

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: P333737-930

Luminaire Tested: **S125RDIW-S1270D1560U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333737-930
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-S1270D1560U930-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 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: 8423.5 lumens
Efficiency: N/A
Efficacy: 101.6 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: General Diffuse

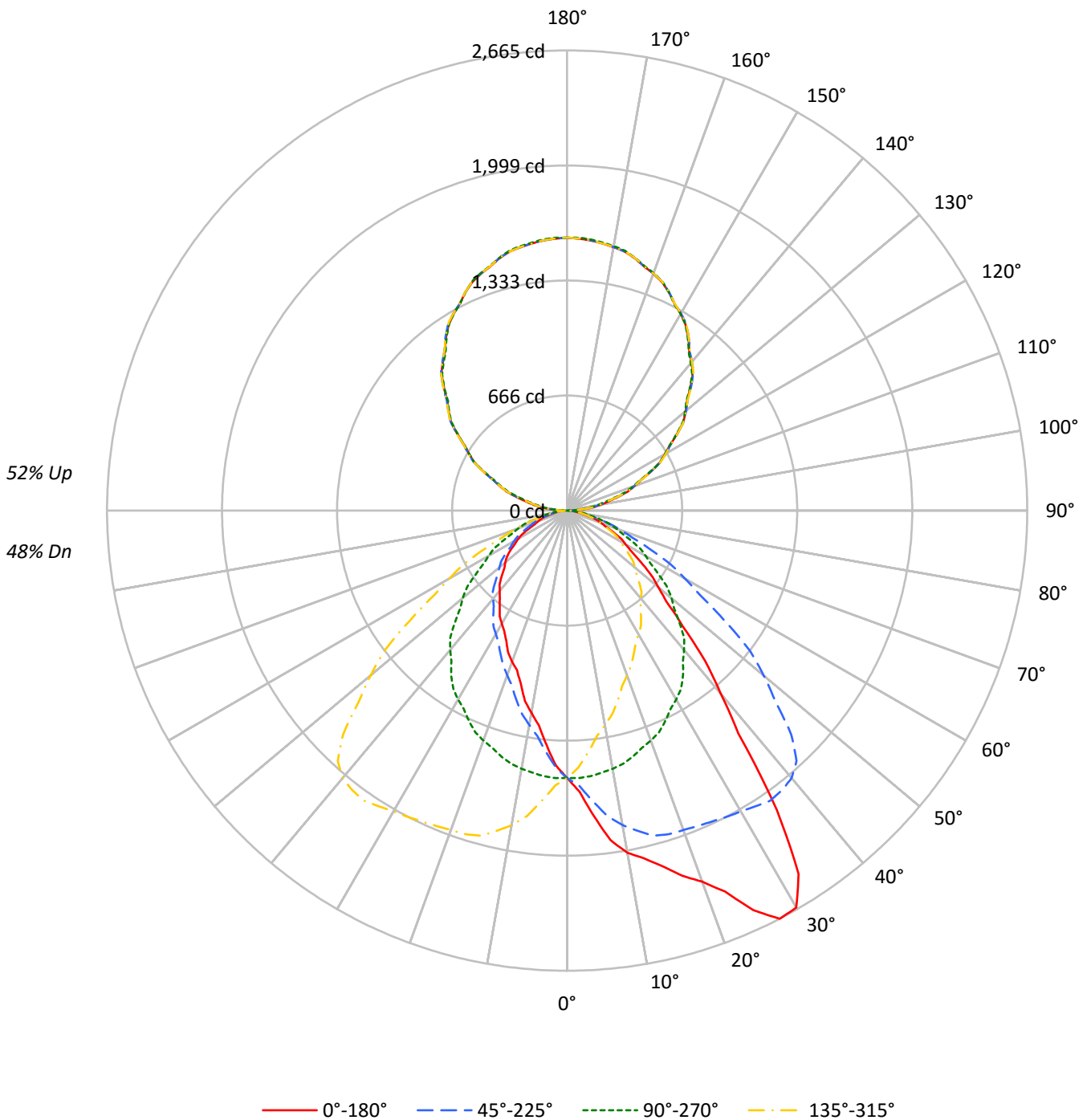
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48									48																			
1	98	94	90	86	90	86	83	80	73	70	68	60	58	57	48	47	46	41									41																			
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	40	35									35																			
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30									30																			
4	75	64	57	51	69	60	53	48	51	45	41	42	38	35	34	32	30	26									26																			
5	69	57	49	44	63	53	46	41	45	40	36	38	34	31	31	28	26	23									23																			
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20									20																			
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18									18																			
8	54	42	35	29	50	39	33	28	34	28	25	29	25	21	24	21	18	16									16																			
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14									14																			
10	47	35	28	24	44	33	27	22	29	23	20	24	20	17	20	17	15	13									13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9999	9999	9999	9999
5°	11503	10012	8842	10012
10°	13195	9961	7802	9961
15°	14252	9859	6935	9859
20°	15716	9740	6403	9740
25°	18188	9583	5942	9583
30°	19792	9417	5640	9417
35°	16696	9224	5361	9224
40°	11659	8878	5123	8878
45°	8649	8411	4887	8411
50°	6897	7924	4687	7924
55°	5853	7320	4508	7320
60°	5057	6781	4220	6781
65°	4507	6195	3632	6195
70°	3960	5676	3312	5676
75°	3426	4916	3109	4916
80°	2600	4136	2600	4136
85°	2171	3253	2445	3253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.8
10°-20°	435.1	5.2
20°-30°	689.8	8.2
30°-40°	831.9	9.9
40°-50°	742.9	8.8
50°-60°	569.7	6.8
60°-70°	370.2	4.4
70°-80°	180.0	2.1
80°-90°	46.4	0.6
90°-100°	105.8	1.3
100°-110°	312.5	3.7
110°-120°	529.3	6.3
120°-130°	696.6	8.3
130°-140°	780.6	9.3
140°-150°	765.0	9.1
150°-160°	642.6	7.6
160°-170°	427.1	5.1
170°-180°	149.5	1.8
0°-30°	1273.4	15.1
0°-40°	2105.3	25.0
0°-60°	3417.9	40.6
0°-90°	4014.5	47.7
90°-120°	947.6	11.2
90°-150°	3189.8	37.9
90°-180°	4409.0	52.3
0°-180°	8423.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1548	1548	1548	1548	1548	
5°	1774	1544	1364	1544	1774	177
15°	2132	1474	1037	1474	2132	611
25°	2552	1345	834	1345	2552	1172
35°	2118	1170	680	1170	2118	1279
45°	947	921	535	921	947	756
55°	520	650	400	650	520	472
65°	295	405	238	405	295	293
75°	137	197	125	197	137	146
85°	29	44	33	44	29	34
90°	30	1	30	1	30	18
95°	106	80	106	80	106	108
105°	305	280	305	280	305	323
115°	535	530	535	530	535	529
125°	778	773	778	773	778	695
135°	1010	1006	1010	1006	1010	779
145°	1223	1218	1223	1218	1223	764
155°	1394	1394	1394	1394	1394	642
165°	1512	1516	1512	1516	1512	426
175°	1570	1576	1570	1576	1570	149
180°	1580	1580	1580	1580	1580	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1628.5	1627.5	1629.5	1623.9	1624.4	1615.8	1615.8	1609.2	1600.5	1593.9	1590.9
5°	1774.4	1775.7	1773.1	1763.6	1757.3	1747.8	1736.9	1717.8	1701.9	1686.7	1674.6
7.5°	1924.7	1925.6	1917.2	1914.2	1898.2	1886.5	1862.5	1836.5	1813.6	1784.4	1761.9
10°	2012.1	2011.5	2002.5	1995.6	1981.6	1963.8	1940.3	1909.8	1881.2	1849.4	1818.9
12.5°	2063.0	2061.3	2058.5	2050.0	2037.0	2021.3	2001.3	1971.3	1936.1	1901.3	1865.6
15°	2131.6	2127.1	2118.9	2108.0	2089.6	2071.2	2048.9	2022.3	1988.6	1949.2	1916.1
17.5°	2216.5	2216.6	2203.9	2188.9	2163.9	2131.4	2097.0	2053.9	2008.2	1964.8	1929.7
20°	2286.7	2284.7	2272.1	2242.8	2214.2	2173.5	2134.1	2081.4	2025.4	1968.9	1925.0
22.5°	2387.4	2382.4	2369.2	2330.8	2286.4	2234.0	2173.8	2109.3	2041.8	1977.5	1919.9
25°	2552.3	2548.5	2522.5	2477.9	2415.7	2334.9	2256.2	2167.8	2070.6	1986.1	1916.1
27.5°	2665.2	2661.0	2641.7	2604.7	2547.2	2462.3	2355.6	2237.6	2116.2	1999.9	1899.1
30°	2654.0	2663.5	2661.0	2643.9	2600.6	2524.3	2425.8	2293.0	2148.7	2012.1	1892.0
32.5°	2494.3	2502.9	2525.2	2558.9	2561.4	2530.9	2457.4	2334.7	2185.3	2029.9	1886.4
35°	2117.6	2129.1	2172.3	2240.3	2329.2	2403.6	2418.8	2352.8	2218.7	2051.5	1878.0
37.5°	1628.0	1690.5	1726.9	1798.5	1932.9	2069.7	2201.2	2249.7	2192.6	2042.7	1864.4
40°	1382.9	1398.2	1463.0	1543.7	1656.9	1799.2	1986.7	2122.1	2126.5	2022.3	1843.1
42.5°	1183.7	1203.0	1247.4	1311.9	1408.8	1551.1	1744.7	1923.3	2006.0	1966.3	1815.1
45°	947.0	961.6	994.0	1043.6	1117.9	1235.5	1402.0	1608.5	1772.5	1836.7	1740.1
47.5°	777.9	785.8	814.0	851.7	906.8	992.5	1121.4	1300.6	1497.3	1635.2	1621.6
50°	686.4	695.3	716.9	745.5	791.9	864.3	967.3	1116.6	1319.4	1487.8	1521.5
52.5°	615.2	622.6	636.0	663.1	701.4	757.1	840.2	975.3	1157.7	1336.8	1414.7
55°	519.8	525.0	535.7	551.0	581.6	621.6	693.3	786.8	934.3	1114.8	1229.1
