

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: P332706-927

Luminaire Tested: **SA4XXDIP-C1195D1205U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332706-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

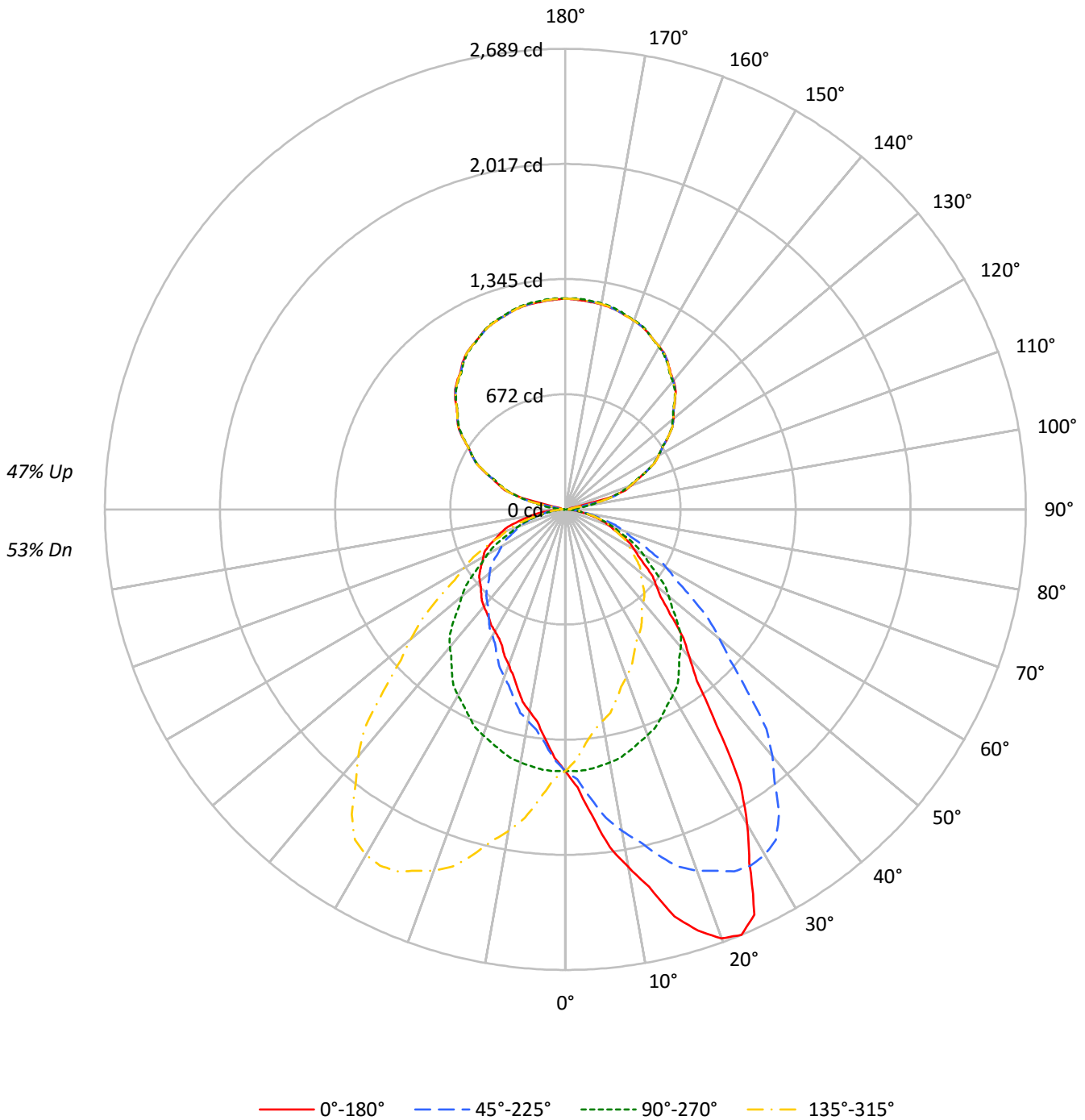
Lumens per Lamp: N/A
Luminaire Lumens: 8023.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32
4	75	65	57	51	69	60	53	48	52	47	42	44	40	37	37	34	31	28
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	20	17
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	18	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	5.7
20°-30°	727.0	9.1
30°-40°	809.1	10.1
40°-50°	736.5	9.2
50°-60°	601.9	7.5
60°-70°	429.7	5.4
70°-80°	236.6	2.9
80°-90°	68.2	0.8
90°-100°	42.1	0.5
100°-110°	268.4	3.3
110°-120°	513.4	6.4
120°-130°	651.7	8.1
130°-140°	697.3	8.7
140°-150°	652.1	8.1
150°-160°	525.8	6.6
160°-170°	339.2	4.2
170°-180°	116.9	1.5
0°-30°	1334.3	16.6
0°-40°	2143.4	26.7
0°-60°	3481.7	43.4
0°-90°	4216.1	52.6
90°-120°	823.9	10.3
90°-150°	2825.0	35.2
90°-180°	3807.0	47.5
0°-180°	8023.0	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°	28	3	28	3	28	13
95°	27	51	27	51	27	21
105°	262	277	262	277	262	229
115°	521	517	521	517	521	516
125°	733	727	733	727	733	653
135°	908	902	908	902	908	699
145°	1046	1040	1046	1040	1046	653
155°	1140	1140	1140	1140	1140	525
165°	1198	1203	1198	1203	1198	338
175°	1223	1231	1223	1231	1223	116
180°	1231	1231	1231	1231	1231	



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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°	16.6	18.1	18.0	18.5	19.3	19.7	20.0	19.3	21.0	21.2	23.0
90°	27.6	27.2	26.8	26.4	26.0	25.2	23.9	22.7	21.5	20.3	18.6
92.5°	25.4	25.3	25.3	25.2	25.1	24.4	23.2	21.9	20.8	19.5	17.9
95°	26.7	26.5	26.3	26.1	25.9	25.2	23.9	22.7	21.5	20.3	20.0
97.5°	25.7	25.6	25.3	25.2	25.0	24.8	24.6	24.6	24.4	24.3	47.1
100°	25.7	25.6	25.3	25.2	25.0	26.6	30.1	33.5	37.0	40.5	68.8
102.5°	26.5	26.5	26.5	26.4	26.4	45.1	82.6	120.1	157.6	195.1	198.8
105°	262.4	269.7	277.0	284.4	291.8	294.5	292.7	290.9	289.1	287.2	286.1
107.5°	365.6	364.8	364.1	363.3	362.5	361.6	360.8	359.9	358.9	358.1	356.6
110°	410.5	410.0	409.3	408.7	408.1	407.6	407.2	406.8	406.3	405.9	404.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	455.4	454.7	453.9	453.1	452.3	452.0	452.1	452.2	452.3	452.3	451.8
115°	521.0	521.0	521.0	521.0	521.0	520.8	520.4	520.0	519.6	519.1	519.4
117.5°	587.6	587.7	587.8	587.9	588.0	588.0	588.1	588.2	588.3	588.4	588.0
120°	629.6	630.0	630.4	630.8	631.2	631.2	630.8	630.4	630.0	629.6	629.8
122.5°	670.8	671.2	671.7	672.1	672.5	672.6	672.3	672.1	671.8	671.6	671.3
125°	732.7	732.5	732.3	732.1	731.9	731.5	730.9	730.2	729.6	729.0	729.4
