

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: P333697-840

Luminaire Tested: **S125RDIW-S850D1560U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333697-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S850D1560U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 850 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8774.9 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Indirect

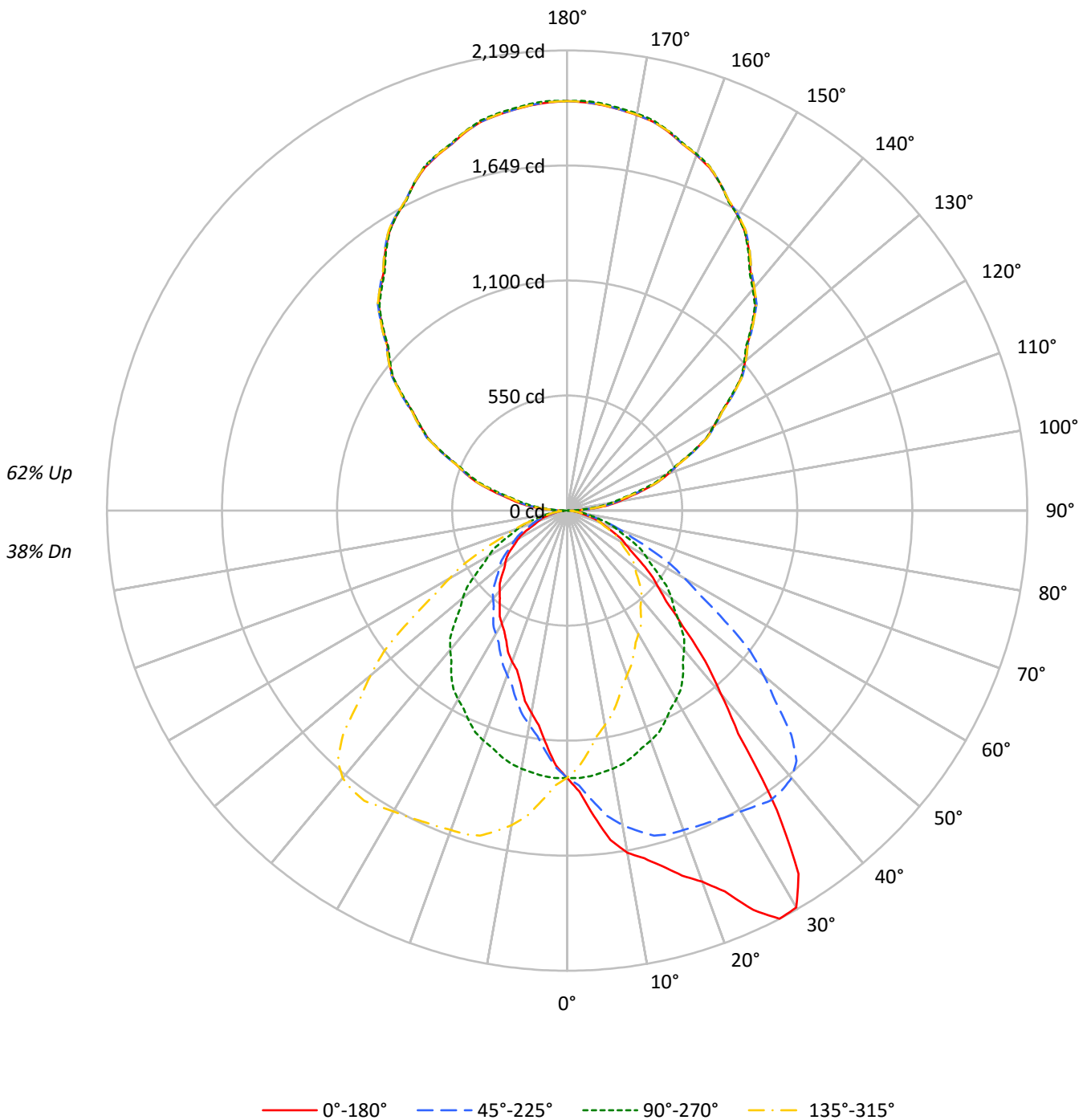
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	88	84	86	83	80	77	67	65	63	53	52	51	40	39	39	32
2	87	80	74	69	79	73	68	64	59	56	53	47	45	43	36	34	33	28
3	80	71	64	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	51	45	47	42	38	37	34	31	29	26	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	23	21	18
6	62	50	42	36	56	46	39	34	38	33	29	30	27	24	23	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	21	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8250	8250	8250	8250
5°	9491	8261	7295	8261
10°	10887	8218	6437	8218
15°	11760	8134	5722	8134
20°	12967	8036	5283	8036
25°	15007	7906	4903	7906
30°	16330	7770	4653	7770
35°	13775	7611	4424	7611
40°	9620	7325	4226	7325
45°	7136	6940	4032	6940
50°	5690	6539	3867	6539
55°	4829	6040	3719	6040
60°	4173	5594	3481	5594
65°	3718	5113	2997	5113
70°	3269	4683	2732	4683
75°	2827	4057	2565	4057
80°	2146	3414	2146	3414
85°	1786	2682	2023	2682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.4
10°-20°	359.0	4.1
20°-30°	569.2	6.5
30°-40°	686.4	7.8
40°-50°	613.0	7.0
50°-60°	470.0	5.4
60°-70°	305.5	3.5
70°-80°	148.5	1.7
80°-90°	39.7	0.5
90°-100°	131.1	1.5
100°-110°	387.1	4.4
110°-120°	655.6	7.5
120°-130°	862.9	9.8
130°-140°	966.8	11.0
140°-150°	947.6	10.8
150°-160°	795.9	9.1
160°-170°	529.1	6.0
170°-180°	185.2	2.1
0°-30°	1050.6	12.0
0°-40°	1737.0	19.8
0°-60°	2820.0	32.1
0°-90°	3313.7	37.8
90°-120°	1173.8	13.4
90°-150°	3951.1	45.0
90°-180°	5461.0	62.2
0°-180°	8774.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1277	1277	1277	1277	1277	
5°	1464	1274	1125	1274	1464	146
15°	1759	1217	856	1217	1759	504
25°	2106	1110	688	1110	2106	967
35°	1747	965	561	965	1747	1055
45°	781	760	442	760	781	623
55°	429	536	330	536	429	389
65°	243	335	196	335	243	242
75°	113	163	103	163	113	121
85°	24	36	27	36	24	29
90°	37	2	37	2	37	22
95°	131	99	131	99	131	133
105°	378	347	378	347	378	400
115°	663	656	663	656	663	655
125°	964	958	964	958	964	861
135°	1250	1246	1250	1246	1250	965
145°	1515	1509	1515	1509	1515	946
155°	1727	1727	1727	1727	1727	795
165°	1873	1878	1873	1878	1873	528
175°	1945	1953	1945	1953	1945	185
180°	1957	1957	1957	1957	1957	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1343.6	1342.8	1344.5	1339.9	1340.3	1333.1	1333.1	1327.7	1320.6	1315.1	1312.6
5°	1464.0	1465.1	1463.0	1455.1	1449.9	1442.0	1433.1	1417.3	1404.2	1391.7	1381.7
7.5°	1588.0	1588.7	1581.9	1579.4	1566.2	1556.5	1536.7	1515.3	1496.3	1472.2	1453.8
10°	1660.1	1659.6	1652.3	1646.5	1635.0	1620.3	1600.9	1575.7	1552.2	1525.9	1500.8
12.5°	1702.1	1700.7	1698.4	1691.4	1680.7	1667.7	1651.2	1626.5	1597.4	1568.7	1539.3
15°	1758.8	1755.0	1748.3	1739.3	1724.1	1708.9	1690.6	1668.6	1640.7	1608.2	1580.9
17.5°	1828.8	1828.9	1818.5	1806.0	1785.3	1758.6	1730.2	1694.7	1656.9	1621.1	1592.1
20°	1886.7	1885.1	1874.6	1850.5	1826.9	1793.3	1760.8	1717.3	1671.1	1624.5	1588.3
22.5°	1969.7	1965.7	1954.8	1923.1	1886.5	1843.3	1793.5	1740.4	1684.6	1631.6	1584.2
25°	2105.9	2102.7	2081.2	2044.6	1993.2	1926.5	1861.5	1788.7	1708.4	1638.7	1580.9
27.5°	2199.0	2195.5	2179.6	2149.1	2101.7	2031.6	1943.6	1846.2	1746.1	1650.1	1566.9
30°	2189.8	2197.7	2195.5	2181.4	2145.8	2082.8	2001.6	1892.0	1772.9	1660.1	1561.0
32.5°	2058.0	2065.1	2083.6	2111.3	2113.4	2088.3	2027.5	1926.3	1803.1	1674.9	1556.4
35°	1747.2	1756.7	1792.3	1848.5	1921.8	1983.2	1995.8	1941.3	1830.6	1692.6	1549.5
37.5°	1343.2	1394.8	1424.8	1483.9	1594.8	1707.7	1816.2	1856.1	1809.1	1685.4	1538.3
40°	1141.0	1153.6	1207.1	1273.7	1367.1	1484.5	1639.2	1750.9	1754.5	1668.6	1520.7
42.5°	976.5	992.5	1029.3	1082.4	1162.4	1279.8	1439.5	1586.9	1655.2	1622.4	1497.6
45°	781.3	793.3	820.1	861.0	922.4	1019.4	1156.8	1327.2	1462.5	1515.4	1435.7
47.5°	641.9	648.3	671.7	702.8	748.2	818.9	925.2	1073.2	1235.5	1349.2	1338.0
50°	566.3	573.7	591.5	615.1	653.4	713.2	798.1	921.3	1088.6	1227.6	1255.4
52.5°	507.6	513.7	524.8	547.1	578.7	624.6	693.2	804.7	955.2	1103.0	1167.2
55°	428.9	433.1	442.0	454.6	479.8	512.8	572.1	649.1	770.8	919.8	1014.1
57.5°	364.2	366.2	371.9	383.5	400.9	425.1	467.9	533.2	620.5	754.6	858.7
60°	323.1	325.1	332.4	340.3	354.0	376.0	409.5	455.1	539.1	649.6	755.1
62.5°	290.3	291.5	294.7	302.6	314.5	331.5	357.9	395.2	461.9	559.1	658.6
65°	243.3	243.9	244.9	251.2	258.5	271.1	288.4	314.6	365.0	438.4	526.4
67.5°	198.2	198.9	202.6	204.8	212.5	219.0	229.2	249.3	284.8	334.3	402.7
70°	173.1	172.5	176.2	178.8	181.5	189.2	196.1	212.4	234.4	272.2	329.3
72.5°	149.6	148.1	149.8	150.7	154.2	159.6	166.3	176.3	193.3	219.2	263.1