57.5°	441.3	443.8	450.7	464.8	485.9	515.2	567.0	646.2	752.0	914.5	1040.7
60°	391.5	394.0	402.9	412.5	429.0	455.7	496.4	551.6	653.3	787.4	915.2
62.5°	351.8	353.4	357.2	366.7	381.2	401.8	433.8	478.9	559.8	677.6	798.3
65°	294.9	295.5	296.8	304.4	313.3	328.6	349.5	381.3	442.3	531.3	638.1
67.5°	240.3	241.1	245.6	248.3	257.6	265.5	277.9	302.1	345.1	405.1	488.1
70°	209.7	209.1	213.5	216.7	219.9	229.4	237.7	257.4	284.1	329.9	399.1
72.5°	181.2	179.6	181.5	182.6	186.9	193.3	201.6	213.7	234.2	265.8	318.8
75°	137.3	137.9	137.9	139.2	142.4	144.9	147.4	153.8	165.3	186.2	214.8
77.5°	96.4	95.3	98.0	98.4	100.3	103.1	105.3	107.8	112.5	121.2	135.9
80°	69.9	69.9	70.5	72.5	71.8	73.1	76.2	78.8	84.5	89.6	94.7
82.5°	53.6	53.2	53.7	54.1	54.1	55.3	56.4	56.9	59.1	61.6	65.2
85°	29.3	29.3	29.8	29.8	30.5	30.5	31.1	31.1	31.1	31.8	32.4
87.5°	17.1	16.4	15.7	15.6	15.9	16.7	16.0	15.2	14.9	14.6	14.8
90°	29.5	28.7	27.9	27.1	26.3	25.1	23.8	22.4	21.0	19.6	17.8
92.5°	58.0	57.4	56.8	56.3	55.6	54.5	52.6	50.8	49.0	47.2	44.8
95°	105.7	105.2	104.7	104.1	103.5	102.3	100.4	98.5	96.6	94.7	92.0
97.5°	160.4	160.0	159.7	159.4	159.1	157.9	156.1	154.3	152.5	150.7	147.0
100°	201.6	201.1	200.6	200.0	199.5	198.0	195.5	193.1	190.6	188.1	184.6
102.5°	243.0	242.2	241.4	240.7	239.9	238.1	235.5	232.8	230.2	227.5	225.7
105°	304.9	304.1	303.3	302.5	301.7	300.4	298.8	297.2	295.5	293.9	292.2
107.5°	368.4	368.4	368.5	368.5	368.6	368.2	367.4	366.6	365.7	364.9	363.7
110°	415.6	415.9	416.1	416.5	416.7	416.5	415.6	414.8	413.9	413.1	412.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	461.9	462.4	462.8	463.3	463.8	463.8	463.5	463.1	462.7	462.4	461.3
115°	534.9	535.2	535.4	535.7	536.0	536.2	536.5	536.8	537.0	537.4	536.8
117.5°	606.2	607.3	608.4	609.4	610.6	611.0	610.8	610.6	610.3	610.2	609.6
120°	655.4	656.5	657.5	658.7	659.7	660.3	660.3	660.3	660.3	660.3	660.0
122.5°	704.6	705.4	706.3	707.2	708.1	708.6	708.8	709.1	709.2	709.5	708.7
125°	778.4	778.6	778.9	779.2	779.4	779.8	780.4	781.0	781.5	782.0	781.8
127.5°	849.1	849.7	850.3	850.8	851.3	851.7	852.1	852.3	852.6	852.9	852.6
130°	896.4	896.9	897.5	898.1	898.5	898.9	899.3	899.5	899.8	900.1	899.5
132.5°	940.6	941.4	942.2	943.0	943.7	944.2	944.5	944.8	945.0	945.3	945.4
135°	1009.5	1010.6	1011.7	1012.8	1013.9	1014.4	1014.4	1014.4	1014.4	1014.4	1014.2
137.5°	1076.8	1078.2	1079.6	1081.0	1082.4	1082.9	1082.6	1082.2	1081.9	1081.6	1080.9
140°	1120.1	1121.5	1122.9	1124.3	1125.6	1126.0	1125.5	1124.9	1124.4	1123.9	1123.1
142.5°	1161.5	1162.9	1164.2	1165.6	1166.9	1167.5	1167.1	1166.8	1166.4	1166.1	1165.1
145°	1223.4	1224.3	1225.1	1225.9	1226.7	1227.1	1227.1	1227.1	1227.1	1227.1	1226.3
147.5°	1276.4	1278.2	1280.0	1281.9	1283.8	1284.3	1283.7	1283.0	1282.4	1281.7	1281.1
150°	1315.6	1316.2	1316.8	1317.3	1317.8	1318.2	1318.2	1318.2	1318.2	1318.2	1317.0
152.5°	1348.2	1349.2	1350.1	1351.1	1352.1	1352.3	1351.6	1351.0	1350.3	1349.6	1349.2
155°	1394.4	1395.7	1397.1	1398.5	1399.9	1400.0	1398.9	1397.7	1396.7	1395.6	1395.3
157.5°	1433.0	1434.8	1436.6	1438.4	1440.2	1440.6	1439.5	1438.4	1437.3	1436.1	1435.9
160°	1459.5	1460.9	1462.2	1463.6	1465.0	1465.2	1464.0	1463.0	1461.8	1460.8	1460.5
162.5°	1482.1	1483.8	1485.3	1486.9	1488.5	1488.7	1487.4	1486.0	1484.7	1483.4	1483.4
165°	1512.4	1514.1	1515.7	1517.4	1519.0	1519.2	1518.2	1517.0	1516.0	1514.9	1514.6
167.5°	1536.5	1538.2	1539.9	1541.6	1543.3	1543.3	1541.6	1540.0	1538.4	1536.8	1536.8
170°	1549.3	1551.2	1553.1	1555.0	1557.0	1557.1	1555.4	1553.8	1552.2	1550.5	1550.5
172.5°	1560.2	1561.8	1563.5	1565.2	1566.9	1566.9	1565.3	1563.7	1562.0	1560.4	1560.4
175°	1570.2	1572.1	1574.0	1576.0	1577.8	1578.0	1576.4	1574.8	1573.0	1571.4	1571.4
177.5°	1576.1	1577.6	1579.2	1580.7	1582.3	1582.3	1581.0	1579.7	1578.4	1577.1	1577.3
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1590.9	1587.3	1580.7	1574.6	1567.0	1560.4	1555.8	1550.2	1543.1	1534.5	1527.3
5°	1661.3	1647.3	1628.9	1613.0	1592.7	1576.8	1560.2	1544.3	1528.4	1508.1	1490.4
7.5°	1739.4	1710.5	1682.4	1647.1	1615.0	1586.4	1558.9	1531.1	1503.9	1475.0	1447.2
10°	1787.1	1752.2	1713.4	1668.9	1628.2	1589.5	1553.9	1518.9	1482.1	1449.7	1414.7
12.5°	1831.9	1786.7	1742.4	1686.2	1637.4	1590.0	1544.7	1501.1	1461.8	1419.7	1382.2
15°	1872.3	1827.8	1778.2	1709.6	1641.6	1584.4	1531.0	1474.5	1425.5	1378.5	1336.5
17.5°	1887.9	1841.3	1783.7	1717.8	1643.4	1571.4	1502.7	1440.6	1383.1	1328.3	1281.1
20°	1881.8	1836.7	1777.6	1714.7	1635.2	1560.2	1485.9	1417.2	1353.1	1295.2	1245.0
22.5°	1867.1	1820.4	1763.3	1696.9	1621.5	1542.0	1462.5	1389.3	1322.0	1262.2	1207.4
25°	1844.9	1781.4	1723.0	1658.1	1586.3	1507.5	1425.5	1344.8	1273.0	1211.9	1152.3
27.5°	1821.9	1742.6	1668.3	1603.9	1528.0	1457.7	1378.6	1295.8	1220.3	1158.2	1096.9
30°	1801.1	1712.1	1630.1	1557.1	1485.2	1418.5	1343.5	1262.8	1185.3	1121.1	1058.8
32.5°	1775.2	1680.6	1590.5	1506.2	1437.0	1370.8	1302.8	1225.7	1150.2	1083.9	1020.7
35°	1742.6	1621.9	1524.0	1434.4	1357.5	1293.3	1232.3	1170.0	1094.4	1025.7	964.1
37.5°	1699.9	1562.9	1449.7	1352.0	1271.0	1206.5	1158.3	1101.4	1032.3	966.6	909.5
