

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: P331822-840

Luminaire Tested: **S122RDIW-S675D1440U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331822-840  
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: S122RDIW-S675D1440U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7615.7 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

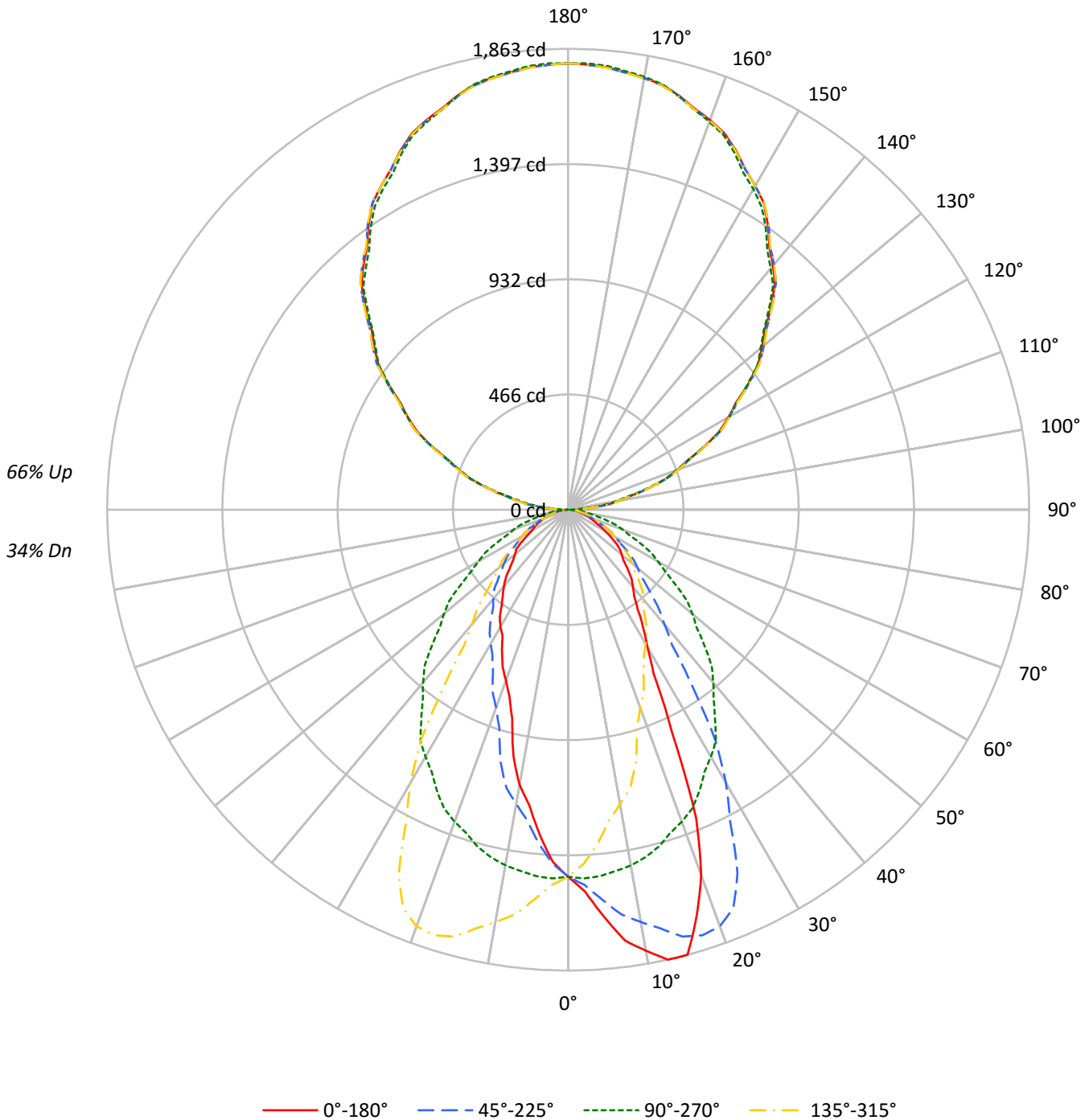
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	91	87	84	85	82	79	76	66	64	62	51	50	48	37	36	36	29
2	87	80	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	26
3	79	71	64	58	71	64	58	54	52	48	44	41	38	36	30	28	27	22
4	73	63	55	50	66	57	51	46	46	42	38	36	33	31	27	25	24	20
5	67	56	49	43	60	51	45	40	42	37	33	33	30	27	25	23	21	18
6	62	51	43	37	56	46	40	35	38	33	29	30	27	24	23	21	19	16
7	57	46	38	33	52	42	35	31	34	30	26	27	24	21	21	19	17	14
8	53	42	34	29	48	38	32	27	31	27	23	25	22	19	19	17	15	13
9	50	38	31	26	45	35	29	24	29	24	21	23	20	17	18	16	14	12
10	46	35	28	24	42	32	26	22	27	22	19	22	18	16	17	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	23954	23954	23954	23954
5°	26752	24104	21371	24104
10°	29681	23935	18525	23935
15°	31141	23584	14596	23584
20°	26996	23063	12631	23063
25°	17706	22352	11277	22352
30°	11917	21490	10206	21490
35°	9652	20402	9207	20402
40°	8585	19220	8517	19220
45°	7768	17831	7606	17831
50°	7068	16458	7043	16458
55°	6646	14933	6559	14933
60°	5561	13533	5493	13533
65°	4688	12287	5318	12287
70°	4334	10976	5013	10976
75°	4049	9551	4629	9551
80°	3738	7857	4119	7857
85°	3446	6206	3631	6206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	1.8
10°-20°	391.9	5.1
20°-30°	505.0	6.6
30°-40°	479.9	6.3
40°-50°	411.1	5.4
50°-60°	313.0	4.1
60°-70°	197.9	2.6
70°-80°	98.8	1.3
80°-90°	32.9	0.4
90°-100°	114.3	1.5
100°-110°	355.0	4.7
110°-120°	606.9	8.0
120°-130°	798.1	10.5
130°-140°	895.8	11.8
140°-150°	878.3	11.5
150°-160°	736.7	9.7
160°-170°	488.6	6.4
170°-180°	170.8	2.2
0°-30°	1037.5	13.6
0°-40°	1517.4	19.9
0°-60°	2241.5	29.4
0°-90°	2571.1	33.8
90°-120°	1076.2	14.1
90°-150°	3648.4	47.9
90°-180°	5045.0	66.2
0°-180°	7615.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1484	1484	1484	1484	1484	
5°	1651	1487	1319	1487	1651	163
15°	1863	1411	873	1411	1863	503
25°	994	1255	633	1255	994	472
35°	490	1035	467	1035	490	313
45°	340	781	333	781	340	263
55°	236	530	233	530	236	207
65°	123	322	139	322	123	125
75°	65	153	74	153	65	69
85°	19	34	20	34	19	21
90°	52	2	52	2	52	23
95°	94	79	94	79	94	105
105°	338	327	338	327	338	355
115°	609	609	609	609	609	601
125°	889	886	889	886	889	793
135°	1160	1146	1160	1146	1160	893
145°	1407	1392	1407	1392	1407	878
155°	1603	1591	1603	1591	1603	738
165°	1732	1731	1732	1731	1732	489
175°	1795	1801	1795	1801	1795	171
180°	1804	1804	1804	1804	1804	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1543.8	1545.0	1546.3	1543.4	1543.4	1540.9	1535.5	1531.5	1519.8	1518.2	1518.2
5°	1650.6	1649.5	1651.6	1645.0	1635.7	1633.6	1623.8	1610.9	1597.5	1582.6	1579.4
7.5°	1756.8	1755.2	1751.1	1750.0	1742.8	1727.3	1711.5	1694.8	1672.4	1650.7	1639.8
10°	1810.4	1827.5	1817.1	1799.1	1802.7	1778.5	1765.5	1743.4	1724.8	1692.3	1685.2
12.5°	1863.2	1869.9	1866.6	1856.3	1851.7	1834.9	1817.6	1798.3	1764.0	1734.8	1709.5
15°	1863.0	1872.8	1875.3	1872.3	1874.8	1873.8	1864.5	1848.6	1818.7	1786.7	1758.9
17.5°	1725.5	1732.2	1749.2	1760.6	1775.0	1805.5	1820.6	1826.4	1822.0	1803.8	1784.2
20°	1571.2	1559.8	1607.3	1631.5	1652.1	1703.6	1748.0	1765.0	1792.3	1791.8	1786.7
22.5°	1352.6	1355.3	1400.3	1429.1	1489.2	1540.8	1591.3	1655.4	1708.2	1743.1	1763.6
25°	993.9	1013.5	1058.3	1097.5	1164.5	1260.4	1347.5	1448.6	1543.9	1619.1	1690.8
27.5°	746.4	747.9	783.5	819.6	859.4	938.0	1047.6	1168.3	1304.2	1416.4	1545.5
30°	639.2	636.1	651.1	673.3	707.2	768.1	850.5	969.2	1104.7	1273.7	1424.3
32.5°	563.3	563.5	574.8	591.2	619.5	660.5	716.9	813.2	941.4	1107.6	1284.0
35°	489.7	489.2	497.5	509.3	521.2	547.4	586.1	636.6	724.8	879.9	1060.4
37.5°	437.0	439.2	443.2	450.6	463.7	478.4	501.6	535.5	598.2	690.0	841.7
40°	407.3	408.3	413.9	420.1	427.9	439.2	458.3	485.5	531.5	604.7	715.5
42.5°	380.0	381.0	385.1	390.8	396.9	408.3	424.0	447.7	484.8	542.0	633.4
45°	340.2	340.2	343.9	346.4	353.1	363.5	376.3	395.9	421.7	463.9	524.7
47.5°	302.9	303.0	305.4	309.8	314.1	322.0	334.8	350.7	369.5	402.2	454.1
50°	281.4	282.0	283.5	287.1	289.7	296.9	306.7	320.6	340.2	365.5	408.8
52.5°	264.2	263.8	265.8	267.3	269.1	274.3	281.6	293.9	311.3	333.4	369.2
55°	236.1	234.0	237.1	239.7	241.3	243.3	247.4	255.2	270.1	288.7	315.5
57.5°	201.1	200.3	202.4	204.8	209.6	215.2	218.6	223.6	231.4	244.7	271.2
60°	172.2	172.2	176.8	178.3	184.0	191.3	198.4	202.6	210.4	219.0	238.6
62.5°	146.6	147.0	149.2	150.8	153.9	162.8	172.9	182.0	189.2	197.6	210.7
65°	122.7	123.7	123.7	124.7	126.8	128.9	133.0	140.2	153.1	164.9	174.7
67.5°	104.1	104.4	104.7	105.7	106.3	108.6	110.2	113.4	116.4	127.6	139.8
70°	91.8	93.3	92.8	93.8	94.3	95.3	97.5	99.0	103.6	106.2	113.4
