

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: P333323-840

Luminaire Tested: **S125DIP-S1270D1035U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

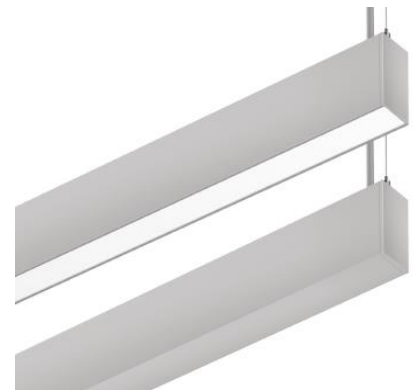
Test Information

Test Method: LM-79-08
Report Number: P333323-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1270D1035U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

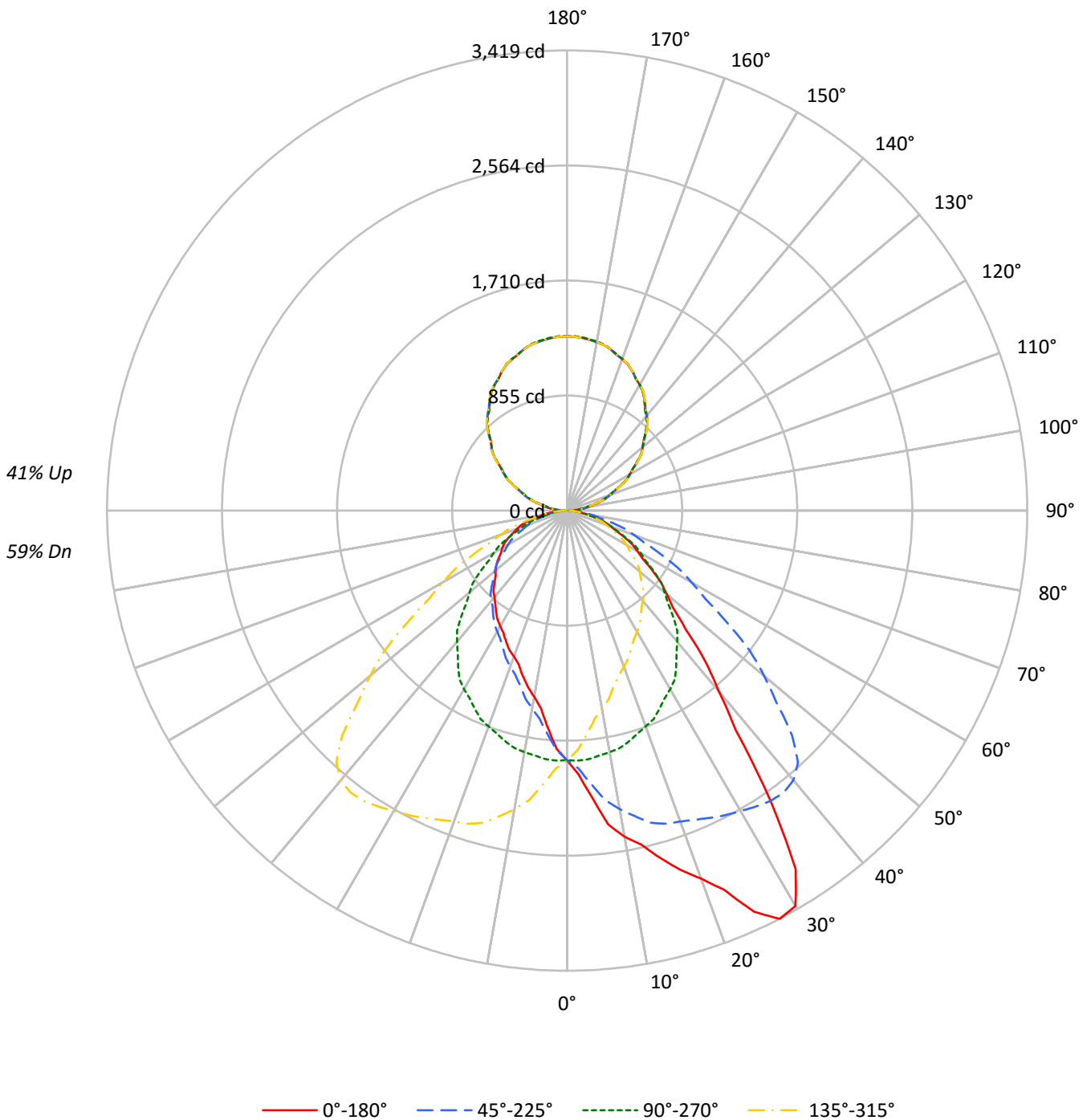
Lumens per Lamp: N/A
Luminaire Lumens: 8851.5 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	89	93	90	86	83	78	76	73	67	66	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	83	74	67	61	78	69	63	58	61	56	52	53	49	46	45	42	40	36
4	76	66	58	52	71	62	55	49	54	49	44	47	43	39	41	37	35	31
5	70	59	50	44	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	30	27	24
7	60	48	40	34	56	45	38	32	40	34	30	35	30	27	30	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	48	37	30	26	33	28	24	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11978	11978	11978	11978
5°	13871	12019	10524	12019
10°	16138	11956	9220	11956
15°	17864	11869	8505	11869
20°	19996	11730	7932	11730
25°	23426	11573	7652	11573
30°	25302	11419	7409	11419
35°	20805	11129	7250	11129
40°	14787	10725	7075	10725
45°	11359	10181	6974	10181
50°	9697	9507	6961	9507
55°	8634	8847	7020	8847
60°	7789	8123	7198	8123
65°	7195	7398	7386	7398
70°	6541	6643	7493	6643
75°	5777	5854	7426	5854
80°	4861	4775	6791	4775
85°	3846	3446	5483	3446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	2.0
10°-20°	531.6	6.0
20°-30°	863.2	9.8
30°-40°	1053.0	11.9
40°-50°	957.9	10.8
50°-60°	763.0	8.6
60°-70°	531.4	6.0
70°-80°	283.4	3.2
80°-90°	74.4	0.8
90°-100°	86.8	1.0
100°-110°	256.2	2.9
110°-120°	434.0	4.9
120°-130°	571.2	6.5
130°-140°	640.0	7.2
140°-150°	627.3	7.1
150°-160°	526.9	6.0
160°-170°	350.2	4.0
170°-180°	122.6	1.4
0°-30°	1573.4	17.8
0°-40°	2626.3	29.7
0°-60°	4347.2	49.1
0°-90°	5236.4	59.2
90°-120°	777.0	8.8
90°-150°	2615.5	29.5
90°-180°	3615.0	40.8
0°-180°	8851.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1855	1855	1855	1855	1855	
5°	2140	1854	1623	1854	2140	216
15°	2672	1775	1272	1775	2672	765
25°	3287	1624	1074	1624	3287	1502
35°	2639	1412	920	1412	2639	1615
45°	1244	1115	764	1115	1244	995
55°	767	786	624	786	767	691
65°	471	484	483	484	471	467
75°	232	235	298	235	232	249
85°	52	46	74	46	52	61
90°	24	1	24	1	24	16
95°	87	66	87	66	87	88
105°	250	230	250	230	250	265
115°	439	434	439	434	439	434
125°	638	634	638	634	638	570
135°	828	825	828	825	828	638
145°	1003	999	1003	999	1003	626
155°	1143	1143	1143	1143	1143	526
165°	1240	1243	1240	1243	1240	350
175°	1288	1292	1288	1292	1288	122
180°	1296	1296	1296	1296	1296	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1961.8	1959.2	1956.7	1951.7	1955.4	1944.7	1939.6	1930.9	1920.2	1916.4	1912.0
5°	2139.6	2143.5	2147.5	2131.0	2132.5	2121.5	2096.4	2075.9	2059.3	2038.1	2023.2
7.5°	2353.8	2344.5	2343.7	2333.0	2314.6	2299.8	2273.3	2239.6	2207.1	2169.9	2139.2
10°	2460.8	2461.6	2454.6	2442.0	2422.3	2408.1	2373.5	2340.4	2300.3	2253.0	2219.2
12.5°	2541.4	2544.8	2535.8	2518.8	2509.1	2477.4	2450.2	2411.0	2363.2	2325.4	2273.9
15°	2671.8	2663.1	2656.9	2635.5	2619.1	2586.0	2542.7	2501.7	2449.8	2401.8	2353.8
17.5°	2797.4	2804.4	2792.6	2773.2	2721.9	2683.3	2625.2	2569.1	2504.5	2440.0	2382.8
20°	2909.5	2915.9	2897.7	2863.9	2802.5	2763.9	2687.6	2615.1	2540.3	2457.7	2394.7
22.5°	3049.4	3044.3	3019.9	2968.4	2915.2	2843.9	2761.3	2673.0	2579.4	2486.0	2402.3
25°	3287.4	3254.3	3239.3	3175.6	3105.5	3000.8	2887.5	2758.3	2641.9	2518.3	2411.3
27.5°	3419.3	3408.9	3392.2	3347.9	3274.2	3162.2	3028.6	2871.2	2706.9	2550.9	2410.7
30°	3392.8	3394.5	3396.1	3381.8	3334.7	3250.4	3117.4	2948.1	2752.9	2577.4	2415.2
32.5°	3158.7	3187.2	3214.7	3247.1	3260.3	3244.1	3160.8	3008.0	2807.0	2607.6	2412.7
35°	2638.8	2647.4	2736.3	2824.5	2944.2	3037.1	3099.3	3031.5	2862.3	2633.2	2409.6
37.5°	2057.5	2100.0	2161.5	2261.2	2433.9	2588.5	2787.3	2878.8	2824.2	2641.6	2404.2
40°	1753.9	1793.3	1833.4	1935.0	2080.6	2268.0	2493.9	2686.7	2731.6	2615.1	2385.3
42.5°	1519.6	1550.8	1595.4	1671.7	1793.4	1959.3	2175.2	2427.3	2582.3	2538.3	2345.6
45°	1243.7	1263.4	1298.1	1358.8	1446.9	1576.8	1767.3	2042.9	2282.9	2362.4	2251.4
47.5°	1064.6	1064.5	1091.4	1133.3	1196.9	1307.3	1448.1	1664.1	1920.5	2110.2	2101.4
50°	965.1	961.2	982.4	1018.7	1069.0	1142.3	1276.9	1449.3	1695.7	1910.6	1970.3
52.5°	879.5	879.9	893.0	919.8	962.0	1024.5	1125.1	1280.5	1491.0	1711.5	1824.3
55°	766.8	763.6	778.5	796.7	827.4	868.3	940.7	1059.6	1230.4	1447.6	1594.1
57.5°	663.5	672.2	678.1	690.7	716.2	743.6	804.7	891.9	1027.4	1213.9	1368.7
60°	603.0	611.7	616.4	628.9	649.4	673.1	720.3	791.1	905.3	1065.9	1219.4
62.5°	548.9	555.6	557.1	568.6	585.2	608.2	645.4	704.9	795.1	935.5	1085.9
65°	470.8	470.8	473.9	485.7	493.6	514.0	542.4	585.7	658.1	767.5	895.9
67.5°	395.5	399.3	398.5	403.6	410.9	426.9	447.2	482.9	536.5	616.4	719.0
70°	346.4	349.5	348.7	352.6	360.5	370.8	387.3	421.1	459.7	528.3	616.4