40°	1674.0	1520.2	1396.3	1299.7	1214.5	1146.5	1101.4	1053.1	990.2	928.5	871.3
42.5°	1639.4	1481.1	1342.4	1241.7	1156.0	1090.5	1045.0	1002.7	950.0	891.9	830.6
45°	1571.7	1405.2	1259.6	1151.6	1065.2	1000.9	958.4	920.9	880.8	827.4	774.0
47.5°	1483.4	1326.0	1173.7	1055.7	971.1	911.5	870.2	840.6	812.0	766.5	714.7
50°	1412.8	1260.9	1112.1	997.8	907.5	851.0	812.2	788.7	762.6	721.3	678.1
52.5°	1329.4	1193.8	1048.1	931.2	846.0	793.0	755.8	732.3	710.8	677.1	635.9
55°	1198.0	1079.1	945.7	839.5	761.4	708.0	672.4	650.1	637.5	608.9	576.4
57.5°	1046.4	961.2	843.5	741.2	672.1	619.3	593.2	574.3	559.9	539.7	516.8
60°	940.6	880.8	775.3	678.1	614.6	564.4	540.9	525.0	511.6	494.5	476.6
62.5°	833.3	789.9	698.1	614.6	556.1	514.0	492.0	477.7	462.3	450.7	433.4
65°	689.6	650.8	587.3	521.8	467.7	434.1	418.2	405.4	395.9	383.2	371.1
67.5°	536.4	520.7	476.8	431.6	392.9	362.9	349.2	340.3	328.8	321.2	312.9
70°	442.3	434.7	403.6	373.7	337.5	317.2	304.4	300.6	286.7	279.0	273.3
72.5°	359.0	355.4	337.5	316.7	291.2	273.4	261.7	257.4	248.5	242.4	238.7
75°	246.0	247.2	244.0	230.7	221.2	209.7	199.6	197.0	190.7	185.6	182.4
77.5°	155.6	162.1	162.3	161.7	157.8	150.9	146.7	144.8	138.5	136.6	135.9
80°	106.8	113.7	120.1	119.4	118.2	116.3	113.2	111.2	108.0	106.2	104.8
82.5°	71.2	77.7	83.0	86.4	86.2	84.3	82.1	81.2	80.6	79.2	78.9
85°	33.7	35.0	36.9	41.3	44.5	45.1	44.5	43.9	41.9	42.6	43.2
87.5°	14.8	14.5	14.6	14.2	13.3	15.3	16.5	16.6	15.9	15.3	14.8
90°	15.8	13.9	12.0	9.9	7.8	5.6	3.4	1.2	3.4	5.6	7.8
92.5°	42.5	40.2	37.8	35.9	34.3	32.9	31.3	29.8	31.3	32.9	34.3
95°	89.2	86.5	83.7	82.1	81.5	81.0	80.5	79.9	80.5	81.0	81.5
97.5°	143.2	139.4	135.7	133.7	133.5	133.2	133.0	132.8	133.0	133.2	133.5
100°	181.0	177.5	173.9	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1
102.5°	223.9	222.1	220.3	218.8	217.7	216.6	215.6	214.4	215.6	216.6	217.7
105°	290.6	288.9	287.3	285.8	284.5	283.1	281.7	280.4	281.7	283.1	284.5
107.5°	362.4	361.2	360.0	358.6	357.3	355.9	354.5	353.1	354.5	355.9	357.3
110°	411.5	410.7	409.9	408.8	407.4	406.0	404.7	403.3	404.7	406.0	407.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	460.2	459.2	458.2	457.3	456.6	455.9	455.2	454.4	455.2	455.9	456.6
115°	536.2	535.7	535.2	534.3	533.2	532.1	531.1	529.9	531.1	532.1	533.2
117.5°	609.1	608.6	608.1	607.6	607.2	606.7	606.2	605.7	606.2	606.7	607.2
120°	659.7	659.5	659.2	658.4	657.0	655.7	654.3	652.9	654.3	655.7	657.0
122.5°	708.1	707.4	706.6	706.0	705.6	705.1	704.6	704.1	704.6	705.1	705.6
125°	781.5	781.2	781.0	780.0	778.4	776.7	775.0	773.4	775.0	776.7	778.4
127.5°	852.2	851.9	851.6	850.9	849.9	849.1	848.2	847.2	848.2	849.1	849.9
130°	898.9	898.5	897.9	896.9	895.5	894.2	892.8	891.4	892.8	894.2	895.5
132.5°	945.5	945.7	945.7	944.7	942.5	940.2	938.0	935.7	938.0	940.2	942.5
135°	1013.9	1013.6	1013.3	1012.4	1010.7	1009.1	1007.5	1005.8	1007.5	1009.1	1010.7
137.5°	1080.4	1079.8	1079.1	1078.1	1076.4	1074.9	1073.3	1071.7	1073.3	1074.9	1076.4
140°	1122.3	1121.4	1120.5	1119.5	1118.1	1116.7	1115.4	1114.0	1115.4	1116.7	1118.1
142.5°	1164.1	1163.0	1162.0	1160.9	1159.8	1158.6	1157.5	1156.3	1157.5	1158.6	1159.8
145°	1225.5	1224.7	1223.8	1222.9	1221.8	1220.7	1219.6	1218.5	1219.6	1220.7	1221.8
147.5°	1280.4	1279.8	1279.1	1278.5	1277.9	1277.2	1276.7	1276.1	1276.7	1277.2	1277.9
150°	1316.0	1314.8	1313.8	1313.4	1313.6	1313.9	1314.2	1314.4	1314.2	1313.9	1313.6
152.5°	1348.7	1348.3	1347.9	1347.4	1347.0	1346.7	1346.3	1345.9	1346.3	1346.7	1347.0
155°	1395.1	1394.8	1394.5	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4
157.5°	1435.7	1435.3	1435.1	1435.3	1435.8	1436.5	1437.0	1437.6	1437.0	1436.5	1435.8
160°	1460.2	1460.0	1459.7	1460.0	1460.8	1461.6	1462.4	1463.2	1462.4	1461.6	1460.8
162.5°	1483.3	1483.2	1483.2	1483.4	1484.1	1484.7	1485.2	1485.9	1485.2	1484.7	1484.1
165°	1514.3	1514.1	1513.8	1513.9	1514.5	1515.0	1515.6	1516.1	1515.6	1515.0	1514.5
167.5°	1536.8	1536.8	1536.8	1537.3	1538.4	1539.5	1540.6	1541.6	1540.6	1539.5	1538.4
170°	1550.5	1550.5	1550.5	1551.1	1552.2	1553.2	1554.4	1555.4	1554.4	1553.2	1552.2
172.5°	1560.4	1560.4	1560.4	1560.9	1562.0	1563.1	1564.2	1565.3	1564.2	1563.1	1562.0
175°	1571.4	1571.4	1571.4	1572.0	1573.0	1574.2	1575.2	1576.4	1575.2	1574.2	1573.0
177.5°	1577.5	1577.8	1577.9	1578.5	1579.4	1580.3	1581.1	1582.0	1581.1	1580.3	1579.4
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1522.2	1515.2	1510.0	1499.8	1492.7	1489.7	1484.1	1482.5	1488.2	1484.1	1483.6
5°	1477.0	1458.6	1444.0	1429.3	1413.4	1403.3	1388.0	1385.4	1381.7	1375.9	1374.7
7.5°	1422.7	1398.7	1379.9	1355.8	1334.7	1317.8	1298.8	1289.7	1284.8	1277.4	1267.5
10°	1386.1	1357.5	1332.1	1307.9	1281.9	1260.9	1241.9	1227.2	1217.6	1208.8	1205.0
12.5°	1350.0	1320.9	1288.3	1259.1	1230.0	1206.5	1185.4	1175.9	1165.3	1154.9	1146.0
15°	1294.0	1255.2	1219.6	1185.9	1161.1	1135.7	1115.3	1101.4	1085.5	1081.1	1063.9
17.5°	1234.4	1196.5	1154.8	1119.3	1090.5	1062.6	1040.2	1024.3	1012.4	996.1	988.1
20°	1197.3	1152.3	1111.6	1079.1	1047.3	1014.3	991.4	978.1	966.6	953.3	947.0
