

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: P332467-940

Luminaire Tested: **S123RDIW-S1000D1535U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332467-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S1000D1535U940-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

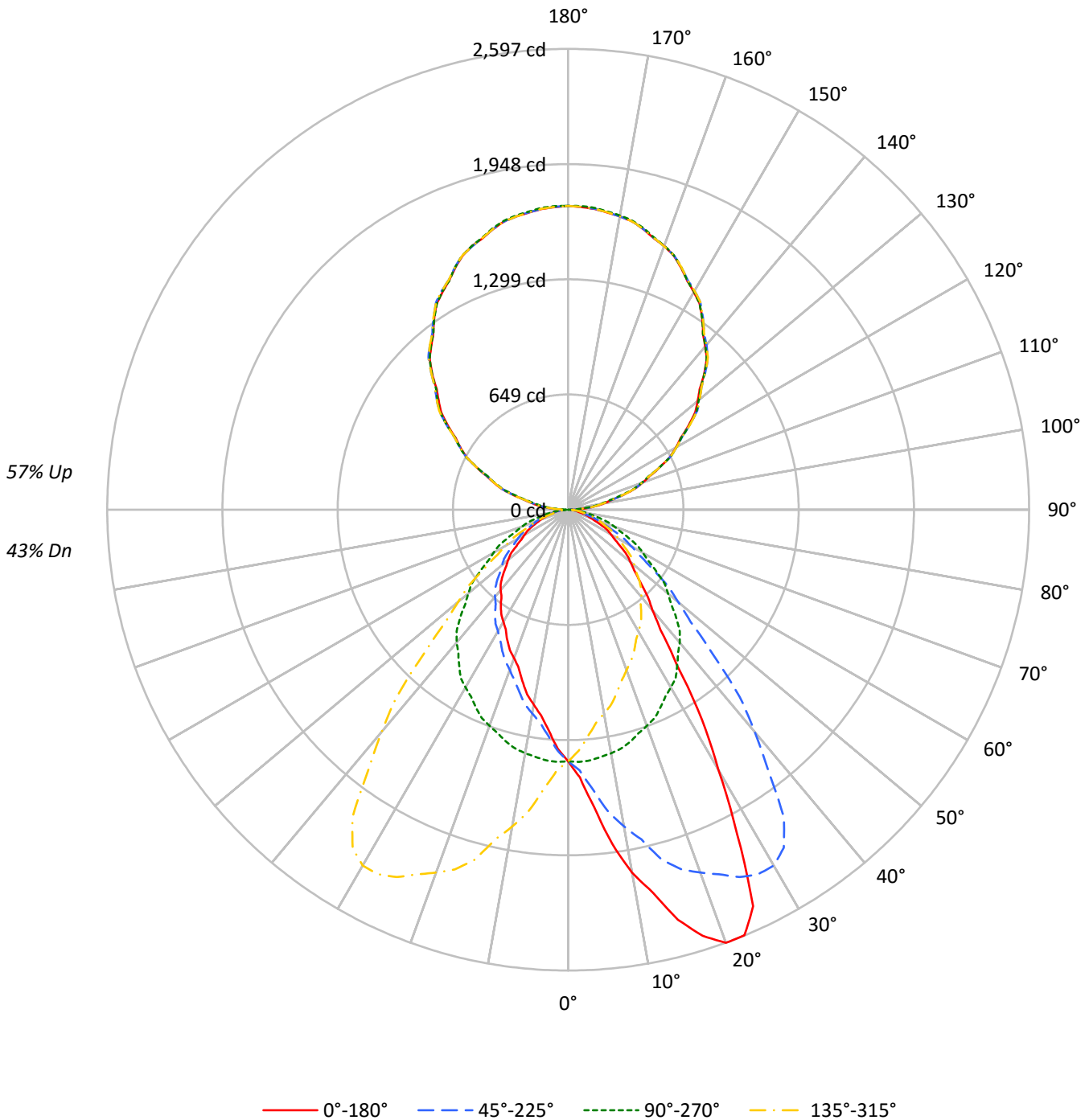
Lumens per Lamp: N/A  
Luminaire Lumens: 8277.2 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	44	43	37
2	88	81	76	71	81	75	70	65	62	59	55	50	48	46	40	38	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	27	24	21
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	22	20	18	15
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13

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

	0°	90°	180°	270°
0°	15259	15259	15259	15259
5°	18189	15324	13493	15324
10°	22710	15235	12191	15235
15°	26658	15081	11117	15081
20°	29751	14848	10204	14848
25°	29276	14602	9644	14602
30°	21044	14375	9066	14375
35°	14051	14082	8692	14082
40°	10352	13728	8304	13728
45°	8683	13108	7926	13108
50°	7661	12295	7398	12295
55°	6718	11365	6673	11365
60°	5983	10478	6114	10478
65°	5254	9521	5687	9521
70°	4126	8670	5196	8670
75°	3635	7573	4741	7573
80°	3161	6434	4668	6434
85°	2544	5175	4940	5175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.4	1.7
10°-20°	435.5	5.3
20°-30°	684.2	8.3
30°-40°	713.8	8.6
40°-50°	610.9	7.4
50°-60°	465.6	5.6
60°-70°	298.4	3.6
70°-80°	143.6	1.7
80°-90°	43.1	0.5
90°-100°	111.5	1.3
100°-110°	333.8	4.0
110°-120°	567.7	6.9
120°-130°	746.7	9.0
130°-140°	839.3	10.1
140°-150°	825.0	10.0
150°-160°	694.5	8.4
160°-170°	462.3	5.6
170°-180°	161.9	2.0
0°-30°	1259.1	15.2
0°-40°	1973.0	23.8
0°-60°	3049.5	36.8
0°-90°	3534.6	42.7
90°-120°	1013.0	12.2
90°-150°	3423.9	41.4
90°-180°	4743.0	57.3
0°-180°	8277.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1683	1418	1249	1418	1683	174
15°	2392	1353	998	1353	2392	678
25°	2465	1230	812	1230	2465	1059
35°	1069	1072	662	1072	1069	701
45°	570	861	521	861	570	449
55°	358	606	356	606	358	324
65°	206	374	223	374	206	203
75°	87	182	114	182	87	94
85°	21	42	40	42	21	25
90°	40	1	40	1	40	20
95°	105	79	105	79	105	108
105°	320	303	320	303	320	340
115°	573	572	573	572	573	567
125°	827	836	827	836	827	739
135°	1084	1085	1084	1085	1084	833
145°	1316	1316	1316	1316	1316	822
155°	1505	1507	1505	1507	1505	693
165°	1636	1642	1636	1642	1636	462
175°	1701	1708	1701	1708	1701	162
180°	1712	1712	1712	1712	1712	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1509.8	1511.7	1505.5	1504.5	1497.2	1495.2	1495.2	1485.1	1478.7	1470.5	1465.6
5°	1683.4	1693.1	1688.2	1677.3	1659.1	1654.8	1643.3	1625.1	1604.5	1579.0	1566.8
7.5°	1900.1	1913.3	1908.3	1891.4	1872.3	1856.9	1824.4	1794.2	1751.9	1714.7	1682.9
10°	2077.8	2063.9	2052.9	2036.6	2018.9	1990.4	1956.4	1909.7	1855.7	1813.2	1765.9
12.5°	2210.8	2208.5	2194.7	2177.8	2152.9	2125.8	2084.1	2027.2	1964.4	1903.1	1848.9
15°	2392.2	2395.8	2386.7	2369.1	2333.9	2286.0	2222.9	2199.2	2109.3	2042.6	1975.9
17.5°	2517.7	2516.9	2515.7	2491.4	2455.4	2421.3	2362.8	2300.5	2219.2	2125.1	2035.2
20°	2597.3	2591.2	2592.4	2565.1	2538.4	2498.9	2442.0	2351.5	2284.7	2176.1	2083.3
22.5°	2595.3	2594.1	2598.7	2589.3	2570.0	2539.8	2494.8	2418.5	2333.3	2223.7	2119.2
25°	2465.0	2460.1	2488.7	2496.5	2527.5	2532.9	2519.6	2477.7	2397.0	2284.1	2154.9
27.5°	2063.0	2060.3	2113.3	2179.5	2263.5	2328.8	2391.9	2422.4	2397.0	2316.2	2186.7
30°	1693.1	1750.2	1776.8	1872.7	1979.5	2106.9	2218.6	2324.8	2350.9	2315.7	2209.5
32.5°	1405.7	1455.5	1477.7	1560.0	1659.6	1808.8	1976.4	2126.7	2232.9	2259.9	2195.9
35°	1069.3	1069.9	1120.8	1157.3	1249.5	1403.0	1565.7	1767.1	1967.4	2119.1	2134.8
37.5°	853.2	856.2	887.1	923.4	992.6	1073.7	1216.9	1384.5	1615.8	1848.7	1985.2
40°	736.7	742.2	765.3	801.0	850.8	912.0	1023.8	1181.5	1374.5	1633.6	1845.4
42.5°	661.9	670.8	682.7	710.2	741.1	798.4	888.8	1010.7	1186.2	1431.2	1675.5
45°	570.4	575.2	584.4	597.1	625.0	665.1	725.8	807.7	953.3	1150.6	1395.1
47.5°	503.2	500.6	510.2	520.6	539.1	566.4	607.1	674.0	777.8	936.1	1143.5
50°	457.5	456.9	463.6	471.5	489.1	509.2	542.5	592.9	675.4	806.5	996.4
52.5°	414.8	417.1	421.9	431.7	444.4	460.6	490.5	526.8	597.7	710.9	869.2
55°	358.0	359.9	366.5	372.0	381.1	397.4	416.3	446.7	495.2	574.1	704.5
57.5°	310.0	309.2	315.6	316.9	327.2	340.5	355.1	378.7	413.8	472.5	560.4
60°	277.9	276.1	281.6	285.8	291.3	302.2	314.3	337.4	365.3	408.4	483.7
62.5°	248.8	248.0	252.0	256.2	260.7	270.6	280.9	298.5	320.7	357.0	416.7
65°	206.3	208.1	210.0	211.8	214.2	220.3	230.0	242.1	257.3	282.8	325.8
67.5°	162.1	164.0	164.6	168.4	173.5	177.4	183.2	194.0	204.6	226.1	250.7
70°	131.1	130.5	131.1	132.9	139.6	146.2	154.2	162.0	168.7	183.9	204.5
72.5°	112.6	111.6	113.2	113.5	116.7	118.6	123.6	131.0	139.6	149.9	164.7
75°	87.4	87.4	87.4	87.4	89.8	91.0	92.8	94.7	97.7	102.5	113.5
77.5°	64.6	64.6	65.5	66.2	66.6	67.3	68.5	70.3	71.3	73.9	78.6
