

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: P332168-840

Luminaire Tested: **S123DIW-S775D1320U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332168-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S775D1320U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

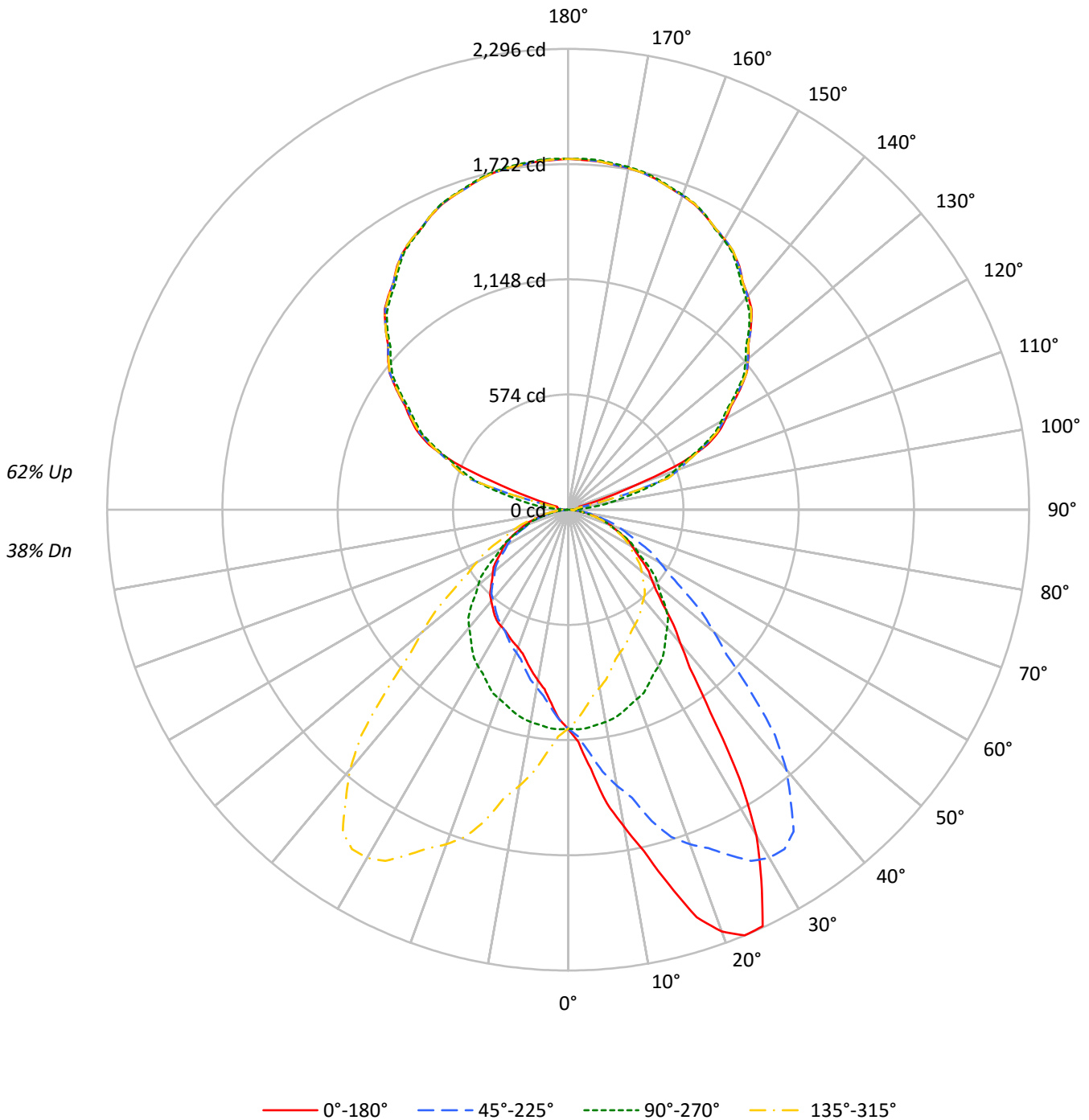
Lumens per Lamp: N/A  
Luminaire Lumens: 8628.3 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

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



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	58	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	11746	11746	11746	11746
5°	14008	11797	10454	11797
10°	17533	11737	9441	11737
15°	21504	11642	8790	11642
20°	25616	11494	8369	11494
25°	27201	11315	8276	11315
30°	23313	11184	8319	11184
35°	16215	10997	8406	10997
40°	12213	10779	8379	10779
45°	10140	10455	8273	10455
50°	9083	9791	8199	9791
55°	8492	9077	8096	9077
60°	7967	8331	8013	8331
65°	7488	7595	7755	7595
70°	7021	6754	7386	6754
75°	6288	5914	6771	5914
80°	5511	4854	5833	4854
85°	4310	3532	3915	3532



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	1.2
10°-20°	344.7	4.0
20°-30°	578.5	6.7
30°-40°	655.0	7.6
40°-50°	587.4	6.8
50°-60°	474.0	5.5
60°-70°	330.3	3.8
70°-80°	173.6	2.0
80°-90°	47.3	0.5
90°-100°	63.5	0.7
100°-110°	302.9	3.5
110°-120°	727.5	8.4
120°-130°	926.3	10.7
130°-140°	989.8	11.5
140°-150°	925.5	10.7
150°-160°	746.6	8.7
160°-170°	481.8	5.6
170°-180°	166.1	1.9
0°-30°	1030.6	11.9
0°-40°	1685.7	19.5
0°-60°	2747.1	31.8
0°-90°	3298.3	38.2
90°-120°	1093.9	12.7
90°-150°	3935.5	45.6
90°-180°	5330.0	61.8
0°-180°	8628.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1296	1092	968	1092	1296	134
15°	1930	1045	789	1045	1930	557
25°	2290	953	697	953	2290	1004
35°	1234	837	640	837	1234	802
45°	666	687	544	687	666	527
55°	452	484	431	484	452	406
65°	294	298	304	298	294	293
75°	151	142	163	142	151	162
85°	35	29	32	29	35	42
90°	39	1	39	1	39	19
95°	49	79	49	79	49	41
105°	57	387	57	387	57	131
115°	764	726	764	726	764	706
125°	1044	1023	1044	1023	1044	932
135°	1287	1274	1287	1274	1287	992
145°	1484	1470	1484	1470	1484	926
155°	1617	1619	1617	1619	1617	745
165°	1704	1708	1704	1708	1704	481
175°	1741	1748	1741	1748	1741	166
180°	1748	1748	1748	1748	1748	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1158.0	1157.2	1155.1	1156.8	1153.4	1148.7	1148.3	1144.1	1131.8	1130.9	1127.6
5°	1296.4	1292.1	1291.6	1291.0	1283.6	1273.6	1254.6	1252.9	1227.6	1214.9	1199.6
7.5°	1475.4	1477.6	1470.0	1463.2	1440.6	1425.6	1405.2	1379.1	1348.0	1316.4	1295.3
10°	1604.1	1621.4	1599.8	1585.0	1571.2	1545.3	1515.2	1477.6	1440.2	1396.2	1362.9
12.5°	1741.9	1750.5	1746.2	1732.2	1710.8	1671.4	1618.0	1576.6	1542.1	1468.9	1439.5
15°	1929.7	1962.0	1941.4	1893.7	1894.8	1857.2	1787.5	1710.8	1670.1	1606.1	1518.9
17.5°	2129.7	2133.7	2125.0	2085.4	2058.9	2007.3	1942.9	1869.5	1787.0	1709.5	1617.0
20°	2236.3	2233.1	2214.6	2194.0	2148.6	2108.4	2038.1	1956.1	1850.4	1774.2	1673.2
22.5°	2295.5	2290.3	2281.5	2264.2	2226.3	2183.2	2120.1	2030.5	1930.0	1825.0	1708.4
25°	2290.3	2297.1	2298.1	2293.4	2280.2	2254.3	2204.6	2133.2	2032.8	1897.9	1776.4
27.5°	2083.0	2092.7	2121.0	2146.1	2174.0	2202.6	2198.8	2163.3	2089.0	1972.7	1823.9
30°	1875.7	1854.6	1906.9	1973.1	2018.0	2097.3	2141.7	2144.3	2102.5	2002.7	1857.7
32.5°	1588.1	1611.4	1634.6	1715.9	1814.1	1903.2	1991.6	2062.8	2070.8	2004.4	1877.6
35°	1234.0	1263.0	1305.4	1347.6	1453.4	1544.3	1699.7	1835.0	1942.9	1957.2	1879.5
37.5°	994.3	1008.8	1035.5	1077.8	1147.0	1254.9	1375.1	1546.2	1702.4	1818.7	1823.7
40°	869.2	873.4	903.5	935.7	991.8	1080.7	1189.0	1340.2	1527.3	1689.7	1757.4
42.5°	775.3	784.6	797.4	828.3	872.9	939.8	1040.6	1165.5	1337.1	1523.9	1656.3
45°	666.1	676.7	684.7	705.3	737.0	781.9	852.2	966.4	1097.0	1290.0	1468.1
47.5°	594.0	594.9	600.8	616.3	637.9	671.7	721.3	794.8	914.6	1071.1	1254.1
50°	542.4	550.9	553.0	565.1	582.1	606.9	648.1	710.5	808.9	946.3	1114.5
52.5°	506.0	508.6	514.5	523.3	538.1	557.4	593.2	642.1	719.2	836.4	991.0
55°	452.5	452.5	458.4	465.2	473.7	491.1	514.9	550.9	609.6	700.5	828.5
57.5°	403.0	405.7	409.8	411.9	419.1	430.7	450.5	477.9	521.6	591.6	693.3
60°	370.1	374.9	374.4	378.5	384.9	393.8	410.8	433.0	472.1	528.2	613.8
62.5°	341.3	341.0	340.9	346.0	352.3	360.9	371.8	391.1	424.3	474.0	546.9
65°	294.0	292.9	296.6	299.7	301.8	308.2	316.7	333.6	355.8	392.8	449.4
67.5°	251.9	248.8	250.9	251.9	255.5	260.4	268.3	278.8	296.5	326.2	368.8
70°	223.1	220.5	219.9	221.0	224.2	227.8	233.7	243.7	260.1	283.9	315.1
72.5°	193.5	191.7	191.6	193.9	195.4	197.8	202.0	211.2	224.2	242.1	271.1
75°	151.2	151.2	151.2	151.7	153.3	155.4	158.6	163.4	173.4	186.1	205.6
77.5°	113.3	113.2	112.6	112.5	114.8	115.8	116.5	121.0	126.5	135.1	149.4
80°	88.9	86.1	87.3	88.9	89.9	90.4	92.0	93.0	97.9	102.6	112.6
82.5°	65.9	63.7	63.9	66.4	66.7	67.2	68.8	70.2	72.0	76.3	81.7
85°	34.9	34.9	35.4	35.4	36.0	35.4	37.0	37.6	37.6	40.2	43.3