75°	113.3	113.8	113.8	114.8	117.4	119.6	121.7	126.9	136.3	153.6	177.2
77.5°	79.5	78.7	80.9	81.2	82.7	85.0	86.8	89.0	92.8	100.0	112.1
80°	57.7	57.7	58.2	59.8	59.3	60.3	62.9	65.0	69.8	73.9	78.2
82.5°	44.2	43.8	44.3	44.6	44.5	45.6	46.6	47.0	48.8	50.9	53.8
85°	24.1	24.1	24.6	24.6	25.1	25.1	25.7	25.7	25.7	26.3	26.8
87.5°	16.6	16.0	15.2	15.0	15.3	15.9	15.1	14.3	14.0	13.6	13.6
90°	36.6	35.5	34.5	33.5	32.5	31.1	29.5	27.8	26.1	24.3	22.0
92.5°	71.9	71.1	70.4	69.7	68.9	67.5	65.1	62.9	60.7	58.5	55.5
95°	131.0	130.3	129.7	129.0	128.3	126.7	124.4	122.0	119.7	117.2	113.9
97.5°	198.6	198.2	197.8	197.4	197.0	195.6	193.4	191.2	188.9	186.7	182.1
100°	249.7	249.1	248.4	247.7	247.1	245.2	242.2	239.1	236.1	233.0	228.6
102.5°	300.9	300.0	299.0	298.1	297.2	295.0	291.8	288.4	285.1	281.8	279.5
105°	377.7	376.7	375.7	374.7	373.7	372.1	370.1	368.1	366.1	364.1	361.9
107.5°	456.3	456.4	456.5	456.5	456.6	456.1	455.0	454.0	453.0	452.0	450.5
110°	514.8	515.1	515.4	515.8	516.1	515.8	514.8	513.8	512.7	511.7	510.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	572.1	572.7	573.3	573.9	574.5	574.5	574.1	573.6	573.1	572.7	571.4
115°	662.6	662.9	663.2	663.6	663.9	664.2	664.6	664.9	665.2	665.6	664.9
117.5°	750.8	752.2	753.6	754.9	756.3	756.8	756.6	756.3	756.0	755.8	755.1
120°	811.8	813.1	814.5	815.9	817.2	817.9	817.9	817.9	817.9	817.9	817.5
122.5°	872.7	873.7	874.8	876.0	877.1	877.7	878.0	878.3	878.5	878.8	877.9
125°	964.1	964.4	964.7	965.1	965.4	965.9	966.6	967.3	968.0	968.7	968.4
127.5°	1051.8	1052.5	1053.2	1053.8	1054.5	1055.0	1055.4	1055.7	1056.0	1056.4	1056.0
130°	1110.3	1111.0	1111.7	1112.4	1113.0	1113.5	1113.9	1114.2	1114.5	1114.9	1114.2
132.5°	1165.1	1166.1	1167.0	1168.0	1168.9	1169.5	1169.9	1170.2	1170.5	1170.9	1171.0
135°	1250.4	1251.7	1253.1	1254.5	1255.9	1256.5	1256.5	1256.5	1256.5	1256.5	1256.2
137.5°	1333.8	1335.5	1337.3	1339.0	1340.7	1341.3	1340.9	1340.5	1340.1	1339.7	1338.9
140°	1387.5	1389.2	1390.9	1392.6	1394.2	1394.7	1394.1	1393.4	1392.7	1392.1	1391.1
142.5°	1438.7	1440.4	1442.1	1443.7	1445.4	1446.1	1445.6	1445.2	1444.8	1444.4	1443.2
145°	1515.4	1516.4	1517.4	1518.4	1519.4	1519.9	1519.9	1519.9	1519.9	1519.9	1518.9
147.5°	1580.9	1583.3	1585.5	1587.8	1590.1	1590.8	1590.0	1589.2	1588.4	1587.6	1586.8
150°	1629.6	1630.3	1631.0	1631.6	1632.3	1632.7	1632.7	1632.7	1632.7	1632.7	1631.3
152.5°	1669.9	1671.1	1672.3	1673.5	1674.8	1675.0	1674.2	1673.3	1672.5	1671.7	1671.1
155°	1727.2	1728.8	1730.5	1732.2	1733.9	1734.0	1732.7	1731.3	1730.0	1728.7	1728.3
157.5°	1774.9	1777.2	1779.4	1781.6	1783.9	1784.3	1783.0	1781.6	1780.3	1778.9	1778.6
160°	1807.9	1809.6	1811.2	1812.9	1814.6	1814.8	1813.4	1812.1	1810.7	1809.4	1809.1
162.5°	1835.8	1837.9	1839.8	1841.8	1843.7	1843.9	1842.3	1840.7	1839.1	1837.3	1837.3
165°	1873.3	1875.4	1877.4	1879.5	1881.5	1881.8	1880.5	1879.1	1877.7	1876.4	1876.0
167.5°	1903.2	1905.3	1907.4	1909.5	1911.6	1911.6	1909.6	1907.5	1905.5	1903.5	1903.5
170°	1919.0	1921.4	1923.8	1926.1	1928.5	1928.6	1926.6	1924.6	1922.6	1920.6	1920.6
172.5°	1932.5	1934.5	1936.6	1938.7	1940.9	1940.9	1938.8	1936.8	1934.8	1932.8	1932.8
175°	1944.9	1947.3	1949.6	1952.1	1954.4	1954.6	1952.6	1950.6	1948.4	1946.4	1946.4
177.5°	1952.3	1954.1	1956.0	1957.9	1959.8	1959.9	1958.3	1956.7	1955.1	1953.5	1953.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1312.6	1309.7	1304.2	1299.2	1292.9	1287.5	1283.6	1279.1	1273.1	1266.1	1260.2
5°	1370.7	1359.2	1343.9	1330.9	1314.0	1301.0	1287.4	1274.2	1261.1	1244.4	1229.6
7.5°	1435.1	1411.3	1388.2	1359.0	1332.5	1308.9	1286.3	1263.3	1240.9	1217.1	1194.1
10°	1474.5	1445.7	1413.7	1377.0	1343.4	1311.4	1282.1	1253.2	1222.8	1196.1	1167.2
12.5°	1511.5	1474.2	1437.6	1391.3	1351.0	1311.9	1274.6	1238.6	1206.1	1171.3	1140.4
15°	1544.8	1508.1	1467.2	1410.6	1354.4	1307.3	1263.2	1216.6	1176.2	1137.4	1102.8
17.5°	1557.7	1519.2	1471.7	1417.2	1355.9	1296.6	1239.8	1188.6	1141.1	1095.9	1057.0
20°	1552.7	1515.4	1466.6	1414.7	1349.2	1287.4	1226.0	1169.3	1116.4	1068.6	1027.2
22.5°	1540.4	1502.0	1454.9	1400.1	1337.9	1272.2	1206.7	1146.3	1090.8	1041.4	996.2
25°	1522.3	1469.9	1421.6	1368.1	1308.8	1243.9	1176.2	1109.5	1050.4	1000.0	950.7
27.5°	1503.3	1437.8	1376.4	1323.3	1260.7	1202.6	1137.5	1069.1	1006.9	955.6	905.0
30°	1486.1	1412.7	1345.0	1284.8	1225.5	1170.4	1108.5	1041.9	978.0	925.0	873.6
32.5°	1464.7	1386.6	1312.3	1242.7	1185.6	1130.9	1075.0	1011.3	949.0	894.3	842.1
35°	1437.8	1338.2	1257.5	1183.5	1120.0	1067.1	1016.7	965.3	902.9	846.4	795.5
37.5°	1402.6	1289.5	1196.1	1115.6	1048.6	995.4	955.7	908.8	851.8	797.6	750.3
40°	1381.2	1254.3	1152.1	1072.4	1002.1	945.9	908.8	868.9	817.0	766.1	718.9
42.5°	1352.7	1222.0	1107.6	1024.5	953.8	899.8	862.1	827.4	783.9	735.9	685.4
45°	1296.8	1159.4	1039.4	950.2	878.9	825.9	790.7	759.8	726.8	682.8	638.6
47.5°	1224.0	1094.1	968.4	871.1	801.2	752.0	718.0	693.6	669.9	632.5	589.7
50°	1165.7	1040.4	917.7	823.2	748.8	702.2	670.1	650.8	629.2	595.1	559.5
52.5°	1096.9	985.0	864.7	768.3	698.0	654.3	623.6	604.2	586.4	558.7	524.7
