

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: P331550-935

Luminaire Tested: **S122DIW-S675D1440U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331550-935  
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-S675D1440U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6830.2 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

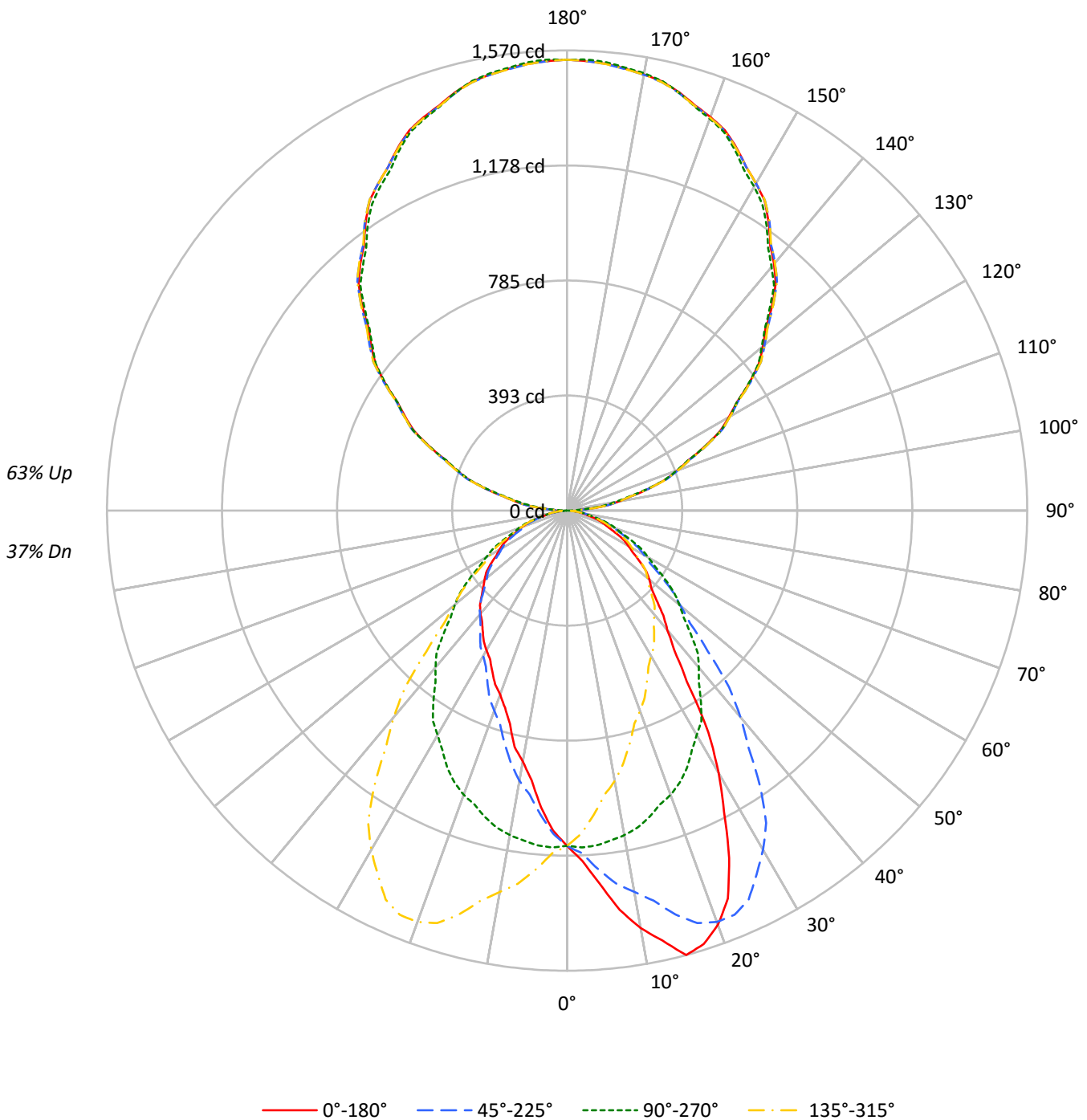
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76		59	59	59		44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63		53	51	50		40	39	38	32
2	87	80	74	69	79	73	68	64	59	56	53		47	44	42		35	34	32	27
3	80	71	64	58	72	64	58	54	53	48	45		42	39	36		32	30	28	23
4	73	63	55	49	66	57	51	46	47	42	38		37	34	31		28	26	24	20
5	67	56	48	42	61	51	44	39	42	37	33		34	30	27		26	23	22	18
6	62	50	42	37	56	46	39	34	38	33	29		30	27	24		23	21	19	16
7	57	45	38	32	52	42	35	30	34	29	26		28	24	21		22	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23		25	22	19		20	17	15	13
9	49	38	30	25	45	35	28	24	29	24	21		23	20	17		18	16	14	12
10	46	34	27	23	42	32	26	21	27	22	18		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	4.6
20°-30°	459.5	6.7
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	1.7
80°-90°	34.9	0.5
90°-100°	97.5	1.4
100°-110°	302.7	4.4
110°-120°	517.4	7.6
120°-130°	680.4	10.0
130°-140°	763.7	11.2
140°-150°	748.8	11.0
150°-160°	628.1	9.2
160°-170°	416.6	6.1
170°-180°	145.6	2.1
0°-30°	885.1	13.0
0°-40°	1370.0	20.1
0°-60°	2142.0	31.4
0°-90°	2529.2	37.0
90°-120°	917.6	13.4
90°-150°	3110.6	45.5
90°-180°	4301.0	63.0
0°-180°	6830.2	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°	44	1	44	1	44	20
95°	80	68	80	68	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	513
125°	758	755	758	755	758	676
135°	989	977	989	977	989	761
145°	1199	1186	1199	1186	1199	749
155°	1367	1356	1367	1356	1367	629
165°	1477	1476	1477	1476	1477	417
175°	1530	1536	1530	1536	1530	145
180°	1538	1538	1538	1538	1538	