127.5°	787.0	787.2	787.3	787.5	787.7	787.8	787.9	788.1	788.1	788.3	787.3
130°	823.8	823.8	823.8	823.8	823.8	823.7	823.6	823.3	823.1	822.9	822.3
132.5°	857.7	857.9	858.0	858.2	858.3	858.3	858.2	857.9	857.7	857.5	856.7
135°	908.5	908.1	907.7	907.3	906.9	906.5	906.0	905.6	905.2	904.8	904.0
137.5°	952.0	952.0	952.2	952.4	952.4	952.3	951.8	951.4	950.9	950.5	949.6
140°	982.1	981.9	981.8	981.5	981.4	981.0	980.3	979.7	979.1	978.5	978.0
142.5°	1007.2	1007.2	1007.1	1007.1	1007.0	1006.8	1006.3	1005.9	1005.4	1005.0	1004.7
145°	1045.7	1045.3	1044.8	1044.4	1044.0	1043.7	1043.5	1043.3	1043.1	1042.9	1042.9
147.5°	1077.5	1077.3	1077.1	1076.9	1076.7	1076.5	1076.3	1076.2	1076.0	1075.9	1076.0
150°	1098.1	1098.0	1097.7	1097.5	1097.3	1097.2	1097.2	1097.2	1097.2	1097.2	1097.4
152.5°	1115.8	1115.9	1116.0	1116.2	1116.3	1116.2	1115.9	1115.6	1115.2	1114.9	1115.2
155°	1139.6	1140.2	1140.7	1141.4	1142.0	1141.9	1141.1	1140.3	1139.5	1138.6	1139.2
157.5°	1159.4	1160.5	1161.6	1162.6	1163.7	1163.7	1162.6	1161.6	1160.5	1159.4	1160.2
160°	1172.7	1173.9	1175.1	1176.4	1177.6	1177.6	1176.4	1175.1	1173.9	1172.7	1172.9
162.5°	1183.0	1184.4	1185.8	1187.2	1188.6	1188.7	1187.4	1186.2	1184.9	1183.8	1183.9
165°	1197.5	1199.4	1201.2	1203.1	1204.9	1205.0	1203.4	1201.7	1200.1	1198.5	1198.5
167.5°	1208.4	1210.5	1212.5	1214.6	1216.6	1216.7	1214.9	1213.1	1211.3	1209.5	1209.7
170°	1215.0	1217.1	1219.1	1221.1	1223.2	1223.4	1221.8	1220.1	1218.5	1216.9	1216.6
172.5°	1218.7	1220.9	1223.1	1225.3	1227.6	1227.8	1226.2	1224.6	1222.9	1221.3	1221.1
175°	1223.3	1225.7	1228.2	1230.7	1233.1	1233.4	1231.6	1229.8	1227.9	1226.1	1225.9
177.5°	1226.3	1228.2	1230.2	1232.2	1234.1	1234.5	1233.1	1231.8	1230.5	1229.2	1228.9
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7



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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°	22.7	22.8	21.9	19.6	17.6	15.6	14.7	13.7	14.7	15.6	16.6
90°	17.0	15.4	13.7	11.7	9.5	7.3	5.0	2.8	5.0	7.3	9.5
92.5°	16.2	14.6	13.0	12.1	12.0	11.9	11.7	11.6	11.7	11.9	12.0
95°	19.8	19.6	19.4	22.8	29.8	36.7	43.6	50.6	43.6	36.7	29.8
97.5°	69.9	92.8	115.6	124.8	120.5	116.2	111.9	107.5	111.9	116.2	120.5
100°	97.0	125.2	153.4	165.7	162.0	158.4	154.6	151.0	154.6	158.4	162.0
102.5°	202.5	206.2	209.8	210.3	207.6	204.9	202.2	199.6	202.2	204.9	207.6
105°	285.1	284.2	283.1	281.9	280.7	279.5	278.3	277.0	278.3	279.5	280.7
107.5°	355.3	353.9	352.5	351.5	350.9	350.3	349.7	349.0	349.7	350.3	350.9
110°	403.5	402.3	401.0	400.1	399.5	398.9	398.2	397.7	398.2	398.9	399.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	451.1	450.6	450.0	449.2	448.1	446.9	445.9	444.8	445.9	446.9	448.1
115°	519.6	519.8	520.0	519.8	519.1	518.6	517.9	517.3	517.9	518.6	519.1