55°	988.5	890.4	780.2	692.7	628.2	584.1	554.8	536.4	525.9	502.3	475.6
57.5°	863.3	793.0	695.9	611.5	554.5	511.0	489.5	473.8	462.0	445.2	426.5
60°	776.1	726.8	639.7	559.5	507.1	465.6	446.3	433.1	422.1	408.0	393.2
62.5°	687.5	651.7	575.9	507.1	458.8	424.1	406.0	394.2	381.4	371.9	357.6
65°	569.0	536.9	484.5	430.5	386.0	358.1	345.1	334.6	326.7	316.2	306.2
67.5°	442.5	429.6	393.3	356.2	324.2	299.4	288.1	280.7	271.4	265.0	258.2
70°	365.0	358.7	333.0	308.3	278.4	261.7	251.2	248.0	236.5	230.2	225.5
72.5°	296.2	293.3	278.4	261.4	240.2	225.6	215.9	212.4	205.0	200.0	196.9
75°	202.9	204.0	201.4	190.4	182.5	173.1	164.6	162.6	157.3	153.1	150.5
77.5°	128.4	133.7	133.9	133.4	130.3	124.5	121.0	119.5	114.3	112.7	112.1
80°	88.1	93.8	99.1	98.6	97.6	95.9	93.3	91.8	89.2	87.6	86.5
82.5°	58.8	64.1	68.5	71.3	71.1	69.6	67.8	67.1	66.4	65.3	65.1
85°	27.8	28.9	30.4	34.1	36.7	37.3	36.7	36.2	34.6	35.1	35.6
87.5°	13.5	13.1	13.0	12.5	11.6	13.1	13.8	13.7	13.4	13.1	12.8
90°	19.6	17.3	14.8	12.3	9.7	7.0	4.2	1.5	4.2	7.0	9.7
92.5°	52.6	49.8	46.9	44.4	42.5	40.7	38.8	36.9	38.8	40.7	42.5
95°	110.5	107.1	103.7	101.7	101.0	100.4	99.7	99.0	99.7	100.4	101.0
97.5°	177.4	172.7	168.0	165.6	165.3	165.0	164.7	164.5	164.7	165.0	165.3
100°	224.2	219.8	215.4	213.2	213.2	213.2	213.2	213.2	213.2	213.2	213.2
102.5°	277.3	275.1	272.9	271.0	269.6	268.3	267.0	265.6	267.0	268.3	269.6
105°	359.9	357.9	355.9	354.1	352.3	350.6	348.9	347.3	348.9	350.6	352.3
107.5°	448.9	447.4	445.9	444.1	442.5	440.8	439.1	437.4	439.1	440.8	442.5
110°	509.7	508.7	507.7	506.3	504.6	502.9	501.3	499.6	501.3	502.9	504.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	570.1	568.8	567.5	566.4	565.5	564.7	563.8	562.9	563.8	564.7	565.5
115°	664.2	663.6	662.9	661.9	660.5	659.1	657.8	656.4	657.8	659.1	660.5
117.5°	754.5	753.9	753.3	752.7	752.0	751.4	750.8	750.2	750.8	751.4	752.0
120°	817.2	816.9	816.5	815.5	813.9	812.1	810.4	808.7	810.4	812.1	813.9
122.5°	877.1	876.2	875.3	874.5	873.9	873.3	872.7	872.1	872.7	873.3	873.9
125°	968.0	967.7	967.3	966.1	964.1	962.1	960.0	958.0	960.0	962.1	964.1
127.5°	1055.6	1055.2	1054.8	1054.0	1052.8	1051.7	1050.6	1049.4	1050.6	1051.7	1052.8
130°	1113.5	1112.9	1112.2	1111.0	1109.2	1107.6	1105.9	1104.2	1105.9	1107.6	1109.2
132.5°	1171.1	1171.3	1171.4	1170.1	1167.4	1164.6	1161.8	1159.0	1161.8	1164.6	1167.4
135°	1255.9	1255.5	1255.2	1253.9	1251.9	1249.9	1247.9	1245.9	1247.9	1249.9	1251.9
137.5°	1338.2	1337.5	1336.7	1335.3	1333.3	1331.4	1329.5	1327.5	1329.5	1331.4	1333.3
140°	1390.1	1389.0	1388.0	1386.6	1384.9	1383.2	1381.6	1379.9	1381.6	1383.2	1384.9
142.5°	1441.9	1440.6	1439.3	1437.9	1436.5	1435.1	1433.7	1432.3	1433.7	1435.1	1436.5
145°	1517.9	1516.9	1515.9	1514.8	1513.4	1512.1	1510.7	1509.3	1510.7	1512.1	1513.4
147.5°	1586.0	1585.2	1584.4	1583.6	1582.9	1582.1	1581.3	1580.6	1581.3	1582.1	1582.9
150°	1630.0	1628.6	1627.3	1626.8	1627.1	1627.5	1627.8	1628.1	1627.8	1627.5	1627.1
152.5°	1670.6	1670.1	1669.5	1669.0	1668.5	1668.1	1667.6	1667.1	1667.6	1668.1	1668.5
155°	1728.0	1727.7	1727.3	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2
157.5°	1778.3	1777.9	1777.6	1777.8	1778.5	1779.3	1780.0	1780.7	1780.0	1779.3	1778.5
160°	1808.7	1808.4	1808.1	1808.4	1809.4	1810.4	1811.4	1812.4	1811.4	1810.4	1809.4
162.5°	1837.2	1837.1	1837.1	1837.4	1838.3	1839.0	1839.7	1840.5	1839.7	1839.0	1838.3
165°	1875.7	1875.4	1875.0	1875.2	1875.9	1876.5	1877.2	1877.9	1877.2	1876.5	1875.9
167.5°	1903.5	1903.5	1903.5	1904.2	1905.5	1906.9	1908.2	1909.6	1908.2	1906.9	1905.5
170°	1920.6	1920.6	1920.6	1921.3	1922.6	1923.9	1925.3	1926.6	1925.3	1923.9	1922.6
172.5°	1932.8	1932.8	1932.8	1933.4	1934.8	1936.1	1937.5	1938.8	1937.5	1936.1	1934.8
175°	1946.4	1946.4	1946.4	1947.1	1948.4	1949.8	1951.2	1952.6	1951.2	1949.8	1948.4
177.5°	1954.0	1954.3	1954.5	1955.2	1956.3	1957.4	1958.4	1959.5	1958.4	1957.4	1956.3
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



TEST NUMBER: P333697-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1256.0	1250.1	1245.9	1237.5	1231.6	1229.1	1224.6	1223.2	1227.9	1224.6	1224.1
5°	1218.6	1203.5	1191.3	1179.3	1166.2	1157.8	1145.2	1143.2	1139.9	1135.3	1134.2
7.5°	1173.9	1154.1	1138.5	1118.6	1101.3	1087.3	1071.6	1064.2	1060.1	1054.0	1045.8
10°	1143.7	1120.0	1099.0	1079.1	1057.6	1040.4	1024.6	1012.6	1004.7	997.3	994.2
12.5°	1113.9	1089.8	1063.0	1038.8	1014.9	995.4	978.1	970.2	961.5	952.9	945.5
15°	1067.6	1035.6	1006.2	978.5	958.1	937.1	920.3	908.8	895.6	891.9	877.8
17.5°	1018.5	987.1	952.8	923.5	899.8	876.8	858.3	845.2	835.4	821.8	815.3
20°	988.0	950.7	917.2	890.4	864.1	836.9	818.0	807.0	797.6	786.6	781.3
22.5°	955.2	918.8	884.4	853.0	826.4	799.6	786.2	774.7	764.0	753.9	746.9
25°	907.2	870.5	834.2	801.7	774.0	754.6	738.8	725.7	719.9	710.0	702.7
27.5°	859.7	820.6	783.0	750.7	728.9	709.7	696.8	686.4	676.0	667.3	661.0
30°	829.0	789.2	748.3	722.6	699.5	681.2	667.0	657.0	649.1	641.3	636.6
32.5°	798.4	757.3	721.0	693.2	671.4	655.6	641.0	631.5	623.2	614.5	608.9
