

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: P332205-930

Luminaire Tested: **S123DIW-S1000D1535U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332205-930  
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: S123DIW-S1000D1535U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7797.1 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

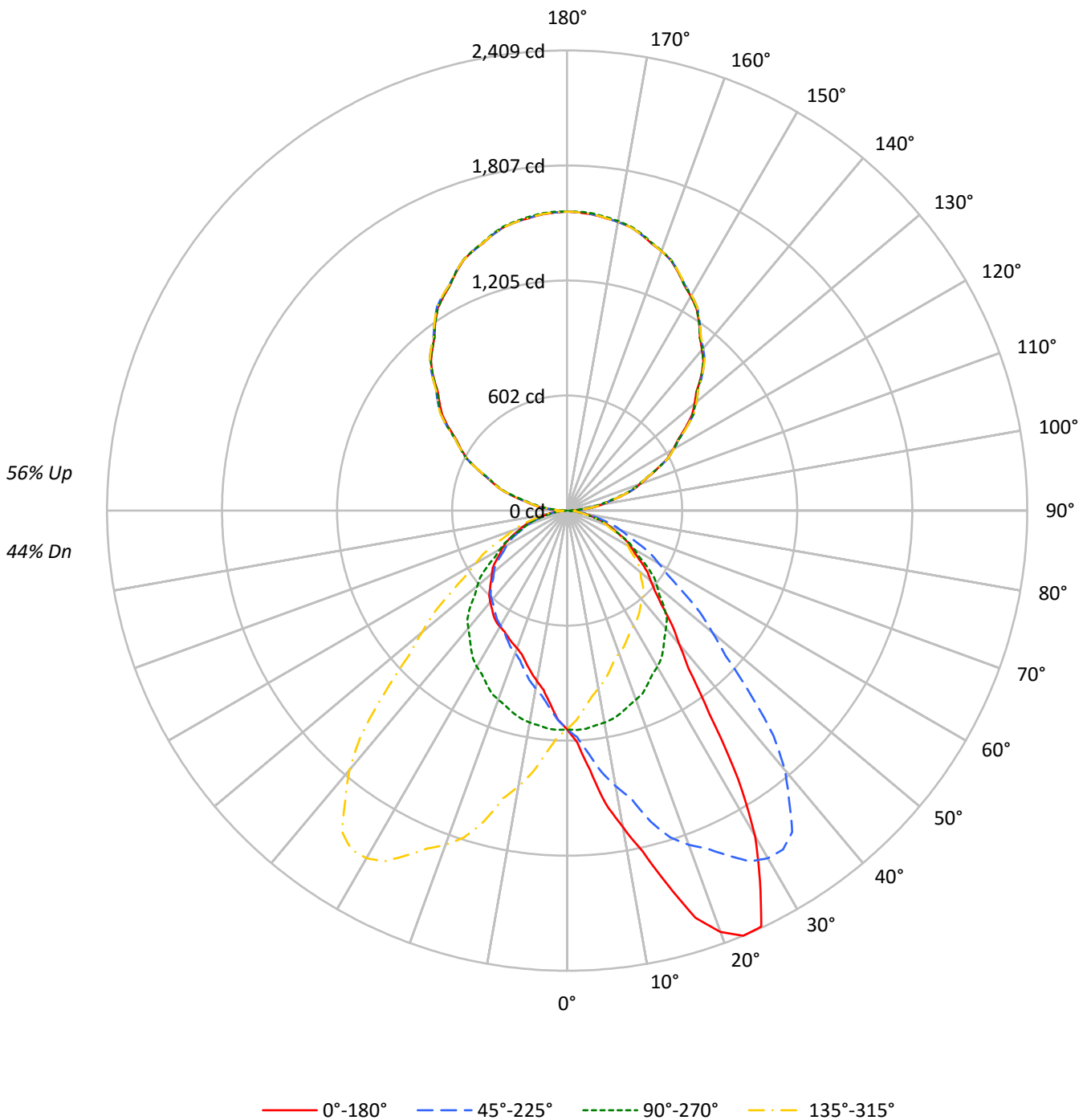
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	71	68	66	58	56	55	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

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

	0°	90°	180°	270°
0°	12326	12326	12326	12326
5°	14699	12379	10970	12379
10°	18398	12316	9908	12316
15°	22566	12217	9225	12217
20°	26882	12062	8782	12062
25°	28544	11873	8684	11873
30°	24467	11737	8730	11737
35°	17015	11540	8821	11540
40°	12816	11311	8793	11311
45°	10641	10971	8681	10971
50°	9532	10275	8602	10275
55°	8912	9526	8496	9526
60°	8359	8742	8409	8742
65°	7857	7969	8140	7969
70°	7371	7091	7751	7091
75°	6600	6209	7107	6209
80°	5777	5089	6118	5089
85°	4520	3693	4113	3693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	1.4
10°-20°	361.7	4.6
20°-30°	607.1	7.8
30°-40°	687.4	8.8
40°-50°	616.4	7.9
50°-60°	497.4	6.4
60°-70°	346.6	4.4
70°-80°	182.2	2.3
80°-90°	49.2	0.6
90°-100°	102.0	1.3
100°-110°	305.2	3.9
110°-120°	519.0	6.7
120°-130°	682.7	8.8
130°-140°	767.4	9.8
140°-150°	754.3	9.7
150°-160°	635.0	8.1
160°-170°	422.7	5.4
170°-180°	148.0	1.9
0°-30°	1081.6	13.9
0°-40°	1768.9	22.7
0°-60°	2882.8	37.0
0°-90°	3460.8	44.4
90°-120°	926.2	11.9
90°-150°	3130.5	40.2
90°-180°	4336.0	55.6
0°-180°	7797.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1360	1146	1015	1146	1360	141
15°	2025	1096	828	1096	2025	585
25°	2403	1000	731	1000	2403	1054
35°	1295	878	671	878	1295	841
45°	699	721	570	721	699	553
55°	475	508	453	508	475	426
65°	308	313	320	313	308	307
75°	159	149	171	149	159	170
85°	37	30	33	30	37	44
90°	37	1	37	1	37	20
95°	96	73	96	73	96	98
105°	293	277	293	277	293	310
115°	524	522	524	522	524	519
125°	756	765	756	765	756	676
135°	991	992	991	992	991	762
145°	1204	1204	1204	1204	1204	751
155°	1376	1378	1376	1378	1376	633
165°	1496	1501	1496	1501	1496	422
175°	1555	1561	1555	1561	1555	148
180°	1565	1565	1565	1565	1565	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1215.2	1214.4	1212.1	1213.9	1210.4	1205.5	1205.0	1200.6	1187.7	1186.8	1183.3
5°	1360.4	1355.9	1355.4	1354.9	1347.0	1336.5	1316.5	1314.9	1288.3	1275.0	1258.8
7.5°	1548.3	1550.7	1542.5	1535.5	1511.7	1496.1	1474.6	1447.2	1414.5	1381.4	1359.3
10°	1683.3	1701.6	1678.9	1663.3	1648.9	1621.7	1590.1	1550.7	1511.3	1465.3	1430.3
12.5°	1828.0	1837.0	1832.4	1817.8	1795.4	1754.0	1697.9	1654.6	1618.3	1541.6	1510.6
15°	2025.0	2058.9	2037.3	1987.3	1988.4	1949.1	1875.8	1795.4	1752.6	1685.5	1594.0
17.5°	2235.0	2239.2	2230.0	2188.3	2160.6	2106.5	2038.9	1961.8	1875.3	1794.0	1697.0
20°	2346.8	2343.5	2324.1	2302.4	2254.7	2212.6	2138.8	2052.8	1941.8	1861.9	1756.0
22.5°	2409.0	2403.4	2394.2	2376.1	2336.4	2291.2	2224.9	2130.9	2025.3	1915.2	1792.8
25°	2403.4	2410.6	2411.7	2406.8	2392.9	2365.7	2313.5	2238.6	2133.2	1991.8	1864.2
27.5°	2185.9	2196.2	2225.8	2252.1	2281.5	2311.5	2307.5	2270.3	2192.3	2070.0	1914.1
30°	1968.5	1946.3	2001.2	2070.5	2117.7	2200.9	2247.5	2250.3	2206.4	2101.6	1949.5
32.5°	1666.6	1691.0	1715.3	1800.7	1903.7	1997.2	2089.9	2164.6	2173.2	2103.4	1970.4
35°	1294.9	1325.4	1369.8	1414.2	1525.2	1620.6	1783.7	1925.7	2038.9	2053.9	1972.3
37.5°	1043.5	1058.6	1086.6	1131.1	1203.7	1316.9	1443.1	1622.6	1786.6	1908.5	1913.8
40°	912.1	916.6	948.2	982.0	1040.8	1134.0	1247.7	1406.4	1602.8	1773.2	1844.2
42.5°	813.6	823.3	836.7	869.3	916.1	986.2	1091.9	1223.1	1403.1	1599.1	1738.1
45°	699.0	710.1	718.4	740.1	773.4	820.5	894.4	1014.2	1151.2	1353.7	1540.7
47.5°	623.4	624.3	630.5	646.8	669.4	704.8	757.0	834.0	959.8	1124.1	1316.0
50°	569.2	578.1	580.3	593.0	610.8	636.9	680.2	745.7	848.9	993.1	1169.5
52.5°	531.1	533.7	540.0	549.2	564.7	585.0	622.5	673.8	754.7	877.7	1039.9
55°	474.9	474.9	481.0	488.2	497.1	515.4	540.4	578.1	639.7	735.2	869.4
57.5°	423.0	425.7	430.1	432.3	439.9	451.9	472.8	501.4	547.4	620.9	727.6
60°	388.3	393.4	392.8	397.2	403.9	413.4	431.0	454.4	495.5	554.2	644.2
62.5°	358.2	357.8	357.8	363.1	369.7	378.7	390.3	410.4	445.3	497.4	574.0
65°	308.5	307.4	311.3	314.5	316.8	323.4	332.3	350.1	373.4	412.2	471.6
67.5°	264.3	261.1	263.2	264.3	268.1	273.3	281.6	292.6	311.1	342.3	387.0
70°	234.2	231.4	230.8	231.9	235.2	239.1	245.2	255.8	273.0	297.9	330.7
72.5°	203.1	201.1	201.1	203.5	205.0	207.6	211.9	221.6	235.2	254.0	284.5
75°	158.7	158.7	158.7	159.2	160.9	163.1	166.4	171.5	182.0	195.3	215.8
77.5°	119.0	118.9	118.1	118.1	120.5	121.5	122.3	126.9	132.8	141.8	156.8
80°	93.2	90.4	91.6	93.2	94.3	94.9	96.5	97.7	102.6	107.6	118.1
82.5°	69.2	66.9	67.1	69.7	69.9	70.4	72.2	73.7	75.6	80.1	85.8
