

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: P332385-840

Luminaire Tested: **S123RDIP-S1165D1195U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332385-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1165D1195U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

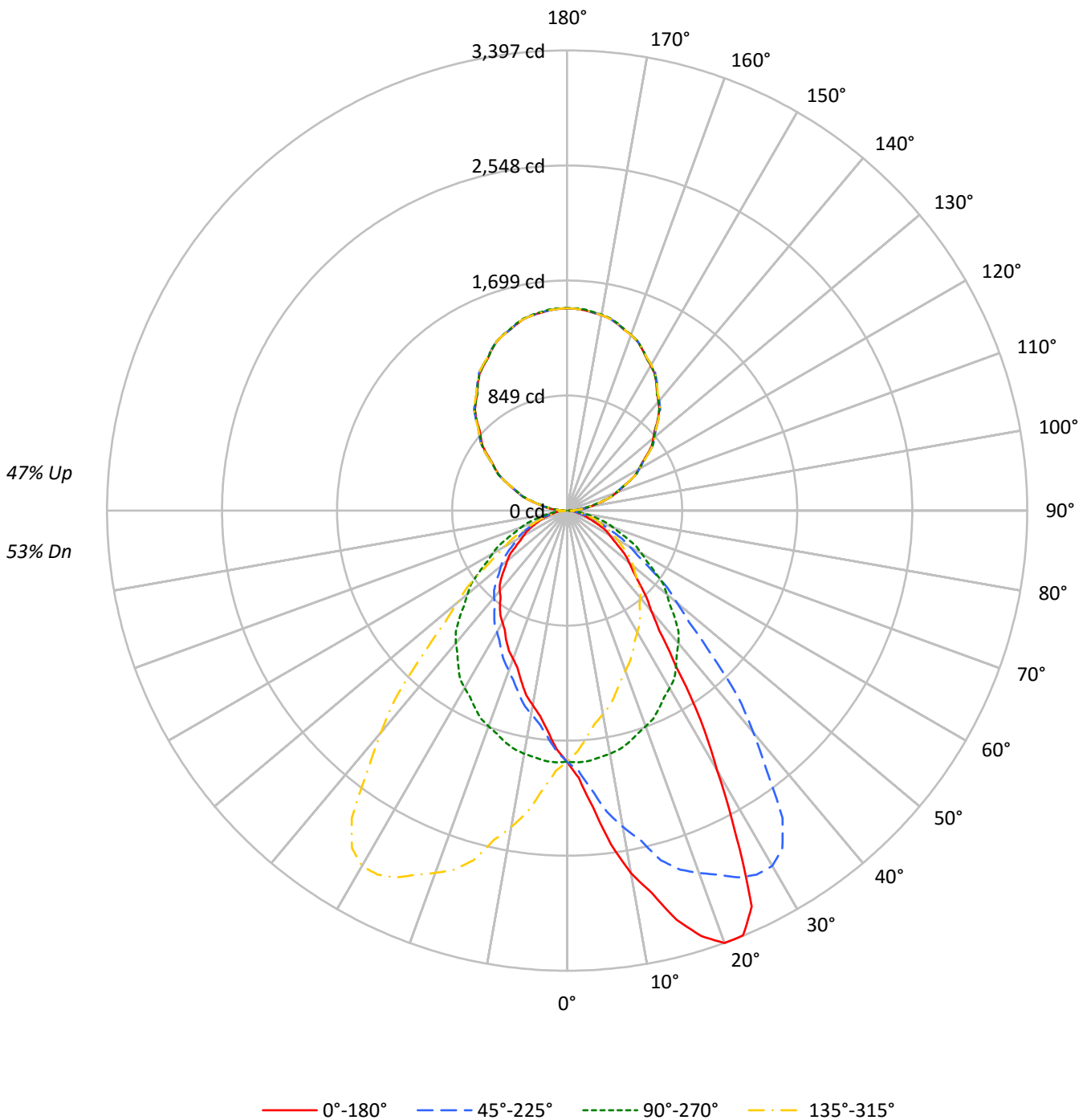
Lumens per Lamp: N/A  
Luminaire Lumens: 8759.3 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	42	40	38	34
4	76	66	58	52	71	62	55	50	53	48	44	45	42	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	19957	19957	19957	19957
5°	23791	20042	17650	20042
10°	29704	19928	15946	19928
15°	34867	19724	14540	19724
20°	38913	19420	13347	19420
25°	38292	19099	12613	19099
30°	27524	18804	11857	18804
35°	18378	18419	11369	18419
40°	13540	17956	10863	17956
45°	11357	17145	10368	17145
50°	10021	16083	9676	16083
55°	8788	14865	8728	14865
60°	7828	13702	7995	13702
65°	6872	12455	7440	12455
70°	5397	11339	6795	11339
75°	4754	9902	6209	9902
80°	4135	8412	6106	8412
85°	3335	6756	6472	6756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.3	2.1
10°-20°	569.6	6.5
20°-30°	894.9	10.2
30°-40°	933.7	10.7
40°-50°	799.0	9.1
50°-60°	609.0	7.0
60°-70°	390.4	4.5
70°-80°	187.8	2.1
80°-90°	54.1	0.6
90°-100°	97.3	1.1
100°-110°	291.2	3.3
110°-120°	495.4	5.7
120°-130°	651.6	7.4
130°-140°	732.3	8.4
140°-150°	719.9	8.2
150°-160°	606.0	6.9
160°-170°	403.4	4.6
170°-180°	141.3	1.6
0°-30°	1646.9	18.8
0°-40°	2580.6	29.5
0°-60°	3988.6	45.5
0°-90°	4620.9	52.8
90°-120°	883.9	10.1
90°-150°	2987.7	34.1
90°-180°	4138.0	47.2
0°-180°	8759.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1854	1854	1854	1854	1854	
5°	2202	1855	1634	1855	2202	227
15°	3129	1770	1305	1770	3129	887
25°	3224	1608	1062	1608	3224	1386
35°	1399	1402	865	1402	1399	917
45°	746	1126	681	1126	746	587
55°	468	792	465	792	468	423
65°	270	489	292	489	270	265
75°	114	238	149	238	114	123
85°	27	55	52	55	27	32
90°	35	1	35	1	35	18
95°	92	69	92	69	92	94
105°	279	264	279	264	279	296
115°	500	499	500	499	500	495
125°	722	730	722	730	722	645
135°	946	947	946	947	946	727
145°	1149	1149	1149	1149	1149	717
155°	1313	1315	1313	1315	1313	605
165°	1428	1433	1428	1433	1428	403
175°	1484	1490	1484	1490	1484	141
180°	1494	1494	1494	1494	1494	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1974.8	1977.3	1969.0	1967.8	1958.2	1955.7	1955.7	1942.4	1934.1	1923.4	1917.0
5°	2201.8	2214.5	2208.2	2193.8	2170.0	2164.4	2149.4	2125.6	2098.6	2065.3	2049.4
7.5°	2485.3	2502.6	2496.0	2473.9	2448.9	2428.8	2386.2	2346.7	2291.3	2242.7	2201.1
10°	2717.7	2699.5	2685.1	2663.7	2640.7	2603.4	2559.0	2497.8	2427.2	2371.7	2309.8
12.5°	2891.6	2888.7	2870.5	2848.5	2816.0	2780.6	2725.9	2651.5	2569.4	2489.1	2418.3
15°	3128.9	3133.6	3121.7	3098.7	3052.6	2989.9	2907.4	2876.5	2759.0	2671.7	2584.3
17.5°	3293.0	3292.1	3290.4	3258.5	3211.6	3166.9	3090.4	3009.0	2902.7	2779.7	2662.0
20°	3397.1	3389.2	3390.8	3355.1	3320.1	3268.5	3193.9	3075.6	2988.4	2846.3	2724.8
22.5°	3394.6	3393.0	3399.0	3386.8	3361.4	3321.8	3263.2	3163.3	3051.9	2908.5	2771.9
25°	3224.1	3217.7	3255.1	3265.4	3305.9	3313.0	3295.5	3240.8	3135.2	2987.6	2818.5
27.5°	2698.4	2694.8	2764.1	2850.7	2960.6	3046.0	3128.6	3168.4	3135.2	3029.5	2860.1
30°	2214.5	2289.1	2324.0	2449.4	2589.1	2755.8	2901.8	3040.7	3074.8	3028.9	2889.9
32.5°	1838.6	1903.7	1932.9	2040.5	2170.7	2365.9	2585.0	2781.7	2920.6	2955.8	2872.2
35°	1398.6	1399.4	1466.0	1513.6	1634.3	1835.1	2047.8	2311.3	2573.2	2771.7	2792.3
37.5°	1116.0	1119.9	1160.2	1207.7	1298.2	1404.4	1591.7	1810.8	2113.3	2418.0	2596.6
40°	963.6	970.7	1000.9	1047.7	1112.8	1193.0	1339.0	1545.4	1797.8	2136.7	2413.7
42.5°	865.8	877.4	892.9	929.0	969.3	1044.4	1162.5	1321.9	1551.5	1871.9	2191.5
45°	746.1	752.5	764.4	781.0	817.5	869.9	949.3	1056.4	1247.0	1504.9	1824.7
47.5°	658.1	654.8	667.3	680.9	705.2	740.8	794.1	881.5	1017.4	1224.4	1495.7
50°	598.4	597.6	606.4	616.7	639.7	665.9	709.6	775.5	883.4	1054.9	1303.3
52.5°	542.6	545.6	551.8	564.6	581.3	602.5	641.7	689.1	781.8	929.8	1136.9
55°	468.3	470.7	479.4	486.6	498.5	519.9	544.5	584.2	647.7	750.8	921.5
57.5°	405.5	404.3	412.7	414.4	428.0	445.5	464.4	495.2	541.3	618.0	733.0
60°	363.6	361.1	368.3	373.9	381.0	395.3	411.1	441.3	477.9	534.2	632.6
62.5°	325.4	324.3	329.5	335.1	341.0	354.0	367.3	390.5	419.4	466.9	544.9
65°	269.8	272.3	274.6	277.0	280.1	288.1	300.8	316.7	336.6	369.9	426.3
67.5°	212.1	214.5	215.3	220.2	227.0	232.0	239.7	253.9	267.6	295.8	327.8
70°	171.5	170.7	171.5	173.8	182.6	191.3	201.6	212.0	220.7	240.4	267.5
72.5°	147.3	145.9	147.9	148.5	152.7	155.1	161.6	171.3	182.6	196.0	215.4
75°	114.3	114.3	114.3	114.3	117.4	119.1	121.5	123.8	127.7	134.1	148.5
77.5°	84.4	84.6	85.7	86.5	87.2	88.1	89.6	91.9	93.3	96.6	102.9
80°	66.7	67.5	66.7	67.5	67.5	69.1	69.9	72.2	73.0	77.0	79.4
82.5°	50.2	49.7	50.2	51.0	51.0	52.5	52.7	54.4	54.6	56.7	59.1
85°	27.0	25.4	27.0	26.2	27.8	26.2	27.0	28.6	28.6	29.4	32.5