22.5°	1157.7	1113.6	1071.9	1033.9	1001.6	969.1	952.8	939.0	925.9	913.6	905.2
25°	1099.5	1055.0	1011.1	971.8	938.1	914.5	895.4	879.5	872.6	860.5	851.6
27.5°	1041.9	994.6	949.1	909.8	883.4	860.1	844.5	831.9	819.3	808.8	801.0
30°	1004.8	956.5	906.9	875.8	847.8	825.6	808.4	796.3	786.8	777.2	771.5
32.5°	967.7	917.9	873.8	840.2	813.8	794.5	776.9	765.3	755.3	744.7	738.0
35°	908.2	857.4	821.7	788.7	762.6	744.9	732.8	716.2	708.0	700.3	693.3
37.5°	852.9	805.6	767.1	738.1	715.5	697.8	682.2	673.3	663.1	656.2	650.4
40°	812.2	769.0	734.0	703.5	687.1	667.3	652.7	641.2	633.7	624.8	618.4
42.5°	775.6	735.5	701.5	674.1	653.5	636.8	622.7	611.2	601.6	595.3	589.9
45°	723.9	683.9	650.8	625.3	606.3	590.4	575.8	570.1	557.3	549.8	547.2
47.5°	670.3	634.5	602.6	579.2	559.6	544.6	530.9	519.3	512.3	504.8	500.7
50°	634.3	600.0	570.1	547.2	528.2	511.6	498.9	491.3	481.8	474.7	469.7
52.5°	598.2	566.4	536.5	514.6	498.1	481.6	467.4	459.7	450.7	446.3	442.7
55°	546.6	512.9	487.5	465.9	448.7	433.4	420.1	412.5	406.8	402.3	401.0
57.5°	488.1	461.4	437.7	418.3	400.5	386.1	374.5	367.2	362.2	361.5	357.7
60°	450.0	425.8	404.2	383.2	367.9	354.7	344.5	336.2	331.1	330.4	329.2
62.5°	411.8	388.7	368.6	350.2	336.5	323.6	314.0	304.7	301.7	298.5	295.6
65°	355.2	334.3	317.8	303.1	288.5	277.7	268.2	262.4	255.5	251.7	244.7
67.5°	299.7	283.5	267.6	255.3	243.8	233.5	225.6	217.1	212.4	209.4	204.2
70°	263.1	250.4	234.5	221.2	212.3	204.0	197.6	188.1	184.9	182.4	179.9
72.5°	228.5	217.4	204.0	193.2	184.3	176.5	169.2	164.7	161.6	159.0	157.5
75°	179.9	169.1	157.6	150.0	143.7	137.3	133.5	130.3	129.0	128.4	125.8
77.5°	132.1	126.4	117.2	111.1	106.9	104.4	100.9	99.3	99.1	96.4	95.5
80°	101.0	97.8	90.3	87.7	84.5	82.0	80.1	76.9	73.7	72.5	70.5
82.5°	75.1	71.9	68.9	64.8	62.1	60.7	58.7	57.6	58.0	56.2	55.3
85°	40.0	36.9	35.6	35.0	33.7	35.0	34.3	33.7	33.0	32.4	33.0
87.5°	14.7	15.1	15.0	16.4	15.2	16.1	16.4	16.1	16.5	16.7	16.5
90°	9.9	12.0	13.9	15.8	17.8	19.6	21.0	22.4	23.8	25.1	26.3
92.5°	35.9	37.8	40.2	42.5	44.8	47.2	49.0	50.8	52.6	54.5	55.6
95°	82.1	83.7	86.5	89.2	92.0	94.7	96.6	98.5	100.4	102.3	103.5
97.5°	133.7	135.7	139.4	143.2	147.0	150.7	152.5	154.3	156.1	157.9	159.1
100°	172.1	173.9	177.5	181.0	184.6	188.1	190.6	193.1	195.5	198.0	199.5
102.5°	218.8	220.3	222.1	223.9	225.7	227.5	230.2	232.8	235.5	238.1	239.9
105°	285.8	287.3	288.9	290.6	292.2	293.9	295.5	297.2	298.8	300.4	301.7
107.5°	358.6	360.0	361.2	362.4	363.7	364.9	365.7	366.6	367.4	368.2	368.6
110°	408.8	409.9	410.7	411.5	412.3	413.1	413.9	414.8	415.6	416.5	416.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	457.3	458.2	459.2	460.2	461.3	462.4	462.7	463.1	463.5	463.8	463.8
115°	534.3	535.2	535.7	536.2	536.8	537.4	537.0	536.8	536.5	536.2	536.0
117.5°	607.6	608.1	608.6	609.1	609.6	610.2	610.3	610.6	610.8	611.0	610.6
120°	658.4	659.2	659.5	659.7	660.0	660.3	660.3	660.3	660.3	660.3	659.7
122.5°	706.0	706.6	707.4	708.1	708.7	709.5	709.2	709.1	708.8	708.6	708.1
125°	780.0	781.0	781.2	781.5	781.8	782.0	781.5	781.0	780.4	779.8	779.4
127.5°	850.9	851.6	851.9	852.2	852.6	852.9	852.6	852.3	852.1	851.7	851.3
130°	896.9	897.9	898.5	898.9	899.5	900.1	899.8	899.5	899.3	898.9	898.5
132.5°	944.7	945.7	945.7	945.5	945.4	945.3	945.0	944.8	944.5	944.2	943.7
135°	1012.4	1013.3	1013.6	1013.9	1014.2	1014.4	1014.4	1014.4	1014.4	1014.4	1013.9
137.5°	1078.1	1079.1	1079.8	1080.4	1080.9	1081.6	1081.9	1082.2	1082.6	1082.9	1082.4
140°	1119.5	1120.5	1121.4	1122.3	1123.1	1123.9	1124.4	1124.9	1125.5	1126.0	1125.6
142.5°	1160.9	1162.0	1163.0	1164.1	1165.1	1166.1	1166.4	1166.8	1167.1	1167.5	1166.9
145°	1222.9	1223.8	1224.7	1225.5	1226.3	1227.1	1227.1	1227.1	1227.1	1227.1	1226.7
147.5°	1278.5	1279.1	1279.8	1280.4	1281.1	1281.7	1282.4	1283.0	1283.7	1284.3	1283.8
150°	1313.4	1313.8	1314.8	1316.0	1317.0	1318.2	1318.2	1318.2	1318.2	1318.2	1317.8
152.5°	1347.4	1347.9	1348.3	1348.7	1349.2	1349.6	1350.3	1351.0	1351.6	1352.3	1352.1
155°	1394.4	1394.5	1394.8	1395.1	1395.3	1395.6	1396.7	1397.7	1398.9	1400.0	1399.9
157.5°	1435.3	1435.1	1435.3	1435.7	1435.9	1436.1	1437.3	1438.4	1439.5	1440.6	1440.2
160°	1460.0	1459.7	1460.0	1460.2	1460.5	1460.8	1461.8	1463.0	1464.0	1465.2	1465.0
162.5°	1483.4	1483.2	1483.2	1483.3	1483.4	1483.4	1484.7	1486.0	1487.4	1488.7	1488.5
165°	1513.9	1513.8	1514.1	1514.3	1514.6	1514.9	1516.0	1517.0	1518.2	1519.2	1519.0
167.5°	1537.3	1536.8	1536.8	1536.8	1536.8	1536.8	1538.4	1540.0	1541.6	1543.3	1543.3
170°	1551.1	1550.5	1550.5	1550.5	1550.5	1550.5	1552.2	1553.8	1555.4	1557.1	1557.0
172.5°	1560.9	1560.4	1560.4	1560.4	1560.4	1560.4	1562.0	1563.7	1565.3	1566.9	1566.9
175°	1572.0	1571.4	1571.4	1571.4	1571.4	1571.4	1573.0	1574.8	1576.4	1578.0	1577.8
177.5°	1578.5	1577.9	1577.8	1577.5	1577.3	1577.1	1578.4	1579.7	1581.0	1582.3	1582.3
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1



TEST NUMBER: P333737-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1483.1	1477.5	1475.9	1478.0	1475.9	1477.5	1483.1	1483.6	1484.1	1488.2	1482.5
5°	1368.3	1362.0	1365.1	1363.8	1365.1	1362.0	1368.3	1374.7	1375.9	1381.7	1385.4
