

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: P332198-927

Luminaire Tested: **S123DIW-S1000D1320U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332198-927
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-S1000D1320U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 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: 7543.1 lumens
Efficiency: N/A
Efficacy: 108.1 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

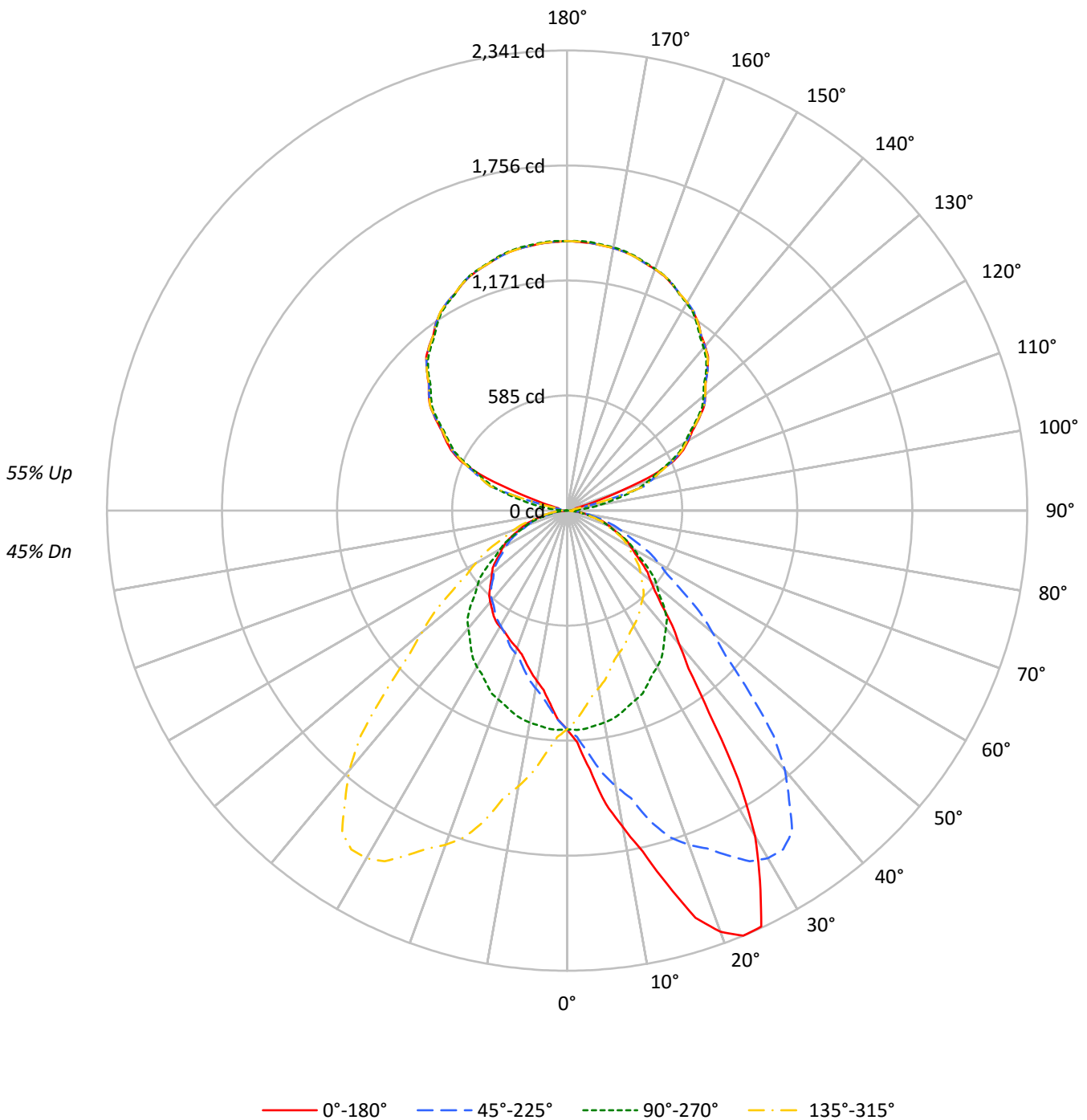
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	28				
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	28	24				
5	68	56	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	26	24	21	18				
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16				
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	30	25	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	28	22	19	23	19	16	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11976	11976	11976	11976
5°	14282	12028	10659	12028
10°	17876	11967	9627	11967
15°	21926	11870	8963	11870
20°	26120	11720	8534	11720
25°	27736	11537	8438	11537
30°	23772	11404	8483	11404
35°	16533	11213	8571	11213
40°	12452	10991	8545	10991
45°	10339	10660	8435	10660
50°	9262	9984	8359	9984
55°	8659	9256	8255	9256
60°	8122	8495	8170	8495
65°	7636	7743	7908	7743
70°	7160	6889	7531	6889
75°	6413	6030	6904	6030
80°	5610	4947	5945	4947
85°	4397	3594	3989	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.5
10°-20°	351.5	4.7
20°-30°	589.8	7.8
30°-40°	667.9	8.9
40°-50°	598.9	7.9
50°-60°	483.3	6.4
60°-70°	336.8	4.5
70°-80°	177.0	2.3
80°-90°	47.1	0.6
90°-100°	49.8	0.7
100°-110°	237.6	3.1
110°-120°	570.6	7.6
120°-130°	726.7	9.6
130°-140°	776.4	10.3
140°-150°	726.0	9.6
150°-160°	585.6	7.8
160°-170°	378.0	5.0
170°-180°	130.3	1.7
0°-30°	1050.9	13.9
0°-40°	1718.8	22.8
0°-60°	2801.1	37.1
0°-90°	3362.0	44.6
90°-120°	858.1	11.4
90°-150°	3087.2	40.9
90°-180°	4181.0	55.4
0°-180°	7543.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1113	1113	1113	1113	1113	
5°	1322	1113	986	1113	1322	137
15°	1968	1065	804	1065	1968	568
25°	2335	971	710	971	2335	1024
35°	1258	853	652	853	1258	817
45°	679	700	554	700	679	537
55°	461	493	440	493	461	414
65°	300	304	310	304	300	298
75°	154	145	166	145	154	165
85°	36	29	32	29	36	43
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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1180.7	1180.0	1177.7	1179.5	1176.1	1171.3	1170.8	1166.6	1154.1	1153.2	1149.8
5°	1321.8	1317.5	1316.9	1316.4	1308.8	1298.6	1279.2	1277.6	1251.7	1238.8	1223.1