87.5°	13.4	14.5	13.2	13.7	13.6	14.0	13.8	13.6	14.7	13.9	13.8
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3	29.2	28.2	24.7
92.5°	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8	45.8	45.0	43.1
95°	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9	87.9	86.8	84.7
97.5°	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3	137.0	135.8	134.3
100°	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0	173.3	172.5	171.2
102.5°	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3	214.6	213.8	212.1
105°	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9	276.9	276.9	274.6
107.5°	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6	342.7	341.9	340.9
110°	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1	387.1	386.1	385.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6	431.4	430.1	430.0
115°	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4	500.1	499.9	500.4
117.5°	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8	568.8	568.9	569.6
120°	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3	614.6	614.8	616.1
122.5°	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5	661.1	661.8	662.5
125°	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9	729.9	731.0	731.5
127.5°	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6	798.1	799.5	800.1
130°	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5	842.6	843.6	844.4
132.5°	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2	886.5	887.8	888.3
135°	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7	951.7	952.7	953.0
137.5°	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6	1015.7	1016.8	1016.1
140°	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9
142.5°	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1	1096.3	1096.6	1096.1
145°	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1	1154.3	1154.6	1153.8
147.5°	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5	1242.5	1242.5	1242.0
152.5°	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4	1273.0	1272.6	1272.3
155°	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6	1317.6	1316.5	1316.3
157.5°	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4	1356.3	1355.2	1355.0
160°	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3	1380.0	1378.7	1378.7
162.5°	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8	1402.5	1401.2	1401.0
165°	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3	1430.7	1429.2	1429.2
167.5°	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1	1451.9
170°	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3	1464.3
172.5°	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9	1476.3	1474.7	1474.7
175°	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5	1487.0	1485.4	1485.4
177.5°	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4	1492.1	1490.9	1490.9
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1914.5	1912.6	1903.7	1893.5	1880.2	1871.3	1864.3	1860.5	1849.1	1835.1	1825.5
5°	2032.8	2008.9	1983.5	1952.6	1924.0	1894.6	1876.3	1854.9	1828.8	1799.4	1778.8
7.5°	2159.4	2112.7	2062.4	2010.5	1959.2	1913.2	1872.6	1837.8	1796.0	1753.9	1724.4
10°	2256.5	2188.3	2117.7	2045.4	1979.5	1917.6	1870.0	1823.2	1773.2	1724.7	1688.3
12.5°	2344.8	2254.9	2173.5	2084.8	2000.5	1926.5	1857.9	1802.8	1742.7	1691.1	1649.5
15°	2456.6	2364.5	2266.0	2131.1	2019.2	1925.6	1842.2	1770.0	1697.0	1633.5	1593.0
17.5°	2561.0	2422.5	2290.2	2177.7	2032.3	1915.2	1813.5	1727.2	1647.0	1579.6	1529.8
20°	2604.2	2470.0	2326.4	2182.7	2039.8	1908.9	1790.6	1695.4	1612.0	1535.8	1489.9
22.5°	2630.2	2478.3	2327.0	2172.6	2020.8	1884.8	1767.8	1663.0	1572.7	1500.3	1443.5
25°	2660.6	2479.6	2312.9	2160.5	2005.7	1858.2	1719.2	1608.1	1510.5	1433.5	1373.1
27.5°	2680.6	2467.7	2270.7	2101.3	1944.3	1797.3	1670.0	1552.2	1453.2	1371.7	1307.0
30°	2684.3	2458.1	2238.3	2055.0	1895.4	1760.5	1625.6	1512.9	1408.1	1321.5	1261.2
32.5°	2689.5	2434.7	2194.4	1999.7	1836.3	1702.7	1580.4	1472.8	1365.5	1280.3	1218.7
35°	2668.5	2421.7	2128.0	1904.1	1740.6	1611.2	1501.0	1401.7	1296.2	1213.6	1150.9
37.5°	2578.3	2370.1	2059.1	1796.5	1625.6	1505.7	1415.8	1329.3	1232.5	1143.5	1084.4
40°	2487.5	2319.3	2005.7	1731.1	1552.6	1429.5	1348.6	1277.9	1184.3	1100.9	1037.4
42.5°	2352.3	2250.1	1954.9	1662.5	1470.0	1351.4	1283.1	1216.9	1134.7	1050.1	990.4
45°	2104.2	2117.7	1851.0	1553.3	1355.6	1236.6	1172.4	1126.3	1053.3	983.4	922.3
47.5°	1793.0	1919.2	1728.9	1436.9	1235.2	1123.5	1067.2	1027.0	977.9	909.3	853.5
50°	1589.8	1770.0	1631.1	1358.9	1159.6	1048.5	992.9	960.4	917.6	863.5	810.4
52.5°	1402.5	1596.0	1513.0	1271.8	1077.7	976.1	921.8	895.0	861.0	810.2	762.1
55°	1143.8	1339.8	1320.8	1140.5	954.8	863.5	822.3	792.1	769.1	731.0	693.0
57.5°	925.1	1111.1	1120.8	994.5	846.6	756.4	720.8	698.1	683.1	654.4	619.1
60°	787.4	958.1	991.4	896.2	769.1	689.7	654.8	636.5	624.7	601.7	574.6
62.5°	673.1	818.3	856.1	787.5	694.8	620.6	593.2	575.6	567.5	547.6	523.8