72.5°	302.3	303.6	301.5	306.7	311.4	320.4	338.8	356.9	392.9	450.8	523.2
75°	231.5	233.0	234.6	237.7	242.5	247.2	256.6	274.8	298.3	341.6	388.1
77.5°	173.5	170.5	174.3	173.8	176.5	180.2	188.4	198.0	217.4	244.8	280.7
80°	130.7	131.5	131.5	132.3	136.2	138.6	145.6	152.7	167.6	188.1	213.4
82.5°	95.4	97.5	96.2	97.7	100.9	102.6	106.5	112.4	121.1	137.1	155.4
85°	51.9	48.1	49.6	51.2	51.2	51.9	55.1	57.5	62.2	68.5	75.5
87.5°	20.0	21.1	21.6	21.4	21.9	21.7	24.0	23.8	25.4	27.2	29.4
90°	24.2	23.5	22.8	22.2	21.5	20.6	19.5	18.4	17.3	16.2	14.5
92.5°	47.6	47.1	46.6	46.2	45.6	44.6	43.1	41.7	40.2	38.7	36.8
95°	86.7	86.2	85.8	85.3	84.9	83.9	82.3	80.8	79.2	77.7	75.4
97.5°	131.5	131.2	131.0	130.7	130.4	129.6	128.1	126.5	125.1	123.6	120.5
100°	165.3	164.9	164.4	164.0	163.6	162.3	160.3	158.2	156.2	154.2	151.4
102.5°	199.2	198.6	197.9	197.3	196.7	195.3	193.1	190.9	188.7	186.5	185.0
105°	250.0	249.3	248.7	248.0	247.3	246.3	245.0	243.7	242.3	241.0	239.6
107.5°	302.1	302.2	302.2	302.2	302.3	301.9	301.2	300.5	299.9	299.2	298.2
110°	340.7	341.0	341.2	341.4	341.6	341.4	340.7	340.1	339.4	338.7	338.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	378.7	379.1	379.5	379.9	380.3	380.3	380.0	379.7	379.4	379.1	378.2
115°	438.6	438.8	439.0	439.2	439.5	439.7	439.9	440.1	440.4	440.6	440.1
117.5°	497.1	498.0	498.9	499.7	500.6	501.0	500.8	500.6	500.5	500.3	499.9
120°	537.3	538.3	539.2	540.1	541.0	541.4	541.4	541.4	541.4	541.4	541.2
122.5°	577.7	578.5	579.2	579.9	580.6	581.0	581.2	581.4	581.6	581.7	581.2
125°	638.2	638.4	638.6	638.8	639.0	639.4	639.9	640.4	640.8	641.3	641.0
127.5°	696.3	696.7	697.1	697.6	698.0	698.4	698.6	698.8	699.0	699.3	699.0
130°	735.0	735.4	735.9	736.3	736.8	737.1	737.3	737.5	737.8	738.0	737.5
132.5°	771.2	771.9	772.5	773.2	773.8	774.2	774.5	774.7	774.9	775.1	775.2
135°	827.7	828.6	829.5	830.4	831.3	831.7	831.7	831.7	831.7	831.7	831.5
137.5°	883.0	884.1	885.2	886.4	887.5	887.9	887.6	887.4	887.1	886.8	886.4
140°	918.5	919.6	920.7	921.8	922.9	923.3	922.8	922.4	921.9	921.5	920.8
142.5°	952.3	953.5	954.6	955.7	956.8	957.3	956.9	956.7	956.4	956.1	955.3
145°	1003.2	1003.8	1004.5	1005.2	1005.8	1006.2	1006.2	1006.2	1006.2	1006.2	1005.5
147.5°	1046.5	1048.0	1049.6	1051.1	1052.6	1053.1	1052.6	1052.0	1051.5	1051.0	1050.4
150°	1078.7	1079.2	1079.6	1080.2	1080.6	1080.8	1080.8	1080.8	1080.8	1080.8	1079.8
152.5°	1105.4	1106.2	1107.0	1107.8	1108.6	1108.7	1108.2	1107.7	1107.1	1106.6	1106.2
155°	1143.3	1144.4	1145.5	1146.7	1147.8	1147.9	1147.0	1146.1	1145.2	1144.3	1144.1
157.5°	1175.0	1176.4	1177.9	1179.4	1180.8	1181.1	1180.2	1179.3	1178.5	1177.6	1177.4
160°	1196.7	1197.9	1199.0	1200.1	1201.2	1201.3	1200.4	1199.5	1198.6	1197.7	1197.5
162.5°	1215.3	1216.6	1217.9	1219.2	1220.5	1220.6	1219.5	1218.4	1217.4	1216.3	1216.3
165°	1240.1	1241.4	1242.7	1244.2	1245.5	1245.7	1244.8	1243.9	1243.0	1242.1	1241.8
167.5°	1259.8	1261.2	1262.6	1264.0	1265.4	1265.5	1264.0	1262.7	1261.4	1260.0	1260.0
170°	1270.3	1271.9	1273.4	1275.1	1276.6	1276.7	1275.4	1274.0	1272.7	1271.3	1271.3
172.5°	1279.2	1280.6	1282.0	1283.3	1284.8	1284.8	1283.4	1282.1	1280.7	1279.4	1279.4
175°	1287.5	1289.0	1290.6	1292.2	1293.7	1293.8	1292.5	1291.2	1289.8	1288.5	1288.5
177.5°	1292.3	1293.5	1294.8	1296.1	1297.4	1297.4	1296.4	1295.3	1294.2	1293.1	1293.3
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1908.2	1903.8	1898.7	1890.0	1879.3	1873.6	1864.7	1859.1	1847.8	1838.3	1828.3
5°	2005.0	1984.6	1965.7	1941.3	1914.5	1897.1	1876.7	1853.9	1830.3	1805.8	1779.1
7.5°	2105.4	2069.1	2029.7	1987.4	1946.0	1907.8	1871.5	1835.7	1802.4	1762.1	1728.0
10°	2172.7	2127.1	2078.2	2020.7	1964.9	1916.1	1866.4	1823.2	1779.1	1731.8	1690.1
12.5°	2240.1	2179.3	2110.3	2047.2	1980.0	1921.1	1862.7	1807.5	1752.0	1699.7	1651.1
15°	2287.6	2234.1	2170.3	2080.6	2005.0	1924.0	1846.8	1775.1	1708.3	1650.0	1588.6
17.5°	2319.0	2250.0	2181.5	2095.4	1996.4	1905.7	1818.3	1736.3	1660.8	1587.0	1527.8
20°	2324.6	2253.8	2182.1	2097.9	1996.4	1892.5	1805.0	1706.7	1625.6	1549.2	1476.8
22.5°	2322.8	2242.4	2164.5	2077.8	1978.7	1883.0	1777.4	1677.1	1589.0	1514.0	1438.4
25°	2304.9	2219.2	2121.5	2034.2	1936.5	1835.0	1728.0	1624.1	1534.3	1448.4	1373.7
27.5°	2290.2	2178.9	2068.3	1966.4	1872.2	1779.1	1676.6	1570.1	1470.7	1383.7	1313.2
30°	2271.9	2149.9	2025.5	1919.2	1822.4	1731.8	1635.1	1531.2	1427.2	1342.2	1266.7
32.5°	2255.5	2113.3	1982.1	1866.3	1763.8	1675.8	1586.5	1487.6	1385.6	1299.4	1223.8
35°	2223.9	2059.3	1908.9	1778.3	1668.9	1578.3	1503.6	1411.5	1317.8	1234.4	1162.0
37.5°	2183.7	1988.5	1827.1	1690.1	1570.1	1474.8	1405.1	1334.4	1244.6	1164.2	1098.6
40°	2152.2	1938.1	1767.3	1627.2	1502.8	1403.6	1339.1	1272.1	1197.4	1122.6	1053.3
42.5°	2112.5	1892.8	1706.9	1556.0	1432.9	1336.3	1268.5	1211.6	1145.7	1076.0	1011.7
45°	2039.6	1810.6	1609.0	1446.9	1322.5	1227.3	1157.2	1114.7	1065.1	999.0	944.6
47.5°	1932.5	1711.8	1503.4	1336.1	1207.7	1119.4	1053.8	1013.0	978.1	928.9	879.6
50°	1837.3	1638.2	1427.2	1261.1	1132.8	1043.8	983.2	946.2	916.4	878.5	836.8