7.5°	1504.4	1506.7	1498.8	1491.9	1468.9	1453.7	1432.8	1406.2	1374.4	1342.2	1320.7
10°	1635.5	1653.4	1631.3	1616.1	1602.1	1575.7	1545.0	1506.7	1468.5	1423.7	1389.7
12.5°	1776.2	1784.9	1780.4	1766.2	1744.5	1704.2	1649.8	1607.7	1572.4	1497.9	1467.8
15°	1967.6	2000.5	1979.5	1930.9	1932.1	1893.8	1822.6	1744.5	1703.0	1637.7	1548.8
17.5°	2171.6	2175.7	2166.8	2126.3	2099.4	2046.8	1981.1	1906.1	1822.1	1743.1	1648.8
20°	2280.3	2277.0	2258.2	2237.1	2190.8	2149.8	2078.1	1994.6	1886.7	1809.1	1706.2
22.5°	2340.7	2335.3	2326.3	2308.7	2270.2	2226.2	2161.8	2070.4	1967.9	1860.9	1741.9
25°	2335.3	2342.2	2343.4	2338.5	2325.1	2298.6	2247.9	2175.2	2072.7	1935.3	1811.3
27.5°	2123.9	2133.9	2162.7	2188.2	2216.8	2245.9	2242.0	2205.9	2130.1	2011.4	1859.8
30°	1912.6	1891.1	1944.4	2011.8	2057.6	2138.5	2183.8	2186.5	2143.9	2042.0	1894.3
32.5°	1619.4	1643.1	1666.7	1749.6	1849.7	1940.5	2030.7	2103.2	2111.6	2043.8	1914.5
35°	1258.2	1287.9	1330.9	1374.1	1481.9	1574.6	1733.1	1871.1	1981.1	1995.7	1916.4
37.5°	1013.9	1028.6	1055.8	1099.1	1169.6	1279.5	1402.2	1576.6	1735.9	1854.4	1859.6
40°	886.2	890.6	921.3	954.2	1011.3	1101.8	1212.4	1366.5	1557.4	1722.9	1791.9
42.5°	790.5	799.9	813.0	844.6	890.1	958.2	1061.0	1188.4	1363.3	1553.8	1688.8
45°	679.2	690.0	698.1	719.1	751.5	797.3	869.0	985.4	1118.6	1315.3	1497.0
47.5°	605.7	606.6	612.6	628.4	650.5	684.8	735.5	810.3	932.6	1092.2	1278.7
50°	553.1	561.7	563.9	576.2	593.5	618.9	660.9	724.5	824.8	965.0	1136.4
52.5°	516.0	518.6	524.7	533.6	548.7	568.4	604.8	654.7	733.3	852.8	1010.4
55°	461.4	461.4	467.4	474.4	483.0	500.8	525.1	561.7	621.5	714.3	844.7
57.5°	411.0	413.7	417.9	420.0	427.4	439.1	459.4	487.2	531.9	603.2	706.9
60°	377.3	382.2	381.7	386.0	392.4	401.6	418.8	441.5	481.4	538.5	625.9
62.5°	348.0	347.7	347.6	352.8	359.3	368.0	379.2	398.8	432.7	483.3	557.7
65°	299.8	298.7	302.5	305.6	307.8	314.3	322.9	340.2	362.8	400.5	458.2
67.5°	256.8	253.7	255.7	256.8	260.5	265.5	273.6	284.3	302.3	332.6	376.0
70°	227.5	224.8	224.3	225.3	228.5	232.3	238.3	248.5	265.2	289.5	321.3
72.5°	197.3	195.4	195.4	197.7	199.2	201.7	205.9	215.3	228.5	246.8	276.5
75°	154.2	154.2	154.2	154.7	156.3	158.5	161.7	166.6	176.8	189.7	209.7
77.5°	115.6	115.5	114.8	114.7	117.1	118.0	118.8	123.3	129.0	137.8	152.3
80°	90.5	87.9	89.0	90.5	91.7	92.2	93.8	94.9	99.7	104.6	114.8
82.5°	67.3	65.0	65.2	67.7	67.9	68.4	70.1	71.6	73.4	77.9	83.3
85°	35.6	35.6	36.1	36.1	36.7	36.1	37.7	38.3	38.3	41.0	44.2
87.5°	19.0	18.1	18.5	18.8	18.2	18.5	18.8	19.0	19.3	19.6	19.4
