

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: P331543-840

Luminaire Tested: **S122DIW-S675D1240U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331543-840  
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-S675D1240U840-4F0-1E-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: 7966.6 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

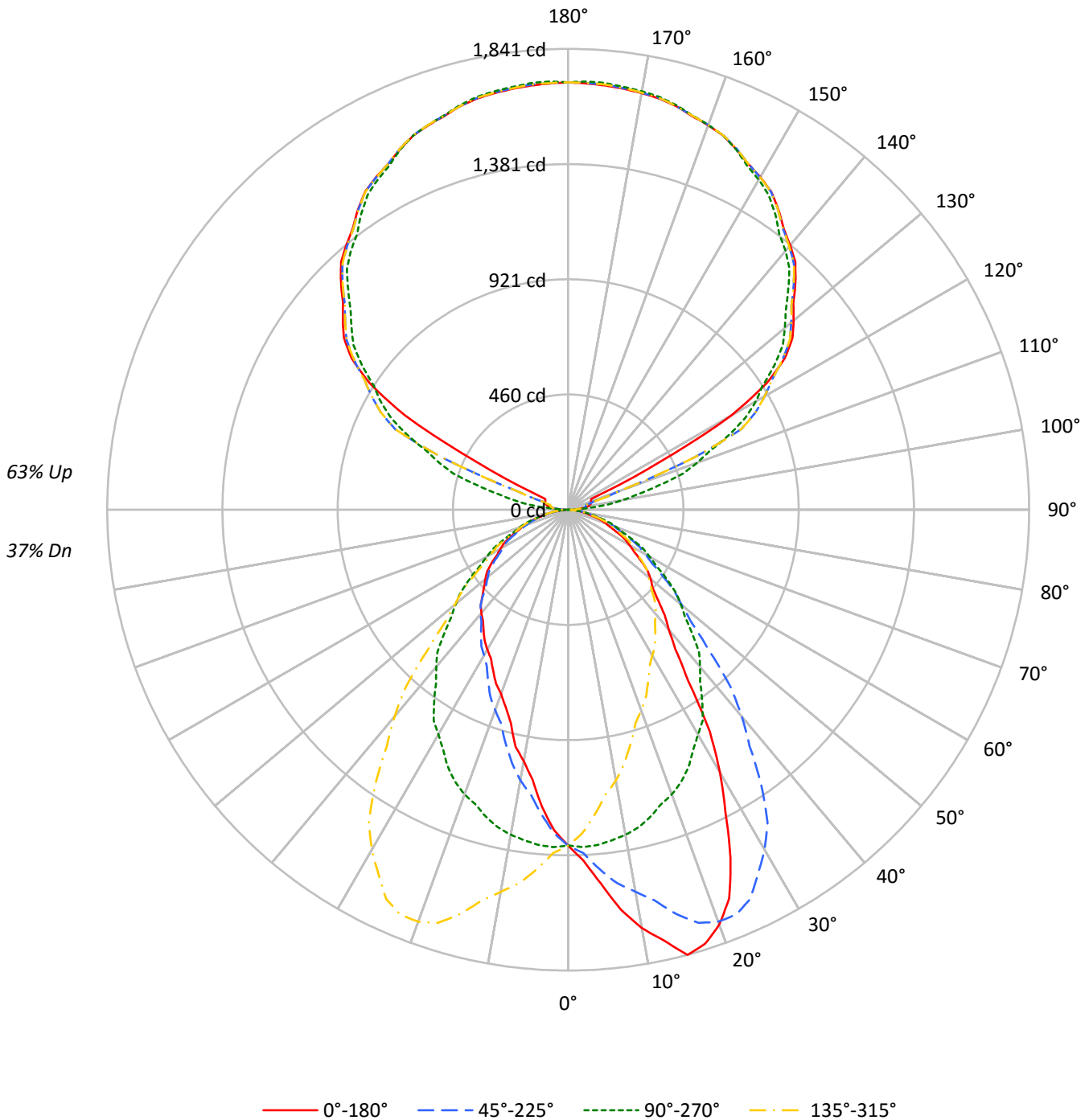
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20										
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°	21658	21658	21658	21658
5°	24280	21797	19316	21797
10°	27824	21620	16718	21620
15°	30780	21224	14770	21224
20°	30311	20797	13464	20797
25°	27332	20232	12636	20232
30°	22585	19328	12033	19328
35°	16462	18382	11606	18382
40°	13148	17266	11367	17266
45°	11488	15972	11040	15972
50°	10798	14722	10826	14722
55°	9956	13453	10536	13453
60°	9122	12103	10091	12103
65°	8309	10892	9650	10892
70°	7544	9711	9007	9711
75°	6687	8390	7973	8390
80°	5755	6946	6425	6946
85°	5169	5169	3816	5169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	1.6
10°-20°	371.4	4.7
20°-30°	539.0	6.8
30°-40°	568.8	7.1
40°-50°	503.6	6.3
50°-60°	401.9	5.0
60°-70°	273.2	3.4
70°-80°	140.0	1.8
80°-90°	38.0	0.5
90°-100°	56.9	0.7
100°-110°	208.8	2.6
110°-120°	558.2	7.0
120°-130°	921.5	11.6
130°-140°	980.0	12.3
140°-150°	910.9	11.4
150°-160°	732.3	9.2
160°-170°	471.9	5.9
170°-180°	162.4	2.0
0°-30°	1038.1	13.0
0°-40°	1606.9	20.2
0°-60°	2512.4	31.5
0°-90°	2963.6	37.2
90°-120°	824.0	10.3
90°-150°	3636.4	45.6
90°-180°	5003.0	62.8
0°-180°	7966.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1498	1345	1192	1345	1498	150
15°	1841	1270	884	1270	1841	508
25°	1534	1136	709	1136	1534	693
35°	835	933	589	933	835	543
45°	503	700	484	700	503	396
55°	354	478	374	478	354	317
65°	218	285	253	285	218	216
75°	107	134	128	134	107	115
85°	28	28	21	28	28	31
90°	33	1	33	1	33	16
95°	53	80	53	80	53	50
105°	94	376	94	376	94	98
115°	101	710	101	710	101	254
125°	1056	1004	1056	1004	1056	914
135°	1284	1243	1284	1243	1284	989
145°	1464	1442	1464	1442	1464	915
155°	1589	1587	1589	1587	1589	733
165°	1669	1673	1669	1673	1669	471
175°	1701	1711	1701	1711	1701	162
180°	1707	1707	1707	1707	1707	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1403.2	1403.6	1404.5	1397.9	1397.0	1397.0	1391.3	1386.3	1380.6	1372.7	1373.5
5°	1498.1	1503.8	1505.8	1499.6	1490.4	1489.3	1480.6	1466.1	1452.7	1441.9	1434.2
7.5°	1611.3	1613.6	1608.5	1600.3	1593.5	1581.1	1564.8	1548.8	1526.4	1505.9	1490.7
10°	1697.1	1700.2	1691.4	1679.6	1669.8	1655.4	1631.6	1607.4	1578.0	1549.6	1526.9
12.5°	1762.2	1769.9	1758.7	1757.1	1740.3	1720.5	1692.2	1680.0	1638.6	1599.1	1574.8
15°	1841.4	1840.9	1842.0	1832.2	1819.8	1816.6	1786.8	1754.3	1696.1	1672.8	1632.6
17.5°	1818.6	1826.3	1830.0	1829.9	1829.6	1827.7	1818.1	1797.6	1768.4	1730.7	1684.3
20°	1764.1	1774.4	1775.9	1787.9	1794.5	1803.3	1806.9	1801.2	1783.2	1751.7	1711.5
22.5°	1680.0	1682.8	1687.7	1706.2	1720.7	1742.6	1754.1	1773.2	1766.3	1750.9	1717.3
25°	1534.2	1529.0	1547.1	1556.3	1589.8	1624.9	1650.2	1678.0	1702.7	1717.7	1707.9
27.5°	1359.1	1351.4	1378.4	1403.0	1430.3	1468.2	1507.6	1554.1	1592.8	1641.1	1657.7
30°	1211.4	1216.1	1241.9	1268.2	1309.4	1363.0	1407.3	1458.4	1513.6	1567.7	1605.3
32.5°	1052.3	1070.2	1086.4	1126.7	1163.0	1222.8	1287.8	1351.6	1420.4	1481.9	1540.1
35°	835.2	855.8	878.5	907.9	958.9	1018.1	1081.6	1167.6	1261.5	1345.5	1414.6
37.5°	703.0	699.6	712.7	733.9	775.3	823.0	896.1	981.2	1091.6	1190.3	1287.8
40°	623.8	621.7	631.0	650.6	682.1	717.1	781.0	855.8	958.4	1078.9	1195.0
42.5°	569.4	570.6	575.7	589.6	611.1	640.0	687.8	751.4	845.4	959.0	1083.6
45°	503.1	506.8	512.4	519.2	531.5	555.2	582.0	627.4	701.7	796.5	919.2
47.5°	455.6	455.7	461.4	467.3	474.6	488.0	509.9	538.3	590.7	667.9	773.4
50°	429.9	426.4	430.5	435.0	442.8	452.1	466.6	493.3	528.4	590.8	678.9
52.5°	398.6	398.7	402.4	404.1	411.1	420.3	433.5	452.1	483.8	532.6	605.1
55°	353.7	356.2	358.3	361.3	367.6	374.3	384.6	397.0	421.7	458.3	511.9
57.5°	311.3	312.1	314.3	320.1	324.1	330.2	340.0	351.2	367.4	394.5	434.7
60°	282.5	282.5	286.6	289.2	294.4	300.5	308.3	319.1	333.6	355.7	388.2
62.5°	256.1	255.7	257.3	261.6	265.5	271.2	279.0	288.2	301.7	321.4	348.2
65°	217.5	216.5	219.6	220.7	224.8	230.5	236.6	246.4	257.2	271.7	295.4
67.5°	180.5	181.7	183.3	185.3	187.5	193.5	197.6	204.6	213.7	225.7	241.8
70°	159.8	159.8	159.8	161.4	164.4	167.5	171.7	177.3	186.1	196.4	210.9
72.5°	136.7	138.4	140.0	139.1	143.0	144.8	149.8	153.0	161.4	167.9	180.8
75°	107.2	107.2	107.2	109.8	111.4	112.9	116.0	119.1	123.2	131.5	138.1
77.5°	80.0	79.8	80.3	80.9	82.6	84.4	85.3	88.2	92.0	95.7	101.5
80°	61.9	62.9	63.4	64.4	64.4	65.4	65.9	69.6	72.2	74.7	78.4
82.5°	47.9	48.1	48.2	48.4	48.8	49.4	50.7	51.9	52.8	54.9	57.8
85°	27.9	27.4	27.4	28.4	27.9	27.9	28.9	29.9	29.9	30.4	31.9
87.5°	17.4	17.3	17.6	17.1	17.0	17.2	16.9	16.3	16.4	16.5	16.5