72.5°	80.2	81.3	81.2	81.9	83.2	83.4	85.0	86.6	89.6	91.8	95.6
75°	64.9	64.4	64.9	65.9	66.4	67.1	67.1	69.1	70.6	72.7	75.2
77.5°	50.1	50.6	50.5	50.6	50.7	51.6	51.5	52.5	54.0	55.0	56.2
80°	40.2	40.7	40.2	40.7	41.2	41.7	41.2	41.7	43.3	44.3	44.3
82.5°	31.1	31.2	31.5	31.6	31.7	31.8	32.6	32.7	33.8	33.6	34.0
85°	18.6	18.1	18.1	18.1	18.6	19.1	18.6	18.6	19.1	19.1	19.1
87.5°	17.0	17.3	17.3	17.2	17.1	17.2	17.3	17.8	17.6	18.1	16.2
90°	51.8	51.4	51.1	50.8	50.4	50.6	51.3	51.9	52.6	53.3	45.8
92.5°	49.3	49.3	49.2	49.1	49.1	49.0	48.8	48.7	48.6	48.4	46.7
95°	94.4	95.0	95.7	96.4	97.0	97.5	97.5	97.5	97.5	97.5	96.7
97.5°	163.5	163.6	163.6	163.7	163.8	163.8	163.8	163.8	163.8	163.8	162.5
100°	208.5	208.9	209.2	209.5	210.0	210.1	210.1	210.1	210.1	210.1	209.0
102.5°	259.7	260.0	260.4	260.7	261.1	261.2	260.8	260.5	260.3	260.0	258.7
105°	338.0	338.0	338.0	338.0	338.0	337.6	337.0	336.3	335.6	335.0	334.3
107.5°	411.6	413.2	414.8	416.4	417.9	418.5	418.3	418.0	417.7	417.5	417.5
110°	468.9	469.9	470.9	471.9	472.9	473.5	473.5	473.5	473.5	473.5	473.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	523.7	524.4	525.2	525.9	526.6	527.5	528.3	529.1	529.9	530.7	531.0
115°	608.9	610.0	611.0	612.0	613.0	613.7	614.0	614.4	614.7	615.1	615.7
117.5°	690.2	691.3	692.3	693.3	694.3	695.3	696.1	696.9	697.7	698.5	700.3
120°	747.5	748.5	749.5	750.5	751.5	752.0	752.0	752.0	752.0	752.0	754.8
122.5°	803.5	804.3	805.1	805.8	806.5	807.3	808.1	808.9	809.7	810.5	812.4
125°	889.1	889.5	889.8	890.1	890.5	891.1	892.1	893.1	894.1	895.1	896.3
127.5°	967.0	968.2	969.2	970.3	971.4	972.5	973.7	974.9	976.1	977.4	978.7
130°	1023.1	1024.4	1025.8	1027.1	1028.4	1029.5	1030.2	1030.9	1031.6	1032.2	1032.9
132.5°	1076.6	1077.7	1078.8	1079.9	1081.0	1082.3	1083.8	1085.3	1086.7	1088.2	1088.1
135°	1160.1	1161.1	1162.2	1163.2	1164.2	1164.9	1165.2	1165.5	1165.9	1166.2	1165.5
137.5°	1235.6	1237.0	1238.3	1239.7	1241.0	1241.8	1242.1	1242.3	1242.6	1242.9	1242.0
140°	1288.0	1289.3	1290.7	1292.0	1293.4	1294.0	1294.0	1294.0	1294.0	1294.0	1292.4
142.5°	1335.4	1336.9	1338.2	1339.6	1340.9	1341.4	1341.2	1340.9	1340.6	1340.4	1339.2
145°	1406.7	1408.1	1409.5	1410.8	1412.1	1412.6	1412.3	1412.0	1411.6	1411.3	1409.3
147.5°	1470.4	1471.7	1472.9	1474.2	1475.5	1475.8	1475.0	1474.3	1473.6	1472.8	1471.5
150°	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8	1514.8	1513.8	1512.8	1511.8	1510.5
152.5°	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9	1554.6	1553.3	1552.1	1550.7	1549.1
155°	1603.2	1604.2	1605.2	1606.2	1607.2	1606.8	1605.2	1603.5	1601.7	1600.0	1599.0
157.5°	1648.2	1649.8	1651.4	1653.0	1654.7	1654.4	1652.0	1649.7	1647.4	1645.2	1644.6
160°	1676.2	1677.6	1678.9	1680.2	1681.6	1681.2	1679.2	1677.2	1675.2	1673.1	1672.8
162.5°	1700.5	1702.2	1703.8	1705.5	1707.1	1706.7	1704.5	1702.1	1699.8	1697.5	1697.2
165°	1732.5	1734.2	1736.0	1737.6	1739.3	1739.0	1736.6	1734.2	1731.8	1729.5	1729.5
167.5°	1758.7	1760.5	1762.2	1764.0	1765.7	1765.4	1763.1	1760.7	1758.4	1756.0	1756.1
170°	1772.1	1774.1	1776.2	1778.2	1780.2	1780.1	1777.7	1775.3	1772.9	1770.6	1770.9
172.5°	1783.1	1785.1	1787.2	1789.2	1791.2	1791.0	1788.7	1786.2	1783.9	1781.5	1781.9
175°	1794.9	1797.0	1799.0	1801.0	1803.1	1802.9	1800.5	1798.2	1795.8	1793.4	1794.1
177.5°	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0	1805.3	1803.7	1802.0	1800.4	1801.0
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1519.0	1515.7	1512.9	1505.4	1501.8	1493.5	1492.3	1491.9	1481.1	1470.8	1467.9
5°	1571.2	1563.0	1550.5	1536.1	1521.2	1505.7	1495.4	1487.2	1466.5	1446.9	1435.6
7.5°	1623.8	1606.1	1584.7	1557.4	1534.6	1509.0	1490.1	1473.1	1443.8	1415.7	1396.8
10°	1662.9	1634.1	1605.8	1568.1	1538.7	1509.8	1483.1	1459.9	1426.8	1389.8	1363.4
12.5°	1687.3	1655.6	1616.5	1579.6	1541.7	1504.9	1469.1	1439.3	1400.5	1362.1	1330.9
15°	1720.2	1686.2	1638.7	1586.2	1537.2	1489.2	1448.0	1410.9	1360.4	1314.5	1276.4
17.5°	1747.1	1700.3	1649.3	1588.5	1531.9	1470.9	1417.7	1370.4	1314.1	1258.8	1213.9
20°	1755.8	1709.4	1650.6	1589.7	1522.8	1451.1	1393.9	1342.3	1282.0	1221.7	1170.1
22.5°	1750.4	1714.3	1648.9	1576.2	1507.5	1432.5	1367.9	1308.1	1241.2	1179.6	1119.8
25°	1714.0	1701.6	1639.8	1560.3	1482.1	1394.9	1320.2	1254.7	1178.4	1112.5	1047.4
27.5°	1629.1	1655.9	1617.5	1533.0	1445.8	1352.4	1268.4	1193.9	1114.7	1040.5	975.7
30°	1547.5	1608.8	1592.4	1514.0	1416.5	1324.8	1230.5	1152.7	1068.1	991.8	927.9
32.5°	1435.7	1537.1	1553.2	1487.6	1386.8	1286.1	1187.2	1109.7	1021.5	941.1	878.8
35°	1257.8	1409.4	1478.9	1437.1	1336.2	1227.4	1125.3	1035.1	946.4	867.1	805.2
37.5°	1045.5	1251.9	1367.9	1370.9	1278.1	1165.0	1053.9	964.3	873.5	795.6	728.7
40°	907.8	1131.5	1282.5	1316.1	1237.7	1115.5	1003.1	911.9	823.2	746.9	670.1
42.5°	784.1	1006.9	1192.7	1250.9	1188.6	1067.2	954.5	859.1	773.0	700.7	622.3
45°	634.1	828.9	1033.6	1137.7	1103.2	990.8	871.7	780.9	700.0	637.6	562.4
47.5°	534.8	672.2	870.2	1011.1	1010.5	907.9	790.7	703.9	628.8	570.4	509.4
50°	478.4	597.9	765.5	925.3	938.7	852.6	741.2	655.2	585.1	523.7	474.7