80°	51.0	51.5	51.0	51.5	51.5	52.8	53.4	55.2	55.8	58.9	60.7
82.5°	38.3	38.0	38.3	39.0	39.0	40.2	40.3	41.6	41.7	43.3	45.1
85°	20.6	19.4	20.6	20.1	21.2	20.1	20.6	21.8	21.8	22.5	24.9
87.5°	12.9	13.7	12.7	13.0	12.9	13.2	13.0	12.8	13.5	12.8	12.5
90°	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7	33.4	32.3	28.4
92.5°	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5	52.6	51.6	49.4
95°	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9	100.7	99.5	97.1
97.5°	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5	157.1	155.7	154.0
100°	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5	198.6	197.7	196.2
102.5°	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8	245.9	245.0	243.0
105°	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4	317.4	317.4	314.7
107.5°	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8	392.8	391.8	390.7
110°	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8	443.6	442.4	441.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8	494.4	492.9	492.8
115°	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5	573.1	572.8	573.5
117.5°	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8	651.8	651.9	652.6
120°	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0	704.3	704.6	706.1
122.5°	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8	757.6	758.4	759.2
125°	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4	836.5	837.8	838.3
127.5°	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9	914.5	916.2	916.9
130°	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4	965.6	966.8	967.7
132.5°	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5	1015.9	1017.4	1018.0
135°	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5	1090.7	1091.9	1092.2
137.5°	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8	1164.0	1165.3	1164.5
140°	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2
142.5°	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2	1256.4	1256.7	1256.2
145°	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5	1322.9	1323.1	1322.2
147.5°	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0	1424.0	1424.0	1423.3
152.5°	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4	1458.9	1458.4	1458.0
155°	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1	1509.9	1508.7	1508.4
157.5°	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6	1554.3	1553.1	1552.8
160°	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0	1581.4	1579.9	1579.9
162.5°	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7	1607.3	1605.8	1605.5
165°	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4	1639.6	1637.8	1637.8
167.5°	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1	1663.9
170°	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1	1678.1
172.5°	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6	1691.8	1690.0	1690.0
175°	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9	1704.1	1702.4	1702.4
177.5°	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4	1709.9	1708.5	1708.5
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1463.7	1462.2	1455.5	1447.7	1437.4	1430.7	1425.3	1422.5	1413.7	1403.0	1395.7
5°	1554.1	1535.9	1516.5	1492.8	1471.0	1448.5	1434.6	1418.2	1398.1	1375.7	1359.9
7.5°	1651.0	1615.2	1576.8	1537.1	1497.9	1462.8	1431.6	1405.1	1373.1	1341.0	1318.4
10°	1725.3	1673.0	1619.1	1563.8	1513.4	1466.2	1429.7	1393.9	1355.7	1318.7	1290.8
12.5°	1792.7	1724.0	1661.8	1593.9	1529.5	1472.9	1420.5	1378.4	1332.4	1292.9	1261.1
15°	1878.1	1807.8	1732.5	1629.3	1543.8	1472.2	1408.5	1353.3	1297.4	1248.8	1217.9
17.5°	1958.0	1852.1	1751.0	1664.9	1553.7	1464.3	1386.5	1320.4	1259.2	1207.7	1169.7
20°	1991.0	1888.5	1778.6	1668.8	1559.6	1459.5	1369.0	1296.2	1232.5	1174.2	1139.1
22.5°	2010.9	1894.8	1779.1	1661.1	1545.0	1441.0	1351.6	1271.5	1202.4	1147.0	1103.6
25°	2034.1	1895.8	1768.4	1651.8	1533.5	1420.6	1314.4	1229.5	1154.9	1095.9	1049.8
27.5°	2049.4	1886.7	1736.1	1606.5	1486.5	1374.1	1276.8	1186.7	1111.0	1048.7	999.3
30°	2052.4	1879.4	1711.3	1571.1	1449.1	1345.9	1242.8	1156.6	1076.6	1010.4	964.3
32.5°	2056.2	1861.4	1677.8	1528.8	1404.0	1301.8	1208.4	1126.1	1044.0	978.8	931.7
35°	2040.2	1851.5	1626.9	1455.8	1330.8	1231.9	1147.5	1071.7	991.0	927.8	879.9
37.5°	1971.2	1812.0	1574.2	1373.5	1242.8	1151.2	1082.4	1016.4	942.3	874.2	829.0
40°	1901.8	1773.2	1533.5	1323.5	1187.0	1092.9	1031.0	977.0	905.4	841.7	793.2
42.5°	1798.4	1720.3	1494.7	1271.0	1123.8	1033.2	981.0	930.4	867.5	802.8	757.2
45°	1608.7	1619.1	1415.1	1187.6	1036.4	945.5	896.3	861.1	805.3	751.9	705.2
47.5°	1370.8	1467.3	1321.8	1098.6	944.3	858.9	815.9	785.2	747.6	695.2	652.6
50°	1215.5	1353.3	1247.1	1038.9	886.6	801.6	759.1	734.2	701.5	660.2	619.6
52.5°	1072.3	1220.2	1156.7	972.4	823.9	746.3	704.8	684.3	658.3	619.5	582.6
55°	874.4	1024.3	1009.8	872.0	730.0	660.2	628.7	605.6	588.0	558.9	529.8
57.5°	707.3	849.4	856.9	760.4	647.3	578.3	551.2	533.8	522.3	500.2	473.3