35°	749.3	707.4	678.0	650.8	629.2	614.6	604.6	591.0	584.1	577.8	572.1
37.5°	703.7	664.7	632.9	609.0	590.4	575.7	562.9	555.5	547.1	541.5	536.6
40°	670.1	634.5	605.6	580.5	566.8	550.6	538.6	529.1	522.8	515.4	510.2
42.5°	640.0	606.8	578.8	556.1	539.2	525.4	513.8	504.3	496.3	491.1	486.8
45°	597.2	564.2	536.9	515.9	500.3	487.2	475.0	470.4	459.9	453.6	451.5
47.5°	553.1	523.5	497.3	477.9	461.8	449.4	438.1	428.4	422.6	416.5	413.1
50°	523.3	495.0	470.4	451.5	435.8	422.1	411.6	405.4	397.5	391.7	387.5
52.5°	493.5	467.4	442.7	424.6	411.0	397.4	385.7	379.3	371.9	368.2	365.3
55°	451.0	423.1	402.2	384.4	370.2	357.6	346.6	340.3	335.6	331.9	330.8
57.5°	402.7	380.7	361.2	345.2	330.4	318.6	308.9	303.0	298.8	298.2	295.1
60°	371.2	351.3	333.5	316.2	303.6	292.6	284.2	277.4	273.2	272.7	271.7
62.5°	339.8	320.7	304.2	288.9	277.6	267.0	259.0	251.4	248.8	246.2	244.0
65°	293.2	275.8	262.2	250.1	238.0	229.1	221.3	216.5	210.8	207.6	201.9
67.5°	247.3	233.9	220.8	210.6	201.2	192.7	186.1	179.2	175.2	172.7	168.5
70°	217.1	206.6	193.5	182.5	175.1	168.3	163.1	155.2	152.6	150.5	148.3
72.5°	188.5	179.4	168.3	159.5	152.1	145.6	139.6	135.9	133.3	131.2	130.0
75°	148.3	139.5	130.1	123.7	118.6	113.3	110.1	107.4	106.4	105.9	103.8
77.5°	109.0	104.2	96.6	91.7	88.2	86.1	83.3	81.9	81.8	79.5	78.8
80°	83.4	80.8	74.4	72.4	69.8	67.7	66.0	63.4	60.8	59.8	58.2
82.5°	62.0	59.4	56.9	53.5	51.3	50.0	48.5	47.5	47.9	46.4	45.6
85°	33.0	30.4	29.4	28.9	27.8	28.9	28.3	27.8	27.3	26.8	27.3
87.5°	12.9	13.4	13.5	14.8	14.0	14.9	15.2	15.2	15.6	15.9	15.8
90°	12.3	14.8	17.3	19.6	22.0	24.3	26.1	27.8	29.5	31.1	32.5
92.5°	44.4	46.9	49.8	52.6	55.5	58.5	60.7	62.9	65.1	67.5	68.9
95°	101.7	103.7	107.1	110.5	113.9	117.2	119.7	122.0	124.4	126.7	128.3
97.5°	165.6	168.0	172.7	177.4	182.1	186.7	188.9	191.2	193.4	195.6	197.0
100°	213.2	215.4	219.8	224.2	228.6	233.0	236.1	239.1	242.2	245.2	247.1
102.5°	271.0	272.9	275.1	277.3	279.5	281.8	285.1	288.4	291.8	295.0	297.2
105°	354.1	355.9	357.9	359.9	361.9	364.1	366.1	368.1	370.1	372.1	373.7
107.5°	444.1	445.9	447.4	448.9	450.5	452.0	453.0	454.0	455.0	456.1	456.6
110°	506.3	507.7	508.7	509.7	510.7	511.7	512.7	513.8	514.8	515.8	516.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	566.4	567.5	568.8	570.1	571.4	572.7	573.1	573.6	574.1	574.5	574.5
115°	661.9	662.9	663.6	664.2	664.9	665.6	665.2	664.9	664.6	664.2	663.9
117.5°	752.7	753.3	753.9	754.5	755.1	755.8	756.0	756.3	756.6	756.8	756.3
120°	815.5	816.5	816.9	817.2	817.5	817.9	817.9	817.9	817.9	817.9	817.2
122.5°	874.5	875.3	876.2	877.1	877.9	878.8	878.5	878.3	878.0	877.7	877.1
125°	966.1	967.3	967.7	968.0	968.4	968.7	968.0	967.3	966.6	965.9	965.4
127.5°	1054.0	1054.8	1055.2	1055.6	1056.0	1056.4	1056.0	1055.7	1055.4	1055.0	1054.5
130°	1111.0	1112.2	1112.9	1113.5	1114.2	1114.9	1114.5	1114.2	1113.9	1113.5	1113.0
132.5°	1170.1	1171.4	1171.3	1171.1	1171.0	1170.9	1170.5	1170.2	1169.9	1169.5	1168.9
135°	1253.9	1255.2	1255.5	1255.9	1256.2	1256.5	1256.5	1256.5	1256.5	1256.5	1255.9
137.5°	1335.3	1336.7	1337.5	1338.2	1338.9	1339.7	1340.1	1340.5	1340.9	1341.3	1340.7
140°	1386.6	1388.0	1389.0	1390.1	1391.1	1392.1	1392.7	1393.4	1394.1	1394.7	1394.2
142.5°	1437.9	1439.3	1440.6	1441.9	1443.2	1444.4	1444.8	1445.2	1445.6	1446.1	1445.4
145°	1514.8	1515.9	1516.9	1517.9	1518.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.4
147.5°	1583.6	1584.4	1585.2	1586.0	1586.8	1587.6	1588.4	1589.2	1590.0	1590.8	1590.1
150°	1626.8	1627.3	1628.6	1630.0	1631.3	1632.7	1632.7	1632.7	1632.7	1632.7	1632.3
152.5°	1669.0	1669.5	1670.1	1670.6	1671.1	1671.7	1672.5	1673.3	1674.2	1675.0	1674.8
155°	1727.2	1727.3	1727.7	1728.0	1728.3	1728.7	1730.0	1731.3	1732.7	1734.0	1733.9
157.5°	1777.8	1777.6	1777.9	1778.3	1778.6	1778.9	1780.3	1781.6	1783.0	1784.3	1783.9
160°	1808.4	1808.1	1808.4	1808.7	1809.1	1809.4	1810.7	1812.1	1813.4	1814.8	1814.6
162.5°	1837.4	1837.1	1837.1	1837.2	1837.3	1837.3	1839.1	1840.7	1842.3	1843.9	1843.7
165°	1875.2	1875.0	1875.4	1875.7	1876.0	1876.4	1877.7	1879.1	1880.5	1881.8	1881.5
167.5°	1904.2	1903.5	1903.5	1903.5	1903.5	1903.5	1905.5	1907.5	1909.6	1911.6	1911.6
170°	1921.3	1920.6	1920.6	1920.6	1920.6	1920.6	1922.6	1924.6	1926.6	1928.6	1928.5
172.5°	1933.4	1932.8	1932.8	1932.8	1932.8	1932.8	1934.8	1936.8	1938.8	1940.9	1940.9
175°	1947.1	1946.4	1946.4	1946.4	1946.4	1946.4	1948.4	1950.6	1952.6	1954.6	1954.4
177.5°	1955.2	1954.5	1954.3	1954.0	1953.7	1953.5	1955.1	1956.7	1958.3	1959.9	1959.8
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1223.7	1219.1	1217.8	1219.5	1217.8	1219.1	1223.7	1224.1	1224.6	1227.9	1223.2
5°	1128.9	1123.8	1126.3	1125.3	1126.3	1123.8	1128.9	1134.2	1135.3	1139.9	1143.2
7.5°	1045.7	1039.2	1032.3	1034.5	1032.3	1039.2	1045.7	1045.8	1054.0	1060.1	1064.2
10°	987.3	982.2	979.0	981.6	979.0	982.2	987.3	994.2	997.3	1004.7	1012.6
12.5°	938.3	935.1	932.4	931.3	932.4	935.1	938.3	945.5	952.9	961.5	970.2
15°	871.5	865.3	862.6	855.8	862.6	865.3	871.5	877.8	891.9	895.6	908.8
