

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: P332854-927

Luminaire Tested: **S124DIW-S1195D1340U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332854-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1340U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7902.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

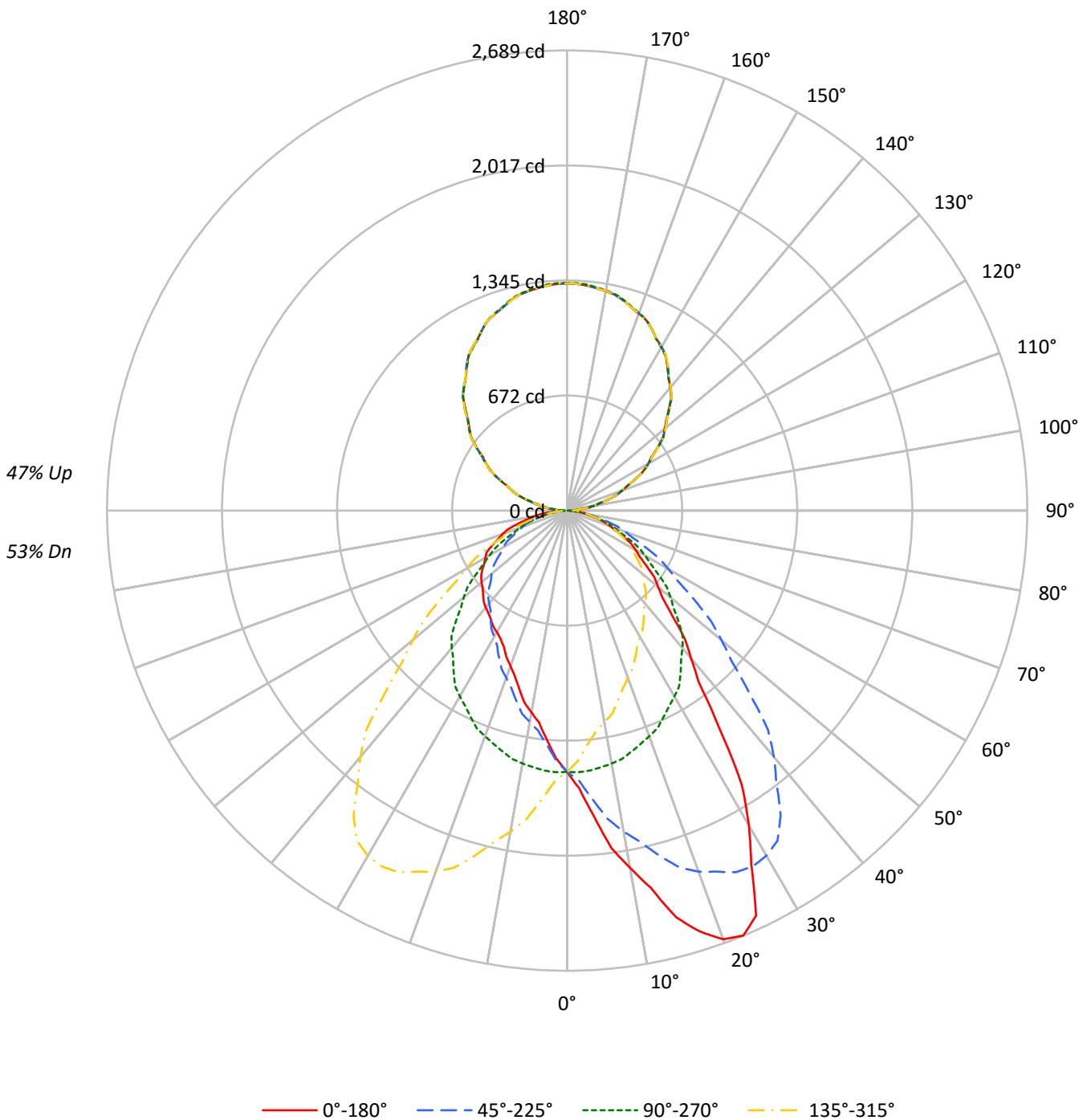
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	62	56	58	54	50	50	46	43	42	39	37	33
4	75	65	57	51	70	60	53	48	52	47	43	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	32	27	48	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12327	12327	12327	12327
5°	14515	12358	10907	12358
10°	17379	12304	9820	12304
15°	20563	12179	9018	12179
20°	22898	12052	8303	12052
25°	23267	11866	7808	11866
30°	19799	11686	7652	11686
35°	15221	11395	7655	11395
40°	11864	11052	7798	11052
45°	9893	10535	7929	10535
50°	8706	9905	8199	9905
55°	7976	9151	8528	9151
60°	7476	8477	8925	8477
65°	6959	7721	9255	7721
70°	6359	6973	9465	6973
75°	5680	6135	9351	6135
80°	4761	5026	9056	5026
85°	3511	3631	8670	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.9
10°-20°	458.5	5.8
20°-30°	727.0	9.2
30°-40°	809.1	10.2
40°-50°	736.5	9.3
50°-60°	601.9	7.6
60°-70°	429.7	5.4
70°-80°	236.6	3.0
80°-90°	68.6	0.9
90°-100°	87.6	1.1
100°-110°	259.5	3.3
110°-120°	440.5	5.6
120°-130°	580.9	7.4
130°-140°	652.4	8.3
140°-150°	641.1	8.1
150°-160°	539.2	6.8
160°-170°	358.7	4.5
170°-180°	125.6	1.6
0°-30°	1334.3	16.9
0°-40°	2143.4	27.1
0°-60°	3481.7	44.1
0°-90°	4216.5	53.4
90°-120°	787.7	10.0
90°-150°	2662.0	33.7
90°-180°	3686.0	46.6
0°-180°	7902.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1527	1527	1527	1527	1527	
5°	1791	1525	1346	1525	1791	182
15°	2460	1457	1079	1457	2460	695
25°	2612	1332	877	1332	2612	1152
35°	1544	1156	777	1156	1544	980
45°	866	923	694	923	866	683
55°	567	650	606	650	567	512
65°	364	404	484	404	364	361
75°	182	197	300	197	182	194
85°	38	39	94	39	38	47
90°	31	3	31	3	31	17
95°	81	62	81	62	81	85
105°	251	239	251	239	251	264
115°	444	448	444	448	444	439
125°	647	652	647	652	647	577
135°	842	841	842	841	842	651
145°	1023	1022	1023	1022	1023	640
155°	1170	1171	1170	1171	1170	539
165°	1272	1275	1272	1275	1272	358
175°	1320	1326	1320	1326	1320	125
180°	1328	1328	1328	1328	1328	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1625.0	1624.4	1619.5	1618.4	1614.9	1610.3	1609.3	1601.2	1585.0	1577.4	1575.4
5°	1791.2	1803.9	1787.4	1784.2	1782.3	1761.5	1750.7	1738.0	1709.0	1691.9	1678.6
7.5°	1989.6	1991.1	1983.9	1978.1	1962.0	1943.8	1916.4	1887.4	1852.7	1816.6	1789.5
10°	2120.1	2125.2	2116.9	2115.7	2083.4	2063.2	2022.7	1988.5	1949.3	1905.7	1865.8
12.5°	2257.7	2250.7	2246.5	2219.4	2213.4	2176.5	2129.5	2094.3	2033.8	1983.6	1930.6
15°	2460.4	2446.5	2437.6	2400.3	2381.9	2330.7	2280.8	2242.2	2163.1	2087.9	2030.9
17.5°	2579.3	2593.2	2572.7	2557.4	2510.0	2474.1	2423.0	2342.0	2280.1	2186.7	2114.8
20°	2665.3	2666.6	2655.2	2639.4	2602.1	2556.5	2500.8	2412.3	2338.3	2245.4	2146.7
22.5°	2688.6	2688.8	2684.0	2669.3	2641.0	2604.1	2547.9	2474.1	2384.4	2283.3	2184.6
25°	2612.1	2609.6	2615.3	2631.8	2621.0	2609.6	2577.4	2522.4	2438.9	2331.9	2225.7
27.5°	2328.3	2345.7	2377.9	2418.4	2457.3	2487.1	2495.5	2484.1	2432.4	2344.5	2233.2
30°	2123.9	2145.4	2169.5	2209.9	2288.4	2333.2	2382.6	2419.9	2399.0	2328.9	2225.1
32.5°	1899.3	1904.6	1940.2	1986.2	2058.1	2144.5	2222.7	2298.4	2323.6	2286.8	2200.3
35°	1544.5	1553.4	1592.0	1637.5	1725.5	1831.1	1948.7	2053.7	2140.3	2175.1	2130.8
37.5°	1260.4	1285.9	1313.0	1362.0	1439.4	1534.5	1656.8	1792.6	1921.8	2008.3	2022.9
40°	1125.8	1141.6	1161.3	1198.6	1264.3	1358.0	1462.9	1618.5	1755.8	1879.8	1920.2
42.5°	1019.5	1028.8	1040.8	1074.6	1124.7	1217.8	1313.7	1450.6	1588.3	1736.5	1804.4
45°	866.5	876.0	896.2	915.8	953.8	1018.3	1107.5	1220.0	1358.6	1501.5	1626.7
47.5°	756.0	762.0	774.0	795.0	827.3	869.8	942.4	1036.4	1164.8	1303.5	1437.0
50°	693.2	698.2	707.7	726.7	751.4	789.3	848.8	936.7	1037.3	1177.0	1308.0
52.5°	643.6	645.6	652.6	665.5	685.1	717.0	765.8	838.5	932.0	1056.6	1187.1
55°	566.7	569.3	575.6	585.0	602.1	622.3	659.7	714.1	795.7	903.8	1017.0
57.5°	503.4	505.3	510.6	514.2	528.2	544.7	573.4	612.3	674.1	765.8	866.9
60°	463.0	461.7	468.0	471.2	480.7	494.6	516.7	554.1	607.8	681.8	774.8
62.5°	423.5	421.8	427.1	431.3	436.7	448.5	466.7	495.9	539.5	606.4	686.7
65°	364.3	361.8	365.0	370.0	375.1	381.4	394.7	420.6	455.4	503.4	564.8
67.5°	304.8	307.5	308.0	310.5	313.5	322.1	331.1	349.5	374.1	412.5	464.5
70°	269.4	270.1	272.6	272.6	274.5	282.1	289.7	300.4	324.5	359.9	402.3
72.5°	234.0	236.7	235.7	237.7	239.1	244.2	249.7	259.9	280.4	306.7	342.5
75°	182.1	184.0	184.0	184.7	186.6	188.5	192.9	200.5	215.1	234.6	259.3
77.5°	132.8	133.1	134.0	136.3	136.3	139.3	142.6	148.6	155.8	169.3	184.3
80°	102.4	103.7	103.1	104.3	104.3	106.9	108.1	115.7	118.9	127.8	139.7
