

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: P332228-927

Luminaire Tested: **S123DIW-S1165D1320U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332228-927  
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-S1165D1320U927-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1165 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: 8063.4 lumens  
Efficiency: N/A  
Efficacy: 105.8 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: General Diffuse

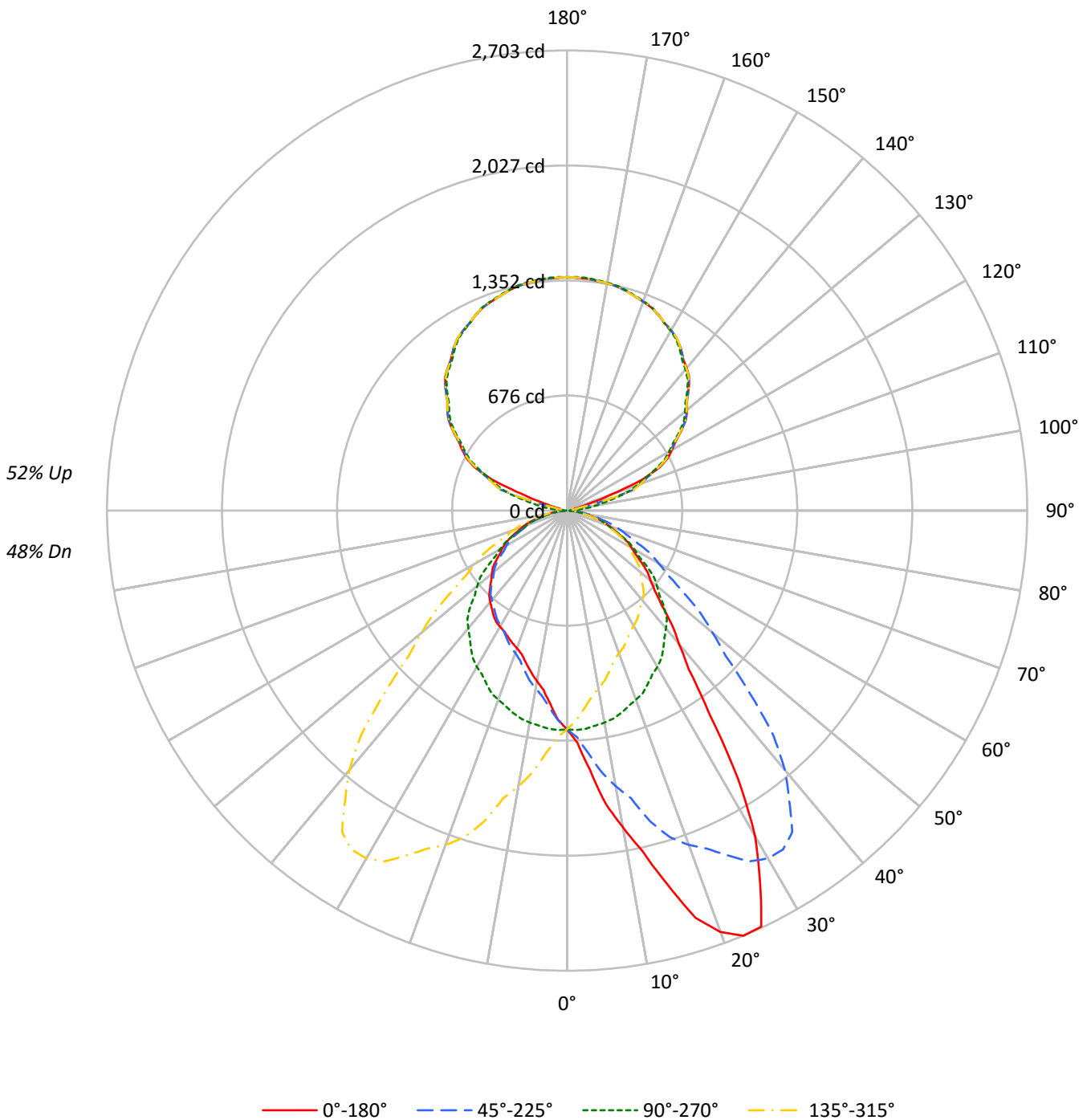
Input Watts (W): 76.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48
1	98	93	90	86	90	86	83	80	73	70	68	60	58	57	49	47	46				41	
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40				35	
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34				30	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29				26	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	31	31	28	26				22	
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20				18	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18				16	
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

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

	0°	90°	180°	270°
0°	13832	13832	13832	13832
5°	16495	13891	12310	13891
10°	20647	13821	11119	13821
15°	25324	13710	10351	13710
20°	30166	13536	9856	13536
25°	32033	13324	9745	13324
30°	27455	13170	9797	13170
35°	19094	12951	9900	12951
40°	14383	12694	9868	12694
45°	11942	12310	9742	12310
50°	10697	11531	9656	11531
55°	10001	10691	9533	10691
60°	9382	9810	9436	9810
65°	8818	8945	9133	8945
70°	8271	7956	8699	7956
75°	7407	6966	7977	6966
80°	6484	5709	6868	5709
85°	5076	4150	4619	4150



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	1.6
10°-20°	405.9	5.0
20°-30°	681.2	8.4
30°-40°	771.4	9.6
40°-50°	691.7	8.6
50°-60°	558.2	6.9
60°-70°	389.0	4.8
70°-80°	204.5	2.5
80°-90°	53.8	0.7
90°-100°	49.8	0.6
100°-110°	237.6	2.9
110°-120°	570.6	7.1
120°-130°	726.7	9.0
130°-140°	776.4	9.6
140°-150°	726.0	9.0
150°-160°	585.6	7.3
160°-170°	378.0	4.7
170°-180°	130.3	1.6
0°-30°	1213.7	15.1
0°-40°	1985.1	24.6
0°-60°	3235.0	40.1
0°-90°	3882.3	48.1
90°-120°	858.1	10.6
90°-150°	3087.2	38.3
90°-180°	4181.0	51.9
0°-180°	8063.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1285	1285	1285	1285	1285	
5°	1527	1286	1139	1286	1527	158
15°	2272	1230	929	1230	2272	656
25°	2697	1122	820	1122	2697	1183
35°	1453	986	753	986	1453	944
45°	784	809	640	809	784	621
55°	533	570	508	570	533	478
65°	346	351	359	351	346	345
75°	178	168	192	168	178	191
85°	41	34	37	34	41	49
90°	31	1	31	1	31	16
95°	39	62	39	62	39	32
105°	45	304	45	304	45	102
115°	599	569	599	569	599	553
125°	819	803	819	803	819	731
135°	1010	999	1010	999	1010	778
145°	1164	1153	1164	1153	1164	727
155°	1268	1270	1268	1270	1268	585
165°	1336	1340	1336	1340	1336	377
175°	1366	1371	1366	1371	1366	130
180°	1371	1371	1371	1371	1371	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1363.7	1362.7	1360.3	1362.2	1358.3	1352.7	1352.3	1347.3	1332.8	1331.8	1327.9
5°	1526.6	1521.6	1521.0	1520.4	1511.6	1499.8	1477.4	1475.5	1445.7	1430.7	1412.7
7.5°	1737.5	1740.1	1731.1	1723.1	1696.5	1678.9	1654.9	1624.1	1587.4	1550.1	1525.3
10°	1889.0	1909.5	1884.0	1866.5	1850.4	1819.8	1784.4	1740.1	1695.9	1644.3	1605.0
12.5°	2051.4	2061.4	2056.3	2039.9	2014.7	1968.3	1905.4	1856.7	1816.0	1730.0	1695.2
15°	2272.5	2310.5	2286.2	2230.2	2231.3	2187.1	2105.0	2014.7	1966.8	1891.4	1788.7
17.5°	2508.0	2512.8	2502.4	2455.8	2424.6	2363.9	2288.1	2201.5	2104.4	2013.3	1904.2
20°	2633.5	2629.8	2608.0	2583.8	2530.2	2482.9	2400.1	2303.6	2179.1	2089.5	1970.5
22.5°	2703.3	2697.1	2686.8	2666.4	2621.9	2571.0	2496.7	2391.3	2272.7	2149.2	2011.8
25°	2697.1	2705.1	2706.4	2700.8	2685.3	2654.8	2596.2	2512.2	2393.9	2235.1	2091.9
27.5°	2453.0	2464.5	2497.8	2527.2	2560.3	2593.8	2589.3	2547.7	2460.1	2323.0	2147.9
30°	2208.9	2184.0	2245.7	2323.5	2376.5	2469.8	2522.1	2525.2	2476.0	2358.4	2187.8
32.5°	1870.3	1897.7	1924.9	2020.7	2136.4	2241.2	2345.3	2429.1	2438.7	2360.4	2211.2
35°	1453.1	1487.4	1537.2	1587.0	1711.5	1818.6	2001.6	2161.0	2288.1	2304.9	2213.3
37.5°	1171.0	1187.9	1219.4	1269.3	1350.8	1477.8	1619.4	1820.8	2004.9	2141.7	2147.7
40°	1023.6	1028.5	1064.0	1102.0	1168.0	1272.6	1400.2	1578.3	1798.6	1989.8	2069.5
42.5°	913.0	923.9	939.0	975.5	1028.0	1106.8	1225.4	1372.5	1574.5	1794.5	1950.4
45°	784.5	796.9	806.3	830.5	867.9	920.8	1003.6	1138.1	1291.9	1519.1	1728.9
47.5°	699.6	700.5	707.5	725.8	751.2	790.9	849.5	935.9	1077.1	1261.4	1476.8
50°	638.8	648.7	651.3	665.5	685.5	714.7	763.3	836.8	952.6	1114.4	1312.4
52.5°	596.0	599.0	605.9	616.2	633.7	656.5	698.5	756.1	847.0	984.9	1167.0
55°	532.9	532.9	539.8	547.9	557.9	578.4	606.4	648.7	717.9	824.9	975.6
57.5°	474.7	477.8	482.6	485.1	493.6	507.2	530.6	562.7	614.3	696.6	816.5
60°	435.8	441.4	440.8	445.8	453.3	463.8	483.8	509.9	556.0	621.9	722.9
62.5°	402.0	401.6	401.5	407.4	414.9	425.0	437.9	460.6	499.7	558.3	644.1