7.5°	1267.4	1259.5	1251.1	1253.8	1251.1	1259.5	1267.4	1267.5	1277.4	1284.8	1289.7
10°	1196.7	1190.3	1186.5	1189.7	1186.5	1190.3	1196.7	1205.0	1208.8	1217.6	1227.2
12.5°	1137.3	1133.4	1130.1	1128.7	1130.1	1133.4	1137.3	1146.0	1154.9	1165.3	1175.9
15°	1056.2	1048.6	1045.5	1037.2	1045.5	1048.6	1056.2	1063.9	1081.1	1085.5	1101.4
17.5°	981.6	979.1	970.9	967.3	970.9	979.1	981.6	988.1	996.1	1012.4	1024.3
20°	937.4	934.9	926.6	931.7	926.6	934.9	937.4	947.0	953.3	966.6	978.1
22.5°	900.8	895.2	892.5	891.0	892.5	895.2	900.8	905.2	913.6	925.9	939.0
25°	849.1	840.8	837.6	833.8	837.6	840.8	849.1	851.6	860.5	872.6	879.5
27.5°	797.4	793.0	788.8	787.8	788.8	793.0	797.4	801.0	808.8	819.3	831.9
30°	763.9	759.5	756.3	756.3	756.3	759.5	763.9	771.5	777.2	786.8	796.3
32.5°	733.9	730.5	727.3	726.8	727.3	730.5	733.9	738.0	744.7	755.3	765.3
35°	690.2	685.1	683.9	680.0	683.9	685.1	690.2	693.3	700.3	708.0	716.2
37.5°	644.8	640.6	640.5	640.1	640.5	640.6	644.8	650.4	656.2	663.1	673.3
40°	615.8	612.6	612.0	607.6	612.0	612.6	615.8	618.4	624.8	633.7	641.2
42.5°	584.8	583.2	581.0	579.1	581.0	583.2	584.8	589.9	595.3	601.6	611.2
45°	542.7	538.3	538.3	535.1	538.3	538.3	542.7	547.2	549.8	557.3	570.1
47.5°	499.3	495.9	496.2	492.9	496.2	495.9	499.3	500.7	504.8	512.3	519.3
50°	470.3	468.4	467.7	466.5	467.7	468.4	470.3	469.7	474.7	481.8	491.3
52.5°	441.3	440.4	442.9	440.0	442.9	440.4	441.3	442.7	446.3	450.7	459.7
55°	402.3	400.4	404.2	400.4	404.2	400.4	402.3	401.0	402.3	406.8	412.5
57.5°	357.4	355.6	359.1	357.2	359.1	355.6	357.4	357.7	361.5	362.2	367.2
60°	327.9	324.2	326.0	326.7	326.0	324.2	327.9	329.2	330.4	331.1	336.2
62.5°	292.9	290.6	292.0	289.0	292.0	290.6	292.9	295.6	298.5	301.7	304.7
65°	243.4	241.5	239.0	237.7	239.0	241.5	243.4	244.7	251.7	255.5	262.4
67.5°	204.5	199.9	199.8	200.8	199.8	199.9	204.5	204.2	209.4	212.4	217.1
70°	176.0	176.0	175.4	175.4	175.4	176.0	176.0	179.9	182.4	184.9	188.1
72.5°	156.2	155.7	154.6	154.1	154.6	155.7	156.2	157.5	159.0	161.6	164.7
75°	125.8	126.5	125.2	124.6	125.2	126.5	125.8	125.8	128.4	129.0	130.3
77.5°	92.9	90.3	91.6	90.3	91.6	90.3	92.9	95.5	96.4	99.1	99.3
80°	70.5	69.9	71.8	69.9	71.8	69.9	70.5	70.5	72.5	73.7	76.9
82.5°	55.8	55.2	56.1	54.6	56.1	55.2	55.8	55.3	56.2	58.0	57.6
85°	33.7	33.0	32.4	33.0	32.4	33.0	33.7	33.0	32.4	33.0	33.7
87.5°	17.1	16.8	17.0	17.1	17.0	16.8	17.1	16.5	16.7	16.5	16.1
90°	27.1	27.9	28.7	29.5	28.7	27.9	27.1	26.3	25.1	23.8	22.4
92.5°	56.3	56.8	57.4	58.0	57.4	56.8	56.3	55.6	54.5	52.6	50.8
95°	104.1	104.7	105.2	105.7	105.2	104.7	104.1	103.5	102.3	100.4	98.5
97.5°	159.4	159.7	160.0	160.4	160.0	159.7	159.4	159.1	157.9	156.1	154.3
100°	200.0	200.6	201.1	201.6	201.1	200.6	200.0	199.5	198.0	195.5	193.1
102.5°	240.7	241.4	242.2	243.0	242.2	241.4	240.7	239.9	238.1	235.5	232.8
105°	302.5	303.3	304.1	304.9	304.1	303.3	302.5	301.7	300.4	298.8	297.2
107.5°	368.5	368.5	368.4	368.4	368.4	368.5	368.5	368.6	368.2	367.4	366.6
110°	416.5	416.1	415.9	415.6	415.9	416.1	416.5	416.7	416.5	415.6	414.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	463.3	462.8	462.4	461.9	462.4	462.8	463.3	463.8	463.8	463.5	463.1
115°	535.7	535.4	535.2	534.9	535.2	535.4	535.7	536.0	536.2	536.5	536.8
117.5°	609.4	608.4	607.3	606.2	607.3	608.4	609.4	610.6	611.0	610.8	610.6
120°	658.7	657.5	656.5	655.4	656.5	657.5	658.7	659.7	660.3	660.3	660.3
122.5°	707.2	706.3	705.4	704.6	705.4	706.3	707.2	708.1	708.6	708.8	709.1
125°	779.2	778.9	778.6	778.4	778.6	778.9	779.2	779.4	779.8	780.4	781.0
127.5°	850.8	850.3	849.7	849.1	849.7	850.3	850.8	851.3	851.7	852.1	852.3
130°	898.1	897.5	896.9	896.4	896.9	897.5	898.1	898.5	898.9	899.3	899.5
132.5°	943.0	942.2	941.4	940.6	941.4	942.2	943.0	943.7	944.2	944.5	944.8
135°	1012.8	1011.7	1010.6	1009.5	1010.6	1011.7	1012.8	1013.9	1014.4	1014.4	1014.4
137.5°	1081.0	1079.6	1078.2	1076.8	1078.2	1079.6	1081.0	1082.4	1082.9	1082.6	1082.2
140°	1124.3	1122.9	1121.5	1120.1	1121.5	1122.9	1124.3	1125.6	1126.0	1125.5	1124.9
142.5°	1165.6	1164.2	1162.9	1161.5	1162.9	1164.2	1165.6	1166.9	1167.5	1167.1	1166.8
145°	1225.9	1225.1	1224.3	1223.4	1224.3	1225.1	1225.9	1226.7	1227.1	1227.1	1227.1
147.5°	1281.9	1280.0	1278.2	1276.4	1278.2	1280.0	1281.9	1283.8	1284.3	1283.7	1283.0
150°	1317.3	1316.8	1316.2	1315.6	1316.2	1316.8	1317.3	1317.8	1318.2	1318.2	1318.2
152.5°	1351.1	1350.1	1349.2	1348.2	1349.2	1350.1	1351.1	1352.1	1352.3	1351.6	1351.0
155°	1398.5	1397.1	1395.7	1394.4	1395.7	1397.1	1398.5	1399.9	1400.0	1398.9	1397.7
157.5°	1438.4	1436.6	1434.8	1433.0	1434.8	1436.6	1438.4	1440.2	1440.6	1439.5	1438.4
160°	1463.6	1462.2	1460.9	1459.5	1460.9	1462.2	1463.6	1465.0	1465.2	1464.0	1463.0
162.5°	1486.9	1485.3	1483.8	1482.1	1483.8	1485.3	1486.9	1488.5	1488.7	1487.4	1486.0
165°	1517.4	1515.7	1514.1	1512.4	1514.1	1515.7	1517.4	1519.0	1519.2	1518.2	1517.0
167.5°	1541.6	1539.9	1538.2	1536.5	1538.2	1539.9	1541.6	1543.3	1543.3	1541.6	1540.0
170°	1555.0	1553.1	1551.2	1549.3	1551.2	1553.1	1555.0	1557.0	1557.1	1555.4	1553.8
172.5°	1565.2	1563.5	1561.8	1560.2	1561.8	1563.5	1565.2	1566.9	1566.9	1565.3	1563.7