117.5°	587.5	587.0	586.5	585.9	585.1	584.3	583.4	582.7	583.4	584.3	585.1
120°	630.0	630.3	630.4	630.1	629.3	628.5	627.6	626.9	627.6	628.5	629.3
122.5°	671.0	670.7	670.4	670.0	669.6	669.1	668.6	668.0	668.6	669.1	669.6
125°	729.8	730.2	730.6	730.5	729.6	728.8	728.0	727.1	728.0	728.8	729.6
127.5°	786.4	785.4	784.5	783.9	783.8	783.5	783.3	783.2	783.3	783.5	783.8
130°	821.7	821.1	820.5	820.1	819.8	819.7	819.4	819.2	819.4	819.7	819.8
132.5°	856.0	855.2	854.4	853.8	853.5	853.1	852.7	852.4	852.7	853.1	853.5
135°	903.2	902.4	901.6	901.3	901.4	901.7	901.9	902.1	901.9	901.7	901.4
137.5°	948.7	947.8	946.9	946.4	946.3	946.3	946.2	946.1	946.2	946.3	946.3
140°	977.6	977.2	976.8	976.4	976.0	975.6	975.2	974.8	975.2	975.6	976.0
142.5°	1004.5	1004.2	1004.0	1003.5	1002.7	1002.0	1001.3	1000.5	1001.3	1002.0	1002.7
145°	1042.9	1042.9	1042.9	1042.6	1042.0	1041.4	1040.8	1040.1	1040.8	1041.4	1042.0
147.5°	1076.3	1076.5	1076.7	1076.2	1075.1	1073.9	1072.8	1071.6	1072.8	1073.9	1075.1
150°	1097.6	1097.8	1098.0	1097.7	1096.9	1096.1	1095.3	1094.5	1095.3	1096.1	1096.9
152.5°	1115.6	1116.0	1116.3	1116.2	1115.6	1114.9	1114.3	1113.6	1114.3	1114.9	1115.6
155°	1139.9	1140.5	1141.1	1141.3	1141.1	1140.9	1140.7	1140.5	1140.7	1140.9	1141.1
157.5°	1160.9	1161.5	1162.2	1162.6	1162.8	1162.8	1163.0	1163.1	1163.0	1162.8	1162.8
160°	1173.1	1173.3	1173.5	1173.9	1174.6	1175.1	1175.8	1176.4	1175.8	1175.1	1174.6
162.5°	1184.2	1184.3	1184.6	1185.0	1185.8	1186.6	1187.4	1188.1	1187.4	1186.6	1185.8
165°	1198.5	1198.5	1198.5	1199.0	1200.0	1201.0	1202.1	1203.1	1202.1	1201.0	1200.0
167.5°	1209.7	1209.9	1210.0	1210.6	1211.6	1212.8	1213.8	1214.8	1213.8	1212.8	1211.6
170°	1216.5	1216.2	1216.1	1216.6	1217.8	1219.0	1220.3	1221.5	1220.3	1219.0	1217.8
172.5°	1220.9	1220.7	1220.4	1221.0	1222.2	1223.4	1224.6	1225.9	1224.6	1223.4	1222.2
175°	1225.7	1225.4	1225.3	1225.7	1227.0	1228.2	1229.5	1230.7	1229.5	1228.2	1227.0
177.5°	1228.5	1228.2	1227.9	1228.3	1229.5	1230.6	1231.8	1232.9	1231.8	1230.6	1229.5
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7



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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°	18.5	18.9	21.3	22.7	24.5	27.3	28.6	34.4	36.7	39.5	44.1
90°	11.7	13.7	15.4	17.0	18.6	20.3	21.5	22.7	23.9	25.2	26.0
92.5°	12.1	13.0	14.6	16.2	17.9	19.5	20.8	21.9	23.2	24.4	25.1
95°	22.8	19.4	19.6	19.8	20.0	20.3	21.5	22.7	23.9	25.2	25.9
97.5°	124.8	115.6	92.8	69.9	47.1	24.3	24.4	24.6	24.6	24.8	25.0
100°	165.7	153.4	125.2	97.0	68.8	40.5	37.0	33.5	30.1	26.6	25.0
102.5°	210.3	209.8	206.2	202.5	198.8	195.1	157.6	120.1	82.6	45.1	26.4
105°	281.9	283.1	284.2	285.1	286.1	287.2	289.1	290.9	292.7	294.5	291.8
