

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: P332081-930

Luminaire Tested: **S123DIP-S1165D1195U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332081-930
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: S123DIP-S1165D1195U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

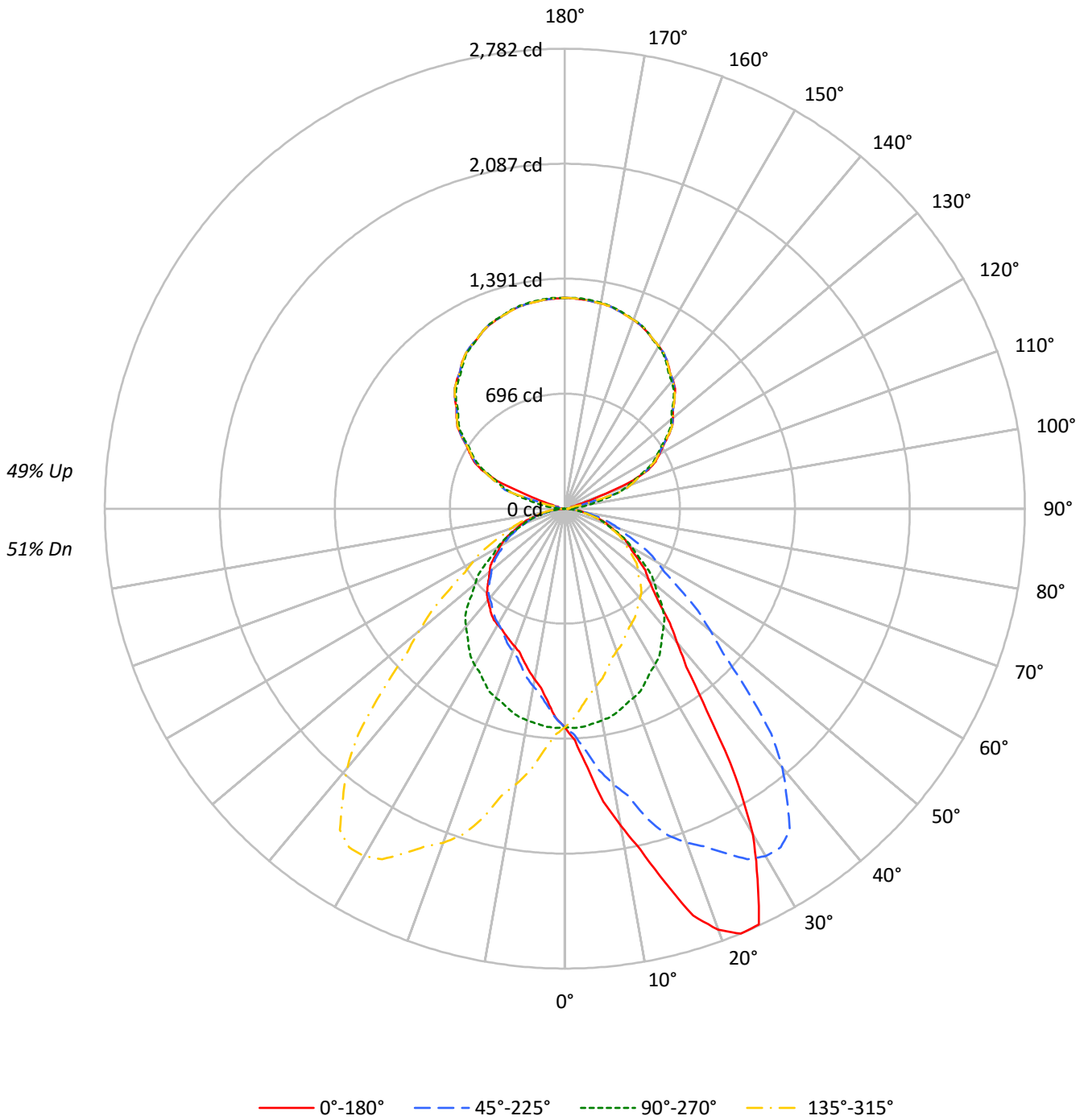
Lumens per Lamp: N/A
Luminaire Lumens: 7883.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	51	49	48	43				
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37				
3	82	73	65	60	75	67	61	56	58	53	49	48	45	42	40	37	35	31				
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27				
5	69	57	49	44	63	53	46	41	46	40	36	39	35	31	32	29	27	24				
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21				
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18				
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	17				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14235	14235	14235	14235
5°	16977	14296	12670	14296
10°	21249	14224	11444	14224
15°	26063	14110	10653	14110
20°	31047	13931	10143	13931
25°	32967	13713	10030	13713
30°	28256	13554	10082	13554
35°	19651	13328	10188	13328
40°	14802	13065	10156	13065
45°	12291	12670	10027	12670
50°	11010	11868	9937	11868
55°	10293	11003	9813	11003
60°	9655	10097	9711	10097
65°	9075	9205	9401	9205
70°	8510	8189	8954	8189
75°	7623	7170	8210	7170
80°	6670	5876	7073	5876
85°	5224	4273	4755	4273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.7
10°-20°	417.7	5.3
20°-30°	701.1	8.9
30°-40°	793.9	10.1
40°-50°	711.9	9.0
50°-60°	574.5	7.3
60°-70°	400.3	5.1
70°-80°	210.4	2.7
80°-90°	55.0	0.7
90°-100°	46.4	0.6
100°-110°	220.9	2.8
110°-120°	530.6	6.7
120°-130°	675.7	8.6
130°-140°	722.0	9.2
140°-150°	675.1	8.6
150°-160°	544.6	6.9
160°-170°	351.5	4.5
170°-180°	121.1	1.5
0°-30°	1249.1	15.8
0°-40°	2043.0	25.9
0°-60°	3329.4	42.2
0°-90°	3995.2	50.7
90°-120°	797.9	10.1
90°-150°	2870.8	36.4
90°-180°	3888.0	49.3
0°-180°	7883.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1571	1323	1173	1323	1571	163
15°	2339	1266	956	1266	2339	675
25°	2776	1155	844	1155	2776	1217
35°	1496	1014	775	1014	1496	972
45°	807	832	659	832	807	639
55°	548	586	523	586	548	492
65°	356	361	369	361	356	355
75°	183	172	197	172	183	196
85°	42	35	38	35	42	51
90°	28	1	28	1	28	15
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1403.5	1402.5	1400.0	1402.0	1397.9	1392.2	1391.7	1386.6	1371.7	1370.7	1366.6
5°	1571.2	1566.0	1565.4	1564.7	1555.8	1543.6	1520.5	1518.6	1487.8	1472.4	1453.9