82.5°	75.2	76.4	76.3	78.0	79.1	79.5	81.4	84.4	87.5	95.4	100.3
85°	37.9	39.2	37.9	39.2	41.1	41.7	43.6	44.3	46.8	48.7	53.2
87.5°	17.3	18.7	18.6	19.0	20.0	20.3	20.5	19.7	21.5	21.7	23.4
90°	30.8	30.3	29.9	29.5	29.0	28.0	26.7	25.3	24.0	22.6	20.8
92.5°	45.6	45.3	45.1	44.8	44.5	44.0	43.2	42.3	41.5	40.7	39.4
95°	81.2	81.2	81.2	81.2	81.2	80.8	80.2	79.5	78.7	78.1	76.4
97.5°	127.2	127.2	127.2	127.2	127.2	126.7	126.0	125.2	124.3	123.5	121.6
100°	159.2	159.2	159.2	159.2	159.2	159.0	158.6	158.1	157.6	157.2	155.1
102.5°	195.4	195.2	195.0	194.9	194.6	194.2	193.6	193.0	192.3	191.7	189.8
105°	250.6	250.0	249.3	248.6	248.0	247.2	246.6	245.9	245.2	244.5	243.6
107.5°	304.5	304.6	304.6	304.7	304.7	304.4	303.7	303.1	302.5	301.8	301.7
110°	343.2	342.5	341.7	341.1	340.4	340.3	340.7	341.2	341.7	342.1	342.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	382.6	382.5	382.3	382.1	382.1	382.0	382.1	382.2	382.3	382.4	382.8
115°	443.9	444.0	444.3	444.5	444.7	445.0	445.2	445.4	445.7	445.8	446.3
117.5°	502.2	502.6	503.1	503.5	504.0	504.6	505.4	506.2	506.9	507.7	508.0
120°	546.5	546.1	545.7	545.2	544.7	545.1	546.2	547.4	548.5	549.6	550.3
122.5°	583.5	584.4	585.2	586.0	586.8	587.6	588.4	589.1	589.9	590.7	591.0
125°	647.2	647.7	648.2	648.6	649.0	649.5	650.0	650.5	650.9	651.3	651.6
127.5°	706.2	706.5	706.9	707.3	707.7	708.1	708.5	709.0	709.5	709.9	710.3
130°	744.8	745.8	746.6	747.6	748.5	749.2	749.6	750.1	750.5	751.0	751.0
132.5°	785.9	786.3	786.6	787.0	787.4	787.8	788.3	788.7	789.2	789.6	789.8
135°	842.4	843.1	843.8	844.5	845.2	845.7	846.2	846.7	847.2	847.6	847.6
137.5°	901.8	901.7	901.6	901.4	901.3	901.5	902.1	902.7	903.2	903.9	903.5
140°	938.0	938.2	938.4	938.7	938.9	939.1	939.4	939.6	939.8	940.0	940.0
142.5°	974.1	974.2	974.2	974.3	974.3	974.4	974.5	974.5	974.5	974.5	974.8
145°	1023.3	1024.0	1024.6	1025.3	1026.0	1026.4	1026.7	1026.9	1027.1	1027.4	1027.1
147.5°	1073.0	1073.2	1073.4	1073.6	1073.9	1074.1	1074.3	1074.4	1074.7	1074.8	1075.0
150°	1103.4	1103.6	1103.8	1104.1	1104.3	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
152.5°	1131.3	1131.9	1132.5	1133.1	1133.7	1133.8	1133.2	1132.7	1132.1	1131.6	1131.4
155°	1170.2	1171.1	1172.0	1172.9	1173.9	1173.9	1172.9	1172.0	1171.1	1170.2	1170.4
157.5°	1204.9	1205.7	1206.4	1207.2	1208.0	1208.1	1207.4	1206.7	1206.0	1205.3	1205.4
160°	1224.6	1225.7	1226.9	1228.0	1229.2	1229.4	1228.8	1228.0	1227.3	1226.7	1226.9
162.5°	1245.2	1246.3	1247.4	1248.6	1249.7	1249.7	1248.5	1247.2	1246.0	1244.8	1245.0
165°	1271.8	1272.8	1273.7	1274.6	1275.6	1275.3	1273.9	1272.6	1271.2	1269.8	1270.3
167.5°	1291.0	1292.4	1293.8	1295.2	1296.6	1296.6	1295.3	1294.0	1292.6	1291.2	1291.2
170°	1301.7	1303.3	1304.9	1306.5	1308.1	1308.2	1306.8	1305.4	1304.1	1302.7	1302.5
172.5°	1310.7	1312.3	1313.9	1315.5	1317.1	1317.2	1315.6	1314.0	1312.5	1310.9	1310.9
175°	1320.2	1321.8	1323.3	1324.9	1326.6	1326.6	1324.9	1323.3	1321.8	1320.2	1320.4
177.5°	1325.1	1326.6	1328.0	1329.5	1330.9	1331.0	1329.8	1328.5	1327.2	1326.0	1326.0
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1575.9	1568.8	1563.8	1559.7	1548.6	1542.0	1536.9	1529.9	1521.8	1513.1	1502.5
5°	1665.3	1643.9	1628.0	1604.0	1581.2	1562.3	1542.6	1525.0	1503.4	1480.0	1462.9
7.5°	1759.4	1727.4	1686.3	1650.8	1610.8	1576.0	1544.9	1513.1	1479.9	1447.8	1418.3
10°	1819.0	1777.9	1732.3	1678.6	1628.0	1583.1	1541.3	1500.9	1461.7	1422.4	1388.9
12.5°	1883.3	1832.1	1764.7	1701.9	1645.2	1585.2	1534.8	1485.2	1437.9	1396.7	1357.6
15°	1969.6	1895.5	1817.7	1733.6	1659.0	1588.8	1519.9	1457.2	1404.1	1349.7	1311.8
17.5°	2022.6	1931.0	1842.1	1754.1	1663.8	1575.3	1500.9	1428.7	1362.2	1308.1	1260.3
20°	2057.5	1966.4	1855.7	1767.8	1660.3	1569.2	1483.2	1402.9	1333.3	1275.7	1226.4
22.5°	2087.9	1982.6	1871.9	1756.2	1649.2	1552.5	1458.4	1377.5	1306.5	1245.9	1198.6
25°	2104.3	1983.5	1863.3	1748.2	1626.7	1512.3	1426.9	1332.1	1256.1	1192.2	1141.6
27.5°	2106.1	1976.9	1841.0	1713.0	1587.7	1481.1	1373.2	1288.5	1209.7	1142.2	1093.6
30°	2100.5	1965.8	1819.6	1681.2	1555.3	1439.6	1345.9	1253.6	1173.3	1106.2	1055.6
32.5°	2082.8	1942.5	1792.3	1645.8	1515.3	1402.1	1305.4	1217.7	1139.4	1073.3	1020.2
35°	2031.6	1893.0	1733.0	1580.6	1447.2	1332.7	1245.4	1156.2	1077.8	1015.2	963.9
37.5°	1951.5	1826.2	1663.6	1505.9	1374.8	1259.8	1173.3	1092.7	1022.0	958.4	905.9
40°	1881.7	1771.6	1608.4	1454.7	1313.0	1203.6	1122.7	1048.7	978.4	918.4	868.4
42.5°	1801.2	1705.3	1554.8	1391.9	1255.4	1145.4	1066.5	1000.1	933.9	878.4	828.5
45°	1657.7	1594.5	1452.9	1302.3	1160.0	1056.2	981.0	922.8	867.1	812.8	771.0
47.5°	1492.8	1461.4	1342.1	1199.2	1064.1	961.9	896.6	842.9	794.0	748.0	711.1
50°	1382.0	1366.8	1263.7	1125.8	996.8	900.6	834.9	788.7	746.9	706.5	671.7
52.5°	1272.7	1272.2	1179.2	1053.0	933.6	841.0	775.7	732.5	696.4	663.5	632.2
55°	1105.6	1123.3	1050.6	937.9	831.1	747.6	688.8	650.2	624.9	597.7	574.3
57.5°	952.1	981.5	921.5	822.4	733.2	656.2	605.1	576.1	549.1	532.7	515.6