52.5°	1730.9	1545.6	1352.3	1188.1	1061.0	973.3	913.9	881.4	856.5	829.4	788.3
55°	1561.9	1404.4	1224.9	1069.0	951.7	866.0	814.0	785.7	765.2	744.7	719.5
57.5°	1375.5	1252.4	1093.5	951.0	842.9	764.9	716.4	688.8	672.9	662.4	647.5
60°	1244.6	1139.1	1002.1	872.2	766.8	697.5	650.3	628.9	615.6	606.9	595.9
62.5°	1123.1	1036.4	909.6	791.0	698.7	633.2	591.1	570.4	557.6	553.4	544.3
65°	943.8	877.0	772.2	673.9	595.1	539.3	503.8	484.1	476.3	471.5	472.3
67.5°	767.4	726.6	642.5	558.6	495.7	448.9	420.5	405.5	401.5	395.2	395.1
70°	659.6	628.9	558.2	484.9	429.0	392.8	367.6	351.8	347.9	344.8	344.1
72.5°	564.6	537.7	476.3	417.6	367.3	335.5	314.8	305.3	298.8	296.9	296.8
75°	424.3	409.4	360.5	314.1	279.4	257.4	243.3	234.6	229.8	229.0	229.8
77.5°	301.6	288.6	257.6	224.7	202.8	186.1	174.1	171.2	165.8	165.9	165.1
80°	226.7	218.0	198.3	172.4	154.3	140.2	133.8	128.4	126.7	124.4	126.7
82.5°	164.4	155.1	141.7	125.1	110.2	101.7	95.4	93.7	92.7	91.6	92.1
85°	81.1	81.9	74.0	61.4	55.1	50.4	46.5	46.5	45.6	44.8	45.6
87.5°	30.3	28.8	25.9	23.6	20.2	17.9	17.0	17.2	15.7	15.5	16.4
90°	13.0	11.4	9.9	8.2	6.4	4.5	2.8	1.0	2.8	4.5	6.4
92.5°	34.8	32.9	31.0	29.4	28.2	26.9	25.7	24.4	25.7	26.9	28.2
95°	73.1	70.9	68.7	67.4	66.9	66.4	65.9	65.5	65.9	66.4	66.9
97.5°	117.4	114.3	111.3	109.6	109.5	109.3	109.1	108.9	109.1	109.3	109.5
100°	148.5	145.5	142.6	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
102.5°	183.6	182.1	180.6	179.5	178.5	177.6	176.7	175.8	176.7	177.6	178.5
105°	238.2	236.9	235.6	234.4	233.3	232.1	231.0	229.8	231.0	232.1	233.3
107.5°	297.2	296.1	295.1	294.1	293.0	291.8	290.6	289.5	290.6	291.8	293.0
110°	337.4	336.7	336.1	335.2	334.1	333.0	331.8	330.7	331.8	333.0	334.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	377.4	376.6	375.7	375.0	374.4	373.8	373.2	372.6	373.2	373.8	374.4
115°	439.7	439.2	438.8	438.1	437.3	436.4	435.5	434.5	435.5	436.4	437.3
117.5°	499.5	499.1	498.7	498.3	497.9	497.5	497.1	496.7	497.1	497.5	497.9
120°	541.0	540.7	540.5	539.9	538.8	537.6	536.4	535.3	536.4	537.6	538.8
122.5°	580.6	580.0	579.4	579.0	578.6	578.1	577.7	577.3	577.7	578.1	578.6
125°	640.8	640.6	640.4	639.5	638.2	636.8	635.5	634.2	635.5	636.8	638.2
127.5°	698.7	698.5	698.2	697.7	696.9	696.2	695.4	694.7	695.4	696.2	696.9
130°	737.1	736.7	736.2	735.4	734.3	733.2	732.1	730.9	732.1	733.2	734.3
132.5°	775.3	775.4	775.5	774.6	772.7	770.9	769.1	767.2	769.1	770.9	772.7
135°	831.3	831.1	830.9	830.1	828.7	827.4	826.1	824.8	826.1	827.4	828.7
137.5°	885.9	885.3	884.8	883.9	882.6	881.3	880.0	878.8	880.0	881.3	882.6
140°	920.2	919.5	918.8	917.9	916.8	915.6	914.5	913.4	914.5	915.6	916.8
142.5°	954.5	953.6	952.8	951.9	950.9	950.0	949.1	948.1	949.1	950.0	950.9
145°	1004.8	1004.2	1003.5	1002.7	1001.8	1000.9	1000.1	999.2	1000.1	1000.9	1001.8
147.5°	1049.9	1049.4	1048.8	1048.2	1047.8	1047.3	1046.8	1046.3	1046.8	1047.3	1047.8
150°	1079.0	1078.1	1077.2	1076.9	1077.1	1077.3	1077.5	1077.7	1077.5	1077.3	1077.1
152.5°	1105.9	1105.5	1105.2	1104.8	1104.5	1104.2	1103.9	1103.6	1103.9	1104.2	1104.5
155°	1143.9	1143.7	1143.4	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3
157.5°	1177.1	1176.9	1176.7	1176.8	1177.3	1177.8	1178.3	1178.8	1178.3	1177.8	1177.3
160°	1197.3	1197.1	1196.9	1197.1	1197.7	1198.4	1199.1	1199.7	1199.1	1198.4	1197.7
162.5°	1216.2	1216.2	1216.1	1216.4	1216.8	1217.3	1217.8	1218.3	1217.8	1217.3	1216.8
165°	1241.6	1241.4	1241.2	1241.3	1241.7	1242.2	1242.6	1243.1	1242.6	1242.2	1241.7
167.5°	1260.0	1260.0	1260.0	1260.5	1261.4	1262.3	1263.1	1264.0	1263.1	1262.3	1261.4
170°	1271.3	1271.3	1271.3	1271.8	1272.7	1273.5	1274.4	1275.4	1274.4	1273.5	1272.7
172.5°	1279.4	1279.4	1279.4	1279.9	1280.7	1281.6	1282.5	1283.4	1282.5	1281.6	1280.7
175°	1288.5	1288.5	1288.5	1288.9	1289.8	1290.7	1291.6	1292.5	1291.6	1290.7	1289.8
177.5°	1293.4	1293.6	1293.8	1294.2	1294.9	1295.8	1296.5	1297.2	1296.5	1295.8	1294.9
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1822.5	1815.6	1810.0	1797.4	1790.4	1781.0	1773.4	1781.6	1772.8	1776.6	1770.9
5°	1765.7	1743.6	1728.0	1705.1	1685.5	1667.3	1654.0	1651.5	1645.3	1642.1	1632.6
7.5°	1697.4	1669.8	1642.7	1612.9	1587.6	1562.0	1545.6	1532.1	1523.1	1511.3	1503.3
10°	1657.1	1620.1	1588.6	1552.4	1520.9	1493.4	1471.3	1460.3	1450.1	1435.1	1429.6
12.5°	1607.3	1569.0	1530.7	1492.0	1461.7	1431.0	1412.1	1395.4	1388.4	1371.5	1369.8
15°	1547.6	1490.2	1452.4	1413.0	1371.3	1346.2	1330.4	1312.3	1304.4	1292.6	1283.9
17.5°	1476.5	1425.1	1378.0	1337.2	1301.4	1280.2	1260.6	1248.2	1234.7	1227.0	1212.7
20°	1424.8	1376.0	1328.8	1285.6	1258.0	1233.6	1217.8	1206.0	1191.8	1187.9	1173.8
22.5°	1381.4	1327.6	1282.2	1245.9	1215.8	1188.2	1171.2	1163.2	1153.5	1141.3	1138.4
25°	1310.7	1254.9	1216.3	1180.0	1153.3	1128.1	1116.3	1106.0	1096.6	1087.9	1084.8
27.5°	1249.6	1199.7	1153.9	1121.2	1097.8	1074.9	1064.5	1052.1	1045.1	1038.1	1029.7
30°	1206.8	1155.6	1115.5	1084.0	1058.8	1038.3	1027.3	1018.7	1012.4	1006.0	1001.4