65°	346.2	344.9	349.3	353.0	355.5	363.0	373.0	392.8	419.0	462.6	529.2
67.5°	296.6	293.0	295.3	296.6	300.9	306.7	316.0	328.4	349.1	384.1	434.4
70°	262.8	259.6	259.0	260.2	264.0	268.3	275.2	287.0	306.3	334.3	371.1
72.5°	227.8	225.8	225.6	228.4	230.1	233.0	237.8	248.7	264.0	285.0	319.2
75°	178.1	178.1	178.1	178.7	180.5	183.1	186.8	192.3	204.2	219.1	242.2
77.5°	133.5	133.3	132.6	132.5	135.2	136.3	137.2	142.4	149.0	159.1	175.9
80°	104.6	101.5	102.7	104.6	105.8	106.5	108.4	109.6	115.2	120.8	132.6
82.5°	77.7	75.1	75.3	78.2	78.4	79.1	81.0	82.7	84.8	89.9	96.3
85°	41.1	41.1	41.7	41.7	42.3	41.7	43.6	44.2	44.2	47.3	51.0
87.5°	21.1	20.0	20.4	20.8	20.2	20.5	20.8	21.2	21.5	21.8	21.7
90°	30.6	30.1	29.6	29.2	28.8	28.0	27.2	26.2	25.3	24.5	21.5
92.5°	33.8	33.5	33.3	33.0	32.7	31.8	30.4	29.0	27.5	26.1	23.8
95°	38.7	38.7	38.7	38.7	38.7	37.9	36.4	34.8	33.2	31.6	29.1
97.5°	42.0	41.7	41.5	41.3	41.0	40.0	38.3	36.4	34.6	32.8	49.1
100°	42.8	42.5	42.3	42.1	41.9	40.9	39.1	37.2	35.4	33.6	68.9
102.5°	43.6	43.2	42.8	42.4	42.0	44.6	50.1	55.8	61.4	67.0	105.6
105°	44.8	44.4	43.9	43.5	43.0	62.8	102.9	142.9	183.0	223.1	243.4
107.5°	140.8	171.0	201.1	231.4	261.6	291.4	320.8	350.1	379.5	408.8	405.7
110°	280.1	312.5	344.8	377.2	409.6	429.5	437.0	444.4	451.9	459.4	456.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	480.6	487.4	494.2	501.1	507.9	511.3	511.1	511.0	510.9	510.7	508.3
115°	599.0	598.0	597.1	596.2	595.3	593.7	591.4	589.2	586.9	584.7	582.7
117.5°	665.4	665.2	665.0	664.8	664.6	663.6	661.8	660.0	658.2	656.4	655.4
120°	711.0	711.0	711.0	711.0	711.0	710.1	708.3	706.5	704.6	702.8	702.2
122.5°	755.8	755.7	755.4	755.3	755.1	754.4	753.1	751.9	750.6	749.3	748.5
125°	819.0	818.5	818.1	817.6	817.1	816.7	816.3	815.8	815.3	814.9	814.0
127.5°	879.6	880.1	880.6	881.1	881.5	881.4	880.6	879.9	879.2	878.5	877.3
130°	918.8	919.2	919.7	920.1	920.6	920.4	919.5	918.5	917.7	916.7	915.8
132.5°	954.7	955.3	955.9	956.6	957.2	957.0	956.2	955.2	954.3	953.4	952.7
135°	1009.5	1010.1	1010.8	1011.5	1012.2	1012.2	1011.5	1010.8	1010.1	1009.5	1008.5
137.5°	1061.0	1061.4	1061.9	1062.3	1062.8	1062.5	1061.4	1060.3	1059.2	1058.1	1057.6
140°	1091.9	1092.4	1092.8	1093.3	1093.8	1093.5	1092.7	1091.7	1090.8	1089.9	1089.3
142.5°	1120.5	1121.1	1121.7	1122.4	1123.0	1123.0	1122.2	1121.5	1120.8	1120.1	1119.4
145°	1164.3	1164.3	1164.3	1164.3	1164.3	1164.0	1163.6	1163.2	1162.7	1162.2	1161.8
147.5°	1196.8	1197.9	1199.0	1200.0	1201.0	1201.3	1200.9	1200.4	1200.0	1199.5	1199.0
150°	1221.3	1222.0	1222.7	1223.4	1224.0	1224.2	1223.7	1223.2	1222.8	1222.3	1221.9
152.5°	1240.9	1241.9	1242.9	1244.0	1245.1	1245.2	1244.4	1243.5	1242.7	1241.9	1241.6
155°	1268.2	1269.6	1270.9	1272.2	1273.6	1273.7	1272.6	1271.5	1270.3	1269.2	1269.0
157.5°	1291.2	1292.9	1294.7	1296.5	1298.2	1298.5	1297.1	1295.8	1294.3	1293.0	1293.2
160°	1305.8	1307.4	1309.0	1310.6	1312.2	1312.3	1311.0	1309.6	1308.2	1306.9	1307.1
162.5°	1319.7	1321.1	1322.5	1323.9	1325.3	1325.2	1323.7	1322.2	1320.6	1319.1	1319.3
165°	1336.4	1338.0	1339.6	1341.2	1342.7	1342.7	1340.8	1339.0	1337.2	1335.4	1335.6
167.5°	1348.5	1350.3	1352.1	1353.8	1355.7	1355.7	1353.8	1352.1	1350.3	1348.5	1348.5
170°	1355.7	1357.6	1359.4	1361.2	1363.0	1363.0	1361.2	1359.4	1357.6	1355.7	1355.7
172.5°	1359.9	1361.8	1363.8	1365.8	1367.8	1367.9	1366.1	1364.3	1362.5	1360.7	1360.5
175°	1366.0	1367.8	1369.6	1371.4	1373.2	1373.3	1371.7	1370.2	1368.6	1367.0	1366.8
177.5°	1367.8	1369.6	1371.4	1373.2	1375.1	1375.2	1373.8	1372.3	1370.9	1369.4	1369.2
180°	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1324.8	1320.9	1316.9	1310.0	1303.9	1295.5	1293.0	1290.0	1281.0	1273.1	1267.1
5°	1405.8	1390.8	1369.0	1349.2	1333.0	1311.2	1298.7	1285.6	1266.9	1250.1	1236.4
7.5°	1490.5	1461.1	1427.2	1390.6	1356.5	1323.7	1297.1	1273.4	1247.3	1222.5	1203.2
10°	1557.7	1515.4	1468.1	1417.1	1373.4	1331.1	1295.6	1264.5	1230.9	1201.6	1177.3
12.5°	1634.4	1571.7	1506.4	1444.4	1392.9	1334.1	1291.1	1251.6	1213.5	1178.2	1151.0
15°	1725.2	1645.5	1568.3	1483.0	1404.5	1331.1	1280.1	1230.3	1186.1	1149.9	1115.1
17.5°	1807.9	1717.6	1615.9	1512.1	1417.5	1330.4	1258.9	1202.6	1147.3	1103.1	1068.3
20°	1854.7	1752.0	1636.8	1529.1	1424.5	1327.4	1249.0	1181.7	1121.9	1075.2	1036.0
22.5°	1895.1	1774.9	1655.7	1540.6	1424.0	1319.4	1230.5	1161.3	1096.5	1050.8	1009.1
25°	1936.9	1793.1	1673.6	1538.4	1408.3	1300.0	1200.4	1121.9	1057.2	1003.6	960.7
27.5°	1972.8	1791.8	1650.0	1504.7	1383.6	1275.1	1168.7	1084.6	1015.8	957.7	914.1
30°	1996.6	1794.3	1625.6	1481.8	1359.8	1247.7	1144.3	1059.6	987.5	928.3	887.2
32.5°	2011.6	1792.8	1603.1	1449.9	1321.9	1222.7	1117.9	1030.2	956.1	897.9	858.3
35°	2020.3	1781.9	1564.6	1384.0	1260.8	1164.3	1076.5	985.6	907.8	853.6	808.7
37.5°	2002.9	1758.8	1519.7	1320.5	1185.6	1090.5	1016.7	939.2	864.7	805.2	766.5
40°	1975.5	1743.9	1484.9	1275.7	1133.8	1042.2	979.4	903.4	829.9	773.2	737.1
42.5°	1923.2	1713.5	1446.5	1225.9	1080.0	988.4	930.5	867.0	797.6	744.3	708.3
45°	1795.6	1647.3	1389.0	1151.2	1000.5	905.9	854.8	808.7	745.8	694.2	663.1