60°	852.0	879.8	833.0	749.5	665.4	599.6	550.9	525.0	501.5	490.2	478.2
62.5°	762.9	787.7	753.0	675.7	602.6	539.4	498.3	473.3	457.6	445.1	437.2
65°	635.6	656.6	626.8	570.5	507.9	457.3	423.7	404.2	389.0	383.9	375.1
67.5°	513.8	532.8	516.7	468.9	418.7	380.4	354.2	335.3	326.4	321.9	315.6
70°	441.5	460.4	443.4	401.6	363.1	330.8	306.1	295.4	285.9	284.0	275.1
72.5°	380.2	393.2	376.0	343.4	310.5	283.2	264.1	252.9	248.0	244.5	239.7
75°	285.3	296.7	285.3	259.9	236.5	217.6	201.1	196.7	191.0	189.1	185.9
77.5°	201.9	211.8	203.0	187.2	169.8	155.1	146.2	140.5	139.3	136.0	137.5
80°	154.3	160.7	152.4	141.6	127.8	117.6	111.3	108.1	104.3	103.1	105.6
82.5°	110.8	113.6	109.4	102.2	91.8	85.2	81.0	77.3	76.5	76.8	76.8
85°	57.6	57.0	56.3	50.0	46.8	42.4	39.8	39.2	38.6	39.8	41.1
87.5°	23.1	23.1	22.3	19.8	17.8	15.8	14.8	13.8	14.8	15.8	16.8
90°	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1	5.6	8.1	10.6
92.5°	38.1	36.8	35.6	33.5	30.6	27.7	24.9	22.0	24.9	27.7	30.6
95°	74.9	73.3	71.7	69.9	67.8	65.8	63.7	61.6	63.7	65.8	67.8
97.5°	119.8	117.9	116.0	114.2	112.6	111.0	109.3	107.7	109.3	111.0	112.6
100°	153.0	151.0	148.9	147.5	146.6	145.7	144.7	143.9	144.7	145.7	146.6
102.5°	188.0	186.1	184.2	183.1	182.8	182.4	182.0	181.6	182.0	182.4	182.8
105°	242.7	241.8	240.8	240.3	240.0	239.9	239.6	239.4	239.6	239.9	240.0
107.5°	301.6	301.4	301.3	301.1	300.8	300.6	300.2	300.0	300.2	300.6	300.8
110°	342.5	342.8	343.0	342.9	342.5	342.0	341.5	341.1	341.5	342.0	342.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	383.2	383.7	384.0	384.2	384.1	384.0	383.9	383.8	383.9	384.0	384.1
115°	446.8	447.3	447.7	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
117.5°	508.3	508.7	509.0	509.1	508.9	508.7	508.5	508.3	508.5	508.7	508.9
120°	551.0	551.7	552.4	552.2	551.4	550.4	549.5	548.6	549.5	550.4	551.4
122.5°	591.4	591.7	592.0	592.0	591.6	591.3	590.9	590.5	590.9	591.3	591.6
125°	651.8	652.0	652.3	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
127.5°	710.7	711.0	711.4	711.2	710.5	709.9	709.2	708.4	709.2	709.9	710.5
130°	751.0	751.0	751.0	750.7	750.0	749.3	748.6	747.9	748.6	749.3	750.0
132.5°	790.0	790.2	790.4	790.2	789.7	789.2	788.7	788.2	788.7	789.2	789.7
135°	847.6	847.6	847.6	846.9	845.5	844.1	842.8	841.4	842.8	844.1	845.5
137.5°	903.2	902.8	902.5	901.9	901.3	900.6	900.0	899.4	900.0	900.6	901.3
140°	940.0	940.0	940.0	939.8	939.4	938.9	938.4	938.0	938.4	938.9	939.4
142.5°	974.9	975.1	975.3	975.2	974.7	974.2	973.8	973.4	973.8	974.2	974.7
145°	1026.9	1026.7	1026.4	1025.9	1025.0	1024.1	1023.2	1022.2	1023.2	1024.1	1025.0
147.5°	1075.2	1075.4	1075.5	1075.1	1074.0	1072.9	1071.8	1070.7	1071.8	1072.9	1074.0
150°	1104.4	1104.4	1104.4	1104.0	1103.0	1102.2	1101.2	1100.3	1101.2	1102.2	1103.0
152.5°	1131.2	1131.0	1130.8	1130.4	1129.9	1129.3	1128.8	1128.2	1128.8	1129.3	1129.9
155°	1170.6	1170.8	1171.1	1171.2	1171.2	1171.2	1171.2	1171.2	1171.2	1171.2	1171.2
157.5°	1205.4	1205.5	1205.5	1205.7	1206.1	1206.6	1207.0	1207.4	1207.0	1206.6	1206.1
160°	1227.2	1227.3	1227.6	1227.8	1228.0	1228.3	1228.5	1228.8	1228.5	1228.3	1228.0
162.5°	1245.2	1245.5	1245.7	1246.1	1246.7	1247.3	1247.8	1248.5	1247.8	1247.3	1246.7
165°	1270.7	1271.2	1271.7	1272.2	1272.9	1273.6	1274.3	1274.9	1274.3	1273.6	1272.9
167.5°	1291.1	1291.1	1291.0	1291.5	1292.4	1293.4	1294.3	1295.3	1294.3	1293.4	1292.4
170°	1302.3	1302.0	1301.8	1302.3	1303.4	1304.6	1305.7	1306.8	1305.7	1304.6	1303.4
172.5°	1310.8	1310.8	1310.7	1311.2	1312.2	1313.1	1314.1	1315.0	1314.1	1313.1	1312.2
175°	1320.6	1320.9	1321.0	1321.8	1322.9	1324.1	1325.2	1326.4	1325.2	1324.1	1322.9
177.5°	1326.0	1326.0	1326.0	1326.4	1327.3	1328.2	1329.1	1330.0	1329.1	1328.2	1327.3
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1497.5	1492.9	1486.4	1477.3	1469.7	1461.6	1459.5	1456.5	1462.5	1457.5	1456.0
5°	1448.4	1435.1	1418.0	1398.4	1387.0	1370.6	1367.5	1361.1	1354.8	1354.2	1347.8
7.5°	1396.4	1376.9	1354.6	1334.5	1316.1	1298.1	1286.3	1283.8	1274.5	1269.0	1262.7
10°	1363.0	1338.9	1313.0	1294.1	1272.6	1253.6	1240.3	1232.7	1226.4	1219.4	1213.1
12.5°	1323.6	1298.0	1276.6	1256.1	1230.6	1216.2	1194.3	1181.1	1179.9	1180.0	1163.6
15°	1277.6	1252.4	1219.4	1190.3	1176.4	1148.6	1136.5	1121.4	1111.9	1102.4	1094.9
17.5°	1225.1	1193.7	1167.9	1134.6	1108.0	1085.8	1070.1	1061.0	1046.6	1033.2	1023.5
20°	1192.2	1158.7	1131.6	1096.1	1067.0	1039.8	1026.5	1013.9	1003.1	991.7	981.0
22.5°	1158.8	1123.8	1090.5	1056.1	1029.0	1000.4	987.5	970.3	960.1	953.8	943.0
25°	1106.2	1068.3	1030.3	997.4	969.6	944.3	927.2	913.9	902.5	897.5	890.6
27.5°	1049.0	1011.4	974.7	937.3	905.7	887.4	873.7	863.7	857.1	850.4	847.3
30°	1012.6	973.4	934.2	899.4	870.3	852.0	839.3	832.3	827.3	824.1	820.9
32.5°	975.7	937.0	895.7	864.0	837.9	821.6	812.0	805.0	802.5	801.4	800.3
35°	916.5	877.3	839.3	810.9	786.2	779.8	771.7	767.9	766.6	771.0	772.9
37.5°	859.2	822.8	787.8	760.3	744.1	734.8	732.1	732.1	736.7	740.6	745.2
