

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: P332462-927

Luminaire Tested: **S123RDIW-S1000D1320U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332462-927
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: S123RDIW-S1000D1320U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7320.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

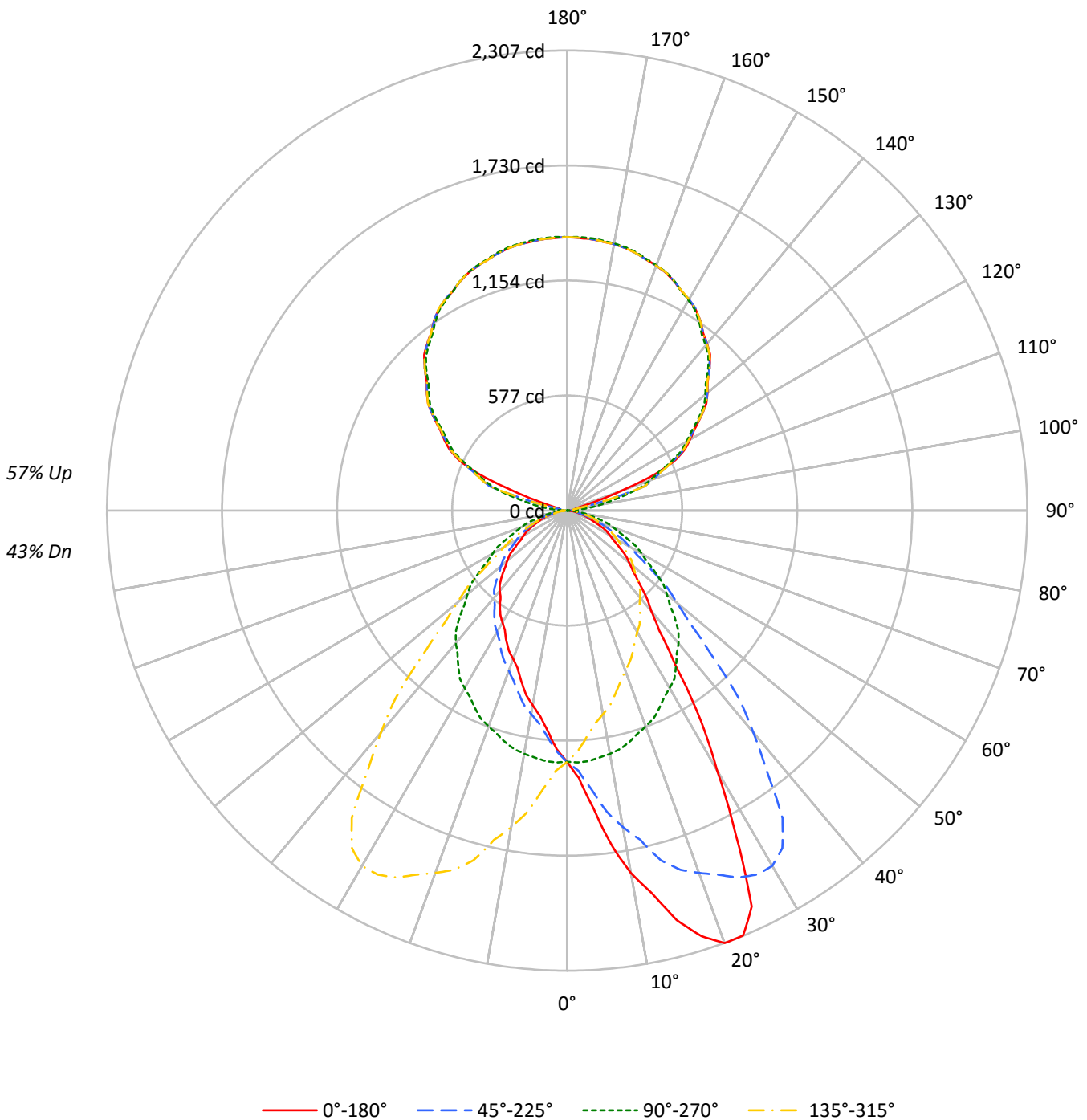
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13555	13555	13555	13555
5°	16159	13613	11988	13613
10°	20176	13535	10831	13535
15°	23682	13397	9877	13397
20°	26431	13190	9065	13190
25°	26008	12973	8568	12973
30°	18695	12771	8054	12771
35°	12482	12510	7721	12510
40°	9197	12197	7378	12197
45°	7715	11645	7042	11645
50°	6807	10923	6571	10923
55°	5970	10098	5928	10098
60°	5315	9309	5431	9309
65°	4669	8458	5053	8458
70°	3666	7704	4614	7704
75°	3227	6729	4213	6729
80°	2808	5715	4147	5715
85°	2260	4594	4397	4594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.7
10°-20°	386.9	5.3
20°-30°	607.8	8.3
30°-40°	634.2	8.7
40°-50°	542.7	7.4
50°-60°	413.6	5.7
60°-70°	265.1	3.6
70°-80°	127.5	1.7
80°-90°	37.6	0.5
90°-100°	49.8	0.7
100°-110°	237.6	3.2
110°-120°	570.6	7.8
120°-130°	726.7	9.9
130°-140°	776.4	10.6
140°-150°	726.0	9.9
150°-160°	585.6	8.0
160°-170°	378.0	5.2
170°-180°	130.3	1.8
0°-30°	1118.6	15.3
0°-40°	1752.8	23.9
0°-60°	2709.1	37.0
0°-90°	3139.4	42.9
90°-120°	858.1	11.7
90°-150°	3087.2	42.2
90°-180°	4181.0	57.1
0°-180°	7320.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1496	1260	1110	1260	1496	154
15°	2125	1202	886	1202	2125	603
25°	2190	1092	721	1092	2190	941
35°	950	952	588	952	950	623
45°	507	765	463	765	507	398
55°	318	538	316	538	318	288
65°	183	332	198	332	183	180
75°	78	162	101	162	78	83
85°	18	37	36	37	18	22
90°	31	1	31	1	31	14
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1341.3	1343.0	1337.4	1336.6	1330.1	1328.3	1328.3	1319.3	1313.7	1306.4	1302.0
5°	1495.5	1504.1	1499.8	1490.1	1473.9	1470.1	1459.9	1443.8	1425.4	1402.7	1391.9
7.5°	1688.1	1699.8	1695.3	1680.3	1663.3	1649.6	1620.8	1593.9	1556.3	1523.3	1495.1
10°	1845.9	1833.5	1823.8	1809.3	1793.6	1768.2	1738.0	1696.5	1648.6	1610.8	1568.8
12.5°	1964.1	1962.0	1949.7	1934.7	1912.6	1888.6	1851.5	1800.9	1745.2	1690.7	1642.5
15°	2125.2	2128.4	2120.3	2104.7	2073.4	2030.8	1974.8	1953.8	1873.9	1814.7	1755.3
17.5°	2236.6	2236.0	2234.9	2213.3	2181.4	2151.0	2099.0	2043.8	1971.5	1887.9	1808.1