85°	36.6	36.6	37.2	37.2	37.7	37.2	38.8	39.4	39.4	42.2	45.5
87.5°	20.7	19.7	20.1	20.4	19.8	20.1	20.3	20.5	20.8	21.0	20.7
90°	36.9	36.4	35.8	35.2	34.7	33.9	32.8	31.7	30.6	29.5	25.9
92.5°	49.7	50.0	50.3	50.6	51.0	50.7	49.8	48.9	48.1	47.2	45.2
95°	95.9	95.9	95.9	95.9	95.9	95.3	94.2	93.2	92.0	91.0	88.8
97.5°	147.6	147.7	147.7	147.9	148.0	147.4	146.1	144.9	143.7	142.4	140.8
100°	186.9	186.3	185.8	185.2	184.7	184.0	183.2	182.4	181.6	180.8	179.4
102.5°	227.2	227.3	227.4	227.6	227.6	227.3	226.5	225.7	224.9	224.0	222.2
105°	292.6	292.0	291.6	291.0	290.4	290.2	290.2	290.2	290.2	290.2	287.7
107.5°	360.7	361.0	361.3	361.7	362.0	361.7	360.9	360.0	359.1	358.2	357.3
110°	406.9	407.5	408.1	408.5	409.1	408.9	407.7	406.7	405.6	404.5	403.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	456.1	456.2	456.3	456.5	456.6	455.9	454.6	453.3	452.0	450.7	450.6
115°	523.7	524.0	524.3	524.6	524.8	524.8	524.6	524.3	524.0	523.7	524.3
117.5°	592.3	593.1	593.9	594.6	595.4	595.8	595.9	595.9	596.0	596.1	596.7
120°	640.5	641.1	641.6	642.2	642.7	643.1	643.4	643.7	643.9	644.2	645.6
122.5°	686.7	687.5	688.3	689.1	689.8	690.6	691.3	691.9	692.7	693.4	694.1
125°	756.1	757.2	758.3	759.4	760.4	761.6	762.6	763.8	764.8	766.0	766.5
127.5°	825.2	826.5	827.7	829.0	830.2	831.6	833.2	834.7	836.2	837.7	838.4
130°	870.4	872.4	874.2	876.2	878.1	879.6	880.7	881.7	882.9	883.9	884.8
132.5°	917.6	919.1	920.6	922.1	923.6	925.0	926.3	927.6	928.9	930.2	930.7
135°	990.9	991.5	992.0	992.5	993.1	993.9	995.0	996.1	997.2	998.3	998.6
137.5°	1055.6	1056.6	1057.7	1058.7	1059.7	1060.9	1062.0	1063.2	1064.3	1065.4	1064.7
140°	1097.9	1099.8	1101.7	1103.6	1105.5	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4
142.5°	1141.2	1142.6	1144.1	1145.6	1147.0	1147.9	1148.2	1148.5	1148.8	1149.0	1148.5
145°	1203.6	1204.7	1205.8	1206.9	1207.9	1208.7	1208.9	1209.2	1209.5	1209.7	1208.9
147.5°	1259.1	1260.8	1262.5	1264.1	1265.8	1266.6	1266.6	1266.6	1266.6	1266.6	1265.8
150°	1294.6	1296.2	1297.9	1299.5	1301.1	1302.0	1302.0	1302.0	1302.0	1302.0	1301.4
152.5°	1329.0	1330.4	1331.9	1333.3	1334.7	1335.2	1334.7	1334.3	1333.9	1333.4	1333.1
155°	1375.7	1377.6	1379.6	1381.4	1383.4	1383.8	1382.7	1381.6	1380.5	1379.4	1379.2
157.5°	1418.3	1419.8	1421.3	1422.9	1424.4	1424.6	1423.4	1422.3	1421.1	1420.0	1419.8
160°	1445.8	1446.9	1448.0	1449.1	1450.2	1450.0	1448.7	1447.3	1445.9	1444.5	1444.5
162.5°	1466.5	1468.2	1470.0	1471.7	1473.5	1473.7	1472.3	1470.9	1469.6	1468.2	1467.9
165°	1496.2	1498.1	1500.1	1501.9	1503.9	1504.0	1502.4	1500.7	1499.1	1497.5	1497.5
167.5°	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3	1526.6	1524.9	1523.2	1521.5	1521.3
170°	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0	1540.1	1538.1	1536.3	1534.3	1534.3
172.5°	1544.2	1546.1	1548.0	1549.9	1551.8	1551.9	1550.2	1548.5	1546.9	1545.2	1545.2
175°	1555.3	1557.1	1559.0	1561.0	1562.8	1563.0	1561.4	1559.7	1558.1	1556.5	1556.5
177.5°	1561.1	1562.7	1564.2	1565.7	1567.2	1567.3	1566.0	1564.7	1563.4	1562.1	1562.1
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1180.6	1177.0	1173.5	1167.3	1162.0	1154.5	1152.2	1149.6	1141.6	1134.5	1129.1
5°	1252.7	1239.4	1220.0	1202.2	1187.8	1168.4	1157.3	1145.7	1129.0	1114.0	1101.9
7.5°	1328.2	1302.0	1271.9	1239.2	1208.8	1179.5	1155.8	1134.8	1111.5	1089.4	1072.2
10°	1388.1	1350.4	1308.2	1262.7	1223.9	1186.2	1154.5	1126.8	1096.8	1070.7	1049.1
12.5°	1456.5	1400.5	1342.4	1287.1	1241.2	1188.9	1150.6	1115.2	1081.3	1049.9	1025.6
15°	1537.3	1466.3	1397.6	1321.5	1251.6	1186.2	1140.7	1096.3	1056.9	1024.7	993.7
17.5°	1611.0	1530.6	1439.9	1347.5	1263.1	1185.5	1121.9	1071.6	1022.4	983.0	952.0
20°	1652.8	1561.2	1458.6	1362.6	1269.4	1182.8	1113.0	1053.0	999.7	958.1	923.2
22.5°	1688.7	1581.6	1475.4	1372.8	1268.9	1175.7	1096.5	1034.9	977.1	936.4	899.2
25°	1726.0	1597.8	1491.3	1370.9	1255.0	1158.5	1069.7	999.7	942.1	894.4	856.1
27.5°	1757.9	1596.8	1470.3	1340.8	1233.0	1136.2	1041.5	966.5	905.2	853.4	814.6
30°	1779.2	1599.0	1448.6	1320.5	1211.7	1111.8	1019.7	944.3	880.0	827.2	790.6
32.5°	1792.6	1597.6	1428.6	1292.0	1177.9	1089.6	996.2	918.1	852.0	800.1	764.8
35°	1800.3	1587.9	1394.2	1233.3	1123.5	1037.5	959.3	878.2	808.9	760.7	720.7
37.5°	1784.8	1567.3	1354.3	1176.7	1056.5	971.8	906.0	837.0	770.6	717.5	683.1
40°	1760.4	1554.0	1323.2	1136.8	1010.3	928.7	872.7	805.0	739.6	689.1	656.9
42.5°	1713.8	1526.9	1289.1	1092.4	962.4	880.8	829.2	772.7	710.7	663.3	631.1
45°	1600.0	1468.0	1237.8	1025.8	891.5	807.2	761.7	720.7	664.6	618.6	590.8
47.5°	1442.3	1379.3	1163.7	955.6	817.7	736.5	689.3	656.2	615.3	578.1	551.5
50°	1332.6	1306.6	1113.5	907.7	768.4	689.1	643.6	613.6	584.2	547.1	522.6
52.5°	1206.2	1222.2	1054.9	857.9	718.3	640.3	597.5	573.6	546.9	516.4	495.1
55°	1028.1	1086.3	953.7	774.5	643.6	569.2	528.7	507.6	492.1	469.4	451.0
57.5°	861.3	935.4	844.3	688.5	570.2	506.1	467.2	444.3	434.3	422.4	408.0
60°	762.3	835.5	766.2	630.8	521.0	459.9	425.5	406.1	396.2	387.8	375.6