90°	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5	26.1	24.7	22.5
92.5°	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1	29.4	28.7	27.6
95°	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9	49.6	48.2	46.3
97.5°	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7	65.5	64.5	60.1
100°	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8	72.6	70.4	65.7
102.5°	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1	75.2	72.4	111.4
105°	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4	78.4	75.3	150.3
107.5°	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4	102.4	105.5	195.4
110°	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3	188.7	216.2	295.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0	445.1	545.2	564.9
115°	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0	635.1	762.2	755.4
117.5°	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7	813.4	844.2	839.5
120°	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1	908.8	905.4	900.6
122.5°	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8	965.7	963.8	958.5
125°	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7	1045.8	1043.9	1038.6
127.5°	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6	1118.8	1116.0	1112.1
130°	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5	1165.5	1162.5	1159.4
132.5°	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1	1211.4	1208.9	1205.9
135°	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1	1276.4	1273.6	1271.1
137.5°	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5	1336.9	1334.1	1331.3
140°	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7	1376.1	1373.7	1370.7
142.5°	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7	1412.5	1410.3	1406.7
145°	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2	1463.3	1461.4	1456.7
147.5°	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2	1507.8	1506.3	1501.8
150°	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3	1534.7	1533.1	1528.6
152.5°	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0	1559.4	1557.7	1553.6
155°	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4	1592.8	1591.1	1587.8
157.5°	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6	1620.6	1618.8	1616.5
160°	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9	1637.2	1635.6	1634.0
162.5°	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2	1652.2	1650.4	1649.0
165°	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9	1668.1
167.5°	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3	1686.4	1684.5	1683.7
170°	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3	1694.4	1692.4	1691.8
172.5°	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1	1700.2	1698.3	1697.8
175°	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6	1706.7	1704.8	1704.2
177.5°	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3	1707.8	1706.3	1706.0
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1376.4	1373.1	1371.1	1363.6	1357.1	1350.5	1348.4	1349.2	1340.2	1331.5	1327.8
5°	1430.1	1419.8	1410.0	1396.0	1379.6	1361.5	1352.2	1344.9	1327.0	1307.4	1296.1
7.5°	1478.1	1463.4	1444.5	1418.3	1394.3	1365.9	1347.9	1331.9	1305.5	1277.9	1260.9
10°	1507.4	1487.2	1463.0	1431.1	1401.7	1367.2	1342.9	1318.7	1287.8	1254.8	1234.2
12.5°	1532.6	1505.4	1481.6	1440.6	1405.8	1362.6	1333.8	1299.7	1267.2	1228.0	1207.8
15°	1592.5	1542.5	1497.0	1450.7	1407.9	1347.6	1315.7	1269.7	1226.9	1178.5	1155.3
17.5°	1638.7	1582.6	1511.1	1452.1	1402.2	1335.4	1288.5	1233.6	1183.0	1127.5	1096.0
20°	1665.2	1600.6	1523.9	1453.8	1393.9	1317.7	1266.7	1210.4	1151.1	1088.7	1054.7
22.5°	1680.8	1613.1	1537.1	1447.5	1377.5	1303.2	1239.0	1177.4	1117.3	1050.1	1014.3
25°	1685.8	1623.9	1543.5	1442.4	1356.9	1272.8	1195.5	1135.7	1063.0	1000.1	948.1
27.5°	1661.2	1616.9	1539.5	1432.7	1333.0	1234.8	1148.6	1080.9	1004.1	935.8	883.5
30°	1631.1	1605.3	1530.0	1422.8	1314.0	1208.4	1113.5	1036.7	960.4	891.3	837.7
32.5°	1584.5	1578.9	1512.8	1408.8	1293.8	1175.0	1076.8	999.2	914.6	846.8	795.7
35°	1493.0	1517.7	1475.9	1377.5	1255.8	1127.4	1021.3	932.6	845.0	780.0	732.1
37.5°	1370.3	1431.7	1420.8	1331.6	1204.5	1075.7	958.5	865.8	782.2	716.7	669.6
40°	1285.7	1364.0	1375.4	1296.6	1168.2	1035.7	911.4	819.2	737.7	677.9	630.5
42.5°	1195.0	1286.6	1317.7	1254.5	1128.5	993.6	869.4	773.8	693.2	635.0	593.0
45°	1042.9	1164.1	1220.2	1184.2	1062.5	924.3	796.5	699.5	626.3	571.7	539.3
47.5°	900.7	1033.1	1108.6	1095.9	989.0	852.1	725.8	632.8	561.5	517.9	488.8
50°	800.1	936.1	1027.4	1031.6	936.1	800.6	673.8	586.1	520.7	480.0	456.3
52.5°	712.7	842.5	942.1	963.9	877.2	747.0	627.2	540.0	482.3	444.8	423.6
55°	598.5	708.3	818.6	858.9	789.2	665.5	554.7	477.9	423.7	398.0	379.4
57.5°	497.6	589.2	691.1	735.5	692.6	586.6	482.7	416.1	372.1	349.5	335.3
60°	444.3	516.5	607.2	660.4	623.3	529.0	438.2	374.8	338.7	318.6	305.2
62.5°	394.9	458.8	535.5	584.1	563.9	474.9	393.6	337.7	306.5	287.6	278.0