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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1147.2	1143.7	1140.3	1134.2	1129.0	1121.7	1119.5	1117.0	1109.2	1102.3	1097.1
5°	1217.2	1204.3	1185.4	1168.2	1154.1	1135.3	1124.5	1113.2	1097.0	1082.4	1070.6
7.5°	1290.5	1265.1	1235.8	1204.0	1174.6	1146.1	1123.1	1102.6	1080.0	1058.5	1041.8
10°	1348.8	1312.1	1271.1	1226.9	1189.2	1152.5	1121.8	1094.9	1065.7	1040.4	1019.4
12.5°	1415.2	1360.8	1304.3	1250.6	1206.0	1155.2	1117.9	1083.6	1050.7	1020.2	996.6
15°	1493.7	1424.7	1358.0	1284.0	1216.2	1152.5	1108.3	1065.2	1026.9	995.7	965.5
17.5°	1565.4	1487.2	1399.1	1309.3	1227.3	1151.9	1090.0	1041.2	993.4	955.1	925.0
20°	1605.9	1516.9	1417.2	1324.0	1233.4	1149.3	1081.4	1023.2	971.4	931.0	897.0
22.5°	1640.8	1536.8	1433.6	1333.9	1233.0	1142.4	1065.4	1005.5	949.4	909.8	873.7
25°	1677.0	1552.5	1449.1	1332.1	1219.4	1125.6	1039.3	971.4	915.4	869.0	831.8
27.5°	1708.1	1551.5	1428.6	1302.8	1198.0	1104.0	1011.9	939.1	879.6	829.2	791.5
30°	1728.8	1553.6	1407.5	1283.0	1177.3	1080.3	990.8	917.5	855.0	803.7	768.2
32.5°	1741.8	1552.3	1388.1	1255.4	1144.5	1058.8	968.0	892.1	827.8	777.4	743.1
35°	1749.3	1542.9	1354.7	1198.3	1091.6	1008.1	932.1	853.3	786.0	739.1	700.3
37.5°	1734.2	1522.9	1315.9	1143.4	1026.5	944.2	880.3	813.3	748.8	697.1	663.7
40°	1710.5	1510.0	1285.7	1104.5	981.7	902.4	848.0	782.2	718.6	669.6	638.3
42.5°	1665.2	1483.6	1252.5	1061.4	935.1	855.8	805.7	750.8	690.5	644.5	613.2
45°	1554.7	1426.4	1202.7	996.7	866.3	784.3	740.1	700.3	645.8	601.0	574.1
47.5°	1401.4	1340.2	1130.7	928.5	794.5	715.7	669.7	637.6	597.9	561.7	535.8
50°	1294.8	1269.6	1081.9	881.9	746.6	669.6	625.3	596.2	567.7	531.6	507.8
52.5°	1172.0	1187.6	1025.0	833.6	697.9	622.1	580.5	557.4	531.4	501.8	481.1
55°	998.9	1055.5	926.7	752.6	625.3	553.1	513.7	493.2	478.2	456.1	438.2
57.5°	836.9	908.9	820.4	669.0	554.1	491.7	454.0	431.7	422.0	410.4	396.4
60°	740.7	811.8	744.5	612.9	506.2	446.9	413.4	394.6	384.9	376.8	365.0
62.5°	654.9	726.9	670.3	556.0	459.1	404.2	375.1	356.6	349.1	344.9	334.8
65°	536.9	598.9	561.2	467.4	391.9	343.4	317.0	304.0	297.1	295.4	288.9
67.5°	437.0	484.2	456.7	387.7	328.3	286.4	264.0	252.9	247.6	247.0	242.2
70°	371.5	415.7	394.6	332.1	280.8	248.0	228.5	218.9	215.6	215.1	212.4
72.5°	320.5	351.3	334.6	282.5	242.9	213.0	198.8	188.7	185.0	185.8	183.9
75°	237.2	260.4	250.6	214.5	182.8	163.3	151.5	145.0	141.8	143.4	141.2
77.5°	170.6	185.4	176.6	151.6	132.0	118.0	109.2	105.2	102.3	102.2	101.2
80°	128.8	137.4	132.6	117.5	101.3	89.5	82.5	79.8	78.2	77.6	77.1