7.5°	1788.2	1790.9	1781.6	1773.4	1746.0	1727.9	1703.2	1671.5	1633.7	1595.4	1569.9
10°	1944.1	1965.2	1938.9	1921.0	1904.4	1872.9	1836.5	1790.9	1745.4	1692.2	1651.9
12.5°	2111.2	2121.6	2116.3	2099.4	2073.5	2025.7	1961.0	1910.9	1869.0	1780.5	1744.7
15°	2338.8	2377.9	2352.9	2295.2	2296.5	2251.0	2166.4	2073.5	2024.1	1946.6	1840.9
17.5°	2581.2	2586.1	2575.4	2527.4	2495.4	2432.9	2354.8	2265.7	2165.8	2072.0	1959.8
20°	2710.4	2706.5	2684.1	2659.2	2604.1	2555.4	2470.1	2370.8	2242.6	2150.4	2028.0
22.5°	2782.2	2775.8	2765.2	2744.2	2698.4	2646.1	2569.6	2461.1	2339.0	2211.9	2070.5
25°	2775.8	2784.1	2785.4	2779.6	2763.6	2732.2	2672.0	2585.5	2463.8	2300.4	2153.0
27.5°	2524.6	2536.4	2570.6	2601.0	2635.0	2669.5	2664.9	2622.0	2531.9	2390.8	2210.6
30°	2273.4	2247.8	2311.2	2391.4	2445.8	2541.9	2595.7	2598.9	2548.3	2427.2	2251.6
32.5°	1924.8	1953.0	1981.1	2079.7	2198.7	2306.6	2413.8	2500.0	2509.9	2429.3	2275.7
35°	1495.5	1530.8	1582.0	1633.3	1761.5	1871.7	2060.0	2224.1	2354.8	2372.1	2277.9
37.5°	1205.2	1222.5	1255.0	1306.4	1390.2	1520.9	1666.6	1874.0	2063.4	2204.2	2210.4
40°	1053.4	1058.5	1095.0	1134.2	1202.1	1309.7	1441.0	1624.3	1851.1	2047.9	2129.9
42.5°	939.6	950.9	966.4	1004.0	1058.0	1139.1	1261.2	1412.6	1620.5	1846.9	2007.3
45°	807.4	820.2	829.8	854.8	893.2	947.7	1032.9	1171.3	1329.6	1563.4	1779.4
47.5°	720.0	721.0	728.1	747.0	773.1	814.0	874.2	963.2	1108.5	1298.2	1519.9
50°	657.5	667.6	670.3	684.9	705.5	735.6	785.5	861.2	980.4	1147.0	1350.7
52.5°	613.3	616.4	623.6	634.2	652.2	675.6	718.9	778.1	871.7	1013.7	1201.0
55°	548.5	548.5	555.5	563.9	574.1	595.3	624.1	667.6	738.8	849.0	1004.0
57.5°	488.5	491.7	496.7	499.3	508.0	522.0	546.1	579.1	632.2	717.0	840.3
60°	448.5	454.3	453.6	458.8	466.5	477.4	497.9	524.8	572.2	640.1	744.0
62.5°	413.7	413.3	413.2	419.3	427.0	437.4	450.7	474.0	514.3	574.5	662.9
65°	356.3	355.0	359.5	363.3	365.9	373.6	383.8	404.3	431.2	476.1	544.6
67.5°	305.2	301.6	303.9	305.2	309.7	315.6	325.2	337.9	359.3	395.3	447.0
70°	270.4	267.2	266.5	267.8	271.7	276.1	283.2	295.4	315.3	344.1	381.9
72.5°	234.5	232.4	232.2	235.1	236.8	239.8	244.8	255.9	271.7	293.3	328.6
75°	183.3	183.3	183.3	183.9	185.8	188.4	192.2	198.0	210.2	225.5	249.2
77.5°	137.4	137.2	136.5	136.3	139.2	140.3	141.2	146.6	153.4	163.8	181.1
80°	107.6	104.4	105.7	107.6	108.9	109.6	111.5	112.8	118.5	124.3	136.5
82.5°	80.0	77.3	77.5	80.5	80.7	81.4	83.3	85.1	87.2	92.5	99.1
85°	42.3	42.3	43.0	43.0	43.5	43.0	44.8	45.5	45.5	48.7	52.5
87.5°	21.0	20.0	20.4	20.8	20.2	20.6	21.0	21.3	21.6	22.0	21.9
