

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: P332384-930

Luminaire Tested: **S123RDIP-S1165D1195U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332384-930
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: S123RDIP-S1165D1195U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7618.6 lumens
Efficiency: N/A
Efficacy: 106.3 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

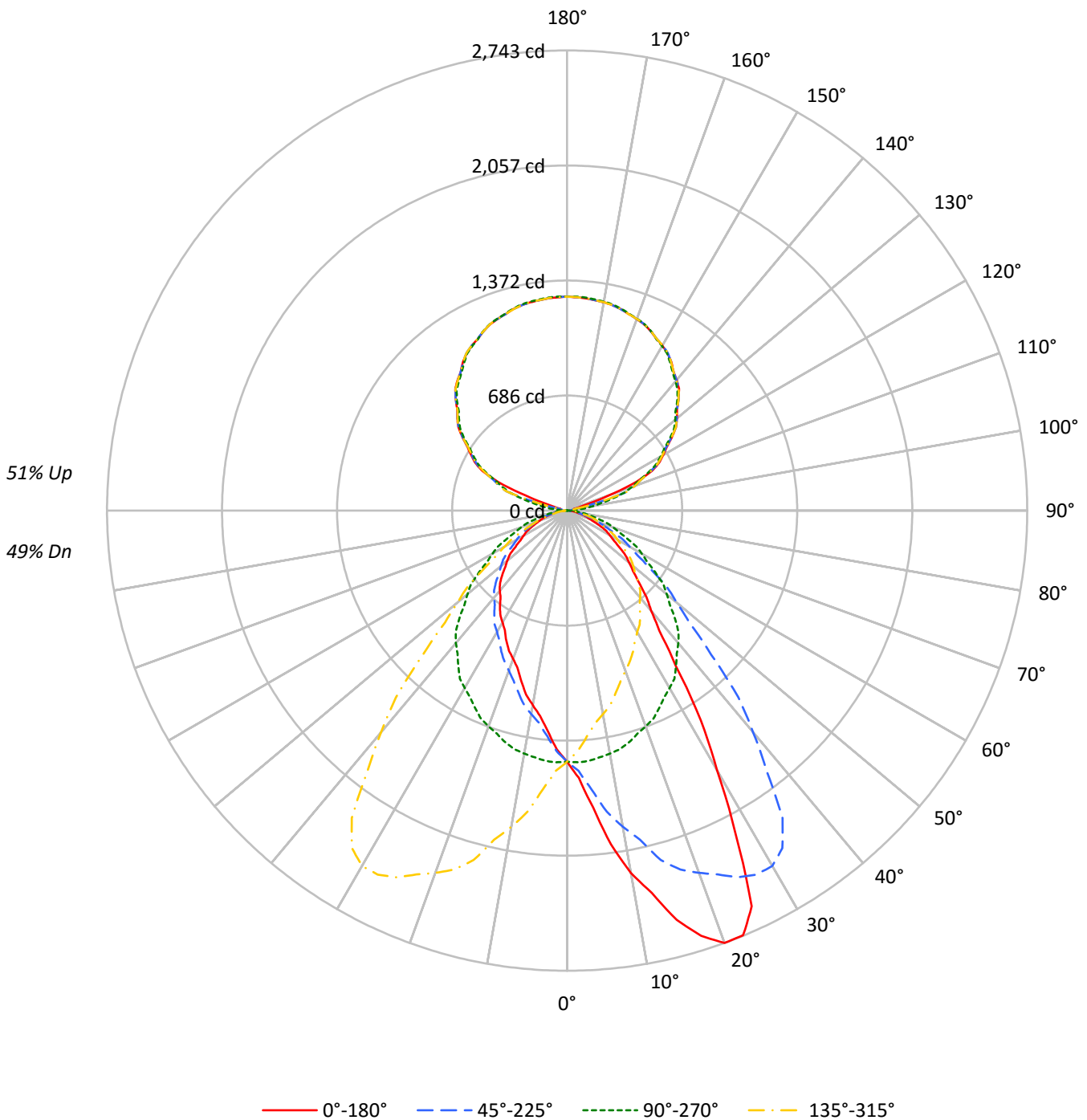
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69	61	59	58	50	49	48	42
2	90	83	77	72	83	77	72	67	65	61	58	54	52	49	44	43	41	36
3	82	73	66	61	76	68	62	57	58	53	50	48	45	42	40	38	36	32
4	76	65	58	52	69	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	58	50	45	64	54	47	42	47	41	37	39	35	32	33	30	27	24
6	64	53	45	39	59	49	42	37	42	37	33	36	32	28	30	27	24	22
7	59	48	40	34	55	44	37	33	38	33	29	33	28	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	51	40	32	27	48	37	30	26	32	27	23	28	24	21	23	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16113	16113	16113	16113
5°	19207	16181	14249	16181
10°	23981	16088	12873	16088
15°	28149	15924	11739	15924
20°	31416	15678	10775	15678
25°	30914	15419	10183	15419
30°	22222	15181	9573	15181
35°	14837	14870	9179	14870
40°	10932	14497	8769	14497
45°	9168	13842	8369	13842
50°	8090	12983	7812	12983
55°	7096	12001	7047	12001
60°	6318	11063	6456	11063
65°	5547	10055	6006	10055
70°	4356	9155	5485	9155
75°	3839	7993	5011	7993
80°	3335	6794	4928	6794
85°	2692	5459	5224	5459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	1.9
10°-20°	459.9	6.0
20°-30°	722.5	9.5
30°-40°	753.8	9.9
40°-50°	645.1	8.5
50°-60°	491.7	6.5
60°-70°	315.1	4.1
70°-80°	151.6	2.0
80°-90°	43.7	0.6
90°-100°	46.4	0.6
100°-110°	220.9	2.9
110°-120°	530.6	7.0
120°-130°	675.7	8.9
130°-140°	722.0	9.5
140°-150°	675.1	8.9
150°-160°	544.6	7.1
160°-170°	351.5	4.6
170°-180°	121.1	1.6
0°-30°	1329.6	17.5
0°-40°	2083.4	27.3
0°-60°	3220.2	42.3
0°-90°	3730.6	49.0
90°-120°	797.9	10.5
90°-150°	2870.8	37.7
90°-180°	3888.0	51.0
0°-180°	7618.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1497	1497	1497	1497	1497	
5°	1778	1498	1319	1498	1778	184
15°	2526	1429	1053	1429	2526	716
25°	2603	1298	857	1298	2603	1119
35°	1129	1132	698	1132	1129	740
45°	602	909	550	909	602	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	214
75°	92	192	120	192	92	99
85°	22	44	42	44	22	26
90°	28	1	28	1	28	14
95°	36	58	36	58	36	30
105°	42	282	42	282	42	95
115°	557	530	557	530	557	515
125°	762	746	762	746	762	680
135°	939	929	939	929	939	724
145°	1083	1072	1083	1072	1083	676
155°	1179	1181	1179	1181	1179	544
165°	1243	1246	1243	1246	1243	351
175°	1270	1275	1270	1275	1270	121
180°	1275	1275	1275	1275	1275	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1594.3	1596.4	1589.7	1588.7	1580.9	1578.9	1578.9	1568.1	1561.5	1552.8	1547.7
5°	1777.6	1787.9	1782.7	1771.2	1751.9	1747.4	1735.3	1716.0	1694.3	1667.4	1654.6
7.5°	2006.5	2020.5	2015.1	1997.2	1977.1	1960.9	1926.5	1894.6	1849.8	1810.6	1777.0
10°	2194.1	2179.4	2167.8	2150.5	2131.9	2101.8	2066.0	2016.6	1959.6	1914.7	1864.8
12.5°	2334.5	2332.2	2317.5	2299.7	2273.5	2244.8	2200.7	2140.6	2074.4	2009.5	1952.4
15°	2526.0	2529.9	2520.3	2501.7	2464.5	2413.9	2347.2	2322.3	2227.4	2157.0	2086.4
17.5°	2658.5	2657.8	2656.5	2630.7	2592.8	2556.8	2495.0	2429.3	2343.4	2244.1	2149.1
20°	2742.6	2736.2	2737.5	2708.7	2680.5	2638.8	2578.5	2483.1	2412.6	2297.9	2199.8
22.5°	2740.5	2739.3	2744.1	2734.3	2713.8	2681.8	2634.5	2553.8	2463.9	2348.1	2237.8
25°	2602.9	2597.8	2628.0	2636.3	2669.0	2674.7	2660.6	2616.4	2531.2	2412.0	2275.5
27.5°	2178.5	2175.6	2231.6	2301.5	2390.2	2459.1	2525.8	2557.9	2531.2	2445.8	2309.1
30°	1787.9	1848.0	1876.2	1977.5	2090.3	2224.9	2342.8	2454.9	2482.4	2445.3	2333.1
32.5°	1484.3	1536.9	1560.5	1647.4	1752.5	1910.1	2086.9	2245.7	2357.9	2386.3	2318.8
35°	1129.1	1129.8	1183.6	1222.0	1319.4	1481.6	1653.3	1866.0	2077.5	2237.7	2254.3
37.5°	901.0	904.2	936.7	975.0	1048.1	1133.8	1285.1	1461.9	1706.2	1952.2	2096.3
40°	778.0	783.7	808.0	845.9	898.4	963.1	1081.0	1247.7	1451.4	1725.0	1948.6
42.5°	699.0	708.3	720.9	750.0	782.5	843.2	938.5	1067.2	1252.5	1511.2	1769.3
45°	602.3	607.5	617.1	630.6	660.0	702.3	766.4	852.9	1006.7	1215.0	1473.2
47.5°	531.3	528.6	538.7	549.7	569.3	598.1	641.1	711.7	821.4	988.5	1207.5
50°	483.1	482.5	489.6	497.9	516.5	537.6	572.9	626.1	713.2	851.7	1052.2
52.5°	438.1	440.5	445.5	455.8	469.3	486.4	518.0	556.4	631.2	750.6	917.9
55°	378.1	380.0	387.0	392.8	402.4	419.7	439.6	471.7	522.9	606.2	744.0
57.5°	327.3	326.4	333.2	334.6	345.5	359.6	375.0	399.8	437.0	499.0	591.7
60°	293.5	291.6	297.3	301.8	307.6	319.1	331.9	356.3	385.8	431.3	510.7
62.5°	262.7	261.8	266.0	270.5	275.3	285.8	296.5	315.3	338.6	376.9	439.9
65°	217.8	219.8	221.7	223.6	226.2	232.6	242.9	255.7	271.7	298.6	344.1
67.5°	171.2	173.2	173.8	177.7	183.3	187.3	193.6	205.0	216.1	238.8	264.6
70°	138.4	137.8	138.4	140.3	147.4	154.4	162.7	171.1	178.1	194.1	216.0