47.5°	1618.5	1547.9	1305.8	1072.4	917.6	826.6	773.5	736.4	690.5	648.7	618.9
50°	1495.5	1466.2	1249.5	1018.6	862.3	773.2	722.2	688.6	655.6	613.9	586.5
52.5°	1353.5	1371.6	1183.8	962.7	806.0	718.5	670.4	643.7	613.8	579.5	555.6
55°	1153.7	1219.0	1070.2	869.1	722.2	638.8	593.3	569.7	552.2	526.7	506.2
57.5°	966.5	1049.7	947.5	772.6	639.9	567.9	524.3	498.6	487.4	474.0	457.9
60°	855.5	937.6	859.8	707.9	584.6	516.1	477.5	455.7	444.5	435.2	421.5
62.5°	756.3	839.5	774.1	642.1	530.3	466.8	433.2	411.9	403.2	398.3	386.7
65°	620.1	691.7	648.1	539.8	452.7	396.6	366.1	351.2	343.0	341.2	333.7
67.5°	504.7	559.2	527.4	447.7	379.1	330.7	304.8	292.2	285.9	285.3	279.6
70°	429.0	480.0	455.7	383.5	324.4	286.4	264.0	252.8	249.1	248.4	245.3
72.5°	370.2	405.8	386.5	326.2	280.5	246.1	229.6	217.9	213.7	214.5	212.5
75°	273.9	300.7	289.5	247.8	211.0	188.6	174.9	167.5	163.7	165.6	163.1
77.5°	197.1	214.0	204.0	175.1	152.4	136.3	126.1	121.5	118.2	118.0	116.9
80°	148.8	158.8	153.1	135.7	117.1	103.4	95.2	92.1	90.3	89.7	89.0
82.5°	106.0	114.5	107.8	95.9	83.2	74.9	70.3	66.2	64.9	65.3	64.6
85°	53.6	56.6	54.2	46.7	41.7	37.9	35.5	33.6	32.4	33.0	31.8
87.5°	22.1	22.0	20.0	17.4	16.0	14.0	13.6	12.1	11.6	12.0	12.0
90°	18.5	15.6	12.7	10.1	7.8	5.5	3.2	1.0	3.2	5.5	7.8
92.5°	21.6	19.4	17.2	16.4	17.0	17.7	18.3	18.9	18.3	17.7	17.0
95°	26.6	24.1	21.6	25.0	34.3	43.6	52.8	62.1	52.8	43.6	34.3
97.5°	65.4	81.7	98.0	108.2	112.4	116.5	120.7	124.8	120.7	116.5	112.4
100°	104.3	139.6	174.8	190.3	185.7	181.2	176.7	172.1	176.7	181.2	185.7
102.5°	144.2	182.8	221.3	239.0	235.7	232.4	229.2	225.9	229.2	232.4	235.7
105°	263.8	284.2	304.6	313.5	311.0	308.6	306.0	303.6	306.0	308.6	311.0
107.5°	402.4	399.3	396.0	393.4	391.4	389.4	387.5	385.5	387.5	389.4	391.4
110°	454.4	451.9	449.4	447.3	445.4	443.6	441.9	440.1	441.9	443.6	445.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	505.7	503.3	500.7	498.7	497.1	495.4	493.8	492.2	493.8	495.4	497.1
115°	580.6	578.5	576.6	574.8	573.5	572.1	570.8	569.4	570.8	572.1	573.5
117.5°	654.3	653.2	652.2	650.9	649.2	647.5	645.9	644.2	645.9	647.5	649.2
120°	701.5	700.8	700.1	698.8	696.7	694.7	692.7	690.6	692.7	694.7	696.7
122.5°	747.6	746.7	745.8	744.6	742.9	741.2	739.6	737.9	739.6	741.2	742.9
125°	813.1	812.1	811.3	809.9	808.1	806.3	804.5	802.6	804.5	806.3	808.1
127.5°	876.3	875.2	874.1	872.7	870.8	869.0	867.2	865.4	867.2	869.0	870.8
130°	915.0	914.0	913.1	911.8	910.0	908.2	906.3	904.5	906.3	908.2	910.0
132.5°	952.0	951.3	950.5	949.3	947.5	945.6	943.8	942.0	943.8	945.6	947.5
135°	1007.7	1006.7	1005.8	1004.7	1003.3	1002.0	1000.6	999.3	1000.6	1002.0	1003.3
137.5°	1057.2	1056.6	1056.1	1055.0	1053.3	1051.6	1049.9	1048.1	1049.9	1051.6	1053.3
140°	1088.5	1087.9	1087.2	1086.2	1084.8	1083.5	1082.1	1080.8	1082.1	1083.5	1084.8
142.5°	1118.7	1118.0	1117.4	1116.3	1115.0	1113.6	1112.2	1110.9	1112.2	1113.6	1115.0
145°	1161.3	1160.9	1160.4	1159.4	1157.9	1156.3	1154.7	1153.1	1154.7	1156.3	1157.9
147.5°	1198.6	1198.2	1197.7	1197.0	1195.9	1194.8	1193.8	1192.8	1193.8	1194.8	1195.9
150°	1221.4	1221.0	1220.5	1220.0	1219.2	1218.6	1217.9	1217.3	1217.9	1218.6	1219.2
152.5°	1241.3	1241.1	1240.8	1240.5	1240.2	1239.8	1239.5	1239.2	1239.5	1239.8	1240.2
155°	1268.8	1268.5	1268.3	1268.4	1268.8	1269.3	1269.8	1270.2	1269.8	1269.3	1268.8
157.5°	1293.5	1293.7	1294.0	1294.0	1294.1	1294.2	1294.2	1294.3	1294.2	1294.2	1294.1
160°	1307.3	1307.6	1307.8	1308.0	1308.2	1308.4	1308.7	1308.9	1308.7	1308.4	1308.2
162.5°	1319.5	1319.8	1320.0	1320.4	1321.0	1321.6	1322.2	1322.8	1322.2	1321.6	1321.0
165°	1335.9	1336.1	1336.3	1336.7	1337.4	1338.1	1338.8	1339.5	1338.8	1338.1	1337.4
167.5°	1348.5	1348.5	1348.5	1348.8	1349.8	1350.7	1351.6	1352.5	1351.6	1350.7	1349.8
170°	1355.7	1355.7	1355.7	1356.2	1357.2	1358.0	1358.9	1359.9	1358.9	1358.0	1357.2
172.5°	1360.3	1360.1	1359.9	1360.4	1361.4	1362.6	1363.7	1364.8	1363.7	1362.6	1361.4
175°	1366.5	1366.3	1366.0	1366.5	1367.6	1368.8	1369.9	1371.0	1369.9	1368.8	1367.6
177.5°	1369.0	1368.9	1368.7	1369.0	1370.0	1370.9	1371.7	1372.7	1371.7	1370.9	1370.0
180°	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1263.6	1260.1	1255.1	1247.7	1241.7	1232.2	1232.2	1233.7	1233.7	1233.3	1232.2
5°	1225.3	1215.9	1204.8	1191.7	1178.0	1164.3	1161.7	1156.7	1153.0	1150.6	1147.5
7.5°	1184.8	1168.2	1151.9	1133.6	1116.9	1103.1	1093.5	1085.5	1080.5	1075.0	1071.0
10°	1157.4	1136.9	1117.5	1098.3	1077.1	1060.3	1049.7	1042.2	1036.6	1031.7	1029.1
12.5°	1125.1	1101.5	1080.2	1061.9	1038.7	1021.4	1011.4	1007.8	1001.2	990.8	985.3
15°	1077.7	1055.9	1030.4	1002.3	991.2	970.0	958.1	952.6	948.8	940.7	938.3
17.5°	1037.2	1008.7	980.1	959.2	938.3	921.1	914.6	907.6	902.6	896.0	894.1
20°	1004.9	979.4	953.2	930.8	908.9	890.3	884.7	879.7	874.7	871.6	869.1
22.5°	972.0	946.5	924.8	903.9	880.6	868.4	862.3	856.8	853.3	851.2	848.7
25°	925.8	903.4	879.1	860.4	841.8	833.6	829.9	826.8	824.3	821.2	820.5
27.5°	884.5	860.1	840.3	822.9	809.5	802.8	799.2	797.6	798.2	799.3	800.0