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1363.5	1359.4	1355.4	1348.2	1342.0	1333.3	1330.7	1327.6	1318.4	1310.3	1304.1
5°	1446.8	1431.4	1409.0	1388.5	1371.9	1349.5	1336.6	1323.1	1303.9	1286.6	1272.5
7.5°	1534.0	1503.7	1468.8	1431.2	1396.1	1362.3	1335.0	1310.6	1283.7	1258.2	1238.4
10°	1603.2	1559.6	1510.9	1458.4	1413.5	1369.9	1333.4	1301.4	1266.8	1236.6	1211.7
12.5°	1682.1	1617.6	1550.4	1486.5	1433.5	1373.0	1328.8	1288.1	1248.9	1212.6	1184.5
15°	1775.6	1693.5	1614.0	1526.3	1445.5	1369.9	1317.4	1266.2	1220.7	1183.5	1147.6
17.5°	1860.7	1767.7	1663.0	1556.2	1458.9	1369.2	1295.6	1237.7	1180.8	1135.3	1099.5
20°	1908.9	1803.1	1684.6	1573.7	1466.1	1366.1	1285.4	1216.2	1154.6	1106.6	1066.2
22.5°	1950.4	1826.7	1704.1	1585.5	1465.6	1357.9	1266.4	1195.1	1128.5	1081.5	1038.5
25°	1993.4	1845.4	1722.4	1583.3	1449.4	1337.9	1235.4	1154.6	1088.0	1032.9	988.7
27.5°	2030.3	1844.1	1698.1	1548.6	1424.0	1312.3	1202.8	1116.2	1045.5	985.6	940.8
30°	2054.9	1846.7	1673.0	1525.0	1399.5	1284.1	1177.7	1090.5	1016.3	955.4	913.1
32.5°	2070.3	1845.1	1649.9	1492.2	1360.5	1258.4	1150.6	1060.3	984.0	924.1	883.4
35°	2079.3	1833.9	1610.2	1424.4	1297.5	1198.2	1107.9	1014.3	934.3	878.5	832.3
37.5°	2061.3	1810.1	1564.1	1359.0	1220.2	1122.3	1046.4	966.6	890.0	828.7	788.9
40°	2033.1	1794.8	1528.2	1313.0	1166.9	1072.6	1008.0	929.8	854.1	795.8	758.6
42.5°	1979.3	1763.5	1488.7	1261.7	1111.5	1017.2	957.7	892.3	820.8	766.1	729.0
45°	1848.0	1695.4	1429.5	1184.8	1029.7	932.3	879.8	832.3	767.6	714.4	682.4
47.5°	1665.7	1593.1	1343.9	1103.7	944.4	850.7	796.1	757.9	710.6	667.6	636.9
50°	1539.1	1509.0	1286.0	1048.3	887.5	795.8	743.3	708.7	674.7	631.8	603.6
52.5°	1393.0	1411.6	1218.4	990.8	829.6	739.5	690.0	662.5	631.7	596.4	571.9
55°	1187.3	1254.6	1101.5	894.5	743.3	657.5	610.7	586.3	568.3	542.1	521.0
57.5°	994.7	1080.4	975.1	795.2	658.6	584.5	539.6	513.1	501.6	487.9	471.2
60°	880.4	965.0	884.9	728.6	601.7	531.2	491.5	469.0	457.5	447.9	433.8
62.5°	778.4	864.0	796.7	660.9	545.8	480.5	445.8	424.0	415.0	409.9	397.9
65°	638.2	711.9	667.0	555.5	465.9	408.1	376.7	361.4	353.0	351.1	343.5
67.5°	519.4	575.5	542.8	460.8	390.2	340.4	313.7	300.7	294.2	293.6	287.8
70°	441.5	494.0	469.0	394.7	333.9	294.7	271.7	260.2	256.3	255.7	252.5
72.5°	381.0	417.7	397.8	335.7	288.7	253.2	236.3	224.3	219.9	220.8	218.7
75°	281.9	309.5	298.0	255.0	217.2	194.1	180.0	172.4	168.5	170.5	167.9
77.5°	202.8	220.3	209.9	180.2	156.9	140.2	129.8	125.1	121.6	121.5	120.3
80°	153.1	163.4	157.6	139.7	120.5	106.4	98.0	94.8	92.9	92.3	91.6