87.5°	20.5	19.5	19.8	20.1	19.6	19.9	20.0	20.2	20.4	20.6	20.3
90°	39.0	38.4	37.8	37.3	36.7	35.7	34.6	33.4	32.3	31.2	27.4
92.5°	43.1	42.7	42.4	42.1	41.7	40.6	38.8	37.0	35.0	33.2	30.4
95°	49.4	49.4	49.4	49.4	49.4	48.4	46.4	44.3	42.3	40.3	37.1
97.5°	53.5	53.2	52.9	52.6	52.3	51.0	48.8	46.5	44.1	41.8	62.6
100°	54.5	54.2	53.9	53.6	53.4	52.1	49.8	47.5	45.1	42.8	87.9
102.5°	55.5	55.0	54.5	54.0	53.5	56.9	63.9	71.1	78.3	85.4	134.6
105°	57.2	56.6	55.9	55.4	54.8	80.1	131.2	182.2	233.3	284.4	310.3
107.5°	179.5	217.9	256.4	295.0	333.5	371.4	408.9	446.4	483.7	521.2	517.2
110°	357.1	398.4	439.6	480.9	522.1	547.5	557.0	566.5	576.1	585.6	582.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	612.7	621.4	630.1	638.7	647.5	651.8	651.6	651.5	651.3	651.1	647.9
115°	763.6	762.3	761.2	760.0	758.9	756.9	754.0	751.1	748.2	745.4	742.8
117.5°	848.2	848.0	847.7	847.5	847.3	846.0	843.6	841.4	839.1	836.8	835.5
120°	906.4	906.4	906.4	906.4	906.4	905.2	902.9	900.6	898.3	896.0	895.1
122.5°	963.5	963.3	963.0	962.8	962.6	961.7	960.1	958.5	956.8	955.2	954.1
125°	1044.0	1043.4	1042.9	1042.3	1041.7	1041.1	1040.6	1040.0	1039.4	1038.8	1037.6
127.5°	1121.4	1122.0	1122.6	1123.2	1123.7	1123.6	1122.6	1121.7	1120.7	1119.8	1118.4
130°	1171.2	1171.8	1172.5	1173.0	1173.6	1173.3	1172.2	1170.9	1169.8	1168.6	1167.5
132.5°	1217.0	1217.8	1218.6	1219.4	1220.2	1220.0	1218.9	1217.7	1216.6	1215.4	1214.5
135°	1286.9	1287.7	1288.6	1289.4	1290.3	1290.3	1289.4	1288.6	1287.7	1286.9	1285.7
137.5°	1352.5	1353.1	1353.7	1354.2	1354.8	1354.4	1353.0	1351.7	1350.3	1348.9	1348.3
140°	1392.0	1392.6	1393.1	1393.7	1394.3	1394.0	1392.9	1391.7	1390.6	1389.4	1388.6
142.5°	1428.4	1429.2	1430.0	1430.8	1431.6	1431.6	1430.6	1429.7	1428.8	1427.8	1426.9
145°	1484.2	1484.2	1484.2	1484.2	1484.2	1483.9	1483.3	1482.8	1482.2	1481.6	1481.1
147.5°	1525.7	1527.1	1528.4	1529.7	1531.1	1531.5	1530.9	1530.2	1529.7	1529.1	1528.5
150°	1556.9	1557.8	1558.6	1559.5	1560.3	1560.5	1559.9	1559.3	1558.8	1558.2	1557.6
152.5°	1581.9	1583.2	1584.5	1585.8	1587.2	1587.3	1586.3	1585.2	1584.2	1583.2	1582.8
155°	1616.7	1618.4	1620.1	1621.8	1623.6	1623.8	1622.2	1620.8	1619.4	1617.9	1617.7
157.5°	1646.0	1648.2	1650.5	1652.7	1655.0	1655.3	1653.6	1651.8	1650.0	1648.3	1648.6
160°	1664.7	1666.7	1668.7	1670.7	1672.7	1672.9	1671.2	1669.4	1667.7	1666.0	1666.3
162.5°	1682.3	1684.2	1686.0	1687.7	1689.5	1689.4	1687.5	1685.5	1683.5	1681.5	1681.8
165°	1703.6	1705.7	1707.7	1709.7	1711.7	1711.6	1709.3	1707.0	1704.7	1702.3	1702.6
167.5°	1719.0	1721.3	1723.6	1725.9	1728.2	1728.2	1725.9	1723.6	1721.3	1719.0	1719.0
170°	1728.3	1730.6	1732.9	1735.3	1737.6	1737.6	1735.3	1732.9	1730.6	1728.3	1728.3
172.5°	1733.5	1736.1	1738.6	1741.1	1743.6	1743.8	1741.5	1739.2	1736.9	1734.5	1734.3
175°	1741.3	1743.6	1746.0	1748.3	1750.5	1750.7	1748.7	1746.7	1744.6	1742.6	1742.3
177.5°	1743.6	1746.0	1748.3	1750.6	1752.9	1753.1	1751.3	1749.4	1747.6	1745.8	1745.5
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1125.0	1121.7	1118.2	1112.4	1107.3	1100.0	1097.9	1095.4	1087.8	1081.1	1076.0
5°	1193.8	1181.0	1162.6	1145.7	1132.0	1113.4	1102.9	1091.8	1075.9	1061.6	1050.0
7.5°	1265.7	1240.7	1211.9	1180.8	1151.9	1124.0	1101.5	1081.4	1059.1	1038.1	1021.8
10°	1322.7	1286.8	1246.7	1203.3	1166.3	1130.3	1100.1	1073.8	1045.2	1020.4	999.8
12.5°	1387.9	1334.6	1279.2	1226.6	1182.8	1132.9	1096.4	1062.8	1030.4	1000.5	977.3
15°	1465.0	1397.4	1331.7	1259.3	1192.8	1130.3	1087.0	1044.7	1007.1	976.4	946.8
17.5°	1535.2	1458.5	1372.1	1284.0	1203.7	1129.7	1069.0	1021.2	974.2	936.8	907.3
20°	1575.0	1487.7	1389.9	1298.5	1209.6	1127.1	1060.6	1003.4	952.7	913.0	879.7
22.5°	1609.2	1507.1	1405.9	1308.2	1209.2	1120.3	1044.9	986.1	931.1	892.3	856.9
25°	1644.8	1522.6	1421.1	1306.4	1195.9	1103.9	1019.3	952.7	897.7	852.2	815.8
27.5°	1675.2	1521.6	1401.1	1277.7	1175.0	1082.8	992.4	921.0	862.6	813.2	776.2
30°	1695.5	1523.7	1380.4	1258.3	1154.7	1059.4	971.7	899.8	838.5	788.3	753.4
32.5°	1708.2	1522.4	1361.4	1231.2	1122.5	1038.3	949.3	874.8	811.8	762.4	728.8
35°	1715.6	1513.1	1328.6	1175.3	1070.6	988.7	914.1	836.9	770.8	724.8	686.8
37.5°	1700.8	1493.5	1290.5	1121.4	1006.7	926.0	863.3	797.6	734.4	683.7	651.0
40°	1677.5	1480.9	1260.9	1083.3	962.7	885.0	831.6	767.1	704.7	656.6	625.9
42.5°	1633.1	1455.0	1228.3	1041.0	917.1	839.3	790.2	736.3	677.2	632.1	601.5
45°	1524.7	1398.9	1179.5	977.5	849.6	769.2	725.9	686.8	633.4	589.5	563.0
47.5°	1374.3	1314.4	1108.8	910.6	779.2	701.9	656.8	625.3	586.3	550.9	525.5
50°	1269.9	1245.1	1061.1	864.9	732.3	656.6	613.3	584.7	556.7	521.3	498.1
52.5°	1149.3	1164.7	1005.2	817.6	684.4	610.1	569.3	546.6	521.2	492.1	471.8
55°	979.7	1035.1	908.8	738.0	613.3	542.4	503.8	483.7	469.0	447.3	429.8
57.5°	820.7	891.4	804.6	656.1	543.4	482.3	445.2	423.3	413.8	402.5	388.8
60°	726.4	796.2	730.1	601.1	496.4	438.3	405.5	387.0	377.5	369.5	357.9
