

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: P333108-927

Luminaire Tested: **S124RDIW-S1195D1340U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333108-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S1195D1340U927-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

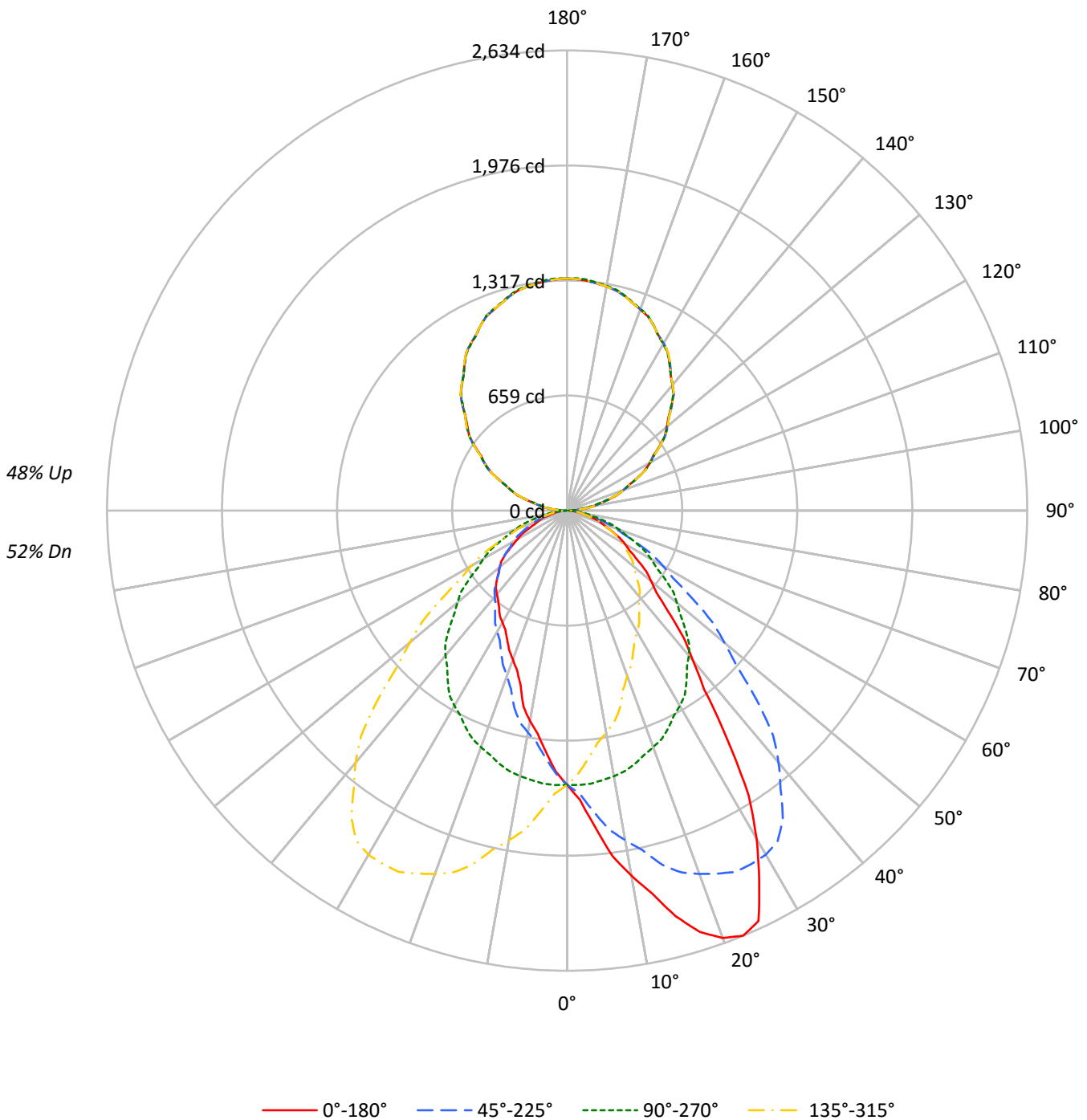
Lumens per Lamp: N/A  
Luminaire Lumens: 7657.6 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 76.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58	52
1	99	95	91	87	91	88	84	82	75	72	70	63	61	60	52	51	50	45
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	44	43	38
3	83	73	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37	33
4	76	65	58	52	70	61	54	49	52	47	43	45	41	37	37	34	32	29
5	70	58	50	45	64	54	47	42	47	42	37	40	36	33	34	31	28	25
6	64	52	45	39	59	49	42	37	43	37	33	36	32	29	31	27	25	22
7	60	47	40	34	55	44	37	32	39	33	29	33	29	26	28	25	22	20
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	17	15

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

	0°	90°	180°	270°
0°	12674	12674	12674	12674
5°	14699	12712	11235	12712
10°	17390	12656	10027	12656
15°	20088	12538	8616	12538
20°	22365	12378	7792	12378
25°	23087	12219	7234	12219
30°	20211	12028	6898	12028
35°	15733	11744	6695	11744
40°	11798	11418	6585	11418
45°	9315	10896	6528	10896
50°	7863	10295	6339	10295
55°	6854	9633	6000	9633
60°	6168	8946	5310	8946
65°	5436	8202	4567	8202
70°	4898	7435	4121	7435
75°	4105	6591	3512	6591
80°	3468	5616	3292	5616
85°	2927	4400	2927	4400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	2.0
10°-20°	458.8	6.0
20°-30°	717.6	9.4
30°-40°	797.8	10.4
40°-50°	707.8	9.2
50°-60°	551.5	7.2
60°-70°	361.1	4.7
70°-80°	177.6	2.3
80°-90°	47.8	0.6
90°-100°	87.6	1.1
100°-110°	259.5	3.4
110°-120°	440.5	5.8
120°-130°	580.9	7.6
130°-140°	652.4	8.5
140°-150°	641.1	8.4
150°-160°	539.2	7.0
160°-170°	358.7	4.7
170°-180°	125.6	1.6
0°-30°	1328.5	17.3
0°-40°	2126.3	27.8
0°-60°	3385.7	44.2
0°-90°	3972.1	51.9
90°-120°	787.7	10.3
90°-150°	2662.0	34.8
90°-180°	3686.0	48.1
0°-180°	7657.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1570	1570	1570	1570	1570	
5°	1814	1569	1386	1569	1814	183
15°	2404	1500	1031	1500	2404	683
25°	2592	1372	812	1372	2592	1150
35°	1596	1192	679	1192	1596	1001
45°	816	954	572	954	816	646
55°	487	684	426	684	487	443
65°	285	429	239	429	285	286
75°	132	211	113	211	132	145
85°	32	48	32	48	32	36
90°	31	3	31	3	31	17
95°	81	62	81	62	81	85
105°	251	239	251	239	251	264
115°	444	448	444	448	444	439
125°	647	652	647	652	647	577
135°	842	841	842	841	842	651
145°	1023	1022	1023	1022	1023	640
155°	1170	1171	1170	1171	1170	539
165°	1272	1275	1272	1275	1272	358
175°	1320	1326	1320	1326	1320	125
180°	1328	1328	1328	1328	1328	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1655.8	1660.4	1655.8	1655.3	1650.3	1648.8	1646.7	1640.1	1628.0	1621.0	1622.5
5°	1813.9	1829.8	1820.9	1819.6	1805.8	1791.8	1783.0	1762.8	1741.2	1726.7	1714.7
7.5°	1996.9	2006.0	2000.4	1991.5	1969.0	1956.3	1935.8	1909.1	1870.5	1841.0	1814.1
10°	2121.4	2128.9	2126.5	2110.0	2093.5	2060.0	2041.1	2003.7	1955.0	1916.4	1880.4