32.5°	1162.8	1115.3	1076.4	1045.6	1020.4	1004.9	995.2	989.1	982.1	974.5	968.6
35°	1104.5	1052.5	1014.7	988.0	968.3	956.4	945.4	939.9	932.1	932.1	925.7
37.5°	1038.8	993.9	960.6	936.1	918.5	908.0	896.1	892.2	887.2	883.8	881.7
40°	999.8	958.1	926.6	902.1	883.2	874.5	865.2	858.9	855.7	851.7	850.2
42.5°	959.5	919.6	889.4	866.9	850.5	843.1	834.2	829.9	823.5	818.4	817.5
45°	898.2	859.6	832.1	814.0	799.8	791.1	785.7	776.2	773.1	766.8	766.0
47.5°	840.1	803.1	776.1	761.2	748.8	741.7	733.1	723.6	720.0	716.8	716.5
50°	796.7	762.9	737.6	723.5	711.7	701.5	692.8	686.4	684.1	684.1	685.7
52.5°	752.6	723.8	702.4	685.0	673.9	663.0	655.0	651.2	647.5	651.4	654.2
55°	688.0	658.9	643.2	626.6	615.6	603.0	599.1	597.5	595.1	601.5	604.6
57.5°	619.7	599.3	580.8	564.4	554.5	547.2	541.9	541.0	545.4	548.4	558.6
60°	576.2	552.6	536.1	523.5	511.7	507.0	505.4	503.8	507.0	515.6	529.0
62.5°	528.4	509.2	491.4	481.9	473.2	465.4	465.0	466.1	472.3	482.2	495.6
65°	458.2	441.6	429.8	418.8	411.7	407.0	408.6	411.7	418.8	432.2	447.2
67.5°	386.9	375.5	365.0	356.0	349.2	349.2	350.8	355.5	363.9	379.3	392.9
70°	340.8	328.3	319.6	315.7	310.1	307.0	311.7	319.6	326.7	340.8	352.6
72.5°	294.9	284.2	277.4	274.8	272.4	269.8	271.5	279.9	289.5	303.7	317.4
75°	226.7	222.8	218.0	214.9	212.6	214.1	215.7	223.6	231.5	246.4	262.2
77.5°	165.5	161.4	158.5	157.7	156.5	157.2	161.7	167.5	175.2	186.1	198.0
80°	125.1	123.6	122.0	121.2	121.2	122.0	128.4	132.3	139.4	149.6	159.1
82.5°	91.2	90.2	89.9	89.8	90.4	90.5	94.3	99.5	105.3	113.0	121.2
85°	48.1	46.5	48.8	49.6	48.1	50.4	51.9	55.1	57.5	61.4	65.3
87.5°	17.4	19.0	18.7	19.6	19.9	21.5	21.1	23.8	25.3	26.8	26.4
90°	8.2	9.9	11.4	13.0	14.5	16.2	17.3	18.4	19.5	20.6	21.5
92.5°	29.4	31.0	32.9	34.8	36.8	38.7	40.2	41.7	43.1	44.6	45.6
95°	67.4	68.7	70.9	73.1	75.4	77.7	79.2	80.8	82.3	83.9	84.9
97.5°	109.6	111.3	114.3	117.4	120.5	123.6	125.1	126.5	128.1	129.6	130.4
100°	141.2	142.6	145.5	148.5	151.4	154.2	156.2	158.2	160.3	162.3	163.6
102.5°	179.5	180.6	182.1	183.6	185.0	186.5	188.7	190.9	193.1	195.3	196.7
105°	234.4	235.6	236.9	238.2	239.6	241.0	242.3	243.7	245.0	246.3	247.3
107.5°	294.1	295.1	296.1	297.2	298.2	299.2	299.9	300.5	301.2	301.9	302.3
110°	335.2	336.1	336.7	337.4	338.1	338.7	339.4	340.1	340.7	341.4	341.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	375.0	375.7	376.6	377.4	378.2	379.1	379.4	379.7	380.0	380.3	380.3
115°	438.1	438.8	439.2	439.7	440.1	440.6	440.4	440.1	439.9	439.7	439.5
117.5°	498.3	498.7	499.1	499.5	499.9	500.3	500.5	500.6	500.8	501.0	500.6
120°	539.9	540.5	540.7	541.0	541.2	541.4	541.4	541.4	541.4	541.4	541.0
122.5°	579.0	579.4	580.0	580.6	581.2	581.7	581.6	581.4	581.2	581.0	580.6
125°	639.5	640.4	640.6	640.8	641.0	641.3	640.8	640.4	639.9	639.4	639.0
127.5°	697.7	698.2	698.5	698.7	699.0	699.3	699.0	698.8	698.6	698.4	698.0
130°	735.4	736.2	736.7	737.1	737.5	738.0	737.8	737.5	737.3	737.1	736.8
132.5°	774.6	775.5	775.4	775.3	775.2	775.1	774.9	774.7	774.5	774.2	773.8
135°	830.1	830.9	831.1	831.3	831.5	831.7	831.7	831.7	831.7	831.7	831.3
137.5°	883.9	884.8	885.3	885.9	886.4	886.8	887.1	887.4	887.6	887.9	887.5
140°	917.9	918.8	919.5	920.2	920.8	921.5	921.9	922.4	922.8	923.3	922.9
142.5°	951.9	952.8	953.6	954.5	955.3	956.1	956.4	956.7	956.9	957.3	956.8
145°	1002.7	1003.5	1004.2	1004.8	1005.5	1006.2	1006.2	1006.2	1006.2	1006.2	1005.8
147.5°	1048.2	1048.8	1049.4	1049.9	1050.4	1051.0	1051.5	1052.0	1052.6	1053.1	1052.6
150°	1076.9	1077.2	1078.1	1079.0	1079.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.6
152.5°	1104.8	1105.2	1105.5	1105.9	1106.2	1106.6	1107.1	1107.7	1108.2	1108.7	1108.6
155°	1143.3	1143.4	1143.7	1143.9	1144.1	1144.3	1145.2	1146.1	1147.0	1147.9	1147.8
157.5°	1176.8	1176.7	1176.9	1177.1	1177.4	1177.6	1178.5	1179.3	1180.2	1181.1	1180.8
160°	1197.1	1196.9	1197.1	1197.3	1197.5	1197.7	1198.6	1199.5	1200.4	1201.3	1201.2
162.5°	1216.4	1216.1	1216.2	1216.2	1216.3	1216.3	1217.4	1218.4	1219.5	1220.6	1220.5
165°	1241.3	1241.2	1241.4	1241.6	1241.8	1242.1	1243.0	1243.9	1244.8	1245.7	1245.5
167.5°	1260.5	1260.0	1260.0	1260.0	1260.0	1260.0	1261.4	1262.7	1264.0	1265.5	1265.4
170°	1271.8	1271.3	1271.3	1271.3	1271.3	1271.3	1272.7	1274.0	1275.4	1276.7	1276.6
172.5°	1279.9	1279.4	1279.4	1279.4	1279.4	1279.4	1280.7	1282.1	1283.4	1284.8	1284.8
175°	1288.9	1288.5	1288.5	1288.5	1288.5	1288.5	1289.8	1291.2	1292.5	1293.8	1293.7
177.5°	1294.2	1293.8	1293.6	1293.4	1293.3	1293.1	1294.2	1295.3	1296.4	1297.4	1297.4
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1767.2	1771.5	1767.8	1772.8	1767.8	1771.5	1767.2	1770.9	1776.6	1772.8	1781.6
5°	1628.7	1621.6	1626.4	1623.3	1626.4	1621.6	1628.7	1632.6	1642.1	1645.3	1651.5
7.5°	1500.9	1494.1	1486.4	1482.8	1486.4	1494.1	1500.9	1503.3	1511.3	1523.1	1532.1
10°	1420.9	1412.3	1411.5	1405.9	1411.5	1412.3	1420.9	1429.6	1435.1	1450.1	1460.3
12.5°	1362.3	1354.3	1345.3	1343.0	1345.3	1354.3	1362.3	1369.8	1371.5	1388.4	1395.4
15°	1279.2	1272.9	1267.4	1272.1	1267.4	1272.9	1279.2	1283.9	1292.6	1304.4	1312.3