62.5°	642.3	712.9	657.3	545.3	450.3	396.4	367.9	349.8	342.3	338.2	328.3
65°	526.5	587.3	550.4	458.4	384.4	336.8	310.8	298.2	291.3	289.7	283.4
67.5°	428.6	474.8	447.9	380.2	321.9	280.8	258.8	248.0	242.8	242.3	237.5
70°	364.3	407.6	387.0	325.7	275.5	243.2	224.2	214.6	211.5	211.0	208.3
72.5°	314.4	344.6	328.2	277.0	238.2	208.9	195.0	185.0	181.5	182.2	180.4
75°	232.6	255.4	245.8	210.5	179.3	160.2	148.6	142.2	139.1	140.7	138.6
77.5°	167.3	181.8	173.2	148.7	129.5	115.6	107.1	103.2	100.4	100.3	99.3
80°	126.3	134.8	130.1	115.2	99.4	87.8	80.9	78.3	76.6	76.1	75.6
82.5°	90.0	97.1	91.6	81.4	70.6	63.6	59.8	56.2	55.1	55.4	54.8
85°	45.4	48.1	45.9	39.7	35.4	32.2	30.1	28.6	27.5	28.0	27.0
87.5°	20.4	20.1	18.1	15.7	14.2	12.4	11.8	10.4	10.1	10.7	10.9
90°	23.6	19.9	16.2	12.8	10.0	7.1	4.1	1.3	4.1	7.1	10.0
92.5°	27.6	24.7	21.9	20.9	21.7	22.5	23.3	24.1	23.3	22.5	21.7
95°	33.9	30.7	27.6	31.9	43.7	55.5	67.4	79.2	67.4	55.5	43.7
97.5°	83.4	104.1	124.9	137.9	143.3	148.6	153.9	159.2	153.9	148.6	143.3
100°	132.9	177.9	222.9	242.6	236.7	231.0	225.2	219.4	225.2	231.0	236.7
102.5°	183.8	233.0	282.2	304.7	300.4	296.3	292.2	288.0	292.2	296.3	300.4
105°	336.3	362.2	388.3	399.6	396.5	393.3	390.1	387.0	390.1	393.3	396.5
107.5°	513.0	509.0	504.8	501.5	499.0	496.4	493.9	491.4	493.9	496.4	499.0
110°	579.3	576.1	572.9	570.2	567.8	565.5	563.3	561.0	563.3	565.5	567.8





TEST NUMBER: P332168-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	644.7	641.6	638.3	635.7	633.7	631.6	629.5	627.4	629.5	631.6	633.7
115°	740.1	737.5	735.0	732.8	731.0	729.3	727.6	725.9	727.6	729.3	731.0
117.5°	834.1	832.7	831.4	829.7	827.6	825.5	823.3	821.2	823.3	825.5	827.6
120°	894.2	893.3	892.5	890.8	888.2	885.6	883.0	880.4	883.0	885.6	888.2
122.5°	953.0	951.9	950.8	949.2	947.1	944.9	942.8	940.7	942.8	944.9	947.1
125°	1036.5	1035.3	1034.2	1032.5	1030.2	1027.8	1025.5	1023.2	1025.5	1027.8	1030.2
127.5°	1117.1	1115.7	1114.3	1112.5	1110.1	1107.8	1105.5	1103.2	1105.5	1107.8	1110.1
130°	1166.4	1165.2	1164.1	1162.4	1160.0	1157.7	1155.4	1153.1	1155.4	1157.7	1160.0
132.5°	1213.6	1212.6	1211.7	1210.1	1207.8	1205.5	1203.2	1200.8	1203.2	1205.5	1207.8
135°	1284.5	1283.3	1282.2	1280.8	1279.0	1277.3	1275.6	1273.8	1275.6	1277.3	1279.0
137.5°	1347.7	1347.0	1346.4	1344.9	1342.7	1340.6	1338.4	1336.2	1338.4	1340.6	1342.7
140°	1387.7	1386.8	1385.9	1384.6	1382.9	1381.2	1379.5	1377.8	1379.5	1381.2	1382.9
142.5°	1426.1	1425.2	1424.4	1423.1	1421.4	1419.7	1417.9	1416.1	1417.9	1419.7	1421.4
145°	1480.5	1479.9	1479.3	1478.0	1476.0	1474.0	1472.0	1470.0	1472.0	1474.0	1476.0
147.5°	1527.9	1527.4	1526.8	1525.9	1524.5	1523.2	1521.9	1520.6	1521.9	1523.2	1524.5
150°	1557.0	1556.5	1555.9	1555.2	1554.3	1553.5	1552.6	1551.8	1552.6	1553.5	1554.3
152.5°	1582.5	1582.2	1581.8	1581.3	1580.9	1580.5	1580.1	1579.7	1580.1	1580.5	1580.9
155°	1617.4	1617.1	1616.8	1616.9	1617.5	1618.1	1618.7	1619.2	1618.7	1618.1	1617.5
157.5°	1648.9	1649.2	1649.5	1649.6	1649.7	1649.8	1649.8	1649.9	1649.8	1649.8	1649.7
160°	1666.6	1666.9	1667.2	1667.4	1667.7	1668.0	1668.3	1668.6	1668.3	1668.0	1667.7
162.5°	1682.1	1682.4	1682.7	1683.2	1683.9	1684.8	1685.5	1686.3	1685.5	1684.8	1683.9
165°	1702.9	1703.2	1703.5	1704.0	1705.0	1705.8	1706.7	1707.6	1706.7	1705.8	1705.0
167.5°	1719.0	1719.0	1719.0	1719.5	1720.7	1721.8	1723.0	1724.1	1723.0	1721.8	1720.7
170°	1728.3	1728.3	1728.3	1728.9	1730.1	1731.2	1732.3	1733.5	1732.3	1731.2	1730.1
172.5°	1734.1	1733.8	1733.6	1734.2	1735.6	1737.0	1738.4	1739.8	1738.4	1737.0	1735.6
175°	1742.0	1741.7	1741.4	1742.0	1743.4	1744.9	1746.4	1747.8	1746.4	1744.9	1743.4
177.5°	1745.2	1745.0	1744.8	1745.2	1746.5	1747.6	1748.7	1749.9	1748.7	1747.6	1746.5
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1073.0	1070.1	1065.8	1059.4	1054.4	1046.3	1046.3	1047.6	1047.6	1047.2	1046.3
5°	1040.5	1032.5	1023.0	1011.9	1000.3	988.7	986.5	982.3	979.2	977.0	974.3
7.5°	1006.1	992.0	978.2	962.6	948.5	936.8	928.6	921.8	917.5	912.8	909.5
10°	982.8	965.3	949.0	932.6	914.6	900.4	891.4	885.0	880.3	876.1	873.9
12.5°	955.3	935.3	917.3	901.7	882.0	867.4	858.8	855.9	850.2	841.3	836.7
15°	915.1	896.7	874.9	851.2	841.6	823.6	813.6	808.9	805.7	798.8	796.7
17.5°	880.8	856.6	832.2	814.5	796.8	782.2	776.6	770.7	766.5	760.8	759.2
20°	853.3	831.6	809.4	790.4	771.8	756.0	751.2	747.0	742.8	740.1	738.0
22.5°	825.4	803.8	785.3	767.5	747.8	737.4	732.3	727.6	724.6	722.9	720.7
25°	786.2	767.1	746.5	730.6	714.8	707.9	704.7	702.1	699.9	697.3	696.8
27.5°	751.0	730.3	713.6	698.8	687.4	681.7	678.6	677.3	677.8	678.7	679.3
30°	724.8	705.8	692.1	679.3	668.8	663.5	663.0	663.0	665.1	665.6	666.7
32.5°	700.7	685.1	671.4	659.0	651.1	647.4	649.4	649.4	651.2	652.5	654.4
35°	665.6	651.9	641.3	630.8	623.9	625.4	626.5	627.5	630.2	633.4	635.5
37.5°	632.1	620.2	609.2	600.9	597.7	600.6	603.1	605.3	608.4	610.9	613.0
40°	607.9	599.0	588.4	581.0	582.1	583.7	585.8	588.4	591.1	592.7	594.8
42.5°	585.5	576.1	568.2	562.0	563.5	565.5	566.7	568.2	571.2	574.0	575.3