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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°	18.0	17.9	18.2	17.8	17.7	18.1	18.3	18.0	18.4	18.9	18.0
90°	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3	44.9	45.5	39.1
92.5°	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5	41.4	41.2	39.8
95°	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1	83.1	83.1	82.5
97.5°	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7	139.7	139.7	138.5
100°	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1	179.1	179.1	178.2
102.5°	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1	222.0	221.7	220.6
105°	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7	286.1	285.6	285.0
107.5°	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4	356.1	355.9	355.9
110°	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7	403.7	403.7	403.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1	451.8	452.5	452.7
115°	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8	524.1	524.4	525.0
117.5°	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2	594.9	595.6	597.1
120°	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2	641.2	641.2	643.5
122.5°	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7	690.3	691.0	692.7
125°	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5	762.3	763.2	764.1
127.5°	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2	832.2	833.4	834.4
130°	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9	879.5	880.0	880.6
132.5°	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3	926.5	927.8	927.7
135°	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7	994.0	994.3	993.7
137.5°	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2	1059.5	1059.7	1058.9
140°	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3	1103.3	1103.3	1101.9
142.5°	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2	1143.0	1142.8	1141.8
145°	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9	1203.5	1203.2	1201.5
147.5°	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0	1256.4	1255.7	1254.6
150°	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9	1287.8
152.5°	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2	1320.8
155°	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1	1365.6	1364.2	1363.3
157.5°	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5	1404.5	1402.7	1402.1
160°	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9	1428.2	1426.5	1426.2
162.5°	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2	1449.2	1447.3	1447.0
165°	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6	1476.5	1474.5	1474.5
167.5°	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2	1499.2	1497.1	1497.2
170°	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6	1511.6	1509.6	1509.8
172.5°	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9	1521.0	1518.9	1519.2
175°	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1	1531.1	1529.0	1529.7
177.5°	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0	1535.5
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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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°	17.1	15.8	14.6	14.3	12.6	11.9	9.7	8.0	8.4	8.7	8.7
90°	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3	4.7	8.2	11.7
92.5°	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1	25.7	28.2	30.7
95°	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5	70.3	73.3	76.1
97.5°	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3	125.9	128.4	131.0
100°	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9	167.1	169.4	171.8
102.5°	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4	210.3	212.2	214.0
105°	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1	279.9	280.8	281.6
107.5°	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2	351.5	352.8	354.0
110°	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9	397.6	399.3	401.1