60°	602.0	732.5	758.0	685.1	588.0	527.4	500.6	486.7	477.6	459.9	439.3
62.5°	514.6	625.6	654.5	602.1	531.2	474.4	453.5	440.1	433.9	418.7	400.6
65°	393.9	486.1	514.0	484.8	447.8	402.3	385.3	373.8	368.4	359.9	346.5
67.5°	296.1	363.4	394.0	373.4	360.1	331.4	320.6	314.3	309.5	303.6	292.5
70°	237.9	287.7	319.2	313.7	302.8	287.7	279.7	275.5	270.6	265.8	256.1
72.5°	191.3	225.5	255.1	257.9	249.0	245.9	239.0	237.2	234.3	228.5	223.1
75°	126.8	150.5	171.1	179.1	182.6	185.7	182.6	182.1	181.5	176.6	173.5
77.5°	83.1	95.9	108.9	122.3	128.0	132.2	133.1	135.4	133.8	131.2	129.7
80°	63.8	66.8	75.9	87.4	96.5	100.1	102.5	103.8	103.2	102.5	100.1
82.5°	46.3	48.8	53.1	61.2	68.8	74.9	76.3	76.1	77.4	77.8	75.9
85°	24.9	25.5	26.7	27.9	32.2	38.9	40.7	41.9	43.1	43.1	39.4
87.5°	12.7	11.4	11.6	10.9	11.8	11.7	14.0	15.8	16.9	15.5	16.1
90°	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3	4.4	7.3	10.3
92.5°	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5	34.6	36.6	38.6
95°	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4	81.4	83.6	85.6
97.5°	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9	142.5	144.0	145.6
100°	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9	184.7	186.5	188.2
102.5°	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3	232.4	233.4	234.5
105°	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6	303.2	303.7	304.3
107.5°	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4	385.8	386.1	386.5
110°	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0	437.7	438.2	438.8





TEST NUMBER: P332467-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8	491.2	491.5	491.9
115°	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5	572.4	573.3	574.2
117.5°	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7	653.3	653.9	654.5
120°	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3	705.1	706.9	708.6
122.5°	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0	757.2	758.6	759.9
125°	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3	837.2	838.2	839.1
127.5°	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6	912.5	914.4	916.3
130°	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1	962.5	964.8	967.2
132.5°	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6	1011.9	1014.3	1016.7
135°	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1	1086.9	1088.7	1090.5
137.5°	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0	1156.5	1158.1	1159.6
140°	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5	1205.0	1206.5	1207.9
142.5°	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6	1249.0	1250.5	1252.1
145°	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4	1317.1	1317.6	1318.2
147.5°	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6	1377.7	1378.8	1379.9
150°	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6	1419.2	1419.8	1420.4
152.5°	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0	1453.8	1454.7	1455.5
155°	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6	1553.3	1552.9	1552.6
160°	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7	1582.1	1581.4	1580.8
162.5°	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5	1607.7	1606.8	1606.0
165°	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8	1640.9	1640.0	1639.1
167.5°	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5	1667.2	1666.1	1664.8
170°	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5	1682.3	1681.1	1679.9
172.5°	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3	1694.2	1692.9	1691.8
175°	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7	1706.6	1705.3	1704.1
177.5°	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8	1711.9	1710.9	1709.9
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1393.3	1387.0	1382.6	1372.9	1366.6	1359.8	1353.0	1357.4	1356.9	1356.4	1356.4
5°	1346.6	1332.6	1319.9	1303.5	1293.2	1280.4	1270.7	1269.5	1271.9	1263.5	1258.6
7.5°	1300.2	1281.1	1263.1	1245.0	1225.8	1210.5	1201.0	1196.4	1190.3	1185.0	1179.6
10°	1267.7	1245.3	1227.6	1205.1	1184.5	1166.4	1154.9	1146.9	1142.6	1138.4	1130.5
12.5°	1234.2	1212.2	1189.8	1164.4	1144.8	1123.6	1115.0	1106.2	1098.1	1093.2	1082.4
15°	1185.2	1156.6	1133.0	1106.3	1084.4	1063.8	1051.7	1034.0	1031.6	1025.6	1014.7
17.5°	1136.0	1105.0	1072.4	1052.7	1028.0	1006.5	988.0	982.1	964.7	958.2	948.7
20°	1097.2	1068.6	1043.7	1017.7	981.9	961.8	947.3	939.4	925.4	916.9	910.9
22.5°	1063.6	1034.7	1005.9	975.4	945.9	923.5	912.8	900.5	892.9	881.0	874.4
25°	1015.8	984.3	949.7	916.9	895.7	878.7	861.7	850.8	839.9	834.4	822.2
27.5°	960.3	927.3	894.9	870.0	844.0	827.2	811.8	802.1	789.0	779.8	773.1
30°	929.7	890.8	862.9	840.4	807.1	791.3	779.8	767.7	758.0	748.2	741.5
32.5°	894.2	858.8	832.3	804.6	778.9	761.7	746.8	736.1	727.8	718.6	711.9
35°	838.7	809.0	781.6	753.7	734.9	717.3	699.7	690.5	682.7	674.2	668.2
37.5°	788.4	760.6	734.7	708.2	684.8	670.6	656.4	649.4	638.7	633.0	626.9