45°	551.4	544.0	536.6	532.9	534.0	535.0	536.0	537.7	540.3	542.4	543.0
47.5°	513.0	507.9	502.9	499.3	501.0	500.6	501.9	505.3	506.1	507.5	510.4
50°	488.5	483.7	478.0	476.9	476.9	476.9	477.4	481.6	481.6	483.7	485.8
52.5°	461.4	458.4	454.6	452.7	451.9	451.9	454.1	456.3	457.1	460.1	462.2
55°	421.3	418.2	415.1	413.4	412.3	413.4	417.7	418.7	421.3	422.9	424.5
57.5°	379.6	377.2	374.7	373.8	373.5	375.0	377.3	380.4	381.1	386.0	388.4
60°	352.1	348.4	346.3	346.3	345.3	350.0	348.9	354.3	355.3	358.4	362.1
62.5°	323.8	318.8	317.9	317.9	319.4	320.8	322.2	324.6	327.4	331.3	334.3
65°	278.1	275.5	279.1	278.6	277.5	280.7	280.7	283.4	286.5	290.2	296.1
67.5°	234.8	233.5	233.8	233.8	235.4	237.2	238.6	241.0	244.8	248.7	252.5
70°	205.6	207.2	204.6	206.7	208.3	208.8	209.8	213.1	217.3	219.9	224.2
72.5°	177.3	177.2	177.5	178.3	180.0	180.9	182.0	185.6	190.3	192.5	195.8
75°	136.4	135.8	137.4	137.4	140.1	141.2	142.2	143.8	148.0	151.2	153.8
77.5°	99.6	100.3	99.9	101.7	101.0	101.2	104.4	106.0	106.4	112.7	114.1
80°	75.0	76.1	76.6	77.2	77.8	76.6	80.4	81.9	81.9	85.6	88.3
82.5°	53.9	54.5	55.9	56.5	56.6	57.7	58.0	59.1	60.4	62.0	65.4
85°	27.0	28.6	29.1	28.6	29.1	28.0	29.6	30.1	30.7	30.7	30.7
87.5°	11.0	12.1	12.4	13.6	13.9	15.1	15.3	14.7	14.9	16.5	14.9
90°	12.8	16.2	19.9	23.6	27.4	31.2	32.3	33.4	34.6	35.7	36.7
92.5°	20.9	21.9	24.7	27.6	30.4	33.2	35.0	37.0	38.8	40.6	41.7
95°	31.9	27.6	30.7	33.9	37.1	40.3	42.3	44.3	46.4	48.4	49.4
97.5°	137.9	124.9	104.1	83.4	62.6	41.8	44.1	46.5	48.8	51.0	52.3
100°	242.6	222.9	177.9	132.9	87.9	42.8	45.1	47.5	49.8	52.1	53.4
102.5°	304.7	282.2	233.0	183.8	134.6	85.4	78.3	71.1	63.9	56.9	53.5
105°	399.6	388.3	362.2	336.3	310.3	284.4	233.3	182.2	131.2	80.1	54.8
107.5°	501.5	504.8	509.0	513.0	517.2	521.2	483.7	446.4	408.9	371.4	333.5
110°	570.2	572.9	576.1	579.3	582.5	585.6	576.1	566.5	557.0	547.5	522.1



TEST NUMBER: P332168-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	635.7	638.3	641.6	644.7	647.9	651.1	651.3	651.5	651.6	651.8	647.5
115°	732.8	735.0	737.5	740.1	742.8	745.4	748.2	751.1	754.0	756.9	758.9
117.5°	829.7	831.4	832.7	834.1	835.5	836.8	839.1	841.4	843.6	846.0	847.3
120°	890.8	892.5	893.3	894.2	895.1	896.0	898.3	900.6	902.9	905.2	906.4
122.5°	949.2	950.8	951.9	953.0	954.1	955.2	956.8	958.5	960.1	961.7	962.6
125°	1032.5	1034.2	1035.3	1036.5	1037.6	1038.8	1039.4	1040.0	1040.6	1041.1	1041.7
127.5°	1112.5	1114.3	1115.7	1117.1	1118.4	1119.8	1120.7	1121.7	1122.6	1123.6	1123.7
130°	1162.4	1164.1	1165.2	1166.4	1167.5	1168.6	1169.8	1170.9	1172.2	1173.3	1173.6
132.5°	1210.1	1211.7	1212.6	1213.6	1214.5	1215.4	1216.6	1217.7	1218.9	1220.0	1220.2
135°	1280.8	1282.2	1283.3	1284.5	1285.7	1286.9	1287.7	1288.6	1289.4	1290.3	1290.3
137.5°	1344.9	1346.4	1347.0	1347.7	1348.3	1348.9	1350.3	1351.7	1353.0	1354.4	1354.8
140°	1384.6	1385.9	1386.8	1387.7	1388.6	1389.4	1390.6	1391.7	1392.9	1394.0	1394.3
142.5°	1423.1	1424.4	1425.2	1426.1	1426.9	1427.8	1428.8	1429.7	1430.6	1431.6	1431.6
145°	1478.0	1479.3	1479.9	1480.5	1481.1	1481.6	1482.2	1482.8	1483.3	1483.9	1484.2
147.5°	1525.9	1526.8	1527.4	1527.9	1528.5	1529.1	1529.7	1530.2	1530.9	1531.5	1531.1
150°	1555.2	1555.9	1556.5	1557.0	1557.6	1558.2	1558.8	1559.3	1559.9	1560.5	1560.3
152.5°	1581.3	1581.8	1582.2	1582.5	1582.8	1583.2	1584.2	1585.2	1586.3	1587.3	1587.2
155°	1616.9	1616.8	1617.1	1617.4	1617.7	1617.9	1619.4	1620.8	1622.2	1623.8	1623.6
157.5°	1649.6	1649.5	1649.2	1648.9	1648.6	1648.3	1650.0	1651.8	1653.6	1655.3	1655.0
160°	1667.4	1667.2	1666.9	1666.6	1666.3	1666.0	1667.7	1669.4	1671.2	1672.9	1672.7
162.5°	1683.2	1682.7	1682.4	1682.1	1681.8	1681.5	1683.5	1685.5	1687.5	1689.4	1689.5
165°	1704.0	1703.5	1703.2	1702.9	1702.6	1702.3	1704.7	1707.0	1709.3	1711.6	1711.7
167.5°	1719.5	1719.0	1719.0	1719.0	1719.0	1719.0	1721.3	1723.6	1725.9	1728.2	1728.2
170°	1728.9	1728.3	1728.3	1728.3	1728.3	1728.3	1730.6	1732.9	1735.3	1737.6	1737.6
172.5°	1734.2	1733.6	1733.8	1734.1	1734.3	1734.5	1736.9	1739.2	1741.5	1743.8	1743.6
175°	1742.0	1741.4	1741.7	1742.0	1742.3	1742.6	1744.6	1746.7	1748.7	1750.7	1750.5
177.5°	1745.2	1744.8	1745.0	1745.2	1745.5	1745.8	1747.6	1749.4	1751.3	1753.1	1752.9
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



TEST NUMBER: P332168-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1043.4	1043.0	1045.9	1043.8	1045.9	1043.0	1043.4	1046.3	1047.2	1047.6	1047.6
5°	971.2	972.8	967.5	967.5	967.5	972.8	971.2	974.3	977.0	979.2	982.3
7.5°	906.9	904.5	904.7	901.9	904.7	904.5	906.9	909.5	912.8	917.5	921.8
10°	867.6	864.4	863.3	863.8	863.3	864.4	867.6	873.9	876.1	880.3	885.0
12.5°	835.0	834.4	827.4	827.5	827.4	834.4	835.0	836.7	841.3	850.2	855.9
15°	796.7	786.7	785.6	788.8	785.6	786.7	796.7	796.7	798.8	805.7	808.9
17.5°	758.3	753.1	753.4	751.7	753.4	753.1	758.3	759.2	760.8	766.5	770.7
20°	738.0	734.9	734.4	730.6	734.4	734.9	738.0	738.0	740.1	742.8	747.0