65°	515.1	635.8	672.3	634.2	585.7	526.2	504.0	489.0	481.8	470.7	453.2
67.5°	387.4	475.2	515.3	488.5	471.0	433.3	419.2	411.1	404.8	397.2	382.5
70°	311.1	376.2	417.5	410.3	396.1	376.2	365.9	360.3	354.0	347.7	335.0
72.5°	250.1	295.0	333.7	337.3	325.6	321.6	312.6	310.2	306.4	298.7	291.8
75°	165.9	196.8	223.8	234.2	238.9	242.9	238.9	238.1	237.3	231.0	227.0
77.5°	108.8	125.4	142.4	160.1	167.4	172.9	174.1	177.0	174.9	171.6	169.7
80°	83.3	87.4	99.2	114.3	126.2	131.0	134.1	135.7	134.9	134.1	131.0
82.5°	60.5	63.8	69.4	80.0	90.0	98.0	99.9	99.6	101.3	101.8	99.2
85°	32.5	33.3	34.9	36.6	42.1	50.8	53.2	54.7	56.4	56.4	51.6
87.5°	14.4	13.1	13.7	13.1	14.5	14.6	17.9	20.6	21.7	19.7	20.2
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4	30.2	31.9	33.7
95°	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3	71.1	72.9	74.7
97.5°	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0	124.3	125.7	127.0
100°	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6	161.2	162.7	164.3
102.5°	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8	202.8	203.7	204.6
105°	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0	264.5	265.1	265.6
107.5°	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3	336.6	336.9	337.2
110°	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3	381.8	382.3	382.9





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3	428.6	428.9	429.2
115°	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7	499.5	500.2	501.0
117.5°	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6	570.1	570.6	571.1
120°	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7	615.2	616.8	618.3
122.5°	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6	660.8	662.0	663.1
125°	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8	730.6	731.3	732.2
127.5°	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6	796.3	797.9	799.6
130°	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8	839.8	841.9	844.0
132.5°	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9	883.0	885.1	887.2
135°	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8	948.5	950.0	951.6
137.5°	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9	1009.2	1010.5	1011.8
140°	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2	1051.5	1052.8	1054.1
142.5°	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6	1089.9	1091.3	1092.6
145°	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7	1149.2	1149.7	1150.2
147.5°	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2	1202.2	1203.2	1204.1
150°	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9	1238.4	1238.9	1239.4
152.5°	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9	1268.7	1269.4	1270.1
155°	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6	1355.3	1355.0	1354.7
160°	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0	1380.5	1380.0	1379.5
162.5°	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5	1402.8	1402.1	1401.4
165°	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7	1431.9	1431.1	1430.3
167.5°	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9	1454.8	1453.8	1452.8
170°	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1	1467.9	1466.9	1465.9
172.5°	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4	1478.3	1477.2	1476.2
175°	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2	1489.1	1488.0	1487.0
177.5°	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6	1493.8	1493.0	1492.1
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1822.4	1814.1	1808.5	1795.7	1787.5	1778.6	1769.7	1775.4	1774.7	1774.1	1774.1
5°	1761.3	1743.0	1726.4	1705.0	1691.4	1674.8	1662.0	1660.4	1663.7	1652.5	1646.2
7.5°	1700.6	1675.7	1652.0	1628.4	1603.4	1583.4	1570.7	1564.9	1556.8	1549.9	1542.9
10°	1658.1	1628.7	1605.7	1576.3	1549.3	1525.5	1510.5	1500.2	1494.6	1489.0	1478.7
12.5°	1614.3	1585.6	1556.2	1523.0	1497.3	1469.7	1458.3	1446.8	1436.1	1430.0	1415.8
15°	1550.1	1512.9	1481.9	1446.9	1418.4	1391.4	1375.5	1352.5	1349.3	1341.4	1327.1
17.5°	1485.8	1445.3	1402.7	1376.7	1344.5	1316.5	1292.3	1284.5	1261.8	1253.2	1240.9
20°	1435.0	1397.8	1365.2	1331.1	1284.2	1258.1	1239.0	1228.7	1210.4	1199.3	1191.3
22.5°	1391.2	1353.3	1315.7	1275.9	1237.3	1207.9	1194.0	1177.9	1167.9	1152.4	1143.8
25°	1328.7	1287.4	1242.1	1199.3	1171.5	1149.3	1127.1	1112.8	1098.5	1091.4	1075.5
27.5°	1256.0	1212.8	1170.5	1138.0	1103.9	1082.0	1061.9	1049.1	1032.0	1020.0	1011.2
30°	1216.0	1165.2	1128.6	1099.3	1055.6	1035.0	1020.0	1004.1	991.4	978.7	970.0
32.5°	1169.6	1123.3	1088.6	1052.3	1018.9	996.2	976.7	962.8	952.0	939.9	931.2
35°	1096.9	1058.0	1022.3	985.8	961.2	938.2	915.1	903.2	892.9	881.8	873.9
37.5°	1031.2	994.8	960.9	926.2	895.8	877.1	858.5	849.4	835.5	828.0	819.9
40°	990.6	954.8	918.4	885.0	853.2	839.0	822.3	808.8	796.1	790.5	781.8
42.5°	946.1	910.4	879.6	843.7	817.7	798.3	782.9	768.2	758.6	750.5	745.6