20°	2307.4	2302.0	2303.0	2278.8	2255.1	2220.0	2169.4	2089.1	2029.7	1933.2	1850.8
22.5°	2305.6	2304.5	2308.7	2300.3	2283.1	2256.3	2216.4	2148.6	2072.8	1975.5	1882.7
25°	2189.8	2185.6	2210.9	2217.9	2245.4	2250.2	2238.4	2201.2	2129.5	2029.2	1914.4
27.5°	1832.7	1830.3	1877.4	1936.3	2010.9	2068.9	2124.9	2152.0	2129.5	2057.7	1942.6
30°	1504.1	1554.8	1578.5	1663.7	1758.6	1871.8	1970.9	2065.3	2088.5	2057.2	1962.9
32.5°	1248.8	1293.0	1312.8	1385.9	1474.3	1606.9	1755.8	1889.4	1983.7	2007.6	1950.8
35°	949.9	950.5	995.7	1028.1	1110.0	1246.4	1390.9	1569.9	1747.8	1882.5	1896.6
37.5°	758.0	760.7	788.1	820.3	881.8	953.9	1081.1	1229.9	1435.4	1642.4	1763.6
40°	654.5	659.3	679.9	711.6	755.8	810.2	909.5	1049.6	1221.1	1451.3	1639.4
42.5°	588.0	596.0	606.5	631.0	658.4	709.3	789.6	897.9	1053.8	1271.5	1488.5
45°	506.8	511.0	519.2	530.4	555.2	590.9	644.8	717.6	846.9	1022.2	1239.4
47.5°	447.0	444.7	453.3	462.5	479.0	503.2	539.3	598.7	691.0	831.6	1015.9
50°	406.5	405.9	411.9	418.9	434.5	452.3	482.0	526.7	600.0	716.4	885.2
52.5°	368.5	370.6	374.8	383.5	394.8	409.2	435.8	468.0	531.0	631.5	772.2
55°	318.1	319.7	325.6	330.5	338.6	353.1	369.8	396.8	439.9	510.0	625.9
57.5°	275.4	274.6	280.4	281.5	290.7	302.5	315.4	336.4	367.7	419.8	497.8
60°	246.9	245.3	250.2	253.9	258.8	268.5	279.2	299.8	324.6	362.8	429.7
62.5°	221.0	220.3	223.9	227.6	231.6	240.4	249.5	265.2	284.9	317.1	370.2
65°	183.3	184.9	186.6	188.1	190.3	195.7	204.3	215.1	228.5	251.2	289.5
67.5°	144.0	145.7	146.2	149.6	154.2	157.6	162.8	172.4	181.8	200.9	222.7
70°	116.5	115.9	116.5	118.0	124.0	129.9	137.0	143.9	149.9	163.3	181.6
72.5°	100.1	99.1	100.5	100.8	103.7	105.4	109.8	116.4	124.0	133.2	146.3
75°	77.6	77.6	77.6	77.6	79.8	80.9	82.5	84.1	86.8	91.1	100.8
77.5°	57.4	57.4	58.2	58.8	59.2	59.8	60.8	62.4	63.4	65.7	69.9
80°	45.3	45.8	45.3	45.8	45.8	46.9	47.5	49.0	49.6	52.3	53.9
82.5°	34.1	33.7	34.1	34.6	34.6	35.7	35.8	37.0	37.1	38.5	40.1
85°	18.3	17.3	18.3	17.8	18.9	17.8	18.3	19.4	19.4	20.0	22.1
87.5°	10.5	11.2	10.2	10.6	10.5	10.8	10.6	10.5	11.1	10.5	10.4
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1300.3	1299.0	1293.0	1286.1	1277.0	1271.0	1266.2	1263.7	1255.9	1246.4	1239.9
5°	1380.6	1364.5	1347.3	1326.2	1306.8	1286.8	1274.5	1259.9	1242.1	1222.2	1208.2
7.5°	1466.7	1435.0	1400.8	1365.6	1330.7	1299.5	1271.8	1248.2	1219.9	1191.3	1171.2
10°	1532.7	1486.3	1438.4	1389.3	1344.5	1302.5	1270.1	1238.3	1204.4	1171.5	1146.7