72.5°	119.0	117.8	119.4	119.8	123.3	125.2	130.4	138.3	147.4	158.2	173.9
75°	92.3	92.3	92.3	92.3	94.8	96.1	98.1	100.0	103.1	108.3	119.8
77.5°	68.2	68.3	69.2	69.9	70.4	71.1	72.3	74.2	75.3	78.0	83.1
80°	53.8	54.5	53.8	54.5	54.5	55.8	56.4	58.3	58.9	62.1	64.1
82.5°	40.5	40.1	40.5	41.2	41.2	42.4	42.6	43.9	44.1	45.7	47.7
85°	21.8	20.5	21.8	21.1	22.4	21.1	21.8	23.1	23.1	23.7	26.3
87.5°	10.8	11.7	10.7	11.1	11.0	11.3	11.2	11.0	11.9	11.3	11.2
90°	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.4	23.6	22.7	20.0
92.5°	31.5	31.2	31.0	30.7	30.4	29.7	28.3	26.9	25.6	24.2	22.2
95°	36.0	36.0	36.0	36.0	36.0	35.2	33.8	32.3	30.8	29.4	27.1
97.5°	39.1	38.8	38.6	38.4	38.2	37.3	35.5	33.8	32.2	30.5	45.7
100°	39.8	39.5	39.4	39.1	39.0	38.0	36.3	34.7	32.9	31.2	64.1
102.5°	40.5	40.2	39.8	39.4	39.1	41.4	46.6	51.9	57.1	62.3	98.2
105°	41.7	41.3	40.8	40.4	40.0	58.4	95.6	132.9	170.2	207.4	226.4
107.5°	130.9	159.0	187.0	215.2	243.2	270.9	298.2	325.5	352.9	380.3	377.2
110°	260.5	290.6	320.7	350.8	380.9	399.4	406.3	413.3	420.3	427.2	424.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.9	453.2	459.6	465.9	472.3	475.5	475.3	475.2	475.1	474.9	472.6
115°	556.9	556.1	555.3	554.4	553.6	552.1	550.0	547.9	545.8	543.7	541.8
117.5°	618.7	618.6	618.4	618.2	618.1	617.1	615.5	613.8	612.0	610.4	609.4
120°	661.1	661.1	661.1	661.1	661.1	660.3	658.6	657.0	655.3	653.5	653.0
122.5°	702.9	702.7	702.5	702.3	702.1	701.5	700.3	699.1	698.0	696.8	695.9
125°	761.6	761.2	760.8	760.3	759.9	759.5	759.0	758.6	758.2	757.7	756.9
127.5°	818.0	818.5	818.9	819.3	819.7	819.5	818.9	818.2	817.6	816.8	815.9
130°	854.4	854.8	855.2	855.7	856.1	855.9	855.0	854.2	853.4	852.5	851.7
132.5°	887.7	888.4	888.9	889.5	890.1	890.0	889.2	888.3	887.5	886.6	885.9
135°	938.7	939.3	940.0	940.6	941.3	941.3	940.6	940.0	939.3	938.7	937.8
137.5°	986.6	987.1	987.5	987.9	988.3	988.0	987.0	986.0	985.0	984.0	983.5
140°	1015.5	1015.9	1016.3	1016.7	1017.1	1016.9	1016.0	1015.2	1014.4	1013.5	1012.9
142.5°	1042.0	1042.5	1043.1	1043.7	1044.3	1044.2	1043.6	1042.9	1042.3	1041.5	1041.0
145°	1082.6	1082.6	1082.6	1082.6	1082.6	1082.5	1082.1	1081.7	1081.2	1080.8	1080.4
147.5°	1113.0	1113.9	1114.9	1115.9	1116.9	1117.1	1116.7	1116.3	1115.9	1115.4	1115.0
150°	1135.7	1136.4	1137.0	1137.6	1138.2	1138.3	1137.9	1137.5	1137.1	1136.7	1136.3
152.5°	1153.9	1154.9	1155.8	1156.8	1157.8	1157.9	1157.2	1156.3	1155.6	1154.9	1154.6
155°	1179.3	1180.6	1181.9	1183.1	1184.3	1184.5	1183.4	1182.3	1181.3	1180.2	1180.1
157.5°	1200.7	1202.3	1204.0	1205.7	1207.3	1207.5	1206.2	1204.9	1203.7	1202.4	1202.6
160°	1214.3	1215.8	1217.3	1218.8	1220.3	1220.3	1219.0	1217.8	1216.6	1215.3	1215.5
162.5°	1227.2	1228.5	1229.8	1231.1	1232.4	1232.4	1230.9	1229.6	1228.1	1226.6	1226.9
165°	1242.8	1244.2	1245.7	1247.2	1248.6	1248.5	1246.8	1245.2	1243.5	1241.8	1242.0
167.5°	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7	1259.0	1257.3	1255.6	1253.9	1253.9
170°	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5	1265.8	1264.1	1262.4	1260.8	1260.8
172.5°	1264.5	1266.4	1268.3	1270.1	1271.9	1272.0	1270.3	1268.7	1267.0	1265.3	1265.1
175°	1270.2	1271.9	1273.6	1275.3	1276.9	1277.1	1275.6	1274.1	1272.7	1271.1	1271.0
177.5°	1271.9	1273.6	1275.3	1277.0	1278.6	1278.8	1277.5	1276.1	1274.8	1273.4	1273.3
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1545.6	1544.1	1536.9	1528.7	1517.9	1510.7	1505.1	1502.0	1492.8	1481.6	1473.8
5°	1641.1	1621.9	1601.3	1576.4	1553.3	1529.6	1514.8	1497.5	1476.4	1452.7	1436.1
7.5°	1743.4	1705.7	1665.1	1623.2	1581.8	1544.6	1511.8	1483.7	1450.0	1416.0	1392.2
10°	1821.8	1766.7	1709.7	1651.3	1598.1	1548.2	1509.7	1471.9	1431.6	1392.4	1363.0
12.5°	1893.0	1820.5	1754.8	1683.1	1615.1	1555.3	1500.0	1455.5	1407.0	1365.3	1331.7
15°	1983.3	1908.9	1829.5	1720.5	1630.2	1554.6	1487.3	1429.0	1370.0	1318.7	1286.1
17.5°	2067.6	1955.7	1848.9	1758.1	1640.7	1546.2	1464.1	1394.4	1329.7	1275.3	1235.1
20°	2102.5	1994.1	1878.2	1762.2	1646.8	1541.2	1445.6	1368.7	1301.5	1239.9	1202.8
22.5°	2123.4	2000.8	1878.7	1754.0	1631.5	1521.7	1427.2	1342.6	1269.7	1211.2	1165.4
25°	2148.0	2001.9	1867.3	1744.3	1619.3	1500.2	1388.0	1298.3	1219.4	1157.3	1108.6
27.5°	2164.1	1992.3	1833.2	1696.5	1569.7	1451.0	1348.3	1253.1	1173.2	1107.4	1055.2
30°	2167.1	1984.5	1807.0	1659.1	1530.2	1421.3	1312.4	1221.4	1136.8	1066.9	1018.2
32.5°	2171.3	1965.6	1771.6	1614.5	1482.5	1374.7	1275.9	1189.0	1102.4	1033.6	983.9
35°	2154.3	1955.1	1718.0	1537.2	1405.2	1300.8	1211.8	1131.6	1046.4	979.7	929.2
37.5°	2081.5	1913.4	1662.4	1450.4	1312.4	1215.6	1143.0	1073.2	995.1	923.2	875.5
40°	2008.2	1872.4	1619.3	1397.6	1253.4	1154.1	1088.8	1031.7	956.1	888.8	837.6
42.5°	1899.1	1816.6	1578.3	1342.2	1186.7	1091.0	1035.9	982.4	916.1	847.7	799.6
45°	1698.8	1709.7	1494.4	1254.0	1094.5	998.3	946.5	909.3	850.4	793.9	744.6
47.5°	1447.6	1549.5	1395.8	1160.1	997.2	907.0	861.6	829.2	789.5	734.1	689.1