62.5°	674.0	748.1	689.8	572.3	472.5	416.0	386.0	367.0	359.3	355.0	344.5
65°	552.6	616.4	577.6	481.0	403.3	353.4	326.2	312.9	305.7	304.0	297.3
67.5°	449.7	498.3	470.0	399.0	337.9	294.7	271.7	260.3	254.8	254.2	249.2
70°	382.3	427.8	406.1	341.8	289.0	255.2	235.2	225.3	221.9	221.4	218.6
72.5°	329.9	361.6	344.4	290.7	250.0	219.2	204.6	194.2	190.4	191.2	189.3
75°	244.1	268.0	258.0	220.8	188.1	168.1	155.9	149.3	145.9	147.6	145.4
77.5°	175.6	190.8	181.7	156.0	135.8	121.4	112.4	108.3	105.3	105.2	104.2
80°	132.6	141.5	136.5	120.9	104.3	92.1	84.9	82.1	80.5	79.9	79.3
82.5°	94.4	102.0	96.1	85.4	74.1	66.8	62.7	59.0	57.8	58.1	57.6
85°	47.7	50.5	48.3	41.6	37.2	33.8	31.6	29.9	28.9	29.4	28.3
87.5°	20.9	20.6	18.6	16.2	14.8	12.9	12.3	10.9	10.5	11.1	11.2
90°	22.4	18.8	15.3	12.1	9.5	6.7	4.0	1.2	4.0	6.7	9.5
92.5°	43.1	41.2	39.1	37.2	35.3	33.4	31.6	29.8	31.6	33.4	35.3
95°	86.6	84.4	82.3	80.2	78.3	76.4	74.4	72.6	74.4	76.4	78.3
97.5°	139.2	137.6	136.0	134.5	133.1	131.7	130.3	128.8	130.3	131.7	133.1
100°	178.0	176.6	175.3	173.7	172.1	170.5	168.8	167.2	168.8	170.5	172.1
102.5°	220.4	218.6	216.8	215.4	214.4	213.4	212.5	211.5	212.5	213.4	214.4
105°	285.2	282.7	280.3	278.8	278.3	277.7	277.2	276.6	277.2	277.7	278.3
107.5°	356.3	355.3	354.3	353.7	353.4	353.0	352.7	352.4	352.7	353.0	353.4
110°	403.4	402.8	402.3	401.8	401.2	400.6	400.1	399.6	400.1	400.6	401.2





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	450.5	450.4	450.3	450.0	449.7	449.4	449.1	448.7	449.1	449.4	449.7
115°	524.8	525.4	525.9	525.8	525.0	524.2	523.3	522.5	523.3	524.2	525.0
117.5°	597.5	598.2	598.8	598.9	598.4	597.9	597.3	596.8	597.3	597.9	598.4
120°	646.9	648.3	649.7	649.5	647.9	646.3	644.7	643.0	644.7	646.3	647.9
122.5°	694.8	695.5	696.3	696.0	694.8	693.6	692.4	691.2	692.4	693.6	694.8
125°	767.0	767.6	768.1	768.0	767.2	766.4	765.5	764.7	765.5	766.4	767.2
127.5°	838.9	839.5	840.2	839.6	837.8	836.1	834.3	832.6	834.3	836.1	837.8
130°	885.6	886.4	887.2	886.6	884.4	882.2	880.0	877.8	880.0	882.2	884.4
132.5°	931.4	932.0	932.6	931.8	929.6	927.4	925.2	923.1	925.2	927.4	929.6
135°	998.8	999.1	999.4	998.7	997.0	995.4	993.8	992.1	993.8	995.4	997.0
137.5°	1064.0	1063.3	1062.6	1061.5	1060.2	1058.8	1057.4	1056.1	1057.4	1058.8	1060.2
140°	1107.2	1106.9	1106.6	1105.8	1104.4	1103.1	1101.7	1100.3	1101.7	1103.1	1104.4
142.5°	1148.0	1147.5	1147.0	1146.1	1144.8	1143.4	1142.0	1140.7	1142.0	1143.4	1144.8
145°	1208.1	1207.3	1206.5	1205.8	1205.3	1204.7	1204.2	1203.6	1204.2	1204.7	1205.3
147.5°	1265.0	1264.3	1263.5	1262.7	1261.7	1260.6	1259.6	1258.7	1259.6	1260.6	1261.7
150°	1300.9	1300.3	1299.8	1299.3	1298.7	1298.1	1297.6	1297.1	1297.6	1298.1	1298.7
152.5°	1332.8	1332.4	1332.1	1331.5	1330.8	1330.1	1329.3	1328.5	1329.3	1330.1	1330.8
155°	1378.8	1378.6	1378.3	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2
157.5°	1419.5	1419.4	1419.1	1419.2	1419.5	1419.8	1420.2	1420.5	1420.2	1419.8	1419.5
160°	1444.5	1444.5	1444.5	1444.9	1445.4	1445.9	1446.5	1447.1	1446.5	1445.9	1445.4
162.5°	1467.8	1467.5	1467.3	1467.6	1468.4	1469.1	1469.9	1470.6	1469.9	1469.1	1468.4
165°	1497.5	1497.5	1497.5	1497.9	1498.7	1499.5	1500.3	1501.1	1500.3	1499.5	1498.7
167.5°	1521.1	1520.9	1520.7	1521.1	1522.2	1523.3	1524.4	1525.5	1524.4	1523.3	1522.2
170°	1534.3	1534.3	1534.3	1534.9	1535.9	1537.1	1538.1	1539.2	1538.1	1537.1	1535.9
172.5°	1545.2	1545.2	1545.2	1545.7	1546.8	1547.8	1549.0	1550.0	1549.0	1547.8	1546.8
175°	1556.5	1556.5	1556.5	1557.0	1558.1	1559.2	1560.3	1561.4	1560.3	1559.2	1558.1
177.5°	1562.1	1562.1	1562.1	1562.5	1563.4	1564.3	1565.2	1566.0	1565.2	1564.3	1563.4
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1126.0	1122.9	1118.5	1111.8	1106.5	1098.0	1098.0	1099.4	1099.4	1098.9	1098.0
5°	1091.8	1083.5	1073.6	1061.9	1049.7	1037.5	1035.3	1030.9	1027.5	1025.2	1022.5
7.5°	1055.8	1041.1	1026.5	1010.2	995.3	983.0	974.4	967.4	962.8	957.9	954.4
10°	1031.4	1013.1	995.9	978.7	959.8	944.9	935.4	928.7	923.7	919.3	917.1
12.5°	1002.5	981.5	962.6	946.2	925.6	910.2	901.2	898.1	892.3	882.9	878.0
15°	960.3	940.9	918.2	893.2	883.2	864.4	853.9	848.9	845.5	838.3	836.1
17.5°	924.3	898.9	873.3	854.8	836.2	820.9	815.0	808.8	804.4	798.5	796.7
20°	895.4	872.7	849.4	829.4	810.0	793.4	788.4	783.9	779.5	776.7	774.5
22.5°	866.2	843.4	824.1	805.4	784.7	773.8	768.4	763.5	760.4	758.6	756.3
25°	825.0	805.0	783.4	766.7	750.1	742.9	739.6	736.8	734.6	731.8	731.2
27.5°	788.1	766.4	748.9	733.4	721.4	715.3	712.2	710.8	711.3	712.2	712.9
30°	760.7	740.7	726.3	712.9	701.8	696.3	695.7	695.7	698.0	698.5	699.6
32.5°	735.3	718.9	704.5	691.6	683.2	679.4	681.5	681.5	683.3	684.8	686.7
35°	698.5	684.0	672.9	661.9	654.7	656.3	657.5	658.5	661.3	664.6	666.9
37.5°	663.3	650.8	639.3	630.6	627.3	630.2	632.9	635.3	638.5	641.0	643.3
40°	638.1	628.6	617.5	609.8	610.8	612.5	614.7	617.5	620.3	621.9	624.2
42.5°	614.5	604.6	596.2	589.8	591.3	593.5	594.8	596.2	599.4	602.4	603.7