22.5°	719.4	718.4	718.7	714.6	718.7	718.4	719.4	720.7	722.9	724.6	727.6
25°	696.3	698.9	696.8	696.8	696.8	698.9	696.3	696.8	697.3	699.9	702.1
27.5°	680.6	680.5	679.4	679.4	679.4	680.5	680.6	679.3	678.7	677.8	677.3
30°	668.8	668.2	669.3	669.3	669.3	668.2	668.8	666.7	665.6	665.1	663.0
32.5°	656.9	657.7	657.9	658.3	657.9	657.7	656.9	654.4	652.5	651.2	649.4
35°	638.6	639.1	640.8	639.7	640.8	639.1	638.6	635.5	633.4	630.2	627.5
37.5°	613.9	616.3	615.8	616.6	615.8	616.3	613.9	613.0	610.9	608.4	605.3
40°	595.3	596.9	596.3	596.3	596.3	596.9	595.3	594.8	592.7	591.1	588.4
42.5°	576.2	577.4	576.0	575.2	576.0	577.4	576.2	575.3	574.0	571.2	568.2
45°	545.0	544.0	545.6	543.5	545.6	544.0	545.0	543.0	542.4	540.3	537.7
47.5°	510.2	511.2	511.7	513.2	511.7	511.2	510.2	510.4	507.5	506.1	505.3
50°	487.0	490.1	490.1	489.6	490.1	490.1	487.0	485.8	483.7	481.6	481.6
52.5°	464.0	465.5	467.7	467.6	467.7	465.5	464.0	462.2	460.1	457.1	456.3
55°	428.8	429.8	430.9	431.4	430.9	429.8	428.8	424.5	422.9	421.3	418.7
57.5°	392.1	391.7	394.3	395.1	394.3	391.7	392.1	388.4	386.0	381.1	380.4
60°	366.4	366.4	370.6	372.2	370.6	366.4	366.4	362.1	358.4	355.3	354.3
62.5°	338.9	340.6	344.8	342.5	344.8	340.6	338.9	334.3	331.3	327.4	324.6
65°	298.7	303.0	302.5	304.5	302.5	303.0	298.7	296.1	290.2	286.5	283.4
67.5°	256.7	259.3	263.2	263.5	263.2	259.3	256.7	252.5	248.7	244.8	241.0
70°	228.4	231.1	233.2	234.7	233.2	231.1	228.4	224.2	219.9	217.3	213.1
72.5°	200.9	202.3	207.3	205.1	207.3	202.3	200.9	195.8	192.5	190.3	185.6
75°	157.5	161.3	164.4	162.8	164.4	161.3	157.5	153.8	151.2	148.0	143.8
77.5°	116.5	120.2	121.7	120.4	121.7	120.2	116.5	114.1	112.7	106.4	106.0
80°	92.0	91.5	94.6	94.1	94.6	91.5	92.0	88.3	85.6	81.9	81.9
82.5°	67.5	67.0	68.4	68.8	68.4	67.0	67.5	65.4	62.0	60.4	59.1
85°	32.8	34.3	32.2	31.7	32.2	34.3	32.8	30.7	30.7	30.7	30.1
87.5°	15.0	15.1	14.8	14.5	14.8	15.1	15.0	14.9	16.5	14.9	14.7
90°	37.3	37.8	38.4	39.0	38.4	37.8	37.3	36.7	35.7	34.6	33.4
92.5°	42.1	42.4	42.7	43.1	42.7	42.4	42.1	41.7	40.6	38.8	37.0
95°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	48.4	46.4	44.3
97.5°	52.6	52.9	53.2	53.5	53.2	52.9	52.6	52.3	51.0	48.8	46.5
100°	53.6	53.9	54.2	54.5	54.2	53.9	53.6	53.4	52.1	49.8	47.5
102.5°	54.0	54.5	55.0	55.5	55.0	54.5	54.0	53.5	56.9	63.9	71.1
105°	55.4	55.9	56.6	57.2	56.6	55.9	55.4	54.8	80.1	131.2	182.2
107.5°	295.0	256.4	217.9	179.5	217.9	256.4	295.0	333.5	371.4	408.9	446.4
110°	480.9	439.6	398.4	357.1	398.4	439.6	480.9	522.1	547.5	557.0	566.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	638.7	630.1	621.4	612.7	621.4	630.1	638.7	647.5	651.8	651.6	651.5
115°	760.0	761.2	762.3	763.6	762.3	761.2	760.0	758.9	756.9	754.0	751.1
117.5°	847.5	847.7	848.0	848.2	848.0	847.7	847.5	847.3	846.0	843.6	841.4
120°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	905.2	902.9	900.6
122.5°	962.8	963.0	963.3	963.5	963.3	963.0	962.8	962.6	961.7	960.1	958.5
125°	1042.3	1042.9	1043.4	1044.0	1043.4	1042.9	1042.3	1041.7	1041.1	1040.6	1040.0
127.5°	1123.2	1122.6	1122.0	1121.4	1122.0	1122.6	1123.2	1123.7	1123.6	1122.6	1121.7
130°	1173.0	1172.5	1171.8	1171.2	1171.8	1172.5	1173.0	1173.6	1173.3	1172.2	1170.9
132.5°	1219.4	1218.6	1217.8	1217.0	1217.8	1218.6	1219.4	1220.2	1220.0	1218.9	1217.7
135°	1289.4	1288.6	1287.7	1286.9	1287.7	1288.6	1289.4	1290.3	1290.3	1289.4	1288.6
137.5°	1354.2	1353.7	1353.1	1352.5	1353.1	1353.7	1354.2	1354.8	1354.4	1353.0	1351.7
140°	1393.7	1393.1	1392.6	1392.0	1392.6	1393.1	1393.7	1394.3	1394.0	1392.9	1391.7
142.5°	1430.8	1430.0	1429.2	1428.4	1429.2	1430.0	1430.8	1431.6	1431.6	1430.6	1429.7
145°	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1483.9	1483.3	1482.8
147.5°	1529.7	1528.4	1527.1	1525.7	1527.1	1528.4	1529.7	1531.1	1531.5	1530.9	1530.2
150°	1559.5	1558.6	1557.8	1556.9	1557.8	1558.6	1559.5	1560.3	1560.5	1559.9	1559.3
152.5°	1585.8	1584.5	1583.2	1581.9	1583.2	1584.5	1585.8	1587.2	1587.3	1586.3	1585.2
155°	1621.8	1620.1	1618.4	1616.7	1618.4	1620.1	1621.8	1623.6	1623.8	1622.2	1620.8
157.5°	1652.7	1650.5	1648.2	1646.0	1648.2	1650.5	1652.7	1655.0	1655.3	1653.6	1651.8
160°	1670.7	1668.7	1666.7	1664.7	1666.7	1668.7	1670.7	1672.7	1672.9	1671.2	1669.4
162.5°	1687.7	1686.0	1684.2	1682.3	1684.2	1686.0	1687.7	1689.5	1689.4	1687.5	1685.5
165°	1709.7	1707.7	1705.7	1703.6	1705.7	1707.7	1709.7	1711.7	1711.6	1709.3	1707.0
167.5°	1725.9	1723.6	1721.3	1719.0	1721.3	1723.6	1725.9	1728.2	1728.2	1725.9	1723.6
170°	1735.3	1732.9	1730.6	1728.3	1730.6	1732.9	1735.3	1737.6	1737.6	1735.3	1732.9
172.5°	1741.1	1738.6	1736.1	1733.5	1736.1	1738.6	1741.1	1743.6	1743.8	1741.5	1739.2
175°	1748.3	1746.0	1743.6	1741.3	1743.6	1746.0	1748.3	1750.5	1750.7	1748.7	1746.7
177.5°	1750.6	1748.3	1746.0	1743.6	1746.0	1748.3	1750.6	1752.9	1753.1	1751.3	1749.4
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1046.3	1046.3	1054.4	1059.4	1065.8	1070.1	1073.0	1076.0	1081.1	1087.8	1095.4