50°	1283.5	1429.0	1316.9	1097.1	936.2	846.5	801.6	775.3	740.8	697.2	654.3
52.5°	1132.3	1288.5	1221.5	1026.8	870.1	788.1	744.2	722.6	695.1	654.1	615.3
55°	923.4	1081.7	1066.3	920.8	770.9	697.2	663.9	639.5	620.9	590.2	559.5
57.5°	746.9	897.0	904.9	802.9	683.5	610.7	582.0	563.6	551.5	528.3	499.9
60°	635.7	773.5	800.4	723.5	620.9	556.8	528.6	513.9	504.3	485.8	463.9
62.5°	543.4	660.6	691.1	635.8	560.9	501.0	478.9	464.7	458.2	442.1	422.9
65°	415.9	513.3	542.7	512.0	472.9	424.9	406.9	394.8	389.0	380.0	365.9
67.5°	312.7	383.7	416.0	394.4	380.3	349.8	338.4	331.9	326.8	320.7	308.8
70°	251.2	303.7	337.0	331.3	319.8	303.7	295.4	290.9	285.8	280.7	270.4
72.5°	201.9	238.1	269.4	272.3	262.9	259.7	252.3	250.5	247.4	241.2	235.5
75°	134.0	158.9	180.7	189.1	192.9	196.1	192.9	192.2	191.6	186.5	183.3
77.5°	87.8	101.3	115.0	129.2	135.2	139.6	140.6	142.9	141.2	138.5	137.0
80°	67.3	70.5	80.1	92.3	101.9	105.7	108.3	109.6	108.9	108.3	105.7
82.5°	48.8	51.5	56.0	64.6	72.6	79.1	80.6	80.4	81.8	82.2	80.1
85°	26.3	26.9	28.2	29.5	34.0	41.0	43.0	44.2	45.5	45.5	41.7
87.5°	11.7	10.6	11.1	10.6	11.7	11.8	14.4	16.6	17.5	15.9	16.3
90°	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0	3.0	5.1	7.3
92.5°	20.1	18.1	16.0	15.2	15.8	16.5	17.0	17.6	17.0	16.5	15.8
95°	24.7	22.4	20.1	23.2	31.9	40.5	49.2	57.8	49.2	40.5	31.9
97.5°	60.8	76.0	91.2	100.6	104.5	108.4	112.3	116.1	112.3	108.4	104.5
100°	96.9	129.8	162.6	176.9	172.7	168.5	164.3	160.0	164.3	168.5	172.7
102.5°	134.0	169.9	205.8	222.3	219.2	216.1	213.1	210.1	213.1	216.1	219.2
105°	245.3	264.2	283.2	291.6	289.2	286.9	284.6	282.3	284.6	286.9	289.2
107.5°	374.2	371.3	368.3	365.8	363.9	362.2	360.3	358.4	360.3	362.2	363.9
110°	422.6	420.3	417.9	416.0	414.3	412.5	410.9	409.2	410.9	412.5	414.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	470.3	468.0	465.7	463.7	462.3	460.7	459.2	457.7	459.2	460.7	462.3
115°	539.9	538.0	536.1	534.5	533.3	532.0	530.8	529.5	530.8	532.0	533.3
117.5°	608.5	607.5	606.5	605.3	603.7	602.1	600.5	599.0	600.5	602.1	603.7
120°	652.3	651.7	651.1	649.8	647.9	646.0	644.1	642.2	644.1	646.0	647.9
122.5°	695.2	694.4	693.6	692.4	690.8	689.3	687.7	686.2	687.7	689.3	690.8
125°	756.1	755.2	754.4	753.2	751.5	749.7	748.1	746.4	748.1	749.7	751.5
127.5°	814.9	813.8	812.9	811.5	809.8	808.1	806.4	804.8	806.4	808.1	809.8
130°	850.8	849.9	849.1	847.8	846.2	844.5	842.9	841.1	842.9	844.5	846.2
132.5°	885.3	884.6	883.9	882.7	881.0	879.4	877.7	876.0	877.7	879.4	881.0
135°	937.0	936.2	935.3	934.3	933.0	931.7	930.5	929.2	930.5	931.7	933.0
137.5°	983.1	982.6	982.1	981.1	979.5	977.9	976.3	974.7	976.3	977.9	979.5
140°	1012.3	1011.6	1011.0	1010.1	1008.8	1007.5	1006.2	1005.0	1006.2	1007.5	1008.8
142.5°	1040.3	1039.7	1039.0	1038.1	1036.8	1035.6	1034.3	1033.1	1034.3	1035.6	1036.8
145°	1079.9	1079.5	1079.1	1078.2	1076.7	1075.2	1073.7	1072.3	1073.7	1075.2	1076.7
147.5°	1114.6	1114.2	1113.8	1113.0	1112.1	1111.2	1110.2	1109.2	1110.2	1111.2	1112.1
150°	1135.8	1135.4	1135.0	1134.5	1133.8	1133.2	1132.5	1132.0	1132.5	1133.2	1133.8
152.5°	1154.4	1154.1	1153.8	1153.6	1153.2	1153.0	1152.7	1152.4	1152.7	1153.0	1153.2
155°	1179.8	1179.6	1179.4	1179.5	1179.9	1180.3	1180.8	1181.2	1180.8	1180.3	1179.9
157.5°	1202.8	1203.1	1203.2	1203.4	1203.4	1203.5	1203.5	1203.5	1203.5	1203.5	1203.4
160°	1215.7	1215.9	1216.1	1216.3	1216.6	1216.8	1217.0	1217.2	1217.0	1216.8	1216.6
162.5°	1227.1	1227.3	1227.5	1227.8	1228.4	1229.0	1229.6	1230.0	1229.6	1229.0	1228.4
165°	1242.2	1242.4	1242.7	1243.1	1243.7	1244.3	1245.0	1245.6	1245.0	1244.3	1243.7
167.5°	1253.9	1253.9	1253.9	1254.3	1255.2	1256.1	1256.9	1257.8	1256.9	1256.1	1255.2
170°	1260.8	1260.8	1260.8	1261.2	1262.0	1262.9	1263.7	1264.5	1263.7	1262.9	1262.0
172.5°	1264.9	1264.8	1264.6	1265.0	1266.1	1267.1	1268.1	1269.1	1268.1	1267.1	1266.1
175°	1270.7	1270.6	1270.3	1270.7	1271.8	1272.8	1273.9	1275.0	1273.9	1272.8	1271.8
177.5°	1273.1	1272.9	1272.8	1273.1	1274.0	1274.8	1275.6	1276.5	1275.6	1274.8	1274.0
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1471.3	1464.6	1460.0	1449.8	1443.1	1435.9	1428.7	1433.4	1432.8	1432.3	1432.3
5°	1422.0	1407.2	1393.8	1376.5	1365.5	1352.1	1341.8	1340.5	1343.1	1334.2	1329.0
7.5°	1373.0	1352.8	1333.7	1314.7	1294.5	1278.3	1268.1	1263.4	1256.9	1251.3	1245.6
10°	1338.6	1314.9	1296.3	1272.6	1250.8	1231.6	1219.4	1211.1	1206.6	1202.2	1193.8
12.5°	1303.3	1280.1	1256.4	1229.6	1208.8	1186.5	1177.4	1168.1	1159.4	1154.5	1143.0
15°	1251.5	1221.4	1196.4	1168.2	1145.1	1123.3	1110.5	1091.9	1089.3	1083.0	1071.4
17.5°	1199.5	1166.9	1132.5	1111.5	1085.5	1062.8	1043.3	1037.1	1018.7	1011.8	1001.8
20°	1158.5	1128.5	1102.2	1074.6	1036.8	1015.7	1000.3	992.0	977.2	968.2	961.8
22.5°	1123.2	1092.6	1062.2	1030.0	998.9	975.2	963.9	951.0	942.9	930.3	923.4
25°	1072.7	1039.3	1002.8	968.2	945.8	927.9	910.0	898.4	886.9	881.1	868.3
27.5°	1014.0	979.2	945.0	918.8	891.2	873.5	857.3	847.0	833.2	823.5	816.4
30°	981.7	940.7	911.2	887.5	852.2	835.6	823.5	810.7	800.4	790.1	783.1