40°	757.3	730.0	702.1	676.6	652.4	641.4	628.7	618.4	608.7	604.4	597.7
42.5°	723.4	696.1	672.5	645.1	625.2	610.4	598.6	587.3	580.1	573.8	570.1
45°	673.0	648.7	625.6	598.3	579.5	566.8	553.4	543.1	536.5	532.2	525.5
47.5°	624.1	599.8	576.4	552.6	534.4	519.8	506.5	499.3	490.4	485.3	480.7
50°	588.6	566.8	541.9	520.0	501.9	487.3	476.4	467.3	459.4	452.7	449.7
52.5°	556.1	532.8	511.3	491.0	471.7	455.2	445.3	435.7	429.8	422.1	418.6
55°	502.5	480.0	461.8	441.8	422.9	409.0	396.9	388.3	382.3	373.8	369.0
57.5°	452.1	431.9	410.2	392.9	373.4	361.7	351.6	340.1	332.7	326.0	321.3
60°	418.1	395.0	376.2	359.9	342.9	327.7	318.6	309.5	301.6	294.9	290.7
62.5°	382.6	362.6	344.6	326.8	311.3	298.1	287.5	279.9	273.0	268.7	264.5
65°	328.3	312.5	294.4	279.7	265.2	255.5	247.0	240.3	235.4	232.4	228.8
67.5°	278.3	263.0	247.1	232.8	223.1	215.7	210.1	204.4	202.0	198.0	195.6
70°	245.8	230.0	216.1	205.1	195.4	189.9	186.3	182.1	179.6	174.8	172.4
72.5°	210.4	198.9	188.9	179.9	172.1	167.1	162.5	157.3	153.4	148.0	145.6
75°	165.7	155.3	147.5	141.4	136.5	129.8	123.1	117.7	115.9	114.0	113.5
77.5°	122.7	116.2	110.5	105.3	99.2	94.4	93.0	91.8	91.4	90.4	90.4
80°	96.5	90.4	86.1	80.1	76.4	76.4	76.4	75.3	75.9	75.9	75.9
82.5°	71.7	66.2	63.8	61.6	60.9	61.4	61.4	61.6	61.3	62.2	61.8
85°	37.0	37.6	38.9	38.3	38.9	38.9	40.0	39.4	40.0	38.9	40.0
87.5°	16.2	18.4	19.6	21.0	22.2	22.5	23.2	23.5	24.2	24.4	24.6
90°	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7	35.8	37.1	38.0
92.5°	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5	54.5	55.5	55.7
95°	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9	103.1	104.2	104.9
97.5°	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5	159.8	161.2	161.8
100°	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5	200.4	201.3	202.0
102.5°	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8	247.7	248.6	249.0
105°	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4	317.4	317.4	317.6
107.5°	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8	394.7	395.7	395.9
110°	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8	445.9	447.2	447.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8	497.2	498.6	499.4
115°	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5	573.7	574.0	574.0
117.5°	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8	651.8	651.7	651.2
120°	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0	703.7	703.4	702.9
122.5°	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8	756.1	755.3	754.5
125°	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4	834.1	832.9	831.7
127.5°	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9	911.2	909.5	908.0
130°	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4	963.2	962.1	960.4
132.5°	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5	1013.1	1011.6	1010.1
135°	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5	1088.2	1087.1	1086.2
137.5°	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8	1161.5	1160.3	1159.0
140°	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.2
142.5°	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2	1255.8	1255.5	1254.5
145°	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5	1322.2	1322.0	1321.2
147.5°	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0	1424.0	1424.0	1423.1
152.5°	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4	1459.8	1460.4	1459.8
155°	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1	1512.3	1513.5	1513.1
157.5°	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6	1556.8	1558.1	1557.9
160°	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0	1584.5	1585.9	1586.1
162.5°	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7	1610.3	1611.8	1611.6
165°	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4	1643.2	1644.9	1644.8
167.5°	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5
170°	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5
172.5°	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6	1695.5	1697.4	1697.3
175°	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9	1707.7	1709.5	1709.3
177.5°	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4	1712.8	1714.2	1714.1
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1350.6	1350.1	1350.6	1348.6	1350.6	1350.1	1350.6	1356.4	1356.4	1356.9	1357.4
5°	1256.8	1256.2	1254.4	1248.8	1254.4	1256.2	1256.8	1258.6	1263.5	1271.9	1269.5
7.5°	1174.8	1174.0	1168.7	1168.8	1168.7	1174.0	1174.8	1179.6	1185.0	1190.3	1196.4
10°	1126.3	1126.9	1119.6	1115.4	1119.6	1126.9	1126.3	1130.5	1138.4	1142.6	1146.9
12.5°	1079.2	1076.4	1070.6	1065.9	1070.6	1076.4	1079.2	1082.4	1093.2	1098.1	1106.2
15°	1017.1	1011.0	996.4	997.6	996.4	1011.0	1017.1	1014.7	1025.6	1031.6	1034.0
17.5°	943.9	939.4	939.1	930.7	939.1	939.4	943.9	948.7	958.2	964.7	982.1
20°	901.2	898.1	899.3	890.8	899.3	898.1	901.2	910.9	916.9	925.4	939.4