12.5°	2243.8	2251.9	2229.7	2230.4	2199.3	2172.9	2142.8	2095.8	2039.6	1989.8	1944.6
15°	2403.5	2393.3	2393.3	2380.7	2345.9	2309.2	2278.2	2228.9	2158.1	2098.6	2036.0
17.5°	2528.4	2532.0	2526.7	2497.0	2469.6	2431.7	2374.9	2317.3	2251.5	2171.7	2107.7
20°	2603.3	2603.3	2597.6	2577.4	2542.0	2501.5	2440.2	2377.5	2294.0	2213.7	2141.6
22.5°	2633.7	2635.7	2629.0	2612.3	2580.5	2540.9	2488.7	2425.1	2339.1	2248.6	2159.3
25°	2591.9	2604.0	2605.2	2600.8	2591.3	2567.2	2522.4	2457.2	2380.0	2282.0	2185.9
27.5°	2379.6	2394.8	2408.2	2430.0	2459.1	2474.3	2476.3	2443.2	2375.8	2281.5	2184.8
30°	2168.1	2180.8	2221.9	2275.7	2317.5	2355.4	2388.3	2397.1	2359.2	2274.4	2172.6
32.5°	1933.4	1950.6	1991.7	2049.5	2119.1	2183.3	2257.2	2294.9	2293.9	2243.1	2148.8
35°	1596.4	1609.1	1647.0	1707.7	1791.2	1886.7	2003.7	2094.8	2156.8	2152.4	2094.8
37.5°	1287.5	1301.8	1340.1	1390.4	1471.4	1589.7	1702.9	1828.4	1943.0	2007.4	1988.1
40°	1119.5	1120.1	1157.5	1209.3	1285.2	1388.3	1511.6	1650.7	1778.5	1882.9	1903.1
42.5°	986.9	987.1	1011.7	1067.6	1122.3	1219.3	1337.0	1475.2	1624.8	1745.3	1798.9
45°	815.9	821.6	841.9	875.4	918.4	1000.6	1094.8	1223.2	1390.8	1533.7	1622.9
47.5°	690.9	699.3	712.2	739.5	773.8	828.5	906.5	1021.8	1158.2	1315.4	1442.3
50°	626.1	627.4	643.9	659.0	688.8	732.5	800.7	896.8	1022.1	1173.2	1314.3
52.5°	570.5	570.2	580.1	599.4	623.5	657.5	712.6	800.2	911.2	1046.8	1192.4
55°	487.0	490.2	497.7	512.9	531.3	555.3	599.0	664.7	752.0	867.8	1000.0
57.5°	423.5	425.2	431.1	437.5	454.4	471.8	504.6	550.2	623.9	718.7	841.9
60°	382.0	382.6	384.5	394.0	407.3	423.7	445.9	484.5	546.4	633.1	730.6
62.5°	341.5	342.7	345.6	352.5	362.8	374.1	397.4	428.3	479.7	553.7	641.4
65°	284.6	285.3	289.7	292.2	300.4	310.5	327.6	348.5	383.9	445.9	512.3
67.5°	237.8	237.8	238.1	241.5	247.2	253.9	264.1	280.8	307.5	345.6	404.2
70°	207.5	207.5	208.7	210.6	213.8	219.4	225.1	237.8	257.5	288.4	333.4
72.5°	179.1	179.6	180.9	181.3	182.9	187.6	191.8	199.9	214.4	237.8	274.1
75°	131.6	133.5	136.7	139.2	142.3	141.6	146.1	151.1	155.6	169.5	190.4
77.5°	97.9	96.9	97.3	99.4	99.8	100.4	103.6	107.5	110.8	117.4	124.8
80°	74.6	74.6	76.5	77.2	76.5	77.2	80.3	82.2	83.5	86.0	93.0
82.5°	56.4	57.4	56.8	57.4	57.8	58.5	61.1	61.5	62.7	63.8	66.7
85°	31.6	32.2	32.9	31.6	31.6	31.6	32.9	33.5	34.8	34.1	35.4
87.5°	17.3	16.7	17.1	17.0	17.4	16.7	17.0	17.7	16.4	16.6	16.3
90°	30.8	30.3	29.9	29.5	29.0	28.0	26.7	25.3	24.0	22.6	20.8
92.5°	45.6	45.3	45.1	44.8	44.5	44.0	43.2	42.3	41.5	40.7	39.4
95°	81.2	81.2	81.2	81.2	81.2	80.8	80.2	79.5	78.7	78.1	76.4
97.5°	127.2	127.2	127.2	127.2	127.2	126.7	126.0	125.2	124.3	123.5	121.6
100°	159.2	159.2	159.2	159.2	159.2	159.0	158.6	158.1	157.6	157.2	155.1
102.5°	195.4	195.2	195.0	194.9	194.6	194.2	193.6	193.0	192.3	191.7	189.8
105°	250.6	250.0	249.3	248.6	248.0	247.2	246.6	245.9	245.2	244.5	243.6
107.5°	304.5	304.6	304.6	304.7	304.7	304.4	303.7	303.1	302.5	301.8	301.7
110°	343.2	342.5	341.7	341.1	340.4	340.3	340.7	341.2	341.7	342.1	342.4



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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1617.4	1610.3	1606.8	1598.7	1589.0	1584.0	1579.5	1572.9	1564.2	1555.1	1548.6