17.5°	809.9	807.9	801.0	798.1	801.0	807.9	809.9	815.3	821.8	835.4	845.2
20°	773.5	771.3	764.6	768.7	764.6	771.3	773.5	781.3	786.6	797.6	807.0
22.5°	743.3	738.6	736.4	735.2	736.4	738.6	743.3	746.9	753.9	764.0	774.7
25°	700.5	693.8	691.2	688.0	691.2	693.8	700.5	702.7	710.0	719.9	725.7
27.5°	658.0	654.3	650.9	650.1	650.9	654.3	658.0	661.0	667.3	676.0	686.4
30°	630.3	626.6	624.0	624.0	624.0	626.6	630.3	636.6	641.3	649.1	657.0
32.5°	605.5	602.7	600.1	599.7	600.1	602.7	605.5	608.9	614.5	623.2	631.5
35°	569.5	565.3	564.2	561.1	564.2	565.3	569.5	572.1	577.8	584.1	591.0
37.5°	532.0	528.6	528.5	528.2	528.5	528.6	532.0	536.6	541.5	547.1	555.5
40°	508.2	505.5	504.9	501.3	504.9	505.5	508.2	510.2	515.4	522.8	529.1
42.5°	482.5	481.2	479.4	477.8	479.4	481.2	482.5	486.8	491.1	496.3	504.3
45°	447.8	444.1	444.1	441.5	444.1	444.1	447.8	451.5	453.6	459.9	470.4
47.5°	411.9	409.1	409.4	406.7	409.4	409.1	411.9	413.1	416.5	422.6	428.4
50°	388.0	386.5	386.0	384.9	386.0	386.5	388.0	387.5	391.7	397.5	405.4
52.5°	364.2	363.3	365.4	363.0	365.4	363.3	364.2	365.3	368.2	371.9	379.3
55°	331.9	330.3	333.5	330.3	333.5	330.3	331.9	330.8	331.9	335.6	340.3
57.5°	294.9	293.5	296.3	294.7	296.3	293.5	294.9	295.1	298.2	298.8	303.0
60°	270.5	267.4	269.0	269.5	269.0	267.4	270.5	271.7	272.7	273.2	277.4
62.5°	241.7	239.7	240.9	238.5	240.9	239.7	241.7	244.0	246.2	248.8	251.4
65°	200.9	199.2	197.1	196.1	197.1	199.2	200.9	201.9	207.6	210.8	216.5
67.5°	168.7	165.0	164.9	165.7	164.9	165.0	168.7	168.5	172.7	175.2	179.2
70°	145.2	145.2	144.7	144.7	144.7	145.2	145.2	148.3	150.5	152.6	155.2
72.5°	128.9	128.5	127.5	127.1	127.5	128.5	128.9	130.0	131.2	133.3	135.9
75°	103.8	104.3	103.3	102.8	103.3	104.3	103.8	103.8	105.9	106.4	107.4
77.5°	76.6	74.4	75.6	74.4	75.6	74.4	76.6	78.8	79.5	81.8	81.9
80°	58.2	57.7	59.3	57.7	59.3	57.7	58.2	58.2	59.8	60.8	63.4
82.5°	46.0	45.5	46.3	45.1	46.3	45.5	46.0	45.6	46.4	47.9	47.5
85°	27.8	27.3	26.8	27.3	26.8	27.3	27.8	27.3	26.8	27.3	27.8
87.5°	16.4	16.2	16.4	16.6	16.4	16.2	16.4	15.8	15.9	15.6	15.2
90°	33.5	34.5	35.5	36.6	35.5	34.5	33.5	32.5	31.1	29.5	27.8
92.5°	69.7	70.4	71.1	71.9	71.1	70.4	69.7	68.9	67.5	65.1	62.9
95°	129.0	129.7	130.3	131.0	130.3	129.7	129.0	128.3	126.7	124.4	122.0
97.5°	197.4	197.8	198.2	198.6	198.2	197.8	197.4	197.0	195.6	193.4	191.2
100°	247.7	248.4	249.1	249.7	249.1	248.4	247.7	247.1	245.2	242.2	239.1
102.5°	298.1	299.0	300.0	300.9	300.0	299.0	298.1	297.2	295.0	291.8	288.4
105°	374.7	375.7	376.7	377.7	376.7	375.7	374.7	373.7	372.1	370.1	368.1
107.5°	456.5	456.5	456.4	456.3	456.4	456.5	456.5	456.6	456.1	455.0	454.0
110°	515.8	515.4	515.1	514.8	515.1	515.4	515.8	516.1	515.8	514.8	513.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	573.9	573.3	572.7	572.1	572.7	573.3	573.9	574.5	574.5	574.1	573.6
115°	663.6	663.2	662.9	662.6	662.9	663.2	663.6	663.9	664.2	664.6	664.9
117.5°	754.9	753.6	752.2	750.8	752.2	753.6	754.9	756.3	756.8	756.6	756.3
120°	815.9	814.5	813.1	811.8	813.1	814.5	815.9	817.2	817.9	817.9	817.9
122.5°	876.0	874.8	873.7	872.7	873.7	874.8	876.0	877.1	877.7	878.0	878.3
125°	965.1	964.7	964.4	964.1	964.4	964.7	965.1	965.4	965.9	966.6	967.3
127.5°	1053.8	1053.2	1052.5	1051.8	1052.5	1053.2	1053.8	1054.5	1055.0	1055.4	1055.7
130°	1112.4	1111.7	1111.0	1110.3	1111.0	1111.7	1112.4	1113.0	1113.5	1113.9	1114.2
132.5°	1168.0	1167.0	1166.1	1165.1	1166.1	1167.0	1168.0	1168.9	1169.5	1169.9	1170.2
135°	1254.5	1253.1	1251.7	1250.4	1251.7	1253.1	1254.5	1255.9	1256.5	1256.5	1256.5
137.5°	1339.0	1337.3	1335.5	1333.8	1335.5	1337.3	1339.0	1340.7	1341.3	1340.9	1340.5
140°	1392.6	1390.9	1389.2	1387.5	1389.2	1390.9	1392.6	1394.2	1394.7	1394.1	1393.4
142.5°	1443.7	1442.1	1440.4	1438.7	1440.4	1442.1	1443.7	1445.4	1446.1	1445.6	1445.2
145°	1518.4	1517.4	1516.4	1515.4	1516.4	1517.4	1518.4	1519.4	1519.9	1519.9	1519.9
147.5°	1587.8	1585.5	1583.3	1580.9	1583.3	1585.5	1587.8	1590.1	1590.8	1590.0	1589.2
150°	1631.6	1631.0	1630.3	1629.6	1630.3	1631.0	1631.6	1632.3	1632.7	1632.7	1632.7
152.5°	1673.5	1672.3	1671.1	1669.9	1671.1	1672.3	1673.5	1674.8	1675.0	1674.2	1673.3
155°	1732.2	1730.5	1728.8	1727.2	1728.8	1730.5	1732.2	1733.9	1734.0	1732.7	1731.3
157.5°	1781.6	1779.4	1777.2	1774.9	1777.2	1779.4	1781.6	1783.9	1784.3	1783.0	1781.6
160°	1812.9	1811.2	1809.6	1807.9	1809.6	1811.2	1812.9	1814.6	1814.8	1813.4	1812.1
162.5°	1841.8	1839.8	1837.9	1835.8	1837.9	1839.8	1841.8	1843.7	1843.9	1842.3	1840.7
165°	1879.5	1877.4	1875.4	1873.3	1875.4	1877.4	1879.5	1881.5	1881.8	1880.5	1879.1
167.5°	1909.5	1907.4	1905.3	1903.2	1905.3	1907.4	1909.5	1911.6	1911.6	1909.6	1907.5
170°	1926.1	1923.8	1921.4	1919.0	1921.4	1923.8	1926.1	1928.5	1928.6	1926.6	1924.6
172.5°	1938.7	1936.6	1934.5	1932.5	1934.5	1936.6	1938.7	1940.9	1940.9	1938.8	1936.8
175°	1952.1	1949.6	1947.3	1944.9	1947.3	1949.6	1952.1	1954.4	1954.6	1952.6	1950.6
177.5°	1957.9	1956.0	1954.1	1952.3	1954.1	1956.0	1957.9	1959.8	1959.9	1958.3	1956.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1224.6	1229.1	1231.6	1237.5	1245.9	1250.1	1256.0	1260.2	1266.1	1273.1	1279.1