12.5°	1592.6	1531.6	1476.3	1416.0	1358.8	1308.5	1261.9	1224.6	1183.7	1148.6	1120.4
15°	1668.5	1606.0	1539.1	1447.5	1371.5	1307.9	1251.3	1202.2	1152.6	1109.5	1082.0
17.5°	1739.5	1645.4	1555.5	1479.1	1380.3	1300.8	1231.8	1173.1	1118.6	1072.9	1039.1
20°	1768.8	1677.7	1580.1	1482.6	1385.5	1296.6	1216.2	1151.5	1095.0	1043.1	1011.9
22.5°	1786.5	1683.3	1580.6	1475.7	1372.5	1280.2	1200.7	1129.6	1068.2	1019.0	980.4
25°	1807.0	1684.2	1571.0	1467.4	1362.3	1262.0	1167.7	1092.3	1026.0	973.6	932.6
27.5°	1820.7	1676.1	1542.3	1427.2	1320.6	1220.8	1134.2	1054.2	987.0	931.7	887.7
30°	1823.3	1669.6	1520.3	1395.7	1287.4	1195.7	1104.1	1027.5	956.4	897.6	856.7
32.5°	1826.7	1653.7	1490.5	1358.2	1247.3	1156.5	1073.5	1000.4	927.5	869.6	827.8
35°	1812.5	1644.8	1445.3	1293.3	1182.3	1094.4	1019.5	952.0	880.4	824.3	781.7
37.5°	1751.2	1609.8	1398.5	1220.2	1104.1	1022.7	961.6	902.9	837.1	776.7	736.5
40°	1689.6	1575.3	1362.3	1175.8	1054.5	970.9	915.9	868.0	804.4	747.7	704.6
42.5°	1597.7	1528.3	1327.9	1129.2	998.4	917.9	871.5	826.6	770.7	713.2	672.7
45°	1429.2	1438.4	1257.2	1055.0	920.8	840.0	796.2	765.0	715.4	668.0	626.5
47.5°	1217.8	1303.5	1174.3	976.0	838.9	763.0	724.8	697.6	664.2	617.6	579.7
50°	1079.8	1202.2	1107.9	923.0	787.7	712.2	674.4	652.3	623.2	586.5	550.4
52.5°	952.6	1084.0	1027.6	863.9	732.0	663.0	626.1	607.9	584.8	550.3	517.6
55°	776.8	910.0	897.1	774.7	648.6	586.5	558.5	538.1	522.4	496.5	470.6
57.5°	628.4	754.6	761.3	675.5	575.0	513.7	489.6	474.2	464.0	444.4	420.5
60°	534.8	650.7	673.4	608.6	522.4	468.5	444.7	432.4	424.3	408.6	390.3
62.5°	457.2	555.8	581.5	534.9	471.9	421.4	402.9	390.9	385.5	372.0	355.8
65°	349.9	431.8	456.6	430.7	397.8	357.4	342.3	332.1	327.3	319.7	307.8
67.5°	263.1	322.8	350.0	331.8	319.9	294.4	284.8	279.2	275.0	269.7	259.8
70°	211.4	255.6	283.6	278.7	269.0	255.6	248.5	244.8	240.4	236.1	227.5
72.5°	169.9	200.3	226.6	229.1	221.2	218.5	212.3	210.7	208.1	203.0	198.2
75°	112.6	133.7	152.0	159.1	162.2	164.9	162.2	161.8	161.2	156.9	154.2
77.5°	73.8	85.2	96.7	108.7	113.8	117.4	118.3	120.3	118.8	116.5	115.3
80°	56.6	59.3	67.4	77.6	85.7	89.0	91.1	92.2	91.7	91.1	89.0
82.5°	41.1	43.3	47.1	54.3	61.2	66.5	67.8	67.6	68.8	69.1	67.4
85°	22.1	22.7	23.7	24.8	28.6	34.5	36.1	37.2	38.3	38.3	35.0
87.5°	10.6	9.6	9.9	9.3	10.2	10.1	12.3	14.0	14.9	13.6	14.1
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1237.8	1232.2	1228.3	1219.6	1214.1	1208.0	1202.0	1205.9	1205.5	1205.0	1205.0