32.5°	944.3	906.9	878.9	849.5	822.6	804.3	788.6	777.3	768.6	758.8	751.8
35°	885.6	854.2	825.3	795.9	776.0	757.4	738.8	729.2	720.9	711.9	705.6
37.5°	832.5	803.2	775.8	747.8	723.2	708.1	693.1	685.7	674.5	668.5	661.9
40°	799.7	770.9	741.4	714.5	688.8	677.4	663.9	653.0	642.7	638.2	631.2
42.5°	763.9	735.0	710.1	681.2	660.1	644.5	632.1	620.2	612.5	605.9	601.9
45°	710.6	685.0	660.6	631.9	612.0	598.5	584.4	573.5	566.5	562.0	554.9
47.5°	659.0	633.4	608.6	583.5	564.3	548.9	534.8	527.3	517.9	512.4	507.6
50°	621.6	598.5	572.3	549.2	529.9	514.5	503.0	493.4	485.1	478.0	474.8
52.5°	587.3	562.6	540.0	518.4	498.1	480.7	470.2	460.1	453.8	445.7	442.1
55°	530.6	506.9	487.6	466.5	446.6	431.9	419.1	410.1	403.7	394.8	389.6
57.5°	477.4	456.2	433.2	414.8	394.4	381.9	371.3	359.1	351.3	344.2	339.2
60°	441.5	417.2	397.3	380.0	362.1	346.0	336.4	326.8	318.5	311.4	307.0
62.5°	404.1	382.8	363.9	345.1	328.7	314.8	303.6	295.5	288.2	283.7	279.2
65°	346.7	330.0	310.8	295.4	280.1	269.8	260.8	253.7	248.7	245.4	241.6
67.5°	293.8	277.7	260.9	245.8	235.5	227.7	221.8	215.8	213.3	209.1	206.6
70°	259.5	242.9	228.1	216.6	206.4	200.6	196.7	192.2	189.6	184.6	182.0
72.5°	222.1	210.0	199.4	190.0	181.7	176.5	171.6	166.1	162.0	156.4	153.8
75°	175.0	164.0	155.7	149.3	144.1	137.1	130.1	124.3	122.4	120.5	119.8
77.5°	129.6	122.6	116.6	111.2	104.8	99.7	98.2	96.9	96.5	95.5	95.5
80°	101.9	95.5	91.0	84.5	80.7	80.7	80.7	79.5	80.1	80.1	80.1
82.5°	75.7	69.9	67.4	65.1	64.3	64.8	64.8	65.1	64.7	65.7	65.2
85°	39.1	39.7	41.0	40.4	41.0	41.0	42.3	41.7	42.3	41.0	42.3
87.5°	16.2	18.3	19.3	20.4	21.4	21.4	22.2	22.3	23.0	23.2	23.3
90°	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.4	25.3	26.1	26.7
92.5°	15.2	16.0	18.1	20.1	22.2	24.2	25.6	26.9	28.3	29.7	30.4
95°	23.2	20.1	22.4	24.7	27.1	29.4	30.8	32.3	33.8	35.2	36.0
97.5°	100.6	91.2	76.0	60.8	45.7	30.5	32.2	33.8	35.5	37.3	38.2
100°	176.9	162.6	129.8	96.9	64.1	31.2	32.9	34.7	36.3	38.0	39.0
102.5°	222.3	205.8	169.9	134.0	98.2	62.3	57.1	51.9	46.6	41.4	39.1
105°	291.6	283.2	264.2	245.3	226.4	207.4	170.2	132.9	95.6	58.4	40.0
107.5°	365.8	368.3	371.3	374.2	377.2	380.3	352.9	325.5	298.2	270.9	243.2
110°	416.0	417.9	420.3	422.6	424.9	427.2	420.3	413.3	406.3	399.4	380.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	463.7	465.7	468.0	470.3	472.6	474.9	475.1	475.2	475.3	475.5	472.3
115°	534.5	536.1	538.0	539.9	541.8	543.7	545.8	547.9	550.0	552.1	553.6
117.5°	605.3	606.5	607.5	608.5	609.4	610.4	612.0	613.8	615.5	617.1	618.1
120°	649.8	651.1	651.7	652.3	653.0	653.5	655.3	657.0	658.6	660.3	661.1
122.5°	692.4	693.6	694.4	695.2	695.9	696.8	698.0	699.1	700.3	701.5	702.1
125°	753.2	754.4	755.2	756.1	756.9	757.7	758.2	758.6	759.0	759.5	759.9
127.5°	811.5	812.9	813.8	814.9	815.9	816.8	817.6	818.2	818.9	819.5	819.7
130°	847.8	849.1	849.9	850.8	851.7	852.5	853.4	854.2	855.0	855.9	856.1
132.5°	882.7	883.9	884.6	885.3	885.9	886.6	887.5	888.3	889.2	890.0	890.1
135°	934.3	935.3	936.2	937.0	937.8	938.7	939.3	940.0	940.6	941.3	941.3
137.5°	981.1	982.1	982.6	983.1	983.5	984.0	985.0	986.0	987.0	988.0	988.3
140°	1010.1	1011.0	1011.6	1012.3	1012.9	1013.5	1014.4	1015.2	1016.0	1016.9	1017.1
142.5°	1038.1	1039.0	1039.7	1040.3	1041.0	1041.5	1042.3	1042.9	1043.6	1044.2	1044.3
145°	1078.2	1079.1	1079.5	1079.9	1080.4	1080.8	1081.2	1081.7	1082.1	1082.5	1082.6
147.5°	1113.0	1113.8	1114.2	1114.6	1115.0	1115.4	1115.9	1116.3	1116.7	1117.1	1116.9
150°	1134.5	1135.0	1135.4	1135.8	1136.3	1136.7	1137.1	1137.5	1137.9	1138.3	1138.2
152.5°	1153.6	1153.8	1154.1	1154.4	1154.6	1154.9	1155.6	1156.3	1157.2	1157.9	1157.8
155°	1179.5	1179.4	1179.6	1179.8	1180.1	1180.2	1181.3	1182.3	1183.4	1184.5	1184.3
157.5°	1203.4	1203.2	1203.1	1202.8	1202.6	1202.4	1203.7	1204.9	1206.2	1207.5	1207.3
160°	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1216.6	1217.8	1219.0	1220.3	1220.3
162.5°	1227.8	1227.5	1227.3	1227.1	1226.9	1226.6	1228.1	1229.6	1230.9	1232.4	1232.4
165°	1243.1	1242.7	1242.4	1242.2	1242.0	1241.8	1243.5	1245.2	1246.8	1248.5	1248.6
167.5°	1254.3	1253.9	1253.9	1253.9	1253.9	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7
170°	1261.2	1260.8	1260.8	1260.8	1260.8	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5
172.5°	1265.0	1264.6	1264.8	1264.9	1265.1	1265.3	1267.0	1268.7	1270.3	1272.0	1271.9
175°	1270.7	1270.3	1270.6	1270.7	1271.0	1271.1	1272.7	1274.1	1275.6	1277.1	1276.9
177.5°	1273.1	1272.8	1272.9	1273.1	1273.3	1273.4	1274.8	1276.1	1277.5	1278.8	1278.6
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1426.2	1425.6	1426.2	1424.1	1426.2	1425.6	1426.2	1432.3	1432.3	1432.8	1433.4
5°	1327.1	1326.5	1324.5	1318.7	1324.5	1326.5	1327.1	1329.0	1334.2	1343.1	1340.5
7.5°	1240.6	1239.7	1234.0	1234.2	1234.0	1239.7	1240.6	1245.6	1251.3	1256.9	1263.4
10°	1189.4	1189.9	1182.3	1177.8	1182.3	1189.9	1189.4	1193.8	1202.2	1206.6	1211.1
12.5°	1139.6	1136.7	1130.5	1125.5	1130.5	1136.7	1139.6	1143.0	1154.5	1159.4	1168.1