5°	1145.2	1157.8	1166.2	1179.3	1191.3	1203.5	1218.6	1229.6	1244.4	1261.1	1274.2
7.5°	1071.6	1087.3	1101.3	1118.6	1138.5	1154.1	1173.9	1194.1	1217.1	1240.9	1263.3
10°	1024.6	1040.4	1057.6	1079.1	1099.0	1120.0	1143.7	1167.2	1196.1	1222.8	1253.2
12.5°	978.1	995.4	1014.9	1038.8	1063.0	1089.8	1113.9	1140.4	1171.3	1206.1	1238.6
15°	920.3	937.1	958.1	978.5	1006.2	1035.6	1067.6	1102.8	1137.4	1176.2	1216.6
17.5°	858.3	876.8	899.8	923.5	952.8	987.1	1018.5	1057.0	1095.9	1141.1	1188.6
20°	818.0	836.9	864.1	890.4	917.2	950.7	988.0	1027.2	1068.6	1116.4	1169.3
22.5°	786.2	799.6	826.4	853.0	884.4	918.8	955.2	996.2	1041.4	1090.8	1146.3
25°	738.8	754.6	774.0	801.7	834.2	870.5	907.2	950.7	1000.0	1050.4	1109.5
27.5°	696.8	709.7	728.9	750.7	783.0	820.6	859.7	905.0	955.6	1006.9	1069.1
30°	667.0	681.2	699.5	722.6	748.3	789.2	829.0	873.6	925.0	978.0	1041.9
32.5°	641.0	655.6	671.4	693.2	721.0	757.3	798.4	842.1	894.3	949.0	1011.3
35°	604.6	614.6	629.2	650.8	678.0	707.4	749.3	795.5	846.4	902.9	965.3
37.5°	562.9	575.7	590.4	609.0	632.9	664.7	703.7	750.3	797.6	851.8	908.8
40°	538.6	550.6	566.8	580.5	605.6	634.5	670.1	718.9	766.1	817.0	868.9
42.5°	513.8	525.4	539.2	556.1	578.8	606.8	640.0	685.4	735.9	783.9	827.4
45°	475.0	487.2	500.3	515.9	536.9	564.2	597.2	638.6	682.8	726.8	759.8
47.5°	438.1	449.4	461.8	477.9	497.3	523.5	553.1	589.7	632.5	669.9	693.6
50°	411.6	422.1	435.8	451.5	470.4	495.0	523.3	559.5	595.1	629.2	650.8
52.5°	385.7	397.4	411.0	424.6	442.7	467.4	493.5	524.7	558.7	586.4	604.2
55°	346.6	357.6	370.2	384.4	402.2	423.1	451.0	475.6	502.3	525.9	536.4
57.5°	308.9	318.6	330.4	345.2	361.2	380.7	402.7	426.5	445.2	462.0	473.8
60°	284.2	292.6	303.6	316.2	333.5	351.3	371.2	393.2	408.0	422.1	433.1
62.5°	259.0	267.0	277.6	288.9	304.2	320.7	339.8	357.6	371.9	381.4	394.2
65°	221.3	229.1	238.0	250.1	262.2	275.8	293.2	306.2	316.2	326.7	334.6
67.5°	186.1	192.7	201.2	210.6	220.8	233.9	247.3	258.2	265.0	271.4	280.7
70°	163.1	168.3	175.1	182.5	193.5	206.6	217.1	225.5	230.2	236.5	248.0
72.5°	139.6	145.6	152.1	159.5	168.3	179.4	188.5	196.9	200.0	205.0	212.4
75°	110.1	113.3	118.6	123.7	130.1	139.5	148.3	150.5	153.1	157.3	162.6
77.5°	83.3	86.1	88.2	91.7	96.6	104.2	109.0	112.1	112.7	114.3	119.5
80°	66.0	67.7	69.8	72.4	74.4	80.8	83.4	86.5	87.6	89.2	91.8
82.5°	48.5	50.0	51.3	53.5	56.9	59.4	62.0	65.1	65.3	66.4	67.1
85°	28.3	28.9	27.8	28.9	29.4	30.4	33.0	35.6	35.1	34.6	36.2
87.5°	15.2	14.9	14.0	14.8	13.5	13.4	12.9	12.8	13.1	13.4	13.7
90°	26.1	24.3	22.0	19.6	17.3	14.8	12.3	9.7	7.0	4.2	1.5
92.5°	60.7	58.5	55.5	52.6	49.8	46.9	44.4	42.5	40.7	38.8	36.9
95°	119.7	117.2	113.9	110.5	107.1	103.7	101.7	101.0	100.4	99.7	99.0
97.5°	188.9	186.7	182.1	177.4	172.7	168.0	165.6	165.3	165.0	164.7	164.5
100°	236.1	233.0	228.6	224.2	219.8	215.4	213.2	213.2	213.2	213.2	213.2
102.5°	285.1	281.8	279.5	277.3	275.1	272.9	271.0	269.6	268.3	267.0	265.6
105°	366.1	364.1	361.9	359.9	357.9	355.9	354.1	352.3	350.6	348.9	347.3
107.5°	453.0	452.0	450.5	448.9	447.4	445.9	444.1	442.5	440.8	439.1	437.4
110°	512.7	511.7	510.7	509.7	508.7	507.7	506.3	504.6	502.9	501.3	499.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	573.1	572.7	571.4	570.1	568.8	567.5	566.4	565.5	564.7	563.8	562.9
115°	665.2	665.6	664.9	664.2	663.6	662.9	661.9	660.5	659.1	657.8	656.4
117.5°	756.0	755.8	755.1	754.5	753.9	753.3	752.7	752.0	751.4	750.8	750.2
120°	817.9	817.9	817.5	817.2	816.9	816.5	815.5	813.9	812.1	810.4	808.7
122.5°	878.5	878.8	877.9	877.1	876.2	875.3	874.5	873.9	873.3	872.7	872.1
125°	968.0	968.7	968.4	968.0	967.7	967.3	966.1	964.1	962.1	960.0	958.0
127.5°	1056.0	1056.4	1056.0	1055.6	1055.2	1054.8	1054.0	1052.8	1051.7	1050.6	1049.4
130°	1114.5	1114.9	1114.2	1113.5	1112.9	1112.2	1111.0	1109.2	1107.6	1105.9	1104.2
132.5°	1170.5	1170.9	1171.0	1171.1	1171.3	1171.4	1170.1	1167.4	1164.6	1161.8	1159.0
135°	1256.5	1256.5	1256.2	1255.9	1255.5	1255.2	1253.9	1251.9	1249.9	1247.9	1245.9
137.5°	1340.1	1339.7	1338.9	1338.2	1337.5	1336.7	1335.3	1333.3	1331.4	1329.5	1327.5
140°	1392.7	1392.1	1391.1	1390.1	1389.0	1388.0	1386.6	1384.9	1383.2	1381.6	1379.9
142.5°	1444.8	1444.4	1443.2	1441.9	1440.6	1439.3	1437.9	1436.5	1435.1	1433.7	1432.3
145°	1519.9	1519.9	1518.9	1517.9	1516.9	1515.9	1514.8	1513.4	1512.1	1510.7	1509.3
147.5°	1588.4	1587.6	1586.8	1586.0	1585.2	1584.4	1583.6	1582.9	1582.1	1581.3	1580.6
150°	1632.7	1632.7	1631.3	1630.0	1628.6	1627.3	1626.8	1627.1	1627.5	1627.8	1628.1
152.5°	1672.5	1671.7	1671.1	1670.6	1670.1	1669.5	1669.0	1668.5	1668.1	1667.6	1667.1
155°	1730.0	1728.7	1728.3	1728.0	1727.7	1727.3	1727.2	1727.2	1727.2	1727.2	1727.2
157.5°	1780.3	1778.9	1778.6	1778.3	1777.9	1777.6	1777.8	1778.5	1779.3	1780.0	1780.7
160°	1810.7	1809.4	1809.1	1808.7	1808.4	1808.1	1808.4	1809.4	1810.4	1811.4	1812.4
162.5°	1839.1	1837.3	1837.3	1837.2	1837.1	1837.1	1837.4	1838.3	1839.0	1839.7	1840.5