52.5°	427.7	526.2	676.8	830.0	868.2	793.7	685.6	606.1	538.1	481.7	439.7
55°	361.3	437.7	552.1	695.4	753.2	700.5	604.7	530.5	475.2	427.9	391.7
57.5°	305.7	362.9	454.7	570.2	637.3	604.3	525.1	464.8	417.7	374.8	346.3
60°	270.6	317.5	395.4	491.8	566.0	542.8	475.2	419.1	378.9	341.7	315.0
62.5°	237.6	277.9	344.7	422.9	491.0	481.4	426.2	379.1	343.9	310.0	287.3
65°	191.3	220.7	272.7	334.1	388.7	393.3	353.7	321.6	290.2	263.4	243.3
67.5°	152.3	171.5	208.1	259.8	300.7	315.4	291.1	266.7	241.8	221.1	203.6
70°	128.4	143.8	170.7	212.4	250.0	265.5	251.6	232.5	210.9	193.8	178.8
72.5°	104.0	119.1	138.9	169.5	201.8	218.4	213.6	200.0	182.4	168.2	154.1
75°	78.4	83.0	96.4	117.0	142.3	156.7	160.4	153.1	139.2	128.4	120.1
77.5°	58.0	60.7	67.2	78.0	94.4	107.3	112.6	111.8	102.2	95.8	88.2
80°	46.4	48.0	51.0	55.6	68.1	80.9	84.5	84.5	77.9	75.2	67.6
82.5°	35.2	36.4	38.3	40.8	46.6	57.9	61.9	62.7	58.5	55.0	49.0
85°	20.1	19.6	20.6	22.1	23.2	26.3	32.5	33.5	32.5	28.4	26.8
87.5°	14.6	13.6	12.1	10.6	10.2	9.8	11.0	12.2	11.4	11.0	11.0
90°	38.4	31.0	23.5	17.8	13.7	9.6	5.6	1.5	5.6	9.6	13.7
92.5°	44.9	43.1	41.4	39.0	36.1	33.0	30.1	27.1	30.1	33.0	36.1
95°	96.0	95.4	94.7	92.7	89.3	85.9	82.5	79.2	82.5	85.9	89.3
97.5°	161.3	160.0	158.6	156.5	153.6	150.6	147.6	144.6	147.6	150.6	153.6
100°	208.0	207.0	206.0	204.2	201.5	198.7	196.0	193.4	196.0	198.7	201.5
102.5°	257.4	256.2	254.9	253.2	251.0	248.8	246.7	244.5	246.7	248.8	251.0
105°	333.6	333.0	332.2	331.3	330.3	329.3	328.3	327.3	328.3	329.3	330.3
107.5°	417.5	417.5	417.5	416.7	415.3	413.7	412.2	410.7	412.2	413.7	415.3
110°	473.5	473.5	473.5	472.4	470.4	468.4	466.4	464.3	466.4	468.4	470.4





TEST NUMBER: P331822-840

CATALOG NUMBER: S122RDIW-S675D1440U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	531.3	531.5	531.8	530.9	528.9	526.8	524.8	522.8	524.8	526.8	528.9
115°	616.4	617.1	617.7	617.1	615.1	613.0	611.0	608.9	611.0	613.0	615.1
117.5°	702.3	704.2	706.1	705.7	703.0	700.2	697.5	694.9	697.5	700.2	703.0
120°	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0	754.8	757.5	760.2
122.5°	814.4	816.3	818.1	817.5	814.2	810.9	807.7	804.5	807.7	810.9	814.2
125°	897.3	898.3	899.3	898.3	895.1	892.1	889.1	886.1	889.1	892.1	895.1
127.5°	979.9	981.1	982.3	981.0	977.1	973.2	969.4	965.5	969.4	973.2	977.1
130°	1033.6	1034.2	1034.9	1033.1	1028.6	1024.3	1019.9	1015.4	1019.9	1024.3	1028.6
132.5°	1087.9	1087.8	1087.7	1085.8	1082.3	1078.6	1075.1	1071.5	1075.1	1078.6	1082.3
135°	1164.9	1164.2	1163.5	1161.2	1157.5	1153.9	1150.1	1146.4	1150.1	1153.9	1157.5
137.5°	1241.1	1240.3	1239.4	1237.4	1234.4	1231.3	1228.3	1225.3	1228.3	1231.3	1234.4
140°	1290.7	1289.0	1287.3	1285.0	1281.9	1278.9	1275.8	1272.7	1275.8	1278.9	1281.9
142.5°	1338.1	1336.9	1335.7	1333.6	1330.6	1327.6	1324.5	1321.5	1324.5	1327.6	1330.6
145°	1407.2	1405.2	1403.2	1401.0	1398.6	1396.2	1393.9	1391.5	1393.9	1396.2	1398.6
147.5°	1470.1	1468.7	1467.4	1465.3	1462.5	1459.6	1456.7	1453.9	1456.7	1459.6	1462.5
150°	1509.0	1507.7	1506.3	1504.7	1502.7	1500.7	1498.5	1496.5	1498.5	1500.7	1502.7
152.5°	1547.5	1545.9	1544.3	1542.5	1540.3	1538.3	1536.3	1534.3	1536.3	1538.3	1540.3
155°	1598.0	1597.0	1596.0	1595.0	1594.0	1593.0	1592.0	1590.9	1592.0	1593.0	1594.0
157.5°	1644.0	1643.4	1642.7	1642.0	1641.4	1640.7	1640.0	1639.3	1640.0	1640.7	1641.4
160°	1672.4	1672.1	1671.8	1671.3	1670.6	1669.9	1669.3	1668.6	1669.3	1669.9	1670.6
162.5°	1696.9	1696.5	1696.2	1696.0	1695.8	1695.7	1695.6	1695.4	1695.6	1695.7	1695.8
165°	1729.5	1729.5	1729.5	1729.7	1730.0	1730.3	1730.7	1731.0	1730.7	1730.3	1730.0
167.5°	1756.2	1756.2	1756.3	1756.8	1757.8	1758.8	1759.8	1760.8	1759.8	1758.8	1757.8
170°	1771.3	1771.6	1771.9	1772.6	1773.6	1774.6	1775.6	1776.7	1775.6	1774.6	1773.6
172.5°	1782.2	1782.6	1782.9	1783.6	1784.6	1785.6	1786.7	1787.7	1786.7	1785.6	1784.6
175°	1794.7	1795.4	1796.1	1797.0	1798.0	1799.0	1800.0	1801.0	1800.0	1799.0	1798.0
177.5°	1801.5	1802.0	1802.6	1803.3	1804.1	1804.9	1805.7	1806.5	1805.7	1804.9	1804.1
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



TEST NUMBER: P331822-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1462.6	1459.7	1454.3	1446.0	1441.1	1432.4	1426.6	1430.0	1430.8	1430.0	1429.2
5°	1423.3	1412.4	1397.5	1383.0	1369.7	1355.2	1347.0	1343.3	1336.2	1332.0	1330.0
7.5°	1375.7	1357.1	1336.0	1310.8	1289.4	1267.1	1255.7	1249.9	1235.2	1227.2	1220.1
10°	1340.3	1310.9	1289.8	1256.8	1236.7	1207.3	1187.2	1187.7	1167.6	1156.2	1148.0
12.5°	1301.1	1268.8	1233.7	1204.0	1176.0	1152.5	1128.2	1118.4	1097.0	1086.1	1063.9
15°	1236.2	1198.5	1161.4	1121.2	1092.9	1056.2	1021.2	978.4	943.8	913.9	905.7
17.5°	1165.2	1118.6	1081.4	1034.2	985.6	924.0	883.4	858.6	837.8	822.0	810.2
20°	1116.5	1069.1	1029.5	958.3	892.8	851.1	821.2	802.1	780.4	763.5	754.2
22.5°	1065.4	1015.9	961.8	882.4	831.4	797.9	771.2	749.3	734.7	721.3	713.0
25°	992.8	938.7	849.5	794.9	753.7	718.6	700.0	686.6	671.2	653.1	644.9
27.5°	916.1	830.0	766.0	725.4	686.0	663.2	646.5	626.5	612.7	604.6	596.0