22.5°	867.6	864.6	859.5	856.8	859.5	864.6	867.6	874.4	881.0	892.9	900.5
25°	818.6	813.8	809.0	812.0	809.0	813.8	818.6	822.2	834.4	839.9	850.8
27.5°	769.6	766.0	761.1	760.5	761.1	766.0	769.6	773.1	779.8	789.0	802.1
30°	738.5	734.9	732.5	729.4	732.5	734.9	738.5	741.5	748.2	758.0	767.7
32.5°	706.9	706.2	701.9	701.2	701.9	706.2	706.9	711.9	718.6	727.8	736.1
35°	665.7	662.1	660.8	661.5	660.8	662.1	665.7	668.2	674.2	682.7	690.5
37.5°	626.5	621.6	619.5	617.2	619.5	621.6	626.5	626.9	633.0	638.7	649.4
40°	598.3	593.5	592.3	591.0	592.3	593.5	598.3	597.7	604.4	608.7	618.4
42.5°	566.8	564.8	564.1	562.0	564.1	564.8	566.8	570.1	573.8	580.1	587.3
45°	523.7	523.1	519.4	520.7	519.4	523.1	523.7	525.5	532.2	536.5	543.1
47.5°	478.3	475.6	473.1	474.7	473.1	475.6	478.3	480.7	485.3	490.4	499.3
50°	447.3	446.0	440.6	441.8	440.6	446.0	447.3	449.7	452.7	459.4	467.3
52.5°	416.2	411.5	409.5	408.8	409.5	411.5	416.2	418.6	422.1	429.8	435.7
55°	364.7	359.3	356.9	355.6	356.9	359.3	364.7	369.0	373.8	382.3	388.3
57.5°	314.2	312.7	310.9	312.2	310.9	312.7	314.2	321.3	326.0	332.7	340.1
60°	284.6	284.6	284.6	284.0	284.6	284.6	284.6	290.7	294.9	301.6	309.5
62.5°	261.8	260.3	259.8	260.7	259.8	260.3	261.8	264.5	268.7	273.0	279.9
65°	226.9	226.3	223.9	223.3	223.9	226.3	226.9	228.8	232.4	235.4	240.3
67.5°	194.0	191.9	191.2	190.3	191.2	191.9	194.0	195.6	198.0	202.0	204.4
70°	169.3	168.1	164.4	165.1	164.4	168.1	169.3	172.4	174.8	179.6	182.1
72.5°	142.6	141.4	140.6	139.8	140.6	141.4	142.6	145.6	148.0	153.4	157.3
75°	112.9	112.3	111.6	114.0	111.6	112.3	112.9	113.5	114.0	115.9	117.7
77.5°	90.4	90.4	90.8	89.8	90.8	90.4	90.4	90.4	90.4	91.4	91.8
80°	75.9	75.9	75.3	75.3	75.3	75.9	75.9	75.9	75.9	75.9	75.3
82.5°	60.8	61.3	61.6	60.7	61.6	61.3	60.8	61.8	62.2	61.3	61.6
85°	40.0	39.4	40.7	40.0	40.7	39.4	40.0	40.0	38.9	40.0	39.4
87.5°	25.7	24.8	25.0	25.5	25.0	24.8	25.7	24.6	24.4	24.2	23.5
90°	38.5	39.1	39.8	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7
92.5°	55.4	55.0	54.7	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5
95°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9
97.5°	161.8	161.6	161.5	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5
100°	202.6	203.2	203.8	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5
102.5°	248.9	248.7	248.6	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8
105°	318.3	318.9	319.4	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4
107.5°	395.6	395.2	394.8	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8
110°	446.8	446.3	445.7	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	499.3	499.1	499.0	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8
115°	573.7	573.5	573.1	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5
117.5°	650.3	649.5	648.7	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8
120°	702.4	701.8	701.2	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0
122.5°	753.7	752.8	752.0	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8
125°	830.5	829.4	828.1	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4
127.5°	906.7	905.3	903.9	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9
130°	958.3	956.2	954.1	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4
132.5°	1008.5	1006.9	1005.2	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5
135°	1085.6	1084.9	1084.4	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5
137.5°	1157.9	1156.8	1155.7	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8
140°	1207.0	1205.0	1202.8	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9
142.5°	1252.9	1251.3	1249.7	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2
145°	1320.0	1318.8	1317.6	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5
147.5°	1382.6	1380.8	1378.9	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3
150°	1421.3	1419.5	1417.7	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0
152.5°	1458.2	1456.7	1455.1	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4
155°	1510.9	1508.9	1506.7	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1
157.5°	1556.2	1554.5	1552.8	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6
160°	1584.9	1583.7	1582.5	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0
162.5°	1609.6	1607.8	1605.8	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7
165°	1642.7	1640.7	1638.5	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4
167.5°	1669.7	1667.9	1666.0	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9
170°	1684.4	1682.3	1680.3	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3
172.5°	1695.1	1693.1	1691.0	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6
175°	1707.3	1705.1	1703.1	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9
177.5°	1712.4	1710.7	1709.1	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1353.0	1359.8	1366.6	1372.9	1382.6	1387.0	1393.3	1395.7	1403.0	1413.7	1422.5