15°	1074.0	1067.6	1052.2	1053.4	1052.2	1067.6	1074.0	1071.4	1083.0	1089.3	1091.9
17.5°	996.7	992.0	991.7	982.8	991.7	992.0	996.7	1001.8	1011.8	1018.7	1037.1
20°	951.6	948.4	949.7	940.7	949.7	948.4	951.6	961.8	968.2	977.2	992.0
22.5°	916.2	913.0	907.6	904.8	907.6	913.0	916.2	923.4	930.3	942.9	951.0
25°	864.5	859.3	854.2	857.4	854.2	859.3	864.5	868.3	881.1	886.9	898.4
27.5°	812.7	808.9	803.7	803.1	803.7	808.9	812.7	816.4	823.5	833.2	847.0
30°	779.8	776.0	773.5	770.2	773.5	776.0	779.8	783.1	790.1	800.4	810.7
32.5°	746.6	745.8	741.2	740.5	741.2	745.8	746.6	751.8	758.8	768.6	777.3
35°	703.0	699.1	697.8	698.5	697.8	699.1	703.0	705.6	711.9	720.9	729.2
37.5°	661.5	656.4	654.1	651.8	654.1	656.4	661.5	661.9	668.5	674.5	685.7
40°	631.9	626.7	625.4	624.1	625.4	626.7	631.9	631.2	638.2	642.7	653.0
42.5°	598.5	596.5	595.7	593.4	595.7	596.5	598.5	601.9	605.9	612.5	620.2
45°	553.0	552.4	548.5	549.8	548.5	552.4	553.0	554.9	562.0	566.5	573.5
47.5°	505.1	502.2	499.5	501.3	499.5	502.2	505.1	507.6	512.4	517.9	527.3
50°	472.3	471.0	465.2	466.5	465.2	471.0	472.3	474.8	478.0	485.1	493.4
52.5°	439.4	434.6	432.4	431.6	432.4	434.6	439.4	442.1	445.7	453.8	460.1
55°	385.1	379.4	376.7	375.5	376.7	379.4	385.1	389.6	394.8	403.7	410.1
57.5°	331.8	330.3	328.2	329.6	328.2	330.3	331.8	339.2	344.2	351.3	359.1
60°	300.5	300.5	300.5	299.9	300.5	300.5	300.5	307.0	311.4	318.5	326.8
62.5°	276.5	274.9	274.4	275.3	274.4	274.9	276.5	279.2	283.7	288.2	295.5
65°	239.7	239.0	236.4	235.8	236.4	239.0	239.7	241.6	245.4	248.7	253.7
67.5°	205.0	202.6	201.9	201.0	201.9	202.6	205.0	206.6	209.1	213.3	215.8
70°	178.8	177.5	173.7	174.3	173.7	177.5	178.8	182.0	184.6	189.6	192.2
72.5°	150.6	149.3	148.5	147.7	148.5	149.3	150.6	153.8	156.4	162.0	166.1
75°	119.2	118.5	117.9	120.5	117.9	118.5	119.2	119.8	120.5	122.4	124.3
77.5°	95.5	95.5	95.9	94.8	95.9	95.5	95.5	95.5	95.5	96.5	96.9
80°	80.1	80.1	79.5	79.5	79.5	80.1	80.1	80.1	80.1	80.1	79.5
82.5°	64.2	64.7	65.1	64.1	65.1	64.7	64.2	65.2	65.7	64.7	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.0	42.3	41.7
87.5°	24.4	23.5	23.6	24.1	23.6	23.5	24.4	23.3	23.2	23.0	22.3
90°	27.1	27.6	28.0	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.4
92.5°	30.7	31.0	31.2	31.5	31.2	31.0	30.7	30.4	29.7	28.3	26.9
95°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	35.2	33.8	32.3
97.5°	38.4	38.6	38.8	39.1	38.8	38.6	38.4	38.2	37.3	35.5	33.8
100°	39.1	39.4	39.5	39.8	39.5	39.4	39.1	39.0	38.0	36.3	34.7
102.5°	39.4	39.8	40.2	40.5	40.2	39.8	39.4	39.1	41.4	46.6	51.9
105°	40.4	40.8	41.3	41.7	41.3	40.8	40.4	40.0	58.4	95.6	132.9
107.5°	215.2	187.0	159.0	130.9	159.0	187.0	215.2	243.2	270.9	298.2	325.5
110°	350.8	320.7	290.6	260.5	290.6	320.7	350.8	380.9	399.4	406.3	413.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.9	459.6	453.2	446.9	453.2	459.6	465.9	472.3	475.5	475.3	475.2
115°	554.4	555.3	556.1	556.9	556.1	555.3	554.4	553.6	552.1	550.0	547.9
117.5°	618.2	618.4	618.6	618.7	618.6	618.4	618.2	618.1	617.1	615.5	613.8
120°	661.1	661.1	661.1	661.1	661.1	661.1	661.1	661.1	660.3	658.6	657.0
122.5°	702.3	702.5	702.7	702.9	702.7	702.5	702.3	702.1	701.5	700.3	699.1
125°	760.3	760.8	761.2	761.6	761.2	760.8	760.3	759.9	759.5	759.0	758.6
127.5°	819.3	818.9	818.5	818.0	818.5	818.9	819.3	819.7	819.5	818.9	818.2
130°	855.7	855.2	854.8	854.4	854.8	855.2	855.7	856.1	855.9	855.0	854.2
132.5°	889.5	888.9	888.4	887.7	888.4	888.9	889.5	890.1	890.0	889.2	888.3
135°	940.6	940.0	939.3	938.7	939.3	940.0	940.6	941.3	941.3	940.6	940.0
137.5°	987.9	987.5	987.1	986.6	987.1	987.5	987.9	988.3	988.0	987.0	986.0
140°	1016.7	1016.3	1015.9	1015.5	1015.9	1016.3	1016.7	1017.1	1016.9	1016.0	1015.2
142.5°	1043.7	1043.1	1042.5	1042.0	1042.5	1043.1	1043.7	1044.3	1044.2	1043.6	1042.9
145°	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.5	1082.1	1081.7
147.5°	1115.9	1114.9	1113.9	1113.0	1113.9	1114.9	1115.9	1116.9	1117.1	1116.7	1116.3
150°	1137.6	1137.0	1136.4	1135.7	1136.4	1137.0	1137.6	1138.2	1138.3	1137.9	1137.5
152.5°	1156.8	1155.8	1154.9	1153.9	1154.9	1155.8	1156.8	1157.8	1157.9	1157.2	1156.3
155°	1183.1	1181.9	1180.6	1179.3	1180.6	1181.9	1183.1	1184.3	1184.5	1183.4	1182.3
157.5°	1205.7	1204.0	1202.3	1200.7	1202.3	1204.0	1205.7	1207.3	1207.5	1206.2	1204.9
160°	1218.8	1217.3	1215.8	1214.3	1215.8	1217.3	1218.8	1220.3	1220.3	1219.0	1217.8
162.5°	1231.1	1229.8	1228.5	1227.2	1228.5	1229.8	1231.1	1232.4	1232.4	1230.9	1229.6
165°	1247.2	1245.7	1244.2	1242.8	1244.2	1245.7	1247.2	1248.6	1248.5	1246.8	1245.2
167.5°	1259.0	1257.3	1255.6	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7	1259.0	1257.3
170°	1265.8	1264.1	1262.4	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5	1265.8	1264.1
172.5°	1270.1	1268.3	1266.4	1264.5	1266.4	1268.3	1270.1	1271.9	1272.0	1270.3	1268.7
175°	1275.3	1273.6	1271.9	1270.2	1271.9	1273.6	1275.3	1276.9	1277.1	1275.6	1274.1
177.5°	1277.0	1275.3	1273.6	1271.9	1273.6	1275.3	1277.0	1278.6	1278.8	1277.5	1276.1