40°	822.2	786.8	753.9	729.9	714.7	709.0	707.7	710.9	716.0	720.4	725.5
42.5°	786.3	751.4	721.5	699.0	688.4	683.2	684.0	687.1	694.2	699.7	707.3
45°	730.6	701.4	672.3	654.0	645.2	646.4	646.4	652.1	659.0	667.3	675.5
47.5°	678.0	648.7	624.8	609.3	604.8	603.6	607.2	614.7	624.6	634.8	646.3
50°	642.6	614.8	593.9	580.0	575.0	576.9	581.9	588.8	600.9	613.5	625.5
52.5°	606.7	581.4	562.1	549.1	545.6	549.0	554.1	565.1	575.6	589.2	603.8
55°	550.9	529.4	514.2	504.7	503.4	505.3	511.0	523.1	538.2	555.3	569.3
57.5°	495.4	477.4	463.5	456.9	457.6	459.3	468.7	483.0	499.2	517.4	535.4
60°	457.9	441.5	430.1	425.0	425.6	429.4	440.8	454.2	474.4	492.1	511.0
62.5°	422.5	408.1	397.2	392.7	391.7	400.1	411.0	424.8	445.0	464.8	485.2
65°	365.6	354.2	345.3	342.8	344.7	351.0	365.0	383.3	400.4	421.2	442.8
67.5°	309.9	300.6	294.5	295.6	297.9	307.3	318.9	334.7	354.1	375.7	397.0
70°	274.5	265.6	260.5	261.2	265.0	276.4	286.5	302.3	323.2	345.3	363.1
72.5°	238.1	232.3	227.7	230.4	234.2	242.0	254.6	270.5	288.8	309.4	328.1
75°	182.8	182.8	180.2	182.1	187.8	195.4	204.9	221.3	239.7	256.2	271.3
77.5°	135.6	134.2	135.9	138.2	141.4	150.4	161.3	173.0	186.9	203.3	215.8
80°	103.7	104.3	107.5	111.3	112.6	119.5	130.9	141.6	152.4	166.4	178.4
82.5°	78.0	78.6	80.2	85.0	86.3	93.7	101.1	111.9	121.6	130.9	140.9
85°	42.4	42.4	45.6	47.5	50.6	55.7	60.0	66.4	75.3	81.6	91.1
87.5°	18.9	19.3	21.6	23.1	24.9	27.8	29.1	34.9	37.2	40.0	44.8
90°	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3	26.7	28.0	29.0
92.5°	33.5	35.6	36.8	38.1	39.4	40.7	41.5	42.3	43.2	44.0	44.5
95°	69.9	71.7	73.3	74.9	76.4	78.1	78.7	79.5	80.2	80.8	81.2
97.5°	114.2	116.0	117.9	119.8	121.6	123.5	124.3	125.2	126.0	126.7	127.2
100°	147.5	148.9	151.0	153.0	155.1	157.2	157.6	158.1	158.6	159.0	159.2
102.5°	183.1	184.2	186.1	188.0	189.8	191.7	192.3	193.0	193.6	194.2	194.6
105°	240.3	240.8	241.8	242.7	243.6	244.5	245.2	245.9	246.6	247.2	248.0
107.5°	301.1	301.3	301.4	301.6	301.7	301.8	302.5	303.1	303.7	304.4	304.7
110°	342.9	343.0	342.8	342.5	342.4	342.1	341.7	341.2	340.7	340.3	340.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	384.2	384.0	383.7	383.2	382.8	382.4	382.3	382.2	382.1	382.0	382.1
115°	447.9	447.7	447.3	446.8	446.3	445.8	445.7	445.4	445.2	445.0	444.7
117.5°	509.1	509.0	508.7	508.3	508.0	507.7	506.9	506.2	505.4	504.6	504.0
120°	552.2	552.4	551.7	551.0	550.3	549.6	548.5	547.4	546.2	545.1	544.7
122.5°	592.0	592.0	591.7	591.4	591.0	590.7	589.9	589.1	588.4	587.6	586.8
125°	652.4	652.3	652.0	651.8	651.6	651.3	650.9	650.5	650.0	649.5	649.0
127.5°	711.2	711.4	711.0	710.7	710.3	709.9	709.5	709.0	708.5	708.1	707.7
130°	750.7	751.0	751.0	751.0	751.0	751.0	750.5	750.1	749.6	749.2	748.5
132.5°	790.2	790.4	790.2	790.0	789.8	789.6	789.2	788.7	788.3	787.8	787.4
135°	846.9	847.6	847.6	847.6	847.6	847.6	847.2	846.7	846.2	845.7	845.2
137.5°	901.9	902.5	902.8	903.2	903.5	903.9	903.2	902.7	902.1	901.5	901.3
140°	939.8	940.0	940.0	940.0	940.0	940.0	939.8	939.6	939.4	939.1	938.9
142.5°	975.2	975.3	975.1	974.9	974.8	974.5	974.5	974.5	974.5	974.4	974.3
145°	1025.9	1026.4	1026.7	1026.9	1027.1	1027.4	1027.1	1026.9	1026.7	1026.4	1026.0
147.5°	1075.1	1075.5	1075.4	1075.2	1075.0	1074.8	1074.7	1074.4	1074.3	1074.1	1073.9
150°	1104.0	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.3
152.5°	1130.4	1130.8	1131.0	1131.2	1131.4	1131.6	1132.1	1132.7	1133.2	1133.8	1133.7
155°	1171.2	1171.1	1170.8	1170.6	1170.4	1170.2	1171.1	1172.0	1172.9	1173.9	1173.9
157.5°	1205.7	1205.5	1205.5	1205.4	1205.4	1205.3	1206.0	1206.7	1207.4	1208.1	1208.0
160°	1227.8	1227.6	1227.3	1227.2	1226.9	1226.7	1227.3	1228.0	1228.8	1229.4	1229.2
162.5°	1246.1	1245.7	1245.5	1245.2	1245.0	1244.8	1246.0	1247.2	1248.5	1249.7	1249.7
165°	1272.2	1271.7	1271.2	1270.7	1270.3	1269.8	1271.2	1272.6	1273.9	1275.3	1275.6
167.5°	1291.5	1291.0	1291.1	1291.1	1291.2	1291.2	1292.6	1294.0	1295.3	1296.6	1296.6
170°	1302.3	1301.8	1302.0	1302.3	1302.5	1302.7	1304.1	1305.4	1306.8	1308.2	1308.1
172.5°	1311.2	1310.7	1310.8	1310.8	1310.9	1310.9	1312.5	1314.0	1315.6	1317.2	1317.1
175°	1321.8	1321.0	1320.9	1320.6	1320.4	1320.2	1321.8	1323.3	1324.9	1326.6	1326.6
177.5°	1326.4	1326.0	1326.0	1326.0	1326.0	1326.0	1327.2	1328.5	1329.8	1331.0	1330.9
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1455.0	1454.0	1450.4	1449.9	1450.4	1454.0	1455.0	1456.0	1457.5	1462.5	1456.5
5°	1344.0	1340.8	1338.9	1345.9	1338.9	1340.8	1344.0	1347.8	1354.2	1354.8	1361.1
7.5°	1260.4	1257.9	1252.4	1250.5	1252.4	1257.9	1260.4	1262.7	1269.0	1274.5	1283.8
10°	1206.8	1204.3	1199.2	1197.9	1199.2	1204.3	1206.8	1213.1	1219.4	1226.4	1232.7
12.5°	1155.2	1150.1	1149.1	1150.4	1149.1	1150.1	1155.2	1163.6	1180.0	1179.9	1181.1
15°	1086.6	1084.1	1077.1	1079.0	1077.1	1084.1	1086.6	1094.9	1102.4	1111.9	1121.4
17.5°	1019.1	1016.1	1007.6	1015.0	1007.6	1016.1	1019.1	1023.5	1033.2	1046.6	1061.0
20°	976.5	971.5	967.1	966.5	967.1	971.5	976.5	981.0	991.7	1003.1	1013.9