65°	325.8	376.4	435.7	480.5	467.1	399.5	333.1	285.1	260.3	245.4	237.6
67.5°	268.3	304.8	345.9	385.2	374.4	326.5	273.2	235.8	217.3	204.5	199.9
70°	232.0	259.8	296.4	327.9	319.1	279.9	237.6	205.7	189.8	178.8	174.2
72.5°	197.3	220.3	248.1	273.9	267.9	235.4	200.2	176.0	163.7	153.7	149.9
75°	149.0	166.5	183.5	200.6	198.9	173.7	153.1	134.5	124.7	117.0	115.4
77.5°	110.0	119.8	131.4	141.5	138.7	124.2	108.1	97.5	90.2	85.0	84.2
80°	84.0	89.7	98.0	105.1	101.6	95.3	82.5	74.7	69.6	64.4	62.4
82.5°	60.9	66.7	71.6	75.4	72.7	67.0	59.0	53.7	50.6	47.2	46.3
85°	31.9	35.0	37.2	38.2	37.2	33.5	29.9	27.9	25.2	23.7	23.2
87.5°	16.5	16.0	15.6	15.9	14.0	13.4	11.2	9.3	9.5	9.7	9.5
90°	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2	4.2	7.3	10.3
92.5°	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9	24.6	24.4	24.1
95°	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3	71.2	62.2	53.1
97.5°	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4	133.8	108.3	82.8
100°	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6	181.1	143.4	105.8
102.5°	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9	275.9	267.9	260.0
105°	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6	383.7	392.0	400.2
107.5°	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1	486.7	493.3	500.0
110°	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2	553.0	558.8	564.5





TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5	615.6	620.7	625.8
115°	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3	715.0	719.6	724.3
117.5°	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5	804.8	809.9	815.2
120°	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7	868.9	872.9	877.1
122.5°	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1	924.4	928.8	933.1
125°	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3	1007.8	1011.5	1015.0
127.5°	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7	1084.6	1088.5	1092.6
130°	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1	1133.5	1137.9	1142.3
132.5°	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5	1182.2	1186.0	1189.7
135°	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7	1247.1	1251.5	1255.9
137.5°	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7	1310.8	1313.8	1317.0
140°	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2	1352.4	1354.6	1356.8
142.5°	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8	1387.8	1389.8	1391.7
145°	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6	1441.4	1441.1	1440.8
147.5°	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3	1489.2	1488.2	1487.1
150°	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0	1520.0	1518.1	1516.1
152.5°	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6	1546.5	1544.3	1542.2
155°	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4	1584.9	1582.5	1579.9
157.5°	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8	1615.7	1613.6	1611.5
160°	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1634.0	1632.2	1630.6
162.5°	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4	1649.7	1648.1	1646.5
165°	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6	1671.0	1669.3	1667.7
167.5°	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5	1686.8	1685.2	1683.5
170°	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4	1695.7	1694.0	1692.4
172.5°	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2	1701.6	1700.0	1698.3
175°	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9	1709.0	1707.1	1705.2
177.5°	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1	1710.6	1709.1	1707.6
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1323.6	1321.2	1312.5	1308.0	1300.5	1293.5	1289.0	1291.1	1292.7	1291.9	1290.6
5°	1285.7	1275.9	1260.9	1248.1	1238.8	1221.7	1214.6	1210.9	1207.9	1204.3	1200.6
7.5°	1240.5	1225.1	1203.7	1185.3	1167.9	1146.8	1134.8	1127.5	1120.1	1112.0	1104.8
10°	1208.4	1186.7	1164.1	1138.2	1117.6	1098.5	1081.6	1070.3	1060.0	1050.2	1042.9
12.5°	1174.6	1149.6	1121.6	1086.3	1063.6	1036.3	1033.7	1013.7	997.6	991.6	983.1
15°	1120.7	1085.7	1050.2	1008.4	990.3	965.5	950.1	934.6	920.7	910.9	908.4
17.5°	1059.6	1014.2	978.9	948.9	919.3	893.9	879.7	867.3	855.9	842.7	841.0
20°	1013.0	973.8	935.1	908.9	878.5	852.6	835.2	822.7	812.9	805.3	798.5
22.5°	968.9	925.9	890.6	861.8	831.8	811.0	797.2	785.3	777.1	768.5	762.2
25°	898.1	864.5	825.9	793.3	768.6	755.3	743.9	733.6	728.4	722.8	715.6
27.5°	836.1	798.8	762.7	737.5	715.8	703.9	695.8	688.8	684.0	680.6	676.6
30°	792.3	754.7	726.4	701.7	683.6	671.8	666.6	662.5	656.8	654.7	652.7
32.5°	750.3	716.4	692.2	670.7	653.5	645.7	641.0	637.3	632.9	630.8	626.6
35°	690.7	662.5	638.7	626.8	613.0	606.2	602.7	597.4	593.4	591.3	590.8
37.5°	634.8	610.2	594.6	579.4	573.5	569.4	564.4	560.9	559.7	559.4	558.9
40°	598.5	578.5	564.5	552.1	549.6	543.3	539.3	536.1	536.1	536.6	536.1
42.5°	565.5	547.4	535.2	524.5	521.5	517.8	513.6	513.4	514.3	516.0	514.3