165°	1877.7	1876.4	1876.0	1875.7	1875.4	1875.0	1875.2	1875.9	1876.5	1877.2	1877.9
167.5°	1905.5	1903.5	1903.5	1903.5	1903.5	1903.5	1904.2	1905.5	1906.9	1908.2	1909.6
170°	1922.6	1920.6	1920.6	1920.6	1920.6	1920.6	1921.3	1922.6	1923.9	1925.3	1926.6
172.5°	1934.8	1932.8	1932.8	1932.8	1932.8	1932.8	1933.4	1934.8	1936.1	1937.5	1938.8
175°	1948.4	1946.4	1946.4	1946.4	1946.4	1946.4	1947.1	1948.4	1949.8	1951.2	1952.6
177.5°	1955.1	1953.5	1953.7	1954.0	1954.3	1954.5	1955.2	1956.3	1957.4	1958.4	1959.5
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1283.6	1287.5	1292.9	1299.2	1304.2	1309.7	1312.6	1312.6	1315.1	1320.6	1327.7
5°	1287.4	1301.0	1314.0	1330.9	1343.9	1359.2	1370.7	1381.7	1391.7	1404.2	1417.3
7.5°	1286.3	1308.9	1332.5	1359.0	1388.2	1411.3	1435.1	1453.8	1472.2	1496.3	1515.3
10°	1282.1	1311.4	1343.4	1377.0	1413.7	1445.7	1474.5	1500.8	1525.9	1552.2	1575.7
12.5°	1274.6	1311.9	1351.0	1391.3	1437.6	1474.2	1511.5	1539.3	1568.7	1597.4	1626.5
15°	1263.2	1307.3	1354.4	1410.6	1467.2	1508.1	1544.8	1580.9	1608.2	1640.7	1668.6
17.5°	1239.8	1296.6	1355.9	1417.2	1471.7	1519.2	1557.7	1592.1	1621.1	1656.9	1694.7
20°	1226.0	1287.4	1349.2	1414.7	1466.6	1515.4	1552.7	1588.3	1624.5	1671.1	1717.3
22.5°	1206.7	1272.2	1337.9	1400.1	1454.9	1502.0	1540.4	1584.2	1631.6	1684.6	1740.4
25°	1176.2	1243.9	1308.8	1368.1	1421.6	1469.9	1522.3	1580.9	1638.7	1708.4	1788.7
27.5°	1137.5	1202.6	1260.7	1323.3	1376.4	1437.8	1503.3	1566.9	1650.1	1746.1	1846.2
30°	1108.5	1170.4	1225.5	1284.8	1345.0	1412.7	1486.1	1561.0	1660.1	1772.9	1892.0
32.5°	1075.0	1130.9	1185.6	1242.7	1312.3	1386.6	1464.7	1556.4	1674.9	1803.1	1926.3
35°	1016.7	1067.1	1120.0	1183.5	1257.5	1338.2	1437.8	1549.5	1692.6	1830.6	1941.3
37.5°	955.7	995.4	1048.6	1115.6	1196.1	1289.5	1402.6	1538.3	1685.4	1809.1	1856.1
40°	908.8	945.9	1002.1	1072.4	1152.1	1254.3	1381.2	1520.7	1668.6	1754.5	1750.9
42.5°	862.1	899.8	953.8	1024.5	1107.6	1222.0	1352.7	1497.6	1622.4	1655.2	1586.9
45°	790.7	825.9	878.9	950.2	1039.4	1159.4	1296.8	1435.7	1515.4	1462.5	1327.2
47.5°	718.0	752.0	801.2	871.1	968.4	1094.1	1224.0	1338.0	1349.2	1235.5	1073.2
50°	670.1	702.2	748.8	823.2	917.7	1040.4	1165.7	1255.4	1227.6	1088.6	921.3
52.5°	623.6	654.3	698.0	768.3	864.7	985.0	1096.9	1167.2	1103.0	955.2	804.7
55°	554.8	584.1	628.2	692.7	780.2	890.4	988.5	1014.1	919.8	770.8	649.1
57.5°	489.5	511.0	554.5	611.5	695.9	793.0	863.3	858.7	754.6	620.5	533.2
60°	446.3	465.6	507.1	559.5	639.7	726.8	776.1	755.1	649.6	539.1	455.1
62.5°	406.0	424.1	458.8	507.1	575.9	651.7	687.5	658.6	559.1	461.9	395.2
65°	345.1	358.1	386.0	430.5	484.5	536.9	569.0	526.4	438.4	365.0	314.6
67.5°	288.1	299.4	324.2	356.2	393.3	429.6	442.5	402.7	334.3	284.8	249.3
70°	251.2	261.7	278.4	308.3	333.0	358.7	365.0	329.3	272.2	234.4	212.4
72.5°	215.9	225.6	240.2	261.4	278.4	293.3	296.2	263.1	219.2	193.3	176.3
75°	164.6	173.1	182.5	190.4	201.4	204.0	202.9	177.2	153.6	136.3	126.9
77.5°	121.0	124.5	130.3	133.4	133.9	133.7	128.4	112.1	100.0	92.8	89.0
80°	93.3	95.9	97.6	98.6	99.1	93.8	88.1	78.2	73.9	69.8	65.0
82.5°	67.8	69.6	71.1	71.3	68.5	64.1	58.8	53.8	50.9	48.8	47.0
85°	36.7	37.3	36.7	34.1	30.4	28.9	27.8	26.8	26.3	25.7	25.7
87.5°	13.8	13.1	11.6	12.5	13.0	13.1	13.5	13.6	13.6	14.0	14.3
90°	4.2	7.0	9.7	12.3	14.8	17.3	19.6	22.0	24.3	26.1	27.8
92.5°	38.8	40.7	42.5	44.4	46.9	49.8	52.6	55.5	58.5	60.7	62.9
95°	99.7	100.4	101.0	101.7	103.7	107.1	110.5	113.9	117.2	119.7	122.0
97.5°	164.7	165.0	165.3	165.6	168.0	172.7	177.4	182.1	186.7	188.9	191.2
100°	213.2	213.2	213.2	213.2	215.4	219.8	224.2	228.6	233.0	236.1	239.1
102.5°	267.0	268.3	269.6	271.0	272.9	275.1	277.3	279.5	281.8	285.1	288.4
105°	348.9	350.6	352.3	354.1	355.9	357.9	359.9	361.9	364.1	366.1	368.1
107.5°	439.1	440.8	442.5	444.1	445.9	447.4	448.9	450.5	452.0	453.0	454.0
110°	501.3	502.9	504.6	506.3	507.7	508.7	509.7	510.7	511.7	512.7	513.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.8	564.7	565.5	566.4	567.5	568.8	570.1	571.4	572.7	573.1	573.6
115°	657.8	659.1	660.5	661.9	662.9	663.6	664.2	664.9	665.6	665.2	664.9
117.5°	750.8	751.4	752.0	752.7	753.3	753.9	754.5	755.1	755.8	756.0	756.3
120°	810.4	812.1	813.9	815.5	816.5	816.9	817.2	817.5	817.9	817.9	817.9
122.5°	872.7	873.3	873.9	874.5	875.3	876.2	877.1	877.9	878.8	878.5	878.3
125°	960.0	962.1	964.1	966.1	967.3	967.7	968.0	968.4	968.7	968.0	967.3
127.5°	1050.6	1051.7	1052.8	1054.0	1054.8	1055.2	1055.6	1056.0	1056.4	1056.0	1055.7
130°	1105.9	1107.6	1109.2	1111.0	1112.2	1112.9	1113.5	1114.2	1114.9	1114.5	1114.2
132.5°	1161.8	1164.6	1167.4	1170.1	1171.4	1171.3	1171.1	1171.0	1170.9	1170.5	1170.2
135°	1247.9	1249.9	1251.9	1253.9	1255.2	1255.5	1255.9	1256.2	1256.5	1256.5	1256.5
137.5°	1329.5	1331.4	1333.3	1335.3	1336.7	1337.5	1338.2	1338.9	1339.7	1340.1	1340.5
140°	1381.6	1383.2	1384.9	1386.6	1388.0	1389.0	1390.1	1391.1	1392.1	1392.7	1393.4
142.5°	1433.7	1435.1	1436.5	1437.9	1439.3	1440.6	1441.9	1443.2	1444.4	1444.8	1445.2