45°	880.2	848.5	818.3	782.6	758.0	741.3	723.9	710.3	701.7	696.1	687.3
47.5°	816.3	784.6	753.9	722.8	698.9	679.9	662.5	653.1	641.5	634.7	628.7
50°	769.9	741.3	708.8	680.2	656.4	637.3	623.1	611.2	600.9	592.1	588.1
52.5°	727.4	696.9	668.8	642.1	617.0	595.4	582.4	569.9	562.1	552.1	547.5
55°	657.2	627.8	604.0	577.8	553.2	534.9	519.1	508.0	500.1	489.0	482.6
57.5°	591.3	565.0	536.5	513.8	488.5	473.0	459.9	444.8	435.2	426.4	420.2
60°	546.8	516.7	492.1	470.7	448.5	428.6	416.7	404.8	394.5	385.8	380.2
62.5°	500.5	474.1	450.8	427.5	407.2	389.9	376.1	366.1	357.0	351.4	345.9
65°	429.4	408.8	385.0	365.9	346.9	334.2	323.1	314.3	308.0	304.0	299.2
67.5°	364.0	344.0	323.2	304.5	291.8	282.1	274.8	267.3	264.2	259.0	255.9
70°	321.4	300.8	282.6	268.3	255.6	248.4	243.7	238.1	234.9	228.6	225.4
72.5°	275.1	260.1	247.0	235.3	225.1	218.6	212.6	205.7	200.7	193.7	190.5
75°	216.7	203.2	192.9	184.9	178.5	169.9	161.2	154.0	151.6	149.3	148.5
77.5°	160.5	151.9	144.4	137.7	129.9	123.5	121.6	120.0	119.6	118.3	118.3
80°	126.2	118.3	112.7	104.7	100.0	100.0	100.0	98.5	99.2	99.2	99.2
82.5°	93.8	86.5	83.5	80.7	79.7	80.3	80.3	80.7	80.2	81.4	80.8
85°	48.4	49.2	50.8	50.0	50.8	50.8	52.4	51.6	52.4	50.8	52.4
87.5°	20.1	22.6	23.9	25.2	26.6	26.6	27.5	27.7	28.5	28.7	28.9
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3	31.3	32.3	33.1
92.5°	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8	47.6	48.4	48.7
95°	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9	90.0	91.0	91.5
97.5°	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3	139.5	140.7	141.2
100°	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0	174.8	175.6	176.2
102.5°	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3	216.1	216.9	217.2
105°	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9	276.9	276.9	277.2
107.5°	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6	344.5	345.3	345.5
110°	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1	389.2	390.2	390.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6	433.9	435.2	435.8
115°	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4	500.6	500.9	500.9
117.5°	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8	568.7	568.7	568.3
120°	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3	614.1	613.8	613.4
122.5°	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5	659.7	659.0	658.3
125°	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9	727.9	726.8	725.8
127.5°	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6	795.2	793.7	792.3
130°	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5	840.5	839.5	838.0
132.5°	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2	884.0	882.7	881.4
135°	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7	949.6	948.6	947.8
137.5°	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6	1013.5	1012.4	1011.4
140°	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.1
142.5°	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1	1095.8	1095.6	1094.7
145°	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1	1153.8	1153.6	1152.9
147.5°	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5	1242.5	1242.5	1241.8
152.5°	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4	1273.8	1274.2	1273.8
155°	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6	1319.6	1320.7	1320.3
157.5°	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4	1358.5	1359.6	1359.4
160°	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3	1382.6	1383.9	1384.0
162.5°	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8	1405.1	1406.4	1406.2
165°	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3	1433.8	1435.4	1435.2
167.5°	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5
170°	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7
172.5°	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9	1479.6	1481.2	1481.1
175°	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5	1490.2	1491.7	1491.6
177.5°	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4	1494.6	1495.8	1495.7
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332385-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1766.6	1765.8	1766.6	1763.9	1766.6	1765.8	1766.6	1774.1	1774.1	1774.7	1775.4
5°	1643.8	1643.1	1640.6	1633.5	1640.6	1643.1	1643.8	1646.2	1652.5	1663.7	1660.4
7.5°	1536.6	1535.5	1528.5	1528.7	1528.5	1535.5	1536.6	1542.9	1549.9	1556.8	1564.9
10°	1473.2	1473.9	1464.4	1458.9	1464.4	1473.9	1473.2	1478.7	1489.0	1494.6	1500.2
12.5°	1411.6	1408.0	1400.3	1394.1	1400.3	1408.0	1411.6	1415.8	1430.0	1436.1	1446.8
15°	1330.3	1322.3	1303.3	1304.8	1303.3	1322.3	1330.3	1327.1	1341.4	1349.3	1352.5
17.5°	1234.6	1228.7	1228.4	1217.3	1228.4	1228.7	1234.6	1240.9	1253.2	1261.8	1284.5
20°	1178.7	1174.7	1176.3	1165.2	1176.3	1174.7	1178.7	1191.3	1199.3	1210.4	1228.7
22.5°	1134.9	1130.8	1124.2	1120.7	1124.2	1130.8	1134.9	1143.8	1152.4	1167.9	1177.9