30°	858.8	772.7	722.8	678.4	650.6	625.3	605.7	594.4	581.0	567.0	561.4
32.5°	794.9	726.1	678.2	641.3	613.0	591.5	576.0	557.6	548.0	539.4	527.6
35°	715.5	663.5	619.7	589.8	562.9	545.4	527.4	516.5	499.0	491.8	487.2
37.5°	648.2	603.1	570.5	538.9	517.7	498.3	487.3	470.0	462.4	452.4	442.6
40°	610.4	566.0	534.5	508.8	485.0	470.6	456.8	442.8	431.4	426.9	415.0
42.5°	571.6	535.5	504.0	475.7	459.9	444.6	427.1	416.9	405.1	397.6	390.2
45°	518.1	486.1	459.3	436.1	418.6	402.6	391.2	374.3	367.6	352.5	346.4
47.5°	471.1	441.3	415.8	393.7	376.6	366.2	349.6	336.3	325.6	316.4	308.5
50°	437.7	412.9	388.2	368.6	353.1	338.2	321.1	314.5	297.9	293.3	288.7
52.5°	407.2	383.6	360.9	341.7	326.3	311.7	296.8	288.0	276.9	272.3	268.9
55°	364.5	341.7	320.1	303.1	287.6	272.7	263.4	252.6	247.4	243.8	239.7
57.5°	321.5	301.1	284.6	267.3	251.8	239.9	229.1	222.7	217.3	212.6	207.6
60°	294.4	274.8	259.8	243.8	227.8	218.0	209.8	202.1	195.9	188.6	186.6
62.5°	265.5	248.3	234.7	219.0	205.2	196.2	188.3	181.1	173.6	163.1	160.2
65°	225.8	212.4	197.9	185.1	172.7	163.9	152.6	144.3	141.3	140.2	139.7
67.5°	190.0	177.2	164.8	151.7	140.4	132.3	126.5	125.2	123.1	122.5	121.1
70°	166.0	154.1	141.8	129.4	118.6	117.0	114.9	112.9	110.3	109.3	108.3
72.5°	144.5	132.3	119.9	110.0	105.3	103.4	101.4	99.3	97.6	96.5	95.8
75°	110.8	99.5	91.3	87.7	85.0	83.5	80.4	78.9	77.9	76.2	75.7
77.5°	79.8	73.4	69.6	67.4	64.6	63.0	61.2	59.7	58.6	58.3	57.5
80°	60.8	57.8	55.1	52.1	51.0	49.0	48.5	47.0	47.5	45.8	45.8
82.5°	47.3	43.3	41.1	39.7	38.7	37.1	36.5	35.7	35.9	34.7	34.7
85°	24.2	23.2	22.1	21.1	21.1	19.6	20.1	19.6	19.6	18.6	18.1
87.5°	11.4	12.1	12.8	14.2	15.8	16.9	16.7	16.2	16.1	15.9	15.5
90°	17.8	23.5	31.0	38.4	45.8	53.3	52.6	51.9	51.3	50.6	50.4
92.5°	39.0	41.4	43.1	44.9	46.7	48.4	48.6	48.7	48.8	49.0	49.1
95°	92.7	94.7	95.4	96.0	96.7	97.5	97.5	97.5	97.5	97.5	97.0
97.5°	156.5	158.6	160.0	161.3	162.5	163.8	163.8	163.8	163.8	163.8	163.8
100°	204.2	206.0	207.0	208.0	209.0	210.1	210.1	210.1	210.1	210.1	210.0
102.5°	253.2	254.9	256.2	257.4	258.7	260.0	260.3	260.5	260.8	261.2	261.1
105°	331.3	332.2	333.0	333.6	334.3	335.0	335.6	336.3	337.0	337.6	338.0
107.5°	416.7	417.5	417.5	417.5	417.5	417.5	417.7	418.0	418.3	418.5	417.9
110°	472.4	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	472.9



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CATALOG NUMBER: S122RDIW-S675D1440U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	530.9	531.8	531.5	531.3	531.0	530.7	529.9	529.1	528.3	527.5	526.6
115°	617.1	617.7	617.1	616.4	615.7	615.1	614.7	614.4	614.0	613.7	613.0
117.5°	705.7	706.1	704.2	702.3	700.3	698.5	697.7	696.9	696.1	695.3	694.3
120°	763.0	763.0	760.2	757.5	754.8	752.0	752.0	752.0	752.0	752.0	751.5
122.5°	817.5	818.1	816.3	814.4	812.4	810.5	809.7	808.9	808.1	807.3	806.5
125°	898.3	899.3	898.3	897.3	896.3	895.1	894.1	893.1	892.1	891.1	890.5
127.5°	981.0	982.3	981.1	979.9	978.7	977.4	976.1	974.9	973.7	972.5	971.4
130°	1033.1	1034.9	1034.2	1033.6	1032.9	1032.2	1031.6	1030.9	1030.2	1029.5	1028.4
132.5°	1085.8	1087.7	1087.8	1087.9	1088.1	1088.2	1086.7	1085.3	1083.8	1082.3	1081.0
135°	1161.2	1163.5	1164.2	1164.9	1165.5	1166.2	1165.9	1165.5	1165.2	1164.9	1164.2
137.5°	1237.4	1239.4	1240.3	1241.1	1242.0	1242.9	1242.6	1242.3	1242.1	1241.8	1241.0
140°	1285.0	1287.3	1289.0	1290.7	1292.4	1294.0	1294.0	1294.0	1294.0	1294.0	1293.4
142.5°	1333.6	1335.7	1336.9	1338.1	1339.2	1340.4	1340.6	1340.9	1341.2	1341.4	1340.9
145°	1401.0	1403.2	1405.2	1407.2	1409.3	1411.3	1411.6	1412.0	1412.3	1412.6	1412.1
147.5°	1465.3	1467.4	1468.7	1470.1	1471.5	1472.8	1473.6	1474.3	1475.0	1475.8	1475.5
150°	1504.7	1506.3	1507.7	1509.0	1510.5	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8
152.5°	1542.5	1544.3	1545.9	1547.5	1549.1	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9
155°	1595.0	1596.0	1597.0	1598.0	1599.0	1600.0	1601.7	1603.5	1605.2	1606.8	1607.2
157.5°	1642.0	1642.7	1643.4	1644.0	1644.6	1645.2	1647.4	1649.7	1652.0	1654.4	1654.7
160°	1671.3	1671.8	1672.1	1672.4	1672.8	1673.1	1675.2	1677.2	1679.2	1681.2	1681.6
162.5°	1696.0	1696.2	1696.5	1696.9	1697.2	1697.5	1699.8	1702.1	1704.5	1706.7	1707.1
165°	1729.7	1729.5	1729.5	1729.5	1729.5	1729.5	1731.8	1734.2	1736.6	1739.0	1739.3
167.5°	1756.8	1756.3	1756.2	1756.2	1756.1	1756.0	1758.4	1760.7	1763.1	1765.4	1765.7
170°	1772.6	1771.9	1771.6	1771.3	1770.9	1770.6	1772.9	1775.3	1777.7	1780.1	1780.2
172.5°	1783.6	1782.9	1782.6	1782.2	1781.9	1781.5	1783.9	1786.2	1788.7	1791.0	1791.2
175°	1797.0	1796.1	1795.4	1794.7	1794.1	1793.4	1795.8	1798.2	1800.5	1802.9	1803.1
177.5°	1803.3	1802.6	1802.0	1801.5	1801.0	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1424.6	1425.4	1424.2	1425.0	1424.2	1425.4	1424.6	1429.2	1430.0	1430.8	1430.0
5°	1327.4	1321.2	1320.2	1318.6	1320.2	1321.2	1327.4	1330.0	1332.0	1336.2	1343.3
7.5°	1211.3	1210.3	1207.8	1204.2	1207.8	1210.3	1211.3	1220.1	1227.2	1235.2	1249.9
10°	1136.6	1134.1	1133.6	1129.9	1133.6	1134.1	1136.6	1148.0	1156.2	1167.6	1187.7