30°	853.6	831.2	815.0	800.0	787.6	781.3	780.7	780.7	783.2	783.9	785.1
32.5°	825.2	806.8	790.6	776.1	766.7	762.4	764.8	764.8	766.8	768.4	770.6
35°	783.9	767.6	755.2	742.8	734.7	736.5	737.8	739.0	742.1	745.8	748.4
37.5°	744.3	730.3	717.3	707.7	703.9	707.3	710.3	712.9	716.4	719.4	721.8
40°	716.0	705.4	692.9	684.2	685.5	687.4	689.8	692.9	696.1	697.9	700.4
42.5°	689.6	678.5	669.1	661.8	663.5	665.9	667.4	669.1	672.6	676.0	677.5
45°	649.4	640.6	631.9	627.6	628.8	630.1	631.3	633.2	636.3	638.8	639.4
47.5°	604.2	598.1	592.2	588.0	589.9	589.5	591.1	595.1	596.0	597.5	601.0
50°	575.3	569.7	562.8	561.6	561.6	561.6	562.2	567.2	567.2	569.7	572.2
52.5°	543.4	539.8	535.4	533.2	532.2	532.2	534.8	537.3	538.3	541.8	544.3
55°	496.2	492.5	488.7	486.9	485.6	486.9	491.9	493.1	496.2	498.0	499.9
57.5°	447.0	444.2	441.2	440.1	439.9	441.6	444.3	448.0	448.8	454.5	457.3
60°	414.6	410.3	407.8	407.8	406.5	412.2	410.9	417.2	418.4	422.2	426.5
62.5°	381.3	375.4	374.5	374.5	376.2	377.8	379.5	382.3	385.5	390.2	393.6
65°	327.5	324.4	328.8	328.1	326.9	330.6	330.6	333.7	337.5	341.8	348.6
67.5°	276.6	275.0	275.3	275.3	277.2	279.3	281.1	283.8	288.3	292.9	297.4
70°	242.2	244.1	241.0	243.4	245.3	245.9	247.2	250.9	255.9	259.0	264.0
72.5°	208.8	208.7	209.1	210.1	211.9	213.0	214.3	218.6	224.0	226.6	230.6
75°	160.7	160.0	161.8	161.8	165.0	166.2	167.5	169.4	174.4	178.1	181.2
77.5°	117.3	118.0	117.6	119.8	118.9	119.1	123.0	124.9	125.4	132.8	134.4
80°	88.4	89.7	90.3	90.9	91.5	90.3	94.7	96.5	96.5	100.8	103.9
82.5°	63.5	64.2	65.9	66.5	66.6	67.9	68.2	69.6	71.1	73.0	77.1
85°	31.8	33.6	34.2	33.6	34.2	33.0	34.9	35.5	36.1	36.1	36.1
87.5°	12.0	13.0	13.1	14.2	14.3	15.4	15.5	14.7	14.9	16.6	14.7
90°	10.1	12.7	15.6	18.5	21.5	24.5	25.3	26.2	27.2	28.0	28.8
92.5°	16.4	17.2	19.4	21.6	23.8	26.1	27.5	29.0	30.4	31.8	32.7
95°	25.0	21.6	24.1	26.6	29.1	31.6	33.2	34.8	36.4	37.9	38.7
97.5°	108.2	98.0	81.7	65.4	49.1	32.8	34.6	36.4	38.3	40.0	41.0
100°	190.3	174.8	139.6	104.3	68.9	33.6	35.4	37.2	39.1	40.9	41.9
102.5°	239.0	221.3	182.8	144.2	105.6	67.0	61.4	55.8	50.1	44.6	42.0
105°	313.5	304.6	284.2	263.8	243.4	223.1	183.0	142.9	102.9	62.8	43.0
107.5°	393.4	396.0	399.3	402.4	405.7	408.8	379.5	350.1	320.8	291.4	261.6
110°	447.3	449.4	451.9	454.4	456.9	459.4	451.9	444.4	437.0	429.5	409.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	498.7	500.7	503.3	505.7	508.3	510.7	510.9	511.0	511.1	511.3	507.9
115°	574.8	576.6	578.5	580.6	582.7	584.7	586.9	589.2	591.4	593.7	595.3
117.5°	650.9	652.2	653.2	654.3	655.4	656.4	658.2	660.0	661.8	663.6	664.6
120°	698.8	700.1	700.8	701.5	702.2	702.8	704.6	706.5	708.3	710.1	711.0
122.5°	744.6	745.8	746.7	747.6	748.5	749.3	750.6	751.9	753.1	754.4	755.1
125°	809.9	811.3	812.1	813.1	814.0	814.9	815.3	815.8	816.3	816.7	817.1
127.5°	872.7	874.1	875.2	876.3	877.3	878.5	879.2	879.9	880.6	881.4	881.5
130°	911.8	913.1	914.0	915.0	915.8	916.7	917.7	918.5	919.5	920.4	920.6
132.5°	949.3	950.5	951.3	952.0	952.7	953.4	954.3	955.2	956.2	957.0	957.2
135°	1004.7	1005.8	1006.7	1007.7	1008.5	1009.5	1010.1	1010.8	1011.5	1012.2	1012.2
137.5°	1055.0	1056.1	1056.6	1057.2	1057.6	1058.1	1059.2	1060.3	1061.4	1062.5	1062.8
140°	1086.2	1087.2	1087.9	1088.5	1089.3	1089.9	1090.8	1091.7	1092.7	1093.5	1093.8
142.5°	1116.3	1117.4	1118.0	1118.7	1119.4	1120.1	1120.8	1121.5	1122.2	1123.0	1123.0
145°	1159.4	1160.4	1160.9	1161.3	1161.8	1162.2	1162.7	1163.2	1163.6	1164.0	1164.3
147.5°	1197.0	1197.7	1198.2	1198.6	1199.0	1199.5	1200.0	1200.4	1200.9	1201.3	1201.0
150°	1220.0	1220.5	1221.0	1221.4	1221.9	1222.3	1222.8	1223.2	1223.7	1224.2	1224.0
152.5°	1240.5	1240.8	1241.1	1241.3	1241.6	1241.9	1242.7	1243.5	1244.4	1245.2	1245.1
155°	1268.4	1268.3	1268.5	1268.8	1269.0	1269.2	1270.3	1271.5	1272.6	1273.7	1273.6
157.5°	1294.0	1294.0	1293.7	1293.5	1293.2	1293.0	1294.3	1295.8	1297.1	1298.5	1298.2
160°	1308.0	1307.8	1307.6	1307.3	1307.1	1306.9	1308.2	1309.6	1311.0	1312.3	1312.2
162.5°	1320.4	1320.0	1319.8	1319.5	1319.3	1319.1	1320.6	1322.2	1323.7	1325.2	1325.3
165°	1336.7	1336.3	1336.1	1335.9	1335.6	1335.4	1337.2	1339.0	1340.8	1342.7	1342.7
167.5°	1348.8	1348.5	1348.5	1348.5	1348.5	1348.5	1350.3	1352.1	1353.8	1355.7	1355.7
170°	1356.2	1355.7	1355.7	1355.7	1355.7	1355.7	1357.6	1359.4	1361.2	1363.0	1363.0
172.5°	1360.4	1359.9	1360.1	1360.3	1360.5	1360.7	1362.5	1364.3	1366.1	1367.9	1367.8
175°	1366.5	1366.0	1366.3	1366.5	1366.8	1367.0	1368.6	1370.2	1371.7	1373.3	1373.2
177.5°	1369.0	1368.7	1368.9	1369.0	1369.2	1369.4	1370.9	1372.3	1373.8	1375.2	1375.1
180°	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1228.8	1228.3	1231.8	1229.2	1231.8	1228.3	1228.8	1232.2	1233.3	1233.7	1233.7
5°	1143.7	1145.6	1139.3	1139.3	1139.3	1145.6	1143.7	1147.5	1150.6	1153.0	1156.7
7.5°	1068.0	1065.2	1065.5	1062.2	1065.5	1065.2	1068.0	1071.0	1075.0	1080.5	1085.5
10°	1021.7	1018.0	1016.7	1017.3	1016.7	1018.0	1021.7	1029.1	1031.7	1036.6	1042.2