25°	1070.8	1064.4	1058.0	1062.0	1058.0	1064.4	1070.8	1075.5	1091.4	1098.5	1112.8
27.5°	1006.6	1001.9	995.5	994.7	995.5	1001.9	1006.6	1011.2	1020.0	1032.0	1049.1
30°	965.9	961.2	958.1	954.0	958.1	961.2	965.9	970.0	978.7	991.4	1004.1
32.5°	924.7	923.7	918.1	917.3	918.1	923.7	924.7	931.2	939.9	952.0	962.8
35°	870.7	866.0	864.3	865.2	864.3	866.0	870.7	873.9	881.8	892.9	903.2
37.5°	819.4	813.0	810.2	807.4	810.2	813.0	819.4	819.9	828.0	835.5	849.4
40°	782.6	776.3	774.7	773.1	774.7	776.3	782.6	781.8	790.5	796.1	808.8
42.5°	741.3	738.8	737.8	735.0	737.8	738.8	741.3	745.6	750.5	758.6	768.2
45°	685.0	684.2	679.4	681.1	679.4	684.2	685.0	687.3	696.1	701.7	710.3
47.5°	625.6	622.1	618.7	621.0	618.7	622.1	625.6	628.7	634.7	641.5	653.1
50°	585.0	583.4	576.2	577.8	576.2	583.4	585.0	588.1	592.1	600.9	611.2
52.5°	544.3	538.3	535.6	534.6	535.6	538.3	544.3	547.5	552.1	562.1	569.9
55°	477.1	469.9	466.7	465.1	466.7	469.9	477.1	482.6	489.0	500.1	508.0
57.5°	411.0	409.1	406.6	408.3	406.6	409.1	411.0	420.2	426.4	435.2	444.8
60°	372.2	372.2	372.2	371.4	372.2	372.2	372.2	380.2	385.8	394.5	404.8
62.5°	342.4	340.5	339.9	341.0	339.9	340.5	342.4	345.9	351.4	357.0	366.1
65°	296.9	296.1	292.9	292.1	292.9	296.1	296.9	299.2	304.0	308.0	314.3
67.5°	253.9	251.0	250.0	248.9	250.0	251.0	253.9	255.9	259.0	264.2	267.3
70°	221.5	219.8	215.1	215.9	215.1	219.8	221.5	225.4	228.6	234.9	238.1
72.5°	186.5	184.9	184.0	182.9	184.0	184.9	186.5	190.5	193.7	200.7	205.7
75°	147.6	146.8	146.0	149.3	146.0	146.8	147.6	148.5	149.3	151.6	154.0
77.5°	118.3	118.3	118.8	117.4	118.8	118.3	118.3	118.3	118.3	119.6	120.0
80°	99.2	99.2	98.5	98.5	98.5	99.2	99.2	99.2	99.2	99.2	98.5
82.5°	79.6	80.2	80.7	79.4	80.7	80.2	79.6	80.8	81.4	80.2	80.7
85°	52.4	51.6	53.2	52.4	53.2	51.6	52.4	52.4	50.8	52.4	51.6
87.5°	30.2	29.1	29.2	29.9	29.2	29.1	30.2	28.9	28.7	28.5	27.7
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3
92.5°	48.4	48.1	47.7	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8
95°	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9
97.5°	141.1	141.0	140.9	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3
100°	176.8	177.3	177.8	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0
102.5°	217.1	217.0	216.9	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3
105°	277.7	278.2	278.7	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9
107.5°	345.2	344.9	344.6	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6
110°	389.9	389.4	388.9	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	435.7	435.6	435.5	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6
115°	500.6	500.4	500.1	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4
117.5°	567.5	566.7	566.0	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8
120°	612.9	612.4	611.9	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3
122.5°	657.6	656.9	656.1	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5
125°	724.8	723.7	722.7	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9
127.5°	791.1	789.9	788.7	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6
130°	836.2	834.4	832.5	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5
132.5°	880.0	878.6	877.2	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2
135°	947.3	946.7	946.2	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7
137.5°	1010.4	1009.5	1008.5	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6
140°	1053.3	1051.5	1049.7	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6
142.5°	1093.3	1091.9	1090.6	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1
145°	1151.9	1150.7	1149.7	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1
147.5°	1206.4	1204.9	1203.3	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8
150°	1240.2	1238.7	1237.1	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5
152.5°	1272.4	1271.1	1269.7	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4
155°	1318.5	1316.7	1314.8	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6
157.5°	1358.0	1356.5	1355.0	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4
160°	1383.0	1381.9	1380.9	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3
162.5°	1404.5	1402.9	1401.2	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8
165°	1433.4	1431.6	1429.8	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3
167.5°	1456.9	1455.3	1453.7	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3
170°	1469.9	1467.9	1466.1	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9
172.5°	1479.1	1477.3	1475.5	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9
175°	1489.8	1487.9	1486.1	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5
177.5°	1494.3	1492.8	1491.4	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1769.7	1778.6	1787.5	1795.7	1808.5	1814.1	1822.4	1825.5	1835.1	1849.1	1860.5
5°	1662.0	1674.8	1691.4	1705.0	1726.4	1743.0	1761.3	1778.8	1799.4	1828.8	1854.9