175°	1576.0	1574.0	1572.1	1570.2	1572.1	1574.0	1576.0	1577.8	1578.0	1576.4	1574.8
177.5°	1580.7	1579.2	1577.6	1576.1	1577.6	1579.2	1580.7	1582.3	1582.3	1581.0	1579.7
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1484.1	1489.7	1492.7	1499.8	1510.0	1515.2	1522.2	1527.3	1534.5	1543.1	1550.2
5°	1388.0	1403.3	1413.4	1429.3	1444.0	1458.6	1477.0	1490.4	1508.1	1528.4	1544.3
7.5°	1298.8	1317.8	1334.7	1355.8	1379.9	1398.7	1422.7	1447.2	1475.0	1503.9	1531.1
10°	1241.9	1260.9	1281.9	1307.9	1332.1	1357.5	1386.1	1414.7	1449.7	1482.1	1518.9
12.5°	1185.4	1206.5	1230.0	1259.1	1288.3	1320.9	1350.0	1382.2	1419.7	1461.8	1501.1
15°	1115.3	1135.7	1161.1	1185.9	1219.6	1255.2	1294.0	1336.5	1378.5	1425.5	1474.5
17.5°	1040.2	1062.6	1090.5	1119.3	1154.8	1196.5	1234.4	1281.1	1328.3	1383.1	1440.6
20°	991.4	1014.3	1047.3	1079.1	1111.6	1152.3	1197.3	1245.0	1295.2	1353.1	1417.2
22.5°	952.8	969.1	1001.6	1033.9	1071.9	1113.6	1157.7	1207.4	1262.2	1322.0	1389.3
25°	895.4	914.5	938.1	971.8	1011.1	1055.0	1099.5	1152.3	1211.9	1273.0	1344.8
27.5°	844.5	860.1	883.4	909.8	949.1	994.6	1041.9	1096.9	1158.2	1220.3	1295.8
30°	808.4	825.6	847.8	875.8	906.9	956.5	1004.8	1058.8	1121.1	1185.3	1262.8
32.5°	776.9	794.5	813.8	840.2	873.8	917.9	967.7	1020.7	1083.9	1150.2	1225.7
35°	732.8	744.9	762.6	788.7	821.7	857.4	908.2	964.1	1025.7	1094.4	1170.0
37.5°	682.2	697.8	715.5	738.1	767.1	805.6	852.9	909.5	966.6	1032.3	1101.4
40°	652.7	667.3	687.1	703.5	734.0	769.0	812.2	871.3	928.5	990.2	1053.1
42.5°	622.7	636.8	653.5	674.1	701.5	735.5	775.6	830.6	891.9	950.0	1002.7
45°	575.8	590.4	606.3	625.3	650.8	683.9	723.9	774.0	827.4	880.8	920.9
47.5°	530.9	544.6	559.6	579.2	602.6	634.5	670.3	714.7	766.5	812.0	840.6
50°	498.9	511.6	528.2	547.2	570.1	600.0	634.3	678.1	721.3	762.6	788.7
52.5°	467.4	481.6	498.1	514.6	536.5	566.4	598.2	635.9	677.1	710.8	732.3
55°	420.1	433.4	448.7	465.9	487.5	512.9	546.6	576.4	608.9	637.5	650.1
57.5°	374.5	386.1	400.5	418.3	437.7	461.4	488.1	516.8	539.7	559.9	574.3
60°	344.5	354.7	367.9	383.2	404.2	425.8	450.0	476.6	494.5	511.6	525.0
62.5°	314.0	323.6	336.5	350.2	368.6	388.7	411.8	433.4	450.7	462.3	477.7
65°	268.2	277.7	288.5	303.1	317.8	334.3	355.2	371.1	383.2	395.9	405.4
67.5°	225.6	233.5	243.8	255.3	267.6	283.5	299.7	312.9	321.2	328.8	340.3
70°	197.6	204.0	212.3	221.2	234.5	250.4	263.1	273.3	279.0	286.7	300.6
72.5°	169.2	176.5	184.3	193.2	204.0	217.4	228.5	238.7	242.4	248.5	257.4
75°	133.5	137.3	143.7	150.0	157.6	169.1	179.9	182.4	185.6	190.7	197.0
77.5°	100.9	104.4	106.9	111.1	117.2	126.4	132.1	135.9	136.6	138.5	144.8
80°	80.1	82.0	84.5	87.7	90.3	97.8	101.0	104.8	106.2	108.0	111.2
82.5°	58.7	60.7	62.1	64.8	68.9	71.9	75.1	78.9	79.2	80.6	81.2
85°	34.3	35.0	33.7	35.0	35.6	36.9	40.0	43.2	42.6	41.9	43.9
87.5°	16.4	16.1	15.2	16.4	15.0	15.1	14.7	14.8	15.3	15.9	16.6
90°	21.0	19.6	17.8	15.8	13.9	12.0	9.9	7.8	5.6	3.4	1.2
92.5°	49.0	47.2	44.8	42.5	40.2	37.8	35.9	34.3	32.9	31.3	29.8
95°	96.6	94.7	92.0	89.2	86.5	83.7	82.1	81.5	81.0	80.5	79.9
97.5°	152.5	150.7	147.0	143.2	139.4	135.7	133.7	133.5	133.2	133.0	132.8
100°	190.6	188.1	184.6	181.0	177.5	173.9	172.1	172.1	172.1	172.1	172.1
102.5°	230.2	227.5	225.7	223.9	222.1	220.3	218.8	217.7	216.6	215.6	214.4
105°	295.5	293.9	292.2	290.6	288.9	287.3	285.8	284.5	283.1	281.7	280.4
107.5°	365.7	364.9	363.7	362.4	361.2	360.0	358.6	357.3	355.9	354.5	353.1
110°	413.9	413.1	412.3	411.5	410.7	409.9	408.8	407.4	406.0	404.7	403.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	462.7	462.4	461.3	460.2	459.2	458.2	457.3	456.6	455.9	455.2	454.4
115°	537.0	537.4	536.8	536.2	535.7	535.2	534.3	533.2	532.1	531.1	529.9
117.5°	610.3	610.2	609.6	609.1	608.6	608.1	607.6	607.2	606.7	606.2	605.7
120°	660.3	660.3	660.0	659.7	659.5	659.2	658.4	657.0	655.7	654.3	652.9
122.5°	709.2	709.5	708.7	708.1	707.4	706.6	706.0	705.6	705.1	704.6	704.1
125°	781.5	782.0	781.8	781.5	781.2	781.0	780.0	778.4	776.7	775.0	773.4
127.5°	852.6	852.9	852.6	852.2	851.9	851.6	850.9	849.9	849.1	848.2	847.2
130°	899.8	900.1	899.5	898.9	898.5	897.9	896.9	895.5	894.2	892.8	891.4
132.5°	945.0	945.3	945.4	945.5	945.7	945.7	944.7	942.5	940.2	938.0	935.7
135°	1014.4	1014.4	1014.2	1013.9	1013.6	1013.3	1012.4	1010.7	1009.1	1007.5	1005.8
137.5°	1081.9	1081.6	1080.9	1080.4	1079.8	1079.1	1078.1	1076.4	1074.9	1073.3	1071.7
140°	1124.4	1123.9	1123.1	1122.3	1121.4	1120.5	1119.5	1118.1	1116.7	1115.4	1114.0
142.5°	1166.4	1166.1	1165.1	1164.1	1163.0	1162.0	1160.9	1159.8	1158.6	1157.5	1156.3
145°	1227.1	1227.1	1226.3	1225.5	1224.7	1223.8	1222.9	1221.8	1220.7	1219.6	1218.5
147.5°	1282.4	1281.7	1281.1	1280.4	1279.8	1279.1	1278.5	1277.9	1277.2	1276.7	1276.1
150°	1318.2	1318.2	1317.0	1316.0	1314.8	1313.8	1313.4	1313.6	1313.9	1314.2	1314.4
152.5°	1350.3	1349.6	1349.2	1348.7	1348.3	1347.9	1347.4	1347.0	1346.7	1346.3	1345.9
155°	1396.7	1395.6	1395.3	1395.1	1394.8	1394.5	1394.4	1394.4	1394.4	1394.4	1394.4
157.5°	1437.3	1436.1	1435.9	1435.7	1435.3	1435.1	1435.3	1435.8	1436.5	1437.0	1437.6