82.5°	109.1	117.8	111.0	98.7	85.6	77.1	72.4	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.0	43.0	39.1	36.5	34.6	33.3	34.0	32.7
87.5°	22.4	22.4	20.3	17.8	16.3	14.3	13.9	12.5	11.9	12.3	12.2
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1300.5	1296.9	1291.8	1284.1	1277.9	1268.2	1268.2	1269.7	1269.7	1269.3	1268.2
5°	1261.0	1251.4	1239.9	1226.5	1212.4	1198.2	1195.6	1190.5	1186.7	1184.1	1181.0
7.5°	1219.4	1202.3	1185.5	1166.7	1149.5	1135.3	1125.4	1117.2	1112.0	1106.4	1102.2
10°	1191.2	1170.0	1150.1	1130.3	1108.5	1091.2	1080.4	1072.6	1066.9	1061.8	1059.2
12.5°	1157.9	1133.7	1111.7	1092.9	1069.0	1051.2	1040.9	1037.2	1030.5	1019.7	1014.1
15°	1109.1	1086.7	1060.5	1031.6	1020.1	998.3	986.1	980.4	976.5	968.2	965.6
17.5°	1067.5	1038.1	1008.7	987.2	965.7	948.0	941.3	934.1	929.0	922.2	920.1
20°	1034.2	1008.0	981.0	958.0	935.5	916.3	910.5	905.4	900.3	897.1	894.5
22.5°	1000.4	974.1	951.8	930.3	906.3	893.7	887.5	881.8	878.2	876.0	873.5
25°	952.8	929.8	904.7	885.5	866.3	857.9	854.1	850.9	848.4	845.1	844.5
27.5°	910.3	885.2	864.9	846.9	833.2	826.2	822.5	820.9	821.5	822.6	823.4
30°	878.5	855.4	838.8	823.4	810.6	804.1	803.5	803.5	806.1	806.7	808.0
32.5°	849.3	830.3	813.7	798.7	789.0	784.6	787.1	787.1	789.1	790.8	793.1
35°	806.7	790.0	777.2	764.4	756.1	758.0	759.3	760.6	763.8	767.6	770.2
37.5°	766.1	751.6	738.3	728.3	724.5	727.9	731.0	733.7	737.4	740.4	742.9
40°	736.9	725.9	713.1	704.2	705.5	707.4	710.0	713.1	716.4	718.3	720.9
42.5°	709.7	698.3	688.6	681.1	682.9	685.3	686.9	688.6	692.3	695.8	697.2
45°	668.3	659.3	650.4	645.9	647.2	648.5	649.7	651.7	654.8	657.5	658.0
47.5°	621.8	615.6	609.5	605.1	607.2	606.7	608.4	612.5	613.4	615.0	618.6
50°	592.1	586.3	579.3	578.0	578.0	578.0	578.6	583.8	583.8	586.3	588.9
52.5°	559.3	555.5	551.1	548.8	547.7	547.7	550.4	553.0	554.0	557.6	560.2
55°	510.7	506.9	503.0	501.1	499.8	501.1	506.2	507.4	510.7	512.6	514.5
57.5°	460.1	457.1	454.0	453.0	452.7	454.4	457.2	461.1	461.9	467.7	470.7
60°	426.7	422.2	419.7	419.7	418.4	424.2	422.9	429.3	430.6	434.5	439.0
62.5°	392.4	386.4	385.4	385.4	387.2	388.8	390.6	393.5	396.7	401.6	405.1
65°	337.0	333.9	338.3	337.7	336.4	340.2	340.2	343.5	347.3	351.8	358.8
67.5°	284.6	283.0	283.3	283.3	285.3	287.5	289.3	292.0	296.7	301.4	306.1
70°	249.2	251.2	248.0	250.5	252.5	253.1	254.4	258.2	263.3	266.5	271.7
72.5°	214.9	214.7	215.2	216.2	218.1	219.2	220.5	224.9	230.6	233.3	237.3
75°	165.3	164.7	166.6	166.6	169.8	171.0	172.4	174.3	179.4	183.3	186.5
77.5°	120.7	121.5	121.1	123.3	122.4	122.6	126.6	128.6	129.1	136.6	138.3