5°	1699.5	1684.3	1665.3	1642.6	1622.3	1602.7	1585.6	1568.6	1549.0	1528.8	1508.5
7.5°	1783.8	1753.9	1721.6	1684.3	1648.0	1615.0	1584.6	1555.5	1522.7	1493.2	1466.3
10°	1842.5	1802.0	1757.1	1709.6	1662.2	1621.0	1580.6	1543.9	1503.4	1467.4	1437.0
12.5°	1890.0	1842.5	1788.4	1729.3	1672.3	1622.5	1576.0	1528.2	1482.2	1443.1	1402.6
15°	1968.9	1903.8	1831.1	1760.2	1686.2	1618.5	1555.9	1500.2	1447.8	1392.7	1354.2
17.5°	2023.2	1945.9	1857.5	1772.3	1685.0	1605.1	1532.9	1466.6	1406.0	1349.9	1303.9
20°	2055.6	1970.2	1872.2	1775.4	1677.4	1592.0	1514.2	1440.8	1378.2	1317.5	1270.0
22.5°	2073.8	1979.3	1872.2	1770.8	1669.3	1576.8	1491.4	1415.0	1346.8	1286.1	1233.6
25°	2079.6	1978.4	1869.0	1752.6	1641.3	1543.3	1454.7	1371.8	1295.9	1235.2	1179.6
27.5°	2071.6	1952.3	1840.3	1720.9	1606.0	1502.7	1409.7	1322.6	1246.7	1181.5	1124.4
30°	2059.4	1931.6	1811.4	1687.5	1571.1	1471.8	1373.7	1290.3	1211.2	1143.5	1086.0
32.5°	2033.1	1906.3	1777.0	1650.0	1532.2	1429.8	1336.8	1252.8	1175.3	1106.1	1045.0
35°	1980.9	1852.5	1712.1	1581.8	1466.1	1359.9	1272.6	1191.6	1117.6	1043.6	979.1
37.5°	1912.2	1781.1	1641.4	1498.7	1382.8	1282.5	1202.5	1126.5	1054.2	986.7	915.2
40°	1847.5	1728.0	1583.7	1442.1	1323.2	1226.4	1152.4	1083.5	1010.7	943.6	872.2
42.5°	1769.1	1667.2	1521.5	1379.3	1261.9	1168.7	1099.8	1032.4	966.2	901.2	826.6
45°	1638.2	1561.0	1424.3	1287.8	1169.5	1077.1	1013.9	954.4	896.2	834.2	764.1
47.5°	1488.1	1435.8	1318.0	1178.1	1068.7	985.6	924.5	875.8	826.6	764.7	703.1
50°	1383.9	1350.4	1236.5	1108.7	1004.4	927.9	865.2	819.7	778.6	719.1	664.1
52.5°	1272.6	1254.7	1158.6	1036.4	935.6	860.5	807.1	766.0	724.5	675.1	623.6
55°	1103.0	1112.5	1030.9	925.3	830.4	767.2	718.5	684.4	649.0	607.2	567.4
57.5°	929.8	964.4	909.7	816.9	728.0	669.6	632.9	604.1	574.4	539.8	505.7
60°	826.0	855.1	824.1	742.5	664.7	610.4	576.2	554.1	524.3	492.7	466.8
62.5°	724.8	756.0	737.6	671.7	599.4	552.7	522.5	501.9	479.8	452.3	425.3
65°	597.7	617.9	609.1	563.6	512.3	472.5	444.7	429.4	409.2	389.0	365.0
67.5°	457.8	496.9	491.7	467.5	423.3	392.1	373.9	360.5	342.1	327.0	310.7
70°	376.4	412.4	411.8	392.1	368.1	339.0	326.4	315.0	298.5	284.0	270.7
72.5°	308.0	341.0	345.9	330.9	314.5	292.5	280.4	272.5	256.5	246.5	235.8
75°	215.7	239.7	246.1	246.1	238.4	227.0	216.3	211.3	199.9	191.0	184.7
77.5°	141.4	156.6	166.4	168.7	169.9	166.1	157.2	153.7	145.0	141.8	135.7
80°	99.9	110.0	121.4	125.2	128.4	127.1	123.3	120.8	112.6	109.4	106.9
82.5°	69.1	74.6	84.0	92.4	91.4	94.7	91.4	89.4	83.3	82.1	79.5
85°	36.0	36.7	37.9	43.6	46.8	48.1	48.7	47.5	45.6	45.6	41.1
87.5°	15.9	15.1	15.7	15.3	15.3	16.8	17.8	17.8	16.8	15.8	14.7
90°	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1	5.6	8.1	10.6
92.5°	38.1	36.8	35.6	33.5	30.6	27.7	24.9	22.0	24.9	27.7	30.6
95°	74.9	73.3	71.7	69.9	67.8	65.8	63.7	61.6	63.7	65.8	67.8
97.5°	119.8	117.9	116.0	114.2	112.6	111.0	109.3	107.7	109.3	111.0	112.6
100°	153.0	151.0	148.9	147.5	146.6	145.7	144.7	143.9	144.7	145.7	146.6
102.5°	188.0	186.1	184.2	183.1	182.8	182.4	182.0	181.6	182.0	182.4	182.8
105°	242.7	241.8	240.8	240.3	240.0	239.9	239.6	239.4	239.6	239.9	240.0
107.5°	301.6	301.4	301.3	301.1	300.8	300.6	300.2	300.0	300.2	300.6	300.8