160°	1461.8	1460.8	1460.5	1460.2	1460.0	1459.7	1460.0	1460.8	1461.6	1462.4	1463.2
162.5°	1484.7	1483.4	1483.4	1483.3	1483.2	1483.2	1483.4	1484.1	1484.7	1485.2	1485.9
165°	1516.0	1514.9	1514.6	1514.3	1514.1	1513.8	1513.9	1514.5	1515.0	1515.6	1516.1
167.5°	1538.4	1536.8	1536.8	1536.8	1536.8	1536.8	1537.3	1538.4	1539.5	1540.6	1541.6
170°	1552.2	1550.5	1550.5	1550.5	1550.5	1550.5	1551.1	1552.2	1553.2	1554.4	1555.4
172.5°	1562.0	1560.4	1560.4	1560.4	1560.4	1560.4	1560.9	1562.0	1563.1	1564.2	1565.3
175°	1573.0	1571.4	1571.4	1571.4	1571.4	1571.4	1572.0	1573.0	1574.2	1575.2	1576.4
177.5°	1578.4	1577.1	1577.3	1577.5	1577.8	1577.9	1578.5	1579.4	1580.3	1581.1	1582.0
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1555.8	1560.4	1567.0	1574.6	1580.7	1587.3	1590.9	1590.9	1593.9	1600.5	1609.2
5°	1560.2	1576.8	1592.7	1613.0	1628.9	1647.3	1661.3	1674.6	1686.7	1701.9	1717.8
7.5°	1558.9	1586.4	1615.0	1647.1	1682.4	1710.5	1739.4	1761.9	1784.4	1813.6	1836.5
10°	1553.9	1589.5	1628.2	1668.9	1713.4	1752.2	1787.1	1818.9	1849.4	1881.2	1909.8
12.5°	1544.7	1590.0	1637.4	1686.2	1742.4	1786.7	1831.9	1865.6	1901.3	1936.1	1971.3
15°	1531.0	1584.4	1641.6	1709.6	1778.2	1827.8	1872.3	1916.1	1949.2	1988.6	2022.3
17.5°	1502.7	1571.4	1643.4	1717.8	1783.7	1841.3	1887.9	1929.7	1964.8	2008.2	2053.9
20°	1485.9	1560.2	1635.2	1714.7	1777.6	1836.7	1881.8	1925.0	1968.9	2025.4	2081.4
22.5°	1462.5	1542.0	1621.5	1696.9	1763.3	1820.4	1867.1	1919.9	1977.5	2041.8	2109.3
25°	1425.5	1507.5	1586.3	1658.1	1723.0	1781.4	1844.9	1916.1	1986.1	2070.6	2167.8
27.5°	1378.6	1457.7	1528.0	1603.9	1668.3	1742.6	1821.9	1899.1	1999.9	2116.2	2237.6
30°	1343.5	1418.5	1485.2	1557.1	1630.1	1712.1	1801.1	1892.0	2012.1	2148.7	2293.0
32.5°	1302.8	1370.8	1437.0	1506.2	1590.5	1680.6	1775.2	1886.4	2029.9	2185.3	2334.7
35°	1232.3	1293.3	1357.5	1434.4	1524.0	1621.9	1742.6	1878.0	2051.5	2218.7	2352.8
37.5°	1158.3	1206.5	1271.0	1352.0	1449.7	1562.9	1699.9	1864.4	2042.7	2192.6	2249.7
40°	1101.4	1146.5	1214.5	1299.7	1396.3	1520.2	1674.0	1843.1	2022.3	2126.5	2122.1
42.5°	1045.0	1090.5	1156.0	1241.7	1342.4	1481.1	1639.4	1815.1	1966.3	2006.0	1923.3
45°	958.4	1000.9	1065.2	1151.6	1259.6	1405.2	1571.7	1740.1	1836.7	1772.5	1608.5
47.5°	870.2	911.5	971.1	1055.7	1173.7	1326.0	1483.4	1621.6	1635.2	1497.3	1300.6
50°	812.2	851.0	907.5	997.8	1112.1	1260.9	1412.8	1521.5	1487.8	1319.4	1116.6
52.5°	755.8	793.0	846.0	931.2	1048.1	1193.8	1329.4	1414.7	1336.8	1157.7	975.3
55°	672.4	708.0	761.4	839.5	945.7	1079.1	1198.0	1229.1	1114.8	934.3	786.8
57.5°	593.2	619.3	672.1	741.2	843.5	961.2	1046.4	1040.7	914.5	752.0	646.2
60°	540.9	564.4	614.6	678.1	775.3	880.8	940.6	915.2	787.4	653.3	551.6
62.5°	492.0	514.0	556.1	614.6	698.1	789.9	833.3	798.3	677.6	559.8	478.9
65°	418.2	434.1	467.7	521.8	587.3	650.8	689.6	638.1	531.3	442.3	381.3
67.5°	349.2	362.9	392.9	431.6	476.8	520.7	536.4	488.1	405.1	345.1	302.1
70°	304.4	317.2	337.5	373.7	403.6	434.7	442.3	399.1	329.9	284.1	257.4
72.5°	261.7	273.4	291.2	316.7	337.5	355.4	359.0	318.8	265.8	234.2	213.7
75°	199.6	209.7	221.2	230.7	244.0	247.2	246.0	214.8	186.2	165.3	153.8
77.5°	146.7	150.9	157.8	161.7	162.3	162.1	155.6	135.9	121.2	112.5	107.8
80°	113.2	116.3	118.2	119.4	120.1	113.7	106.8	94.7	89.6	84.5	78.8
82.5°	82.1	84.3	86.2	86.4	83.0	77.7	71.2	65.2	61.6	59.1	56.9
85°	44.5	45.1	44.5	41.3	36.9	35.0	33.7	32.4	31.8	31.1	31.1
87.5°	16.5	15.3	13.3	14.2	14.6	14.5	14.8	14.8	14.6	14.9	15.2
90°	3.4	5.6	7.8	9.9	12.0	13.9	15.8	17.8	19.6	21.0	22.4
92.5°	31.3	32.9	34.3	35.9	37.8	40.2	42.5	44.8	47.2	49.0	50.8
95°	80.5	81.0	81.5	82.1	83.7	86.5	89.2	92.0	94.7	96.6	98.5
97.5°	133.0	133.2	133.5	133.7	135.7	139.4	143.2	147.0	150.7	152.5	154.3
100°	172.1	172.1	172.1	172.1	173.9	177.5	181.0	184.6	188.1	190.6	193.1
102.5°	215.6	216.6	217.7	218.8	220.3	222.1	223.9	225.7	227.5	230.2	232.8
105°	281.7	283.1	284.5	285.8	287.3	288.9	290.6	292.2	293.9	295.5	297.2
107.5°	354.5	355.9	357.3	358.6	360.0	361.2	362.4	363.7	364.9	365.7	366.6
110°	404.7	406.0	407.4	408.8	409.9	410.7	411.5	412.3	413.1	413.9	414.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	455.2	455.9	456.6	457.3	458.2	459.2	460.2	461.3	462.4	462.7	463.1
115°	531.1	532.1	533.2	534.3	535.2	535.7	536.2	536.8	537.4	537.0	536.8
117.5°	606.2	606.7	607.2	607.6	608.1	608.6	609.1	609.6	610.2	610.3	610.6
120°	654.3	655.7	657.0	658.4	659.2	659.5	659.7	660.0	660.3	660.3	660.3
122.5°	704.6	705.1	705.6	706.0	706.6	707.4	708.1	708.7	709.5	709.2	709.1
125°	775.0	776.7	778.4	780.0	781.0	781.2	781.5	781.8	782.0	781.5	781.0
127.5°	848.2	849.1	849.9	850.9	851.6	851.9	852.2	852.6	852.9	852.6	852.3
130°	892.8	894.2	895.5	896.9	897.9	898.5	898.9	899.5	900.1	899.8	899.5
132.5°	938.0	940.2	942.5	944.7	945.7	945.7	945.5	945.4	945.3	945.0	944.8
135°	1007.5	1009.1	1010.7	1012.4	1013.3	1013.6	1013.9	1014.2	1014.4	1014.4	1014.4
137.5°	1073.3	1074.9	1076.4	1078.1	1079.1	1079.8	1080.4	1080.9	1081.6	1081.9	1082.2
140°	1115.4	1116.7	1118.1	1119.5	1120.5	1121.4	1122.3	1123.1	1123.9	1124.4	1124.9