45°	515.5	502.6	493.8	488.7	483.0	479.4	478.9	480.5	481.0	481.5	483.0
47.5°	469.5	461.0	453.0	447.4	444.8	444.2	443.6	446.4	448.8	449.7	452.1
50°	442.3	432.5	425.9	422.2	420.1	419.1	420.1	423.2	425.3	427.9	429.4
52.5°	411.8	404.9	400.2	397.5	396.7	397.3	397.5	401.0	404.2	405.2	406.0
55°	369.6	364.5	363.5	358.8	360.8	360.3	362.9	365.0	368.1	371.1	371.7
57.5°	327.6	323.5	320.6	321.0	321.6	324.0	326.1	329.7	333.1	336.3	336.6
60°	299.5	297.4	295.9	295.9	296.9	300.0	302.7	306.2	308.3	310.3	311.8
62.5°	274.0	271.9	270.3	271.1	273.9	275.7	278.7	280.6	282.7	284.8	285.5
65°	233.5	232.5	234.1	235.1	235.6	238.1	241.8	243.3	245.4	246.4	250.0
67.5°	196.3	196.5	196.3	197.7	200.8	201.4	204.8	208.3	208.7	210.8	213.1
70°	171.2	172.2	173.2	174.2	176.8	177.8	180.5	182.0	184.0	185.6	187.1
72.5°	148.0	148.2	149.3	149.1	151.3	153.5	155.7	157.2	159.3	161.3	162.8
75°	113.9	113.9	114.9	115.4	118.1	120.7	120.1	121.2	123.2	125.2	126.3
77.5°	83.2	82.1	83.2	83.7	84.5	86.7	87.2	88.6	90.9	90.2	91.4
80°	63.4	61.9	63.4	63.9	63.9	66.6	66.6	67.6	69.1	67.6	69.1
82.5°	45.2	44.5	45.6	45.7	46.6	46.7	47.6	47.8	49.3	48.6	49.3
85°	22.7	22.2	22.7	22.2	22.7	23.2	23.2	22.7	22.7	23.7	22.2
87.5°	9.7	9.8	9.8	10.2	10.3	10.3	10.2	10.4	10.7	10.2	10.4
90°	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5	28.8	30.2	31.2
92.5°	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1	30.8	31.5	32.0
95°	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9	52.3	53.6	54.2
97.5°	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7	67.8	68.9	69.6
100°	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8	77.0	79.2	80.6
102.5°	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1	81.0	83.8	85.6
105°	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4	84.4	87.5	89.5
107.5°	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4	96.2	93.2	92.2
110°	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3	133.8	106.3	93.2



TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0	244.9	144.7	95.0
115°	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0	380.9	253.8	180.4
117.5°	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7	751.9	721.2	673.4
120°	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1	915.3	918.7	901.8
122.5°	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8	969.8	971.7	969.1
125°	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7	1049.7	1051.6	1052.9
127.5°	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6	1124.4	1127.2	1128.7
130°	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5	1171.5	1174.5	1175.9
132.5°	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1	1216.6	1219.2	1220.3
135°	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1	1281.8	1284.6	1285.7
137.5°	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5	1342.2	1344.9	1345.7
140°	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7	1381.1	1383.6	1384.1
142.5°	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7	1417.0	1419.3	1419.7
145°	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2	1467.1	1469.1	1469.4
147.5°	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2	1510.7	1512.1	1512.2
150°	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3	1538.0	1539.6	1539.7
152.5°	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0	1562.7	1564.4	1564.3
155°	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4	1596.1	1597.7	1597.4
157.5°	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6	1624.4	1626.3	1626.1
160°	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9	1640.5	1642.1	1642.0
162.5°	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2	1656.0	1657.9	1657.6
165°	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6
167.5°	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3	1690.2	1692.1	1691.9
170°	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3	1698.2	1700.1	1699.8
172.5°	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1	1704.0	1706.0	1705.8
175°	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6	1710.5	1712.4	1712.0
177.5°	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3	1710.8	1712.4	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1286.6	1285.7	1285.7	1282.0	1285.7	1285.7	1286.6	1290.6	1291.9	1292.7	1291.1
5°	1193.5	1191.8	1189.3	1191.8	1189.3	1191.8	1193.5	1200.6	1204.3	1207.9	1210.9
7.5°	1101.4	1095.2	1094.3	1088.1	1094.3	1095.2	1101.4	1104.8	1112.0	1120.1	1127.5
10°	1034.1	1030.0	1029.5	1019.7	1029.5	1030.0	1034.1	1042.9	1050.2	1060.0	1070.3
12.5°	983.0	973.1	975.0	969.4	975.0	973.1	983.0	983.1	991.6	997.6	1013.7
15°	894.4	894.4	892.3	883.6	892.3	894.4	894.4	908.4	910.9	920.7	934.6
17.5°	830.8	829.8	824.9	827.3	824.9	829.8	830.8	841.0	842.7	855.9	867.3
20°	792.8	789.8	783.6	783.6	783.6	789.8	792.8	798.5	805.3	812.9	822.7
22.5°	757.0	756.8	750.2	752.2	750.2	756.8	757.0	762.2	768.5	777.1	785.3