110°	342.5	342.8	343.0	342.9	342.5	342.0	341.5	341.1	341.5	342.0	342.5





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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1541.5	1536.4	1529.9	1522.3	1513.1	1505.1	1501.5	1504.6	1506.1	1502.1	1501.5
5°	1494.5	1478.8	1466.1	1447.2	1431.9	1419.3	1410.5	1406.7	1407.9	1397.8	1395.3
7.5°	1441.9	1423.1	1402.3	1379.8	1358.8	1340.2	1330.5	1325.2	1314.5	1309.9	1302.2
10°	1407.9	1382.6	1362.4	1335.8	1311.8	1289.7	1278.9	1270.0	1259.3	1254.2	1243.5
12.5°	1373.0	1343.6	1321.4	1293.8	1269.2	1242.6	1232.3	1215.9	1199.0	1188.4	1174.6
15°	1323.8	1288.4	1261.2	1228.3	1199.2	1168.9	1141.6	1111.3	1099.9	1075.9	1061.9
17.5°	1266.2	1230.3	1196.7	1152.5	1107.6	1069.9	1040.9	1011.9	994.4	979.1	972.0
20°	1228.3	1195.4	1148.6	1097.3	1047.4	1005.7	982.2	963.3	944.3	933.6	926.0
22.5°	1192.4	1150.3	1096.0	1040.7	990.7	958.1	938.3	918.8	903.3	893.1	883.0
25°	1132.2	1077.1	1019.5	956.3	922.2	893.7	872.2	856.3	846.9	833.6	828.5
27.5°	1070.3	1003.6	940.2	897.6	862.1	836.0	817.3	805.4	793.4	784.9	778.3
30°	1022.7	955.1	898.1	857.6	821.6	800.1	784.9	771.0	761.5	754.6	749.5
32.5°	975.7	908.0	860.2	816.7	788.2	767.2	751.0	740.6	733.2	724.2	721.1
35°	907.6	847.6	805.8	766.6	737.4	718.5	705.8	695.1	688.8	686.3	684.4
37.5°	842.2	793.0	748.1	716.0	690.1	675.1	660.2	654.9	650.5	646.0	648.1
40°	800.7	754.6	714.7	680.6	659.7	643.3	634.4	628.0	624.2	624.2	624.2
42.5°	764.8	719.6	680.8	650.2	629.3	615.4	605.5	600.2	599.0	598.5	601.5
45°	709.0	667.3	628.0	602.8	585.0	571.2	565.5	561.0	561.0	563.6	564.2
47.5°	653.7	614.7	583.1	554.8	538.6	529.9	525.0	522.7	522.9	525.5	528.4
50°	619.8	581.2	550.2	525.0	509.8	501.5	497.1	495.9	497.1	497.1	501.5
52.5°	582.9	548.3	517.8	496.6	479.4	471.7	469.3	467.5	468.3	470.3	472.2
55°	528.8	497.7	468.7	448.5	435.8	430.7	425.0	425.6	424.4	425.6	425.6
57.5°	474.5	446.6	419.6	403.5	392.4	385.1	378.8	380.6	378.7	378.5	377.5
60°	439.6	409.2	387.7	373.2	360.5	354.2	348.5	349.7	347.8	346.6	344.0
62.5°	401.6	376.4	355.8	341.8	331.7	324.3	318.6	317.3	313.0	308.6	303.1
65°	346.6	325.7	307.4	294.1	284.6	278.9	274.5	270.7	261.2	251.1	246.1
67.5°	293.1	278.1	260.9	249.7	242.0	234.6	226.1	219.6	210.7	205.2	202.0
70°	258.6	244.2	229.6	218.8	210.6	203.7	194.2	189.7	183.4	180.9	177.8
72.5°	225.8	212.2	198.8	189.0	180.2	174.8	167.4	163.0	160.2	159.1	156.0
75°	175.9	165.1	155.0	146.1	139.2	135.4	132.2	129.0	127.8	122.1	118.9
77.5°	128.3	121.2	114.9	108.5	103.6	101.1	95.0	91.3	89.2	86.5	85.9
80°	99.9	94.9	88.6	84.8	77.8	75.3	72.7	72.1	71.5	70.8	70.2
82.5°	75.2	70.1	63.8	61.5	59.6	58.1	56.6	55.9	55.3	55.7	55.5
85°	37.9	35.4	35.4	34.8	34.1	33.5	32.9	32.9	32.2	32.9	32.2
87.5°	15.3	15.2	15.6	14.9	15.8	16.2	15.9	16.2	17.0	16.2	16.4
90°	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3	26.7	28.0	29.0
92.5°	33.5	35.6	36.8	38.1	39.4	40.7	41.5	42.3	43.2	44.0	44.5
95°	69.9	71.7	73.3	74.9	76.4	78.1	78.7	79.5	80.2	80.8	81.2
97.5°	114.2	116.0	117.9	119.8	121.6	123.5	124.3	125.2	126.0	126.7	127.2
100°	147.5	148.9	151.0	153.0	155.1	157.2	157.6	158.1	158.6	159.0	159.2
102.5°	183.1	184.2	186.1	188.0	189.8	191.7	192.3	193.0	193.6	194.2	194.6