107.5°	351.5	352.5	353.9	355.3	356.6	358.1	358.9	359.9	360.8	361.6	362.5
110°	400.1	401.0	402.3	403.5	404.7	405.9	406.3	406.8	407.2	407.6	408.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	449.2	450.0	450.6	451.1	451.8	452.3	452.3	452.2	452.1	452.0	452.3
115°	519.8	520.0	519.8	519.6	519.4	519.1	519.6	520.0	520.4	520.8	521.0
117.5°	585.9	586.5	587.0	587.5	588.0	588.4	588.3	588.2	588.1	588.0	588.0
120°	630.1	630.4	630.3	630.0	629.8	629.6	630.0	630.4	630.8	631.2	631.2
122.5°	670.0	670.4	670.7	671.0	671.3	671.6	671.8	672.1	672.3	672.6	672.5
125°	730.5	730.6	730.2	729.8	729.4	729.0	729.6	730.2	730.9	731.5	731.9
127.5°	783.9	784.5	785.4	786.4	787.3	788.3	788.1	788.1	787.9	787.8	787.7
130°	820.1	820.5	821.1	821.7	822.3	822.9	823.1	823.3	823.6	823.7	823.8
132.5°	853.8	854.4	855.2	856.0	856.7	857.5	857.7	857.9	858.2	858.3	858.3
135°	901.3	901.6	902.4	903.2	904.0	904.8	905.2	905.6	906.0	906.5	906.9
137.5°	946.4	946.9	947.8	948.7	949.6	950.5	950.9	951.4	951.8	952.3	952.4
140°	976.4	976.8	977.2	977.6	978.0	978.5	979.1	979.7	980.3	981.0	981.4
142.5°	1003.5	1004.0	1004.2	1004.5	1004.7	1005.0	1005.4	1005.9	1006.3	1006.8	1007.0
145°	1042.6	1042.9	1042.9	1042.9	1042.9	1042.9	1043.1	1043.3	1043.5	1043.7	1044.0
147.5°	1076.2	1076.7	1076.5	1076.3	1076.0	1075.9	1076.0	1076.2	1076.3	1076.5	1076.7
150°	1097.7	1098.0	1097.8	1097.6	1097.4	1097.2	1097.2	1097.2	1097.2	1097.2	1097.3
152.5°	1116.2	1116.3	1116.0	1115.6	1115.2	1114.9	1115.2	1115.6	1115.9	1116.2	1116.3
155°	1141.3	1141.1	1140.5	1139.9	1139.2	1138.6	1139.5	1140.3	1141.1	1141.9	1142.0
157.5°	1162.6	1162.2	1161.5	1160.9	1160.2	1159.4	1160.5	1161.6	1162.6	1163.7	1163.7
160°	1173.9	1173.5	1173.3	1173.1	1172.9	1172.7	1173.9	1175.1	1176.4	1177.6	1177.6
162.5°	1185.0	1184.6	1184.3	1184.2	1183.9	1183.8	1184.9	1186.2	1187.4	1188.7	1188.6
165°	1199.0	1198.5	1198.5	1198.5	1198.5	1198.5	1200.1	1201.7	1203.4	1205.0	1204.9
167.5°	1210.6	1210.0	1209.9	1209.7	1209.7	1209.5	1211.3	1213.1	1214.9	1216.7	1216.6
170°	1216.6	1216.1	1216.2	1216.5	1216.6	1216.9	1218.5	1220.1	1221.8	1223.4	1223.2
172.5°	1221.0	1220.4	1220.7	1220.9	1221.1	1221.3	1222.9	1224.6	1226.2	1227.8	1227.6
175°	1225.7	1225.3	1225.4	1225.7	1225.9	1226.1	1227.9	1229.8	1231.6	1233.4	1233.1
177.5°	1228.3	1227.9	1228.2	1228.5	1228.9	1229.2	1230.5	1231.8	1233.1	1234.5	1234.1
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7



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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°	45.8	46.3	47.9	49.0	47.9	46.3	45.8	44.1	39.5	36.7	34.4
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.2	23.9	22.7
92.5°	25.2	25.3	25.3	25.4	25.3	25.3	25.2	25.1	24.4	23.2	21.9