12.5°	1049.2	1032.6	1030.9	1021.9	1030.9	1032.6	1049.2	1063.9	1086.1	1097.0	1118.4
15°	893.3	890.3	879.9	873.2	879.9	890.3	893.3	905.7	913.9	943.8	978.4
17.5°	804.3	794.2	790.9	789.5	790.9	794.2	804.3	810.2	822.0	837.8	858.6
20°	746.9	737.7	736.1	735.1	736.1	737.7	746.9	754.2	763.5	780.4	802.1
22.5°	707.3	697.6	693.7	690.5	693.7	697.6	707.3	713.0	721.3	734.7	749.3
25°	639.7	636.1	634.1	633.0	634.1	636.1	639.7	644.9	653.1	671.2	686.6
27.5°	586.8	578.9	577.3	574.7	577.3	578.9	586.8	596.0	604.6	612.7	626.5
30°	556.7	554.1	550.6	547.4	550.6	554.1	556.7	561.4	567.0	581.0	594.4
32.5°	521.3	519.1	515.9	514.4	515.9	519.1	521.3	527.6	539.4	548.0	557.6
35°	482.0	474.7	471.7	467.1	471.7	474.7	482.0	487.2	491.8	499.0	516.5
37.5°	440.4	436.7	432.3	433.8	432.3	436.7	440.4	442.6	452.4	462.4	470.0
40°	408.3	405.7	404.7	404.1	404.7	405.7	408.3	415.0	426.9	431.4	442.8
42.5°	382.7	375.6	372.9	372.8	372.9	375.6	382.7	390.2	397.6	405.1	416.9
45°	343.9	337.1	332.4	333.1	332.4	337.1	343.9	346.4	352.5	367.6	374.3
47.5°	304.1	303.9	300.9	301.8	300.9	303.9	304.1	308.5	316.4	325.6	336.3
50°	285.1	282.0	279.9	280.4	279.9	282.0	285.1	288.7	293.3	297.9	314.5
52.5°	266.9	264.3	262.6	264.8	262.6	264.3	266.9	268.9	272.3	276.9	288.0
55°	237.1	234.0	233.5	233.0	233.5	234.0	237.1	239.7	243.8	247.4	252.6
57.5°	203.8	201.8	198.6	197.3	198.6	201.8	203.8	207.6	212.6	217.3	222.7
60°	179.9	175.8	170.7	170.1	170.7	175.8	179.9	186.6	188.6	195.9	202.1
62.5°	158.0	157.2	156.2	156.1	156.2	157.2	158.0	160.2	163.1	173.6	181.1
65°	138.7	138.1	138.7	139.2	138.7	138.1	138.7	139.7	140.2	141.3	144.3
67.5°	120.9	119.9	119.0	119.4	119.0	119.9	120.9	121.1	122.5	123.1	125.2
70°	107.2	106.7	106.2	106.2	106.2	106.7	107.2	108.3	109.3	110.3	112.9
72.5°	94.0	93.9	93.4	93.0	93.4	93.9	94.0	95.8	96.5	97.6	99.3
75°	75.2	74.2	74.2	74.2	74.2	74.2	75.2	75.7	76.2	77.9	78.9
77.5°	57.4	56.9	56.2	55.8	56.2	56.9	57.4	57.5	58.3	58.6	59.7
80°	45.3	44.8	44.3	44.3	44.3	44.8	45.3	45.8	45.8	47.5	47.0
82.5°	34.6	34.1	34.0	33.6	34.0	34.1	34.6	34.7	34.7	35.9	35.7
85°	18.6	19.1	18.6	19.6	18.6	19.1	18.6	18.1	18.6	19.6	19.6
87.5°	15.6	15.1	15.7	15.3	15.7	15.1	15.6	15.5	15.9	16.1	16.2
90°	50.8	51.1	51.4	51.8	51.4	51.1	50.8	50.4	50.6	51.3	51.9
92.5°	49.1	49.2	49.3	49.3	49.3	49.2	49.1	49.1	49.0	48.8	48.7
95°	96.4	95.7	95.0	94.4	95.0	95.7	96.4	97.0	97.5	97.5	97.5
97.5°	163.7	163.6	163.6	163.5	163.6	163.6	163.7	163.8	163.8	163.8	163.8
100°	209.5	209.2	208.9	208.5	208.9	209.2	209.5	210.0	210.1	210.1	210.1
102.5°	260.7	260.4	260.0	259.7	260.0	260.4	260.7	261.1	261.2	260.8	260.5
105°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	337.6	337.0	336.3
107.5°	416.4	414.8	413.2	411.6	413.2	414.8	416.4	417.9	418.5	418.3	418.0
110°	471.9	470.9	469.9	468.9	469.9	470.9	471.9	472.9	473.5	473.5	473.5



TEST NUMBER: P331822-840

CATALOG NUMBER: S122RDIW-S675D1440U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	525.9	525.2	524.4	523.7	524.4	525.2	525.9	526.6	527.5	528.3	529.1
115°	612.0	611.0	610.0	608.9	610.0	611.0	612.0	613.0	613.7	614.0	614.4
117.5°	693.3	692.3	691.3	690.2	691.3	692.3	693.3	694.3	695.3	696.1	696.9
120°	750.5	749.5	748.5	747.5	748.5	749.5	750.5	751.5	752.0	752.0	752.0
122.5°	805.8	805.1	804.3	803.5	804.3	805.1	805.8	806.5	807.3	808.1	808.9
125°	890.1	889.8	889.5	889.1	889.5	889.8	890.1	890.5	891.1	892.1	893.1
127.5°	970.3	969.2	968.2	967.0	968.2	969.2	970.3	971.4	972.5	973.7	974.9
130°	1027.1	1025.8	1024.4	1023.1	1024.4	1025.8	1027.1	1028.4	1029.5	1030.2	1030.9
132.5°	1079.9	1078.8	1077.7	1076.6	1077.7	1078.8	1079.9	1081.0	1082.3	1083.8	1085.3
135°	1163.2	1162.2	1161.1	1160.1	1161.1	1162.2	1163.2	1164.2	1164.9	1165.2	1165.5
137.5°	1239.7	1238.3	1237.0	1235.6	1237.0	1238.3	1239.7	1241.0	1241.8	1242.1	1242.3
140°	1292.0	1290.7	1289.3	1288.0	1289.3	1290.7	1292.0	1293.4	1294.0	1294.0	1294.0
142.5°	1339.6	1338.2	1336.9	1335.4	1336.9	1338.2	1339.6	1340.9	1341.4	1341.2	1340.9
145°	1410.8	1409.5	1408.1	1406.7	1408.1	1409.5	1410.8	1412.1	1412.6	1412.3	1412.0
147.5°	1474.2	1472.9	1471.7	1470.4	1471.7	1472.9	1474.2	1475.5	1475.8	1475.0	1474.3
150°	1514.8	1513.8	1512.8	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8	1514.8	1513.8
152.5°	1554.6	1553.3	1552.1	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9	1554.6	1553.3
155°	1606.2	1605.2	1604.2	1603.2	1604.2	1605.2	1606.2	1607.2	1606.8	1605.2	1603.5
157.5°	1653.0	1651.4	1649.8	1648.2	1649.8	1651.4	1653.0	1654.7	1654.4	1652.0	1649.7
160°	1680.2	1678.9	1677.6	1676.2	1677.6	1678.9	1680.2	1681.6	1681.2	1679.2	1677.2
162.5°	1705.5	1703.8	1702.2	1700.5	1702.2	1703.8	1705.5	1707.1	1706.7	1704.5	1702.1
165°	1737.6	1736.0	1734.2	1732.5	1734.2	1736.0	1737.6	1739.3	1739.0	1736.6	1734.2
167.5°	1764.0	1762.2	1760.5	1758.7	1760.5	1762.2	1764.0	1765.7	1765.4	1763.1	1760.7
170°	1778.2	1776.2	1774.1	1772.1	1774.1	1776.2	1778.2	1780.2	1780.1	1777.7	1775.3
172.5°	1789.2	1787.2	1785.1	1783.1	1785.1	1787.2	1789.2	1791.2	1791.0	1788.7	1786.2
