	1070.7	1067.0	1063.2	1059.5	1063.2	1067.0	1070.7
137.5°	1132.7	1130.3	1127.9	1125.4	1122.8	1120.2	1117.6	1114.9	1117.6	1120.2	1122.8
140°	1166.1	1163.5	1160.9	1158.6	1156.8	1154.9	1153.1	1151.2	1153.1	1154.9	1156.8
142.5°	1196.4	1193.5	1190.6	1188.3	1186.5	1184.9	1183.2	1181.6	1183.2	1184.9	1186.5
145°	1238.0	1234.1	1230.0	1228.2	1228.4	1228.6	1228.9	1229.1	1228.9	1228.6	1228.4
147.5°	1276.4	1272.5	1268.6	1267.0	1267.9	1268.9	1269.7	1270.6	1269.7	1268.9	1267.9
150°	1299.6	1295.8	1292.1	1291.0	1292.6	1294.3	1296.0	1297.6	1296.0	1294.3	1292.6
152.5°	1321.0	1317.4	1313.9	1313.0	1314.8	1316.6	1318.5	1320.3	1318.5	1316.6	1314.8
155°	1350.9	1348.2	1345.3	1345.0	1347.0	1349.2	1351.3	1353.4	1351.3	1349.2	1347.0
157.5°	1376.2	1374.2	1372.3	1372.2	1374.0	1375.7	1377.5	1379.3	1377.5	1375.7	1374.0
160°	1391.6	1390.3	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5	1393.1	1391.6	1390.3
162.5°	1404.6	1403.4	1402.2	1402.3	1403.8	1405.2	1406.5	1408.0	1406.5	1405.2	1403.8
165°	1421.5	1420.8	1420.1	1420.5	1421.9	1423.2	1424.7	1426.1	1424.7	1423.2	1421.9
167.5°	1434.9	1434.3	1433.6	1433.9	1435.4	1436.8	1438.1	1439.6	1438.1	1436.8	1435.4
170°	1442.0	1441.5	1441.1	1441.5	1442.9	1444.3	1445.7	1447.2	1445.7	1444.3	1442.9
172.5°	1447.0	1446.6	1446.1	1446.6	1447.9	1449.4	1450.8	1452.2	1450.8	1449.4	1447.9
175°	1452.5	1452.1	1451.6	1452.2	1453.8	1455.4	1457.1	1458.7	1457.1	1455.4	1453.8
177.5°	1454.3	1454.1	1454.0	1454.5	1455.9	1457.2	1458.4	1459.7	1458.4	1457.2	1455.9
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-A

**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°	8.3	8.4	8.4	8.7	8.8	8.8	8.7	8.9	9.1	8.7	8.9
90°	11.4	13.6	15.4	17.3	19.2	21.1	22.2	23.4	24.5	25.7	26.6
92.5°	20.3	20.7	21.6	22.6	23.5	24.5	25.1	25.7	26.3	26.9	27.3
95°	37.5	34.5	36.2	37.8	39.4	41.1	42.3	43.4	44.6	45.7	46.2
97.5°	48.8	39.8	43.6	47.4	51.2	55.0	55.9	56.8	57.8	58.7	59.3
100°	58.2	44.1	48.1	52.1	56.1	60.0	61.9	63.8	65.6	67.5	68.7
102.5°	214.9	194.8	161.5	128.3	95.0	61.7	64.1	66.6	69.1	71.5	73.0
105°	348.3	319.9	256.0	192.0	128.1	64.2	66.8	69.4	72.0	74.6	76.3
107.5°	432.0	396.5	319.9	243.2	166.6	90.0	87.3	84.7	82.1	79.5	78.6
110°	486.2	454.9	387.3	319.6	251.9	184.3	160.9	137.5	114.1	90.7	79.5



TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	538.0	531.8	515.1	498.3	481.6	464.9	379.5	294.1	208.8	123.4	81.0
115°	621.6	626.5	632.3	638.2	644.0	649.9	541.5	433.1	324.8	216.4	153.8
117.5°	699.5	703.7	707.7	711.7	715.7	719.8	693.5	667.4	641.1	614.9	574.1
120°	751.3	755.2	759.4	763.6	767.8	772.0	774.8	777.7	780.4	783.3	768.9