82.5°	91.7	99.1	93.4	83.0	72.0	64.9	60.9	57.4	56.2	56.5	55.9
85°	46.3	49.0	46.9	40.4	36.1	32.9	30.7	29.1	28.0	28.6	27.5
87.5°	19.6	19.5	17.7	15.4	14.1	12.4	11.9	10.5	10.1	10.6	10.6
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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1094.1	1091.1	1086.8	1080.3	1075.1	1066.9	1066.9	1068.3	1068.3	1067.8	1066.9
5°	1060.9	1052.8	1043.1	1031.8	1019.9	1008.1	1005.9	1001.6	998.4	996.2	993.5
7.5°	1025.9	1011.5	997.4	981.5	967.1	955.1	946.8	939.9	935.5	930.7	927.3
10°	1002.1	984.4	967.7	950.9	932.6	918.1	908.9	902.4	897.5	893.3	891.1
12.5°	974.1	953.7	935.3	919.4	899.4	884.4	875.7	872.7	867.0	857.9	853.1
15°	933.1	914.3	892.2	867.9	858.2	839.9	829.7	824.8	821.6	814.5	812.4
17.5°	898.1	873.4	848.6	830.5	812.5	797.6	791.9	785.8	781.6	775.9	774.1
20°	870.1	848.0	825.3	805.9	787.0	770.9	766.0	761.7	757.4	754.7	752.6
22.5°	841.6	819.5	800.7	782.6	762.5	751.9	746.6	741.9	738.9	737.0	734.8
25°	801.6	782.2	761.2	745.0	728.8	721.8	718.6	715.9	713.8	711.1	710.5
27.5°	765.8	744.7	727.6	712.6	700.9	695.1	692.0	690.6	691.1	692.1	692.7
30°	739.1	719.7	705.7	692.7	681.9	676.5	676.0	676.0	678.2	678.7	679.8
32.5°	714.5	698.5	684.5	672.0	663.8	660.1	662.2	662.2	663.9	665.4	667.3
35°	678.7	664.6	653.9	643.1	636.1	637.7	638.8	639.8	642.5	645.8	648.0
37.5°	644.5	632.3	621.2	612.7	609.5	612.4	615.0	617.3	620.4	622.8	625.0
40°	620.0	610.8	600.0	592.5	593.5	595.2	597.3	600.0	602.7	604.3	606.5
42.5°	597.1	587.5	579.3	573.1	574.6	576.6	577.9	579.3	582.4	585.3	586.6
45°	562.3	554.7	547.2	543.4	544.5	545.6	546.6	548.3	551.0	553.1	553.7
47.5°	523.1	517.8	512.8	509.1	510.8	510.4	511.8	515.2	516.1	517.4	520.4
50°	498.1	493.2	487.4	486.2	486.2	486.2	486.8	491.1	491.1	493.2	495.4
52.5°	470.5	467.4	463.6	461.7	460.8	460.8	463.0	465.2	466.1	469.1	471.3
55°	429.7	426.4	423.2	421.5	420.5	421.5	425.9	426.9	429.7	431.3	432.8
57.5°	387.1	384.6	382.0	381.1	380.9	382.3	384.7	387.9	388.6	393.6	396.0
60°	359.0	355.2	353.1	353.1	352.0	356.9	355.8	361.2	362.3	365.5	369.2
62.5°	330.1	325.0	324.2	324.2	325.7	327.1	328.6	331.0	333.8	337.9	340.8
65°	283.5	280.8	284.6	284.1	283.0	286.2	286.2	288.9	292.2	296.0	301.9
67.5°	239.5	238.1	238.4	238.4	240.0	241.9	243.4	245.7	249.6	253.6	257.5
70°	209.7	211.4	208.7	210.8	212.4	212.9	214.0	217.2	221.6	224.3	228.5
72.5°	180.8	180.7	181.0	181.9	183.5	184.5	185.5	189.3	193.9	196.2	199.7
75°	139.1	138.6	140.1	140.1	142.8	143.9	145.0	146.6	150.9	154.2	156.9
77.5°	101.6	102.2	101.9	103.7	103.0	103.1	106.5	108.1	108.6	114.9	116.4