22.5°	936.0	931.5	931.1	927.0	931.1	931.5	936.0	943.0	953.8	960.1	970.3
25°	885.5	881.1	879.8	876.6	879.8	881.1	885.5	890.6	897.5	902.5	913.9
27.5°	846.7	844.5	842.2	843.2	842.2	844.5	846.7	847.3	850.4	857.1	863.7
30°	822.8	822.2	820.9	820.9	820.9	822.2	822.8	820.9	824.1	827.3	832.3
32.5°	803.1	803.0	803.7	803.7	803.7	803.0	803.1	800.3	801.4	802.5	805.0
35°	775.5	777.3	778.6	776.7	778.6	777.3	775.5	772.9	771.0	766.6	767.9
37.5°	750.4	752.3	754.1	756.2	754.1	752.3	750.4	745.2	740.6	736.7	732.1
40°	731.2	735.6	736.8	740.0	736.8	735.6	731.2	725.5	720.4	716.0	710.9
42.5°	713.0	717.9	721.1	721.8	721.1	717.9	713.0	707.3	699.7	694.2	687.1
45°	685.0	690.1	694.5	694.5	694.5	690.1	685.0	675.5	667.3	659.0	652.1
47.5°	656.0	663.4	667.8	668.9	667.8	663.4	656.0	646.3	634.8	624.6	614.7
50°	636.3	645.2	649.6	652.8	649.6	645.2	636.3	625.5	613.5	600.9	588.8
52.5°	617.0	625.9	631.8	633.5	631.8	625.9	617.0	603.8	589.2	575.6	565.1
55°	583.8	596.4	603.4	605.9	603.4	596.4	583.8	569.3	555.3	538.2	523.1
57.5°	552.4	564.0	572.1	574.0	572.1	564.0	552.4	535.4	517.4	499.2	483.0
60°	528.1	540.7	550.9	552.8	550.9	540.7	528.1	511.0	492.1	474.4	454.2
62.5°	503.4	516.5	525.6	530.5	525.6	516.5	503.4	485.2	464.8	445.0	424.8
65°	460.4	473.7	482.6	484.5	482.6	473.7	460.4	442.8	421.2	400.4	383.3
67.5°	413.7	426.9	432.8	436.4	432.8	426.9	413.7	397.0	375.7	354.1	334.7
70°	380.7	391.5	397.8	401.0	397.8	391.5	380.7	363.1	345.3	323.2	302.3
72.5°	343.3	354.6	361.9	362.5	361.9	354.6	343.3	328.1	309.4	288.8	270.5
75°	285.9	296.0	299.8	299.8	299.8	296.0	285.9	271.3	256.2	239.7	221.3
77.5°	226.3	231.5	236.3	237.3	236.3	231.5	226.3	215.8	203.3	186.9	173.0
80°	187.8	191.0	194.8	194.8	194.8	191.0	187.8	178.4	166.4	152.4	141.6
82.5°	148.4	151.1	154.9	154.3	154.9	151.1	148.4	140.9	130.9	121.6	111.9
85°	89.8	95.5	94.9	93.6	94.9	95.5	89.8	91.1	81.6	75.3	66.4
87.5°	46.3	47.0	48.6	49.7	48.6	47.0	46.3	44.8	40.0	37.2	34.9
90°	29.5	29.9	30.3	30.8	30.3	29.9	29.5	29.0	28.0	26.7	25.3
92.5°	44.8	45.1	45.3	45.6	45.3	45.1	44.8	44.5	44.0	43.2	42.3
95°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	80.8	80.2	79.5
97.5°	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	126.7	126.0	125.2
100°	159.2	159.2	159.2	159.2	159.2	159.2	159.2	159.2	159.0	158.6	158.1
102.5°	194.9	195.0	195.2	195.4	195.2	195.0	194.9	194.6	194.2	193.6	193.0
105°	248.6	249.3	250.0	250.6	250.0	249.3	248.6	248.0	247.2	246.6	245.9
107.5°	304.7	304.6	304.6	304.5	304.6	304.6	304.7	304.7	304.4	303.7	303.1
110°	341.1	341.7	342.5	343.2	342.5	341.7	341.1	340.4	340.3	340.7	341.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	382.1	382.3	382.5	382.6	382.5	382.3	382.1	382.1	382.0	382.1	382.2
115°	444.5	444.3	444.0	443.9	444.0	444.3	444.5	444.7	445.0	445.2	445.4
117.5°	503.5	503.1	502.6	502.2	502.6	503.1	503.5	504.0	504.6	505.4	506.2
120°	545.2	545.7	546.1	546.5	546.1	545.7	545.2	544.7	545.1	546.2	547.4
122.5°	586.0	585.2	584.4	583.5	584.4	585.2	586.0	586.8	587.6	588.4	589.1
125°	648.6	648.2	647.7	647.2	647.7	648.2	648.6	649.0	649.5	650.0	650.5
127.5°	707.3	706.9	706.5	706.2	706.5	706.9	707.3	707.7	708.1	708.5	709.0
130°	747.6	746.6	745.8	744.8	745.8	746.6	747.6	748.5	749.2	749.6	750.1
132.5°	787.0	786.6	786.3	785.9	786.3	786.6	787.0	787.4	787.8	788.3	788.7
135°	844.5	843.8	843.1	842.4	843.1	843.8	844.5	845.2	845.7	846.2	846.7
137.5°	901.4	901.6	901.7	901.8	901.7	901.6	901.4	901.3	901.5	902.1	902.7
140°	938.7	938.4	938.2	938.0	938.2	938.4	938.7	938.9	939.1	939.4	939.6
142.5°	974.3	974.2	974.2	974.1	974.2	974.2	974.3	974.3	974.4	974.5	974.5
145°	1025.3	1024.6	1024.0	1023.3	1024.0	1024.6	1025.3	1026.0	1026.4	1026.7	1026.9
147.5°	1073.6	1073.4	1073.2	1073.0	1073.2	1073.4	1073.6	1073.9	1074.1	1074.3	1074.4
150°	1104.1	1103.8	1103.6	1103.4	1103.6	1103.8	1104.1	1104.3	1104.4	1104.4	1104.4
152.5°	1133.1	1132.5	1131.9	1131.3	1131.9	1132.5	1133.1	1133.7	1133.8	1133.2	1132.7
155°	1172.9	1172.0	1171.1	1170.2	1171.1	1172.0	1172.9	1173.9	1173.9	1172.9	1172.0
157.5°	1207.2	1206.4	1205.7	1204.9	1205.7	1206.4	1207.2	1208.0	1208.1	1207.4	1206.7
160°	1228.0	1226.9	1225.7	1224.6	1225.7	1226.9	1228.0	1229.2	1229.4	1228.8	1228.0
162.5°	1248.6	1247.4	1246.3	1245.2	1246.3	1247.4	1248.6	1249.7	1249.7	1248.5	1247.2
165°	1274.6	1273.7	1272.8	1271.8	1272.8	1273.7	1274.6	1275.6	1275.3	1273.9	1272.6
167.5°	1295.2	1293.8	1292.4	1291.0	1292.4	1293.8	1295.2	1296.6	1296.6	1295.3	1294.0
170°	1306.5	1304.9	1303.3	1301.7	1303.3	1304.9	1306.5	1308.1	1308.2	1306.8	1305.4
172.5°	1315.5	1313.9	1312.3	1310.7	1312.3	1313.9	1315.5	1317.1	1317.2	1315.6	1314.0
175°	1324.9	1323.3	1321.8	1320.2	1321.8	1323.3	1324.9	1326.6	1326.6	1324.9	1323.3
177.5°	1329.5	1328.0	1326.6	1325.1	1326.6	1328.0	1329.5	1330.9	1331.0	1329.8	1328.5
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1459.5	1461.6	1469.7	1477.3	1486.4	1492.9	1497.5	1502.5	1513.1	1521.8	1529.9