95°	26.1	26.3	26.5	26.7	26.5	26.3	26.1	25.9	25.2	23.9	22.7
97.5°	25.2	25.3	25.6	25.7	25.6	25.3	25.2	25.0	24.8	24.6	24.6
100°	25.2	25.3	25.6	25.7	25.6	25.3	25.2	25.0	26.6	30.1	33.5
102.5°	26.4	26.5	26.5	26.5	26.5	26.5	26.4	26.4	45.1	82.6	120.1
105°	284.4	277.0	269.7	262.4	269.7	277.0	284.4	291.8	294.5	292.7	290.9
107.5°	363.3	364.1	364.8	365.6	364.8	364.1	363.3	362.5	361.6	360.8	359.9
110°	408.7	409.3	410.0	410.5	410.0	409.3	408.7	408.1	407.6	407.2	406.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	453.1	453.9	454.7	455.4	454.7	453.9	453.1	452.3	452.0	452.1	452.2
115°	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	520.8	520.4	520.0
117.5°	587.9	587.8	587.7	587.6	587.7	587.8	587.9	588.0	588.0	588.1	588.2
120°	630.8	630.4	630.0	629.6	630.0	630.4	630.8	631.2	631.2	630.8	630.4
122.5°	672.1	671.7	671.2	670.8	671.2	671.7	672.1	672.5	672.6	672.3	672.1
125°	732.1	732.3	732.5	732.7	732.5	732.3	732.1	731.9	731.5	730.9	730.2
127.5°	787.5	787.3	787.2	787.0	787.2	787.3	787.5	787.7	787.8	787.9	788.1
130°	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.7	823.6	823.3
132.5°	858.2	858.0	857.9	857.7	857.9	858.0	858.2	858.3	858.3	858.2	857.9
135°	907.3	907.7	908.1	908.5	908.1	907.7	907.3	906.9	906.5	906.0	905.6
137.5°	952.4	952.2	952.0	952.0	952.0	952.2	952.4	952.4	952.3	951.8	951.4
140°	981.5	981.8	981.9	982.1	981.9	981.8	981.5	981.4	981.0	980.3	979.7
142.5°	1007.1	1007.1	1007.2	1007.2	1007.2	1007.1	1007.1	1007.0	1006.8	1006.3	1005.9
145°	1044.4	1044.8	1045.3	1045.7	1045.3	1044.8	1044.4	1044.0	1043.7	1043.5	1043.3
147.5°	1076.9	1077.1	1077.3	1077.5	1077.3	1077.1	1076.9	1076.7	1076.5	1076.3	1076.2
150°	1097.5	1097.7	1098.0	1098.1	1098.0	1097.7	1097.5	1097.3	1097.2	1097.2	1097.2
152.5°	1116.2	1116.0	1115.9	1115.8	1115.9	1116.0	1116.2	1116.3	1116.2	1115.9	1115.6
155°	1141.4	1140.7	1140.2	1139.6	1140.2	1140.7	1141.4	1142.0	1141.9	1141.1	1140.3
157.5°	1162.6	1161.6	1160.5	1159.4	1160.5	1161.6	1162.6	1163.7	1163.7	1162.6	1161.6
160°	1176.4	1175.1	1173.9	1172.7	1173.9	1175.1	1176.4	1177.6	1177.6	1176.4	1175.1
162.5°	1187.2	1185.8	1184.4	1183.0	1184.4	1185.8	1187.2	1188.6	1188.7	1187.4	1186.2
165°	1203.1	1201.2	1199.4	1197.5	1199.4	1201.2	1203.1	1204.9	1205.0	1203.4	1201.7
167.5°	1214.6	1212.5	1210.5	1208.4	1210.5	1212.5	1214.6	1216.6	1216.7	1214.9	1213.1
170°	1221.1	1219.1	1217.1	1215.0	1217.1	1219.1	1221.1	1223.2	1223.4	1221.8	1220.1
172.5°	1225.3	1223.1	1220.9	1218.7	1220.9	1223.1	1225.3	1227.6	1227.8	1226.2	1224.6
175°	1230.7	1228.2	1225.7	1223.3	1225.7	1228.2	1230.7	1233.1	1233.4	1231.6	1229.8
177.5°	1232.2	1230.2	1228.2	1226.3	1228.2	1230.2	1232.2	1234.1	1234.5	1233.1	1231.8
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7