45°	578.7	570.9	563.1	559.2	560.4	561.5	562.6	564.3	567.0	569.2	569.8
47.5°	538.3	533.0	527.7	524.0	525.7	525.3	526.8	530.3	531.2	532.5	535.6
50°	512.7	507.6	501.6	500.4	500.4	500.4	501.0	505.4	505.4	507.6	509.9
52.5°	484.2	481.0	477.1	475.2	474.3	474.3	476.5	478.8	479.7	482.8	485.0
55°	442.2	438.9	435.5	433.8	432.8	433.8	438.3	439.4	442.2	443.8	445.5
57.5°	398.4	395.8	393.1	392.2	392.0	393.5	395.9	399.3	399.9	405.0	407.6
60°	369.5	365.6	363.4	363.4	362.3	367.3	366.2	371.7	372.8	376.2	380.0
62.5°	339.7	334.5	333.6	333.6	335.3	336.6	338.2	340.6	343.6	347.7	350.7
65°	291.8	289.0	292.9	292.4	291.3	294.6	294.6	297.3	300.7	304.6	310.7
67.5°	246.5	245.0	245.3	245.3	247.0	248.9	250.5	252.9	256.9	261.0	265.0
70°	215.8	217.5	214.7	217.0	218.6	219.2	220.3	223.6	228.0	230.8	235.2
72.5°	186.1	186.0	186.3	187.2	188.8	189.9	190.9	194.8	199.6	201.9	205.5
75°	143.2	142.6	144.2	144.2	147.0	148.1	149.3	150.9	155.3	158.7	161.4
77.5°	104.5	105.2	104.8	106.7	106.0	106.2	109.7	111.3	111.8	118.3	119.8
80°	78.8	79.9	80.5	81.0	81.5	80.5	84.3	86.0	86.0	89.8	92.6
82.5°	56.6	57.2	58.7	59.3	59.4	60.5	60.8	62.0	63.3	65.1	68.6
85°	28.3	29.9	30.5	29.9	30.5	29.4	31.1	31.6	32.2	32.2	32.2
87.5°	11.3	12.4	12.6	13.8	14.1	15.2	15.4	14.8	15.0	16.6	14.9
90°	12.1	15.3	18.8	22.4	25.9	29.5	30.6	31.7	32.8	33.9	34.7
92.5°	37.2	39.1	41.2	43.1	45.2	47.2	48.1	48.9	49.8	50.7	51.0
95°	80.2	82.3	84.4	86.6	88.8	91.0	92.0	93.2	94.2	95.3	95.9
97.5°	134.5	136.0	137.6	139.2	140.8	142.4	143.7	144.9	146.1	147.4	148.0
100°	173.7	175.3	176.6	178.0	179.4	180.8	181.6	182.4	183.2	184.0	184.7
102.5°	215.4	216.8	218.6	220.4	222.2	224.0	224.9	225.7	226.5	227.3	227.6
105°	278.8	280.3	282.7	285.2	287.7	290.2	290.2	290.2	290.2	290.2	290.4
107.5°	353.7	354.3	355.3	356.3	357.3	358.2	359.1	360.0	360.9	361.7	362.0
110°	401.8	402.3	402.8	403.4	403.9	404.5	405.6	406.7	407.7	408.9	409.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	450.0	450.3	450.4	450.5	450.6	450.7	452.0	453.3	454.6	455.9	456.6
115°	525.8	525.9	525.4	524.8	524.3	523.7	524.0	524.3	524.6	524.8	524.8
117.5°	598.9	598.8	598.2	597.5	596.7	596.1	596.0	595.9	595.9	595.8	595.4
120°	649.5	649.7	648.3	646.9	645.6	644.2	643.9	643.7	643.4	643.1	642.7
122.5°	696.0	696.3	695.5	694.8	694.1	693.4	692.7	691.9	691.3	690.6	689.8
125°	768.0	768.1	767.6	767.0	766.5	766.0	764.8	763.8	762.6	761.6	760.4
127.5°	839.6	840.2	839.5	838.9	838.4	837.7	836.2	834.7	833.2	831.6	830.2
130°	886.6	887.2	886.4	885.6	884.8	883.9	882.9	881.7	880.7	879.6	878.1
132.5°	931.8	932.6	932.0	931.4	930.7	930.2	928.9	927.6	926.3	925.0	923.6
135°	998.7	999.4	999.1	998.8	998.6	998.3	997.2	996.1	995.0	993.9	993.1
137.5°	1061.5	1062.6	1063.3	1064.0	1064.7	1065.4	1064.3	1063.2	1062.0	1060.9	1059.7
140°	1105.8	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4	1107.2	1106.9	1106.6	1105.5
142.5°	1146.1	1147.0	1147.5	1148.0	1148.5	1149.0	1148.8	1148.5	1148.2	1147.9	1147.0
145°	1205.8	1206.5	1207.3	1208.1	1208.9	1209.7	1209.5	1209.2	1208.9	1208.7	1207.9
147.5°	1262.7	1263.5	1264.3	1265.0	1265.8	1266.6	1266.6	1266.6	1266.6	1266.6	1265.8
150°	1299.3	1299.8	1300.3	1300.9	1301.4	1302.0	1302.0	1302.0	1302.0	1302.0	1301.1
152.5°	1331.5	1332.1	1332.4	1332.8	1333.1	1333.4	1333.9	1334.3	1334.7	1335.2	1334.7
155°	1378.2	1378.3	1378.6	1378.8	1379.2	1379.4	1380.5	1381.6	1382.7	1383.8	1383.4
157.5°	1419.2	1419.1	1419.4	1419.5	1419.8	1420.0	1421.1	1422.3	1423.4	1424.6	1424.4
160°	1444.9	1444.5	1444.5	1444.5	1444.5	1444.5	1445.9	1447.3	1448.7	1450.0	1450.2
162.5°	1467.6	1467.3	1467.5	1467.8	1467.9	1468.2	1469.6	1470.9	1472.3	1473.7	1473.5
165°	1497.9	1497.5	1497.5	1497.5	1497.5	1497.5	1499.1	1500.7	1502.4	1504.0	1503.9
167.5°	1521.1	1520.7	1520.9	1521.1	1521.3	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3
170°	1534.9	1534.3	1534.3	1534.3	1534.3	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0
172.5°	1545.7	1545.2	1545.2	1545.2	1545.2	1545.2	1546.9	1548.5	1550.2	1551.9	1551.8
175°	1557.0	1556.5	1556.5	1556.5	1556.5	1556.5	1558.1	1559.7	1561.4	1563.0	1562.8
177.5°	1562.5	1562.1	1562.1	1562.1	1562.1	1562.1	1563.4	1564.7	1566.0	1567.3	1567.2
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



TEST NUMBER: P332205-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1094.9	1094.5	1097.6	1095.4	1097.6	1094.5	1094.9	1098.0	1098.9	1099.4	1099.4
5°	1019.2	1020.8	1015.3	1015.3	1015.3	1020.8	1019.2	1022.5	1025.2	1027.5	1030.9
7.5°	951.7	949.3	949.5	946.5	949.5	949.3	951.7	954.4	957.9	962.8	967.4
10°	910.4	907.1	906.0	906.5	906.0	907.1	910.4	917.1	919.3	923.7	928.7
12.5°	876.3	875.6	868.3	868.4	868.3	875.6	876.3	878.0	882.9	892.3	898.1
15°	836.1	825.6	824.4	827.8	824.4	825.6	836.1	836.1	838.3	845.5	848.9
17.5°	795.8	790.3	790.6	789.0	790.6	790.3	795.8	796.7	798.5	804.4	808.8
20°	774.5	771.2	770.6	766.7	770.6	771.2	774.5	774.5	776.7	779.5	783.9