122.5°	799.3	803.4	808.0	812.5	817.2	821.7	823.4	825.1	826.8	828.5	826.2
125°	868.4	872.2	876.7	881.1	885.5	890.0	891.7	893.3	894.9	896.6	897.7
127.5°	934.9	938.2	941.5	944.9	948.1	951.5	953.9	956.2	958.6	961.0	962.3
130°	977.7	980.8	983.3	985.9	988.5	991.1	993.7	996.3	998.8	1001.3	1002.5
132.5°	1017.5	1020.4	1023.0	1025.5	1028.1	1030.7	1032.9	1035.1	1037.2	1039.5	1040.4
135°	1074.5	1077.5	1079.5	1081.7	1083.7	1085.9	1088.2	1090.5	1092.9	1095.3	1096.1
137.5°	1125.4	1127.9	1130.3	1132.7	1135.1	1137.5	1139.8	1142.0	1144.4	1146.7	1147.4
140°	1158.6	1160.9	1163.5	1166.1	1168.6	1171.2	1173.3	1175.4	1177.5	1179.7	1180.1
142.5°	1188.3	1190.6	1193.5	1196.4	1199.4	1202.4	1204.3	1206.2	1208.2	1210.0	1210.4
145°	1228.2	1230.0	1234.1	1238.0	1242.0	1246.0	1247.6	1249.2	1250.9	1252.5	1252.8
147.5°	1267.0	1268.6	1272.5	1276.4	1280.4	1284.3	1285.6	1286.8	1288.0	1289.2	1289.3
150°	1291.0	1292.1	1295.8	1299.6	1303.3	1307.1	1308.5	1309.8	1311.3	1312.7	1312.8
152.5°	1313.0	1313.9	1317.4	1321.0	1324.6	1328.1	1329.6	1330.9	1332.3	1333.8	1333.7
155°	1345.0	1345.3	1348.2	1350.9	1353.8	1356.6	1358.0	1359.3	1360.8	1362.2	1361.9
157.5°	1372.2	1372.3	1374.2	1376.2	1378.2	1380.2	1381.7	1383.4	1384.9	1386.6	1386.4
160°	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5	1395.9	1397.3	1398.7	1400.1	1400.0
162.5°	1402.3	1402.2	1403.4	1404.6	1405.9	1407.1	1408.7	1410.3	1411.9	1413.5	1413.2
165°	1420.5	1420.1	1420.8	1421.5	1422.2	1422.9	1424.5	1426.2	1427.8	1429.4	1429.4
167.5°	1433.9	1433.6	1434.3	1434.9	1435.5	1436.1	1437.8	1439.4	1441.1	1442.7	1442.5
170°	1441.5	1441.1	1441.5	1442.0	1442.4	1442.9	1444.6	1446.2	1447.9	1449.5	1449.2
172.5°	1446.6	1446.1	1446.6	1447.0	1447.5	1447.9	1449.6	1451.2	1452.9	1454.5	1454.3
175°	1452.2	1451.6	1452.1	1452.5	1453.0	1453.5	1455.1	1456.7	1458.4	1460.0	1459.7
177.5°	1454.5	1454.0	1454.1	1454.3	1454.5	1454.7	1456.0	1457.3	1458.6	1460.0	1459.7
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-A

**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°	9.0	8.7	8.8	8.5	8.8	8.7	9.0	8.9	8.7	9.1	8.9
90°	27.0	27.5	28.0	28.4	28.0	27.5	27.0	26.6	25.7	24.5	23.4
92.5°	27.6	27.9	28.2	28.4	28.2	27.9	27.6	27.3	26.9	26.3	25.7
95°	46.0	45.7	45.5	45.3	45.5	45.7	46.0	46.2	45.7	44.6	43.4
97.5°	59.6	59.9	60.2	60.4	60.2	59.9	59.6	59.3	58.7	57.8	56.8
100°	69.1	69.7	70.1	70.6	70.1	69.7	69.1	68.7	67.5	65.6	63.8
102.5°	73.6	74.3	75.0	75.6	75.0	74.3	73.6	73.0	71.5	69.1	66.6
105°	77.2	78.2	79.1	80.1	79.1	78.2	77.2	76.3	74.6	72.0	69.4
107.5°	79.6	80.5	81.5	82.4	81.5	80.5	79.6	78.6	79.5	82.1	84.7
110°	80.4	81.4	82.3	83.2	82.3	81.4	80.4	79.5	90.7	114.1	137.5



TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	81.8	82.6	83.3	84.0	83.3	82.6	81.8	81.0	123.4	208.8	294.1
115°	136.9	120.1	103.2	86.4	103.2	120.1	136.9	153.8	216.4	324.8	433.1
117.5°	518.8	463.4	408.0	352.6	408.0	463.4	518.8	574.1	614.9	641.1	667.4
120°	737.3	705.7	674.1	642.5	674.1	705.7	737.3	768.9	783.3	780.4	777.7
122.5°	820.1	814.0	807.9	801.7	807.9	814.0	820.1	826.2	828.5	826.8	825.1
125°	898.4	899.1	899.8	900.5	899.8	899.1	898.4	897.7	896.6	894.9	893.3
127.5°	962.4	962.6	962.7	962.9	962.7	962.6	962.4	962.3	961.0	958.6	956.2
130°	1002.3	1002.1	1001.9	1001.6	1001.9	1002.1	1002.3	1002.5	1001.3	998.8	996.3
132.5°	1040.3	1040.0	1039.7	1039.6	1039.7	1040.0	1040.3	1040.4	1039.5	1037.2	1035.1
135°	1095.7	1095.3	1094.8	1094.3	1094.8	1095.3	1095.7	1096.1	1095.3	1092.9	1090.5
137.5°	1146.6	1145.8	1145.0	1144.2	1145.0	1145.8	1146.6	1147.4	1146.7	1144.4	1142.0
140°	1178.9	1177.8	1176.6	1175.4	1176.6	1177.8	1178.9	1180.1	1179.7	1177.5	1175.4
142.5°	1209.3	1208.1	1206.9	1205.7	1206.9	1208.1	1209.3	1210.4	1210.0	1208.2	1206.2
145°	1251.5	1250.4	1249.2	1248.1	1249.2	1250.4	1251.5	1252.8	1252.5	1250.9	1249.2
147.5°	1288.3	1287.3	1286.3	1285.4	1286.3	1287.3	1288.3	1289.3	1289.2	1288.0	1286.8
150°	1311.6	1310.4	1309.2	1308.1	1309.2	1310.4	1311.6	1312.8	1312.7	1311.3	1309.8
152.5°	1332.1	1330.6	1329.0	1327.5	1329.0	1330.6	1332.1	1333.7	1333.8	1332.3	1330.9
155°	1360.0	1358.2	1356.3	1354.4	1356.3	1358.2	1360.0	1361.9	1362.2	1360.8	1359.3
157.5°	1384.6	1382.8	1381.0	1379.1	1381.0	1382.8	1384.6	1386.4	1386.6	1384.9	1383.4
160°	1398.4	1396.7	1395.1	1393.4	1395.1	1396.7	1398.4	1400.0	1400.1	1398.7	1397.3
162.5°	1411.3	1409.2	1407.2	1405.2	1407.2	1409.2	1411.3	1413.2	1413.5	1411.9	1410.3
165°	1427.8	1426.2	1424.5	1422.9	1424.5	1426.2	1427.8	1429.4	1429.4	1427.8	1426.2
167.5°	1440.4	1438.3	1436.1	1434.1	1436.1	1438.3	1440.4	1442.5	1442.7	1441.1	1439.4
170°	1447.2	1445.0	1442.9	1440.8	1442.9	1445.0	1447.2	1449.2	1449.5	1447.9	1446.2
172.5°	1452.2	1450.1	1447.9	1445.9	1447.9	1450.1	1452.2	1454.3	1454.5	1452.9	1451.2
175°	1457.3	1455.0	1452.6	1450.3	1452.6	1455.0	1457.3	1459.7	1460.0	1458.4	1456.7
177.5°	1458.1	1456.4	1454.7	1453.0	1454.7	1456.4	1458.1	1459.7	1460.0	1458.6	1457.3
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-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°	8.7	8.8	8.8	8.7	8.4	8.4	8.3	8.1	8.3	8.1	7.9
90°	22.2	21.1	19.2	17.3	15.4	13.6	11.4	8.8	6.2	3.6	1.0
92.5°	25.1	24.5	23.5	22.6	21.6	20.7	20.3	20.6	20.8	21.0	21.3
95°	42.3	41.1	39.4	37.8	36.2	34.5	37.5	45.3	53.0	60.7	68.4
97.5°	55.9	55.0	51.2	47.4	43.6	39.8	48.8	70.6	92.3	114.1	135.9