105°	240.3	240.8	241.8	242.7	243.6	244.5	245.2	245.9	246.6	247.2	248.0
107.5°	301.1	301.3	301.4	301.6	301.7	301.8	302.5	303.1	303.7	304.4	304.7
110°	342.9	343.0	342.8	342.5	342.4	342.1	341.7	341.2	340.7	340.3	340.4



TEST NUMBER: P333108-927

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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1498.5	1499.5	1496.0	1494.9	1496.0	1499.5	1498.5	1501.5	1502.1	1506.1	1504.6
5°	1390.2	1388.9	1385.8	1386.4	1385.8	1388.9	1390.2	1395.3	1397.8	1407.9	1406.7
7.5°	1297.6	1292.7	1294.0	1289.0	1294.0	1292.7	1297.6	1302.2	1309.9	1314.5	1325.2
10°	1241.0	1234.0	1228.3	1223.2	1228.3	1234.0	1241.0	1243.5	1254.2	1259.3	1270.0
12.5°	1163.6	1157.5	1149.9	1151.4	1149.9	1157.5	1163.6	1174.6	1188.4	1199.0	1215.9
15°	1053.7	1044.3	1029.0	1030.9	1029.0	1044.3	1053.7	1061.9	1075.9	1099.9	1111.3
17.5°	960.8	960.8	953.9	955.5	953.9	960.8	960.8	972.0	979.1	994.4	1011.9
20°	912.7	908.2	908.9	907.0	908.9	908.2	912.7	926.0	933.6	944.3	963.3
22.5°	879.2	873.9	869.4	865.5	869.4	873.9	879.2	883.0	893.1	903.3	918.8
25°	822.8	819.0	813.4	812.1	813.4	819.0	822.8	828.5	833.6	846.9	856.3
27.5°	773.2	772.5	770.2	767.3	770.2	772.5	773.2	778.3	784.9	793.4	805.4
30°	744.4	743.1	741.9	740.0	741.9	743.1	744.4	749.5	754.6	761.5	771.0
32.5°	718.7	717.9	716.6	716.8	716.6	717.9	718.7	721.1	724.2	733.2	740.6
35°	681.8	681.2	679.9	679.3	679.9	681.2	681.8	684.4	686.3	688.8	695.1
37.5°	647.5	649.0	648.3	648.2	648.3	649.0	647.5	648.1	646.0	650.5	654.9
40°	623.6	624.2	625.5	624.9	625.5	624.2	623.6	624.2	624.2	624.2	628.0
42.5°	603.9	604.0	605.8	603.6	605.8	604.0	603.9	601.5	598.5	599.0	600.2
45°	568.6	572.4	571.8	571.8	571.8	572.4	568.6	564.2	563.6	561.0	561.0
47.5°	530.0	533.3	534.2	534.1	534.2	533.3	530.0	528.4	525.5	522.9	522.7
50°	504.7	503.4	505.3	504.7	505.3	503.4	504.7	501.5	497.1	497.1	495.9
52.5°	473.9	474.1	474.0	473.3	474.0	474.1	473.9	472.2	470.3	468.3	467.5
55°	426.3	426.9	425.6	426.3	425.6	426.9	426.3	425.6	425.6	424.4	425.6
57.5°	374.7	371.6	372.9	371.4	372.9	371.6	374.7	377.5	378.5	378.7	380.6
60°	337.8	332.7	331.4	328.9	331.4	332.7	337.8	344.0	346.6	347.8	349.7
62.5°	296.3	292.7	288.4	290.4	288.4	292.7	296.3	303.1	308.6	313.0	317.3
65°	241.0	238.4	236.5	239.1	236.5	238.4	241.0	246.1	251.1	261.2	270.7
67.5°	199.5	198.1	198.1	196.9	198.1	198.1	199.5	202.0	205.2	210.7	219.6
70°	177.8	175.9	175.9	174.6	175.9	175.9	177.8	177.8	180.9	183.4	189.7
72.5°	155.4	153.6	154.1	153.3	154.1	153.6	155.4	156.0	159.1	160.2	163.0
75°	115.1	111.9	111.9	112.6	111.9	111.9	115.1	118.9	122.1	127.8	129.0
77.5°	85.9	85.2	86.1	85.0	86.1	85.2	85.9	85.9	86.5	89.2	91.3
80°	70.2	69.6	68.9	70.8	68.9	69.6	70.2	70.2	70.8	71.5	72.1
82.5°	54.5	54.4	54.3	56.6	54.3	54.4	54.5	55.5	55.7	55.3	55.9
85°	32.9	31.6	32.9	31.6	32.9	31.6	32.9	32.2	32.9	32.2	32.9
87.5°	17.5	17.1	16.7	17.3	16.7	17.1	17.5	16.4	16.2	17.0	16.2
90°	29.5	29.9	30.3	30.8	30.3	29.9	29.5	29.0	28.0	26.7	25.3
92.5°	44.8	45.1	45.3	45.6	45.3	45.1	44.8	44.5	44.0	43.2	42.3
95°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	80.8	80.2	79.5
97.5°	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	126.7	126.0	125.2