22.5°	755.0	753.9	754.2	749.9	754.2	753.9	755.0	756.3	758.6	760.4	763.5
25°	730.7	733.4	731.2	731.2	731.2	733.4	730.7	731.2	731.8	734.6	736.8
27.5°	714.3	714.1	713.1	713.1	713.1	714.1	714.3	712.9	712.2	711.3	710.8
30°	701.8	701.2	702.4	702.4	702.4	701.2	701.8	699.6	698.5	698.0	695.7
32.5°	689.4	690.2	690.4	690.8	690.4	690.2	689.4	686.7	684.8	683.3	681.5
35°	670.2	670.7	672.5	671.3	672.5	670.7	670.2	666.9	664.6	661.3	658.5
37.5°	644.2	646.8	646.2	647.1	646.2	646.8	644.2	643.3	641.0	638.5	635.3
40°	624.7	626.4	625.8	625.8	625.8	626.4	624.7	624.2	621.9	620.3	617.5
42.5°	604.7	605.9	604.5	603.6	604.5	605.9	604.7	603.7	602.4	599.4	596.2
45°	572.0	570.9	572.6	570.3	572.6	570.9	572.0	569.8	569.2	567.0	564.3
47.5°	535.4	536.5	537.0	538.6	537.0	536.5	535.4	535.6	532.5	531.2	530.3
50°	510.9	514.3	514.3	513.7	514.3	514.3	510.9	509.9	507.6	505.4	505.4
52.5°	487.0	488.5	490.8	490.6	490.8	488.5	487.0	485.0	482.8	479.7	478.8
55°	450.0	451.0	452.2	452.7	452.2	451.0	450.0	445.5	443.8	442.2	439.4
57.5°	411.6	411.1	413.8	414.6	413.8	411.1	411.6	407.6	405.0	399.9	399.3
60°	384.5	384.5	388.9	390.6	388.9	384.5	384.5	380.0	376.2	372.8	371.7
62.5°	355.6	357.4	361.8	359.5	361.8	357.4	355.6	350.7	347.7	343.6	340.6
65°	313.5	317.9	317.3	319.6	317.3	317.9	313.5	310.7	304.6	300.7	297.3
67.5°	269.4	272.1	276.1	276.5	276.1	272.1	269.4	265.0	261.0	256.9	252.9
70°	239.7	242.5	244.7	246.3	244.7	242.5	239.7	235.2	230.8	228.0	223.6
72.5°	210.8	212.3	217.6	215.2	217.6	212.3	210.8	205.5	201.9	199.6	194.8
75°	165.3	169.2	172.5	170.9	172.5	169.2	165.3	161.4	158.7	155.3	150.9
77.5°	122.3	126.1	127.7	126.3	127.7	126.1	122.3	119.8	118.3	111.8	111.3
80°	96.5	96.0	99.3	98.7	99.3	96.0	96.5	92.6	89.8	86.0	86.0
82.5°	70.8	70.3	71.8	72.2	71.8	70.3	70.8	68.6	65.1	63.3	62.0
85°	34.4	36.0	33.8	33.3	33.8	36.0	34.4	32.2	32.2	32.2	31.6
87.5°	15.0	15.2	14.8	14.5	14.8	15.2	15.0	14.9	16.6	15.0	14.8
90°	35.2	35.8	36.4	36.9	36.4	35.8	35.2	34.7	33.9	32.8	31.7
92.5°	50.6	50.3	50.0	49.7	50.0	50.3	50.6	51.0	50.7	49.8	48.9
95°	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.3	94.2	93.2
97.5°	147.9	147.7	147.7	147.6	147.7	147.7	147.9	148.0	147.4	146.1	144.9
100°	185.2	185.8	186.3	186.9	186.3	185.8	185.2	184.7	184.0	183.2	182.4
102.5°	227.6	227.4	227.3	227.2	227.3	227.4	227.6	227.6	227.3	226.5	225.7
105°	291.0	291.6	292.0	292.6	292.0	291.6	291.0	290.4	290.2	290.2	290.2
107.5°	361.7	361.3	361.0	360.7	361.0	361.3	361.7	362.0	361.7	360.9	360.0
110°	408.5	408.1	407.5	406.9	407.5	408.1	408.5	409.1	408.9	407.7	406.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	456.5	456.3	456.2	456.1	456.2	456.3	456.5	456.6	455.9	454.6	453.3
115°	524.6	524.3	524.0	523.7	524.0	524.3	524.6	524.8	524.8	524.6	524.3
117.5°	594.6	593.9	593.1	592.3	593.1	593.9	594.6	595.4	595.8	595.9	595.9
120°	642.2	641.6	641.1	640.5	641.1	641.6	642.2	642.7	643.1	643.4	643.7
122.5°	689.1	688.3	687.5	686.7	687.5	688.3	689.1	689.8	690.6	691.3	691.9
125°	759.4	758.3	757.2	756.1	757.2	758.3	759.4	760.4	761.6	762.6	763.8
127.5°	829.0	827.7	826.5	825.2	826.5	827.7	829.0	830.2	831.6	833.2	834.7
130°	876.2	874.2	872.4	870.4	872.4	874.2	876.2	878.1	879.6	880.7	881.7
132.5°	922.1	920.6	919.1	917.6	919.1	920.6	922.1	923.6	925.0	926.3	927.6
135°	992.5	992.0	991.5	990.9	991.5	992.0	992.5	993.1	993.9	995.0	996.1
137.5°	1058.7	1057.7	1056.6	1055.6	1056.6	1057.7	1058.7	1059.7	1060.9	1062.0	1063.2
140°	1103.6	1101.7	1099.8	1097.9	1099.8	1101.7	1103.6	1105.5	1106.6	1106.9	1107.2
142.5°	1145.6	1144.1	1142.6	1141.2	1142.6	1144.1	1145.6	1147.0	1147.9	1148.2	1148.5
145°	1206.9	1205.8	1204.7	1203.6	1204.7	1205.8	1206.9	1207.9	1208.7	1208.9	1209.2
147.5°	1264.1	1262.5	1260.8	1259.1	1260.8	1262.5	1264.1	1265.8	1266.6	1266.6	1266.6
150°	1299.5	1297.9	1296.2	1294.6	1296.2	1297.9	1299.5	1301.1	1302.0	1302.0	1302.0
152.5°	1333.3	1331.9	1330.4	1329.0	1330.4	1331.9	1333.3	1334.7	1335.2	1334.7	1334.3
155°	1381.4	1379.6	1377.6	1375.7	1377.6	1379.6	1381.4	1383.4	1383.8	1382.7	1381.6
157.5°	1422.9	1421.3	1419.8	1418.3	1419.8	1421.3	1422.9	1424.4	1424.6	1423.4	1422.3
160°	1449.1	1448.0	1446.9	1445.8	1446.9	1448.0	1449.1	1450.2	1450.0	1448.7	1447.3
162.5°	1471.7	1470.0	1468.2	1466.5	1468.2	1470.0	1471.7	1473.5	1473.7	1472.3	1470.9
165°	1501.9	1500.1	1498.1	1496.2	1498.1	1500.1	1501.9	1503.9	1504.0	1502.4	1500.7
167.5°	1526.6	1524.9	1523.2	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3	1526.6	1524.9
170°	1540.1	1538.1	1536.3	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0	1540.1	1538.1
172.5°	1549.9	1548.0	1546.1	1544.2	1546.1	1548.0	1549.9	1551.8	1551.9	1550.2	1548.5
175°	1561.0	1559.0	1557.1	1555.3	1557.1	1559.0	1561.0	1562.8	1563.0	1561.4	1559.7
177.5°	1565.7	1564.2	1562.7	1561.1	1562.7	1564.2	1565.7	1567.2	1567.3	1566.0	1564.7
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1098.0	1098.0	1106.5	1111.8	1118.5	1122.9	1126.0	1129.1	1134.5	1141.6	1149.6