100°	61.9	60.0	56.1	52.1	48.1	44.1	58.2	90.2	122.3	154.4	186.4
102.5°	64.1	61.7	95.0	128.3	161.5	194.8	214.9	221.7	228.4	235.2	242.0
105°	66.8	64.2	128.1	192.0	256.0	319.9	348.3	341.2	334.2	327.2	320.2
107.5°	87.3	90.0	166.6	243.2	319.9	396.5	432.0	426.3	420.6	414.9	409.3
110°	160.9	184.3	251.9	319.6	387.3	454.9	486.2	481.3	476.4	471.5	466.6



TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	379.5	464.9	481.6	498.3	515.1	531.8	538.0	533.6	529.2	524.9	520.5
115°	541.5	649.9	644.0	638.2	632.3	626.5	621.6	617.5	613.5	609.6	605.6
117.5°	693.5	719.8	715.7	711.7	707.7	703.7	699.5	695.0	690.5	686.1	681.7
120°	774.8	772.0	767.8	763.6	759.4	755.2	751.3	747.8	744.2	740.8	737.3
122.5°	823.4	821.7	817.2	812.5	808.0	803.4	799.3	795.6	791.9	788.2	784.5
125°	891.7	890.0	885.5	881.1	876.7	872.2	868.4	865.4	862.4	859.3	856.3
127.5°	953.9	951.5	948.1	944.9	941.5	938.2	934.9	931.5	928.1	924.7	921.4
130°	993.7	991.1	988.5	985.9	983.3	980.8	977.7	973.9	970.2	966.4	962.7
132.5°	1032.9	1030.7	1028.1	1025.5	1023.0	1020.4	1017.5	1014.3	1011.2	1008.0	1004.8
135°	1088.2	1085.9	1083.7	1081.7	1079.5	1077.5	1074.5	1070.7	1067.0	1063.2	1059.5
137.5°	1139.8	1137.5	1135.1	1132.7	1130.3	1127.9	1125.4	1122.8	1120.2	1117.6	1114.9
140°	1173.3	1171.2	1168.6	1166.1	1163.5	1160.9	1158.6	1156.8	1154.9	1153.1	1151.2
142.5°	1204.3	1202.4	1199.4	1196.4	1193.5	1190.6	1188.3	1186.5	1184.9	1183.2	1181.6
145°	1247.6	1246.0	1242.0	1238.0	1234.1	1230.0	1228.2	1228.4	1228.6	1228.9	1229.1
147.5°	1285.6	1284.3	1280.4	1276.4	1272.5	1268.6	1267.0	1267.9	1268.9	1269.7	1270.6
150°	1308.5	1307.1	1303.3	1299.6	1295.8	1292.1	1291.0	1292.6	1294.3	1296.0	1297.6
152.5°	1329.6	1328.1	1324.6	1321.0	1317.4	1313.9	1313.0	1314.8	1316.6	1318.5	1320.3
155°	1358.0	1356.6	1353.8	1350.9	1348.2	1345.3	1345.0	1347.0	1349.2	1351.3	1353.4
157.5°	1381.7	1380.2	1378.2	1376.2	1374.2	1372.3	1372.2	1374.0	1375.7	1377.5	1379.3
160°	1395.9	1394.5	1393.1	1391.6	1390.3	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5
162.5°	1408.7	1407.1	1405.9	1404.6	1403.4	1402.2	1402.3	1403.8	1405.2	1406.5	1408.0
165°	1424.5	1422.9	1422.2	1421.5	1420.8	1420.1	1420.5	1421.9	1423.2	1424.7	1426.1
167.5°	1437.8	1436.1	1435.5	1434.9	1434.3	1433.6	1433.9	1435.4	1436.8	1438.1	1439.6
170°	1444.6	1442.9	1442.4	1442.0	1441.5	1441.1	1441.5	1442.9	1444.3	1445.7	1447.2
172.5°	1449.6	1447.9	1447.5	1447.0	1446.6	1446.1	1446.6	1447.9	1449.4	1450.8	1452.2
175°	1455.1	1453.5	1453.0	1452.5	1452.1	1451.6	1452.2	1453.8	1455.4	1457.1	1458.7
177.5°	1456.0	1454.7	1454.5	1454.3	1454.1	1454.0	1454.5	1455.9	1457.2	1458.4	1459.7