100°	159.2	159.2	159.2	159.2	159.2	159.2	159.2	159.2	159.0	158.6	158.1
102.5°	194.9	195.0	195.2	195.4	195.2	195.0	194.9	194.6	194.2	193.6	193.0
105°	248.6	249.3	250.0	250.6	250.0	249.3	248.6	248.0	247.2	246.6	245.9
107.5°	304.7	304.6	304.6	304.5	304.6	304.6	304.7	304.7	304.4	303.7	303.1
110°	341.1	341.7	342.5	343.2	342.5	341.7	341.1	340.4	340.3	340.7	341.2



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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1501.5	1505.1	1513.1	1522.3	1529.9	1536.4	1541.5	1548.6	1555.1	1564.2	1572.9
5°	1410.5	1419.3	1431.9	1447.2	1466.1	1478.8	1494.5	1508.5	1528.8	1549.0	1568.6
7.5°	1330.5	1340.2	1358.8	1379.8	1402.3	1423.1	1441.9	1466.3	1493.2	1522.7	1555.5
10°	1278.9	1289.7	1311.8	1335.8	1362.4	1382.6	1407.9	1437.0	1467.4	1503.4	1543.9
12.5°	1232.3	1242.6	1269.2	1293.8	1321.4	1343.6	1373.0	1402.6	1443.1	1482.2	1528.2
15°	1141.6	1168.9	1199.2	1228.3	1261.2	1288.4	1323.8	1354.2	1392.7	1447.8	1500.2
17.5°	1040.9	1069.9	1107.6	1152.5	1196.7	1230.3	1266.2	1303.9	1349.9	1406.0	1466.6
20°	982.2	1005.7	1047.4	1097.3	1148.6	1195.4	1228.3	1270.0	1317.5	1378.2	1440.8
22.5°	938.3	958.1	990.7	1040.7	1096.0	1150.3	1192.4	1233.6	1286.1	1346.8	1415.0
25°	872.2	893.7	922.2	956.3	1019.5	1077.1	1132.2	1179.6	1235.2	1295.9	1371.8
27.5°	817.3	836.0	862.1	897.6	940.2	1003.6	1070.3	1124.4	1181.5	1246.7	1322.6
30°	784.9	800.1	821.6	857.6	898.1	955.1	1022.7	1086.0	1143.5	1211.2	1290.3
32.5°	751.0	767.2	788.2	816.7	860.2	908.0	975.7	1045.0	1106.1	1175.3	1252.8
35°	705.8	718.5	737.4	766.6	805.8	847.6	907.6	979.1	1043.6	1117.6	1191.6
37.5°	660.2	675.1	690.1	716.0	748.1	793.0	842.2	915.2	986.7	1054.2	1126.5
40°	634.4	643.3	659.7	680.6	714.7	754.6	800.7	872.2	943.6	1010.7	1083.5
42.5°	605.5	615.4	629.3	650.2	680.8	719.6	764.8	826.6	901.2	966.2	1032.4
45°	565.5	571.2	585.0	602.8	628.0	667.3	709.0	764.1	834.2	896.2	954.4
47.5°	525.0	529.9	538.6	554.8	583.1	614.7	653.7	703.1	764.7	826.6	875.8
50°	497.1	501.5	509.8	525.0	550.2	581.2	619.8	664.1	719.1	778.6	819.7
52.5°	469.3	471.7	479.4	496.6	517.8	548.3	582.9	623.6	675.1	724.5	766.0
55°	425.0	430.7	435.8	448.5	468.7	497.7	528.8	567.4	607.2	649.0	684.4
57.5°	378.8	385.1	392.4	403.5	419.6	446.6	474.5	505.7	539.8	574.4	604.1
60°	348.5	354.2	360.5	373.2	387.7	409.2	439.6	466.8	492.7	524.3	554.1
62.5°	318.6	324.3	331.7	341.8	355.8	376.4	401.6	425.3	452.3	479.8	501.9
65°	274.5	278.9	284.6	294.1	307.4	325.7	346.6	365.0	389.0	409.2	429.4
67.5°	226.1	234.6	242.0	249.7	260.9	278.1	293.1	310.7	327.0	342.1	360.5
70°	194.2	203.7	210.6	218.8	229.6	244.2	258.6	270.7	284.0	298.5	315.0
72.5°	167.4	174.8	180.2	189.0	198.8	212.2	225.8	235.8	246.5	256.5	272.5
75°	132.2	135.4	139.2	146.1	155.0	165.1	175.9	184.7	191.0	199.9	211.3
77.5°	95.0	101.1	103.6	108.5	114.9	121.2	128.3	135.7	141.8	145.0	153.7
80°	72.7	75.3	77.8	84.8	88.6	94.9	99.9	106.9	109.4	112.6	120.8
82.5°	56.6	58.1	59.6	61.5	63.8	70.1	75.2	79.5	82.1	83.3	89.4
85°	32.9	33.5	34.1	34.8	35.4	35.4	37.9	41.1	45.6	45.6	47.5
87.5°	15.9	16.2	15.8	14.9	15.6	15.2	15.3	14.7	15.8	16.8	17.8
90°	24.0	22.6	20.8	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1