5°	1270.7	1280.4	1293.2	1303.5	1319.9	1332.6	1346.6	1359.9	1375.7	1398.1	1418.2
7.5°	1201.0	1210.5	1225.8	1245.0	1263.1	1281.1	1300.2	1318.4	1341.0	1373.1	1405.1
10°	1154.9	1166.4	1184.5	1205.1	1227.6	1245.3	1267.7	1290.8	1318.7	1355.7	1393.9
12.5°	1115.0	1123.6	1144.8	1164.4	1189.8	1212.2	1234.2	1261.1	1292.9	1332.4	1378.4
15°	1051.7	1063.8	1084.4	1106.3	1133.0	1156.6	1185.2	1217.9	1248.8	1297.4	1353.3
17.5°	988.0	1006.5	1028.0	1052.7	1072.4	1105.0	1136.0	1169.7	1207.7	1259.2	1320.4
20°	947.3	961.8	981.9	1017.7	1043.7	1068.6	1097.2	1139.1	1174.2	1232.5	1296.2
22.5°	912.8	923.5	945.9	975.4	1005.9	1034.7	1063.6	1103.6	1147.0	1202.4	1271.5
25°	861.7	878.7	895.7	916.9	949.7	984.3	1015.8	1049.8	1095.9	1154.9	1229.5
27.5°	811.8	827.2	844.0	870.0	894.9	927.3	960.3	999.3	1048.7	1111.0	1186.7
30°	779.8	791.3	807.1	840.4	862.9	890.8	929.7	964.3	1010.4	1076.6	1156.6
32.5°	746.8	761.7	778.9	804.6	832.3	858.8	894.2	931.7	978.8	1044.0	1126.1
35°	699.7	717.3	734.9	753.7	781.6	809.0	838.7	879.9	927.8	991.0	1071.7
37.5°	656.4	670.6	684.8	708.2	734.7	760.6	788.4	829.0	874.2	942.3	1016.4
40°	628.7	641.4	652.4	676.6	702.1	730.0	757.3	793.2	841.7	905.4	977.0
42.5°	598.6	610.4	625.2	645.1	672.5	696.1	723.4	757.2	802.8	867.5	930.4
45°	553.4	566.8	579.5	598.3	625.6	648.7	673.0	705.2	751.9	805.3	861.1
47.5°	506.5	519.8	534.4	552.6	576.4	599.8	624.1	652.6	695.2	747.6	785.2
50°	476.4	487.3	501.9	520.0	541.9	566.8	588.6	619.6	660.2	701.5	734.2
52.5°	445.3	455.2	471.7	491.0	511.3	532.8	556.1	582.6	619.5	658.3	684.3
55°	396.9	409.0	422.9	441.8	461.8	480.0	502.5	529.8	558.9	588.0	605.6
57.5°	351.6	361.7	373.4	392.9	410.2	431.9	452.1	473.3	500.2	522.3	533.8
60°	318.6	327.7	342.9	359.9	376.2	395.0	418.1	439.3	459.9	477.6	486.7
62.5°	287.5	298.1	311.3	326.8	344.6	362.6	382.6	400.6	418.7	433.9	440.1
65°	247.0	255.5	265.2	279.7	294.4	312.5	328.3	346.5	359.9	368.4	373.8
67.5°	210.1	215.7	223.1	232.8	247.1	263.0	278.3	292.5	303.6	309.5	314.3
70°	186.3	189.9	195.4	205.1	216.1	230.0	245.8	256.1	265.8	270.6	275.5
72.5°	162.5	167.1	172.1	179.9	188.9	198.9	210.4	223.1	228.5	234.3	237.2
75°	123.1	129.8	136.5	141.4	147.5	155.3	165.7	173.5	176.6	181.5	182.1
77.5°	93.0	94.4	99.2	105.3	110.5	116.2	122.7	129.7	131.2	133.8	135.4
80°	76.4	76.4	76.4	80.1	86.1	90.4	96.5	100.1	102.5	103.2	103.8
82.5°	61.4	61.4	60.9	61.6	63.8	66.2	71.7	75.9	77.8	77.4	76.1
85°	40.0	38.9	38.9	38.3	38.9	37.6	37.0	39.4	43.1	43.1	41.9
87.5°	23.2	22.5	22.2	21.0	19.6	18.4	16.2	16.1	15.5	16.9	15.8
90°	33.4	32.3	28.4	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3
92.5°	52.6	51.6	49.4	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5
95°	100.7	99.5	97.1	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4
97.5°	157.1	155.7	154.0	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9
100°	198.6	197.7	196.2	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9
102.5°	245.9	245.0	243.0	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3
105°	317.4	317.4	314.7	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6
107.5°	392.8	391.8	390.7	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4
110°	443.6	442.4	441.8	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.4	492.9	492.8	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8
115°	573.1	572.8	573.5	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5
117.5°	651.8	651.9	652.6	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7
120°	704.3	704.6	706.1	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3
122.5°	757.6	758.4	759.2	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0
125°	836.5	837.8	838.3	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3
127.5°	914.5	916.2	916.9	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6
130°	965.6	966.8	967.7	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1
132.5°	1015.9	1017.4	1018.0	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6
135°	1090.7	1091.9	1092.2	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1
137.5°	1164.0	1165.3	1164.5	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0
140°	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5
142.5°	1256.4	1256.7	1256.2	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6
145°	1322.9	1323.1	1322.2	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4
147.5°	1385.3	1385.3	1384.4	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6
150°	1424.0	1424.0	1423.3	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6
152.5°	1458.9	1458.4	1458.0	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0
155°	1509.9	1508.7	1508.4	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1554.3	1553.1	1552.8	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6
160°	1581.4	1579.9	1579.9	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7
162.5°	1607.3	1605.8	1605.5	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5