7.5°	1570.7	1583.4	1603.4	1628.4	1652.0	1675.7	1700.6	1724.4	1753.9	1796.0	1837.8
10°	1510.5	1525.5	1549.3	1576.3	1605.7	1628.7	1658.1	1688.3	1724.7	1773.2	1823.2
12.5°	1458.3	1469.7	1497.3	1523.0	1556.2	1585.6	1614.3	1649.5	1691.1	1742.7	1802.8
15°	1375.5	1391.4	1418.4	1446.9	1481.9	1512.9	1550.1	1593.0	1633.5	1697.0	1770.0
17.5°	1292.3	1316.5	1344.5	1376.7	1402.7	1445.3	1485.8	1529.8	1579.6	1647.0	1727.2
20°	1239.0	1258.1	1284.2	1331.1	1365.2	1397.8	1435.0	1489.9	1535.8	1612.0	1695.4
22.5°	1194.0	1207.9	1237.3	1275.9	1315.7	1353.3	1391.2	1443.5	1500.3	1572.7	1663.0
25°	1127.1	1149.3	1171.5	1199.3	1242.1	1287.4	1328.7	1373.1	1433.5	1510.5	1608.1
27.5°	1061.9	1082.0	1103.9	1138.0	1170.5	1212.8	1256.0	1307.0	1371.7	1453.2	1552.2
30°	1020.0	1035.0	1055.6	1099.3	1128.6	1165.2	1216.0	1261.2	1321.5	1408.1	1512.9
32.5°	976.7	996.2	1018.9	1052.3	1088.6	1123.3	1169.6	1218.7	1280.3	1365.5	1472.8
35°	915.1	938.2	961.2	985.8	1022.3	1058.0	1096.9	1150.9	1213.6	1296.2	1401.7
37.5°	858.5	877.1	895.8	926.2	960.9	994.8	1031.2	1084.4	1143.5	1232.5	1329.3
40°	822.3	839.0	853.2	885.0	918.4	954.8	990.6	1037.4	1100.9	1184.3	1277.9
42.5°	782.9	798.3	817.7	843.7	879.6	910.4	946.1	990.4	1050.1	1134.7	1216.9
45°	723.9	741.3	758.0	782.6	818.3	848.5	880.2	922.3	983.4	1053.3	1126.3
47.5°	662.5	679.9	698.9	722.8	753.9	784.6	816.3	853.5	909.3	977.9	1027.0
50°	623.1	637.3	656.4	680.2	708.8	741.3	769.9	810.4	863.5	917.6	960.4
52.5°	582.4	595.4	617.0	642.1	668.8	696.9	727.4	762.1	810.2	861.0	895.0
55°	519.1	534.9	553.2	577.8	604.0	627.8	657.2	693.0	731.0	769.1	792.1
57.5°	459.9	473.0	488.5	513.8	536.5	565.0	591.3	619.1	654.4	683.1	698.1
60°	416.7	428.6	448.5	470.7	492.1	516.7	546.8	574.6	601.7	624.7	636.5
62.5°	376.1	389.9	407.2	427.5	450.8	474.1	500.5	523.8	547.6	567.5	575.6
65°	323.1	334.2	346.9	365.9	385.0	408.8	429.4	453.2	470.7	481.8	489.0
67.5°	274.8	282.1	291.8	304.5	323.2	344.0	364.0	382.5	397.2	404.8	411.1
70°	243.7	248.4	255.6	268.3	282.6	300.8	321.4	335.0	347.7	354.0	360.3
72.5°	212.6	218.6	225.1	235.3	247.0	260.1	275.1	291.8	298.7	306.4	310.2
75°	161.2	169.9	178.5	184.9	192.9	203.2	216.7	227.0	231.0	237.3	238.1
77.5°	121.6	123.5	129.9	137.7	144.4	151.9	160.5	169.7	171.6	174.9	177.0
80°	100.0	100.0	100.0	104.7	112.7	118.3	126.2	131.0	134.1	134.9	135.7
82.5°	80.3	80.3	79.7	80.7	83.5	86.5	93.8	99.2	101.8	101.3	99.6
85°	52.4	50.8	50.8	50.0	50.8	49.2	48.4	51.6	56.4	56.4	54.7
87.5°	27.5	26.6	26.6	25.2	23.9	22.6	20.1	20.2	19.7	21.7	20.6
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	45.8	45.0	43.1	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4
95°	87.9	86.8	84.7	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3
97.5°	137.0	135.8	134.3	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0
100°	173.3	172.5	171.2	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6
102.5°	214.6	213.8	212.1	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8
105°	276.9	276.9	274.6	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0
107.5°	342.7	341.9	340.9	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3
110°	387.1	386.1	385.5	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	431.4	430.1	430.0	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3
115°	500.1	499.9	500.4	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7
117.5°	568.8	568.9	569.6	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6
120°	614.6	614.8	616.1	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7
122.5°	661.1	661.8	662.5	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6
125°	729.9	731.0	731.5	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8
127.5°	798.1	799.5	800.1	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6
130°	842.6	843.6	844.4	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8
132.5°	886.5	887.8	888.3	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9
135°	951.7	952.7	953.0	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8
137.5°	1015.7	1016.8	1016.1	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9
140°	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2
142.5°	1096.3	1096.6	1096.1	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6
145°	1154.3	1154.6	1153.8	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7
147.5°	1208.8	1208.8	1208.0	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2
150°	1242.5	1242.5	1242.0	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9
152.5°	1273.0	1272.6	1272.3	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9
155°	1317.6	1316.5	1316.3	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1356.3	1355.2	1355.0	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6
160°	1380.0	1378.7	1378.7	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0
162.5°	1402.5	1401.2	1401.0	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5
165°	1430.7	1429.2	1429.2	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7