5°	986.5	988.7	1000.3	1011.9	1023.0	1032.5	1040.5	1050.0	1061.6	1075.9	1091.8
7.5°	928.6	936.8	948.5	962.6	978.2	992.0	1006.1	1021.8	1038.1	1059.1	1081.4
10°	891.4	900.4	914.6	932.6	949.0	965.3	982.8	999.8	1020.4	1045.2	1073.8
12.5°	858.8	867.4	882.0	901.7	917.3	935.3	955.3	977.3	1000.5	1030.4	1062.8
15°	813.6	823.6	841.6	851.2	874.9	896.7	915.1	946.8	976.4	1007.1	1044.7
17.5°	776.6	782.2	796.8	814.5	832.2	856.6	880.8	907.3	936.8	974.2	1021.2
20°	751.2	756.0	771.8	790.4	809.4	831.6	853.3	879.7	913.0	952.7	1003.4
22.5°	732.3	737.4	747.8	767.5	785.3	803.8	825.4	856.9	892.3	931.1	986.1
25°	704.7	707.9	714.8	730.6	746.5	767.1	786.2	815.8	852.2	897.7	952.7
27.5°	678.6	681.7	687.4	698.8	713.6	730.3	751.0	776.2	813.2	862.6	921.0
30°	663.0	663.5	668.8	679.3	692.1	705.8	724.8	753.4	788.3	838.5	899.8
32.5°	649.4	647.4	651.1	659.0	671.4	685.1	700.7	728.8	762.4	811.8	874.8
35°	626.5	625.4	623.9	630.8	641.3	651.9	665.6	686.8	724.8	770.8	836.9
37.5°	603.1	600.6	597.7	600.9	609.2	620.2	632.1	651.0	683.7	734.4	797.6
40°	585.8	583.7	582.1	581.0	588.4	599.0	607.9	625.9	656.6	704.7	767.1
42.5°	566.7	565.5	563.5	562.0	568.2	576.1	585.5	601.5	632.1	677.2	736.3
45°	536.0	535.0	534.0	532.9	536.6	544.0	551.4	563.0	589.5	633.4	686.8
47.5°	501.9	500.6	501.0	499.3	502.9	507.9	513.0	525.5	550.9	586.3	625.3
50°	477.4	476.9	476.9	476.9	478.0	483.7	488.5	498.1	521.3	556.7	584.7
52.5°	454.1	451.9	451.9	452.7	454.6	458.4	461.4	471.8	492.1	521.2	546.6
55°	417.7	413.4	412.3	413.4	415.1	418.2	421.3	429.8	447.3	469.0	483.7
57.5°	377.3	375.0	373.5	373.8	374.7	377.2	379.6	388.8	402.5	413.8	423.3
60°	348.9	350.0	345.3	346.3	346.3	348.4	352.1	357.9	369.5	377.5	387.0
62.5°	322.2	320.8	319.4	317.9	317.9	318.8	323.8	328.3	338.2	342.3	349.8
65°	280.7	280.7	277.5	278.6	279.1	275.5	278.1	283.4	289.7	291.3	298.2
67.5°	238.6	237.2	235.4	233.8	233.8	233.5	234.8	237.5	242.3	242.8	248.0
70°	209.8	208.8	208.3	206.7	204.6	207.2	205.6	208.3	211.0	211.5	214.6
72.5°	182.0	180.9	180.0	178.3	177.5	177.2	177.3	180.4	182.2	181.5	185.0
75°	142.2	141.2	140.1	137.4	137.4	135.8	136.4	138.6	140.7	139.1	142.2
77.5°	104.4	101.2	101.0	101.7	99.9	100.3	99.6	99.3	100.3	100.4	103.2
80°	80.4	76.6	77.8	77.2	76.6	76.1	75.0	75.6	76.1	76.6	78.3
82.5°	58.0	57.7	56.6	56.5	55.9	54.5	53.9	54.8	55.4	55.1	56.2
85°	29.6	28.0	29.1	28.6	29.1	28.6	27.0	27.0	28.0	27.5	28.6
87.5°	15.3	15.1	13.9	13.6	12.4	12.1	11.0	10.9	10.7	10.1	10.4
90°	32.3	31.2	27.4	23.6	19.9	16.2	12.8	10.0	7.1	4.1	1.3
92.5°	35.0	33.2	30.4	27.6	24.7	21.9	20.9	21.7	22.5	23.3	24.1
95°	42.3	40.3	37.1	33.9	30.7	27.6	31.9	43.7	55.5	67.4	79.2
97.5°	44.1	41.8	62.6	83.4	104.1	124.9	137.9	143.3	148.6	153.9	159.2
100°	45.1	42.8	87.9	132.9	177.9	222.9	242.6	236.7	231.0	225.2	219.4
102.5°	78.3	85.4	134.6	183.8	233.0	282.2	304.7	300.4	296.3	292.2	288.0
105°	233.3	284.4	310.3	336.3	362.2	388.3	399.6	396.5	393.3	390.1	387.0
107.5°	483.7	521.2	517.2	513.0	509.0	504.8	501.5	499.0	496.4	493.9	491.4
110°	576.1	585.6	582.5	579.3	576.1	572.9	570.2	567.8	565.5	563.3	561.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	651.3	651.1	647.9	644.7	641.6	638.3	635.7	633.7	631.6	629.5	627.4
115°	748.2	745.4	742.8	740.1	737.5	735.0	732.8	731.0	729.3	727.6	725.9
117.5°	839.1	836.8	835.5	834.1	832.7	831.4	829.7	827.6	825.5	823.3	821.2
120°	898.3	896.0	895.1	894.2	893.3	892.5	890.8	888.2	885.6	883.0	880.4
122.5°	956.8	955.2	954.1	953.0	951.9	950.8	949.2	947.1	944.9	942.8	940.7
125°	1039.4	1038.8	1037.6	1036.5	1035.3	1034.2	1032.5	1030.2	1027.8	1025.5	1023.2
127.5°	1120.7	1119.8	1118.4	1117.1	1115.7	1114.3	1112.5	1110.1	1107.8	1105.5	1103.2
130°	1169.8	1168.6	1167.5	1166.4	1165.2	1164.1	1162.4	1160.0	1157.7	1155.4	1153.1
132.5°	1216.6	1215.4	1214.5	1213.6	1212.6	1211.7	1210.1	1207.8	1205.5	1203.2	1200.8
135°	1287.7	1286.9	1285.7	1284.5	1283.3	1282.2	1280.8	1279.0	1277.3	1275.6	1273.8
137.5°	1350.3	1348.9	1348.3	1347.7	1347.0	1346.4	1344.9	1342.7	1340.6	1338.4	1336.2
140°	1390.6	1389.4	1388.6	1387.7	1386.8	1385.9	1384.6	1382.9	1381.2	1379.5	1377.8
142.5°	1428.8	1427.8	1426.9	1426.1	1425.2	1424.4	1423.1	1421.4	1419.7	1417.9	1416.1
145°	1482.2	1481.6	1481.1	1480.5	1479.9	1479.3	1478.0	1476.0	1474.0	1472.0	1470.0
147.5°	1529.7	1529.1	1528.5	1527.9	1527.4	1526.8	1525.9	1524.5	1523.2	1521.9	1520.6
150°	1558.8	1558.2	1557.6	1557.0	1556.5	1555.9	1555.2	1554.3	1553.5	1552.6	1551.8
152.5°	1584.2	1583.2	1582.8	1582.5	1582.2	1581.8	1581.3	1580.9	1580.5	1580.1	1579.7
155°	1619.4	1617.9	1617.7	1617.4	1617.1	1616.8	1616.9	1617.5	1618.1	1618.7	1619.2
157.5°	1650.0	1648.3	1648.6	1648.9	1649.2	1649.5	1649.6	1649.7	1649.8	1649.8	1649.9
160°	1667.7	1666.0	1666.3	1666.6	1666.9	1667.2	1667.4	1667.7	1668.0	1668.3	1668.6
162.5°	1683.5	1681.5	1681.8	1682.1	1682.4	1682.7	1683.2	1683.9	1684.8	1685.5	1686.3
165°	1704.7	1702.3	1702.6	1702.9	1703.2	1703.5	1704.0	1705.0	1705.8	1706.7	1707.6