TEST NUMBER: P331550-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7	447.5	449.2	450.9
115°	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2	520.9	522.6	524.4
117.5°	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5	594.7	597.0	599.3
120°	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	643.5	645.8	648.2
122.5°	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9	688.6	691.4	694.1
125°	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4	758.0	760.6	763.2
127.5°	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2	826.5	829.7	833.1
130°	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7	869.5	873.3	877.0
132.5°	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5	916.6	919.6	922.7
135°	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4	980.6	983.8	986.9
137.5°	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7	1047.2	1049.8	1052.4
140°	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1	1087.7	1090.4	1093.0
142.5°	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7	1129.3	1131.9	1134.5
145°	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4	1188.4	1190.4	1192.4
147.5°	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6	1242.0	1244.4	1246.9
150°	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9	1277.6	1279.4	1281.2
152.5°	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1	1309.8	1311.6	1313.3
155°	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4	1357.3	1358.1	1359.0
157.5°	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7	1398.3	1398.9	1399.5
160°	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6	1423.2	1423.7	1424.4
162.5°	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4	1445.6	1445.7	1445.8
165°	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8	1475.6	1475.2	1475.0
167.5°	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2	1500.4	1499.5	1498.7
170°	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8	1513.9	1513.0	1512.2
172.5°	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1	1523.3	1522.4	1521.6
175°	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5	1534.6	1533.8	1532.9
177.5°	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2	1539.6	1538.9	1538.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331550-935

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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°	9.0	9.6	10.6	11.8	12.7	13.7	13.2	13.1	13.0	12.1	12.1
90°	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3	43.7	43.1	43.0
92.5°	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5	41.6	41.8	41.8
95°	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1	83.1	83.1	82.7
97.5°	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7	139.7	139.7	139.7
100°	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1	179.1	179.1	179.0
102.5°	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1	222.4	222.7	222.6
105°	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7	287.3	287.8	288.2
107.5°	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4	356.6	356.8	356.3
110°	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.2



TEST NUMBER: P331550-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1	450.4	449.7	449.0
115°	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8	523.5	523.2	522.6
117.5°	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2	593.5	592.8	591.9
120°	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2	641.2	641.2	640.8
122.5°	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7	689.0	688.3	687.6
125°	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5	760.6	759.7	759.2
127.5°	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2	830.2	829.1	828.2
130°	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9	878.3	877.7	876.8
132.5°	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3	924.0	922.7	921.6
135°	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7	993.4	993.2	992.6
137.5°	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2	1059.0	1058.8	1058.1
140°	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3	1103.3	1103.3	1102.8
142.5°	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2	1143.5	1143.7	1143.2
145°	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9	1204.1	1204.4	1203.9
147.5°	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0	1257.6	1258.3	1258.0
150°	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4
152.5°	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5
155°	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1	1368.6	1369.9	1370.3
157.5°	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5	1408.5	1410.5	1410.7
160°	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9	1431.7	1433.4	1433.7
162.5°	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2	1453.2	1455.1	1455.4
165°	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6	1480.6	1482.6	1482.9
167.5°	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2	1503.2	1505.2	1505.5
170°	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6	1515.6	1517.7	1517.8
172.5°	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9	1525.0	1527.0	1527.2
175°	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1	1535.1	1537.1	1537.3
177.5°	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331550-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A1

**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°	12.1	11.9	12.0	11.6	12.0	11.9	12.1	12.1	12.1	13.0	13.1
90°	43.3	43.6	43.8	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5
95°	82.2	81.6	81.0	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1
97.5°	139.6	139.5	139.5	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7
100°	178.7	178.4	178.1	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1
102.5°	222.3	222.1	221.7	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1
105°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7
107.5°	355.0	353.6	352.3	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4
110°	402.3	401.5	400.6	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7