80°	76.5	77.6	78.2	78.7	79.2	78.2	81.9	83.6	83.6	87.3	90.0
82.5°	55.0	55.6	57.0	57.6	57.7	58.8	59.1	60.3	61.6	63.2	66.7
85°	27.5	29.1	29.6	29.1	29.6	28.6	30.2	30.7	31.3	31.3	31.3
87.5°	10.6	11.6	11.7	12.8	12.9	13.9	14.1	13.5	13.6	15.1	13.5
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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1063.9	1063.5	1066.5	1064.4	1066.5	1063.5	1063.9	1066.9	1067.8	1068.3	1068.3
5°	990.3	991.9	986.5	986.5	986.5	991.9	990.3	993.5	996.2	998.4	1001.6
7.5°	924.7	922.3	922.6	919.6	922.6	922.3	924.7	927.3	930.7	935.5	939.9
10°	884.6	881.4	880.3	880.8	880.3	881.4	884.6	891.1	893.3	897.5	902.4
12.5°	851.4	850.8	843.7	843.8	843.7	850.8	851.4	853.1	857.9	867.0	872.7
15°	812.4	802.2	801.1	804.3	801.1	802.2	812.4	812.4	814.5	821.6	824.8
17.5°	773.2	767.9	768.2	766.6	768.2	767.9	773.2	774.1	775.9	781.6	785.8
20°	752.6	749.3	748.8	745.0	748.8	749.3	752.6	752.6	754.7	757.4	761.7
22.5°	733.6	732.5	732.8	728.6	732.8	732.5	733.6	734.8	737.0	738.9	741.9
25°	710.0	712.6	710.5	710.5	710.5	712.6	710.0	710.5	711.1	713.8	715.9
27.5°	694.0	693.9	692.8	692.8	692.8	693.9	694.0	692.7	692.1	691.1	690.6
30°	681.9	681.4	682.5	682.5	682.5	681.4	681.9	679.8	678.7	678.2	676.0
32.5°	669.9	670.6	670.8	671.2	670.8	670.6	669.9	667.3	665.4	663.9	662.2
35°	651.2	651.7	653.4	652.3	653.4	651.7	651.2	648.0	645.8	642.5	639.8
37.5°	626.0	628.4	627.9	628.8	627.9	628.4	626.0	625.0	622.8	620.4	617.3
40°	607.0	608.6	608.1	608.1	608.1	608.6	607.0	606.5	604.3	602.7	600.0
42.5°	587.6	588.7	587.4	586.5	587.4	588.7	587.6	586.6	585.3	582.4	579.3
45°	555.8	554.7	556.3	554.1	556.3	554.7	555.8	553.7	553.1	551.0	548.3
47.5°	520.2	521.3	521.7	523.3	521.7	521.3	520.2	520.4	517.4	516.1	515.2
50°	496.5	499.7	499.7	499.2	499.7	499.7	496.5	495.4	493.2	491.1	491.1
52.5°	473.2	474.7	476.9	476.7	476.9	474.7	473.2	471.3	469.1	466.1	465.2
55°	437.2	438.2	439.3	439.9	439.3	438.2	437.2	432.8	431.3	429.7	426.9
57.5°	399.9	399.4	402.0	402.8	402.0	399.4	399.9	396.0	393.6	388.6	387.9
60°	373.6	373.6	377.9	379.5	377.9	373.6	373.6	369.2	365.5	362.3	361.2
62.5°	345.5	347.3	351.6	349.4	351.6	347.3	345.5	340.8	337.9	333.8	331.0
65°	304.6	308.9	308.3	310.5	308.3	308.9	304.6	301.9	296.0	292.2	288.9
67.5°	261.7	264.4	268.3	268.7	268.3	264.4	261.7	257.5	253.6	249.6	245.7
70°	232.9	235.6	237.7	239.3	237.7	235.6	232.9	228.5	224.3	221.6	217.2
72.5°	204.9	206.3	211.4	209.1	211.4	206.3	204.9	199.7	196.2	193.9	189.3
75°	160.7	164.4	167.6	166.0	167.6	164.4	160.7	156.9	154.2	150.9	146.6