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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°	28.6	27.3	24.5	22.7	21.3	18.9	18.5	16.6	15.6	14.7	13.7
90°	21.5	20.3	18.6	17.0	15.4	13.7	11.7	9.5	7.3	5.0	2.8
92.5°	20.8	19.5	17.9	16.2	14.6	13.0	12.1	12.0	11.9	11.7	11.6
95°	21.5	20.3	20.0	19.8	19.6	19.4	22.8	29.8	36.7	43.6	50.6
97.5°	24.4	24.3	47.1	69.9	92.8	115.6	124.8	120.5	116.2	111.9	107.5
100°	37.0	40.5	68.8	97.0	125.2	153.4	165.7	162.0	158.4	154.6	151.0
102.5°	157.6	195.1	198.8	202.5	206.2	209.8	210.3	207.6	204.9	202.2	199.6
105°	289.1	287.2	286.1	285.1	284.2	283.1	281.9	280.7	279.5	278.3	277.0
107.5°	358.9	358.1	356.6	355.3	353.9	352.5	351.5	350.9	350.3	349.7	349.0
110°	406.3	405.9	404.7	403.5	402.3	401.0	400.1	399.5	398.9	398.2	397.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	452.3	452.3	451.8	451.1	450.6	450.0	449.2	448.1	446.9	445.9	444.8
115°	519.6	519.1	519.4	519.6	519.8	520.0	519.8	519.1	518.6	517.9	517.3
117.5°	588.3	588.4	588.0	587.5	587.0	586.5	585.9	585.1	584.3	583.4	582.7
120°	630.0	629.6	629.8	630.0	630.3	630.4	630.1	629.3	628.5	627.6	626.9
122.5°	671.8	671.6	671.3	671.0	670.7	670.4	670.0	669.6	669.1	668.6	668.0
125°	729.6	729.0	729.4	729.8	730.2	730.6	730.5	729.6	728.8	728.0	727.1
127.5°	788.1	788.3	787.3	786.4	785.4	784.5	783.9	783.8	783.5	783.3	783.2
130°	823.1	822.9	822.3	821.7	821.1	820.5	820.1	819.8	819.7	819.4	819.2
132.5°	857.7	857.5	856.7	856.0	855.2	854.4	853.8	853.5	853.1	852.7	852.4
135°	905.2	904.8	904.0	903.2	902.4	901.6	901.3	901.4	901.7	901.9	902.1
137.5°	950.9	950.5	949.6	948.7	947.8	946.9	946.4	946.3	946.3	946.2	946.1
140°	979.1	978.5	978.0	977.6	977.2	976.8	976.4	976.0	975.6	975.2	974.8
142.5°	1005.4	1005.0	1004.7	1004.5	1004.2	1004.0	1003.5	1002.7	1002.0	1001.3	1000.5
145°	1043.1	1042.9	1042.9	1042.9	1042.9	1042.9	1042.6	1042.0	1041.4	1040.8	1040.1
147.5°	1076.0	1075.9	1076.0	1076.3	1076.5	1076.7	1076.2	1075.1	1073.9	1072.8	1071.6
150°	1097.2	1097.2	1097.4	1097.6	1097.8	1098.0	1097.7	1096.9	1096.1	1095.3	1094.5
152.5°	1115.2	1114.9	1115.2	1115.6	1116.0	1116.3	1116.2	1115.6	1114.9	1114.3	1113.6
155°	1139.5	1138.6	1139.2	1139.9	1140.5	1141.1	1141.3	1141.1	1140.9	1140.7	1140.5
157.5°	1160.5	1159.4	1160.2	1160.9	1161.5	1162.2	1162.6	1162.8	1162.8	1163.0	1163.1
160°	1173.9	1172.7	1172.9	1173.1	1173.3	1173.5	1173.9	1174.6	1175.1	1175.8	1176.4
162.5°	1184.9	1183.8	1183.9	1184.2	1184.3	1184.6	1185.0	1185.8	1186.6	1187.4	1188.1
165°	1200.1	1198.5	1198.5	1198.5	1198.5	1198.5	1199.0	1200.0	1201.0	1202.1	1203.1
167.5°	1211.3	1209.5	1209.7	1209.7	1209.9	1210.0	1210.6	1211.6	1212.8	1213.8	1214.8
170°	1218.5	1216.9	1216.6	1216.5	1216.2	1216.1	1216.6	1217.8	1219.0	1220.3	1221.5