17.5°	1210.1	1204.9	1204.0	1198.1	1204.0	1204.9	1210.1	1212.7	1227.0	1234.7	1248.2
20°	1166.7	1162.8	1164.3	1154.1	1164.3	1162.8	1166.7	1173.8	1187.9	1191.8	1206.0
22.5°	1132.1	1124.3	1123.4	1121.4	1123.4	1124.3	1132.1	1138.4	1141.3	1153.5	1163.2
25°	1077.7	1073.8	1069.9	1073.8	1069.9	1073.8	1077.7	1084.8	1087.9	1096.6	1106.0
27.5°	1030.3	1025.6	1024.5	1024.9	1024.5	1025.6	1030.3	1029.7	1038.1	1045.1	1052.1
30°	1001.4	993.5	994.2	993.5	994.2	993.5	1001.4	1001.4	1006.0	1012.4	1018.7
32.5°	969.9	964.5	963.4	962.0	963.4	964.5	969.9	968.6	974.5	982.1	989.1
35°	923.4	923.4	919.5	919.5	919.5	923.4	923.4	925.7	932.1	932.1	939.9
37.5°	879.8	879.0	876.7	877.0	876.7	879.0	879.8	881.7	883.8	887.2	892.2
40°	847.1	846.3	843.8	839.2	843.8	846.3	847.1	850.2	851.7	855.7	858.9
42.5°	815.6	812.8	811.7	810.2	811.7	812.8	815.6	817.5	818.4	823.5	829.9
45°	766.0	766.0	764.4	763.6	764.4	766.0	766.0	766.0	766.8	773.1	776.2
47.5°	717.8	719.2	722.2	721.8	722.2	719.2	717.8	716.5	716.8	720.0	723.6
50°	688.8	689.6	692.0	692.8	692.0	689.6	688.8	685.7	684.1	684.1	686.4
52.5°	656.7	661.3	664.3	663.8	664.3	661.3	656.7	654.2	651.4	647.5	651.2
55°	611.7	617.1	622.7	623.5	622.7	617.1	611.7	604.6	601.5	595.1	597.5
57.5°	567.1	574.8	580.7	582.5	580.7	574.8	567.1	558.6	548.4	545.4	541.0
60°	536.8	547.1	554.2	557.3	554.2	547.1	536.8	529.0	515.6	507.0	503.8
62.5°	507.9	519.4	526.4	527.1	526.4	519.4	507.9	495.6	482.2	472.3	466.1
65°	460.5	472.3	478.6	483.3	478.6	472.3	460.5	447.2	432.2	418.8	411.7
67.5°	409.5	421.3	428.3	432.0	428.3	421.3	409.5	392.9	379.3	363.9	355.5
70°	372.3	384.2	393.6	396.8	393.6	384.2	372.3	352.6	340.8	326.7	319.6
72.5°	335.8	346.4	354.0	357.7	354.0	346.4	335.8	317.4	303.7	289.5	279.9
75°	272.4	286.5	293.7	297.6	293.7	286.5	272.4	262.2	246.4	231.5	223.6
77.5°	210.1	223.0	227.2	229.2	227.2	223.0	210.1	198.0	186.1	175.2	167.5
80°	168.4	176.3	181.9	182.6	181.9	176.3	168.4	159.1	149.6	139.4	132.3
82.5°	129.5	136.0	137.7	139.8	137.7	136.0	129.5	121.2	113.0	105.3	99.5
85°	70.9	74.0	74.8	74.0	74.8	74.0	70.9	65.3	61.4	57.5	55.1
87.5°	27.8	27.3	27.4	28.8	27.4	27.3	27.8	26.4	26.8	25.3	23.8
90°	22.2	22.8	23.5	24.2	23.5	22.8	22.2	21.5	20.6	19.5	18.4
92.5°	46.2	46.6	47.1	47.6	47.1	46.6	46.2	45.6	44.6	43.1	41.7
95°	85.3	85.8	86.2	86.7	86.2	85.8	85.3	84.9	83.9	82.3	80.8
97.5°	130.7	131.0	131.2	131.5	131.2	131.0	130.7	130.4	129.6	128.1	126.5
100°	164.0	164.4	164.9	165.3	164.9	164.4	164.0	163.6	162.3	160.3	158.2
102.5°	197.3	197.9	198.6	199.2	198.6	197.9	197.3	196.7	195.3	193.1	190.9
105°	248.0	248.7	249.3	250.0	249.3	248.7	248.0	247.3	246.3	245.0	243.7
107.5°	302.2	302.2	302.2	302.1	302.2	302.2	302.2	302.3	301.9	301.2	300.5
110°	341.4	341.2	341.0	340.7	341.0	341.2	341.4	341.6	341.4	340.7	340.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	379.9	379.5	379.1	378.7	379.1	379.5	379.9	380.3	380.3	380.0	379.7
115°	439.2	439.0	438.8	438.6	438.8	439.0	439.2	439.5	439.7	439.9	440.1
117.5°	499.7	498.9	498.0	497.1	498.0	498.9	499.7	500.6	501.0	500.8	500.6
120°	540.1	539.2	538.3	537.3	538.3	539.2	540.1	541.0	541.4	541.4	541.4
122.5°	579.9	579.2	578.5	577.7	578.5	579.2	579.9	580.6	581.0	581.2	581.4
125°	638.8	638.6	638.4	638.2	638.4	638.6	638.8	639.0	639.4	639.9	640.4
127.5°	697.6	697.1	696.7	696.3	696.7	697.1	697.6	698.0	698.4	698.6	698.8
130°	736.3	735.9	735.4	735.0	735.4	735.9	736.3	736.8	737.1	737.3	737.5
132.5°	773.2	772.5	771.9	771.2	771.9	772.5	773.2	773.8	774.2	774.5	774.7
135°	830.4	829.5	828.6	827.7	828.6	829.5	830.4	831.3	831.7	831.7	831.7
137.5°	886.4	885.2	884.1	883.0	884.1	885.2	886.4	887.5	887.9	887.6	887.4
140°	921.8	920.7	919.6	918.5	919.6	920.7	921.8	922.9	923.3	922.8	922.4
142.5°	955.7	954.6	953.5	952.3	953.5	954.6	955.7	956.8	957.3	956.9	956.7
145°	1005.2	1004.5	1003.8	1003.2	1003.8	1004.5	1005.2	1005.8	1006.2	1006.2	1006.2
147.5°	1051.1	1049.6	1048.0	1046.5	1048.0	1049.6	1051.1	1052.6	1053.1	1052.6	1052.0
150°	1080.2	1079.6	1079.2	1078.7	1079.2	1079.6	1080.2	1080.6	1080.8	1080.8	1080.8
152.5°	1107.8	1107.0	1106.2	1105.4	1106.2	1107.0	1107.8	1108.6	1108.7	1108.2	1107.7
155°	1146.7	1145.5	1144.4	1143.3	1144.4	1145.5	1146.7	1147.8	1147.9	1147.0	1146.1
157.5°	1179.4	1177.9	1176.4	1175.0	1176.4	1177.9	1179.4	1180.8	1181.1	1180.2	1179.3
160°	1200.1	1199.0	1197.9	1196.7	1197.9	1199.0	1200.1	1201.2	1201.3	1200.4	1199.5
162.5°	1219.2	1217.9	1216.6	1215.3	1216.6	1217.9	1219.2	1220.5	1220.6	1219.5	1218.4
165°	1244.2	1242.7	1241.4	1240.1	1241.4	1242.7	1244.2	1245.5	1245.7	1244.8	1243.9
167.5°	1264.0	1262.6	1261.2	1259.8	1261.2	1262.6	1264.0	1265.4	1265.5	1264.0	1262.7
170°	1275.1	1273.4	1271.9	1270.3	1271.9	1273.4	1275.1	1276.6	1276.7	1275.4	1274.0
172.5°	1283.3	1282.0	1280.6	1279.2	1280.6	1282.0	1283.3	1284.8	1284.8	1283.4	1282.1
175°	1292.2	1290.6	1289.0	1287.5	1289.0	1290.6	1292.2	1293.7	1293.8	1292.5	1291.2
177.5°	1296.1	1294.8	1293.5	1292.3	1293.5	1294.8	1296.1	1297.4	1297.4	1296.4	1295.3