TEST NUMBER: P331550-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	448.4	447.8	447.1	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1
115°	521.8	520.9	520.0	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8
117.5°	591.1	590.2	589.4	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2
120°	639.9	639.0	638.2	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2
122.5°	687.0	686.4	685.7	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7
125°	758.9	758.6	758.4	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5
127.5°	827.2	826.3	825.4	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2
130°	875.7	874.6	873.4	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9
132.5°	920.8	919.8	918.9	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3
135°	991.7	990.8	990.0	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7
137.5°	1057.0	1055.8	1054.6	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2
140°	1101.6	1100.4	1099.2	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3
142.5°	1142.1	1140.9	1139.8	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2
145°	1202.8	1201.7	1200.5	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9
147.5°	1256.9	1255.8	1254.7	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0
150°	1291.5	1290.6	1289.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6
152.5°	1325.4	1324.3	1323.3	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3
155°	1369.4	1368.6	1367.7	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1
157.5°	1409.4	1408.0	1406.6	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5
160°	1432.5	1431.4	1430.3	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9
162.5°	1454.1	1452.7	1451.3	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2
165°	1481.4	1480.1	1478.6	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6
167.5°	1504.0	1502.4	1501.0	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2
170°	1516.0	1514.3	1512.6	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6
172.5°	1525.4	1523.7	1522.0	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9
175°	1535.5	1533.8	1532.1	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1
177.5°	1539.2	1537.8	1536.4	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331550-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A1

**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°	13.2	13.7	12.7	11.8	10.6	9.6	9.0	8.7	8.7	8.4	8.0
90°	44.9	45.5	39.1	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3
92.5°	41.4	41.2	39.8	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1
95°	83.1	83.1	82.5	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5
97.5°	139.7	139.7	138.5	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3
100°	179.1	179.1	178.2	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9
102.5°	222.0	221.7	220.6	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4
105°	286.1	285.6	285.0	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1
107.5°	356.1	355.9	355.9	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2
110°	403.7	403.7	403.7	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9



TEST NUMBER: P331550-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.8	452.5	452.7	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7
115°	524.1	524.4	525.0	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2
117.5°	594.9	595.6	597.1	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5
120°	641.2	641.2	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2
122.5°	690.3	691.0	692.7	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9
125°	762.3	763.2	764.1	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4
127.5°	832.2	833.4	834.4	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2
130°	879.5	880.0	880.6	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7
132.5°	926.5	927.8	927.7	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5
135°	994.0	994.3	993.7	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4
137.5°	1059.5	1059.7	1058.9	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7
140°	1103.3	1103.3	1101.9	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1
142.5°	1143.0	1142.8	1141.8	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7
145°	1203.5	1203.2	1201.5	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4
147.5°	1256.4	1255.7	1254.6	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6
150°	1289.8	1288.9	1287.8	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9
152.5°	1323.3	1322.2	1320.8	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1
155°	1365.6	1364.2	1363.3	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4
157.5°	1404.5	1402.7	1402.1	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7
160°	1428.2	1426.5	1426.2	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6
162.5°	1449.2	1447.3	1447.0	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4
165°	1476.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8
167.5°	1499.2	1497.1	1497.2	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2
170°	1511.6	1509.6	1509.8	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8
172.5°	1521.0	1518.9	1519.2	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1
175°	1531.1	1529.0	1529.7	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5
177.5°	1536.4	1535.0	1535.5	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331550-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A1