142.5°	1157.5	1158.6	1159.8	1160.9	1162.0	1163.0	1164.1	1165.1	1166.1	1166.4	1166.8
145°	1219.6	1220.7	1221.8	1222.9	1223.8	1224.7	1225.5	1226.3	1227.1	1227.1	1227.1
147.5°	1276.7	1277.2	1277.9	1278.5	1279.1	1279.8	1280.4	1281.1	1281.7	1282.4	1283.0
150°	1314.2	1313.9	1313.6	1313.4	1313.8	1314.8	1316.0	1317.0	1318.2	1318.2	1318.2
152.5°	1346.3	1346.7	1347.0	1347.4	1347.9	1348.3	1348.7	1349.2	1349.6	1350.3	1351.0
155°	1394.4	1394.4	1394.4	1394.4	1394.5	1394.8	1395.1	1395.3	1395.6	1396.7	1397.7
157.5°	1437.0	1436.5	1435.8	1435.3	1435.1	1435.3	1435.7	1435.9	1436.1	1437.3	1438.4
160°	1462.4	1461.6	1460.8	1460.0	1459.7	1460.0	1460.2	1460.5	1460.8	1461.8	1463.0
162.5°	1485.2	1484.7	1484.1	1483.4	1483.2	1483.2	1483.3	1483.4	1483.4	1484.7	1486.0
165°	1515.6	1515.0	1514.5	1513.9	1513.8	1514.1	1514.3	1514.6	1514.9	1516.0	1517.0
167.5°	1540.6	1539.5	1538.4	1537.3	1536.8	1536.8	1536.8	1536.8	1536.8	1538.4	1540.0
170°	1554.4	1553.2	1552.2	1551.1	1550.5	1550.5	1550.5	1550.5	1550.5	1552.2	1553.8
172.5°	1564.2	1563.1	1562.0	1560.9	1560.4	1560.4	1560.4	1560.4	1560.4	1562.0	1563.7
175°	1575.2	1574.2	1573.0	1572.0	1571.4	1571.4	1571.4	1571.4	1571.4	1573.0	1574.8
177.5°	1581.1	1580.3	1579.4	1578.5	1577.9	1577.8	1577.5	1577.3	1577.1	1578.4	1579.7
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1615.8	1615.8	1624.4	1623.9	1629.5	1627.5	1628.5
5°	1736.9	1747.8	1757.3	1763.6	1773.1	1775.7	1774.4
7.5°	1862.5	1886.5	1898.2	1914.2	1917.2	1925.6	1924.7
10°	1940.3	1963.8	1981.6	1995.6	2002.5	2011.5	2012.1
12.5°	2001.3	2021.3	2037.0	2050.0	2058.5	2061.3	2063.0
15°	2048.9	2071.2	2089.6	2108.0	2118.9	2127.1	2131.6
17.5°	2097.0	2131.4	2163.9	2188.9	2203.9	2216.6	2216.5
20°	2134.1	2173.5	2214.2	2242.8	2272.1	2284.7	2286.7
22.5°	2173.8	2234.0	2286.4	2330.8	2369.2	2382.4	2387.4
25°	2256.2	2334.9	2415.7	2477.9	2522.5	2548.5	2552.3
27.5°	2355.6	2462.3	2547.2	2604.7	2641.7	2661.0	2665.2
30°	2425.8	2524.3	2600.6	2643.9	2661.0	2663.5	2654.0
32.5°	2457.4	2530.9	2561.4	2558.9	2525.2	2502.9	2494.3
35°	2418.8	2403.6	2329.2	2240.3	2172.3	2129.1	2117.6
37.5°	2201.2	2069.7	1932.9	1798.5	1726.9	1690.5	1628.0
40°	1986.7	1799.2	1656.9	1543.7	1463.0	1398.2	1382.9
42.5°	1744.7	1551.1	1408.8	1311.9	1247.4	1203.0	1183.7
45°	1402.0	1235.5	1117.9	1043.6	994.0	961.6	947.0
47.5°	1121.4	992.5	906.8	851.7	814.0	785.8	777.9
50°	967.3	864.3	791.9	745.5	716.9	695.3	686.4
52.5°	840.2	757.1	701.4	663.1	636.0	622.6	615.2
55°	693.3	621.6	581.6	551.0	535.7	525.0	519.8
57.5°	567.0	515.2	485.9	464.8	450.7	443.8	441.3
60°	496.4	455.7	429.0	412.5	402.9	394.0	391.5
62.5°	433.8	401.8	381.2	366.7	357.2	353.4	351.8
65°	349.5	328.6	313.3	304.4	296.8	295.5	294.9
67.5°	277.9	265.5	257.6	248.3	245.6	241.1	240.3
70°	237.7	229.4	219.9	216.7	213.5	209.1	209.7
72.5°	201.6	193.3	186.9	182.6	181.5	179.6	181.2
75°	147.4	144.9	142.4	139.2	137.9	137.9	137.3
77.5°	105.3	103.1	100.3	98.4	98.0	95.3	96.4
80°	76.2	73.1	71.8	72.5	70.5	69.9	69.9
82.5°	56.4	55.3	54.1	54.1	53.7	53.2	53.6
85°	31.1	30.5	30.5	29.8	29.8	29.3	29.3
87.5°	16.0	16.7	15.9	15.6	15.7	16.4	17.1
90°	23.8	25.1	26.3	27.1	27.9	28.7	29.5
92.5°	52.6	54.5	55.6	56.3	56.8	57.4	58.0
95°	100.4	102.3	103.5	104.1	104.7	105.2	105.7
97.5°	156.1	157.9	159.1	159.4	159.7	160.0	160.4
100°	195.5	198.0	199.5	200.0	200.6	201.1	201.6
102.5°	235.5	238.1	239.9	240.7	241.4	242.2	243.0
105°	298.8	300.4	301.7	302.5	303.3	304.1	304.9
107.5°	367.4	368.2	368.6	368.5	368.5	368.4	368.4
110°	415.6	416.5	416.7	416.5	416.1	415.9	415.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	463.5	463.8	463.8	463.3	462.8	462.4	461.9
115°	536.5	536.2	536.0	535.7	535.4	535.2	534.9
117.5°	610.8	611.0	610.6	609.4	608.4	607.3	606.2
120°	660.3	660.3	659.7	658.7	657.5	656.5	655.4
122.5°	708.8	708.6	708.1	707.2	706.3	705.4	704.6
125°	780.4	779.8	779.4	779.2	778.9	778.6	778.4
127.5°	852.1	851.7	851.3	850.8	850.3	849.7	849.1
130°	899.3	898.9	898.5	898.1	897.5	896.9	896.4
132.5°	944.5	944.2	943.7	943.0	942.2	941.4	940.6
135°	1014.4	1014.4	1013.9	1012.8	1011.7	1010.6	1009.5
137.5°	1082.6	1082.9	1082.4	1081.0	1079.6	1078.2	1076.8
140°	1125.5	1126.0	1125.6	1124.3	1122.9	1121.5	1120.1
142.5°	1167.1	1167.5	1166.9	1165.6	1164.2	1162.9	1161.5
145°	1227.1	1227.1	1226.7	1225.9	1225.1	1224.3	1223.4
147.5°	1283.7	1284.3	1283.8	1281.9	1280.0	1278.2	1276.4
150°	1318.2	1318.2	1317.8	1317.3	1316.8	1316.2	1315.6
152.5°	1351.6	1352.3	1352.1	1351.1	1350.1	1349.2	1348.2
155°	1398.9	1400.0	1399.9	1398.5	1397.1	1395.7	1394.4
157.5°	1439.5	1440.6	1440.2	1438.4	1436.6	1434.8	1433.0
160°	1464.0	1465.2	1465.0	1463.6	1462.2	1460.9	1459.5
162.5°	1487.4	1488.7	1488.5	1486.9	1485.3	1483.8	1482.1
165°	1518.2	1519.2	1519.0	1517.4	1515.7	1514.1	1512.4
167.5°	1541.6	1543.3	1543.3	1541.6	1539.9	1538.2	1536.5
170°	1555.4	1557.1	1557.0	1555.0	1553.1	1551.2	1549.3
172.5°	1565.3	1566.9	1566.9	1565.2	1563.5	1561.8	1560.2
175°	1576.4	1578.0	1577.8	1576.0	1574.0	1572.1	1570.2
177.5°	1581.0	1582.3	1582.3	1580.7	1579.2	1577.6	1576.1
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1

(END OF REPORT)