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1773.4	1781.0	1790.4	1797.4	1810.0	1815.6	1822.5	1828.3	1838.3	1847.8	1859.1
5°	1654.0	1667.3	1685.5	1705.1	1728.0	1743.6	1765.7	1779.1	1805.8	1830.3	1853.9
7.5°	1545.6	1562.0	1587.6	1612.9	1642.7	1669.8	1697.4	1728.0	1762.1	1802.4	1835.7
10°	1471.3	1493.4	1520.9	1552.4	1588.6	1620.1	1657.1	1690.1	1731.8	1779.1	1823.2
12.5°	1412.1	1431.0	1461.7	1492.0	1530.7	1569.0	1607.3	1651.1	1699.7	1752.0	1807.5
15°	1330.4	1346.2	1371.3	1413.0	1452.4	1490.2	1547.6	1588.6	1650.0	1708.3	1775.1
17.5°	1260.6	1280.2	1301.4	1337.2	1378.0	1425.1	1476.5	1527.8	1587.0	1660.8	1736.3
20°	1217.8	1233.6	1258.0	1285.6	1328.8	1376.0	1424.8	1476.8	1549.2	1625.6	1706.7
22.5°	1171.2	1188.2	1215.8	1245.9	1282.2	1327.6	1381.4	1438.4	1514.0	1589.0	1677.1
25°	1116.3	1128.1	1153.3	1180.0	1216.3	1254.9	1310.7	1373.7	1448.4	1534.3	1624.1
27.5°	1064.5	1074.9	1097.8	1121.2	1153.9	1199.7	1249.6	1313.2	1383.7	1470.7	1570.1
30°	1027.3	1038.3	1058.8	1084.0	1115.5	1155.6	1206.8	1266.7	1342.2	1427.2	1531.2
32.5°	995.2	1004.9	1020.4	1045.6	1076.4	1115.3	1162.8	1223.8	1299.4	1385.6	1487.6
35°	945.4	956.4	968.3	988.0	1014.7	1052.5	1104.5	1162.0	1234.4	1317.8	1411.5
37.5°	896.1	908.0	918.5	936.1	960.6	993.9	1038.8	1098.6	1164.2	1244.6	1334.4
40°	865.2	874.5	883.2	902.1	926.6	958.1	999.8	1053.3	1122.6	1197.4	1272.1
42.5°	834.2	843.1	850.5	866.9	889.4	919.6	959.5	1011.7	1076.0	1145.7	1211.6
45°	785.7	791.1	799.8	814.0	832.1	859.6	898.2	944.6	999.0	1065.1	1114.7
47.5°	733.1	741.7	748.8	761.2	776.1	803.1	840.1	879.6	928.9	978.1	1013.0
50°	692.8	701.5	711.7	723.5	737.6	762.9	796.7	836.8	878.5	916.4	946.2
52.5°	655.0	663.0	673.9	685.0	702.4	723.8	752.6	788.3	829.4	856.5	881.4
55°	599.1	603.0	615.6	626.6	643.2	658.9	688.0	719.5	744.7	765.2	785.7
57.5°	541.9	547.2	554.5	564.4	580.8	599.3	619.7	647.5	662.4	672.9	688.8
60°	505.4	507.0	511.7	523.5	536.1	552.6	576.2	595.9	606.9	615.6	628.9
62.5°	465.0	465.4	473.2	481.9	491.4	509.2	528.4	544.3	553.4	557.6	570.4
65°	408.6	407.0	411.7	418.8	429.8	441.6	458.2	472.3	471.5	476.3	484.1
67.5°	350.8	349.2	349.2	356.0	365.0	375.5	386.9	395.1	395.2	401.5	405.5
70°	311.7	307.0	310.1	315.7	319.6	328.3	340.8	344.1	344.8	347.9	351.8
72.5°	271.5	269.8	272.4	274.8	277.4	284.2	294.9	296.8	296.9	298.8	305.3
75°	215.7	214.1	212.6	214.9	218.0	222.8	226.7	229.8	229.0	229.8	234.6
77.5°	161.7	157.2	156.5	157.7	158.5	161.4	165.5	165.1	165.9	165.8	171.2
80°	128.4	122.0	121.2	121.2	122.0	123.6	125.1	126.7	124.4	126.7	128.4
82.5°	94.3	90.5	90.4	89.8	89.9	90.2	91.2	92.1	91.6	92.7	93.7
85°	51.9	50.4	48.1	49.6	48.8	46.5	48.1	45.6	44.8	45.6	46.5
87.5°	21.1	21.5	19.9	19.6	18.7	19.0	17.4	16.4	15.5	15.7	17.2
90°	17.3	16.2	14.5	13.0	11.4	9.9	8.2	6.4	4.5	2.8	1.0
92.5°	40.2	38.7	36.8	34.8	32.9	31.0	29.4	28.2	26.9	25.7	24.4
95°	79.2	77.7	75.4	73.1	70.9	68.7	67.4	66.9	66.4	65.9	65.5
97.5°	125.1	123.6	120.5	117.4	114.3	111.3	109.6	109.5	109.3	109.1	108.9
100°	156.2	154.2	151.4	148.5	145.5	142.6	141.2	141.2	141.2	141.2	141.2
102.5°	188.7	186.5	185.0	183.6	182.1	180.6	179.5	178.5	177.6	176.7	175.8
105°	242.3	241.0	239.6	238.2	236.9	235.6	234.4	233.3	232.1	231.0	229.8
107.5°	299.9	299.2	298.2	297.2	296.1	295.1	294.1	293.0	291.8	290.6	289.5
110°	339.4	338.7	338.1	337.4	336.7	336.1	335.2	334.1	333.0	331.8	330.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	379.4	379.1	378.2	377.4	376.6	375.7	375.0	374.4	373.8	373.2	372.6
115°	440.4	440.6	440.1	439.7	439.2	438.8	438.1	437.3	436.4	435.5	434.5
117.5°	500.5	500.3	499.9	499.5	499.1	498.7	498.3	497.9	497.5	497.1	496.7
120°	541.4	541.4	541.2	541.0	540.7	540.5	539.9	538.8	537.6	536.4	535.3
122.5°	581.6	581.7	581.2	580.6	580.0	579.4	579.0	578.6	578.1	577.7	577.3
125°	640.8	641.3	641.0	640.8	640.6	640.4	639.5	638.2	636.8	635.5	634.2
127.5°	699.0	699.3	699.0	698.7	698.5	698.2	697.7	696.9	696.2	695.4	694.7
130°	737.8	738.0	737.5	737.1	736.7	736.2	735.4	734.3	733.2	732.1	730.9
132.5°	774.9	775.1	775.2	775.3	775.4	775.5	774.6	772.7	770.9	769.1	767.2
135°	831.7	831.7	831.5	831.3	831.1	830.9	830.1	828.7	827.4	826.1	824.8
137.5°	887.1	886.8	886.4	885.9	885.3	884.8	883.9	882.6	881.3	880.0	878.8
140°	921.9	921.5	920.8	920.2	919.5	918.8	917.9	916.8	915.6	914.5	913.4
142.5°	956.4	956.1	955.3	954.5	953.6	952.8	951.9	950.9	950.0	949.1	948.1
145°	1006.2	1006.2	1005.5	1004.8	1004.2	1003.5	1002.7	1001.8	1000.9	1000.1	999.2
147.5°	1051.5	1051.0	1050.4	1049.9	1049.4	1048.8	1048.2	1047.8	1047.3	1046.8	1046.3
150°	1080.8	1080.8	1079.8	1079.0	1078.1	1077.2	1076.9	1077.1	1077.3	1077.5	1077.7
152.5°	1107.1	1106.6	1106.2	1105.9	1105.5	1105.2	1104.8	1104.5	1104.2	1103.9	1103.6
155°	1145.2	1144.3	1144.1	1143.9	1143.7	1143.4	1143.3	1143.3	1143.3	1143.3	1143.3
157.5°	1178.5	1177.6	1177.4	1177.1	1176.9	1176.7	1176.8	1177.3	1177.8	1178.3	1178.8
160°	1198.6	1197.7	1197.5	1197.3	1197.1	1196.9	1197.1	1197.7	1198.4	1199.1	1199.7
162.5°	1217.4	1216.3	1216.3	1216.2	1216.2	1216.1	1216.4	1216.8	1217.3	1217.8	1218.3