77.5°	118.8	122.6	124.1	122.7	124.1	122.6	118.8	116.4	114.9	108.6	108.1
80°	93.8	93.2	96.5	95.9	96.5	93.2	93.8	90.0	87.3	83.6	83.6
82.5°	68.8	68.3	69.8	70.1	69.8	68.3	68.8	66.7	63.2	61.6	60.3
85°	33.4	35.0	32.9	32.3	32.9	35.0	33.4	31.3	31.3	31.3	30.7
87.5°	13.6	13.7	13.4	13.0	13.4	13.7	13.6	13.5	15.1	13.6	13.5
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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1066.9	1066.9	1075.1	1080.3	1086.8	1091.1	1094.1	1097.1	1102.3	1109.2	1117.0
5°	1005.9	1008.1	1019.9	1031.8	1043.1	1052.8	1060.9	1070.6	1082.4	1097.0	1113.2
7.5°	946.8	955.1	967.1	981.5	997.4	1011.5	1025.9	1041.8	1058.5	1080.0	1102.6
10°	908.9	918.1	932.6	950.9	967.7	984.4	1002.1	1019.4	1040.4	1065.7	1094.9
12.5°	875.7	884.4	899.4	919.4	935.3	953.7	974.1	996.6	1020.2	1050.7	1083.6
15°	829.7	839.9	858.2	867.9	892.2	914.3	933.1	965.5	995.7	1026.9	1065.2
17.5°	791.9	797.6	812.5	830.5	848.6	873.4	898.1	925.0	955.1	993.4	1041.2
20°	766.0	770.9	787.0	805.9	825.3	848.0	870.1	897.0	931.0	971.4	1023.2
22.5°	746.6	751.9	762.5	782.6	800.7	819.5	841.6	873.7	909.8	949.4	1005.5
25°	718.6	721.8	728.8	745.0	761.2	782.2	801.6	831.8	869.0	915.4	971.4
27.5°	692.0	695.1	700.9	712.6	727.6	744.7	765.8	791.5	829.2	879.6	939.1
30°	676.0	676.5	681.9	692.7	705.7	719.7	739.1	768.2	803.7	855.0	917.5
32.5°	662.2	660.1	663.8	672.0	684.5	698.5	714.5	743.1	777.4	827.8	892.1
35°	638.8	637.7	636.1	643.1	653.9	664.6	678.7	700.3	739.1	786.0	853.3
37.5°	615.0	612.4	609.5	612.7	621.2	632.3	644.5	663.7	697.1	748.8	813.3
40°	597.3	595.2	593.5	592.5	600.0	610.8	620.0	638.3	669.6	718.6	782.2
42.5°	577.9	576.6	574.6	573.1	579.3	587.5	597.1	613.2	644.5	690.5	750.8
45°	546.6	545.6	544.5	543.4	547.2	554.7	562.3	574.1	601.0	645.8	700.3
47.5°	511.8	510.4	510.8	509.1	512.8	517.8	523.1	535.8	561.7	597.9	637.6
50°	486.8	486.2	486.2	486.2	487.4	493.2	498.1	507.8	531.6	567.7	596.2
52.5°	463.0	460.8	460.8	461.7	463.6	467.4	470.5	481.1	501.8	531.4	557.4
55°	425.9	421.5	420.5	421.5	423.2	426.4	429.7	438.2	456.1	478.2	493.2
57.5°	384.7	382.3	380.9	381.1	382.0	384.6	387.1	396.4	410.4	422.0	431.7
60°	355.8	356.9	352.0	353.1	353.1	355.2	359.0	365.0	376.8	384.9	394.6
62.5°	328.6	327.1	325.7	324.2	324.2	325.0	330.1	334.8	344.9	349.1	356.6
65°	286.2	286.2	283.0	284.1	284.6	280.8	283.5	288.9	295.4	297.1	304.0
67.5°	243.4	241.9	240.0	238.4	238.4	238.1	239.5	242.2	247.0	247.6	252.9
70°	214.0	212.9	212.4	210.8	208.7	211.4	209.7	212.4	215.1	215.6	218.9
72.5°	185.5	184.5	183.5	181.9	181.0	180.7	180.8	183.9	185.8	185.0	188.7