80°	91.0	92.3	92.9	93.5	94.2	92.9	97.4	99.3	99.3	103.8	107.0
82.5°	65.4	66.1	67.8	68.4	68.6	69.9	70.2	71.7	73.2	75.1	79.3
85°	32.7	34.6	35.2	34.6	35.2	34.0	35.9	36.5	37.2	37.2	37.2
87.5°	12.1	13.1	13.1	14.2	14.3	15.3	15.5	14.6	14.8	16.5	14.6
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1264.6	1264.1	1267.7	1265.1	1267.7	1264.1	1264.6	1268.2	1269.3	1269.7	1269.7
5°	1177.0	1179.0	1172.6	1172.6	1172.6	1179.0	1177.0	1181.0	1184.1	1186.7	1190.5
7.5°	1099.2	1096.3	1096.6	1093.2	1096.6	1096.3	1099.2	1102.2	1106.4	1112.0	1117.2
10°	1051.5	1047.7	1046.4	1047.0	1046.4	1047.7	1051.5	1059.2	1061.8	1066.9	1072.6
12.5°	1012.0	1011.2	1002.8	1002.9	1002.8	1011.2	1012.0	1014.1	1019.7	1030.5	1037.2
15°	965.6	953.5	952.2	956.0	952.2	953.5	965.6	965.6	968.2	976.5	980.4
17.5°	919.1	912.7	913.1	911.2	913.1	912.7	919.1	920.1	922.2	929.0	934.1
20°	894.5	890.6	890.0	885.5	890.0	890.6	894.5	894.5	897.1	900.3	905.4
22.5°	872.0	870.7	871.1	866.1	871.1	870.7	872.0	873.5	876.0	878.2	881.8
25°	843.9	847.1	844.5	844.5	844.5	847.1	843.9	844.5	845.1	848.4	850.9
27.5°	824.9	824.8	823.5	823.5	823.5	824.8	824.9	823.4	822.6	821.5	820.9
30°	810.6	809.9	811.2	811.2	811.2	809.9	810.6	808.0	806.7	806.1	803.5
32.5°	796.2	797.1	797.4	797.9	797.4	797.1	796.2	793.1	790.8	789.1	787.1
35°	774.0	774.7	776.6	775.3	776.6	774.7	774.0	770.2	767.6	763.8	760.6
37.5°	744.0	747.0	746.3	747.4	746.3	747.0	744.0	742.9	740.4	737.4	733.7
40°	721.5	723.4	722.8	722.8	722.8	723.4	721.5	720.9	718.3	716.4	713.1
42.5°	698.5	699.9	698.1	697.2	698.1	699.9	698.5	697.2	695.8	692.3	688.6
45°	660.6	659.3	661.3	658.7	661.3	659.3	660.6	658.0	657.5	654.8	651.7
47.5°	618.3	619.6	620.1	622.1	620.1	619.6	618.3	618.6	615.0	613.4	612.5
50°	590.1	593.9	593.9	593.4	593.9	593.9	590.1	588.9	586.3	583.8	583.8
52.5°	562.5	564.3	566.8	566.7	566.8	564.3	562.5	560.2	557.6	554.0	553.0
55°	519.7	521.0	522.2	522.9	522.2	521.0	519.7	514.5	512.6	510.7	507.4
57.5°	475.3	474.8	477.8	478.7	477.8	474.8	475.3	470.7	467.7	461.9	461.1
60°	444.0	444.0	449.1	451.1	449.1	444.0	444.0	439.0	434.5	430.6	429.3
62.5°	410.7	412.8	417.9	415.2	417.9	412.8	410.7	405.1	401.6	396.7	393.5
65°	362.0	367.1	366.5	369.1	366.5	367.1	362.0	358.8	351.8	347.3	343.5
67.5°	311.1	314.4	318.9	319.4	318.9	314.4	311.1	306.1	301.4	296.7	292.0
70°	276.8	280.0	282.6	284.5	282.6	280.0	276.8	271.7	266.5	263.3	258.2
72.5°	243.5	245.2	251.3	248.6	251.3	245.2	243.5	237.3	233.3	230.6	224.9
75°	190.9	195.4	199.3	197.4	199.3	195.4	190.9	186.5	183.3	179.4	174.3
77.5°	141.2	145.7	147.5	145.9	147.5	145.7	141.2	138.3	136.6	129.1	128.6