12.5°	983.3	982.5	974.4	974.5	974.4	982.5	983.3	985.3	990.8	1001.2	1007.8
15°	938.3	926.5	925.2	928.9	925.2	926.5	938.3	938.3	940.7	948.8	952.6
17.5°	893.0	886.8	887.2	885.3	887.2	886.8	893.0	894.1	896.0	902.6	907.6
20°	869.1	865.4	864.7	860.4	864.7	865.4	869.1	869.1	871.6	874.7	879.7
22.5°	847.2	846.0	846.4	841.5	846.4	846.0	847.2	848.7	851.2	853.3	856.8
25°	820.0	823.1	820.5	820.5	820.5	823.1	820.0	820.5	821.2	824.3	826.8
27.5°	801.5	801.4	800.2	800.2	800.2	801.4	801.5	800.0	799.3	798.2	797.6
30°	787.6	787.0	788.2	788.2	788.2	787.0	787.6	785.1	783.9	783.2	780.7
32.5°	773.6	774.5	774.8	775.2	774.8	774.5	773.6	770.6	768.4	766.8	764.8
35°	752.1	752.7	754.6	753.4	754.6	752.7	752.1	748.4	745.8	742.1	739.0
37.5°	722.9	725.8	725.2	726.2	725.2	725.8	722.9	721.8	719.4	716.4	712.9
40°	701.0	702.9	702.3	702.3	702.3	702.9	701.0	700.4	697.9	696.1	692.9
42.5°	678.7	680.0	678.3	677.4	678.3	680.0	678.7	677.5	676.0	672.6	669.1
45°	641.9	640.6	642.5	640.0	642.5	640.6	641.9	639.4	638.8	636.3	633.2
47.5°	600.8	602.1	602.5	604.4	602.5	602.1	600.8	601.0	597.5	596.0	595.1
50°	573.4	577.1	577.1	576.6	577.1	577.1	573.4	572.2	569.7	567.2	567.2
52.5°	546.5	548.3	550.7	550.6	550.7	548.3	546.5	544.3	541.8	538.3	537.3
55°	504.9	506.2	507.4	508.0	507.4	506.2	504.9	499.9	498.0	496.2	493.1
57.5°	461.8	461.4	464.3	465.2	464.3	461.4	461.8	457.3	454.5	448.8	448.0
60°	431.4	431.4	436.4	438.3	436.4	431.4	431.4	426.5	422.2	418.4	417.2
62.5°	399.1	401.1	406.1	403.5	406.1	401.1	399.1	393.6	390.2	385.5	382.3
65°	351.7	356.7	356.1	358.6	356.1	356.7	351.7	348.6	341.8	337.5	333.7
67.5°	302.3	305.5	309.9	310.3	309.9	305.5	302.3	297.4	292.9	288.3	283.8
70°	268.9	272.0	274.6	276.4	274.6	272.0	268.9	264.0	259.0	255.9	250.9
72.5°	236.6	238.2	244.2	241.5	244.2	238.2	236.6	230.6	226.6	224.0	218.6
75°	185.5	189.9	193.6	191.8	193.6	189.9	185.5	181.2	178.1	174.4	169.4
77.5°	137.2	141.6	143.3	141.7	143.3	141.6	137.2	134.4	132.8	125.4	124.9
80°	108.4	107.7	111.5	110.8	111.5	107.7	108.4	103.9	100.8	96.5	96.5
82.5°	79.5	78.8	80.6	81.0	80.6	78.8	79.5	77.1	73.0	71.1	69.6
85°	38.6	40.5	37.9	37.4	37.9	40.5	38.6	36.1	36.1	36.1	35.5
87.5°	14.8	14.9	14.5	14.1	14.5	14.9	14.8	14.7	16.6	14.9	14.7
90°	29.2	29.6	30.1	30.6	30.1	29.6	29.2	28.8	28.0	27.2	26.2
92.5°	33.0	33.3	33.5	33.8	33.5	33.3	33.0	32.7	31.8	30.4	29.0
95°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	37.9	36.4	34.8
97.5°	41.3	41.5	41.7	42.0	41.7	41.5	41.3	41.0	40.0	38.3	36.4
100°	42.1	42.3	42.5	42.8	42.5	42.3	42.1	41.9	40.9	39.1	37.2
102.5°	42.4	42.8	43.2	43.6	43.2	42.8	42.4	42.0	44.6	50.1	55.8
105°	43.5	43.9	44.4	44.8	44.4	43.9	43.5	43.0	62.8	102.9	142.9
107.5°	231.4	201.1	171.0	140.8	171.0	201.1	231.4	261.6	291.4	320.8	350.1
110°	377.2	344.8	312.5	280.1	312.5	344.8	377.2	409.6	429.5	437.0	444.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	501.1	494.2	487.4	480.6	487.4	494.2	501.1	507.9	511.3	511.1	511.0
115°	596.2	597.1	598.0	599.0	598.0	597.1	596.2	595.3	593.7	591.4	589.2
117.5°	664.8	665.0	665.2	665.4	665.2	665.0	664.8	664.6	663.6	661.8	660.0
120°	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	710.1	708.3	706.5
122.5°	755.3	755.4	755.7	755.8	755.7	755.4	755.3	755.1	754.4	753.1	751.9
125°	817.6	818.1	818.5	819.0	818.5	818.1	817.6	817.1	816.7	816.3	815.8
127.5°	881.1	880.6	880.1	879.6	880.1	880.6	881.1	881.5	881.4	880.6	879.9
130°	920.1	919.7	919.2	918.8	919.2	919.7	920.1	920.6	920.4	919.5	918.5
132.5°	956.6	955.9	955.3	954.7	955.3	955.9	956.6	957.2	957.0	956.2	955.2
135°	1011.5	1010.8	1010.1	1009.5	1010.1	1010.8	1011.5	1012.2	1012.2	1011.5	1010.8
137.5°	1062.3	1061.9	1061.4	1061.0	1061.4	1061.9	1062.3	1062.8	1062.5	1061.4	1060.3
140°	1093.3	1092.8	1092.4	1091.9	1092.4	1092.8	1093.3	1093.8	1093.5	1092.7	1091.7
142.5°	1122.4	1121.7	1121.1	1120.5	1121.1	1121.7	1122.4	1123.0	1123.0	1122.2	1121.5
145°	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.0	1163.6	1163.2
147.5°	1200.0	1199.0	1197.9	1196.8	1197.9	1199.0	1200.0	1201.0	1201.3	1200.9	1200.4
150°	1223.4	1222.7	1222.0	1221.3	1222.0	1222.7	1223.4	1224.0	1224.2	1223.7	1223.2
152.5°	1244.0	1242.9	1241.9	1240.9	1241.9	1242.9	1244.0	1245.1	1245.2	1244.4	1243.5
155°	1272.2	1270.9	1269.6	1268.2	1269.6	1270.9	1272.2	1273.6	1273.7	1272.6	1271.5
157.5°	1296.5	1294.7	1292.9	1291.2	1292.9	1294.7	1296.5	1298.2	1298.5	1297.1	1295.8
160°	1310.6	1309.0	1307.4	1305.8	1307.4	1309.0	1310.6	1312.2	1312.3	1311.0	1309.6
162.5°	1323.9	1322.5	1321.1	1319.7	1321.1	1322.5	1323.9	1325.3	1325.2	1323.7	1322.2
165°	1341.2	1339.6	1338.0	1336.4	1338.0	1339.6	1341.2	1342.7	1342.7	1340.8	1339.0
167.5°	1353.8	1352.1	1350.3	1348.5	1350.3	1352.1	1353.8	1355.7	1355.7	1353.8	1352.1
170°	1361.2	1359.4	1357.6	1355.7	1357.6	1359.4	1361.2	1363.0	1363.0	1361.2	1359.4
172.5°	1365.8	1363.8	1361.8	1359.9	1361.8	1363.8	1365.8	1367.8	1367.9	1366.1	1364.3
175°	1371.4	1369.6	1367.8	1366.0	1367.8	1369.6	1371.4	1373.2	1373.3	1371.7	1370.2
177.5°	1373.2	1371.4	1369.6	1367.8	1369.6	1371.4	1373.2	1375.1	1375.2	1373.8	1372.3