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331543-935

CATALOG NUMBER: S122DIW-S675D1240U935-4F0-1E-UDD-A

**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°	9.6	11.5	12.0	13.5	13.3	13.6	14.0	14.0	14.0	13.9	13.9
90°	3.6	6.2	8.8	11.4	13.6	15.4	17.3	19.2	21.1	22.2	23.4
92.5°	21.0	20.8	20.6	20.3	20.7	21.6	22.6	23.5	24.5	25.1	25.7
95°	60.7	53.0	45.3	37.5	34.5	36.2	37.8	39.4	41.1	42.3	43.4
97.5°	114.1	92.3	70.6	48.8	39.8	43.6	47.4	51.2	55.0	55.9	56.8
100°	154.4	122.3	90.2	58.2	44.1	48.1	52.1	56.1	60.0	61.9	63.8
102.5°	235.2	228.4	221.7	214.9	194.8	161.5	128.3	95.0	61.7	64.1	66.6
105°	327.2	334.2	341.2	348.3	319.9	256.0	192.0	128.1	64.2	66.8	69.4
107.5°	414.9	420.6	426.3	432.0	396.5	319.9	243.2	166.6	90.0	87.3	84.7
110°	471.5	476.4	481.3	486.2	454.9	387.3	319.6	251.9	184.3	160.9	137.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	524.9	529.2	533.6	538.0	531.8	515.1	498.3	481.6	464.9	379.5	294.1
115°	609.6	613.5	617.5	621.6	626.5	632.3	638.2	644.0	649.9	541.5	433.1
117.5°	686.1	690.5	695.0	699.5	703.7	707.7	711.7	715.7	719.8	693.5	667.4
120°	740.8	744.2	747.8	751.3	755.2	759.4	763.6	767.8	772.0	774.8	777.7
122.5°	788.2	791.9	795.6	799.3	803.4	808.0	812.5	817.2	821.7	823.4	825.1
125°	859.3	862.4	865.4	868.4	872.2	876.7	881.1	885.5	890.0	891.7	893.3
127.5°	924.7	928.1	931.5	934.9	938.2	941.5	944.9	948.1	951.5	953.9	956.2
130°	966.4	970.2	973.9	977.7	980.8	983.3	985.9	988.5	991.1	993.7	996.3
132.5°	1008.0	1011.2	1014.3	1017.5	1020.4	1023.0	1025.5	1028.1	1030.7	1032.9	1035.1
135°	1063.2	1067.0	1070.7	1074.5	1077.5	1079.5	1081.7	1083.7	1085.9	1088.2	1090.5
137.5°	1117.6	1120.2	1122.8	1125.4	1127.9	1130.3	1132.7	1135.1	1137.5	1139.8	1142.0
140°	1153.1	1154.9	1156.8	1158.6	1160.9	1163.5	1166.1	1168.6	1171.2	1173.3	1175.4
142.5°	1183.2	1184.9	1186.5	1188.3	1190.6	1193.5	1196.4	1199.4	1202.4	1204.3	1206.2
145°	1228.9	1228.6	1228.4	1228.2	1230.0	1234.1	1238.0	1242.0	1246.0	1247.6	1249.2
147.5°	1269.7	1268.9	1267.9	1267.0	1268.6	1272.5	1276.4	1280.4	1284.3	1285.6	1286.8
150°	1296.0	1294.3	1292.6	1291.0	1292.1	1295.8	1299.6	1303.3	1307.1	1308.5	1309.8
152.5°	1318.5	1316.6	1314.8	1313.0	1313.9	1317.4	1321.0	1324.6	1328.1	1329.6	1330.9
155°	1351.3	1349.2	1347.0	1345.0	1345.3	1348.2	1350.9	1353.8	1356.6	1358.0	1359.3
157.5°	1377.5	1375.7	1374.0	1372.2	1372.3	1374.2	1376.2	1378.2	1380.2	1381.7	1383.4
160°	1393.1	1391.6	1390.3	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5	1395.9	1397.3
162.5°	1406.5	1405.2	1403.8	1402.3	1402.2	1403.4	1404.6	1405.9	1407.1	1408.7	1410.3