80°	111.5	110.9	114.7	114.1	114.7	110.9	111.5	107.0	103.8	99.3	99.3
82.5°	81.8	81.1	82.9	83.3	82.9	81.1	81.8	79.3	75.1	73.2	71.7
85°	39.7	41.7	39.1	38.5	39.1	41.7	39.7	37.2	37.2	37.2	36.5
87.5°	14.7	14.8	14.3	13.9	14.3	14.8	14.7	14.6	16.5	14.8	14.6
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1268.2	1268.2	1277.9	1284.1	1291.8	1296.9	1300.5	1304.1	1310.3	1318.4	1327.6
5°	1195.6	1198.2	1212.4	1226.5	1239.9	1251.4	1261.0	1272.5	1286.6	1303.9	1323.1
7.5°	1125.4	1135.3	1149.5	1166.7	1185.5	1202.3	1219.4	1238.4	1258.2	1283.7	1310.6
10°	1080.4	1091.2	1108.5	1130.3	1150.1	1170.0	1191.2	1211.7	1236.6	1266.8	1301.4
12.5°	1040.9	1051.2	1069.0	1092.9	1111.7	1133.7	1157.9	1184.5	1212.6	1248.9	1288.1
15°	986.1	998.3	1020.1	1031.6	1060.5	1086.7	1109.1	1147.6	1183.5	1220.7	1266.2
17.5°	941.3	948.0	965.7	987.2	1008.7	1038.1	1067.5	1099.5	1135.3	1180.8	1237.7
20°	910.5	916.3	935.5	958.0	981.0	1008.0	1034.2	1066.2	1106.6	1154.6	1216.2
22.5°	887.5	893.7	906.3	930.3	951.8	974.1	1000.4	1038.5	1081.5	1128.5	1195.1
25°	854.1	857.9	866.3	885.5	904.7	929.8	952.8	988.7	1032.9	1088.0	1154.6
27.5°	822.5	826.2	833.2	846.9	864.9	885.2	910.3	940.8	985.6	1045.5	1116.2
30°	803.5	804.1	810.6	823.4	838.8	855.4	878.5	913.1	955.4	1016.3	1090.5
32.5°	787.1	784.6	789.0	798.7	813.7	830.3	849.3	883.4	924.1	984.0	1060.3
35°	759.3	758.0	756.1	764.4	777.2	790.0	806.7	832.3	878.5	934.3	1014.3
37.5°	731.0	727.9	724.5	728.3	738.3	751.6	766.1	788.9	828.7	890.0	966.6
40°	710.0	707.4	705.5	704.2	713.1	725.9	736.9	758.6	795.8	854.1	929.8
42.5°	686.9	685.3	682.9	681.1	688.6	698.3	709.7	729.0	766.1	820.8	892.3
45°	649.7	648.5	647.2	645.9	650.4	659.3	668.3	682.4	714.4	767.6	832.3
47.5°	608.4	606.7	607.2	605.1	609.5	615.6	621.8	636.9	667.6	710.6	757.9
50°	578.6	578.0	578.0	578.0	579.3	586.3	592.1	603.6	631.8	674.7	708.7
52.5°	550.4	547.7	547.7	548.8	551.1	555.5	559.3	571.9	596.4	631.7	662.5
55°	506.2	501.1	499.8	501.1	503.0	506.9	510.7	521.0	542.1	568.3	586.3
57.5°	457.2	454.4	452.7	453.0	454.0	457.1	460.1	471.2	487.9	501.6	513.1
60°	422.9	424.2	418.4	419.7	419.7	422.2	426.7	433.8	447.9	457.5	469.0
62.5°	390.6	388.8	387.2	385.4	385.4	386.4	392.4	397.9	409.9	415.0	424.0
65°	340.2	340.2	336.4	337.7	338.3	333.9	337.0	343.5	351.1	353.0	361.4
67.5°	289.3	287.5	285.3	283.3	283.3	283.0	284.6	287.8	293.6	294.2	300.7
70°	254.4	253.1	252.5	250.5	248.0	251.2	249.2	252.5	255.7	256.3	260.2
72.5°	220.5	219.2	218.1	216.2	215.2	214.7	214.9	218.7	220.8	219.9	224.3