5°	1367.5	1370.6	1387.0	1398.4	1418.0	1435.1	1448.4	1462.9	1480.0	1503.4	1525.0
7.5°	1286.3	1298.1	1316.1	1334.5	1354.6	1376.9	1396.4	1418.3	1447.8	1479.9	1513.1
10°	1240.3	1253.6	1272.6	1294.1	1313.0	1338.9	1363.0	1388.9	1422.4	1461.7	1500.9
12.5°	1194.3	1216.2	1230.6	1256.1	1276.6	1298.0	1323.6	1357.6	1396.7	1437.9	1485.2
15°	1136.5	1148.6	1176.4	1190.3	1219.4	1252.4	1277.6	1311.8	1349.7	1404.1	1457.2
17.5°	1070.1	1085.8	1108.0	1134.6	1167.9	1193.7	1225.1	1260.3	1308.1	1362.2	1428.7
20°	1026.5	1039.8	1067.0	1096.1	1131.6	1158.7	1192.2	1226.4	1275.7	1333.3	1402.9
22.5°	987.5	1000.4	1029.0	1056.1	1090.5	1123.8	1158.8	1198.6	1245.9	1306.5	1377.5
25°	927.2	944.3	969.6	997.4	1030.3	1068.3	1106.2	1141.6	1192.2	1256.1	1332.1
27.5°	873.7	887.4	905.7	937.3	974.7	1011.4	1049.0	1093.6	1142.2	1209.7	1288.5
30°	839.3	852.0	870.3	899.4	934.2	973.4	1012.6	1055.6	1106.2	1173.3	1253.6
32.5°	812.0	821.6	837.9	864.0	895.7	937.0	975.7	1020.2	1073.3	1139.4	1217.7
35°	771.7	779.8	786.2	810.9	839.3	877.3	916.5	963.9	1015.2	1077.8	1156.2
37.5°	732.1	734.8	744.1	760.3	787.8	822.8	859.2	905.9	958.4	1022.0	1092.7
40°	707.7	709.0	714.7	729.9	753.9	786.8	822.2	868.4	918.4	978.4	1048.7
42.5°	684.0	683.2	688.4	699.0	721.5	751.4	786.3	828.5	878.4	933.9	1000.1
45°	646.4	646.4	645.2	654.0	672.3	701.4	730.6	771.0	812.8	867.1	922.8
47.5°	607.2	603.6	604.8	609.3	624.8	648.7	678.0	711.1	748.0	794.0	842.9
50°	581.9	576.9	575.0	580.0	593.9	614.8	642.6	671.7	706.5	746.9	788.7
52.5°	554.1	549.0	545.6	549.1	562.1	581.4	606.7	632.2	663.5	696.4	732.5
55°	511.0	505.3	503.4	504.7	514.2	529.4	550.9	574.3	597.7	624.9	650.2
57.5°	468.7	459.3	457.6	456.9	463.5	477.4	495.4	515.6	532.7	549.1	576.1
60°	440.8	429.4	425.6	425.0	430.1	441.5	457.9	478.2	490.2	501.5	525.0
62.5°	411.0	400.1	391.7	392.7	397.2	408.1	422.5	437.2	445.1	457.6	473.3
65°	365.0	351.0	344.7	342.8	345.3	354.2	365.6	375.1	383.9	389.0	404.2
67.5°	318.9	307.3	297.9	295.6	294.5	300.6	309.9	315.6	321.9	326.4	335.3
70°	286.5	276.4	265.0	261.2	260.5	265.6	274.5	275.1	284.0	285.9	295.4
72.5°	254.6	242.0	234.2	230.4	227.7	232.3	238.1	239.7	244.5	248.0	252.9
75°	204.9	195.4	187.8	182.1	180.2	182.8	182.8	185.9	189.1	191.0	196.7
77.5°	161.3	150.4	141.4	138.2	135.9	134.2	135.6	137.5	136.0	139.3	140.5
80°	130.9	119.5	112.6	111.3	107.5	104.3	103.7	105.6	103.1	104.3	108.1
82.5°	101.1	93.7	86.3	85.0	80.2	78.6	78.0	76.8	76.8	76.5	77.3
85°	60.0	55.7	50.6	47.5	45.6	42.4	42.4	41.1	39.8	38.6	39.2
87.5°	29.1	27.8	24.9	23.1	21.6	19.3	18.9	16.8	15.8	14.8	13.8
90°	24.0	22.6	20.8	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1
92.5°	41.5	40.7	39.4	38.1	36.8	35.6	33.5	30.6	27.7	24.9	22.0
95°	78.7	78.1	76.4	74.9	73.3	71.7	69.9	67.8	65.8	63.7	61.6
97.5°	124.3	123.5	121.6	119.8	117.9	116.0	114.2	112.6	111.0	109.3	107.7
100°	157.6	157.2	155.1	153.0	151.0	148.9	147.5	146.6	145.7	144.7	143.9
102.5°	192.3	191.7	189.8	188.0	186.1	184.2	183.1	182.8	182.4	182.0	181.6
105°	245.2	244.5	243.6	242.7	241.8	240.8	240.3	240.0	239.9	239.6	239.4
107.5°	302.5	301.8	301.7	301.6	301.4	301.3	301.1	300.8	300.6	300.2	300.0
110°	341.7	342.1	342.4	342.5	342.8	343.0	342.9	342.5	342.0	341.5	341.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	382.3	382.4	382.8	383.2	383.7	384.0	384.2	384.1	384.0	383.9	383.8
115°	445.7	445.8	446.3	446.8	447.3	447.7	447.9	447.9	447.9	447.9	447.9
117.5°	506.9	507.7	508.0	508.3	508.7	509.0	509.1	508.9	508.7	508.5	508.3
120°	548.5	549.6	550.3	551.0	551.7	552.4	552.2	551.4	550.4	549.5	548.6
122.5°	589.9	590.7	591.0	591.4	591.7	592.0	592.0	591.6	591.3	590.9	590.5
125°	650.9	651.3	651.6	651.8	652.0	652.3	652.4	652.4	652.4	652.4	652.4
127.5°	709.5	709.9	710.3	710.7	711.0	711.4	711.2	710.5	709.9	709.2	708.4
130°	750.5	751.0	751.0	751.0	751.0	751.0	750.7	750.0	749.3	748.6	747.9
132.5°	789.2	789.6	789.8	790.0	790.2	790.4	790.2	789.7	789.2	788.7	788.2
135°	847.2	847.6	847.6	847.6	847.6	847.6	846.9	845.5	844.1	842.8	841.4
137.5°	903.2	903.9	903.5	903.2	902.8	902.5	901.9	901.3	900.6	900.0	899.4
140°	939.8	940.0	940.0	940.0	940.0	940.0	939.8	939.4	938.9	938.4	938.0
142.5°	974.5	974.5	974.8	974.9	975.1	975.3	975.2	974.7	974.2	973.8	973.4
145°	1027.1	1027.4	1027.1	1026.9	1026.7	1026.4	1025.9	1025.0	1024.1	1023.2	1022.2
147.5°	1074.7	1074.8	1075.0	1075.2	1075.4	1075.5	1075.1	1074.0	1072.9	1071.8	1070.7
150°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.0	1103.0	1102.2	1101.2	1100.3
152.5°	1132.1	1131.6	1131.4	1131.2	1131.0	1130.8	1130.4	1129.9	1129.3	1128.8	1128.2
155°	1171.1	1170.2	1170.4	1170.6	1170.8	1171.1	1171.2	1171.2	1171.2	1171.2	1171.2
157.5°	1206.0	1205.3	1205.4	1205.4	1205.5	1205.5	1205.7	1206.1	1206.6	1207.0	1207.4
160°	1227.3	1226.7	1226.9	1227.2	1227.3	1227.6	1227.8	1228.0	1228.3	1228.5	1228.8
162.5°	1246.0	1244.8	1245.0	1245.2	1245.5	1245.7	1246.1	1246.7	1247.3	1247.8	1248.5
165°	1271.2	1269.8	1270.3	1270.7	1271.2	1271.7	1272.2	1272.9	1273.6	1274.3	1274.9