175°	1801.0	1799.0	1797.0	1794.9	1797.0	1799.0	1801.0	1803.1	1802.9	1800.5	1798.2
177.5°	1805.3	1803.7	1802.0	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0	1805.3	1803.7
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1426.6	1432.4	1441.1	1446.0	1454.3	1459.7	1462.6	1467.9	1470.8	1481.1	1491.9
5°	1347.0	1355.2	1369.7	1383.0	1397.5	1412.4	1423.3	1435.6	1446.9	1466.5	1487.2
7.5°	1255.7	1267.1	1289.4	1310.8	1336.0	1357.1	1375.7	1396.8	1415.7	1443.8	1473.1
10°	1187.2	1207.3	1236.7	1256.8	1289.8	1310.9	1340.3	1363.4	1389.8	1426.8	1459.9
12.5°	1128.2	1152.5	1176.0	1204.0	1233.7	1268.8	1301.1	1330.9	1362.1	1400.5	1439.3
15°	1021.2	1056.2	1092.9	1121.2	1161.4	1198.5	1236.2	1276.4	1314.5	1360.4	1410.9
17.5°	883.4	924.0	985.6	1034.2	1081.4	1118.6	1165.2	1213.9	1258.8	1314.1	1370.4
20°	821.2	851.1	892.8	958.3	1029.5	1069.1	1116.5	1170.1	1221.7	1282.0	1342.3
22.5°	771.2	797.9	831.4	882.4	961.8	1015.9	1065.4	1119.8	1179.6	1241.2	1308.1
25°	700.0	718.6	753.7	794.9	849.5	938.7	992.8	1047.4	1112.5	1178.4	1254.7
27.5°	646.5	663.2	686.0	725.4	766.0	830.0	916.1	975.7	1040.5	1114.7	1193.9
30°	605.7	625.3	650.6	678.4	722.8	772.7	858.8	927.9	991.8	1068.1	1152.7
32.5°	576.0	591.5	613.0	641.3	678.2	726.1	794.9	878.8	941.1	1021.5	1109.7
35°	527.4	545.4	562.9	589.8	619.7	663.5	715.5	805.2	867.1	946.4	1035.1
37.5°	487.3	498.3	517.7	538.9	570.5	603.1	648.2	728.7	795.6	873.5	964.3
40°	456.8	470.6	485.0	508.8	534.5	566.0	610.4	670.1	746.9	823.2	911.9
42.5°	427.1	444.6	459.9	475.7	504.0	535.5	571.6	622.3	700.7	773.0	859.1
45°	391.2	402.6	418.6	436.1	459.3	486.1	518.1	562.4	637.6	700.0	780.9
47.5°	349.6	366.2	376.6	393.7	415.8	441.3	471.1	509.4	570.4	628.8	703.9
50°	321.1	338.2	353.1	368.6	388.2	412.9	437.7	474.7	523.7	585.1	655.2
52.5°	296.8	311.7	326.3	341.7	360.9	383.6	407.2	439.7	481.7	538.1	606.1
55°	263.4	272.7	287.6	303.1	320.1	341.7	364.5	391.7	427.9	475.2	530.5
57.5°	229.1	239.9	251.8	267.3	284.6	301.1	321.5	346.3	374.8	417.7	464.8
60°	209.8	218.0	227.8	243.8	259.8	274.8	294.4	315.0	341.7	378.9	419.1
62.5°	188.3	196.2	205.2	219.0	234.7	248.3	265.5	287.3	310.0	343.9	379.1
65°	152.6	163.9	172.7	185.1	197.9	212.4	225.8	243.3	263.4	290.2	321.6
67.5°	126.5	132.3	140.4	151.7	164.8	177.2	190.0	203.6	221.1	241.8	266.7
70°	114.9	117.0	118.6	129.4	141.8	154.1	166.0	178.8	193.8	210.9	232.5
72.5°	101.4	103.4	105.3	110.0	119.9	132.3	144.5	154.1	168.2	182.4	200.0
75°	80.4	83.5	85.0	87.7	91.3	99.5	110.8	120.1	128.4	139.2	153.1
77.5°	61.2	63.0	64.6	67.4	69.6	73.4	79.8	88.2	95.8	102.2	111.8
80°	48.5	49.0	51.0	52.1	55.1	57.8	60.8	67.6	75.2	77.9	84.5
82.5°	36.5	37.1	38.7	39.7	41.1	43.3	47.3	49.0	55.0	58.5	62.7
85°	20.1	19.6	21.1	21.1	22.1	23.2	24.2	26.8	28.4	32.5	33.5
87.5°	16.7	16.9	15.8	14.2	12.8	12.1	11.4	11.0	11.0	11.4	12.2
90°	52.6	53.3	45.8	38.4	31.0	23.5	17.8	13.7	9.6	5.6	1.5
92.5°	48.6	48.4	46.7	44.9	43.1	41.4	39.0	36.1	33.0	30.1	27.1
95°	97.5	97.5	96.7	96.0	95.4	94.7	92.7	89.3	85.9	82.5	79.2
97.5°	163.8	163.8	162.5	161.3	160.0	158.6	156.5	153.6	150.6	147.6	144.6
100°	210.1	210.1	209.0	208.0	207.0	206.0	204.2	201.5	198.7	196.0	193.4
102.5°	260.3	260.0	258.7	257.4	256.2	254.9	253.2	251.0	248.8	246.7	244.5
105°	335.6	335.0	334.3	333.6	333.0	332.2	331.3	330.3	329.3	328.3	327.3
107.5°	417.7	417.5	417.5	417.5	417.5	417.5	416.7	415.3	413.7	412.2	410.7
110°	473.5	473.5	473.5	473.5	473.5	473.5	472.4	470.4	468.4	466.4	464.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	529.9	530.7	531.0	531.3	531.5	531.8	530.9	528.9	526.8	524.8	522.8
115°	614.7	615.1	615.7	616.4	617.1	617.7	617.1	615.1	613.0	611.0	608.9
117.5°	697.7	698.5	700.3	702.3	704.2	706.1	705.7	703.0	700.2	697.5	694.9
120°	752.0	752.0	754.8	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0
122.5°	809.7	810.5	812.4	814.4	816.3	818.1	817.5	814.2	810.9	807.7	804.5
125°	894.1	895.1	896.3	897.3	898.3	899.3	898.3	895.1	892.1	889.1	886.1
127.5°	976.1	977.4	978.7	979.9	981.1	982.3	981.0	977.1	973.2	969.4	965.5
130°	1031.6	1032.2	1032.9	1033.6	1034.2	1034.9	1033.1	1028.6	1024.3	1019.9	1015.4
132.5°	1086.7	1088.2	1088.1	1087.9	1087.8	1087.7	1085.8	1082.3	1078.6	1075.1	1071.5
135°	1165.9	1166.2	1165.5	1164.9	1164.2	1163.5	1161.2	1157.5	1153.9	1150.1	1146.4
137.5°	1242.6	1242.9	1242.0	1241.1	1240.3	1239.4	1237.4	1234.4	1231.3	1228.3	1225.3
140°	1294.0	1294.0	1292.4	1290.7	1289.0	1287.3	1285.0	1281.9	1278.9	1275.8	1272.7
142.5°	1340.6	1340.4	1339.2	1338.1	1336.9	1335.7	1333.6	1330.6	1327.6	1324.5	1321.5
145°	1411.6	1411.3	1409.3	1407.2	1405.2	1403.2	1401.0	1398.6	1396.2	1393.9	1391.5
147.5°	1473.6	1472.8	1471.5	1470.1	1468.7	1467.4	1465.3	1462.5	1459.6	1456.7	1453.9
150°	1512.8	1511.8	1510.5	1509.0	1507.7	1506.3	1504.7	1502.7	1500.7	1498.5	1496.5
152.5°	1552.1	1550.7	1549.1	1547.5	1545.9	1544.3	1542.5	1540.3	1538.3	1536.3	1534.3
155°	1601.7	1600.0	1599.0	1598.0	1597.0	1596.0	1595.0	1594.0	1593.0	1592.0	1590.9
157.5°	1647.4	1645.2	1644.6	1644.0	1643.4	1642.7	1642.0	1641.4	1640.7	1640.0	1639.3