165°	1639.6	1637.8	1637.8	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8
167.5°	1666.0	1664.1	1663.9	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5
170°	1680.3	1678.1	1678.1	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5
172.5°	1691.8	1690.0	1690.0	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3
175°	1704.1	1702.4	1702.4	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7
177.5°	1709.9	1708.5	1708.5	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1425.3	1430.7	1437.4	1447.7	1455.5	1462.2	1463.7	1465.6	1470.5	1478.7	1485.1
5°	1434.6	1448.5	1471.0	1492.8	1516.5	1535.9	1554.1	1566.8	1579.0	1604.5	1625.1
7.5°	1431.6	1462.8	1497.9	1537.1	1576.8	1615.2	1651.0	1682.9	1714.7	1751.9	1794.2
10°	1429.7	1466.2	1513.4	1563.8	1619.1	1673.0	1725.3	1765.9	1813.2	1855.7	1909.7
12.5°	1420.5	1472.9	1529.5	1593.9	1661.8	1724.0	1792.7	1848.9	1903.1	1964.4	2027.2
15°	1408.5	1472.2	1543.8	1629.3	1732.5	1807.8	1878.1	1975.9	2042.6	2109.3	2199.2
17.5°	1386.5	1464.3	1553.7	1664.9	1751.0	1852.1	1958.0	2035.2	2125.1	2219.2	2300.5
20°	1369.0	1459.5	1559.6	1668.8	1778.6	1888.5	1991.0	2083.3	2176.1	2284.7	2351.5
22.5°	1351.6	1441.0	1545.0	1661.1	1779.1	1894.8	2010.9	2119.2	2223.7	2333.3	2418.5
25°	1314.4	1420.6	1533.5	1651.8	1768.4	1895.8	2034.1	2154.9	2284.1	2397.0	2477.7
27.5°	1276.8	1374.1	1486.5	1606.5	1736.1	1886.7	2049.4	2186.7	2316.2	2397.0	2422.4
30°	1242.8	1345.9	1449.1	1571.1	1711.3	1879.4	2052.4	2209.5	2315.7	2350.9	2324.8
32.5°	1208.4	1301.8	1404.0	1528.8	1677.8	1861.4	2056.2	2195.9	2259.9	2232.9	2126.7
35°	1147.5	1231.9	1330.8	1455.8	1626.9	1851.5	2040.2	2134.8	2119.1	1967.4	1767.1
37.5°	1082.4	1151.2	1242.8	1373.5	1574.2	1812.0	1971.2	1985.2	1848.7	1615.8	1384.5
40°	1031.0	1092.9	1187.0	1323.5	1533.5	1773.2	1901.8	1845.4	1633.6	1374.5	1181.5
42.5°	981.0	1033.2	1123.8	1271.0	1494.7	1720.3	1798.4	1675.5	1431.2	1186.2	1010.7
45°	896.3	945.5	1036.4	1187.6	1415.1	1619.1	1608.7	1395.1	1150.6	953.3	807.7
47.5°	815.9	858.9	944.3	1098.6	1321.8	1467.3	1370.8	1143.5	936.1	777.8	674.0
50°	759.1	801.6	886.6	1038.9	1247.1	1353.3	1215.5	996.4	806.5	675.4	592.9
52.5°	704.8	746.3	823.9	972.4	1156.7	1220.2	1072.3	869.2	710.9	597.7	526.8
55°	628.7	660.2	730.0	872.0	1009.8	1024.3	874.4	704.5	574.1	495.2	446.7
57.5°	551.2	578.3	647.3	760.4	856.9	849.4	707.3	560.4	472.5	413.8	378.7
60°	500.6	527.4	588.0	685.1	758.0	732.5	602.0	483.7	408.4	365.3	337.4
62.5°	453.5	474.4	531.2	602.1	654.5	625.6	514.6	416.7	357.0	320.7	298.5
65°	385.3	402.3	447.8	484.8	514.0	486.1	393.9	325.8	282.8	257.3	242.1
67.5°	320.6	331.4	360.1	373.4	394.0	363.4	296.1	250.7	226.1	204.6	194.0
70°	279.7	287.7	302.8	313.7	319.2	287.7	237.9	204.5	183.9	168.7	162.0
72.5°	239.0	245.9	249.0	257.9	255.1	225.5	191.3	164.7	149.9	139.6	131.0
75°	182.6	185.7	182.6	179.1	171.1	150.5	126.8	113.5	102.5	97.7	94.7
77.5°	133.1	132.2	128.0	122.3	108.9	95.9	83.1	78.6	73.9	71.3	70.3
80°	102.5	100.1	96.5	87.4	75.9	66.8	63.8	60.7	58.9	55.8	55.2
82.5°	76.3	74.9	68.8	61.2	53.1	48.8	46.3	45.1	43.3	41.7	41.6
85°	40.7	38.9	32.2	27.9	26.7	25.5	24.9	24.9	22.5	21.8	21.8
87.5°	14.0	11.7	11.8	10.9	11.6	11.4	12.7	12.5	12.8	13.5	12.8
90°	4.4	7.3	10.3	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7
92.5°	34.6	36.6	38.6	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5
95°	81.4	83.6	85.6	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9
97.5°	142.5	144.0	145.6	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5
100°	184.7	186.5	188.2	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5
102.5°	232.4	233.4	234.5	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8
105°	303.2	303.7	304.3	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4
107.5°	385.8	386.1	386.5	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8
110°	437.7	438.2	438.8	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	491.2	491.5	491.9	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8
115°	572.4	573.3	574.2	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5
117.5°	653.3	653.9	654.5	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8
120°	705.1	706.9	708.6	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0
122.5°	757.2	758.6	759.9	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8
125°	837.2	838.2	839.1	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4
127.5°	912.5	914.4	916.3	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9
130°	962.5	964.8	967.2	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4
132.5°	1011.9	1014.3	1016.7	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5
135°	1086.9	1088.7	1090.5	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5
137.5°	1156.5	1158.1	1159.6	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8
140°	1205.0	1206.5	1207.9	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9
142.5°	1249.0	1250.5	1252.1	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2