5°	1035.3	1037.5	1049.7	1061.9	1073.6	1083.5	1091.8	1101.9	1114.0	1129.0	1145.7
7.5°	974.4	983.0	995.3	1010.2	1026.5	1041.1	1055.8	1072.2	1089.4	1111.5	1134.8
10°	935.4	944.9	959.8	978.7	995.9	1013.1	1031.4	1049.1	1070.7	1096.8	1126.8
12.5°	901.2	910.2	925.6	946.2	962.6	981.5	1002.5	1025.6	1049.9	1081.3	1115.2
15°	853.9	864.4	883.2	893.2	918.2	940.9	960.3	993.7	1024.7	1056.9	1096.3
17.5°	815.0	820.9	836.2	854.8	873.3	898.9	924.3	952.0	983.0	1022.4	1071.6
20°	788.4	793.4	810.0	829.4	849.4	872.7	895.4	923.2	958.1	999.7	1053.0
22.5°	768.4	773.8	784.7	805.4	824.1	843.4	866.2	899.2	936.4	977.1	1034.9
25°	739.6	742.9	750.1	766.7	783.4	805.0	825.0	856.1	894.4	942.1	999.7
27.5°	712.2	715.3	721.4	733.4	748.9	766.4	788.1	814.6	853.4	905.2	966.5
30°	695.7	696.3	701.8	712.9	726.3	740.7	760.7	790.6	827.2	880.0	944.3
32.5°	681.5	679.4	683.2	691.6	704.5	718.9	735.3	764.8	800.1	852.0	918.1
35°	657.5	656.3	654.7	661.9	672.9	684.0	698.5	720.7	760.7	808.9	878.2
37.5°	632.9	630.2	627.3	630.6	639.3	650.8	663.3	683.1	717.5	770.6	837.0
40°	614.7	612.5	610.8	609.8	617.5	628.6	638.1	656.9	689.1	739.6	805.0
42.5°	594.8	593.5	591.3	589.8	596.2	604.6	614.5	631.1	663.3	710.7	772.7
45°	562.6	561.5	560.4	559.2	563.1	570.9	578.7	590.8	618.6	664.6	720.7
47.5°	526.8	525.3	525.7	524.0	527.7	533.0	538.3	551.5	578.1	615.3	656.2
50°	501.0	500.4	500.4	500.4	501.6	507.6	512.7	522.6	547.1	584.2	613.6
52.5°	476.5	474.3	474.3	475.2	477.1	481.0	484.2	495.1	516.4	546.9	573.6
55°	438.3	433.8	432.8	433.8	435.5	438.9	442.2	451.0	469.4	492.1	507.6
57.5°	395.9	393.5	392.0	392.2	393.1	395.8	398.4	408.0	422.4	434.3	444.3
60°	366.2	367.3	362.3	363.4	363.4	365.6	369.5	375.6	387.8	396.2	406.1
62.5°	338.2	336.6	335.3	333.6	333.6	334.5	339.7	344.5	355.0	359.3	367.0
65°	294.6	294.6	291.3	292.4	292.9	289.0	291.8	297.3	304.0	305.7	312.9
67.5°	250.5	248.9	247.0	245.3	245.3	245.0	246.5	249.2	254.2	254.8	260.3
70°	220.3	219.2	218.6	217.0	214.7	217.5	215.8	218.6	221.4	221.9	225.3
72.5°	190.9	189.9	188.8	187.2	186.3	186.0	186.1	189.3	191.2	190.4	194.2
75°	149.3	148.1	147.0	144.2	144.2	142.6	143.2	145.4	147.6	145.9	149.3
77.5°	109.7	106.2	106.0	106.7	104.8	105.2	104.5	104.2	105.2	105.3	108.3
80°	84.3	80.5	81.5	81.0	80.5	79.9	78.8	79.3	79.9	80.5	82.1
82.5°	60.8	60.5	59.4	59.3	58.7	57.2	56.6	57.6	58.1	57.8	59.0
85°	31.1	29.4	30.5	29.9	30.5	29.9	28.3	28.3	29.4	28.9	29.9
87.5°	15.4	15.2	14.1	13.8	12.6	12.4	11.3	11.2	11.1	10.5	10.9
90°	30.6	29.5	25.9	22.4	18.8	15.3	12.1	9.5	6.7	4.0	1.2
92.5°	48.1	47.2	45.2	43.1	41.2	39.1	37.2	35.3	33.4	31.6	29.8
95°	92.0	91.0	88.8	86.6	84.4	82.3	80.2	78.3	76.4	74.4	72.6
97.5°	143.7	142.4	140.8	139.2	137.6	136.0	134.5	133.1	131.7	130.3	128.8
100°	181.6	180.8	179.4	178.0	176.6	175.3	173.7	172.1	170.5	168.8	167.2
102.5°	224.9	224.0	222.2	220.4	218.6	216.8	215.4	214.4	213.4	212.5	211.5
105°	290.2	290.2	287.7	285.2	282.7	280.3	278.8	278.3	277.7	277.2	276.6
107.5°	359.1	358.2	357.3	356.3	355.3	354.3	353.7	353.4	353.0	352.7	352.4
110°	405.6	404.5	403.9	403.4	402.8	402.3	401.8	401.2	400.6	400.1	399.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	452.0	450.7	450.6	450.5	450.4	450.3	450.0	449.7	449.4	449.1	448.7
115°	524.0	523.7	524.3	524.8	525.4	525.9	525.8	525.0	524.2	523.3	522.5
117.5°	596.0	596.1	596.7	597.5	598.2	598.8	598.9	598.4	597.9	597.3	596.8
120°	643.9	644.2	645.6	646.9	648.3	649.7	649.5	647.9	646.3	644.7	643.0
122.5°	692.7	693.4	694.1	694.8	695.5	696.3	696.0	694.8	693.6	692.4	691.2
125°	764.8	766.0	766.5	767.0	767.6	768.1	768.0	767.2	766.4	765.5	764.7
127.5°	836.2	837.7	838.4	838.9	839.5	840.2	839.6	837.8	836.1	834.3	832.6
130°	882.9	883.9	884.8	885.6	886.4	887.2	886.6	884.4	882.2	880.0	877.8
132.5°	928.9	930.2	930.7	931.4	932.0	932.6	931.8	929.6	927.4	925.2	923.1
135°	997.2	998.3	998.6	998.8	999.1	999.4	998.7	997.0	995.4	993.8	992.1
137.5°	1064.3	1065.4	1064.7	1064.0	1063.3	1062.6	1061.5	1060.2	1058.8	1057.4	1056.1
140°	1107.4	1107.7	1107.4	1107.2	1106.9	1106.6	1105.8	1104.4	1103.1	1101.7	1100.3
142.5°	1148.8	1149.0	1148.5	1148.0	1147.5	1147.0	1146.1	1144.8	1143.4	1142.0	1140.7
145°	1209.5	1209.7	1208.9	1208.1	1207.3	1206.5	1205.8	1205.3	1204.7	1204.2	1203.6
147.5°	1266.6	1266.6	1265.8	1265.0	1264.3	1263.5	1262.7	1261.7	1260.6	1259.6	1258.7
150°	1302.0	1302.0	1301.4	1300.9	1300.3	1299.8	1299.3	1298.7	1298.1	1297.6	1297.1
152.5°	1333.9	1333.4	1333.1	1332.8	1332.4	1332.1	1331.5	1330.8	1330.1	1329.3	1328.5
155°	1380.5	1379.4	1379.2	1378.8	1378.6	1378.3	1378.2	1378.2	1378.2	1378.2	1378.2
157.5°	1421.1	1420.0	1419.8	1419.5	1419.4	1419.1	1419.2	1419.5	1419.8	1420.2	1420.5
160°	1445.9	1444.5	1444.5	1444.5	1444.5	1444.5	1444.9	1445.4	1445.9	1446.5	1447.1
162.5°	1469.6	1468.2	1467.9	1467.8	1467.5	1467.3	1467.6	1468.4	1469.1	1469.9	1470.6
165°	1499.1	1497.5	1497.5	1497.5	1497.5	1497.5	1497.9	1498.7	1499.5	1500.3	1501.1