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1428.7	1435.9	1443.1	1449.8	1460.0	1464.6	1471.3	1473.8	1481.6	1492.8	1502.0
5°	1341.8	1352.1	1365.5	1376.5	1393.8	1407.2	1422.0	1436.1	1452.7	1476.4	1497.5
7.5°	1268.1	1278.3	1294.5	1314.7	1333.7	1352.8	1373.0	1392.2	1416.0	1450.0	1483.7
10°	1219.4	1231.6	1250.8	1272.6	1296.3	1314.9	1338.6	1363.0	1392.4	1431.6	1471.9
12.5°	1177.4	1186.5	1208.8	1229.6	1256.4	1280.1	1303.3	1331.7	1365.3	1407.0	1455.5
15°	1110.5	1123.3	1145.1	1168.2	1196.4	1221.4	1251.5	1286.1	1318.7	1370.0	1429.0
17.5°	1043.3	1062.8	1085.5	1111.5	1132.5	1166.9	1199.5	1235.1	1275.3	1329.7	1394.4
20°	1000.3	1015.7	1036.8	1074.6	1102.2	1128.5	1158.5	1202.8	1239.9	1301.5	1368.7
22.5°	963.9	975.2	998.9	1030.0	1062.2	1092.6	1123.2	1165.4	1211.2	1269.7	1342.6
25°	910.0	927.9	945.8	968.2	1002.8	1039.3	1072.7	1108.6	1157.3	1219.4	1298.3
27.5°	857.3	873.5	891.2	918.8	945.0	979.2	1014.0	1055.2	1107.4	1173.2	1253.1
30°	823.5	835.6	852.2	887.5	911.2	940.7	981.7	1018.2	1066.9	1136.8	1221.4
32.5°	788.6	804.3	822.6	849.5	878.9	906.9	944.3	983.9	1033.6	1102.4	1189.0
35°	738.8	757.4	776.0	795.9	825.3	854.2	885.6	929.2	979.7	1046.4	1131.6
37.5°	693.1	708.1	723.2	747.8	775.8	803.2	832.5	875.5	923.2	995.1	1073.2
40°	663.9	677.4	688.8	714.5	741.4	770.9	799.7	837.6	888.8	956.1	1031.7
42.5°	632.1	644.5	660.1	681.2	710.1	735.0	763.9	799.6	847.7	916.1	982.4
45°	584.4	598.5	612.0	631.9	660.6	685.0	710.6	744.6	793.9	850.4	909.3
47.5°	534.8	548.9	564.3	583.5	608.6	633.4	659.0	689.1	734.1	789.5	829.2
50°	503.0	514.5	529.9	549.2	572.3	598.5	621.6	654.3	697.2	740.8	775.3
52.5°	470.2	480.7	498.1	518.4	540.0	562.6	587.3	615.3	654.1	695.1	722.6
55°	419.1	431.9	446.6	466.5	487.6	506.9	530.6	559.5	590.2	620.9	639.5
57.5°	371.3	381.9	394.4	414.8	433.2	456.2	477.4	499.9	528.3	551.5	563.6
60°	336.4	346.0	362.1	380.0	397.3	417.2	441.5	463.9	485.8	504.3	513.9
62.5°	303.6	314.8	328.7	345.1	363.9	382.8	404.1	422.9	442.1	458.2	464.7
65°	260.8	269.8	280.1	295.4	310.8	330.0	346.7	365.9	380.0	389.0	394.8
67.5°	221.8	227.7	235.5	245.8	260.9	277.7	293.8	308.8	320.7	326.8	331.9
70°	196.7	200.6	206.4	216.6	228.1	242.9	259.5	270.4	280.7	285.8	290.9
72.5°	171.6	176.5	181.7	190.0	199.4	210.0	222.1	235.5	241.2	247.4	250.5
75°	130.1	137.1	144.1	149.3	155.7	164.0	175.0	183.3	186.5	191.6	192.2
77.5°	98.2	99.7	104.8	111.2	116.6	122.6	129.6	137.0	138.5	141.2	142.9
80°	80.7	80.7	80.7	84.5	91.0	95.5	101.9	105.7	108.3	108.9	109.6
82.5°	64.8	64.8	64.3	65.1	67.4	69.9	75.7	80.1	82.2	81.8	80.4
85°	42.3	41.0	41.0	40.4	41.0	39.7	39.1	41.7	45.5	45.5	44.2
87.5°	22.2	21.4	21.4	20.4	19.3	18.3	16.2	16.3	15.9	17.5	16.6
90°	23.6	22.7	20.0	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0
92.5°	25.6	24.2	22.2	20.1	18.1	16.0	15.2	15.8	16.5	17.0	17.6
95°	30.8	29.4	27.1	24.7	22.4	20.1	23.2	31.9	40.5	49.2	57.8
97.5°	32.2	30.5	45.7	60.8	76.0	91.2	100.6	104.5	108.4	112.3	116.1
100°	32.9	31.2	64.1	96.9	129.8	162.6	176.9	172.7	168.5	164.3	160.0
102.5°	57.1	62.3	98.2	134.0	169.9	205.8	222.3	219.2	216.1	213.1	210.1
105°	170.2	207.4	226.4	245.3	264.2	283.2	291.6	289.2	286.9	284.6	282.3
107.5°	352.9	380.3	377.2	374.2	371.3	368.3	365.8	363.9	362.2	360.3	358.4
110°	420.3	427.2	424.9	422.6	420.3	417.9	416.0	414.3	412.5	410.9	409.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	475.1	474.9	472.6	470.3	468.0	465.7	463.7	462.3	460.7	459.2	457.7
115°	545.8	543.7	541.8	539.9	538.0	536.1	534.5	533.3	532.0	530.8	529.5
117.5°	612.0	610.4	609.4	608.5	607.5	606.5	605.3	603.7	602.1	600.5	599.0
120°	655.3	653.5	653.0	652.3	651.7	651.1	649.8	647.9	646.0	644.1	642.2
122.5°	698.0	696.8	695.9	695.2	694.4	693.6	692.4	690.8	689.3	687.7	686.2
125°	758.2	757.7	756.9	756.1	755.2	754.4	753.2	751.5	749.7	748.1	746.4
127.5°	817.6	816.8	815.9	814.9	813.8	812.9	811.5	809.8	808.1	806.4	804.8
130°	853.4	852.5	851.7	850.8	849.9	849.1	847.8	846.2	844.5	842.9	841.1
132.5°	887.5	886.6	885.9	885.3	884.6	883.9	882.7	881.0	879.4	877.7	876.0
135°	939.3	938.7	937.8	937.0	936.2	935.3	934.3	933.0	931.7	930.5	929.2
137.5°	985.0	984.0	983.5	983.1	982.6	982.1	981.1	979.5	977.9	976.3	974.7
140°	1014.4	1013.5	1012.9	1012.3	1011.6	1011.0	1010.1	1008.8	1007.5	1006.2	1005.0
142.5°	1042.3	1041.5	1041.0	1040.3	1039.7	1039.0	1038.1	1036.8	1035.6	1034.3	1033.1
145°	1081.2	1080.8	1080.4	1079.9	1079.5	1079.1	1078.2	1076.7	1075.2	1073.7	1072.3
147.5°	1115.9	1115.4	1115.0	1114.6	1114.2	1113.8	1113.0	1112.1	1111.2	1110.2	1109.2
150°	1137.1	1136.7	1136.3	1135.8	1135.4	1135.0	1134.5	1133.8	1133.2	1132.5	1132.0
152.5°	1155.6	1154.9	1154.6	1154.4	1154.1	1153.8	1153.6	1153.2	1153.0	1152.7	1152.4
155°	1181.3	1180.2	1180.1	1179.8	1179.6	1179.4	1179.5	1179.9	1180.3	1180.8	1181.2
157.5°	1203.7	1202.4	1202.6	1202.8	1203.1	1203.2	1203.4	1203.4	1203.5	1203.5	1203.5
160°	1216.6	1215.3	1215.5	1215.7	1215.9	1216.1	1216.3	1216.6	1216.8	1217.0	1217.2