180°	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1232.2	1232.2	1241.7	1247.7	1255.1	1260.1	1263.6	1267.1	1273.1	1281.0	1290.0
5°	1161.7	1164.3	1178.0	1191.7	1204.8	1215.9	1225.3	1236.4	1250.1	1266.9	1285.6
7.5°	1093.5	1103.1	1116.9	1133.6	1151.9	1168.2	1184.8	1203.2	1222.5	1247.3	1273.4
10°	1049.7	1060.3	1077.1	1098.3	1117.5	1136.9	1157.4	1177.3	1201.6	1230.9	1264.5
12.5°	1011.4	1021.4	1038.7	1061.9	1080.2	1101.5	1125.1	1151.0	1178.2	1213.5	1251.6
15°	958.1	970.0	991.2	1002.3	1030.4	1055.9	1077.7	1115.1	1149.9	1186.1	1230.3
17.5°	914.6	921.1	938.3	959.2	980.1	1008.7	1037.2	1068.3	1103.1	1147.3	1202.6
20°	884.7	890.3	908.9	930.8	953.2	979.4	1004.9	1036.0	1075.2	1121.9	1181.7
22.5°	862.3	868.4	880.6	903.9	924.8	946.5	972.0	1009.1	1050.8	1096.5	1161.3
25°	829.9	833.6	841.8	860.4	879.1	903.4	925.8	960.7	1003.6	1057.2	1121.9
27.5°	799.2	802.8	809.5	822.9	840.3	860.1	884.5	914.1	957.7	1015.8	1084.6
30°	780.7	781.3	787.6	800.0	815.0	831.2	853.6	887.2	928.3	987.5	1059.6
32.5°	764.8	762.4	766.7	776.1	790.6	806.8	825.2	858.3	897.9	956.1	1030.2
35°	737.8	736.5	734.7	742.8	755.2	767.6	783.9	808.7	853.6	907.8	985.6
37.5°	710.3	707.3	703.9	707.7	717.3	730.3	744.3	766.5	805.2	864.7	939.2
40°	689.8	687.4	685.5	684.2	692.9	705.4	716.0	737.1	773.2	829.9	903.4
42.5°	667.4	665.9	663.5	661.8	669.1	678.5	689.6	708.3	744.3	797.6	867.0
45°	631.3	630.1	628.8	627.6	631.9	640.6	649.4	663.1	694.2	745.8	808.7
47.5°	591.1	589.5	589.9	588.0	592.2	598.1	604.2	618.9	648.7	690.5	736.4
50°	562.2	561.6	561.6	561.6	562.8	569.7	575.3	586.5	613.9	655.6	688.6
52.5°	534.8	532.2	532.2	533.2	535.4	539.8	543.4	555.6	579.5	613.8	643.7
55°	491.9	486.9	485.6	486.9	488.7	492.5	496.2	506.2	526.7	552.2	569.7
57.5°	444.3	441.6	439.9	440.1	441.2	444.2	447.0	457.9	474.0	487.4	498.6
60°	410.9	412.2	406.5	407.8	407.8	410.3	414.6	421.5	435.2	444.5	455.7
62.5°	379.5	377.8	376.2	374.5	374.5	375.4	381.3	386.7	398.3	403.2	411.9
65°	330.6	330.6	326.9	328.1	328.8	324.4	327.5	333.7	341.2	343.0	351.2
67.5°	281.1	279.3	277.2	275.3	275.3	275.0	276.6	279.6	285.3	285.9	292.2
70°	247.2	245.9	245.3	243.4	241.0	244.1	242.2	245.3	248.4	249.1	252.8
72.5°	214.3	213.0	211.9	210.1	209.1	208.7	208.8	212.5	214.5	213.7	217.9
75°	167.5	166.2	165.0	161.8	161.8	160.0	160.7	163.1	165.6	163.7	167.5
77.5°	123.0	119.1	118.9	119.8	117.6	118.0	117.3	116.9	118.0	118.2	121.5
80°	94.7	90.3	91.5	90.9	90.3	89.7	88.4	89.0	89.7	90.3	92.1
82.5°	68.2	67.9	66.6	66.5	65.9	64.2	63.5	64.6	65.3	64.9	66.2
85°	34.9	33.0	34.2	33.6	34.2	33.6	31.8	31.8	33.0	32.4	33.6
87.5°	15.5	15.4	14.3	14.2	13.1	13.0	12.0	12.0	12.0	11.6	12.1
90°	25.3	24.5	21.5	18.5	15.6	12.7	10.1	7.8	5.5	3.2	1.0
92.5°	27.5	26.1	23.8	21.6	19.4	17.2	16.4	17.0	17.7	18.3	18.9
95°	33.2	31.6	29.1	26.6	24.1	21.6	25.0	34.3	43.6	52.8	62.1
97.5°	34.6	32.8	49.1	65.4	81.7	98.0	108.2	112.4	116.5	120.7	124.8
100°	35.4	33.6	68.9	104.3	139.6	174.8	190.3	185.7	181.2	176.7	172.1
102.5°	61.4	67.0	105.6	144.2	182.8	221.3	239.0	235.7	232.4	229.2	225.9
105°	183.0	223.1	243.4	263.8	284.2	304.6	313.5	311.0	308.6	306.0	303.6
107.5°	379.5	408.8	405.7	402.4	399.3	396.0	393.4	391.4	389.4	387.5	385.5
110°	451.9	459.4	456.9	454.4	451.9	449.4	447.3	445.4	443.6	441.9	440.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	510.9	510.7	508.3	505.7	503.3	500.7	498.7	497.1	495.4	493.8	492.2
115°	586.9	584.7	582.7	580.6	578.5	576.6	574.8	573.5	572.1	570.8	569.4
117.5°	658.2	656.4	655.4	654.3	653.2	652.2	650.9	649.2	647.5	645.9	644.2
120°	704.6	702.8	702.2	701.5	700.8	700.1	698.8	696.7	694.7	692.7	690.6
122.5°	750.6	749.3	748.5	747.6	746.7	745.8	744.6	742.9	741.2	739.6	737.9
125°	815.3	814.9	814.0	813.1	812.1	811.3	809.9	808.1	806.3	804.5	802.6
127.5°	879.2	878.5	877.3	876.3	875.2	874.1	872.7	870.8	869.0	867.2	865.4
130°	917.7	916.7	915.8	915.0	914.0	913.1	911.8	910.0	908.2	906.3	904.5
132.5°	954.3	953.4	952.7	952.0	951.3	950.5	949.3	947.5	945.6	943.8	942.0
135°	1010.1	1009.5	1008.5	1007.7	1006.7	1005.8	1004.7	1003.3	1002.0	1000.6	999.3
137.5°	1059.2	1058.1	1057.6	1057.2	1056.6	1056.1	1055.0	1053.3	1051.6	1049.9	1048.1
140°	1090.8	1089.9	1089.3	1088.5	1087.9	1087.2	1086.2	1084.8	1083.5	1082.1	1080.8
142.5°	1120.8	1120.1	1119.4	1118.7	1118.0	1117.4	1116.3	1115.0	1113.6	1112.2	1110.9
145°	1162.7	1162.2	1161.8	1161.3	1160.9	1160.4	1159.4	1157.9	1156.3	1154.7	1153.1
147.5°	1200.0	1199.5	1199.0	1198.6	1198.2	1197.7	1197.0	1195.9	1194.8	1193.8	1192.8
150°	1222.8	1222.3	1221.9	1221.4	1221.0	1220.5	1220.0	1219.2	1218.6	1217.9	1217.3
152.5°	1242.7	1241.9	1241.6	1241.3	1241.1	1240.8	1240.5	1240.2	1239.8	1239.5	1239.2
155°	1270.3	1269.2	1269.0	1268.8	1268.5	1268.3	1268.4	1268.8	1269.3	1269.8	1270.2
157.5°	1294.3	1293.0	1293.2	1293.5	1293.7	1294.0	1294.0	1294.1	1294.2	1294.2	1294.3
160°	1308.2	1306.9	1307.1	1307.3	1307.6	1307.8	1308.0	1308.2	1308.4	1308.7	1308.9
162.5°	1320.6	1319.1	1319.3	1319.5	1319.8	1320.0	1320.4	1321.0	1321.6	1322.2	1322.8