**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°	9.7	11.9	12.6	14.3	14.6	15.8	17.1	18.0	18.9	18.4	18.0
90°	4.7	8.2	11.7	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3
92.5°	25.7	28.2	30.7	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5
95°	70.3	73.3	76.1	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1
97.5°	125.9	128.4	131.0	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7
100°	167.1	169.4	171.8	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1
102.5°	210.3	212.2	214.0	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1
105°	279.9	280.8	281.6	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7
107.5°	351.5	352.8	354.0	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4
110°	397.6	399.3	401.1	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.5	449.2	450.9	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1
115°	520.9	522.6	524.4	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8
117.5°	594.7	597.0	599.3	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2
120°	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2
122.5°	688.6	691.4	694.1	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7
125°	758.0	760.6	763.2	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5
127.5°	826.5	829.7	833.1	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2
130°	869.5	873.3	877.0	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9
132.5°	916.6	919.6	922.7	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3
135°	980.6	983.8	986.9	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7
137.5°	1047.2	1049.8	1052.4	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2
140°	1087.7	1090.4	1093.0	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3
142.5°	1129.3	1131.9	1134.5	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2
145°	1188.4	1190.4	1192.4	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9
147.5°	1242.0	1244.4	1246.9	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0
150°	1277.6	1279.4	1281.2	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6
152.5°	1309.8	1311.6	1313.3	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3
155°	1357.3	1358.1	1359.0	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1
157.5°	1398.3	1398.9	1399.5	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5
160°	1423.2	1423.7	1424.4	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9
162.5°	1445.6	1445.7	1445.8	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2
165°	1475.6	1475.2	1475.0	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6
167.5°	1500.4	1499.5	1498.7	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2
170°	1513.9	1513.0	1512.2	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6
172.5°	1523.3	1522.4	1521.6	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9
175°	1534.6	1533.8	1532.9	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1
177.5°	1539.6	1538.9	1538.2	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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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°	18.3	18.1	17.7	17.8	18.2	17.9	18.0
90°	43.7	43.1	43.0	43.3	43.6	43.8	44.2
92.5°	41.6	41.8	41.8	41.8	41.9	42.0	42.0
95°	83.1	83.1	82.7	82.2	81.6	81.0	80.5
97.5°	139.7	139.7	139.7	139.6	139.5	139.5	139.4
100°	179.1	179.1	179.0	178.7	178.4	178.1	177.8
102.5°	222.4	222.7	222.6	222.3	222.1	221.7	221.4
105°	287.3	287.8	288.2	288.2	288.2	288.2	288.2
107.5°	356.6	356.8	356.3	355.0	353.6	352.3	350.9
110°	403.7	403.7	403.2	402.3	401.5	400.6	399.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	450.4	449.7	449.0	448.4	447.8	447.1	446.5
115°	523.5	523.2	522.6	521.8	520.9	520.0	519.2
117.5°	593.5	592.8	591.9	591.1	590.2	589.4	588.5
120°	641.2	641.2	640.8	639.9	639.0	638.2	637.3
122.5°	689.0	688.3	687.6	687.0	686.4	685.7	685.1
125°	760.6	759.7	759.2	758.9	758.6	758.4	758.0
127.5°	830.2	829.1	828.2	827.2	826.3	825.4	824.5
130°	878.3	877.7	876.8	875.7	874.6	873.4	872.3
132.5°	924.0	922.7	921.6	920.8	919.8	918.9	917.9
135°	993.4	993.2	992.6	991.7	990.8	990.0	989.1
137.5°	1059.0	1058.8	1058.1	1057.0	1055.8	1054.6	1053.4
140°	1103.3	1103.3	1102.8	1101.6	1100.4	1099.2	1098.1
142.5°	1143.5	1143.7	1143.2	1142.1	1140.9	1139.8	1138.6
145°	1204.1	1204.4	1203.9	1202.8	1201.7	1200.5	1199.4
147.5°	1257.6	1258.3	1258.0	1256.9	1255.8	1254.7	1253.6
150°	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9
152.5°	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2
155°	1368.6	1369.9	1370.3	1369.4	1368.6	1367.7	1366.8
157.5°	1408.5	1410.5	1410.7	1409.4	1408.0	1406.6	1405.2
160°	1431.7	1433.4	1433.7	1432.5	1431.4	1430.3	1429.1
162.5°	1453.2	1455.1	1455.4	1454.1	1452.7	1451.3	1449.8
165°	1480.6	1482.6	1482.9	1481.4	1480.1	1478.6	1477.1
167.5°	1503.2	1505.2	1505.5	1504.0	1502.4	1501.0	1499.4
170°	1515.6	1517.7	1517.8	1516.0	1514.3	1512.6	1510.9
172.5°	1525.0	1527.0	1527.2	1525.4	1523.7	1522.0	1520.3
175°	1535.1	1537.1	1537.3	1535.5	1533.8	1532.1	1530.3
177.5°	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2

(END OF REPORT)