167.5°	1523.2	1521.5	1521.3	1521.1	1520.9	1520.7	1521.1	1522.2	1523.3	1524.4	1525.5
170°	1536.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.9	1535.9	1537.1	1538.1	1539.2
172.5°	1546.9	1545.2	1545.2	1545.2	1545.2	1545.2	1545.7	1546.8	1547.8	1549.0	1550.0
175°	1558.1	1556.5	1556.5	1556.5	1556.5	1556.5	1557.0	1558.1	1559.2	1560.3	1561.4
177.5°	1563.4	1562.1	1562.1	1562.1	1562.1	1562.1	1562.5	1563.4	1564.3	1565.2	1566.0
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1152.2	1154.5	1162.0	1167.3	1173.5	1177.0	1180.6	1183.3	1186.8	1187.7	1200.6
5°	1157.3	1168.4	1187.8	1202.2	1220.0	1239.4	1252.7	1258.8	1275.0	1288.3	1314.9
7.5°	1155.8	1179.5	1208.8	1239.2	1271.9	1302.0	1328.2	1359.3	1381.4	1414.5	1447.2
10°	1154.5	1186.2	1223.9	1262.7	1308.2	1350.4	1388.1	1430.3	1465.3	1511.3	1550.7
12.5°	1150.6	1188.9	1241.2	1287.1	1342.4	1400.5	1456.5	1510.6	1541.6	1618.3	1654.6
15°	1140.7	1186.2	1251.6	1321.5	1397.6	1466.3	1537.3	1594.0	1685.5	1752.6	1795.4
17.5°	1121.9	1185.5	1263.1	1347.5	1439.9	1530.6	1611.0	1697.0	1794.0	1875.3	1961.8
20°	1113.0	1182.8	1269.4	1362.6	1458.6	1561.2	1652.8	1756.0	1861.9	1941.8	2052.8
22.5°	1096.5	1175.7	1268.9	1372.8	1475.4	1581.6	1688.7	1792.8	1915.2	2025.3	2130.9
25°	1069.7	1158.5	1255.0	1370.9	1491.3	1597.8	1726.0	1864.2	1991.8	2133.2	2238.6
27.5°	1041.5	1136.2	1233.0	1340.8	1470.3	1596.8	1757.9	1914.1	2070.0	2192.3	2270.3
30°	1019.7	1111.8	1211.7	1320.5	1448.6	1599.0	1779.2	1949.5	2101.6	2206.4	2250.3
32.5°	996.2	1089.6	1177.9	1292.0	1428.6	1597.6	1792.6	1970.4	2103.4	2173.2	2164.6
35°	959.3	1037.5	1123.5	1233.3	1394.2	1587.9	1800.3	1972.3	2053.9	2038.9	1925.7
37.5°	906.0	971.8	1056.5	1176.7	1354.3	1567.3	1784.8	1913.8	1908.5	1786.6	1622.6
40°	872.7	928.7	1010.3	1136.8	1323.2	1554.0	1760.4	1844.2	1773.2	1602.8	1406.4
42.5°	829.2	880.8	962.4	1092.4	1289.1	1526.9	1713.8	1738.1	1599.1	1403.1	1223.1
45°	761.7	807.2	891.5	1025.8	1237.8	1468.0	1600.0	1540.7	1353.7	1151.2	1014.2
47.5°	689.3	736.5	817.7	955.6	1163.7	1379.3	1442.3	1316.0	1124.1	959.8	834.0
50°	643.6	689.1	768.4	907.7	1113.5	1306.6	1332.6	1169.5	993.1	848.9	745.7
52.5°	597.5	640.3	718.3	857.9	1054.9	1222.2	1206.2	1039.9	877.7	754.7	673.8
55°	528.7	569.2	643.6	774.5	953.7	1086.3	1028.1	869.4	735.2	639.7	578.1
57.5°	467.2	506.1	570.2	688.5	844.3	935.4	861.3	727.6	620.9	547.4	501.4
60°	425.5	459.9	521.0	630.8	766.2	835.5	762.3	644.2	554.2	495.5	454.4
62.5°	386.0	416.0	472.5	572.3	689.8	748.1	674.0	574.0	497.4	445.3	410.4
65°	326.2	353.4	403.3	481.0	577.6	616.4	552.6	471.6	412.2	373.4	350.1
67.5°	271.7	294.7	337.9	399.0	470.0	498.3	449.7	387.0	342.3	311.1	292.6
70°	235.2	255.2	289.0	341.8	406.1	427.8	382.3	330.7	297.9	273.0	255.8
72.5°	204.6	219.2	250.0	290.7	344.4	361.6	329.9	284.5	254.0	235.2	221.6
75°	155.9	168.1	188.1	220.8	258.0	268.0	244.1	215.8	195.3	182.0	171.5
77.5°	112.4	121.4	135.8	156.0	181.7	190.8	175.6	156.8	141.8	132.8	126.9
80°	84.9	92.1	104.3	120.9	136.5	141.5	132.6	118.1	107.6	102.6	97.7
82.5°	62.7	66.8	74.1	85.4	96.1	102.0	94.4	85.8	80.1	75.6	73.7
85°	31.6	33.8	37.2	41.6	48.3	50.5	47.7	45.5	42.2	39.4	39.4
87.5°	12.3	12.9	14.8	16.2	18.6	20.6	20.9	20.7	21.0	20.8	20.5
90°	4.0	6.7	9.5	12.1	15.3	18.8	22.4	25.9	29.5	30.6	31.7
92.5°	31.6	33.4	35.3	37.2	39.1	41.2	43.1	45.2	47.2	48.1	48.9
95°	74.4	76.4	78.3	80.2	82.3	84.4	86.6	88.8	91.0	92.0	93.2
97.5°	130.3	131.7	133.1	134.5	136.0	137.6	139.2	140.8	142.4	143.7	144.9
100°	168.8	170.5	172.1	173.7	175.3	176.6	178.0	179.4	180.8	181.6	182.4
102.5°	212.5	213.4	214.4	215.4	216.8	218.6	220.4	222.2	224.0	224.9	225.7
105°	277.2	277.7	278.3	278.8	280.3	282.7	285.2	287.7	290.2	290.2	290.2
107.5°	352.7	353.0	353.4	353.7	354.3	355.3	356.3	357.3	358.2	359.1	360.0
110°	400.1	400.6	401.2	401.8	402.3	402.8	403.4	403.9	404.5	405.6	406.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	449.1	449.4	449.7	450.0	450.3	450.4	450.5	450.6	450.7	452.0	453.3
115°	523.3	524.2	525.0	525.8	525.9	525.4	524.8	524.3	523.7	524.0	524.3
117.5°	597.3	597.9	598.4	598.9	598.8	598.2	597.5	596.7	596.1	596.0	595.9
120°	644.7	646.3	647.9	649.5	649.7	648.3	646.9	645.6	644.2	643.9	643.7
122.5°	692.4	693.6	694.8	696.0	696.3	695.5	694.8	694.1	693.4	692.7	691.9
125°	765.5	766.4	767.2	768.0	768.1	767.6	767.0	766.5	766.0	764.8	763.8
127.5°	834.3	836.1	837.8	839.6	840.2	839.5	838.9	838.4	837.7	836.2	834.7
130°	880.0	882.2	884.4	886.6	887.2	886.4	885.6	884.8	883.9	882.9	881.7
132.5°	925.2	927.4	929.6	931.8	932.6	932.0	931.4	930.7	930.2	928.9	927.6
135°	993.8	995.4	997.0	998.7	999.4	999.1	998.8	998.6	998.3	997.2	996.1
137.5°	1057.4	1058.8	1060.2	1061.5	1062.6	1063.3	1064.0	1064.7	1065.4	1064.3	1063.2
140°	1101.7	1103.1	1104.4	1105.8	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4	1107.2
142.5°	1142.0	1143.4	1144.8	1146.1	1147.0	1147.5	1148.0	1148.5	1149.0	1148.8	1148.5
145°	1204.2	1204.7	1205.3	1205.8	1206.5	1207.3	1208.1	1208.9	1209.7	1209.5	1209.2