172.5°	1222.9	1221.3	1221.1	1220.9	1220.7	1220.4	1221.0	1222.2	1223.4	1224.6	1225.9
175°	1227.9	1226.1	1225.9	1225.7	1225.4	1225.3	1225.7	1227.0	1228.2	1229.5	1230.7
177.5°	1230.5	1229.2	1228.9	1228.5	1228.2	1227.9	1228.3	1229.5	1230.6	1231.8	1232.9
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7



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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°	14.7	15.6	17.6	19.6	21.9	22.8	22.7	23.0	21.2	21.0	19.3
90°	5.0	7.3	9.5	11.7	13.7	15.4	17.0	18.6	20.3	21.5	22.7
92.5°	11.7	11.9	12.0	12.1	13.0	14.6	16.2	17.9	19.5	20.8	21.9
95°	43.6	36.7	29.8	22.8	19.4	19.6	19.8	20.0	20.3	21.5	22.7
97.5°	111.9	116.2	120.5	124.8	115.6	92.8	69.9	47.1	24.3	24.4	24.6
100°	154.6	158.4	162.0	165.7	153.4	125.2	97.0	68.8	40.5	37.0	33.5
102.5°	202.2	204.9	207.6	210.3	209.8	206.2	202.5	198.8	195.1	157.6	120.1
105°	278.3	279.5	280.7	281.9	283.1	284.2	285.1	286.1	287.2	289.1	290.9
107.5°	349.7	350.3	350.9	351.5	352.5	353.9	355.3	356.6	358.1	358.9	359.9
110°	398.2	398.9	399.5	400.1	401.0	402.3	403.5	404.7	405.9	406.3	406.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	445.9	446.9	448.1	449.2	450.0	450.6	451.1	451.8	452.3	452.3	452.2
115°	517.9	518.6	519.1	519.8	520.0	519.8	519.6	519.4	519.1	519.6	520.0
117.5°	583.4	584.3	585.1	585.9	586.5	587.0	587.5	588.0	588.4	588.3	588.2
120°	627.6	628.5	629.3	630.1	630.4	630.3	630.0	629.8	629.6	630.0	630.4
122.5°	668.6	669.1	669.6	670.0	670.4	670.7	671.0	671.3	671.6	671.8	672.1
125°	728.0	728.8	729.6	730.5	730.6	730.2	729.8	729.4	729.0	729.6	730.2
127.5°	783.3	783.5	783.8	783.9	784.5	785.4	786.4	787.3	788.3	788.1	788.1
130°	819.4	819.7	819.8	820.1	820.5	821.1	821.7	822.3	822.9	823.1	823.3
132.5°	852.7	853.1	853.5	853.8	854.4	855.2	856.0	856.7	857.5	857.7	857.9
135°	901.9	901.7	901.4	901.3	901.6	902.4	903.2	904.0	904.8	905.2	905.6
137.5°	946.2	946.3	946.3	946.4	946.9	947.8	948.7	949.6	950.5	950.9	951.4
140°	975.2	975.6	976.0	976.4	976.8	977.2	977.6	978.0	978.5	979.1	979.7
142.5°	1001.3	1002.0	1002.7	1003.5	1004.0	1004.2	1004.5	1004.7	1005.0	1005.4	1005.9
145°	1040.8	1041.4	1042.0	1042.6	1042.9	1042.9	1042.9	1042.9	1042.9	1043.1	1043.3
147.5°	1072.8	1073.9	1075.1	1076.2	1076.7	1076.5	1076.3	1076.0	1075.9	1076.0	1076.2
150°	1095.3	1096.1	1096.9	1097.7	1098.0	1097.8	1097.6	1097.4	1097.2	1097.2	1097.2
152.5°	1114.3	1114.9	1115.6	1116.2	1116.3	1116.0	1115.6	1115.2	1114.9	1115.2	1115.6
155°	1140.7	1140.9	1141.1	1141.3	1141.1	1140.5	1139.9	1139.2	1138.6	1139.5	1140.3
157.5°	1163.0	1162.8	1162.8	1162.6	1162.2	1161.5	1160.9	1160.2	1159.4	1160.5	1161.6
160°	1175.8	1175.1	1174.6	1173.9	1173.5	1173.3	1173.1	1172.9	1172.7	1173.9	1175.1