75°	172.4	171.0	169.8	166.6	166.6	164.7	165.3	167.9	170.5	168.5	172.4
77.5°	126.6	122.6	122.4	123.3	121.1	121.5	120.7	120.3	121.5	121.6	125.1
80°	97.4	92.9	94.2	93.5	92.9	92.3	91.0	91.6	92.3	92.9	94.8
82.5°	70.2	69.9	68.6	68.4	67.8	66.1	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.2	34.6	35.2	34.6	32.7	32.7	34.0	33.3	34.6
87.5°	15.5	15.3	14.3	14.2	13.1	13.1	12.1	12.2	12.3	11.9	12.5
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1330.7	1333.3	1342.0	1348.2	1355.4	1359.4	1363.5	1366.6	1370.7	1371.7	1386.6
5°	1336.6	1349.5	1371.9	1388.5	1409.0	1431.4	1446.8	1453.9	1472.4	1487.8	1518.6
7.5°	1335.0	1362.3	1396.1	1431.2	1468.8	1503.7	1534.0	1569.9	1595.4	1633.7	1671.5
10°	1333.4	1369.9	1413.5	1458.4	1510.9	1559.6	1603.2	1651.9	1692.2	1745.4	1790.9
12.5°	1328.8	1373.0	1433.5	1486.5	1550.4	1617.6	1682.1	1744.7	1780.5	1869.0	1910.9
15°	1317.4	1369.9	1445.5	1526.3	1614.0	1693.5	1775.6	1840.9	1946.6	2024.1	2073.5
17.5°	1295.6	1369.2	1458.9	1556.2	1663.0	1767.7	1860.7	1959.8	2072.0	2165.8	2265.7
20°	1285.4	1366.1	1466.1	1573.7	1684.6	1803.1	1908.9	2028.0	2150.4	2242.6	2370.8
22.5°	1266.4	1357.9	1465.6	1585.5	1704.1	1826.7	1950.4	2070.5	2211.9	2339.0	2461.1
25°	1235.4	1337.9	1449.4	1583.3	1722.4	1845.4	1993.4	2153.0	2300.4	2463.8	2585.5
27.5°	1202.8	1312.3	1424.0	1548.6	1698.1	1844.1	2030.3	2210.6	2390.8	2531.9	2622.0
30°	1177.7	1284.1	1399.5	1525.0	1673.0	1846.7	2054.9	2251.6	2427.2	2548.3	2598.9
32.5°	1150.6	1258.4	1360.5	1492.2	1649.9	1845.1	2070.3	2275.7	2429.3	2509.9	2500.0
35°	1107.9	1198.2	1297.5	1424.4	1610.2	1833.9	2079.3	2277.9	2372.1	2354.8	2224.1
37.5°	1046.4	1122.3	1220.2	1359.0	1564.1	1810.1	2061.3	2210.4	2204.2	2063.4	1874.0
40°	1008.0	1072.6	1166.9	1313.0	1528.2	1794.8	2033.1	2129.9	2047.9	1851.1	1624.3
42.5°	957.7	1017.2	1111.5	1261.7	1488.7	1763.5	1979.3	2007.3	1846.9	1620.5	1412.6
45°	879.8	932.3	1029.7	1184.8	1429.5	1695.4	1848.0	1779.4	1563.4	1329.6	1171.3
47.5°	796.1	850.7	944.4	1103.7	1343.9	1593.1	1665.7	1519.9	1298.2	1108.5	963.2
50°	743.3	795.8	887.5	1048.3	1286.0	1509.0	1539.1	1350.7	1147.0	980.4	861.2
52.5°	690.0	739.5	829.6	990.8	1218.4	1411.6	1393.0	1201.0	1013.7	871.7	778.1
55°	610.7	657.5	743.3	894.5	1101.5	1254.6	1187.3	1004.0	849.0	738.8	667.6
57.5°	539.6	584.5	658.6	795.2	975.1	1080.4	994.7	840.3	717.0	632.2	579.1
60°	491.5	531.2	601.7	728.6	884.9	965.0	880.4	744.0	640.1	572.2	524.8
62.5°	445.8	480.5	545.8	660.9	796.7	864.0	778.4	662.9	574.5	514.3	474.0
65°	376.7	408.1	465.9	555.5	667.0	711.9	638.2	544.6	476.1	431.2	404.3