5°	1196.3	1183.8	1172.6	1158.0	1148.8	1137.5	1128.9	1127.8	1130.0	1122.4	1118.1
7.5°	1155.1	1138.1	1122.1	1106.0	1089.0	1075.4	1066.9	1062.9	1057.4	1052.7	1047.9
10°	1126.2	1106.3	1090.6	1070.6	1052.3	1036.2	1026.0	1018.9	1015.1	1011.4	1004.3
12.5°	1096.5	1076.9	1057.0	1034.4	1017.0	998.2	990.5	982.7	975.5	971.2	961.6
15°	1052.9	1027.5	1006.5	982.8	963.4	945.1	934.3	918.6	916.5	911.1	901.4
17.5°	1009.2	981.7	952.7	935.2	913.2	894.1	877.7	872.5	857.1	851.3	842.8
20°	974.7	949.4	927.2	904.1	872.3	854.4	841.5	834.6	822.1	814.6	809.2
22.5°	944.9	919.2	893.7	866.6	840.3	820.4	811.0	800.0	793.2	782.7	776.8
25°	902.5	874.4	843.7	814.6	795.7	780.6	765.6	755.8	746.2	741.2	730.5
27.5°	853.1	823.8	795.0	772.9	749.8	734.9	721.2	712.6	700.9	692.8	686.8
30°	825.9	791.4	766.6	746.6	717.0	703.0	692.8	682.0	673.4	664.7	658.8
32.5°	794.4	763.0	739.4	714.8	692.0	676.7	663.5	653.9	646.6	638.4	632.5
35°	745.0	718.7	694.3	669.6	652.8	637.2	621.6	613.5	606.5	599.0	593.6
37.5°	700.4	675.7	652.7	629.2	608.4	595.7	583.1	576.9	567.4	562.4	556.9
40°	672.8	648.6	623.8	601.1	579.6	569.8	558.5	549.4	540.7	536.9	531.0
42.5°	642.6	618.4	597.5	573.1	555.4	542.2	531.8	521.7	515.3	509.8	506.4
45°	597.9	576.3	555.8	531.6	514.8	503.5	491.6	482.5	476.6	472.8	466.8
47.5°	554.4	532.8	512.1	490.9	474.8	461.8	450.0	443.5	435.7	431.1	427.1
50°	522.9	503.5	481.4	462.0	445.8	432.9	423.2	415.1	408.1	402.2	399.5
52.5°	494.0	473.3	454.2	436.2	419.1	404.4	395.6	387.1	381.8	375.0	371.9
55°	446.4	426.4	410.3	392.4	375.7	363.4	352.6	345.0	339.6	332.1	327.8
57.5°	401.6	383.7	364.4	349.0	331.8	321.3	312.4	302.1	295.6	289.6	285.4
60°	371.5	350.9	334.2	319.7	304.6	291.1	283.0	275.0	267.9	262.0	258.3
62.5°	339.9	322.1	306.2	290.3	276.6	264.8	255.4	248.7	242.5	238.7	235.0
65°	291.7	277.7	261.5	248.5	235.6	227.0	219.4	213.5	209.1	206.4	203.3
67.5°	247.2	233.6	219.5	206.8	198.2	191.6	186.6	181.6	179.4	175.9	173.8
70°	218.3	204.3	191.9	182.2	173.6	168.7	165.5	161.8	159.5	155.3	153.1
72.5°	186.9	176.7	167.8	159.8	152.9	148.5	144.3	139.7	136.3	131.5	129.4
75°	147.2	138.0	131.0	125.6	121.3	115.3	109.4	104.6	103.0	101.3	100.8
77.5°	109.0	103.2	98.2	93.6	88.2	83.9	82.6	81.5	81.2	80.3	80.3
80°	85.7	80.3	76.5	71.1	67.9	67.9	67.9	66.9	67.4	67.4	67.4
82.5°	63.7	58.8	56.7	54.7	54.1	54.6	54.6	54.7	54.4	55.3	54.9
85°	32.9	33.4	34.5	34.0	34.5	34.5	35.6	35.0	35.6	34.5	35.6
87.5°	14.1	15.9	17.0	18.0	18.9	19.1	19.7	19.9	20.5	20.7	20.8