167.5°	1721.3	1719.0	1719.0	1719.0	1719.0	1719.0	1719.5	1720.7	1721.8	1723.0	1724.1
170°	1730.6	1728.3	1728.3	1728.3	1728.3	1728.3	1728.9	1730.1	1731.2	1732.3	1733.5
172.5°	1736.9	1734.5	1734.3	1734.1	1733.8	1733.6	1734.2	1735.6	1737.0	1738.4	1739.8
175°	1744.6	1742.6	1742.3	1742.0	1741.7	1741.4	1742.0	1743.4	1744.9	1746.4	1747.8
177.5°	1747.6	1745.8	1745.5	1745.2	1745.0	1744.8	1745.2	1746.5	1747.6	1748.7	1749.9
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1097.9	1100.0	1107.3	1112.4	1118.2	1121.7	1125.0	1127.6	1130.9	1131.8	1144.1
5°	1102.9	1113.4	1132.0	1145.7	1162.6	1181.0	1193.8	1199.6	1214.9	1227.6	1252.9
7.5°	1101.5	1124.0	1151.9	1180.8	1211.9	1240.7	1265.7	1295.3	1316.4	1348.0	1379.1
10°	1100.1	1130.3	1166.3	1203.3	1246.7	1286.8	1322.7	1362.9	1396.2	1440.2	1477.6
12.5°	1096.4	1132.9	1182.8	1226.6	1279.2	1334.6	1387.9	1439.5	1468.9	1542.1	1576.6
15°	1087.0	1130.3	1192.8	1259.3	1331.7	1397.4	1465.0	1518.9	1606.1	1670.1	1710.8
17.5°	1069.0	1129.7	1203.7	1284.0	1372.1	1458.5	1535.2	1617.0	1709.5	1787.0	1869.5
20°	1060.6	1127.1	1209.6	1298.5	1389.9	1487.7	1575.0	1673.2	1774.2	1850.4	1956.1
22.5°	1044.9	1120.3	1209.2	1308.2	1405.9	1507.1	1609.2	1708.4	1825.0	1930.0	2030.5
25°	1019.3	1103.9	1195.9	1306.4	1421.1	1522.6	1644.8	1776.4	1897.9	2032.8	2133.2
27.5°	992.4	1082.8	1175.0	1277.7	1401.1	1521.6	1675.2	1823.9	1972.7	2089.0	2163.3
30°	971.7	1059.4	1154.7	1258.3	1380.4	1523.7	1695.5	1857.7	2002.7	2102.5	2144.3
32.5°	949.3	1038.3	1122.5	1231.2	1361.4	1522.4	1708.2	1877.6	2004.4	2070.8	2062.8
35°	914.1	988.7	1070.6	1175.3	1328.6	1513.1	1715.6	1879.5	1957.2	1942.9	1835.0
37.5°	863.3	926.0	1006.7	1121.4	1290.5	1493.5	1700.8	1823.7	1818.7	1702.4	1546.2
40°	831.6	885.0	962.7	1083.3	1260.9	1480.9	1677.5	1757.4	1689.7	1527.3	1340.2
42.5°	790.2	839.3	917.1	1041.0	1228.3	1455.0	1633.1	1656.3	1523.9	1337.1	1165.5
45°	725.9	769.2	849.6	977.5	1179.5	1398.9	1524.7	1468.1	1290.0	1097.0	966.4
47.5°	656.8	701.9	779.2	910.6	1108.8	1314.4	1374.3	1254.1	1071.1	914.6	794.8
50°	613.3	656.6	732.3	864.9	1061.1	1245.1	1269.9	1114.5	946.3	808.9	710.5
52.5°	569.3	610.1	684.4	817.6	1005.2	1164.7	1149.3	991.0	836.4	719.2	642.1
55°	503.8	542.4	613.3	738.0	908.8	1035.1	979.7	828.5	700.5	609.6	550.9
57.5°	445.2	482.3	543.4	656.1	804.6	891.4	820.7	693.3	591.6	521.6	477.9
60°	405.5	438.3	496.4	601.1	730.1	796.2	726.4	613.8	528.2	472.1	433.0
62.5°	367.9	396.4	450.3	545.3	657.3	712.9	642.3	546.9	474.0	424.3	391.1
65°	310.8	336.8	384.4	458.4	550.4	587.3	526.5	449.4	392.8	355.8	333.6
67.5°	258.8	280.8	321.9	380.2	447.9	474.8	428.6	368.8	326.2	296.5	278.8
70°	224.2	243.2	275.5	325.7	387.0	407.6	364.3	315.1	283.9	260.1	243.7
72.5°	195.0	208.9	238.2	277.0	328.2	344.6	314.4	271.1	242.1	224.2	211.2
75°	148.6	160.2	179.3	210.5	245.8	255.4	232.6	205.6	186.1	173.4	163.4
77.5°	107.1	115.6	129.5	148.7	173.2	181.8	167.3	149.4	135.1	126.5	121.0
80°	80.9	87.8	99.4	115.2	130.1	134.8	126.3	112.6	102.6	97.9	93.0
82.5°	59.8	63.6	70.6	81.4	91.6	97.1	90.0	81.7	76.3	72.0	70.2
85°	30.1	32.2	35.4	39.7	45.9	48.1	45.4	43.3	40.2	37.6	37.6
87.5°	11.8	12.4	14.2	15.7	18.1	20.1	20.4	20.3	20.6	20.4	20.2
90°	4.1	7.1	10.0	12.8	16.2	19.9	23.6	27.4	31.2	32.3	33.4
92.5°	23.3	22.5	21.7	20.9	21.9	24.7	27.6	30.4	33.2	35.0	37.0
95°	67.4	55.5	43.7	31.9	27.6	30.7	33.9	37.1	40.3	42.3	44.3
97.5°	153.9	148.6	143.3	137.9	124.9	104.1	83.4	62.6	41.8	44.1	46.5
100°	225.2	231.0	236.7	242.6	222.9	177.9	132.9	87.9	42.8	45.1	47.5
102.5°	292.2	296.3	300.4	304.7	282.2	233.0	183.8	134.6	85.4	78.3	71.1
105°	390.1	393.3	396.5	399.6	388.3	362.2	336.3	310.3	284.4	233.3	182.2
107.5°	493.9	496.4	499.0	501.5	504.8	509.0	513.0	517.2	521.2	483.7	446.4
110°	563.3	565.5	567.8	570.2	572.9	576.1	579.3	582.5	585.6	576.1	566.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	629.5	631.6	633.7	635.7	638.3	641.6	644.7	647.9	651.1	651.3	651.5
115°	727.6	729.3	731.0	732.8	735.0	737.5	740.1	742.8	745.4	748.2	751.1
117.5°	823.3	825.5	827.6	829.7	831.4	832.7	834.1	835.5	836.8	839.1	841.4
120°	883.0	885.6	888.2	890.8	892.5	893.3	894.2	895.1	896.0	898.3	900.6
122.5°	942.8	944.9	947.1	949.2	950.8	951.9	953.0	954.1	955.2	956.8	958.5
125°	1025.5	1027.8	1030.2	1032.5	1034.2	1035.3	1036.5	1037.6	1038.8	1039.4	1040.0
127.5°	1105.5	1107.8	1110.1	1112.5	1114.3	1115.7	1117.1	1118.4	1119.8	1120.7	1121.7
130°	1155.4	1157.7	1160.0	1162.4	1164.1	1165.2	1166.4	1167.5	1168.6	1169.8	1170.9
132.5°	1203.2	1205.5	1207.8	1210.1	1211.7	1212.6	1213.6	1214.5	1215.4	1216.6	1217.7
135°	1275.6	1277.3	1279.0	1280.8	1282.2	1283.3	1284.5	1285.7	1286.9	1287.7	1288.6
137.5°	1338.4	1340.6	1342.7	1344.9	1346.4	1347.0	1347.7	1348.3	1348.9	1350.3	1351.7
140°	1379.5	1381.2	1382.9	1384.6	1385.9	1386.8	1387.7	1388.6	1389.4	1390.6	1391.7
142.5°	1417.9	1419.7	1421.4	1423.1	1424.4	1425.2	1426.1	1426.9	1427.8	1428.8	1429.7
145°	1472.0	1474.0	1476.0	1478.0	1479.3	1479.9	1480.5	1481.1	1481.6	1482.2	1482.8