92.5°	41.5	40.7	39.4	38.1	36.8	35.6	33.5	30.6	27.7	24.9	22.0
95°	78.7	78.1	76.4	74.9	73.3	71.7	69.9	67.8	65.8	63.7	61.6
97.5°	124.3	123.5	121.6	119.8	117.9	116.0	114.2	112.6	111.0	109.3	107.7
100°	157.6	157.2	155.1	153.0	151.0	148.9	147.5	146.6	145.7	144.7	143.9
102.5°	192.3	191.7	189.8	188.0	186.1	184.2	183.1	182.8	182.4	182.0	181.6
105°	245.2	244.5	243.6	242.7	241.8	240.8	240.3	240.0	239.9	239.6	239.4
107.5°	302.5	301.8	301.7	301.6	301.4	301.3	301.1	300.8	300.6	300.2	300.0
110°	341.7	342.1	342.4	342.5	342.8	343.0	342.9	342.5	342.0	341.5	341.1



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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1579.5	1584.0	1589.0	1598.7	1606.8	1610.3	1617.4	1622.5	1621.0	1628.0	1640.1
5°	1585.6	1602.7	1622.3	1642.6	1665.3	1684.3	1699.5	1714.7	1726.7	1741.2	1762.8
7.5°	1584.6	1615.0	1648.0	1684.3	1721.6	1753.9	1783.8	1814.1	1841.0	1870.5	1909.1
10°	1580.6	1621.0	1662.2	1709.6	1757.1	1802.0	1842.5	1880.4	1916.4	1955.0	2003.7
12.5°	1576.0	1622.5	1672.3	1729.3	1788.4	1842.5	1890.0	1944.6	1989.8	2039.6	2095.8
15°	1555.9	1618.5	1686.2	1760.2	1831.1	1903.8	1968.9	2036.0	2098.6	2158.1	2228.9
17.5°	1532.9	1605.1	1685.0	1772.3	1857.5	1945.9	2023.2	2107.7	2171.7	2251.5	2317.3
20°	1514.2	1592.0	1677.4	1775.4	1872.2	1970.2	2055.6	2141.6	2213.7	2294.0	2377.5
22.5°	1491.4	1576.8	1669.3	1770.8	1872.2	1979.3	2073.8	2159.3	2248.6	2339.1	2425.1
25°	1454.7	1543.3	1641.3	1752.6	1869.0	1978.4	2079.6	2185.9	2282.0	2380.0	2457.2
27.5°	1409.7	1502.7	1606.0	1720.9	1840.3	1952.3	2071.6	2184.8	2281.5	2375.8	2443.2
30°	1373.7	1471.8	1571.1	1687.5	1811.4	1931.6	2059.4	2172.6	2274.4	2359.2	2397.1
32.5°	1336.8	1429.8	1532.2	1650.0	1777.0	1906.3	2033.1	2148.8	2243.1	2293.9	2294.9
35°	1272.6	1359.9	1466.1	1581.8	1712.1	1852.5	1980.9	2094.8	2152.4	2156.8	2094.8
37.5°	1202.5	1282.5	1382.8	1498.7	1641.4	1781.1	1912.2	1988.1	2007.4	1943.0	1828.4
40°	1152.4	1226.4	1323.2	1442.1	1583.7	1728.0	1847.5	1903.1	1882.9	1778.5	1650.7
42.5°	1099.8	1168.7	1261.9	1379.3	1521.5	1667.2	1769.1	1798.9	1745.3	1624.8	1475.2
45°	1013.9	1077.1	1169.5	1287.8	1424.3	1561.0	1638.2	1622.9	1533.7	1390.8	1223.2
47.5°	924.5	985.6	1068.7	1178.1	1318.0	1435.8	1488.1	1442.3	1315.4	1158.2	1021.8
50°	865.2	927.9	1004.4	1108.7	1236.5	1350.4	1383.9	1314.3	1173.2	1022.1	896.8
52.5°	807.1	860.5	935.6	1036.4	1158.6	1254.7	1272.6	1192.4	1046.8	911.2	800.2
55°	718.5	767.2	830.4	925.3	1030.9	1112.5	1103.0	1000.0	867.8	752.0	664.7
57.5°	632.9	669.6	728.0	816.9	909.7	964.4	929.8	841.9	718.7	623.9	550.2
60°	576.2	610.4	664.7	742.5	824.1	855.1	826.0	730.6	633.1	546.4	484.5
62.5°	522.5	552.7	599.4	671.7	737.6	756.0	724.8	641.4	553.7	479.7	428.3
65°	444.7	472.5	512.3	563.6	609.1	617.9	597.7	512.3	445.9	383.9	348.5
67.5°	373.9	392.1	423.3	467.5	491.7	496.9	457.8	404.2	345.6	307.5	280.8
70°	326.4	339.0	368.1	392.1	411.8	412.4	376.4	333.4	288.4	257.5	237.8
72.5°	280.4	292.5	314.5	330.9	345.9	341.0	308.0	274.1	237.8	214.4	199.9
75°	216.3	227.0	238.4	246.1	246.1	239.7	215.7	190.4	169.5	155.6	151.1
77.5°	157.2	166.1	169.9	168.7	166.4	156.6	141.4	124.8	117.4	110.8	107.5
80°	123.3	127.1	128.4	125.2	121.4	110.0	99.9	93.0	86.0	83.5	82.2