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1199.8	1199.4	1199.8	1198.1	1199.8	1199.4	1199.8	1205.0	1205.0	1205.5	1205.9
5°	1116.5	1115.9	1114.4	1109.5	1114.4	1115.9	1116.5	1118.1	1122.4	1130.0	1127.8
7.5°	1043.7	1043.0	1038.2	1038.3	1038.2	1043.0	1043.7	1047.9	1052.7	1057.4	1062.9
10°	1000.6	1001.1	994.7	990.9	994.7	1001.1	1000.6	1004.3	1011.4	1015.1	1018.9
12.5°	958.8	956.2	951.1	946.9	951.1	956.2	958.8	961.6	971.2	975.5	982.7
15°	903.6	898.2	885.2	886.3	885.2	898.2	903.6	901.4	911.1	916.5	918.6
17.5°	838.5	834.6	834.3	826.8	834.3	834.6	838.5	842.8	851.3	857.1	872.5
20°	800.6	797.9	798.9	791.4	798.9	797.9	800.6	809.2	814.6	822.1	834.6
22.5°	770.8	768.1	763.6	761.2	763.6	768.1	770.8	776.8	782.7	793.2	800.0
25°	727.2	722.9	718.7	721.4	718.7	722.9	727.2	730.5	741.2	746.2	755.8
27.5°	683.7	680.5	676.1	675.6	676.1	680.5	683.7	686.8	692.8	700.9	712.6
30°	656.1	652.8	650.7	648.0	650.7	652.8	656.1	658.8	664.7	673.4	682.0
32.5°	628.0	627.4	623.5	623.0	623.5	627.4	628.0	632.5	638.4	646.6	653.9
35°	591.4	588.2	587.1	587.6	587.1	588.2	591.4	593.6	599.0	606.5	613.5
37.5°	556.6	552.2	550.3	548.3	550.3	552.2	556.6	556.9	562.4	567.4	576.9
40°	531.6	527.3	526.2	525.1	526.2	527.3	531.6	531.0	536.9	540.7	549.4
42.5°	503.5	501.8	501.1	499.2	501.1	501.8	503.5	506.4	509.8	515.3	521.7
45°	465.2	464.7	461.4	462.6	461.4	464.7	465.2	466.8	472.8	476.6	482.5
47.5°	424.9	422.6	420.3	421.8	420.3	422.6	424.9	427.1	431.1	435.7	443.5
50°	397.4	396.2	391.4	392.4	391.4	396.2	397.4	399.5	402.2	408.1	415.1
52.5°	369.7	365.6	363.8	363.1	363.8	365.6	369.7	371.9	375.0	381.8	387.1
55°	324.0	319.2	317.0	315.9	317.0	319.2	324.0	327.8	332.1	339.6	345.0
57.5°	279.2	277.8	276.2	277.3	276.2	277.8	279.2	285.4	289.6	295.6	302.1
60°	252.9	252.9	252.9	252.3	252.9	252.9	252.9	258.3	262.0	267.9	275.0
62.5°	232.6	231.2	230.8	231.6	230.8	231.2	232.6	235.0	238.7	242.5	248.7
65°	201.6	201.1	198.9	198.4	198.9	201.1	201.6	203.3	206.4	209.1	213.5
67.5°	172.4	170.5	169.8	169.1	169.8	170.5	172.4	173.8	175.9	179.4	181.6
70°	150.4	149.3	146.1	146.6	146.1	149.3	150.4	153.1	155.3	159.5	161.8
72.5°	126.7	125.6	124.9	124.2	124.9	125.6	126.7	129.4	131.5	136.3	139.7
75°	100.3	99.7	99.2	101.3	99.2	99.7	100.3	100.8	101.3	103.0	104.6
77.5°	80.3	80.3	80.6	79.8	80.6	80.3	80.3	80.3	80.3	81.2	81.5
80°	67.4	67.4	66.9	66.9	66.9	67.4	67.4	67.4	67.4	67.4	66.9
82.5°	54.0	54.4	54.7	53.9	54.7	54.4	54.0	54.9	55.3	54.4	54.7