75°	145.0	143.9	142.8	140.1	140.1	138.6	139.1	141.2	143.4	141.8	145.0
77.5°	106.5	103.1	103.0	103.7	101.9	102.2	101.6	101.2	102.2	102.3	105.2
80°	81.9	78.2	79.2	78.7	78.2	77.6	76.5	77.1	77.6	78.2	79.8
82.5°	59.1	58.8	57.7	57.6	57.0	55.6	55.0	55.9	56.5	56.2	57.4
85°	30.2	28.6	29.6	29.1	29.6	29.1	27.5	27.5	28.6	28.0	29.1
87.5°	14.1	13.9	12.9	12.8	11.7	11.6	10.6	10.6	10.6	10.1	10.5
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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1119.5	1121.7	1129.0	1134.2	1140.3	1143.7	1147.2	1149.8	1153.2	1154.1	1166.6
5°	1124.5	1135.3	1154.1	1168.2	1185.4	1204.3	1217.2	1223.1	1238.8	1251.7	1277.6
7.5°	1123.1	1146.1	1174.6	1204.0	1235.8	1265.1	1290.5	1320.7	1342.2	1374.4	1406.2
10°	1121.8	1152.5	1189.2	1226.9	1271.1	1312.1	1348.8	1389.7	1423.7	1468.5	1506.7
12.5°	1117.9	1155.2	1206.0	1250.6	1304.3	1360.8	1415.2	1467.8	1497.9	1572.4	1607.7
15°	1108.3	1152.5	1216.2	1284.0	1358.0	1424.7	1493.7	1548.8	1637.7	1703.0	1744.5
17.5°	1090.0	1151.9	1227.3	1309.3	1399.1	1487.2	1565.4	1648.8	1743.1	1822.1	1906.1
20°	1081.4	1149.3	1233.4	1324.0	1417.2	1516.9	1605.9	1706.2	1809.1	1886.7	1994.6
22.5°	1065.4	1142.4	1233.0	1333.9	1433.6	1536.8	1640.8	1741.9	1860.9	1967.9	2070.4
25°	1039.3	1125.6	1219.4	1332.1	1449.1	1552.5	1677.0	1811.3	1935.3	2072.7	2175.2
27.5°	1011.9	1104.0	1198.0	1302.8	1428.6	1551.5	1708.1	1859.8	2011.4	2130.1	2205.9
30°	990.8	1080.3	1177.3	1283.0	1407.5	1553.6	1728.8	1894.3	2042.0	2143.9	2186.5
32.5°	968.0	1058.8	1144.5	1255.4	1388.1	1552.3	1741.8	1914.5	2043.8	2111.6	2103.2
35°	932.1	1008.1	1091.6	1198.3	1354.7	1542.9	1749.3	1916.4	1995.7	1981.1	1871.1
37.5°	880.3	944.2	1026.5	1143.4	1315.9	1522.9	1734.2	1859.6	1854.4	1735.9	1576.6
40°	848.0	902.4	981.7	1104.5	1285.7	1510.0	1710.5	1791.9	1722.9	1557.4	1366.5
42.5°	805.7	855.8	935.1	1061.4	1252.5	1483.6	1665.2	1688.8	1553.8	1363.3	1188.4
45°	740.1	784.3	866.3	996.7	1202.7	1426.4	1554.7	1497.0	1315.3	1118.6	985.4
47.5°	669.7	715.7	794.5	928.5	1130.7	1340.2	1401.4	1278.7	1092.2	932.6	810.3
50°	625.3	669.6	746.6	881.9	1081.9	1269.6	1294.8	1136.4	965.0	824.8	724.5
52.5°	580.5	622.1	697.9	833.6	1025.0	1187.6	1172.0	1010.4	852.8	733.3	654.7
55°	513.7	553.1	625.3	752.6	926.7	1055.5	998.9	844.7	714.3	621.5	561.7
57.5°	454.0	491.7	554.1	669.0	820.4	908.9	836.9	706.9	603.2	531.9	487.2
60°	413.4	446.9	506.2	612.9	744.5	811.8	740.7	625.9	538.5	481.4	441.5
62.5°	375.1	404.2	459.1	556.0	670.3	726.9	654.9	557.7	483.3	432.7	398.8
65°	317.0	343.4	391.9	467.4	561.2	598.9	536.9	458.2	400.5	362.8	340.2