167.5°	1292.6	1291.2	1291.2	1291.1	1291.1	1291.0	1291.5	1292.4	1293.4	1294.3	1295.3
170°	1304.1	1302.7	1302.5	1302.3	1302.0	1301.8	1302.3	1303.4	1304.6	1305.7	1306.8
172.5°	1312.5	1310.9	1310.9	1310.8	1310.8	1310.7	1311.2	1312.2	1313.1	1314.1	1315.0
175°	1321.8	1320.2	1320.4	1320.6	1320.9	1321.0	1321.8	1322.9	1324.1	1325.2	1326.4
177.5°	1327.2	1326.0	1326.0	1326.0	1326.0	1326.0	1326.4	1327.3	1328.2	1329.1	1330.0
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1536.9	1542.0	1548.6	1559.7	1563.8	1568.8	1575.9	1575.4	1577.4	1585.0	1601.2
5°	1542.6	1562.3	1581.2	1604.0	1628.0	1643.9	1665.3	1678.6	1691.9	1709.0	1738.0
7.5°	1544.9	1576.0	1610.8	1650.8	1686.3	1727.4	1759.4	1789.5	1816.6	1852.7	1887.4
10°	1541.3	1583.1	1628.0	1678.6	1732.3	1777.9	1819.0	1865.8	1905.7	1949.3	1988.5
12.5°	1534.8	1585.2	1645.2	1701.9	1764.7	1832.1	1883.3	1930.6	1983.6	2033.8	2094.3
15°	1519.9	1588.8	1659.0	1733.6	1817.7	1895.5	1969.6	2030.9	2087.9	2163.1	2242.2
17.5°	1500.9	1575.3	1663.8	1754.1	1842.1	1931.0	2022.6	2114.8	2186.7	2280.1	2342.0
20°	1483.2	1569.2	1660.3	1767.8	1855.7	1966.4	2057.5	2146.7	2245.4	2338.3	2412.3
22.5°	1458.4	1552.5	1649.2	1756.2	1871.9	1982.6	2087.9	2184.6	2283.3	2384.4	2474.1
25°	1426.9	1512.3	1626.7	1748.2	1863.3	1983.5	2104.3	2225.7	2331.9	2438.9	2522.4
27.5°	1373.2	1481.1	1587.7	1713.0	1841.0	1976.9	2106.1	2233.2	2344.5	2432.4	2484.1
30°	1345.9	1439.6	1555.3	1681.2	1819.6	1965.8	2100.5	2225.1	2328.9	2399.0	2419.9
32.5°	1305.4	1402.1	1515.3	1645.8	1792.3	1942.5	2082.8	2200.3	2286.8	2323.6	2298.4
35°	1245.4	1332.7	1447.2	1580.6	1733.0	1893.0	2031.6	2130.8	2175.1	2140.3	2053.7
37.5°	1173.3	1259.8	1374.8	1505.9	1663.6	1826.2	1951.5	2022.9	2008.3	1921.8	1792.6
40°	1122.7	1203.6	1313.0	1454.7	1608.4	1771.6	1881.7	1920.2	1879.8	1755.8	1618.5
42.5°	1066.5	1145.4	1255.4	1391.9	1554.8	1705.3	1801.2	1804.4	1736.5	1588.3	1450.6
45°	981.0	1056.2	1160.0	1302.3	1452.9	1594.5	1657.7	1626.7	1501.5	1358.6	1220.0
47.5°	896.6	961.9	1064.1	1199.2	1342.1	1461.4	1492.8	1437.0	1303.5	1164.8	1036.4
50°	834.9	900.6	996.8	1125.8	1263.7	1366.8	1382.0	1308.0	1177.0	1037.3	936.7
52.5°	775.7	841.0	933.6	1053.0	1179.2	1272.2	1272.7	1187.1	1056.6	932.0	838.5
55°	688.8	747.6	831.1	937.9	1050.6	1123.3	1105.6	1017.0	903.8	795.7	714.1
57.5°	605.1	656.2	733.2	822.4	921.5	981.5	952.1	866.9	765.8	674.1	612.3
60°	550.9	599.6	665.4	749.5	833.0	879.8	852.0	774.8	681.8	607.8	554.1
62.5°	498.3	539.4	602.6	675.7	753.0	787.7	762.9	686.7	606.4	539.5	495.9
65°	423.7	457.3	507.9	570.5	626.8	656.6	635.6	564.8	503.4	455.4	420.6
67.5°	354.2	380.4	418.7	468.9	516.7	532.8	513.8	464.5	412.5	374.1	349.5
70°	306.1	330.8	363.1	401.6	443.4	460.4	441.5	402.3	359.9	324.5	300.4
72.5°	264.1	283.2	310.5	343.4	376.0	393.2	380.2	342.5	306.7	280.4	259.9
75°	201.1	217.6	236.5	259.9	285.3	296.7	285.3	259.3	234.6	215.1	200.5
77.5°	146.2	155.1	169.8	187.2	203.0	211.8	201.9	184.3	169.3	155.8	148.6
80°	111.3	117.6	127.8	141.6	152.4	160.7	154.3	139.7	127.8	118.9	115.7
82.5°	81.0	85.2	91.8	102.2	109.4	113.6	110.8	100.3	95.4	87.5	84.4
85°	39.8	42.4	46.8	50.0	56.3	57.0	57.6	53.2	48.7	46.8	44.3
87.5°	14.8	15.8	17.8	19.8	22.3	23.1	23.1	23.4	21.7	21.5	19.7
90°	5.6	8.1	10.6	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3
92.5°	24.9	27.7	30.6	33.5	35.6	36.8	38.1	39.4	40.7	41.5	42.3
95°	63.7	65.8	67.8	69.9	71.7	73.3	74.9	76.4	78.1	78.7	79.5
97.5°	109.3	111.0	112.6	114.2	116.0	117.9	119.8	121.6	123.5	124.3	125.2
100°	144.7	145.7	146.6	147.5	148.9	151.0	153.0	155.1	157.2	157.6	158.1
102.5°	182.0	182.4	182.8	183.1	184.2	186.1	188.0	189.8	191.7	192.3	193.0
105°	239.6	239.9	240.0	240.3	240.8	241.8	242.7	243.6	244.5	245.2	245.9
107.5°	300.2	300.6	300.8	301.1	301.3	301.4	301.6	301.7	301.8	302.5	303.1
110°	341.5	342.0	342.5	342.9	343.0	342.8	342.5	342.4	342.1	341.7	341.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	383.9	384.0	384.1	384.2	384.0	383.7	383.2	382.8	382.4	382.3	382.2
115°	447.9	447.9	447.9	447.9	447.7	447.3	446.8	446.3	445.8	445.7	445.4
117.5°	508.5	508.7	508.9	509.1	509.0	508.7	508.3	508.0	507.7	506.9	506.2
120°	549.5	550.4	551.4	552.2	552.4	551.7	551.0	550.3	549.6	548.5	547.4
122.5°	590.9	591.3	591.6	592.0	592.0	591.7	591.4	591.0	590.7	589.9	589.1
125°	652.4	652.4	652.4	652.4	652.3	652.0	651.8	651.6	651.3	650.9	650.5
127.5°	709.2	709.9	710.5	711.2	711.4	711.0	710.7	710.3	709.9	709.5	709.0
130°	748.6	749.3	750.0	750.7	751.0	751.0	751.0	751.0	751.0	750.5	750.1
132.5°	788.7	789.2	789.7	790.2	790.4	790.2	790.0	789.8	789.6	789.2	788.7
135°	842.8	844.1	845.5	846.9	847.6	847.6	847.6	847.6	847.6	847.2	846.7
137.5°	900.0	900.6	901.3	901.9	902.5	902.8	903.2	903.5	903.9	903.2	902.7
140°	938.4	938.9	939.4	939.8	940.0	940.0	940.0	940.0	940.0	939.8	939.6
142.5°	973.8	974.2	974.7	975.2	975.3	975.1	974.9	974.8	974.5	974.5	974.5
145°	1023.2	1024.1	1025.0	1025.9	1026.4	1026.7	1026.9	1027.1	1027.4	1027.1	1026.9