165°	1337.2	1335.4	1335.6	1335.9	1336.1	1336.3	1336.7	1337.4	1338.1	1338.8	1339.5
167.5°	1350.3	1348.5	1348.5	1348.5	1348.5	1348.5	1348.8	1349.8	1350.7	1351.6	1352.5
170°	1357.6	1355.7	1355.7	1355.7	1355.7	1355.7	1356.2	1357.2	1358.0	1358.9	1359.9
172.5°	1362.5	1360.7	1360.5	1360.3	1360.1	1359.9	1360.4	1361.4	1362.6	1363.7	1364.8
175°	1368.6	1367.0	1366.8	1366.5	1366.3	1366.0	1366.5	1367.6	1368.8	1369.9	1371.0
177.5°	1370.9	1369.4	1369.2	1369.0	1368.9	1368.7	1369.0	1370.0	1370.9	1371.7	1372.7
180°	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1293.0	1295.5	1303.9	1310.0	1316.9	1320.9	1324.8	1327.9	1331.8	1332.8	1347.3
5°	1298.7	1311.2	1333.0	1349.2	1369.0	1390.8	1405.8	1412.7	1430.7	1445.7	1475.5
7.5°	1297.1	1323.7	1356.5	1390.6	1427.2	1461.1	1490.5	1525.3	1550.1	1587.4	1624.1
10°	1295.6	1331.1	1373.4	1417.1	1468.1	1515.4	1557.7	1605.0	1644.3	1695.9	1740.1
12.5°	1291.1	1334.1	1392.9	1444.4	1506.4	1571.7	1634.4	1695.2	1730.0	1816.0	1856.7
15°	1280.1	1331.1	1404.5	1483.0	1568.3	1645.5	1725.2	1788.7	1891.4	1966.8	2014.7
17.5°	1258.9	1330.4	1417.5	1512.1	1615.9	1717.6	1807.9	1904.2	2013.3	2104.4	2201.5
20°	1249.0	1327.4	1424.5	1529.1	1636.8	1752.0	1854.7	1970.5	2089.5	2179.1	2303.6
22.5°	1230.5	1319.4	1424.0	1540.6	1655.7	1774.9	1895.1	2011.8	2149.2	2272.7	2391.3
25°	1200.4	1300.0	1408.3	1538.4	1673.6	1793.1	1936.9	2091.9	2235.1	2393.9	2512.2
27.5°	1168.7	1275.1	1383.6	1504.7	1650.0	1791.8	1972.8	2147.9	2323.0	2460.1	2547.7
30°	1144.3	1247.7	1359.8	1481.8	1625.6	1794.3	1996.6	2187.8	2358.4	2476.0	2525.2
32.5°	1117.9	1222.7	1321.9	1449.9	1603.1	1792.8	2011.6	2211.2	2360.4	2438.7	2429.1
35°	1076.5	1164.3	1260.8	1384.0	1564.6	1781.9	2020.3	2213.3	2304.9	2288.1	2161.0
37.5°	1016.7	1090.5	1185.6	1320.5	1519.7	1758.8	2002.9	2147.7	2141.7	2004.9	1820.8
40°	979.4	1042.2	1133.8	1275.7	1484.9	1743.9	1975.5	2069.5	1989.8	1798.6	1578.3
42.5°	930.5	988.4	1080.0	1225.9	1446.5	1713.5	1923.2	1950.4	1794.5	1574.5	1372.5
45°	854.8	905.9	1000.5	1151.2	1389.0	1647.3	1795.6	1728.9	1519.1	1291.9	1138.1
47.5°	773.5	826.6	917.6	1072.4	1305.8	1547.9	1618.5	1476.8	1261.4	1077.1	935.9
50°	722.2	773.2	862.3	1018.6	1249.5	1466.2	1495.5	1312.4	1114.4	952.6	836.8
52.5°	670.4	718.5	806.0	962.7	1183.8	1371.6	1353.5	1167.0	984.9	847.0	756.1
55°	593.3	638.8	722.2	869.1	1070.2	1219.0	1153.7	975.6	824.9	717.9	648.7
57.5°	524.3	567.9	639.9	772.6	947.5	1049.7	966.5	816.5	696.6	614.3	562.7
60°	477.5	516.1	584.6	707.9	859.8	937.6	855.5	722.9	621.9	556.0	509.9
62.5°	433.2	466.8	530.3	642.1	774.1	839.5	756.3	644.1	558.3	499.7	460.6
65°	366.1	396.6	452.7	539.8	648.1	691.7	620.1	529.2	462.6	419.0	392.8
67.5°	304.8	330.7	379.1	447.7	527.4	559.2	504.7	434.4	384.1	349.1	328.4
70°	264.0	286.4	324.4	383.5	455.7	480.0	429.0	371.1	334.3	306.3	287.0
72.5°	229.6	246.1	280.5	326.2	386.5	405.8	370.2	319.2	285.0	264.0	248.7
75°	174.9	188.6	211.0	247.8	289.5	300.7	273.9	242.2	219.1	204.2	192.3
77.5°	126.1	136.3	152.4	175.1	204.0	214.0	197.1	175.9	159.1	149.0	142.4
80°	95.2	103.4	117.1	135.7	153.1	158.8	148.8	132.6	120.8	115.2	109.6
82.5°	70.3	74.9	83.2	95.9	107.8	114.5	106.0	96.3	89.9	84.8	82.7
85°	35.5	37.9	41.7	46.7	54.2	56.6	53.6	51.0	47.3	44.2	44.2
87.5°	13.6	14.0	16.0	17.4	20.0	22.0	22.1	21.7	21.8	21.5	21.2
90°	3.2	5.5	7.8	10.1	12.7	15.6	18.5	21.5	24.5	25.3	26.2
92.5°	18.3	17.7	17.0	16.4	17.2	19.4	21.6	23.8	26.1	27.5	29.0
95°	52.8	43.6	34.3	25.0	21.6	24.1	26.6	29.1	31.6	33.2	34.8
97.5°	120.7	116.5	112.4	108.2	98.0	81.7	65.4	49.1	32.8	34.6	36.4
100°	176.7	181.2	185.7	190.3	174.8	139.6	104.3	68.9	33.6	35.4	37.2
102.5°	229.2	232.4	235.7	239.0	221.3	182.8	144.2	105.6	67.0	61.4	55.8
105°	306.0	308.6	311.0	313.5	304.6	284.2	263.8	243.4	223.1	183.0	142.9
107.5°	387.5	389.4	391.4	393.4	396.0	399.3	402.4	405.7	408.8	379.5	350.1
110°	441.9	443.6	445.4	447.3	449.4	451.9	454.4	456.9	459.4	451.9	444.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	493.8	495.4	497.1	498.7	500.7	503.3	505.7	508.3	510.7	510.9	511.0
115°	570.8	572.1	573.5	574.8	576.6	578.5	580.6	582.7	584.7	586.9	589.2
117.5°	645.9	647.5	649.2	650.9	652.2	653.2	654.3	655.4	656.4	658.2	660.0
120°	692.7	694.7	696.7	698.8	700.1	700.8	701.5	702.2	702.8	704.6	706.5
122.5°	739.6	741.2	742.9	744.6	745.8	746.7	747.6	748.5	749.3	750.6	751.9
125°	804.5	806.3	808.1	809.9	811.3	812.1	813.1	814.0	814.9	815.3	815.8
127.5°	867.2	869.0	870.8	872.7	874.1	875.2	876.3	877.3	878.5	879.2	879.9
130°	906.3	908.2	910.0	911.8	913.1	914.0	915.0	915.8	916.7	917.7	918.5
132.5°	943.8	945.6	947.5	949.3	950.5	951.3	952.0	952.7	953.4	954.3	955.2
135°	1000.6	1002.0	1003.3	1004.7	1005.8	1006.7	1007.7	1008.5	1009.5	1010.1	1010.8
137.5°	1049.9	1051.6	1053.3	1055.0	1056.1	1056.6	1057.2	1057.6	1058.1	1059.2	1060.3
140°	1082.1	1083.5	1084.8	1086.2	1087.2	1087.9	1088.5	1089.3	1089.9	1090.8	1091.7
142.5°	1112.2	1113.6	1115.0	1116.3	1117.4	1118.0	1118.7	1119.4	1120.1	1120.8	1121.5