145°	1317.1	1317.6	1318.2	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5
147.5°	1377.7	1378.8	1379.9	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3
150°	1419.2	1419.8	1420.4	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0
152.5°	1453.8	1454.7	1455.5	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4
155°	1507.3	1507.3	1507.3	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1
157.5°	1553.3	1552.9	1552.6	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6
160°	1582.1	1581.4	1580.8	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0
162.5°	1607.7	1606.8	1606.0	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7
165°	1640.9	1640.0	1639.1	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4
167.5°	1667.2	1666.1	1664.8	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9
170°	1682.3	1681.1	1679.9	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3
172.5°	1694.2	1692.9	1691.8	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6
175°	1706.6	1705.3	1704.1	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9
177.5°	1711.9	1710.9	1709.9	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1495.2	1495.2	1497.2	1504.5	1505.5	1511.7	1509.8
5°	1643.3	1654.8	1659.1	1677.3	1688.2	1693.1	1683.4
7.5°	1824.4	1856.9	1872.3	1891.4	1908.3	1913.3	1900.1
10°	1956.4	1990.4	2018.9	2036.6	2052.9	2063.9	2077.8
12.5°	2084.1	2125.8	2152.9	2177.8	2194.7	2208.5	2210.8
15°	2222.9	2286.0	2333.9	2369.1	2386.7	2395.8	2392.2
17.5°	2362.8	2421.3	2455.4	2491.4	2515.7	2516.9	2517.7
20°	2442.0	2498.9	2538.4	2565.1	2592.4	2591.2	2597.3
22.5°	2494.8	2539.8	2570.0	2589.3	2598.7	2594.1	2595.3
25°	2519.6	2532.9	2527.5	2496.5	2488.7	2460.1	2465.0
27.5°	2391.9	2328.8	2263.5	2179.5	2113.3	2060.3	2063.0
30°	2218.6	2106.9	1979.5	1872.7	1776.8	1750.2	1693.1
32.5°	1976.4	1808.8	1659.6	1560.0	1477.7	1455.5	1405.7
35°	1565.7	1403.0	1249.5	1157.3	1120.8	1069.9	1069.3
37.5°	1216.9	1073.7	992.6	923.4	887.1	856.2	853.2
40°	1023.8	912.0	850.8	801.0	765.3	742.2	736.7
42.5°	888.8	798.4	741.1	710.2	682.7	670.8	661.9
45°	725.8	665.1	625.0	597.1	584.4	575.2	570.4
47.5°	607.1	566.4	539.1	520.6	510.2	500.6	503.2
50°	542.5	509.2	489.1	471.5	463.6	456.9	457.5
52.5°	490.5	460.6	444.4	431.7	421.9	417.1	414.8
55°	416.3	397.4	381.1	372.0	366.5	359.9	358.0
57.5°	355.1	340.5	327.2	316.9	315.6	309.2	310.0
60°	314.3	302.2	291.3	285.8	281.6	276.1	277.9
62.5°	280.9	270.6	260.7	256.2	252.0	248.0	248.8
65°	230.0	220.3	214.2	211.8	210.0	208.1	206.3
67.5°	183.2	177.4	173.5	168.4	164.6	164.0	162.1
70°	154.2	146.2	139.6	132.9	131.1	130.5	131.1
72.5°	123.6	118.6	116.7	113.5	113.2	111.6	112.6
75°	92.8	91.0	89.8	87.4	87.4	87.4	87.4
77.5°	68.5	67.3	66.6	66.2	65.5	64.6	64.6
80°	53.4	52.8	51.5	51.5	51.0	51.5	51.0
82.5°	40.3	40.2	39.0	39.0	38.3	38.0	38.3
85°	20.6	20.1	21.2	20.1	20.6	19.4	20.6
87.5°	13.0	13.2	12.9	13.0	12.7	13.7	12.9
90°	35.8	37.1	38.0	38.5	39.1	39.8	40.3
92.5°	54.5	55.5	55.7	55.4	55.0	54.7	54.3
95°	103.1	104.2	104.9	104.9	104.9	104.9	104.9
97.5°	159.8	161.2	161.8	161.8	161.6	161.5	161.4
100°	200.4	201.3	202.0	202.6	203.2	203.8	204.4
102.5°	247.7	248.6	249.0	248.9	248.7	248.6	248.5
105°	317.4	317.4	317.6	318.3	318.9	319.4	320.0
107.5°	394.7	395.7	395.9	395.6	395.2	394.8	394.5
110°	445.9	447.2	447.5	446.8	446.3	445.7	445.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	497.2	498.6	499.4	499.3	499.1	499.0	498.8
115°	573.7	574.0	574.0	573.7	573.5	573.1	572.8
117.5°	651.8	651.7	651.2	650.3	649.5	648.7	647.8
120°	703.7	703.4	702.9	702.4	701.8	701.2	700.5
122.5°	756.1	755.3	754.5	753.7	752.8	752.0	751.1
125°	834.1	832.9	831.7	830.5	829.4	828.1	827.0
127.5°	911.2	909.5	908.0	906.7	905.3	903.9	902.5
130°	963.2	962.1	960.4	958.3	956.2	954.1	952.0
132.5°	1013.1	1011.6	1010.1	1008.5	1006.9	1005.2	1003.6
135°	1088.2	1087.1	1086.2	1085.6	1084.9	1084.4	1083.8
137.5°	1161.5	1160.3	1159.0	1157.9	1156.8	1155.7	1154.5
140°	1210.7	1210.3	1209.2	1207.0	1205.0	1202.8	1200.8
142.5°	1255.8	1255.5	1254.5	1252.9	1251.3	1249.7	1248.1
145°	1322.2	1322.0	1321.2	1320.0	1318.8	1317.6	1316.4
147.5°	1385.3	1385.3	1384.4	1382.6	1380.8	1378.9	1377.2
150°	1424.0	1424.0	1423.1	1421.3	1419.5	1417.7	1415.9
152.5°	1459.8	1460.4	1459.8	1458.2	1456.7	1455.1	1453.6
155°	1512.3	1513.5	1513.1	1510.9	1508.9	1506.7	1504.7
157.5°	1556.8	1558.1	1557.9	1556.2	1554.5	1552.8	1551.2
160°	1584.5	1585.9	1586.1	1584.9	1583.7	1582.5	1581.3
162.5°	1610.3	1611.8	1611.6	1609.6	1607.8	1605.8	1603.9
165°	1643.2	1644.9	1644.8	1642.7	1640.7	1638.5	1636.5
167.5°	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1
170°	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1
172.5°	1695.5	1697.4	1697.3	1695.1	1693.1	1691.0	1688.9
175°	1707.7	1709.5	1709.3	1707.3	1705.1	1703.1	1701.0
177.5°	1712.8	1714.2	1714.1	1712.4	1710.7	1709.1	1707.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7

(END OF REPORT)