162.5°	1228.1	1226.6	1226.9	1227.1	1227.3	1227.5	1227.8	1228.4	1229.0	1229.6	1230.0
165°	1243.5	1241.8	1242.0	1242.2	1242.4	1242.7	1243.1	1243.7	1244.3	1245.0	1245.6
167.5°	1255.6	1253.9	1253.9	1253.9	1253.9	1253.9	1254.3	1255.2	1256.1	1256.9	1257.8
170°	1262.4	1260.8	1260.8	1260.8	1260.8	1260.8	1261.2	1262.0	1262.9	1263.7	1264.5
172.5°	1267.0	1265.3	1265.1	1264.9	1264.8	1264.6	1265.0	1266.1	1267.1	1268.1	1269.1
175°	1272.7	1271.1	1271.0	1270.7	1270.6	1270.3	1270.7	1271.8	1272.8	1273.9	1275.0
177.5°	1274.8	1273.4	1273.3	1273.1	1272.9	1272.8	1273.1	1274.0	1274.8	1275.6	1276.5
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1505.1	1510.7	1517.9	1528.7	1536.9	1544.1	1545.6	1547.7	1552.8	1561.5	1568.1
5°	1514.8	1529.6	1553.3	1576.4	1601.3	1621.9	1641.1	1654.6	1667.4	1694.3	1716.0
7.5°	1511.8	1544.6	1581.8	1623.2	1665.1	1705.7	1743.4	1777.0	1810.6	1849.8	1894.6
10°	1509.7	1548.2	1598.1	1651.3	1709.7	1766.7	1821.8	1864.8	1914.7	1959.6	2016.6
12.5°	1500.0	1555.3	1615.1	1683.1	1754.8	1820.5	1893.0	1952.4	2009.5	2074.4	2140.6
15°	1487.3	1554.6	1630.2	1720.5	1829.5	1908.9	1983.3	2086.4	2157.0	2227.4	2322.3
17.5°	1464.1	1546.2	1640.7	1758.1	1848.9	1955.7	2067.6	2149.1	2244.1	2343.4	2429.3
20°	1445.6	1541.2	1646.8	1762.2	1878.2	1994.1	2102.5	2199.8	2297.9	2412.6	2483.1
22.5°	1427.2	1521.7	1631.5	1754.0	1878.7	2000.8	2123.4	2237.8	2348.1	2463.9	2553.8
25°	1388.0	1500.2	1619.3	1744.3	1867.3	2001.9	2148.0	2275.5	2412.0	2531.2	2616.4
27.5°	1348.3	1451.0	1569.7	1696.5	1833.2	1992.3	2164.1	2309.1	2445.8	2531.2	2557.9
30°	1312.4	1421.3	1530.2	1659.1	1807.0	1984.5	2167.1	2333.1	2445.3	2482.4	2454.9
32.5°	1275.9	1374.7	1482.5	1614.5	1771.6	1965.6	2171.3	2318.8	2386.3	2357.9	2245.7
35°	1211.8	1300.8	1405.2	1537.2	1718.0	1955.1	2154.3	2254.3	2237.7	2077.5	1866.0
37.5°	1143.0	1215.6	1312.4	1450.4	1662.4	1913.4	2081.5	2096.3	1952.2	1706.2	1461.9
40°	1088.8	1154.1	1253.4	1397.6	1619.3	1872.4	2008.2	1948.6	1725.0	1451.4	1247.7
42.5°	1035.9	1091.0	1186.7	1342.2	1578.3	1816.6	1899.1	1769.3	1511.2	1252.5	1067.2
45°	946.5	998.3	1094.5	1254.0	1494.4	1709.7	1698.8	1473.2	1215.0	1006.7	852.9
47.5°	861.6	907.0	997.2	1160.1	1395.8	1549.5	1447.6	1207.5	988.5	821.4	711.7
50°	801.6	846.5	936.2	1097.1	1316.9	1429.0	1283.5	1052.2	851.7	713.2	626.1
52.5°	744.2	788.1	870.1	1026.8	1221.5	1288.5	1132.3	917.9	750.6	631.2	556.4
55°	663.9	697.2	770.9	920.8	1066.3	1081.7	923.4	744.0	606.2	522.9	471.7
57.5°	582.0	610.7	683.5	802.9	904.9	897.0	746.9	591.7	499.0	437.0	399.8
60°	528.6	556.8	620.9	723.5	800.4	773.5	635.7	510.7	431.3	385.8	356.3
62.5°	478.9	501.0	560.9	635.8	691.1	660.6	543.4	439.9	376.9	338.6	315.3
65°	406.9	424.9	472.9	512.0	542.7	513.3	415.9	344.1	298.6	271.7	255.7
67.5°	338.4	349.8	380.3	394.4	416.0	383.7	312.7	264.6	238.8	216.1	205.0
70°	295.4	303.7	319.8	331.3	337.0	303.7	251.2	216.0	194.1	178.1	171.1
72.5°	252.3	259.7	262.9	272.3	269.4	238.1	201.9	173.9	158.2	147.4	138.3
75°	192.9	196.1	192.9	189.1	180.7	158.9	134.0	119.8	108.3	103.1	100.0
77.5°	140.6	139.6	135.2	129.2	115.0	101.3	87.8	83.1	78.0	75.3	74.2
80°	108.3	105.7	101.9	92.3	80.1	70.5	67.3	64.1	62.1	58.9	58.3
82.5°	80.6	79.1	72.6	64.6	56.0	51.5	48.8	47.7	45.7	44.1	43.9
85°	43.0	41.0	34.0	29.5	28.2	26.9	26.3	26.3	23.7	23.1	23.1
87.5°	14.4	11.8	11.7	10.6	11.1	10.6	11.7	11.2	11.3	11.9	11.0
90°	3.0	5.1	7.3	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.4
92.5°	17.0	16.5	15.8	15.2	16.0	18.1	20.1	22.2	24.2	25.6	26.9
95°	49.2	40.5	31.9	23.2	20.1	22.4	24.7	27.1	29.4	30.8	32.3
97.5°	112.3	108.4	104.5	100.6	91.2	76.0	60.8	45.7	30.5	32.2	33.8
100°	164.3	168.5	172.7	176.9	162.6	129.8	96.9	64.1	31.2	32.9	34.7
102.5°	213.1	216.1	219.2	222.3	205.8	169.9	134.0	98.2	62.3	57.1	51.9
105°	284.6	286.9	289.2	291.6	283.2	264.2	245.3	226.4	207.4	170.2	132.9
107.5°	360.3	362.2	363.9	365.8	368.3	371.3	374.2	377.2	380.3	352.9	325.5
110°	410.9	412.5	414.3	416.0	417.9	420.3	422.6	424.9	427.2	420.3	413.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	459.2	460.7	462.3	463.7	465.7	468.0	470.3	472.6	474.9	475.1	475.2
115°	530.8	532.0	533.3	534.5	536.1	538.0	539.9	541.8	543.7	545.8	547.9
117.5°	600.5	602.1	603.7	605.3	606.5	607.5	608.5	609.4	610.4	612.0	613.8
120°	644.1	646.0	647.9	649.8	651.1	651.7	652.3	653.0	653.5	655.3	657.0
122.5°	687.7	689.3	690.8	692.4	693.6	694.4	695.2	695.9	696.8	698.0	699.1
125°	748.1	749.7	751.5	753.2	754.4	755.2	756.1	756.9	757.7	758.2	758.6
127.5°	806.4	808.1	809.8	811.5	812.9	813.8	814.9	815.9	816.8	817.6	818.2
130°	842.9	844.5	846.2	847.8	849.1	849.9	850.8	851.7	852.5	853.4	854.2
132.5°	877.7	879.4	881.0	882.7	883.9	884.6	885.3	885.9	886.6	887.5	888.3
135°	930.5	931.7	933.0	934.3	935.3	936.2	937.0	937.8	938.7	939.3	940.0
137.5°	976.3	977.9	979.5	981.1	982.1	982.6	983.1	983.5	984.0	985.0	986.0
140°	1006.2	1007.5	1008.8	1010.1	1011.0	1011.6	1012.3	1012.9	1013.5	1014.4	1015.2
142.5°	1034.3	1035.6	1036.8	1038.1	1039.0	1039.7	1040.3	1041.0	1041.5	1042.3	1042.9