145°	1510.7	1512.1	1513.4	1514.8	1515.9	1516.9	1517.9	1518.9	1519.9	1519.9	1519.9
147.5°	1581.3	1582.1	1582.9	1583.6	1584.4	1585.2	1586.0	1586.8	1587.6	1588.4	1589.2
150°	1627.8	1627.5	1627.1	1626.8	1627.3	1628.6	1630.0	1631.3	1632.7	1632.7	1632.7
152.5°	1667.6	1668.1	1668.5	1669.0	1669.5	1670.1	1670.6	1671.1	1671.7	1672.5	1673.3
155°	1727.2	1727.2	1727.2	1727.2	1727.3	1727.7	1728.0	1728.3	1728.7	1730.0	1731.3
157.5°	1780.0	1779.3	1778.5	1777.8	1777.6	1777.9	1778.3	1778.6	1778.9	1780.3	1781.6
160°	1811.4	1810.4	1809.4	1808.4	1808.1	1808.4	1808.7	1809.1	1809.4	1810.7	1812.1
162.5°	1839.7	1839.0	1838.3	1837.4	1837.1	1837.1	1837.2	1837.3	1837.3	1839.1	1840.7
165°	1877.2	1876.5	1875.9	1875.2	1875.0	1875.4	1875.7	1876.0	1876.4	1877.7	1879.1
167.5°	1908.2	1906.9	1905.5	1904.2	1903.5	1903.5	1903.5	1903.5	1903.5	1905.5	1907.5
170°	1925.3	1923.9	1922.6	1921.3	1920.6	1920.6	1920.6	1920.6	1920.6	1922.6	1924.6
172.5°	1937.5	1936.1	1934.8	1933.4	1932.8	1932.8	1932.8	1932.8	1932.8	1934.8	1936.8
175°	1951.2	1949.8	1948.4	1947.1	1946.4	1946.4	1946.4	1946.4	1946.4	1948.4	1950.6
177.5°	1958.4	1957.4	1956.3	1955.2	1954.5	1954.3	1954.0	1953.7	1953.5	1955.1	1956.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1333.1	1333.1	1340.3	1339.9	1344.5	1342.8	1343.6
5°	1433.1	1442.0	1449.9	1455.1	1463.0	1465.1	1464.0
7.5°	1536.7	1556.5	1566.2	1579.4	1581.9	1588.7	1588.0
10°	1600.9	1620.3	1635.0	1646.5	1652.3	1659.6	1660.1
12.5°	1651.2	1667.7	1680.7	1691.4	1698.4	1700.7	1702.1
15°	1690.6	1708.9	1724.1	1739.3	1748.3	1755.0	1758.8
17.5°	1730.2	1758.6	1785.3	1806.0	1818.5	1828.9	1828.8
20°	1760.8	1793.3	1826.9	1850.5	1874.6	1885.1	1886.7
22.5°	1793.5	1843.3	1886.5	1923.1	1954.8	1965.7	1969.7
25°	1861.5	1926.5	1993.2	2044.6	2081.2	2102.7	2105.9
27.5°	1943.6	2031.6	2101.7	2149.1	2179.6	2195.5	2199.0
30°	2001.6	2082.8	2145.8	2181.4	2195.5	2197.7	2189.8
32.5°	2027.5	2088.3	2113.4	2111.3	2083.6	2065.1	2058.0
35°	1995.8	1983.2	1921.8	1848.5	1792.3	1756.7	1747.2
37.5°	1816.2	1707.7	1594.8	1483.9	1424.8	1394.8	1343.2
40°	1639.2	1484.5	1367.1	1273.7	1207.1	1153.6	1141.0
42.5°	1439.5	1279.8	1162.4	1082.4	1029.3	992.5	976.5
45°	1156.8	1019.4	922.4	861.0	820.1	793.3	781.3
47.5°	925.2	818.9	748.2	702.8	671.7	648.3	641.9
50°	798.1	713.2	653.4	615.1	591.5	573.7	566.3
52.5°	693.2	624.6	578.7	547.1	524.8	513.7	507.6
55°	572.1	512.8	479.8	454.6	442.0	433.1	428.9
57.5°	467.9	425.1	400.9	383.5	371.9	366.2	364.2
60°	409.5	376.0	354.0	340.3	332.4	325.1	323.1
62.5°	357.9	331.5	314.5	302.6	294.7	291.5	290.3
65°	288.4	271.1	258.5	251.2	244.9	243.9	243.3
67.5°	229.2	219.0	212.5	204.8	202.6	198.9	198.2
70°	196.1	189.2	181.5	178.8	176.2	172.5	173.1
72.5°	166.3	159.6	154.2	150.7	149.8	148.1	149.6
75°	121.7	119.6	117.4	114.8	113.8	113.8	113.3
77.5°	86.8	85.0	82.7	81.2	80.9	78.7	79.5
80°	62.9	60.3	59.3	59.8	58.2	57.7	57.7
82.5°	46.6	45.6	44.5	44.6	44.3	43.8	44.2
85°	25.7	25.1	25.1	24.6	24.6	24.1	24.1
87.5°	15.1	15.9	15.3	15.0	15.2	16.0	16.6
90°	29.5	31.1	32.5	33.5	34.5	35.5	36.6
92.5°	65.1	67.5	68.9	69.7	70.4	71.1	71.9
95°	124.4	126.7	128.3	129.0	129.7	130.3	131.0
97.5°	193.4	195.6	197.0	197.4	197.8	198.2	198.6
100°	242.2	245.2	247.1	247.7	248.4	249.1	249.7
102.5°	291.8	295.0	297.2	298.1	299.0	300.0	300.9
105°	370.1	372.1	373.7	374.7	375.7	376.7	377.7
107.5°	455.0	456.1	456.6	456.5	456.5	456.4	456.3
110°	514.8	515.8	516.1	515.8	515.4	515.1	514.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	574.1	574.5	574.5	573.9	573.3	572.7	572.1
115°	664.6	664.2	663.9	663.6	663.2	662.9	662.6
117.5°	756.6	756.8	756.3	754.9	753.6	752.2	750.8
120°	817.9	817.9	817.2	815.9	814.5	813.1	811.8
122.5°	878.0	877.7	877.1	876.0	874.8	873.7	872.7
125°	966.6	965.9	965.4	965.1	964.7	964.4	964.1
127.5°	1055.4	1055.0	1054.5	1053.8	1053.2	1052.5	1051.8
130°	1113.9	1113.5	1113.0	1112.4	1111.7	1111.0	1110.3
132.5°	1169.9	1169.5	1168.9	1168.0	1167.0	1166.1	1165.1
135°	1256.5	1256.5	1255.9	1254.5	1253.1	1251.7	1250.4
137.5°	1340.9	1341.3	1340.7	1339.0	1337.3	1335.5	1333.8
140°	1394.1	1394.7	1394.2	1392.6	1390.9	1389.2	1387.5
142.5°	1445.6	1446.1	1445.4	1443.7	1442.1	1440.4	1438.7
145°	1519.9	1519.9	1519.4	1518.4	1517.4	1516.4	1515.4
147.5°	1590.0	1590.8	1590.1	1587.8	1585.5	1583.3	1580.9
150°	1632.7	1632.7	1632.3	1631.6	1631.0	1630.3	1629.6
152.5°	1674.2	1675.0	1674.8	1673.5	1672.3	1671.1	1669.9
155°	1732.7	1734.0	1733.9	1732.2	1730.5	1728.8	1727.2
157.5°	1783.0	1784.3	1783.9	1781.6	1779.4	1777.2	1774.9
160°	1813.4	1814.8	1814.6	1812.9	1811.2	1809.6	1807.9
162.5°	1842.3	1843.9	1843.7	1841.8	1839.8	1837.9	1835.8
165°	1880.5	1881.8	1881.5	1879.5	1877.4	1875.4	1873.3
167.5°	1909.6	1911.6	1911.6	1909.5	1907.4	1905.3	1903.2
170°	1926.6	1928.6	1928.5	1926.1	1923.8	1921.4	1919.0
172.5°	1938.8	1940.9	1940.9	1938.7	1936.6	1934.5	1932.5
175°	1952.6	1954.6	1954.4	1952.1	1949.6	1947.3	1944.9
177.5°	1958.3	1959.9	1959.8	1957.9	1956.0	1954.1	1952.3
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1

(END OF REPORT)