67.5°	313.7	340.4	390.2	460.8	542.8	575.5	519.4	447.0	395.3	359.3	337.9
70°	271.7	294.7	333.9	394.7	469.0	494.0	441.5	381.9	344.1	315.3	295.4
72.5°	236.3	253.2	288.7	335.7	397.8	417.7	381.0	328.6	293.3	271.7	255.9
75°	180.0	194.1	217.2	255.0	298.0	309.5	281.9	249.2	225.5	210.2	198.0
77.5°	129.8	140.2	156.9	180.2	209.9	220.3	202.8	181.1	163.8	153.4	146.6
80°	98.0	106.4	120.5	139.7	157.6	163.4	153.1	136.5	124.3	118.5	112.8
82.5°	72.4	77.1	85.6	98.7	111.0	117.8	109.1	99.1	92.5	87.2	85.1
85°	36.5	39.1	43.0	48.0	55.8	58.3	55.1	52.5	48.7	45.5	45.5
87.5°	13.9	14.3	16.3	17.8	20.3	22.4	22.4	21.9	22.0	21.6	21.3
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°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1391.7	1392.2	1397.9	1402.0	1400.0	1402.5	1403.5
5°	1520.5	1543.6	1555.8	1564.7	1565.4	1566.0	1571.2
7.5°	1703.2	1727.9	1746.0	1773.4	1781.6	1790.9	1788.2
10°	1836.5	1872.9	1904.4	1921.0	1938.9	1965.2	1944.1
12.5°	1961.0	2025.7	2073.5	2099.4	2116.3	2121.6	2111.2
15°	2166.4	2251.0	2296.5	2295.2	2352.9	2377.9	2338.8
17.5°	2354.8	2432.9	2495.4	2527.4	2575.4	2586.1	2581.2
20°	2470.1	2555.4	2604.1	2659.2	2684.1	2706.5	2710.4
22.5°	2569.6	2646.1	2698.4	2744.2	2765.2	2775.8	2782.2
25°	2672.0	2732.2	2763.6	2779.6	2785.4	2784.1	2775.8
27.5°	2664.9	2669.5	2635.0	2601.0	2570.6	2536.4	2524.6
30°	2595.7	2541.9	2445.8	2391.4	2311.2	2247.8	2273.4
32.5°	2413.8	2306.6	2198.7	2079.7	1981.1	1953.0	1924.8
35°	2060.0	1871.7	1761.5	1633.3	1582.0	1530.8	1495.5
37.5°	1666.6	1520.9	1390.2	1306.4	1255.0	1222.5	1205.2
40°	1441.0	1309.7	1202.1	1134.2	1095.0	1058.5	1053.4
42.5°	1261.2	1139.1	1058.0	1004.0	966.4	950.9	939.6
45°	1032.9	947.7	893.2	854.8	829.8	820.2	807.4
47.5°	874.2	814.0	773.1	747.0	728.1	721.0	720.0
50°	785.5	735.6	705.5	684.9	670.3	667.6	657.5
52.5°	718.9	675.6	652.2	634.2	623.6	616.4	613.3
55°	624.1	595.3	574.1	563.9	555.5	548.5	548.5
57.5°	546.1	522.0	508.0	499.3	496.7	491.7	488.5
60°	497.9	477.4	466.5	458.8	453.6	454.3	448.5
62.5°	450.7	437.4	427.0	419.3	413.2	413.3	413.7
65°	383.8	373.6	365.9	363.3	359.5	355.0	356.3
67.5°	325.2	315.6	309.7	305.2	303.9	301.6	305.2
70°	283.2	276.1	271.7	267.8	266.5	267.2	270.4
72.5°	244.8	239.8	236.8	235.1	232.2	232.4	234.5
75°	192.2	188.4	185.8	183.9	183.3	183.3	183.3
77.5°	141.2	140.3	139.2	136.3	136.5	137.2	137.4
80°	111.5	109.6	108.9	107.6	105.7	104.4	107.6
82.5°	83.3	81.4	80.7	80.5	77.5	77.3	80.0
85°	44.8	43.0	43.5	43.0	43.0	42.3	42.3
87.5°	21.0	20.6	20.2	20.8	20.4	20.0	21.0
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)