160°	1675.2	1673.1	1672.8	1672.4	1672.1	1671.8	1671.3	1670.6	1669.9	1669.3	1668.6
162.5°	1699.8	1697.5	1697.2	1696.9	1696.5	1696.2	1696.0	1695.8	1695.7	1695.6	1695.4
165°	1731.8	1729.5	1729.5	1729.5	1729.5	1729.5	1729.7	1730.0	1730.3	1730.7	1731.0
167.5°	1758.4	1756.0	1756.1	1756.2	1756.2	1756.3	1756.8	1757.8	1758.8	1759.8	1760.8
170°	1772.9	1770.6	1770.9	1771.3	1771.6	1771.9	1772.6	1773.6	1774.6	1775.6	1776.7
172.5°	1783.9	1781.5	1781.9	1782.2	1782.6	1782.9	1783.6	1784.6	1785.6	1786.7	1787.7
175°	1795.8	1793.4	1794.1	1794.7	1795.4	1796.1	1797.0	1798.0	1799.0	1800.0	1801.0
177.5°	1802.0	1800.4	1801.0	1801.5	1802.0	1802.6	1803.3	1804.1	1804.9	1805.7	1806.5
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1492.3	1493.5	1501.8	1505.4	1512.9	1515.7	1519.0	1518.2	1518.2	1519.8	1531.5
5°	1495.4	1505.7	1521.2	1536.1	1550.5	1563.0	1571.2	1579.4	1582.6	1597.5	1610.9
7.5°	1490.1	1509.0	1534.6	1557.4	1584.7	1606.1	1623.8	1639.8	1650.7	1672.4	1694.8
10°	1483.1	1509.8	1538.7	1568.1	1605.8	1634.1	1662.9	1685.2	1692.3	1724.8	1743.4
12.5°	1469.1	1504.9	1541.7	1579.6	1616.5	1655.6	1687.3	1709.5	1734.8	1764.0	1798.3
15°	1448.0	1489.2	1537.2	1586.2	1638.7	1686.2	1720.2	1758.9	1786.7	1818.7	1848.6
17.5°	1417.7	1470.9	1531.9	1588.5	1649.3	1700.3	1747.1	1784.2	1803.8	1822.0	1826.4
20°	1393.9	1451.1	1522.8	1589.7	1650.6	1709.4	1755.8	1786.7	1791.8	1792.3	1765.0
22.5°	1367.9	1432.5	1507.5	1576.2	1648.9	1714.3	1750.4	1763.6	1743.1	1708.2	1655.4
25°	1320.2	1394.9	1482.1	1560.3	1639.8	1701.6	1714.0	1690.8	1619.1	1543.9	1448.6
27.5°	1268.4	1352.4	1445.8	1533.0	1617.5	1655.9	1629.1	1545.5	1416.4	1304.2	1168.3
30°	1230.5	1324.8	1416.5	1514.0	1592.4	1608.8	1547.5	1424.3	1273.7	1104.7	969.2
32.5°	1187.2	1286.1	1386.8	1487.6	1553.2	1537.1	1435.7	1284.0	1107.6	941.4	813.2
35°	1125.3	1227.4	1336.2	1437.1	1478.9	1409.4	1257.8	1060.4	879.9	724.8	636.6
37.5°	1053.9	1165.0	1278.1	1370.9	1367.9	1251.9	1045.5	841.7	690.0	598.2	535.5
40°	1003.1	1115.5	1237.7	1316.1	1282.5	1131.5	907.8	715.5	604.7	531.5	485.5
42.5°	954.5	1067.2	1188.6	1250.9	1192.7	1006.9	784.1	633.4	542.0	484.8	447.7
45°	871.7	990.8	1103.2	1137.7	1033.6	828.9	634.1	524.7	463.9	421.7	395.9
47.5°	790.7	907.9	1010.5	1011.1	870.2	672.2	534.8	454.1	402.2	369.5	350.7
50°	741.2	852.6	938.7	925.3	765.5	597.9	478.4	408.8	365.5	340.2	320.6
52.5°	685.6	793.7	868.2	830.0	676.8	526.2	427.7	369.2	333.4	311.3	293.9
55°	604.7	700.5	753.2	695.4	552.1	437.7	361.3	315.5	288.7	270.1	255.2
57.5°	525.1	604.3	637.3	570.2	454.7	362.9	305.7	271.2	244.7	231.4	223.6
60°	475.2	542.8	566.0	491.8	395.4	317.5	270.6	238.6	219.0	210.4	202.6
62.5°	426.2	481.4	491.0	422.9	344.7	277.9	237.6	210.7	197.6	189.2	182.0
65°	353.7	393.3	388.7	334.1	272.7	220.7	191.3	174.7	164.9	153.1	140.2
67.5°	291.1	315.4	300.7	259.8	208.1	171.5	152.3	139.8	127.6	116.4	113.4
70°	251.6	265.5	250.0	212.4	170.7	143.8	128.4	113.4	106.2	103.6	99.0
72.5°	213.6	218.4	201.8	169.5	138.9	119.1	104.0	95.6	91.8	89.6	86.6
75°	160.4	156.7	142.3	117.0	96.4	83.0	78.4	75.2	72.7	70.6	69.1
77.5°	112.6	107.3	94.4	78.0	67.2	60.7	58.0	56.2	55.0	54.0	52.5
80°	84.5	80.9	68.1	55.6	51.0	48.0	46.4	44.3	44.3	43.3	41.7
82.5°	61.9	57.9	46.6	40.8	38.3	36.4	35.2	34.0	33.6	33.8	32.7
85°	32.5	26.3	23.2	22.1	20.6	19.6	20.1	19.1	19.1	19.1	18.6
87.5°	11.0	9.8	10.2	10.6	12.1	13.6	14.6	16.2	18.1	17.6	17.8
90°	5.6	9.6	13.7	17.8	23.5	31.0	38.4	45.8	53.3	52.6	51.9
92.5°	30.1	33.0	36.1	39.0	41.4	43.1	44.9	46.7	48.4	48.6	48.7
95°	82.5	85.9	89.3	92.7	94.7	95.4	96.0	96.7	97.5	97.5	97.5
97.5°	147.6	150.6	153.6	156.5	158.6	160.0	161.3	162.5	163.8	163.8	163.8
100°	196.0	198.7	201.5	204.2	206.0	207.0	208.0	209.0	210.1	210.1	210.1
102.5°	246.7	248.8	251.0	253.2	254.9	256.2	257.4	258.7	260.0	260.3	260.5
105°	328.3	329.3	330.3	331.3	332.2	333.0	333.6	334.3	335.0	335.6	336.3
107.5°	412.2	413.7	415.3	416.7	417.5	417.5	417.5	417.5	417.5	417.7	418.0
110°	466.4	468.4	470.4	472.4	473.5	473.5	473.5	473.5	473.5	473.5	473.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	524.8	526.8	528.9	530.9	531.8	531.5	531.3	531.0	530.7	529.9	529.1
115°	611.0	613.0	615.1	617.1	617.7	617.1	616.4	615.7	615.1	614.7	614.4
117.5°	697.5	700.2	703.0	705.7	706.1	704.2	702.3	700.3	698.5	697.7	696.9
120°	754.8	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0	752.0	752.0
122.5°	807.7	810.9	814.2	817.5	818.1	816.3	814.4	812.4	810.5	809.7	808.9
125°	889.1	892.1	895.1	898.3	899.3	898.3	897.3	896.3	895.1	894.1	893.1
127.5°	969.4	973.2	977.1	981.0	982.3	981.1	979.9	978.7	977.4	976.1	974.9
130°	1019.9	1024.3	1028.6	1033.1	1034.9	1034.2	1033.6	1032.9	1032.2	1031.6	1030.9
132.5°	1075.1	1078.6	1082.3	1085.8	1087.7	1087.8	1087.9	1088.1	1088.2	1086.7	1085.3
135°	1150.1	1153.9	1157.5	1161.2	1163.5	1164.2	1164.9	1165.5	1166.2	1165.9	1165.5
137.5°	1228.3	1231.3	1234.4	1237.4	1239.4	1240.3	1241.1	1242.0	1242.9	1242.6	1242.3
140°	1275.8	1278.9	1281.9	1285.0	1287.3	1289.0	1290.7	1292.4	1294.0	1294.0	1294.0