165°	1424.7	1423.2	1421.9	1420.5	1420.1	1420.8	1421.5	1422.2	1422.9	1424.5	1426.2
167.5°	1438.1	1436.8	1435.4	1433.9	1433.6	1434.3	1434.9	1435.5	1436.1	1437.8	1439.4
170°	1445.7	1444.3	1442.9	1441.5	1441.1	1441.5	1442.0	1442.4	1442.9	1444.6	1446.2
172.5°	1450.8	1449.4	1447.9	1446.6	1446.1	1446.6	1447.0	1447.5	1447.9	1449.6	1451.2
175°	1457.1	1455.4	1453.8	1452.2	1451.6	1452.1	1452.5	1453.0	1453.5	1455.1	1456.7
177.5°	1458.4	1457.2	1455.9	1454.5	1454.0	1454.1	1454.3	1454.5	1454.7	1456.0	1457.3
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



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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°	14.4	14.6	14.5	14.6	15.0	14.7	14.8
90°	24.5	25.7	26.6	27.0	27.5	28.0	28.4
92.5°	26.3	26.9	27.3	27.6	27.9	28.2	28.4
95°	44.6	45.7	46.2	46.0	45.7	45.5	45.3
97.5°	57.8	58.7	59.3	59.6	59.9	60.2	60.4
100°	65.6	67.5	68.7	69.1	69.7	70.1	70.6
102.5°	69.1	71.5	73.0	73.6	74.3	75.0	75.6
105°	72.0	74.6	76.3	77.2	78.2	79.1	80.1
107.5°	82.1	79.5	78.6	79.6	80.5	81.5	82.4
110°	114.1	90.7	79.5	80.4	81.4	82.3	83.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	208.8	123.4	81.0	81.8	82.6	83.3	84.0
115°	324.8	216.4	153.8	136.9	120.1	103.2	86.4
117.5°	641.1	614.9	574.1	518.8	463.4	408.0	352.6
120°	780.4	783.3	768.9	737.3	705.7	674.1	642.5
122.5°	826.8	828.5	826.2	820.1	814.0	807.9	801.7
125°	894.9	896.6	897.7	898.4	899.1	899.8	900.5
127.5°	958.6	961.0	962.3	962.4	962.6	962.7	962.9
130°	998.8	1001.3	1002.5	1002.3	1002.1	1001.9	1001.6
132.5°	1037.2	1039.5	1040.4	1040.3	1040.0	1039.7	1039.6
135°	1092.9	1095.3	1096.1	1095.7	1095.3	1094.8	1094.3
137.5°	1144.4	1146.7	1147.4	1146.6	1145.8	1145.0	1144.2
140°	1177.5	1179.7	1180.1	1178.9	1177.8	1176.6	1175.4
142.5°	1208.2	1210.0	1210.4	1209.3	1208.1	1206.9	1205.7
145°	1250.9	1252.5	1252.8	1251.5	1250.4	1249.2	1248.1
147.5°	1288.0	1289.2	1289.3	1288.3	1287.3	1286.3	1285.4
150°	1311.3	1312.7	1312.8	1311.6	1310.4	1309.2	1308.1
152.5°	1332.3	1333.8	1333.7	1332.1	1330.6	1329.0	1327.5
155°	1360.8	1362.2	1361.9	1360.0	1358.2	1356.3	1354.4
157.5°	1384.9	1386.6	1386.4	1384.6	1382.8	1381.0	1379.1
160°	1398.7	1400.1	1400.0	1398.4	1396.7	1395.1	1393.4
162.5°	1411.9	1413.5	1413.2	1411.3	1409.2	1407.2	1405.2
165°	1427.8	1429.4	1429.4	1427.8	1426.2	1424.5	1422.9
167.5°	1441.1	1442.7	1442.5	1440.4	1438.3	1436.1	1434.1
170°	1447.9	1449.5	1449.2	1447.2	1445.0	1442.9	1440.8
172.5°	1452.9	1454.5	1454.3	1452.2	1450.1	1447.9	1445.9
175°	1458.4	1460.0	1459.7	1457.3	1455.0	1452.6	1450.3
177.5°	1458.6	1460.0	1459.7	1458.1	1456.4	1454.7	1453.0
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5

(END OF REPORT)