25°	715.0	710.9	707.8	709.3	707.8	710.9	715.0	715.6	722.8	728.4	733.6
27.5°	675.2	673.0	672.8	668.5	672.8	673.0	675.2	676.6	680.6	684.0	688.8
30°	652.2	647.0	648.0	645.4	648.0	647.0	652.2	652.7	654.7	656.8	662.5
32.5°	625.7	623.9	622.9	620.7	622.9	623.9	625.7	626.6	630.8	632.9	637.3
35°	589.8	590.3	587.7	588.8	587.7	590.3	589.8	590.8	591.3	593.4	597.4
37.5°	558.4	560.0	558.8	559.1	558.8	560.0	558.4	558.9	559.4	559.7	560.9
40°	537.7	537.7	537.7	539.3	537.7	537.7	537.7	536.1	536.6	536.1	536.1
42.5°	517.9	517.1	516.2	516.1	516.2	517.1	517.9	514.3	516.0	514.3	513.4
45°	484.0	485.6	486.1	483.5	486.1	485.6	484.0	483.0	481.5	481.0	480.5
47.5°	453.4	453.6	453.4	455.8	453.4	453.6	453.4	452.1	449.7	448.8	446.4
50°	432.0	431.0	432.0	431.0	432.0	431.0	432.0	429.4	427.9	425.3	423.2
52.5°	409.3	409.5	408.9	408.7	408.9	409.5	409.3	406.0	405.2	404.2	401.0
55°	373.8	374.8	374.3	374.3	374.3	374.8	373.8	371.7	371.1	368.1	365.0
57.5°	337.0	337.9	338.6	336.3	338.6	337.9	337.0	336.6	336.3	333.1	329.7
60°	311.3	314.0	313.5	312.5	313.5	314.0	311.3	311.8	310.3	308.3	306.2
62.5°	287.9	288.8	288.7	288.5	288.7	288.8	287.9	285.5	284.8	282.7	280.6
65°	251.6	252.6	251.1	252.6	251.1	252.6	251.6	250.0	246.4	245.4	243.3
67.5°	212.5	212.8	214.0	214.7	214.0	212.8	212.5	213.1	210.8	208.7	208.3
70°	188.1	187.6	189.1	190.8	189.1	187.6	188.1	187.1	185.6	184.0	182.0
72.5°	162.6	163.7	163.2	164.3	163.2	163.7	162.6	162.8	161.3	159.3	157.2
75°	125.2	126.8	126.3	127.8	126.3	126.8	125.2	126.3	125.2	123.2	121.2
77.5°	90.5	90.7	90.5	91.4	90.5	90.7	90.5	91.4	90.2	90.9	88.6
80°	69.1	68.1	67.1	69.1	67.1	68.1	69.1	69.1	67.6	69.1	67.6
82.5°	48.1	48.7	47.7	47.7	47.7	48.7	48.1	49.3	48.6	49.3	47.8
85°	22.2	21.6	20.6	20.6	20.6	21.6	22.2	22.2	23.7	22.7	22.7
87.5°	10.5	10.2	10.3	10.0	10.3	10.2	10.5	10.4	10.2	10.7	10.4
90°	31.7	32.2	32.8	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5
92.5°	32.3	32.7	33.0	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1
95°	53.9	53.6	53.4	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9
97.5°	69.9	70.3	70.6	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7
100°	81.1	81.7	82.2	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8
102.5°	86.3	87.2	88.0	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1
105°	90.6	91.7	92.8	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4
107.5°	93.3	94.4	95.5	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4
110°	94.3	95.4	96.5	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3



TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.9	96.8	97.7	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0
115°	160.6	140.9	121.1	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0
117.5°	608.4	543.5	478.6	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7
120°	864.7	827.7	790.6	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1
122.5°	961.9	954.7	947.6	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8
125°	1053.7	1054.6	1055.4	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7
127.5°	1128.8	1129.0	1129.1	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6
130°	1175.6	1175.4	1175.1	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5
132.5°	1220.1	1219.8	1219.5	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1
135°	1285.2	1284.6	1284.0	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1
137.5°	1344.8	1343.9	1343.0	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5
140°	1382.7	1381.4	1380.0	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7
142.5°	1418.4	1416.9	1415.5	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7
145°	1467.9	1466.6	1465.2	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2
147.5°	1511.1	1509.8	1508.7	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2
150°	1538.4	1537.0	1535.6	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3
152.5°	1562.5	1560.6	1558.8	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0
155°	1595.2	1593.1	1590.8	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4
157.5°	1624.0	1621.8	1619.7	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6
160°	1640.1	1638.2	1636.3	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9
162.5°	1655.3	1652.8	1650.5	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2
165°	1674.7	1672.7	1670.8	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7
167.5°	1689.4	1687.0	1684.5	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3
170°	1697.4	1694.9	1692.4	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3
172.5°	1703.2	1700.8	1698.3	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1
175°	1709.3	1706.6	1703.7	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6
177.5°	1710.2	1708.2	1706.3	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1289.0	1293.5	1300.5	1308.0	1312.5	1321.2	1323.6	1327.8	1331.5	1340.2	1349.2
5°	1214.6	1221.7	1238.8	1248.1	1260.9	1275.9	1285.7	1296.1	1307.4	1327.0	1344.9