145°	1154.7	1156.3	1157.9	1159.4	1160.4	1160.9	1161.3	1161.8	1162.2	1162.7	1163.2
147.5°	1193.8	1194.8	1195.9	1197.0	1197.7	1198.2	1198.6	1199.0	1199.5	1200.0	1200.4
150°	1217.9	1218.6	1219.2	1220.0	1220.5	1221.0	1221.4	1221.9	1222.3	1222.8	1223.2
152.5°	1239.5	1239.8	1240.2	1240.5	1240.8	1241.1	1241.3	1241.6	1241.9	1242.7	1243.5
155°	1269.8	1269.3	1268.8	1268.4	1268.3	1268.5	1268.8	1269.0	1269.2	1270.3	1271.5
157.5°	1294.2	1294.2	1294.1	1294.0	1294.0	1293.7	1293.5	1293.2	1293.0	1294.3	1295.8
160°	1308.7	1308.4	1308.2	1308.0	1307.8	1307.6	1307.3	1307.1	1306.9	1308.2	1309.6
162.5°	1322.2	1321.6	1321.0	1320.4	1320.0	1319.8	1319.5	1319.3	1319.1	1320.6	1322.2
165°	1338.8	1338.1	1337.4	1336.7	1336.3	1336.1	1335.9	1335.6	1335.4	1337.2	1339.0
167.5°	1351.6	1350.7	1349.8	1348.8	1348.5	1348.5	1348.5	1348.5	1348.5	1350.3	1352.1
170°	1358.9	1358.0	1357.2	1356.2	1355.7	1355.7	1355.7	1355.7	1355.7	1357.6	1359.4
172.5°	1363.7	1362.6	1361.4	1360.4	1359.9	1360.1	1360.3	1360.5	1360.7	1362.5	1364.3
175°	1369.9	1368.8	1367.6	1366.5	1366.0	1366.3	1366.5	1366.8	1367.0	1368.6	1370.2
177.5°	1371.7	1370.9	1370.0	1369.0	1368.7	1368.9	1369.0	1369.2	1369.4	1370.9	1372.3
180°	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1352.3	1352.7	1358.3	1362.2	1360.3	1362.7	1363.7
5°	1477.4	1499.8	1511.6	1520.4	1521.0	1521.6	1526.6
7.5°	1654.9	1678.9	1696.5	1723.1	1731.1	1740.1	1737.5
10°	1784.4	1819.8	1850.4	1866.5	1884.0	1909.5	1889.0
12.5°	1905.4	1968.3	2014.7	2039.9	2056.3	2061.4	2051.4
15°	2105.0	2187.1	2231.3	2230.2	2286.2	2310.5	2272.5
17.5°	2288.1	2363.9	2424.6	2455.8	2502.4	2512.8	2508.0
20°	2400.1	2482.9	2530.2	2583.8	2608.0	2629.8	2633.5
22.5°	2496.7	2571.0	2621.9	2666.4	2686.8	2697.1	2703.3
25°	2596.2	2654.8	2685.3	2700.8	2706.4	2705.1	2697.1
27.5°	2589.3	2593.8	2560.3	2527.2	2497.8	2464.5	2453.0
30°	2522.1	2469.8	2376.5	2323.5	2245.7	2184.0	2208.9
32.5°	2345.3	2241.2	2136.4	2020.7	1924.9	1897.7	1870.3
35°	2001.6	1818.6	1711.5	1587.0	1537.2	1487.4	1453.1
37.5°	1619.4	1477.8	1350.8	1269.3	1219.4	1187.9	1171.0
40°	1400.2	1272.6	1168.0	1102.0	1064.0	1028.5	1023.6
42.5°	1225.4	1106.8	1028.0	975.5	939.0	923.9	913.0
45°	1003.6	920.8	867.9	830.5	806.3	796.9	784.5
47.5°	849.5	790.9	751.2	725.8	707.5	700.5	699.6
50°	763.3	714.7	685.5	665.5	651.3	648.7	638.8
52.5°	698.5	656.5	633.7	616.2	605.9	599.0	596.0
55°	606.4	578.4	557.9	547.9	539.8	532.9	532.9
57.5°	530.6	507.2	493.6	485.1	482.6	477.8	474.7
60°	483.8	463.8	453.3	445.8	440.8	441.4	435.8
62.5°	437.9	425.0	414.9	407.4	401.5	401.6	402.0
65°	373.0	363.0	355.5	353.0	349.3	344.9	346.2
67.5°	316.0	306.7	300.9	296.6	295.3	293.0	296.6
70°	275.2	268.3	264.0	260.2	259.0	259.6	262.8
72.5°	237.8	233.0	230.1	228.4	225.6	225.8	227.8
75°	186.8	183.1	180.5	178.7	178.1	178.1	178.1
77.5°	137.2	136.3	135.2	132.5	132.6	133.3	133.5
80°	108.4	106.5	105.8	104.6	102.7	101.5	104.6
82.5°	81.0	79.1	78.4	78.2	75.3	75.1	77.7
85°	43.6	41.7	42.3	41.7	41.7	41.1	41.1
87.5°	20.8	20.5	20.2	20.8	20.4	20.0	21.1
90°	27.2	28.0	28.8	29.2	29.6	30.1	30.6
92.5°	30.4	31.8	32.7	33.0	33.3	33.5	33.8
95°	36.4	37.9	38.7	38.7	38.7	38.7	38.7
97.5°	38.3	40.0	41.0	41.3	41.5	41.7	42.0
100°	39.1	40.9	41.9	42.1	42.3	42.5	42.8
102.5°	50.1	44.6	42.0	42.4	42.8	43.2	43.6
105°	102.9	62.8	43.0	43.5	43.9	44.4	44.8
107.5°	320.8	291.4	261.6	231.4	201.1	171.0	140.8
110°	437.0	429.5	409.6	377.2	344.8	312.5	280.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	511.1	511.3	507.9	501.1	494.2	487.4	480.6
115°	591.4	593.7	595.3	596.2	597.1	598.0	599.0
117.5°	661.8	663.6	664.6	664.8	665.0	665.2	665.4
120°	708.3	710.1	711.0	711.0	711.0	711.0	711.0
122.5°	753.1	754.4	755.1	755.3	755.4	755.7	755.8
125°	816.3	816.7	817.1	817.6	818.1	818.5	819.0
127.5°	880.6	881.4	881.5	881.1	880.6	880.1	879.6
130°	919.5	920.4	920.6	920.1	919.7	919.2	918.8
132.5°	956.2	957.0	957.2	956.6	955.9	955.3	954.7
135°	1011.5	1012.2	1012.2	1011.5	1010.8	1010.1	1009.5
137.5°	1061.4	1062.5	1062.8	1062.3	1061.9	1061.4	1061.0
140°	1092.7	1093.5	1093.8	1093.3	1092.8	1092.4	1091.9
142.5°	1122.2	1123.0	1123.0	1122.4	1121.7	1121.1	1120.5
145°	1163.6	1164.0	1164.3	1164.3	1164.3	1164.3	1164.3
147.5°	1200.9	1201.3	1201.0	1200.0	1199.0	1197.9	1196.8
150°	1223.7	1224.2	1224.0	1223.4	1222.7	1222.0	1221.3
152.5°	1244.4	1245.2	1245.1	1244.0	1242.9	1241.9	1240.9
155°	1272.6	1273.7	1273.6	1272.2	1270.9	1269.6	1268.2
157.5°	1297.1	1298.5	1298.2	1296.5	1294.7	1292.9	1291.2
160°	1311.0	1312.3	1312.2	1310.6	1309.0	1307.4	1305.8
162.5°	1323.7	1325.2	1325.3	1323.9	1322.5	1321.1	1319.7
165°	1340.8	1342.7	1342.7	1341.2	1339.6	1338.0	1336.4
167.5°	1353.8	1355.7	1355.7	1353.8	1352.1	1350.3	1348.5
170°	1361.2	1363.0	1363.0	1361.2	1359.4	1357.6	1355.7
172.5°	1366.1	1367.9	1367.8	1365.8	1363.8	1361.8	1359.9
175°	1371.7	1373.3	1373.2	1371.4	1369.6	1367.8	1366.0
177.5°	1373.8	1375.2	1375.1	1373.2	1371.4	1369.6	1367.8
180°	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0	1371.0

(END OF REPORT)