85°	35.6	35.0	36.1	35.6	36.1	35.0	35.6	35.6	34.5	35.6	35.0
87.5°	21.8	21.0	21.2	21.6	21.2	21.0	21.8	20.8	20.7	20.5	19.9
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1202.0	1208.0	1214.1	1219.6	1228.3	1232.2	1237.8	1239.9	1246.4	1255.9	1263.7
5°	1128.9	1137.5	1148.8	1158.0	1172.6	1183.8	1196.3	1208.2	1222.2	1242.1	1259.9
7.5°	1066.9	1075.4	1089.0	1106.0	1122.1	1138.1	1155.1	1171.2	1191.3	1219.9	1248.2
10°	1026.0	1036.2	1052.3	1070.6	1090.6	1106.3	1126.2	1146.7	1171.5	1204.4	1238.3
12.5°	990.5	998.2	1017.0	1034.4	1057.0	1076.9	1096.5	1120.4	1148.6	1183.7	1224.6
15°	934.3	945.1	963.4	982.8	1006.5	1027.5	1052.9	1082.0	1109.5	1152.6	1202.2
17.5°	877.7	894.1	913.2	935.2	952.7	981.7	1009.2	1039.1	1072.9	1118.6	1173.1
20°	841.5	854.4	872.3	904.1	927.2	949.4	974.7	1011.9	1043.1	1095.0	1151.5
22.5°	811.0	820.4	840.3	866.6	893.7	919.2	944.9	980.4	1019.0	1068.2	1129.6
25°	765.6	780.6	795.7	814.6	843.7	874.4	902.5	932.6	973.6	1026.0	1092.3
27.5°	721.2	734.9	749.8	772.9	795.0	823.8	853.1	887.7	931.7	987.0	1054.2
30°	692.8	703.0	717.0	746.6	766.6	791.4	825.9	856.7	897.6	956.4	1027.5
32.5°	663.5	676.7	692.0	714.8	739.4	763.0	794.4	827.8	869.6	927.5	1000.4
35°	621.6	637.2	652.8	669.6	694.3	718.7	745.0	781.7	824.3	880.4	952.0
37.5°	583.1	595.7	608.4	629.2	652.7	675.7	700.4	736.5	776.7	837.1	902.9
40°	558.5	569.8	579.6	601.1	623.8	648.6	672.8	704.6	747.7	804.4	868.0
42.5°	531.8	542.2	555.4	573.1	597.5	618.4	642.6	672.7	713.2	770.7	826.6
45°	491.6	503.5	514.8	531.6	555.8	576.3	597.9	626.5	668.0	715.4	765.0
47.5°	450.0	461.8	474.8	490.9	512.1	532.8	554.4	579.7	617.6	664.2	697.6
50°	423.2	432.9	445.8	462.0	481.4	503.5	522.9	550.4	586.5	623.2	652.3
52.5°	395.6	404.4	419.1	436.2	454.2	473.3	494.0	517.6	550.3	584.8	607.9
55°	352.6	363.4	375.7	392.4	410.3	426.4	446.4	470.6	496.5	522.4	538.1
57.5°	312.4	321.3	331.8	349.0	364.4	383.7	401.6	420.5	444.4	464.0	474.2
60°	283.0	291.1	304.6	319.7	334.2	350.9	371.5	390.3	408.6	424.3	432.4
62.5°	255.4	264.8	276.6	290.3	306.2	322.1	339.9	355.8	372.0	385.5	390.9
65°	219.4	227.0	235.6	248.5	261.5	277.7	291.7	307.8	319.7	327.3	332.1
67.5°	186.6	191.6	198.2	206.8	219.5	233.6	247.2	259.8	269.7	275.0	279.2
70°	165.5	168.7	173.6	182.2	191.9	204.3	218.3	227.5	236.1	240.4	244.8
72.5°	144.3	148.5	152.9	159.8	167.8	176.7	186.9	198.2	203.0	208.1	210.7
75°	109.4	115.3	121.3	125.6	131.0	138.0	147.2	154.2	156.9	161.2	161.8