147.5°	1521.9	1523.2	1524.5	1525.9	1526.8	1527.4	1527.9	1528.5	1529.1	1529.7	1530.2
150°	1552.6	1553.5	1554.3	1555.2	1555.9	1556.5	1557.0	1557.6	1558.2	1558.8	1559.3
152.5°	1580.1	1580.5	1580.9	1581.3	1581.8	1582.2	1582.5	1582.8	1583.2	1584.2	1585.2
155°	1618.7	1618.1	1617.5	1616.9	1616.8	1617.1	1617.4	1617.7	1617.9	1619.4	1620.8
157.5°	1649.8	1649.8	1649.7	1649.6	1649.5	1649.2	1648.9	1648.6	1648.3	1650.0	1651.8
160°	1668.3	1668.0	1667.7	1667.4	1667.2	1666.9	1666.6	1666.3	1666.0	1667.7	1669.4
162.5°	1685.5	1684.8	1683.9	1683.2	1682.7	1682.4	1682.1	1681.8	1681.5	1683.5	1685.5
165°	1706.7	1705.8	1705.0	1704.0	1703.5	1703.2	1702.9	1702.6	1702.3	1704.7	1707.0
167.5°	1723.0	1721.8	1720.7	1719.5	1719.0	1719.0	1719.0	1719.0	1719.0	1721.3	1723.6
170°	1732.3	1731.2	1730.1	1728.9	1728.3	1728.3	1728.3	1728.3	1728.3	1730.6	1732.9
172.5°	1738.4	1737.0	1735.6	1734.2	1733.6	1733.8	1734.1	1734.3	1734.5	1736.9	1739.2
175°	1746.4	1744.9	1743.4	1742.0	1741.4	1741.7	1742.0	1742.3	1742.6	1744.6	1746.7
177.5°	1748.7	1747.6	1746.5	1745.2	1744.8	1745.0	1745.2	1745.5	1745.8	1747.6	1749.4
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1148.3	1148.7	1153.4	1156.8	1155.1	1157.2	1158.0
5°	1254.6	1273.6	1283.6	1291.0	1291.6	1292.1	1296.4
7.5°	1405.2	1425.6	1440.6	1463.2	1470.0	1477.6	1475.4
10°	1515.2	1545.3	1571.2	1585.0	1599.8	1621.4	1604.1
12.5°	1618.0	1671.4	1710.8	1732.2	1746.2	1750.5	1741.9
15°	1787.5	1857.2	1894.8	1893.7	1941.4	1962.0	1929.7
17.5°	1942.9	2007.3	2058.9	2085.4	2125.0	2133.7	2129.7
20°	2038.1	2108.4	2148.6	2194.0	2214.6	2233.1	2236.3
22.5°	2120.1	2183.2	2226.3	2264.2	2281.5	2290.3	2295.5
25°	2204.6	2254.3	2280.2	2293.4	2298.1	2297.1	2290.3
27.5°	2198.8	2202.6	2174.0	2146.1	2121.0	2092.7	2083.0
30°	2141.7	2097.3	2018.0	1973.1	1906.9	1854.6	1875.7
32.5°	1991.6	1903.2	1814.1	1715.9	1634.6	1611.4	1588.1
35°	1699.7	1544.3	1453.4	1347.6	1305.4	1263.0	1234.0
37.5°	1375.1	1254.9	1147.0	1077.8	1035.5	1008.8	994.3
40°	1189.0	1080.7	991.8	935.7	903.5	873.4	869.2
42.5°	1040.6	939.8	872.9	828.3	797.4	784.6	775.3
45°	852.2	781.9	737.0	705.3	684.7	676.7	666.1
47.5°	721.3	671.7	637.9	616.3	600.8	594.9	594.0
50°	648.1	606.9	582.1	565.1	553.0	550.9	542.4
52.5°	593.2	557.4	538.1	523.3	514.5	508.6	506.0
55°	514.9	491.1	473.7	465.2	458.4	452.5	452.5
57.5°	450.5	430.7	419.1	411.9	409.8	405.7	403.0
60°	410.8	393.8	384.9	378.5	374.4	374.9	370.1
62.5°	371.8	360.9	352.3	346.0	340.9	341.0	341.3
65°	316.7	308.2	301.8	299.7	296.6	292.9	294.0
67.5°	268.3	260.4	255.5	251.9	250.9	248.8	251.9
70°	233.7	227.8	224.2	221.0	219.9	220.5	223.1
72.5°	202.0	197.8	195.4	193.9	191.6	191.7	193.5
75°	158.6	155.4	153.3	151.7	151.2	151.2	151.2
77.5°	116.5	115.8	114.8	112.5	112.6	113.2	113.3
80°	92.0	90.4	89.9	88.9	87.3	86.1	88.9
82.5°	68.8	67.2	66.7	66.4	63.9	63.7	65.9
85°	37.0	35.4	36.0	35.4	35.4	34.9	34.9
87.5°	20.0	19.9	19.6	20.1	19.8	19.5	20.5
90°	34.6	35.7	36.7	37.3	37.8	38.4	39.0
92.5°	38.8	40.6	41.7	42.1	42.4	42.7	43.1
95°	46.4	48.4	49.4	49.4	49.4	49.4	49.4
97.5°	48.8	51.0	52.3	52.6	52.9	53.2	53.5
100°	49.8	52.1	53.4	53.6	53.9	54.2	54.5
102.5°	63.9	56.9	53.5	54.0	54.5	55.0	55.5
105°	131.2	80.1	54.8	55.4	55.9	56.6	57.2
107.5°	408.9	371.4	333.5	295.0	256.4	217.9	179.5
110°	557.0	547.5	522.1	480.9	439.6	398.4	357.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	651.6	651.8	647.5	638.7	630.1	621.4	612.7
115°	754.0	756.9	758.9	760.0	761.2	762.3	763.6
117.5°	843.6	846.0	847.3	847.5	847.7	848.0	848.2
120°	902.9	905.2	906.4	906.4	906.4	906.4	906.4
122.5°	960.1	961.7	962.6	962.8	963.0	963.3	963.5
125°	1040.6	1041.1	1041.7	1042.3	1042.9	1043.4	1044.0
127.5°	1122.6	1123.6	1123.7	1123.2	1122.6	1122.0	1121.4
130°	1172.2	1173.3	1173.6	1173.0	1172.5	1171.8	1171.2
132.5°	1218.9	1220.0	1220.2	1219.4	1218.6	1217.8	1217.0
135°	1289.4	1290.3	1290.3	1289.4	1288.6	1287.7	1286.9
137.5°	1353.0	1354.4	1354.8	1354.2	1353.7	1353.1	1352.5
140°	1392.9	1394.0	1394.3	1393.7	1393.1	1392.6	1392.0
142.5°	1430.6	1431.6	1431.6	1430.8	1430.0	1429.2	1428.4
145°	1483.3	1483.9	1484.2	1484.2	1484.2	1484.2	1484.2
147.5°	1530.9	1531.5	1531.1	1529.7	1528.4	1527.1	1525.7
150°	1559.9	1560.5	1560.3	1559.5	1558.6	1557.8	1556.9
152.5°	1586.3	1587.3	1587.2	1585.8	1584.5	1583.2	1581.9
155°	1622.2	1623.8	1623.6	1621.8	1620.1	1618.4	1616.7
157.5°	1653.6	1655.3	1655.0	1652.7	1650.5	1648.2	1646.0
160°	1671.2	1672.9	1672.7	1670.7	1668.7	1666.7	1664.7
162.5°	1687.5	1689.4	1689.5	1687.7	1686.0	1684.2	1682.3
165°	1709.3	1711.6	1711.7	1709.7	1707.7	1705.7	1703.6
167.5°	1725.9	1728.2	1728.2	1725.9	1723.6	1721.3	1719.0
170°	1735.3	1737.6	1737.6	1735.3	1732.9	1730.6	1728.3
172.5°	1741.5	1743.8	1743.6	1741.1	1738.6	1736.1	1733.5
175°	1748.7	1750.7	1750.5	1748.3	1746.0	1743.6	1741.3
177.5°	1751.3	1753.1	1752.9	1750.6	1748.3	1746.0	1743.6
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8

(END OF REPORT)