162.5°	1187.4	1186.6	1185.8	1185.0	1184.6	1184.3	1184.2	1183.9	1183.8	1184.9	1186.2
165°	1202.1	1201.0	1200.0	1199.0	1198.5	1198.5	1198.5	1198.5	1198.5	1200.1	1201.7
167.5°	1213.8	1212.8	1211.6	1210.6	1210.0	1209.9	1209.7	1209.7	1209.5	1211.3	1213.1
170°	1220.3	1219.0	1217.8	1216.6	1216.1	1216.2	1216.5	1216.6	1216.9	1218.5	1220.1
172.5°	1224.6	1223.4	1222.2	1221.0	1220.4	1220.7	1220.9	1221.1	1221.3	1222.9	1224.6
175°	1229.5	1228.2	1227.0	1225.7	1225.3	1225.4	1225.7	1225.9	1226.1	1227.9	1229.8
177.5°	1231.8	1230.6	1229.5	1228.3	1227.9	1228.2	1228.5	1228.9	1229.2	1230.5	1231.8
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7



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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°	20.0	19.7	19.3	18.5	18.0	18.1	16.6
90°	23.9	25.2	26.0	26.4	26.8	27.2	27.6
92.5°	23.2	24.4	25.1	25.2	25.3	25.3	25.4
95°	23.9	25.2	25.9	26.1	26.3	26.5	26.7
97.5°	24.6	24.8	25.0	25.2	25.3	25.6	25.7
100°	30.1	26.6	25.0	25.2	25.3	25.6	25.7
102.5°	82.6	45.1	26.4	26.4	26.5	26.5	26.5
105°	292.7	294.5	291.8	284.4	277.0	269.7	262.4
107.5°	360.8	361.6	362.5	363.3	364.1	364.8	365.6
110°	407.2	407.6	408.1	408.7	409.3	410.0	410.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	452.1	452.0	452.3	453.1	453.9	454.7	455.4
115°	520.4	520.8	521.0	521.0	521.0	521.0	521.0
117.5°	588.1	588.0	588.0	587.9	587.8	587.7	587.6
120°	630.8	631.2	631.2	630.8	630.4	630.0	629.6
122.5°	672.3	672.6	672.5	672.1	671.7	671.2	670.8
125°	730.9	731.5	731.9	732.1	732.3	732.5	732.7
127.5°	787.9	787.8	787.7	787.5	787.3	787.2	787.0
130°	823.6	823.7	823.8	823.8	823.8	823.8	823.8
132.5°	858.2	858.3	858.3	858.2	858.0	857.9	857.7
135°	906.0	906.5	906.9	907.3	907.7	908.1	908.5
137.5°	951.8	952.3	952.4	952.4	952.2	952.0	952.0
140°	980.3	981.0	981.4	981.5	981.8	981.9	982.1
142.5°	1006.3	1006.8	1007.0	1007.1	1007.1	1007.2	1007.2
145°	1043.5	1043.7	1044.0	1044.4	1044.8	1045.3	1045.7
147.5°	1076.3	1076.5	1076.7	1076.9	1077.1	1077.3	1077.5
150°	1097.2	1097.2	1097.3	1097.5	1097.7	1098.0	1098.1
152.5°	1115.9	1116.2	1116.3	1116.2	1116.0	1115.9	1115.8
155°	1141.1	1141.9	1142.0	1141.4	1140.7	1140.2	1139.6
157.5°	1162.6	1163.7	1163.7	1162.6	1161.6	1160.5	1159.4
160°	1176.4	1177.6	1177.6	1176.4	1175.1	1173.9	1172.7
162.5°	1187.4	1188.7	1188.6	1187.2	1185.8	1184.4	1183.0
165°	1203.4	1205.0	1204.9	1203.1	1201.2	1199.4	1197.5
167.5°	1214.9	1216.7	1216.6	1214.6	1212.5	1210.5	1208.4
170°	1221.8	1223.4	1223.2	1221.1	1219.1	1217.1	1215.0
172.5°	1226.2	1227.8	1227.6	1225.3	1223.1	1220.9	1218.7
175°	1231.6	1233.4	1233.1	1230.7	1228.2	1225.7	1223.3
177.5°	1233.1	1234.5	1234.1	1232.2	1230.2	1228.2	1226.3
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7

(END OF REPORT)