147.5°	1259.6	1260.6	1261.7	1262.7	1263.5	1264.3	1265.0	1265.8	1266.6	1266.6	1266.6
150°	1297.6	1298.1	1298.7	1299.3	1299.8	1300.3	1300.9	1301.4	1302.0	1302.0	1302.0
152.5°	1329.3	1330.1	1330.8	1331.5	1332.1	1332.4	1332.8	1333.1	1333.4	1333.9	1334.3
155°	1378.2	1378.2	1378.2	1378.2	1378.3	1378.6	1378.8	1379.2	1379.4	1380.5	1381.6
157.5°	1420.2	1419.8	1419.5	1419.2	1419.1	1419.4	1419.5	1419.8	1420.0	1421.1	1422.3
160°	1446.5	1445.9	1445.4	1444.9	1444.5	1444.5	1444.5	1444.5	1444.5	1445.9	1447.3
162.5°	1469.9	1469.1	1468.4	1467.6	1467.3	1467.5	1467.8	1467.9	1468.2	1469.6	1470.9
165°	1500.3	1499.5	1498.7	1497.9	1497.5	1497.5	1497.5	1497.5	1497.5	1499.1	1500.7
167.5°	1524.4	1523.3	1522.2	1521.1	1520.7	1520.9	1521.1	1521.3	1521.5	1523.2	1524.9
170°	1538.1	1537.1	1535.9	1534.9	1534.3	1534.3	1534.3	1534.3	1534.3	1536.3	1538.1
172.5°	1549.0	1547.8	1546.8	1545.7	1545.2	1545.2	1545.2	1545.2	1545.2	1546.9	1548.5
175°	1560.3	1559.2	1558.1	1557.0	1556.5	1556.5	1556.5	1556.5	1556.5	1558.1	1559.7
177.5°	1565.2	1564.3	1563.4	1562.5	1562.1	1562.1	1562.1	1562.1	1562.1	1563.4	1564.7
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1205.0	1205.5	1210.4	1213.9	1212.1	1214.4	1215.2
5°	1316.5	1336.5	1347.0	1354.9	1355.4	1355.9	1360.4
7.5°	1474.6	1496.1	1511.7	1535.5	1542.5	1550.7	1548.3
10°	1590.1	1621.7	1648.9	1663.3	1678.9	1701.6	1683.3
12.5°	1697.9	1754.0	1795.4	1817.8	1832.4	1837.0	1828.0
15°	1875.8	1949.1	1988.4	1987.3	2037.3	2058.9	2025.0
17.5°	2038.9	2106.5	2160.6	2188.3	2230.0	2239.2	2235.0
20°	2138.8	2212.6	2254.7	2302.4	2324.1	2343.5	2346.8
22.5°	2224.9	2291.2	2336.4	2376.1	2394.2	2403.4	2409.0
25°	2313.5	2365.7	2392.9	2406.8	2411.7	2410.6	2403.4
27.5°	2307.5	2311.5	2281.5	2252.1	2225.8	2196.2	2185.9
30°	2247.5	2200.9	2117.7	2070.5	2001.2	1946.3	1968.5
32.5°	2089.9	1997.2	1903.7	1800.7	1715.3	1691.0	1666.6
35°	1783.7	1620.6	1525.2	1414.2	1369.8	1325.4	1294.9
37.5°	1443.1	1316.9	1203.7	1131.1	1086.6	1058.6	1043.5
40°	1247.7	1134.0	1040.8	982.0	948.2	916.6	912.1
42.5°	1091.9	986.2	916.1	869.3	836.7	823.3	813.6
45°	894.4	820.5	773.4	740.1	718.4	710.1	699.0
47.5°	757.0	704.8	669.4	646.8	630.5	624.3	623.4
50°	680.2	636.9	610.8	593.0	580.3	578.1	569.2
52.5°	622.5	585.0	564.7	549.2	540.0	533.7	531.1
55°	540.4	515.4	497.1	488.2	481.0	474.9	474.9
57.5°	472.8	451.9	439.9	432.3	430.1	425.7	423.0
60°	431.0	413.4	403.9	397.2	392.8	393.4	388.3
62.5°	390.3	378.7	369.7	363.1	357.8	357.8	358.2
65°	332.3	323.4	316.8	314.5	311.3	307.4	308.5
67.5°	281.6	273.3	268.1	264.3	263.2	261.1	264.3
70°	245.2	239.1	235.2	231.9	230.8	231.4	234.2
72.5°	211.9	207.6	205.0	203.5	201.1	201.1	203.1
75°	166.4	163.1	160.9	159.2	158.7	158.7	158.7
77.5°	122.3	121.5	120.5	118.1	118.1	118.9	119.0
80°	96.5	94.9	94.3	93.2	91.6	90.4	93.2
82.5°	72.2	70.4	69.9	69.7	67.1	66.9	69.2
85°	38.8	37.2	37.7	37.2	37.2	36.6	36.6
87.5°	20.3	20.1	19.8	20.4	20.1	19.7	20.7
90°	32.8	33.9	34.7	35.2	35.8	36.4	36.9
92.5°	49.8	50.7	51.0	50.6	50.3	50.0	49.7
95°	94.2	95.3	95.9	95.9	95.9	95.9	95.9
97.5°	146.1	147.4	148.0	147.9	147.7	147.7	147.6
100°	183.2	184.0	184.7	185.2	185.8	186.3	186.9
102.5°	226.5	227.3	227.6	227.6	227.4	227.3	227.2
105°	290.2	290.2	290.4	291.0	291.6	292.0	292.6
107.5°	360.9	361.7	362.0	361.7	361.3	361.0	360.7
110°	407.7	408.9	409.1	408.5	408.1	407.5	406.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.6	455.9	456.6	456.5	456.3	456.2	456.1
115°	524.6	524.8	524.8	524.6	524.3	524.0	523.7
117.5°	595.9	595.8	595.4	594.6	593.9	593.1	592.3
120°	643.4	643.1	642.7	642.2	641.6	641.1	640.5
122.5°	691.3	690.6	689.8	689.1	688.3	687.5	686.7
125°	762.6	761.6	760.4	759.4	758.3	757.2	756.1
127.5°	833.2	831.6	830.2	829.0	827.7	826.5	825.2
130°	880.7	879.6	878.1	876.2	874.2	872.4	870.4
132.5°	926.3	925.0	923.6	922.1	920.6	919.1	917.6
135°	995.0	993.9	993.1	992.5	992.0	991.5	990.9
137.5°	1062.0	1060.9	1059.7	1058.7	1057.7	1056.6	1055.6
140°	1106.9	1106.6	1105.5	1103.6	1101.7	1099.8	1097.9
142.5°	1148.2	1147.9	1147.0	1145.6	1144.1	1142.6	1141.2
145°	1208.9	1208.7	1207.9	1206.9	1205.8	1204.7	1203.6
147.5°	1266.6	1266.6	1265.8	1264.1	1262.5	1260.8	1259.1
150°	1302.0	1302.0	1301.1	1299.5	1297.9	1296.2	1294.6
152.5°	1334.7	1335.2	1334.7	1333.3	1331.9	1330.4	1329.0
155°	1382.7	1383.8	1383.4	1381.4	1379.6	1377.6	1375.7
157.5°	1423.4	1424.6	1424.4	1422.9	1421.3	1419.8	1418.3
160°	1448.7	1450.0	1450.2	1449.1	1448.0	1446.9	1445.8
162.5°	1472.3	1473.7	1473.5	1471.7	1470.0	1468.2	1466.5
165°	1502.4	1504.0	1503.9	1501.9	1500.1	1498.1	1496.2
167.5°	1526.6	1528.3	1528.3	1526.6	1524.9	1523.2	1521.5
170°	1540.1	1542.0	1542.0	1540.1	1538.1	1536.3	1534.3
172.5°	1550.2	1551.9	1551.8	1549.9	1548.0	1546.1	1544.2
175°	1561.4	1563.0	1562.8	1561.0	1559.0	1557.1	1555.3
177.5°	1566.0	1567.3	1567.2	1565.7	1564.2	1562.7	1561.1
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0

(END OF REPORT)