67.5°	264.0	286.4	328.3	387.7	456.7	484.2	437.0	376.0	332.6	302.3	284.3
70°	228.5	248.0	280.8	332.1	394.6	415.7	371.5	321.3	289.5	265.2	248.5
72.5°	198.8	213.0	242.9	282.5	334.6	351.3	320.5	276.5	246.8	228.5	215.3
75°	151.5	163.3	182.8	214.5	250.6	260.4	237.2	209.7	189.7	176.8	166.6
77.5°	109.2	118.0	132.0	151.6	176.6	185.4	170.6	152.3	137.8	129.0	123.3
80°	82.5	89.5	101.3	117.5	132.6	137.4	128.8	114.8	104.6	99.7	94.9
82.5°	60.9	64.9	72.0	83.0	93.4	99.1	91.7	83.3	77.9	73.4	71.6
85°	30.7	32.9	36.1	40.4	46.9	49.0	46.3	44.2	41.0	38.3	38.3
87.5°	11.9	12.4	14.1	15.4	17.7	19.5	19.6	19.4	19.6	19.3	19.0
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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1170.8	1171.3	1176.1	1179.5	1177.7	1180.0	1180.7
5°	1279.2	1298.6	1308.8	1316.4	1316.9	1317.5	1321.8
7.5°	1432.8	1453.7	1468.9	1491.9	1498.8	1506.7	1504.4
10°	1545.0	1575.7	1602.1	1616.1	1631.3	1653.4	1635.5
12.5°	1649.8	1704.2	1744.5	1766.2	1780.4	1784.9	1776.2
15°	1822.6	1893.8	1932.1	1930.9	1979.5	2000.5	1967.6
17.5°	1981.1	2046.8	2099.4	2126.3	2166.8	2175.7	2171.6
20°	2078.1	2149.8	2190.8	2237.1	2258.2	2277.0	2280.3
22.5°	2161.8	2226.2	2270.2	2308.7	2326.3	2335.3	2340.7
25°	2247.9	2298.6	2325.1	2338.5	2343.4	2342.2	2335.3
27.5°	2242.0	2245.9	2216.8	2188.2	2162.7	2133.9	2123.9
30°	2183.8	2138.5	2057.6	2011.8	1944.4	1891.1	1912.6
32.5°	2030.7	1940.5	1849.7	1749.6	1666.7	1643.1	1619.4
35°	1733.1	1574.6	1481.9	1374.1	1330.9	1287.9	1258.2
37.5°	1402.2	1279.5	1169.6	1099.1	1055.8	1028.6	1013.9
40°	1212.4	1101.8	1011.3	954.2	921.3	890.6	886.2
42.5°	1061.0	958.2	890.1	844.6	813.0	799.9	790.5
45°	869.0	797.3	751.5	719.1	698.1	690.0	679.2
47.5°	735.5	684.8	650.5	628.4	612.6	606.6	605.7
50°	660.9	618.9	593.5	576.2	563.9	561.7	553.1
52.5°	604.8	568.4	548.7	533.6	524.7	518.6	516.0
55°	525.1	500.8	483.0	474.4	467.4	461.4	461.4
57.5°	459.4	439.1	427.4	420.0	417.9	413.7	411.0
60°	418.8	401.6	392.4	386.0	381.7	382.2	377.3
62.5°	379.2	368.0	359.3	352.8	347.6	347.7	348.0
65°	322.9	314.3	307.8	305.6	302.5	298.7	299.8
67.5°	273.6	265.5	260.5	256.8	255.7	253.7	256.8
70°	238.3	232.3	228.5	225.3	224.3	224.8	227.5
72.5°	205.9	201.7	199.2	197.7	195.4	195.4	197.3
75°	161.7	158.5	156.3	154.7	154.2	154.2	154.2
77.5°	118.8	118.0	117.1	114.7	114.8	115.5	115.6
80°	93.8	92.2	91.7	90.5	89.0	87.9	90.5
82.5°	70.1	68.4	67.9	67.7	65.2	65.0	67.3
85°	37.7	36.1	36.7	36.1	36.1	35.6	35.6
87.5°	18.8	18.5	18.2	18.8	18.5	18.1	19.0
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)