77.5°	82.6	83.9	88.2	93.6	98.2	103.2	109.0	115.3	116.5	118.8	120.3
80°	67.9	67.9	67.9	71.1	76.5	80.3	85.7	89.0	91.1	91.7	92.2
82.5°	54.6	54.6	54.1	54.7	56.7	58.8	63.7	67.4	69.1	68.8	67.6
85°	35.6	34.5	34.5	34.0	34.5	33.4	32.9	35.0	38.3	38.3	37.2
87.5°	19.7	19.1	18.9	18.0	17.0	15.9	14.1	14.1	13.6	14.9	14.0
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1266.2	1271.0	1277.0	1286.1	1293.0	1299.0	1300.3	1302.0	1306.4	1313.7	1319.3
5°	1274.5	1286.8	1306.8	1326.2	1347.3	1364.5	1380.6	1391.9	1402.7	1425.4	1443.8
7.5°	1271.8	1299.5	1330.7	1365.6	1400.8	1435.0	1466.7	1495.1	1523.3	1556.3	1593.9
10°	1270.1	1302.5	1344.5	1389.3	1438.4	1486.3	1532.7	1568.8	1610.8	1648.6	1696.5
12.5°	1261.9	1308.5	1358.8	1416.0	1476.3	1531.6	1592.6	1642.5	1690.7	1745.2	1800.9
15°	1251.3	1307.9	1371.5	1447.5	1539.1	1606.0	1668.5	1755.3	1814.7	1873.9	1953.8
17.5°	1231.8	1300.8	1380.3	1479.1	1555.5	1645.4	1739.5	1808.1	1887.9	1971.5	2043.8
20°	1216.2	1296.6	1385.5	1482.6	1580.1	1677.7	1768.8	1850.8	1933.2	2029.7	2089.1
22.5°	1200.7	1280.2	1372.5	1475.7	1580.6	1683.3	1786.5	1882.7	1975.5	2072.8	2148.6
25°	1167.7	1262.0	1362.3	1467.4	1571.0	1684.2	1807.0	1914.4	2029.2	2129.5	2201.2
27.5°	1134.2	1220.8	1320.6	1427.2	1542.3	1676.1	1820.7	1942.6	2057.7	2129.5	2152.0
30°	1104.1	1195.7	1287.4	1395.7	1520.3	1669.6	1823.3	1962.9	2057.2	2088.5	2065.3
32.5°	1073.5	1156.5	1247.3	1358.2	1490.5	1653.7	1826.7	1950.8	2007.6	1983.7	1889.4
35°	1019.5	1094.4	1182.3	1293.3	1445.3	1644.8	1812.5	1896.6	1882.5	1747.8	1569.9
37.5°	961.6	1022.7	1104.1	1220.2	1398.5	1609.8	1751.2	1763.6	1642.4	1435.4	1229.9
40°	915.9	970.9	1054.5	1175.8	1362.3	1575.3	1689.6	1639.4	1451.3	1221.1	1049.6
42.5°	871.5	917.9	998.4	1129.2	1327.9	1528.3	1597.7	1488.5	1271.5	1053.8	897.9
45°	796.2	840.0	920.8	1055.0	1257.2	1438.4	1429.2	1239.4	1022.2	846.9	717.6
47.5°	724.8	763.0	838.9	976.0	1174.3	1303.5	1217.8	1015.9	831.6	691.0	598.7
50°	674.4	712.2	787.7	923.0	1107.9	1202.2	1079.8	885.2	716.4	600.0	526.7
52.5°	626.1	663.0	732.0	863.9	1027.6	1084.0	952.6	772.2	631.5	531.0	468.0
55°	558.5	586.5	648.6	774.7	897.1	910.0	776.8	625.9	510.0	439.9	396.8
57.5°	489.6	513.7	575.0	675.5	761.3	754.6	628.4	497.8	419.8	367.7	336.4
60°	444.7	468.5	522.4	608.6	673.4	650.7	534.8	429.7	362.8	324.6	299.8
62.5°	402.9	421.4	471.9	534.9	581.5	555.8	457.2	370.2	317.1	284.9	265.2
65°	342.3	357.4	397.8	430.7	456.6	431.8	349.9	289.5	251.2	228.5	215.1