7.5°	1134.8	1146.8	1167.9	1185.3	1203.7	1225.1	1240.5	1260.9	1277.9	1305.5	1331.9
10°	1081.6	1098.5	1117.6	1138.2	1164.1	1186.7	1208.4	1234.2	1254.8	1287.8	1318.7
12.5°	1033.7	1036.3	1063.6	1086.3	1121.6	1149.6	1174.6	1207.8	1228.0	1267.2	1299.7
15°	950.1	965.5	990.3	1008.4	1050.2	1085.7	1120.7	1155.3	1178.5	1226.9	1269.7
17.5°	879.7	893.9	919.3	948.9	978.9	1014.2	1059.6	1096.0	1127.5	1183.0	1233.6
20°	835.2	852.6	878.5	908.9	935.1	973.8	1013.0	1054.7	1088.7	1151.1	1210.4
22.5°	797.2	811.0	831.8	861.8	890.6	925.9	968.9	1014.3	1050.1	1117.3	1177.4
25°	743.9	755.3	768.6	793.3	825.9	864.5	898.1	948.1	1000.1	1063.0	1135.7
27.5°	695.8	703.9	715.8	737.5	762.7	798.8	836.1	883.5	935.8	1004.1	1080.9
30°	666.6	671.8	683.6	701.7	726.4	754.7	792.3	837.7	891.3	960.4	1036.7
32.5°	641.0	645.7	653.5	670.7	692.2	716.4	750.3	795.7	846.8	914.6	999.2
35°	602.7	606.2	613.0	626.8	638.7	662.5	690.7	732.1	780.0	845.0	932.6
37.5°	564.4	569.4	573.5	579.4	594.6	610.2	634.8	669.6	716.7	782.2	865.8
40°	539.3	543.3	549.6	552.1	564.5	578.5	598.5	630.5	677.9	737.7	819.2
42.5°	513.6	517.8	521.5	524.5	535.2	547.4	565.5	593.0	635.0	693.2	773.8
45°	478.9	479.4	483.0	488.7	493.8	502.6	515.5	539.3	571.7	626.3	699.5
47.5°	443.6	444.2	444.8	447.4	453.0	461.0	469.5	488.8	517.9	561.5	632.8
50°	420.1	419.1	420.1	422.2	425.9	432.5	442.3	456.3	480.0	520.7	586.1
52.5°	397.5	397.3	396.7	397.5	400.2	404.9	411.8	423.6	444.8	482.3	540.0
55°	362.9	360.3	360.8	358.8	363.5	364.5	369.6	379.4	398.0	423.7	477.9
57.5°	326.1	324.0	321.6	321.0	320.6	323.5	327.6	335.3	349.5	372.1	416.1
60°	302.7	300.0	296.9	295.9	295.9	297.4	299.5	305.2	318.6	338.7	374.8
62.5°	278.7	275.7	273.9	271.1	270.3	271.9	274.0	278.0	287.6	306.5	337.7
65°	241.8	238.1	235.6	235.1	234.1	232.5	233.5	237.6	245.4	260.3	285.1
67.5°	204.8	201.4	200.8	197.7	196.3	196.5	196.3	199.9	204.5	217.3	235.8
70°	180.5	177.8	176.8	174.2	173.2	172.2	171.2	174.2	178.8	189.8	205.7
72.5°	155.7	153.5	151.3	149.1	149.3	148.2	148.0	149.9	153.7	163.7	176.0
75°	120.1	120.7	118.1	115.4	114.9	113.9	113.9	115.4	117.0	124.7	134.5
77.5°	87.2	86.7	84.5	83.7	83.2	82.1	83.2	84.2	85.0	90.2	97.5
80°	66.6	66.6	63.9	63.9	63.4	61.9	63.4	62.4	64.4	69.6	74.7
82.5°	47.6	46.7	46.6	45.7	45.6	44.5	45.2	46.3	47.2	50.6	53.7
85°	23.2	23.2	22.7	22.2	22.7	22.2	22.7	23.2	23.7	25.2	27.9
87.5°	10.2	10.3	10.3	10.2	9.8	9.8	9.7	9.5	9.7	9.5	9.3
90°	26.1	24.7	22.5	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2
92.5°	29.4	28.7	27.6	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9
95°	49.6	48.2	46.3	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3
97.5°	65.5	64.5	60.1	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4
100°	72.6	70.4	65.7	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6
102.5°	75.2	72.4	111.4	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9
105°	78.4	75.3	150.3	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6
107.5°	102.4	105.5	195.4	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1
110°	188.7	216.2	295.5	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2



TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	445.1	545.2	564.9	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5
115°	635.1	762.2	755.4	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3
117.5°	813.4	844.2	839.5	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5
120°	908.8	905.4	900.6	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7
122.5°	965.7	963.8	958.5	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1
125°	1045.8	1043.9	1038.6	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3
127.5°	1118.8	1116.0	1112.1	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7
130°	1165.5	1162.5	1159.4	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1
132.5°	1211.4	1208.9	1205.9	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5
135°	1276.4	1273.6	1271.1	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7
137.5°	1336.9	1334.1	1331.3	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7
140°	1376.1	1373.7	1370.7	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2
142.5°	1412.5	1410.3	1406.7	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8
145°	1463.3	1461.4	1456.7	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6
147.5°	1507.8	1506.3	1501.8	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3
150°	1534.7	1533.1	1528.6	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0
152.5°	1559.4	1557.7	1553.6	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6
155°	1592.8	1591.1	1587.8	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4
157.5°	1620.6	1618.8	1616.5	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8
160°	1637.2	1635.6	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6
162.5°	1652.2	1650.4	1649.0	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4