167.5°	1453.7	1452.1	1451.9	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9
170°	1466.1	1464.3	1464.3	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1
172.5°	1476.3	1474.7	1474.7	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4
175°	1487.0	1485.4	1485.4	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2
177.5°	1492.1	1490.9	1490.9	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1864.3	1871.3	1880.2	1893.5	1903.7	1912.6	1914.5	1917.0	1923.4	1934.1	1942.4
5°	1876.3	1894.6	1924.0	1952.6	1983.5	2008.9	2032.8	2049.4	2065.3	2098.6	2125.6
7.5°	1872.6	1913.2	1959.2	2010.5	2062.4	2112.7	2159.4	2201.1	2242.7	2291.3	2346.7
10°	1870.0	1917.6	1979.5	2045.4	2117.7	2188.3	2256.5	2309.8	2371.7	2427.2	2497.8
12.5°	1857.9	1926.5	2000.5	2084.8	2173.5	2254.9	2344.8	2418.3	2489.1	2569.4	2651.5
15°	1842.2	1925.6	2019.2	2131.1	2266.0	2364.5	2456.6	2584.3	2671.7	2759.0	2876.5
17.5°	1813.5	1915.2	2032.3	2177.7	2290.2	2422.5	2561.0	2662.0	2779.7	2902.7	3009.0
20°	1790.6	1908.9	2039.8	2182.7	2326.4	2470.0	2604.2	2724.8	2846.3	2988.4	3075.6
22.5°	1767.8	1884.8	2020.8	2172.6	2327.0	2478.3	2630.2	2771.9	2908.5	3051.9	3163.3
25°	1719.2	1858.2	2005.7	2160.5	2312.9	2479.6	2660.6	2818.5	2987.6	3135.2	3240.8
27.5°	1670.0	1797.3	1944.3	2101.3	2270.7	2467.7	2680.6	2860.1	3029.5	3135.2	3168.4
30°	1625.6	1760.5	1895.4	2055.0	2238.3	2458.1	2684.3	2889.9	3028.9	3074.8	3040.7
32.5°	1580.4	1702.7	1836.3	1999.7	2194.4	2434.7	2689.5	2872.2	2955.8	2920.6	2781.7
35°	1501.0	1611.2	1740.6	1904.1	2128.0	2421.7	2668.5	2792.3	2771.7	2573.2	2311.3
37.5°	1415.8	1505.7	1625.6	1796.5	2059.1	2370.1	2578.3	2596.6	2418.0	2113.3	1810.8
40°	1348.6	1429.5	1552.6	1731.1	2005.7	2319.3	2487.5	2413.7	2136.7	1797.8	1545.4
42.5°	1283.1	1351.4	1470.0	1662.5	1954.9	2250.1	2352.3	2191.5	1871.9	1551.5	1321.9
45°	1172.4	1236.6	1355.6	1553.3	1851.0	2117.7	2104.2	1824.7	1504.9	1247.0	1056.4
47.5°	1067.2	1123.5	1235.2	1436.9	1728.9	1919.2	1793.0	1495.7	1224.4	1017.4	881.5
50°	992.9	1048.5	1159.6	1358.9	1631.1	1770.0	1589.8	1303.3	1054.9	883.4	775.5
52.5°	921.8	976.1	1077.7	1271.8	1513.0	1596.0	1402.5	1136.9	929.8	781.8	689.1
55°	822.3	863.5	954.8	1140.5	1320.8	1339.8	1143.8	921.5	750.8	647.7	584.2
57.5°	720.8	756.4	846.6	994.5	1120.8	1111.1	925.1	733.0	618.0	541.3	495.2
60°	654.8	689.7	769.1	896.2	991.4	958.1	787.4	632.6	534.2	477.9	441.3
62.5°	593.2	620.6	694.8	787.5	856.1	818.3	673.1	544.9	466.9	419.4	390.5
65°	504.0	526.2	585.7	634.2	672.3	635.8	515.1	426.3	369.9	336.6	316.7
67.5°	419.2	433.3	471.0	488.5	515.3	475.2	387.4	327.8	295.8	267.6	253.9
70°	365.9	376.2	396.1	410.3	417.5	376.2	311.1	267.5	240.4	220.7	212.0
72.5°	312.6	321.6	325.6	337.3	333.7	295.0	250.1	215.4	196.0	182.6	171.3
75°	238.9	242.9	238.9	234.2	223.8	196.8	165.9	148.5	134.1	127.7	123.8
77.5°	174.1	172.9	167.4	160.1	142.4	125.4	108.8	102.9	96.6	93.3	91.9
80°	134.1	131.0	126.2	114.3	99.2	87.4	83.3	79.4	77.0	73.0	72.2
82.5°	99.9	98.0	90.0	80.0	69.4	63.8	60.5	59.1	56.7	54.6	54.4
85°	53.2	50.8	42.1	36.6	34.9	33.3	32.5	32.5	29.4	28.6	28.6
87.5°	17.9	14.6	14.5	13.1	13.7	13.1	14.4	13.8	13.9	14.7	13.6
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3
92.5°	30.2	31.9	33.7	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8
95°	71.1	72.9	74.7	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9
97.5°	124.3	125.7	127.0	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3
100°	161.2	162.7	164.3	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0
102.5°	202.8	203.7	204.6	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3
105°	264.5	265.1	265.6	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9
107.5°	336.6	336.9	337.2	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6
110°	381.8	382.3	382.9	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	428.6	428.9	429.2	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6
115°	499.5	500.2	501.0	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4
117.5°	570.1	570.6	571.1	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8
120°	615.2	616.8	618.3	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3
122.5°	660.8	662.0	663.1	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5
125°	730.6	731.3	732.2	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9
127.5°	796.3	797.9	799.6	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6
130°	839.8	841.9	844.0	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5
132.5°	883.0	885.1	887.2	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2
135°	948.5	950.0	951.6	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7
137.5°	1009.2	1010.5	1011.8	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6
140°	1051.5	1052.8	1054.1	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6
142.5°	1089.9	1091.3	1092.6	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1