67.5°	284.8	294.4	319.9	331.8	350.0	322.8	263.1	222.7	200.9	181.8	172.4
70°	248.5	255.6	269.0	278.7	283.6	255.6	211.4	181.6	163.3	149.9	143.9
72.5°	212.3	218.5	221.2	229.1	226.6	200.3	169.9	146.3	133.2	124.0	116.4
75°	162.2	164.9	162.2	159.1	152.0	133.7	112.6	100.8	91.1	86.8	84.1
77.5°	118.3	117.4	113.8	108.7	96.7	85.2	73.8	69.9	65.7	63.4	62.4
80°	91.1	89.0	85.7	77.6	67.4	59.3	56.6	53.9	52.3	49.6	49.0
82.5°	67.8	66.5	61.2	54.3	47.1	43.3	41.1	40.1	38.5	37.1	37.0
85°	36.1	34.5	28.6	24.8	23.7	22.7	22.1	22.1	20.0	19.4	19.4
87.5°	12.3	10.1	10.2	9.3	9.9	9.6	10.6	10.4	10.5	11.1	10.5
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1328.3	1328.3	1330.1	1336.6	1337.4	1343.0	1341.3
5°	1459.9	1470.1	1473.9	1490.1	1499.8	1504.1	1495.5
7.5°	1620.8	1649.6	1663.3	1680.3	1695.3	1699.8	1688.1
10°	1738.0	1768.2	1793.6	1809.3	1823.8	1833.5	1845.9
12.5°	1851.5	1888.6	1912.6	1934.7	1949.7	1962.0	1964.1
15°	1974.8	2030.8	2073.4	2104.7	2120.3	2128.4	2125.2
17.5°	2099.0	2151.0	2181.4	2213.3	2234.9	2236.0	2236.6
20°	2169.4	2220.0	2255.1	2278.8	2303.0	2302.0	2307.4
22.5°	2216.4	2256.3	2283.1	2300.3	2308.7	2304.5	2305.6
25°	2238.4	2250.2	2245.4	2217.9	2210.9	2185.6	2189.8
27.5°	2124.9	2068.9	2010.9	1936.3	1877.4	1830.3	1832.7
30°	1970.9	1871.8	1758.6	1663.7	1578.5	1554.8	1504.1
32.5°	1755.8	1606.9	1474.3	1385.9	1312.8	1293.0	1248.8
35°	1390.9	1246.4	1110.0	1028.1	995.7	950.5	949.9
37.5°	1081.1	953.9	881.8	820.3	788.1	760.7	758.0
40°	909.5	810.2	755.8	711.6	679.9	659.3	654.5
42.5°	789.6	709.3	658.4	631.0	606.5	596.0	588.0
45°	644.8	590.9	555.2	530.4	519.2	511.0	506.8
47.5°	539.3	503.2	479.0	462.5	453.3	444.7	447.0
50°	482.0	452.3	434.5	418.9	411.9	405.9	406.5
52.5°	435.8	409.2	394.8	383.5	374.8	370.6	368.5
55°	369.8	353.1	338.6	330.5	325.6	319.7	318.1
57.5°	315.4	302.5	290.7	281.5	280.4	274.6	275.4
60°	279.2	268.5	258.8	253.9	250.2	245.3	246.9
62.5°	249.5	240.4	231.6	227.6	223.9	220.3	221.0
65°	204.3	195.7	190.3	188.1	186.6	184.9	183.3
67.5°	162.8	157.6	154.2	149.6	146.2	145.7	144.0
70°	137.0	129.9	124.0	118.0	116.5	115.9	116.5
72.5°	109.8	105.4	103.7	100.8	100.5	99.1	100.1
75°	82.5	80.9	79.8	77.6	77.6	77.6	77.6
77.5°	60.8	59.8	59.2	58.8	58.2	57.4	57.4
80°	47.5	46.9	45.8	45.8	45.3	45.8	45.3
82.5°	35.8	35.7	34.6	34.6	34.1	33.7	34.1
85°	18.3	17.8	18.9	17.8	18.3	17.3	18.3
87.5°	10.6	10.8	10.5	10.6	10.2	11.2	10.5
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)