165°	1670.8	1668.9	1668.1	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6
167.5°	1686.4	1684.5	1683.7	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5
170°	1694.4	1692.4	1691.8	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4
172.5°	1700.2	1698.3	1697.8	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2
175°	1706.7	1704.8	1704.2	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9
177.5°	1707.8	1706.3	1706.0	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331543-840

CATALOG NUMBER: S122DIW-S675D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1348.4	1350.5	1357.1	1363.6	1371.1	1373.1	1376.4	1373.5	1372.7	1380.6	1386.3
5°	1352.2	1361.5	1379.6	1396.0	1410.0	1419.8	1430.1	1434.2	1441.9	1452.7	1466.1
7.5°	1347.9	1365.9	1394.3	1418.3	1444.5	1463.4	1478.1	1490.7	1505.9	1526.4	1548.8
10°	1342.9	1367.2	1401.7	1431.1	1463.0	1487.2	1507.4	1526.9	1549.6	1578.0	1607.4
12.5°	1333.8	1362.6	1405.8	1440.6	1481.6	1505.4	1532.6	1574.8	1599.1	1638.6	1680.0
15°	1315.7	1347.6	1407.9	1450.7	1497.0	1542.5	1592.5	1632.6	1672.8	1696.1	1754.3
17.5°	1288.5	1335.4	1402.2	1452.1	1511.1	1582.6	1638.7	1684.3	1730.7	1768.4	1797.6
20°	1266.7	1317.7	1393.9	1453.8	1523.9	1600.6	1665.2	1711.5	1751.7	1783.2	1801.2
22.5°	1239.0	1303.2	1377.5	1447.5	1537.1	1613.1	1680.8	1717.3	1750.9	1766.3	1773.2
25°	1195.5	1272.8	1356.9	1442.4	1543.5	1623.9	1685.8	1707.9	1717.7	1702.7	1678.0
27.5°	1148.6	1234.8	1333.0	1432.7	1539.5	1616.9	1661.2	1657.7	1641.1	1592.8	1554.1
30°	1113.5	1208.4	1314.0	1422.8	1530.0	1605.3	1631.1	1605.3	1567.7	1513.6	1458.4
32.5°	1076.8	1175.0	1293.8	1408.8	1512.8	1578.9	1584.5	1540.1	1481.9	1420.4	1351.6
35°	1021.3	1127.4	1255.8	1377.5	1475.9	1517.7	1493.0	1414.6	1345.5	1261.5	1167.6
37.5°	958.5	1075.7	1204.5	1331.6	1420.8	1431.7	1370.3	1287.8	1190.3	1091.6	981.2
40°	911.4	1035.7	1168.2	1296.6	1375.4	1364.0	1285.7	1195.0	1078.9	958.4	855.8
42.5°	869.4	993.6	1128.5	1254.5	1317.7	1286.6	1195.0	1083.6	959.0	845.4	751.4
45°	796.5	924.3	1062.5	1184.2	1220.2	1164.1	1042.9	919.2	796.5	701.7	627.4
47.5°	725.8	852.1	989.0	1095.9	1108.6	1033.1	900.7	773.4	667.9	590.7	538.3
50°	673.8	800.6	936.1	1031.6	1027.4	936.1	800.1	678.9	590.8	528.4	493.3
52.5°	627.2	747.0	877.2	963.9	942.1	842.5	712.7	605.1	532.6	483.8	452.1
55°	554.7	665.5	789.2	858.9	818.6	708.3	598.5	511.9	458.3	421.7	397.0
57.5°	482.7	586.6	692.6	735.5	691.1	589.2	497.6	434.7	394.5	367.4	351.2
60°	438.2	529.0	623.3	660.4	607.2	516.5	444.3	388.2	355.7	333.6	319.1
62.5°	393.6	474.9	563.9	584.1	535.5	458.8	394.9	348.2	321.4	301.7	288.2
65°	333.1	399.5	467.1	480.5	435.7	376.4	325.8	295.4	271.7	257.2	246.4
67.5°	273.2	326.5	374.4	385.2	345.9	304.8	268.3	241.8	225.7	213.7	204.6
70°	237.6	279.9	319.1	327.9	296.4	259.8	232.0	210.9	196.4	186.1	177.3
72.5°	200.2	235.4	267.9	273.9	248.1	220.3	197.3	180.8	167.9	161.4	153.0
75°	153.1	173.7	198.9	200.6	183.5	166.5	149.0	138.1	131.5	123.2	119.1
77.5°	108.1	124.2	138.7	141.5	131.4	119.8	110.0	101.5	95.7	92.0	88.2
80°	82.5	95.3	101.6	105.1	98.0	89.7	84.0	78.4	74.7	72.2	69.6
82.5°	59.0	67.0	72.7	75.4	71.6	66.7	60.9	57.8	54.9	52.8	51.9
85°	29.9	33.5	37.2	38.2	37.2	35.0	31.9	31.9	30.4	29.9	29.9
87.5°	11.2	13.4	14.0	15.9	15.6	16.0	16.5	16.5	16.5	16.4	16.3
90°	4.2	7.3	10.3	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5
92.5°	24.6	24.4	24.1	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1
95°	71.2	62.2	53.1	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9
97.5°	133.8	108.3	82.8	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7
100°	181.1	143.4	105.8	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8
102.5°	275.9	267.9	260.0	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1
105°	383.7	392.0	400.2	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4
107.5°	486.7	493.3	500.0	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4
110°	553.0	558.8	564.5	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	615.6	620.7	625.8	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0
115°	715.0	719.6	724.3	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0
117.5°	804.8	809.9	815.2	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7
120°	868.9	872.9	877.1	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1
122.5°	924.4	928.8	933.1	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8
125°	1007.8	1011.5	1015.0	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7
127.5°	1084.6	1088.5	1092.6	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6
130°	1133.5	1137.9	1142.3	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5
132.5°	1182.2	1186.0	1189.7	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1
135°	1247.1	1251.5	1255.9	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1
137.5°	1310.8	1313.8	1317.0	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5
140°	1352.4	1354.6	1356.8	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7