145°	1149.2	1149.7	1150.2	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1
147.5°	1202.2	1203.2	1204.1	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8
150°	1238.4	1238.9	1239.4	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5
152.5°	1268.7	1269.4	1270.1	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4
155°	1315.3	1315.3	1315.3	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6
157.5°	1355.3	1355.0	1354.7	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4
160°	1380.5	1380.0	1379.5	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3
162.5°	1402.8	1402.1	1401.4	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8
165°	1431.9	1431.1	1430.3	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3
167.5°	1454.8	1453.8	1452.8	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3
170°	1467.9	1466.9	1465.9	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9
172.5°	1478.3	1477.2	1476.2	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9
175°	1489.1	1488.0	1487.0	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5
177.5°	1493.8	1493.0	1492.1	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1955.7	1955.7	1958.2	1967.8	1969.0	1977.3	1974.8
5°	2149.4	2164.4	2170.0	2193.8	2208.2	2214.5	2201.8
7.5°	2386.2	2428.8	2448.9	2473.9	2496.0	2502.6	2485.3
10°	2559.0	2603.4	2640.7	2663.7	2685.1	2699.5	2717.7
12.5°	2725.9	2780.6	2816.0	2848.5	2870.5	2888.7	2891.6
15°	2907.4	2989.9	3052.6	3098.7	3121.7	3133.6	3128.9
17.5°	3090.4	3166.9	3211.6	3258.5	3290.4	3292.1	3293.0
20°	3193.9	3268.5	3320.1	3355.1	3390.8	3389.2	3397.1
22.5°	3263.2	3321.8	3361.4	3386.8	3399.0	3393.0	3394.6
25°	3295.5	3313.0	3305.9	3265.4	3255.1	3217.7	3224.1
27.5°	3128.6	3046.0	2960.6	2850.7	2764.1	2694.8	2698.4
30°	2901.8	2755.8	2589.1	2449.4	2324.0	2289.1	2214.5
32.5°	2585.0	2365.9	2170.7	2040.5	1932.9	1903.7	1838.6
35°	2047.8	1835.1	1634.3	1513.6	1466.0	1399.4	1398.6
37.5°	1591.7	1404.4	1298.2	1207.7	1160.2	1119.9	1116.0
40°	1339.0	1193.0	1112.8	1047.7	1000.9	970.7	963.6
42.5°	1162.5	1044.4	969.3	929.0	892.9	877.4	865.8
45°	949.3	869.9	817.5	781.0	764.4	752.5	746.1
47.5°	794.1	740.8	705.2	680.9	667.3	654.8	658.1
50°	709.6	665.9	639.7	616.7	606.4	597.6	598.4
52.5°	641.7	602.5	581.3	564.6	551.8	545.6	542.6
55°	544.5	519.9	498.5	486.6	479.4	470.7	468.3
57.5°	464.4	445.5	428.0	414.4	412.7	404.3	405.5
60°	411.1	395.3	381.0	373.9	368.3	361.1	363.6
62.5°	367.3	354.0	341.0	335.1	329.5	324.3	325.4
65°	300.8	288.1	280.1	277.0	274.6	272.3	269.8
67.5°	239.7	232.0	227.0	220.2	215.3	214.5	212.1
70°	201.6	191.3	182.6	173.8	171.5	170.7	171.5
72.5°	161.6	155.1	152.7	148.5	147.9	145.9	147.3
75°	121.5	119.1	117.4	114.3	114.3	114.3	114.3
77.5°	89.6	88.1	87.2	86.5	85.7	84.6	84.4
80°	69.9	69.1	67.5	67.5	66.7	67.5	66.7
82.5°	52.7	52.5	51.0	51.0	50.2	49.7	50.2
85°	27.0	26.2	27.8	26.2	27.0	25.4	27.0
87.5°	13.8	14.0	13.6	13.7	13.2	14.5	13.4
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	47.6	48.4	48.7	48.4	48.1	47.7	47.4
95°	90.0	91.0	91.5	91.5	91.5	91.5	91.5
97.5°	139.5	140.7	141.2	141.1	141.0	140.9	140.8
100°	174.8	175.6	176.2	176.8	177.3	177.8	178.3
102.5°	216.1	216.9	217.2	217.1	217.0	216.9	216.8
105°	276.9	276.9	277.2	277.7	278.2	278.7	279.2
107.5°	344.5	345.3	345.5	345.2	344.9	344.6	344.3
110°	389.2	390.2	390.4	389.9	389.4	388.9	388.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	435.2	435.8	435.7	435.6	435.5	435.4
115°	500.6	500.9	500.9	500.6	500.4	500.1	499.9
117.5°	568.7	568.7	568.3	567.5	566.7	566.0	565.3
120°	614.1	613.8	613.4	612.9	612.4	611.9	611.3
122.5°	659.7	659.0	658.3	657.6	656.9	656.1	655.4
125°	727.9	726.8	725.8	724.8	723.7	722.7	721.6
127.5°	795.2	793.7	792.3	791.1	789.9	788.7	787.6
130°	840.5	839.5	838.0	836.2	834.4	832.5	830.7
132.5°	884.0	882.7	881.4	880.0	878.6	877.2	875.8
135°	949.6	948.6	947.8	947.3	946.7	946.2	945.7
137.5°	1013.5	1012.4	1011.4	1010.4	1009.5	1008.5	1007.4
140°	1056.4	1056.1	1055.1	1053.3	1051.5	1049.7	1047.8
142.5°	1095.8	1095.6	1094.7	1093.3	1091.9	1090.6	1089.1
145°	1153.8	1153.6	1152.9	1151.9	1150.7	1149.7	1148.7
147.5°	1208.8	1208.8	1208.0	1206.4	1204.9	1203.3	1201.7
150°	1242.5	1242.5	1241.8	1240.2	1238.7	1237.1	1235.6
152.5°	1273.8	1274.2	1273.8	1272.4	1271.1	1269.7	1268.4
155°	1319.6	1320.7	1320.3	1318.5	1316.7	1314.8	1312.9
157.5°	1358.5	1359.6	1359.4	1358.0	1356.5	1355.0	1353.5
160°	1382.6	1383.9	1384.0	1383.0	1381.9	1380.9	1379.9
162.5°	1405.1	1406.4	1406.2	1404.5	1402.9	1401.2	1399.6
165°	1433.8	1435.4	1435.2	1433.4	1431.6	1429.8	1427.9
167.5°	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1
170°	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3
172.5°	1479.6	1481.2	1481.1	1479.1	1477.3	1475.5	1473.7
175°	1490.2	1491.7	1491.6	1489.8	1487.9	1486.1	1484.3
177.5°	1494.6	1495.8	1495.7	1494.3	1492.8	1491.4	1490.0
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7

(END OF REPORT)