145°	1073.7	1075.2	1076.7	1078.2	1079.1	1079.5	1079.9	1080.4	1080.8	1081.2	1081.7
147.5°	1110.2	1111.2	1112.1	1113.0	1113.8	1114.2	1114.6	1115.0	1115.4	1115.9	1116.3
150°	1132.5	1133.2	1133.8	1134.5	1135.0	1135.4	1135.8	1136.3	1136.7	1137.1	1137.5
152.5°	1152.7	1153.0	1153.2	1153.6	1153.8	1154.1	1154.4	1154.6	1154.9	1155.6	1156.3
155°	1180.8	1180.3	1179.9	1179.5	1179.4	1179.6	1179.8	1180.1	1180.2	1181.3	1182.3
157.5°	1203.5	1203.5	1203.4	1203.4	1203.2	1203.1	1202.8	1202.6	1202.4	1203.7	1204.9
160°	1217.0	1216.8	1216.6	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1216.6	1217.8
162.5°	1229.6	1229.0	1228.4	1227.8	1227.5	1227.3	1227.1	1226.9	1226.6	1228.1	1229.6
165°	1245.0	1244.3	1243.7	1243.1	1242.7	1242.4	1242.2	1242.0	1241.8	1243.5	1245.2
167.5°	1256.9	1256.1	1255.2	1254.3	1253.9	1253.9	1253.9	1253.9	1253.9	1255.6	1257.3
170°	1263.7	1262.9	1262.0	1261.2	1260.8	1260.8	1260.8	1260.8	1260.8	1262.4	1264.1
172.5°	1268.1	1267.1	1266.1	1265.0	1264.6	1264.8	1264.9	1265.1	1265.3	1267.0	1268.7
175°	1273.9	1272.8	1271.8	1270.7	1270.3	1270.6	1270.7	1271.0	1271.1	1272.7	1274.1
177.5°	1275.6	1274.8	1274.0	1273.1	1272.8	1272.9	1273.1	1273.3	1273.4	1274.8	1276.1
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1578.9	1578.9	1580.9	1588.7	1589.7	1596.4	1594.3
5°	1735.3	1747.4	1751.9	1771.2	1782.7	1787.9	1777.6
7.5°	1926.5	1960.9	1977.1	1997.2	2015.1	2020.5	2006.5
10°	2066.0	2101.8	2131.9	2150.5	2167.8	2179.4	2194.1
12.5°	2200.7	2244.8	2273.5	2299.7	2317.5	2332.2	2334.5
15°	2347.2	2413.9	2464.5	2501.7	2520.3	2529.9	2526.0
17.5°	2495.0	2556.8	2592.8	2630.7	2656.5	2657.8	2658.5
20°	2578.5	2638.8	2680.5	2708.7	2737.5	2736.2	2742.6
22.5°	2634.5	2681.8	2713.8	2734.3	2744.1	2739.3	2740.5
25°	2660.6	2674.7	2669.0	2636.3	2628.0	2597.8	2602.9
27.5°	2525.8	2459.1	2390.2	2301.5	2231.6	2175.6	2178.5
30°	2342.8	2224.9	2090.3	1977.5	1876.2	1848.0	1787.9
32.5°	2086.9	1910.1	1752.5	1647.4	1560.5	1536.9	1484.3
35°	1653.3	1481.6	1319.4	1222.0	1183.6	1129.8	1129.1
37.5°	1285.1	1133.8	1048.1	975.0	936.7	904.2	901.0
40°	1081.0	963.1	898.4	845.9	808.0	783.7	778.0
42.5°	938.5	843.2	782.5	750.0	720.9	708.3	699.0
45°	766.4	702.3	660.0	630.6	617.1	607.5	602.3
47.5°	641.1	598.1	569.3	549.7	538.7	528.6	531.3
50°	572.9	537.6	516.5	497.9	489.6	482.5	483.1
52.5°	518.0	486.4	469.3	455.8	445.5	440.5	438.1
55°	439.6	419.7	402.4	392.8	387.0	380.0	378.1
57.5°	375.0	359.6	345.5	334.6	333.2	326.4	327.3
60°	331.9	319.1	307.6	301.8	297.3	291.6	293.5
62.5°	296.5	285.8	275.3	270.5	266.0	261.8	262.7
65°	242.9	232.6	226.2	223.6	221.7	219.8	217.8
67.5°	193.6	187.3	183.3	177.7	173.8	173.2	171.2
70°	162.7	154.4	147.4	140.3	138.4	137.8	138.4
72.5°	130.4	125.2	123.3	119.8	119.4	117.8	119.0
75°	98.1	96.1	94.8	92.3	92.3	92.3	92.3
77.5°	72.3	71.1	70.4	69.9	69.2	68.3	68.2
80°	56.4	55.8	54.5	54.5	53.8	54.5	53.8
82.5°	42.6	42.4	41.2	41.2	40.5	40.1	40.5
85°	21.8	21.1	22.4	21.1	21.8	20.5	21.8
87.5°	11.2	11.3	11.0	11.1	10.7	11.7	10.8
90°	25.3	26.1	26.7	27.1	27.6	28.0	28.5
92.5°	28.3	29.7	30.4	30.7	31.0	31.2	31.5
95°	33.8	35.2	36.0	36.0	36.0	36.0	36.0
97.5°	35.5	37.3	38.2	38.4	38.6	38.8	39.1
100°	36.3	38.0	39.0	39.1	39.4	39.5	39.8
102.5°	46.6	41.4	39.1	39.4	39.8	40.2	40.5
105°	95.6	58.4	40.0	40.4	40.8	41.3	41.7
107.5°	298.2	270.9	243.2	215.2	187.0	159.0	130.9
110°	406.3	399.4	380.9	350.8	320.7	290.6	260.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	475.3	475.5	472.3	465.9	459.6	453.2	446.9
115°	550.0	552.1	553.6	554.4	555.3	556.1	556.9
117.5°	615.5	617.1	618.1	618.2	618.4	618.6	618.7
120°	658.6	660.3	661.1	661.1	661.1	661.1	661.1
122.5°	700.3	701.5	702.1	702.3	702.5	702.7	702.9
125°	759.0	759.5	759.9	760.3	760.8	761.2	761.6
127.5°	818.9	819.5	819.7	819.3	818.9	818.5	818.0
130°	855.0	855.9	856.1	855.7	855.2	854.8	854.4
132.5°	889.2	890.0	890.1	889.5	888.9	888.4	887.7
135°	940.6	941.3	941.3	940.6	940.0	939.3	938.7
137.5°	987.0	988.0	988.3	987.9	987.5	987.1	986.6
140°	1016.0	1016.9	1017.1	1016.7	1016.3	1015.9	1015.5
142.5°	1043.6	1044.2	1044.3	1043.7	1043.1	1042.5	1042.0
145°	1082.1	1082.5	1082.6	1082.6	1082.6	1082.6	1082.6
147.5°	1116.7	1117.1	1116.9	1115.9	1114.9	1113.9	1113.0
150°	1137.9	1138.3	1138.2	1137.6	1137.0	1136.4	1135.7
152.5°	1157.2	1157.9	1157.8	1156.8	1155.8	1154.9	1153.9
155°	1183.4	1184.5	1184.3	1183.1	1181.9	1180.6	1179.3
157.5°	1206.2	1207.5	1207.3	1205.7	1204.0	1202.3	1200.7
160°	1219.0	1220.3	1220.3	1218.8	1217.3	1215.8	1214.3
162.5°	1230.9	1232.4	1232.4	1231.1	1229.8	1228.5	1227.2
165°	1246.8	1248.5	1248.6	1247.2	1245.7	1244.2	1242.8
167.5°	1259.0	1260.7	1260.7	1259.0	1257.3	1255.6	1253.9
170°	1265.8	1267.5	1267.5	1265.8	1264.1	1262.4	1260.8
172.5°	1270.3	1272.0	1271.9	1270.1	1268.3	1266.4	1264.5
175°	1275.6	1277.1	1276.9	1275.3	1273.6	1271.9	1270.2
177.5°	1277.5	1278.8	1278.6	1277.0	1275.3	1273.6	1271.9
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0

(END OF REPORT)