147.5°	1071.8	1072.9	1074.0	1075.1	1075.5	1075.4	1075.2	1075.0	1074.8	1074.7	1074.4
150°	1101.2	1102.2	1103.0	1104.0	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
152.5°	1128.8	1129.3	1129.9	1130.4	1130.8	1131.0	1131.2	1131.4	1131.6	1132.1	1132.7
155°	1171.2	1171.2	1171.2	1171.2	1171.1	1170.8	1170.6	1170.4	1170.2	1171.1	1172.0
157.5°	1207.0	1206.6	1206.1	1205.7	1205.5	1205.5	1205.4	1205.4	1205.3	1206.0	1206.7
160°	1228.5	1228.3	1228.0	1227.8	1227.6	1227.3	1227.2	1226.9	1226.7	1227.3	1228.0
162.5°	1247.8	1247.3	1246.7	1246.1	1245.7	1245.5	1245.2	1245.0	1244.8	1246.0	1247.2
165°	1274.3	1273.6	1272.9	1272.2	1271.7	1271.2	1270.7	1270.3	1269.8	1271.2	1272.6
167.5°	1294.3	1293.4	1292.4	1291.5	1291.0	1291.1	1291.1	1291.2	1291.2	1292.6	1294.0
170°	1305.7	1304.6	1303.4	1302.3	1301.8	1302.0	1302.3	1302.5	1302.7	1304.1	1305.4
172.5°	1314.1	1313.1	1312.2	1311.2	1310.7	1310.8	1310.8	1310.9	1310.9	1312.5	1314.0
175°	1325.2	1324.1	1322.9	1321.8	1321.0	1320.9	1320.6	1320.4	1320.2	1321.8	1323.3
177.5°	1329.1	1328.2	1327.3	1326.4	1326.0	1326.0	1326.0	1326.0	1326.0	1327.2	1328.5
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1609.3	1610.3	1614.9	1618.4	1619.5	1624.4	1625.0
5°	1750.7	1761.5	1782.3	1784.2	1787.4	1803.9	1791.2
7.5°	1916.4	1943.8	1962.0	1978.1	1983.9	1991.1	1989.6
10°	2022.7	2063.2	2083.4	2115.7	2116.9	2125.2	2120.1
12.5°	2129.5	2176.5	2213.4	2219.4	2246.5	2250.7	2257.7
15°	2280.8	2330.7	2381.9	2400.3	2437.6	2446.5	2460.4
17.5°	2423.0	2474.1	2510.0	2557.4	2572.7	2593.2	2579.3
20°	2500.8	2556.5	2602.1	2639.4	2655.2	2666.6	2665.3
22.5°	2547.9	2604.1	2641.0	2669.3	2684.0	2688.8	2688.6
25°	2577.4	2609.6	2621.0	2631.8	2615.3	2609.6	2612.1
27.5°	2495.5	2487.1	2457.3	2418.4	2377.9	2345.7	2328.3
30°	2382.6	2333.2	2288.4	2209.9	2169.5	2145.4	2123.9
32.5°	2222.7	2144.5	2058.1	1986.2	1940.2	1904.6	1899.3
35°	1948.7	1831.1	1725.5	1637.5	1592.0	1553.4	1544.5
37.5°	1656.8	1534.5	1439.4	1362.0	1313.0	1285.9	1260.4
40°	1462.9	1358.0	1264.3	1198.6	1161.3	1141.6	1125.8
42.5°	1313.7	1217.8	1124.7	1074.6	1040.8	1028.8	1019.5
45°	1107.5	1018.3	953.8	915.8	896.2	876.0	866.5
47.5°	942.4	869.8	827.3	795.0	774.0	762.0	756.0
50°	848.8	789.3	751.4	726.7	707.7	698.2	693.2
52.5°	765.8	717.0	685.1	665.5	652.6	645.6	643.6
55°	659.7	622.3	602.1	585.0	575.6	569.3	566.7
57.5°	573.4	544.7	528.2	514.2	510.6	505.3	503.4
60°	516.7	494.6	480.7	471.2	468.0	461.7	463.0
62.5°	466.7	448.5	436.7	431.3	427.1	421.8	423.5
65°	394.7	381.4	375.1	370.0	365.0	361.8	364.3
67.5°	331.1	322.1	313.5	310.5	308.0	307.5	304.8
70°	289.7	282.1	274.5	272.6	272.6	270.1	269.4
72.5°	249.7	244.2	239.1	237.7	235.7	236.7	234.0
75°	192.9	188.5	186.6	184.7	184.0	184.0	182.1
77.5°	142.6	139.3	136.3	136.3	134.0	133.1	132.8
80°	108.1	106.9	104.3	104.3	103.1	103.7	102.4
82.5°	81.4	79.5	79.1	78.0	76.3	76.4	75.2
85°	43.6	41.7	41.1	39.2	37.9	39.2	37.9
87.5°	20.5	20.3	20.0	19.0	18.6	18.7	17.3
90°	26.7	28.0	29.0	29.5	29.9	30.3	30.8
92.5°	43.2	44.0	44.5	44.8	45.1	45.3	45.6
95°	80.2	80.8	81.2	81.2	81.2	81.2	81.2
97.5°	126.0	126.7	127.2	127.2	127.2	127.2	127.2
100°	158.6	159.0	159.2	159.2	159.2	159.2	159.2
102.5°	193.6	194.2	194.6	194.9	195.0	195.2	195.4
105°	246.6	247.2	248.0	248.6	249.3	250.0	250.6
107.5°	303.7	304.4	304.7	304.7	304.6	304.6	304.5
110°	340.7	340.3	340.4	341.1	341.7	342.5	343.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	382.1	382.0	382.1	382.1	382.3	382.5	382.6
115°	445.2	445.0	444.7	444.5	444.3	444.0	443.9
117.5°	505.4	504.6	504.0	503.5	503.1	502.6	502.2
120°	546.2	545.1	544.7	545.2	545.7	546.1	546.5
122.5°	588.4	587.6	586.8	586.0	585.2	584.4	583.5
125°	650.0	649.5	649.0	648.6	648.2	647.7	647.2
127.5°	708.5	708.1	707.7	707.3	706.9	706.5	706.2
130°	749.6	749.2	748.5	747.6	746.6	745.8	744.8
132.5°	788.3	787.8	787.4	787.0	786.6	786.3	785.9
135°	846.2	845.7	845.2	844.5	843.8	843.1	842.4
137.5°	902.1	901.5	901.3	901.4	901.6	901.7	901.8
140°	939.4	939.1	938.9	938.7	938.4	938.2	938.0
142.5°	974.5	974.4	974.3	974.3	974.2	974.2	974.1
145°	1026.7	1026.4	1026.0	1025.3	1024.6	1024.0	1023.3
147.5°	1074.3	1074.1	1073.9	1073.6	1073.4	1073.2	1073.0
150°	1104.4	1104.4	1104.3	1104.1	1103.8	1103.6	1103.4
152.5°	1133.2	1133.8	1133.7	1133.1	1132.5	1131.9	1131.3
155°	1172.9	1173.9	1173.9	1172.9	1172.0	1171.1	1170.2
157.5°	1207.4	1208.1	1208.0	1207.2	1206.4	1205.7	1204.9
160°	1228.8	1229.4	1229.2	1228.0	1226.9	1225.7	1224.6
162.5°	1248.5	1249.7	1249.7	1248.6	1247.4	1246.3	1245.2
165°	1273.9	1275.3	1275.6	1274.6	1273.7	1272.8	1271.8
167.5°	1295.3	1296.6	1296.6	1295.2	1293.8	1292.4	1291.0
170°	1306.8	1308.2	1308.1	1306.5	1304.9	1303.3	1301.7
172.5°	1315.6	1317.2	1317.1	1315.5	1313.9	1312.3	1310.7
175°	1324.9	1326.6	1326.6	1324.9	1323.3	1321.8	1320.2
177.5°	1329.8	1331.0	1330.9	1329.5	1328.0	1326.6	1325.1
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4

(END OF REPORT)