82.5°	91.4	94.7	91.4	92.4	84.0	74.6	69.1	66.7	63.8	62.7	61.5
85°	48.7	48.1	46.8	43.6	37.9	36.7	36.0	35.4	34.1	34.8	33.5
87.5°	17.8	16.8	15.3	15.3	15.7	15.1	15.9	16.3	16.6	16.4	17.7
90°	5.6	8.1	10.6	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3
92.5°	24.9	27.7	30.6	33.5	35.6	36.8	38.1	39.4	40.7	41.5	42.3
95°	63.7	65.8	67.8	69.9	71.7	73.3	74.9	76.4	78.1	78.7	79.5
97.5°	109.3	111.0	112.6	114.2	116.0	117.9	119.8	121.6	123.5	124.3	125.2
100°	144.7	145.7	146.6	147.5	148.9	151.0	153.0	155.1	157.2	157.6	158.1
102.5°	182.0	182.4	182.8	183.1	184.2	186.1	188.0	189.8	191.7	192.3	193.0
105°	239.6	239.9	240.0	240.3	240.8	241.8	242.7	243.6	244.5	245.2	245.9
107.5°	300.2	300.6	300.8	301.1	301.3	301.4	301.6	301.7	301.8	302.5	303.1
110°	341.5	342.0	342.5	342.9	343.0	342.8	342.5	342.4	342.1	341.7	341.2





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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1646.7	1648.8	1650.3	1655.3	1655.8	1660.4	1655.8
5°	1783.0	1791.8	1805.8	1819.6	1820.9	1829.8	1813.9
7.5°	1935.8	1956.3	1969.0	1991.5	2000.4	2006.0	1996.9
10°	2041.1	2060.0	2093.5	2110.0	2126.5	2128.9	2121.4
12.5°	2142.8	2172.9	2199.3	2230.4	2229.7	2251.9	2243.8
15°	2278.2	2309.2	2345.9	2380.7	2393.3	2393.3	2403.5
17.5°	2374.9	2431.7	2469.6	2497.0	2526.7	2532.0	2528.4
20°	2440.2	2501.5	2542.0	2577.4	2597.6	2603.3	2603.3
22.5°	2488.7	2540.9	2580.5	2612.3	2629.0	2635.7	2633.7
25°	2522.4	2567.2	2591.3	2600.8	2605.2	2604.0	2591.9
27.5°	2476.3	2474.3	2459.1	2430.0	2408.2	2394.8	2379.6
30°	2388.3	2355.4	2317.5	2275.7	2221.9	2180.8	2168.1
32.5°	2257.2	2183.3	2119.1	2049.5	1991.7	1950.6	1933.4
35°	2003.7	1886.7	1791.2	1707.7	1647.0	1609.1	1596.4
37.5°	1702.9	1589.7	1471.4	1390.4	1340.1	1301.8	1287.5
40°	1511.6	1388.3	1285.2	1209.3	1157.5	1120.1	1119.5
42.5°	1337.0	1219.3	1122.3	1067.6	1011.7	987.1	986.9
45°	1094.8	1000.6	918.4	875.4	841.9	821.6	815.9
47.5°	906.5	828.5	773.8	739.5	712.2	699.3	690.9
50°	800.7	732.5	688.8	659.0	643.9	627.4	626.1
52.5°	712.6	657.5	623.5	599.4	580.1	570.2	570.5
55°	599.0	555.3	531.3	512.9	497.7	490.2	487.0
57.5°	504.6	471.8	454.4	437.5	431.1	425.2	423.5
60°	445.9	423.7	407.3	394.0	384.5	382.6	382.0
62.5°	397.4	374.1	362.8	352.5	345.6	342.7	341.5
65°	327.6	310.5	300.4	292.2	289.7	285.3	284.6
67.5°	264.1	253.9	247.2	241.5	238.1	237.8	237.8
70°	225.1	219.4	213.8	210.6	208.7	207.5	207.5
72.5°	191.8	187.6	182.9	181.3	180.9	179.6	179.1
75°	146.1	141.6	142.3	139.2	136.7	133.5	131.6
77.5°	103.6	100.4	99.8	99.4	97.3	96.9	97.9
80°	80.3	77.2	76.5	77.2	76.5	74.6	74.6
82.5°	61.1	58.5	57.8	57.4	56.8	57.4	56.4
85°	32.9	31.6	31.6	31.6	32.9	32.2	31.6
87.5°	17.0	16.7	17.4	17.0	17.1	16.7	17.3
90°	26.7	28.0	29.0	29.5	29.9	30.3	30.8
92.5°	43.2	44.0	44.5	44.8	45.1	45.3	45.6
95°	80.2	80.8	81.2	81.2	81.2	81.2	81.2
97.5°	126.0	126.7	127.2	127.2	127.2	127.2	127.2
100°	158.6	159.0	159.2	159.2	159.2	159.2	159.2
102.5°	193.6	194.2	194.6	194.9	195.0	195.2	195.4
105°	246.6	247.2	248.0	248.6	249.3	250.0	250.6
107.5°	303.7	304.4	304.7	304.7	304.6	304.6	304.5
110°	340.7	340.3	340.4	341.1	341.7	342.5	343.2



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)