165°	1243.0	1242.1	1241.8	1241.6	1241.4	1241.2	1241.3	1241.7	1242.2	1242.6	1243.1
167.5°	1261.4	1260.0	1260.0	1260.0	1260.0	1260.0	1260.5	1261.4	1262.3	1263.1	1264.0
170°	1272.7	1271.3	1271.3	1271.3	1271.3	1271.3	1271.8	1272.7	1273.5	1274.4	1275.4
172.5°	1280.7	1279.4	1279.4	1279.4	1279.4	1279.4	1279.9	1280.7	1281.6	1282.5	1283.4
175°	1289.8	1288.5	1288.5	1288.5	1288.5	1288.5	1288.9	1289.8	1290.7	1291.6	1292.5
177.5°	1294.2	1293.1	1293.3	1293.4	1293.6	1293.8	1294.2	1294.9	1295.8	1296.5	1297.2
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1864.7	1873.6	1879.3	1890.0	1898.7	1903.8	1908.2	1912.0	1916.4	1920.2	1930.9
5°	1876.7	1897.1	1914.5	1941.3	1965.7	1984.6	2005.0	2023.2	2038.1	2059.3	2075.9
7.5°	1871.5	1907.8	1946.0	1987.4	2029.7	2069.1	2105.4	2139.2	2169.9	2207.1	2239.6
10°	1866.4	1916.1	1964.9	2020.7	2078.2	2127.1	2172.7	2219.2	2253.0	2300.3	2340.4
12.5°	1862.7	1921.1	1980.0	2047.2	2110.3	2179.3	2240.1	2273.9	2325.4	2363.2	2411.0
15°	1846.8	1924.0	2005.0	2080.6	2170.3	2234.1	2287.6	2353.8	2401.8	2449.8	2501.7
17.5°	1818.3	1905.7	1996.4	2095.4	2181.5	2250.0	2319.0	2382.8	2440.0	2504.5	2569.1
20°	1805.0	1892.5	1996.4	2097.9	2182.1	2253.8	2324.6	2394.7	2457.7	2540.3	2615.1
22.5°	1777.4	1883.0	1978.7	2077.8	2164.5	2242.4	2322.8	2402.3	2486.0	2579.4	2673.0
25°	1728.0	1835.0	1936.5	2034.2	2121.5	2219.2	2304.9	2411.3	2518.3	2641.9	2758.3
27.5°	1676.6	1779.1	1872.2	1966.4	2068.3	2178.9	2290.2	2410.7	2550.9	2706.9	2871.2
30°	1635.1	1731.8	1822.4	1919.2	2025.5	2149.9	2271.9	2415.2	2577.4	2752.9	2948.1
32.5°	1586.5	1675.8	1763.8	1866.3	1982.1	2113.3	2255.5	2412.7	2607.6	2807.0	3008.0
35°	1503.6	1578.3	1668.9	1778.3	1908.9	2059.3	2223.9	2409.6	2633.2	2862.3	3031.5
37.5°	1405.1	1474.8	1570.1	1690.1	1827.1	1988.5	2183.7	2404.2	2641.6	2824.2	2878.8
40°	1339.1	1403.6	1502.8	1627.2	1767.3	1938.1	2152.2	2385.3	2615.1	2731.6	2686.7
42.5°	1268.5	1336.3	1432.9	1556.0	1706.9	1892.8	2112.5	2345.6	2538.3	2582.3	2427.3
45°	1157.2	1227.3	1322.5	1446.9	1609.0	1810.6	2039.6	2251.4	2362.4	2282.9	2042.9
47.5°	1053.8	1119.4	1207.7	1336.1	1503.4	1711.8	1932.5	2101.4	2110.2	1920.5	1664.1
50°	983.2	1043.8	1132.8	1261.1	1427.2	1638.2	1837.3	1970.3	1910.6	1695.7	1449.3
52.5°	913.9	973.3	1061.0	1188.1	1352.3	1545.6	1730.9	1824.3	1711.5	1491.0	1280.5
55°	814.0	866.0	951.7	1069.0	1224.9	1404.4	1561.9	1594.1	1447.6	1230.4	1059.6
57.5°	716.4	764.9	842.9	951.0	1093.5	1252.4	1375.5	1368.7	1213.9	1027.4	891.9
60°	650.3	697.5	766.8	872.2	1002.1	1139.1	1244.6	1219.4	1065.9	905.3	791.1
62.5°	591.1	633.2	698.7	791.0	909.6	1036.4	1123.1	1085.9	935.5	795.1	704.9
65°	503.8	539.3	595.1	673.9	772.2	877.0	943.8	895.9	767.5	658.1	585.7
67.5°	420.5	448.9	495.7	558.6	642.5	726.6	767.4	719.0	616.4	536.5	482.9
70°	367.6	392.8	429.0	484.9	558.2	628.9	659.6	616.4	528.3	459.7	421.1
72.5°	314.8	335.5	367.3	417.6	476.3	537.7	564.6	523.2	450.8	392.9	356.9
75°	243.3	257.4	279.4	314.1	360.5	409.4	424.3	388.1	341.6	298.3	274.8
77.5°	174.1	186.1	202.8	224.7	257.6	288.6	301.6	280.7	244.8	217.4	198.0
80°	133.8	140.2	154.3	172.4	198.3	218.0	226.7	213.4	188.1	167.6	152.7
82.5°	95.4	101.7	110.2	125.1	141.7	155.1	164.4	155.4	137.1	121.1	112.4
85°	46.5	50.4	55.1	61.4	74.0	81.9	81.1	75.5	68.5	62.2	57.5
87.5°	17.0	17.9	20.2	23.6	25.9	28.8	30.3	29.4	27.2	25.4	23.8
90°	2.8	4.5	6.4	8.2	9.9	11.4	13.0	14.5	16.2	17.3	18.4
92.5°	25.7	26.9	28.2	29.4	31.0	32.9	34.8	36.8	38.7	40.2	41.7
95°	65.9	66.4	66.9	67.4	68.7	70.9	73.1	75.4	77.7	79.2	80.8
97.5°	109.1	109.3	109.5	109.6	111.3	114.3	117.4	120.5	123.6	125.1	126.5
100°	141.2	141.2	141.2	141.2	142.6	145.5	148.5	151.4	154.2	156.2	158.2
102.5°	176.7	177.6	178.5	179.5	180.6	182.1	183.6	185.0	186.5	188.7	190.9
105°	231.0	232.1	233.3	234.4	235.6	236.9	238.2	239.6	241.0	242.3	243.7
107.5°	290.6	291.8	293.0	294.1	295.1	296.1	297.2	298.2	299.2	299.9	300.5
110°	331.8	333.0	334.1	335.2	336.1	336.7	337.4	338.1	338.7	339.4	340.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.2	373.8	374.4	375.0	375.7	376.6	377.4	378.2	379.1	379.4	379.7
115°	435.5	436.4	437.3	438.1	438.8	439.2	439.7	440.1	440.6	440.4	440.1
117.5°	497.1	497.5	497.9	498.3	498.7	499.1	499.5	499.9	500.3	500.5	500.6
120°	536.4	537.6	538.8	539.9	540.5	540.7	541.0	541.2	541.4	541.4	541.4
122.5°	577.7	578.1	578.6	579.0	579.4	580.0	580.6	581.2	581.7	581.6	581.4
125°	635.5	636.8	638.2	639.5	640.4	640.6	640.8	641.0	641.3	640.8	640.4
127.5°	695.4	696.2	696.9	697.7	698.2	698.5	698.7	699.0	699.3	699.0	698.8
130°	732.1	733.2	734.3	735.4	736.2	736.7	737.1	737.5	738.0	737.8	737.5
132.5°	769.1	770.9	772.7	774.6	775.5	775.4	775.3	775.2	775.1	774.9	774.7
135°	826.1	827.4	828.7	830.1	830.9	831.1	831.3	831.5	831.7	831.7	831.7
137.5°	880.0	881.3	882.6	883.9	884.8	885.3	885.9	886.4	886.8	887.1	887.4
140°	914.5	915.6	916.8	917.9	918.8	919.5	920.2	920.8	921.5	921.9	922.4
142.5°	949.1	950.0	950.9	951.9	952.8	953.6	954.5	955.3	956.1	956.4	956.7