142.5°	1324.5	1327.6	1330.6	1333.6	1335.7	1336.9	1338.1	1339.2	1340.4	1340.6	1340.9
145°	1393.9	1396.2	1398.6	1401.0	1403.2	1405.2	1407.2	1409.3	1411.3	1411.6	1412.0
147.5°	1456.7	1459.6	1462.5	1465.3	1467.4	1468.7	1470.1	1471.5	1472.8	1473.6	1474.3
150°	1498.5	1500.7	1502.7	1504.7	1506.3	1507.7	1509.0	1510.5	1511.8	1512.8	1513.8
152.5°	1536.3	1538.3	1540.3	1542.5	1544.3	1545.9	1547.5	1549.1	1550.7	1552.1	1553.3
155°	1592.0	1593.0	1594.0	1595.0	1596.0	1597.0	1598.0	1599.0	1600.0	1601.7	1603.5
157.5°	1640.0	1640.7	1641.4	1642.0	1642.7	1643.4	1644.0	1644.6	1645.2	1647.4	1649.7
160°	1669.3	1669.9	1670.6	1671.3	1671.8	1672.1	1672.4	1672.8	1673.1	1675.2	1677.2
162.5°	1695.6	1695.7	1695.8	1696.0	1696.2	1696.5	1696.9	1697.2	1697.5	1699.8	1702.1
165°	1730.7	1730.3	1730.0	1729.7	1729.5	1729.5	1729.5	1729.5	1729.5	1731.8	1734.2
167.5°	1759.8	1758.8	1757.8	1756.8	1756.3	1756.2	1756.2	1756.1	1756.0	1758.4	1760.7
170°	1775.6	1774.6	1773.6	1772.6	1771.9	1771.6	1771.3	1770.9	1770.6	1772.9	1775.3
172.5°	1786.7	1785.6	1784.6	1783.6	1782.9	1782.6	1782.2	1781.9	1781.5	1783.9	1786.2
175°	1800.0	1799.0	1798.0	1797.0	1796.1	1795.4	1794.7	1794.1	1793.4	1795.8	1798.2
177.5°	1805.7	1804.9	1804.1	1803.3	1802.6	1802.0	1801.5	1801.0	1800.4	1802.0	1803.7
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1535.5	1540.9	1543.4	1543.4	1546.3	1545.0	1543.8
5°	1623.8	1633.6	1635.7	1645.0	1651.6	1649.5	1650.6
7.5°	1711.5	1727.3	1742.8	1750.0	1751.1	1755.2	1756.8
10°	1765.5	1778.5	1802.7	1799.1	1817.1	1827.5	1810.4
12.5°	1817.6	1834.9	1851.7	1856.3	1866.6	1869.9	1863.2
15°	1864.5	1873.8	1874.8	1872.3	1875.3	1872.8	1863.0
17.5°	1820.6	1805.5	1775.0	1760.6	1749.2	1732.2	1725.5
20°	1748.0	1703.6	1652.1	1631.5	1607.3	1559.8	1571.2
22.5°	1591.3	1540.8	1489.2	1429.1	1400.3	1355.3	1352.6
25°	1347.5	1260.4	1164.5	1097.5	1058.3	1013.5	993.9
27.5°	1047.6	938.0	859.4	819.6	783.5	747.9	746.4
30°	850.5	768.1	707.2	673.3	651.1	636.1	639.2
32.5°	716.9	660.5	619.5	591.2	574.8	563.5	563.3
35°	586.1	547.4	521.2	509.3	497.5	489.2	489.7
37.5°	501.6	478.4	463.7	450.6	443.2	439.2	437.0
40°	458.3	439.2	427.9	420.1	413.9	408.3	407.3
42.5°	424.0	408.3	396.9	390.8	385.1	381.0	380.0
45°	376.3	363.5	353.1	346.4	343.9	340.2	340.2
47.5°	334.8	322.0	314.1	309.8	305.4	303.0	302.9
50°	306.7	296.9	289.7	287.1	283.5	282.0	281.4
52.5°	281.6	274.3	269.1	267.3	265.8	263.8	264.2
55°	247.4	243.3	241.3	239.7	237.1	234.0	236.1
57.5°	218.6	215.2	209.6	204.8	202.4	200.3	201.1
60°	198.4	191.3	184.0	178.3	176.8	172.2	172.2
62.5°	172.9	162.8	153.9	150.8	149.2	147.0	146.6
65°	133.0	128.9	126.8	124.7	123.7	123.7	122.7
67.5°	110.2	108.6	106.3	105.7	104.7	104.4	104.1
70°	97.5	95.3	94.3	93.8	92.8	93.3	91.8
72.5°	85.0	83.4	83.2	81.9	81.2	81.3	80.2
75°	67.1	67.1	66.4	65.9	64.9	64.4	64.9
77.5°	51.5	51.6	50.7	50.6	50.5	50.6	50.1
80°	41.2	41.7	41.2	40.7	40.2	40.7	40.2
82.5°	32.6	31.8	31.7	31.6	31.5	31.2	31.1
85°	18.6	19.1	18.6	18.1	18.1	18.1	18.6
87.5°	17.3	17.2	17.1	17.2	17.3	17.3	17.0
90°	51.3	50.6	50.4	50.8	51.1	51.4	51.8
92.5°	48.8	49.0	49.1	49.1	49.2	49.3	49.3
95°	97.5	97.5	97.0	96.4	95.7	95.0	94.4
97.5°	163.8	163.8	163.8	163.7	163.6	163.6	163.5
100°	210.1	210.1	210.0	209.5	209.2	208.9	208.5
102.5°	260.8	261.2	261.1	260.7	260.4	260.0	259.7
105°	337.0	337.6	338.0	338.0	338.0	338.0	338.0
107.5°	418.3	418.5	417.9	416.4	414.8	413.2	411.6
110°	473.5	473.5	472.9	471.9	470.9	469.9	468.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	528.3	527.5	526.6	525.9	525.2	524.4	523.7
115°	614.0	613.7	613.0	612.0	611.0	610.0	608.9
117.5°	696.1	695.3	694.3	693.3	692.3	691.3	690.2
120°	752.0	752.0	751.5	750.5	749.5	748.5	747.5
122.5°	808.1	807.3	806.5	805.8	805.1	804.3	803.5
125°	892.1	891.1	890.5	890.1	889.8	889.5	889.1
127.5°	973.7	972.5	971.4	970.3	969.2	968.2	967.0
130°	1030.2	1029.5	1028.4	1027.1	1025.8	1024.4	1023.1
132.5°	1083.8	1082.3	1081.0	1079.9	1078.8	1077.7	1076.6
135°	1165.2	1164.9	1164.2	1163.2	1162.2	1161.1	1160.1
137.5°	1242.1	1241.8	1241.0	1239.7	1238.3	1237.0	1235.6
140°	1294.0	1294.0	1293.4	1292.0	1290.7	1289.3	1288.0
142.5°	1341.2	1341.4	1340.9	1339.6	1338.2	1336.9	1335.4
145°	1412.3	1412.6	1412.1	1410.8	1409.5	1408.1	1406.7
147.5°	1475.0	1475.8	1475.5	1474.2	1472.9	1471.7	1470.4
150°	1514.8	1515.8	1515.8	1514.8	1513.8	1512.8	1511.8
152.5°	1554.6	1555.9	1555.9	1554.6	1553.3	1552.1	1550.7
155°	1605.2	1606.8	1607.2	1606.2	1605.2	1604.2	1603.2
157.5°	1652.0	1654.4	1654.7	1653.0	1651.4	1649.8	1648.2
160°	1679.2	1681.2	1681.6	1680.2	1678.9	1677.6	1676.2
162.5°	1704.5	1706.7	1707.1	1705.5	1703.8	1702.2	1700.5
165°	1736.6	1739.0	1739.3	1737.6	1736.0	1734.2	1732.5
167.5°	1763.1	1765.4	1765.7	1764.0	1762.2	1760.5	1758.7
170°	1777.7	1780.1	1780.2	1778.2	1776.2	1774.1	1772.1
172.5°	1788.7	1791.0	1791.2	1789.2	1787.2	1785.1	1783.1
175°	1800.5	1802.9	1803.1	1801.0	1799.0	1797.0	1794.9
177.5°	1805.3	1807.0	1807.0	1805.3	1803.7	1802.0	1800.4
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1

(END OF REPORT)