142.5°	1387.8	1389.8	1391.7	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7
145°	1441.4	1441.1	1440.8	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2
147.5°	1489.2	1488.2	1487.1	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2
150°	1520.0	1518.1	1516.1	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3
152.5°	1546.5	1544.3	1542.2	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0
155°	1584.9	1582.5	1579.9	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4
157.5°	1615.7	1613.6	1611.5	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6
160°	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9
162.5°	1649.7	1648.1	1646.5	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2
165°	1671.0	1669.3	1667.7	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7
167.5°	1686.8	1685.2	1683.5	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3
170°	1695.7	1694.0	1692.4	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3
172.5°	1701.6	1700.0	1698.3	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1
175°	1709.0	1707.1	1705.2	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6
177.5°	1710.6	1709.1	1707.6	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1391.3	1397.0	1397.0	1397.9	1404.5	1403.6	1403.2
5°	1480.6	1489.3	1490.4	1499.6	1505.8	1503.8	1498.1
7.5°	1564.8	1581.1	1593.5	1600.3	1608.5	1613.6	1611.3
10°	1631.6	1655.4	1669.8	1679.6	1691.4	1700.2	1697.1
12.5°	1692.2	1720.5	1740.3	1757.1	1758.7	1769.9	1762.2
15°	1786.8	1816.6	1819.8	1832.2	1842.0	1840.9	1841.4
17.5°	1818.1	1827.7	1829.6	1829.9	1830.0	1826.3	1818.6
20°	1806.9	1803.3	1794.5	1787.9	1775.9	1774.4	1764.1
22.5°	1754.1	1742.6	1720.7	1706.2	1687.7	1682.8	1680.0
25°	1650.2	1624.9	1589.8	1556.3	1547.1	1529.0	1534.2
27.5°	1507.6	1468.2	1430.3	1403.0	1378.4	1351.4	1359.1
30°	1407.3	1363.0	1309.4	1268.2	1241.9	1216.1	1211.4
32.5°	1287.8	1222.8	1163.0	1126.7	1086.4	1070.2	1052.3
35°	1081.6	1018.1	958.9	907.9	878.5	855.8	835.2
37.5°	896.1	823.0	775.3	733.9	712.7	699.6	703.0
40°	781.0	717.1	682.1	650.6	631.0	621.7	623.8
42.5°	687.8	640.0	611.1	589.6	575.7	570.6	569.4
45°	582.0	555.2	531.5	519.2	512.4	506.8	503.1
47.5°	509.9	488.0	474.6	467.3	461.4	455.7	455.6
50°	466.6	452.1	442.8	435.0	430.5	426.4	429.9
52.5°	433.5	420.3	411.1	404.1	402.4	398.7	398.6
55°	384.6	374.3	367.6	361.3	358.3	356.2	353.7
57.5°	340.0	330.2	324.1	320.1	314.3	312.1	311.3
60°	308.3	300.5	294.4	289.2	286.6	282.5	282.5
62.5°	279.0	271.2	265.5	261.6	257.3	255.7	256.1
65°	236.6	230.5	224.8	220.7	219.6	216.5	217.5
67.5°	197.6	193.5	187.5	185.3	183.3	181.7	180.5
70°	171.7	167.5	164.4	161.4	159.8	159.8	159.8
72.5°	149.8	144.8	143.0	139.1	140.0	138.4	136.7
75°	116.0	112.9	111.4	109.8	107.2	107.2	107.2
77.5°	85.3	84.4	82.6	80.9	80.3	79.8	80.0
80°	65.9	65.4	64.4	64.4	63.4	62.9	61.9
82.5°	50.7	49.4	48.8	48.4	48.2	48.1	47.9
85°	28.9	27.9	27.9	28.4	27.4	27.4	27.9
87.5°	16.9	17.2	17.0	17.1	17.6	17.3	17.4
90°	28.8	30.2	31.2	31.7	32.2	32.8	33.3
92.5°	30.8	31.5	32.0	32.3	32.7	33.0	33.3
95°	52.3	53.6	54.2	53.9	53.6	53.4	53.1
97.5°	67.8	68.9	69.6	69.9	70.3	70.6	70.9
100°	77.0	79.2	80.6	81.1	81.7	82.2	82.8
102.5°	81.0	83.8	85.6	86.3	87.2	88.0	88.7
105°	84.4	87.5	89.5	90.6	91.7	92.8	93.9
107.5°	96.2	93.2	92.2	93.3	94.4	95.5	96.6
110°	133.8	106.3	93.2	94.3	95.4	96.5	97.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	244.9	144.7	95.0	95.9	96.8	97.7	98.6
115°	380.9	253.8	180.4	160.6	140.9	121.1	101.3
117.5°	751.9	721.2	673.4	608.4	543.5	478.6	413.5
120°	915.3	918.7	901.8	864.7	827.7	790.6	753.6
122.5°	969.8	971.7	969.1	961.9	954.7	947.6	940.3
125°	1049.7	1051.6	1052.9	1053.7	1054.6	1055.4	1056.2
127.5°	1124.4	1127.2	1128.7	1128.8	1129.0	1129.1	1129.3
130°	1171.5	1174.5	1175.9	1175.6	1175.4	1175.1	1174.8
132.5°	1216.6	1219.2	1220.3	1220.1	1219.8	1219.5	1219.3
135°	1281.8	1284.6	1285.7	1285.2	1284.6	1284.0	1283.5
137.5°	1342.2	1344.9	1345.7	1344.8	1343.9	1343.0	1342.0
140°	1381.1	1383.6	1384.1	1382.7	1381.4	1380.0	1378.7
142.5°	1417.0	1419.3	1419.7	1418.4	1416.9	1415.5	1414.2
145°	1467.1	1469.1	1469.4	1467.9	1466.6	1465.2	1463.9
147.5°	1510.7	1512.1	1512.2	1511.1	1509.8	1508.7	1507.6
150°	1538.0	1539.6	1539.7	1538.4	1537.0	1535.6	1534.3
152.5°	1562.7	1564.4	1564.3	1562.5	1560.6	1558.8	1557.0
155°	1596.1	1597.7	1597.4	1595.2	1593.1	1590.8	1588.6
157.5°	1624.4	1626.3	1626.1	1624.0	1621.8	1619.7	1617.5
160°	1640.5	1642.1	1642.0	1640.1	1638.2	1636.3	1634.4
162.5°	1656.0	1657.9	1657.6	1655.3	1652.8	1650.5	1648.2
165°	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9
167.5°	1690.2	1692.1	1691.9	1689.4	1687.0	1684.5	1682.0
170°	1698.2	1700.1	1699.8	1697.4	1694.9	1692.4	1689.9
172.5°	1704.0	1706.0	1705.8	1703.2	1700.8	1698.3	1695.9
175°	1710.5	1712.4	1712.0	1709.3	1706.6	1703.7	1701.0
177.5°	1710.8	1712.4	1712.1	1710.2	1708.2	1706.3	1704.2
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2

(END OF REPORT)