145°	1000.1	1000.9	1001.8	1002.7	1003.5	1004.2	1004.8	1005.5	1006.2	1006.2	1006.2
147.5°	1046.8	1047.3	1047.8	1048.2	1048.8	1049.4	1049.9	1050.4	1051.0	1051.5	1052.0
150°	1077.5	1077.3	1077.1	1076.9	1077.2	1078.1	1079.0	1079.8	1080.8	1080.8	1080.8
152.5°	1103.9	1104.2	1104.5	1104.8	1105.2	1105.5	1105.9	1106.2	1106.6	1107.1	1107.7
155°	1143.3	1143.3	1143.3	1143.3	1143.4	1143.7	1143.9	1144.1	1144.3	1145.2	1146.1
157.5°	1178.3	1177.8	1177.3	1176.8	1176.7	1176.9	1177.1	1177.4	1177.6	1178.5	1179.3
160°	1199.1	1198.4	1197.7	1197.1	1196.9	1197.1	1197.3	1197.5	1197.7	1198.6	1199.5
162.5°	1217.8	1217.3	1216.8	1216.4	1216.1	1216.2	1216.2	1216.3	1216.3	1217.4	1218.4
165°	1242.6	1242.2	1241.7	1241.3	1241.2	1241.4	1241.6	1241.8	1242.1	1243.0	1243.9
167.5°	1263.1	1262.3	1261.4	1260.5	1260.0	1260.0	1260.0	1260.0	1260.0	1261.4	1262.7
170°	1274.4	1273.5	1272.7	1271.8	1271.3	1271.3	1271.3	1271.3	1271.3	1272.7	1274.0
172.5°	1282.5	1281.6	1280.7	1279.9	1279.4	1279.4	1279.4	1279.4	1279.4	1280.7	1282.1
175°	1291.6	1290.7	1289.8	1288.9	1288.5	1288.5	1288.5	1288.5	1288.5	1289.8	1291.2
177.5°	1296.5	1295.8	1294.9	1294.2	1293.8	1293.6	1293.4	1293.3	1293.1	1294.2	1295.3
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1939.6	1944.7	1955.4	1951.7	1956.7	1959.2	1961.8
5°	2096.4	2121.5	2132.5	2131.0	2147.5	2143.5	2139.6
7.5°	2273.3	2299.8	2314.6	2333.0	2343.7	2344.5	2353.8
10°	2373.5	2408.1	2422.3	2442.0	2454.6	2461.6	2460.8
12.5°	2450.2	2477.4	2509.1	2518.8	2535.8	2544.8	2541.4
15°	2542.7	2586.0	2619.1	2635.5	2656.9	2663.1	2671.8
17.5°	2625.2	2683.3	2721.9	2773.2	2792.6	2804.4	2797.4
20°	2687.6	2763.9	2802.5	2863.9	2897.7	2915.9	2909.5
22.5°	2761.3	2843.9	2915.2	2968.4	3019.9	3044.3	3049.4
25°	2887.5	3000.8	3105.5	3175.6	3239.3	3254.3	3287.4
27.5°	3028.6	3162.2	3274.2	3347.9	3392.2	3408.9	3419.3
30°	3117.4	3250.4	3334.7	3381.8	3396.1	3394.5	3392.8
32.5°	3160.8	3244.1	3260.3	3247.1	3214.7	3187.2	3158.7
35°	3099.3	3037.1	2944.2	2824.5	2736.3	2647.4	2638.8
37.5°	2787.3	2588.5	2433.9	2261.2	2161.5	2100.0	2057.5
40°	2493.9	2268.0	2080.6	1935.0	1833.4	1793.3	1753.9
42.5°	2175.2	1959.3	1793.4	1671.7	1595.4	1550.8	1519.6
45°	1767.3	1576.8	1446.9	1358.8	1298.1	1263.4	1243.7
47.5°	1448.1	1307.3	1196.9	1133.3	1091.4	1064.5	1064.6
50°	1276.9	1142.3	1069.0	1018.7	982.4	961.2	965.1
52.5°	1125.1	1024.5	962.0	919.8	893.0	879.9	879.5
55°	940.7	868.3	827.4	796.7	778.5	763.6	766.8
57.5°	804.7	743.6	716.2	690.7	678.1	672.2	663.5
60°	720.3	673.1	649.4	628.9	616.4	611.7	603.0
62.5°	645.4	608.2	585.2	568.6	557.1	555.6	548.9
65°	542.4	514.0	493.6	485.7	473.9	470.8	470.8
67.5°	447.2	426.9	410.9	403.6	398.5	399.3	395.5
70°	387.3	370.8	360.5	352.6	348.7	349.5	346.4
72.5°	338.8	320.4	311.4	306.7	301.5	303.6	302.3
75°	256.6	247.2	242.5	237.7	234.6	233.0	231.5
77.5°	188.4	180.2	176.5	173.8	174.3	170.5	173.5
80°	145.6	138.6	136.2	132.3	131.5	131.5	130.7
82.5°	106.5	102.6	100.9	97.7	96.2	97.5	95.4
85°	55.1	51.9	51.2	51.2	49.6	48.1	51.9
87.5°	24.0	21.7	21.9	21.4	21.6	21.1	20.0
90°	19.5	20.6	21.5	22.2	22.8	23.5	24.2
92.5°	43.1	44.6	45.6	46.2	46.6	47.1	47.6
95°	82.3	83.9	84.9	85.3	85.8	86.2	86.7
97.5°	128.1	129.6	130.4	130.7	131.0	131.2	131.5
100°	160.3	162.3	163.6	164.0	164.4	164.9	165.3
102.5°	193.1	195.3	196.7	197.3	197.9	198.6	199.2
105°	245.0	246.3	247.3	248.0	248.7	249.3	250.0
107.5°	301.2	301.9	302.3	302.2	302.2	302.2	302.1
110°	340.7	341.4	341.6	341.4	341.2	341.0	340.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	380.0	380.3	380.3	379.9	379.5	379.1	378.7
115°	439.9	439.7	439.5	439.2	439.0	438.8	438.6
117.5°	500.8	501.0	500.6	499.7	498.9	498.0	497.1
120°	541.4	541.4	541.0	540.1	539.2	538.3	537.3
122.5°	581.2	581.0	580.6	579.9	579.2	578.5	577.7
125°	639.9	639.4	639.0	638.8	638.6	638.4	638.2
127.5°	698.6	698.4	698.0	697.6	697.1	696.7	696.3
130°	737.3	737.1	736.8	736.3	735.9	735.4	735.0
132.5°	774.5	774.2	773.8	773.2	772.5	771.9	771.2
135°	831.7	831.7	831.3	830.4	829.5	828.6	827.7
137.5°	887.6	887.9	887.5	886.4	885.2	884.1	883.0
140°	922.8	923.3	922.9	921.8	920.7	919.6	918.5
142.5°	956.9	957.3	956.8	955.7	954.6	953.5	952.3
145°	1006.2	1006.2	1005.8	1005.2	1004.5	1003.8	1003.2
147.5°	1052.6	1053.1	1052.6	1051.1	1049.6	1048.0	1046.5
150°	1080.8	1080.8	1080.6	1080.2	1079.6	1079.2	1078.7
152.5°	1108.2	1108.7	1108.6	1107.8	1107.0	1106.2	1105.4
155°	1147.0	1147.9	1147.8	1146.7	1145.5	1144.4	1143.3
157.5°	1180.2	1181.1	1180.8	1179.4	1177.9	1176.4	1175.0
160°	1200.4	1201.3	1201.2	1200.1	1199.0	1197.9	1196.7
162.5°	1219.5	1220.6	1220.5	1219.2	1217.9	1216.6	1215.3
165°	1244.8	1245.7	1245.5	1244.2	1242.7	1241.4	1240.1
167.5°	1264.0	1265.5	1265.4	1264.0	1262.6	1261.2	1259.8
170°	1275.4	1276.7	1276.6	1275.1	1273.4	1271.9	1270.3
172.5°	1283.4	1284.8	1284.8	1283.3	1282.0	1280.6	1279.2
175°	1292.5	1293.8	1293.7	1292.2	1290.6	1289.0	1287.5
177.5°	1296.4	1297.4	1297.4	1296.1	1294.8	1293.5	1292.3
180°	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6	1295.6

(END OF REPORT)