

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: P333717-840

Luminaire Tested: **S125RDIW-S1090D1560U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333717-840
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-S1090D1560U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 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: 9767.2 lumens
Efficiency: N/A
Efficacy: 127.5 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

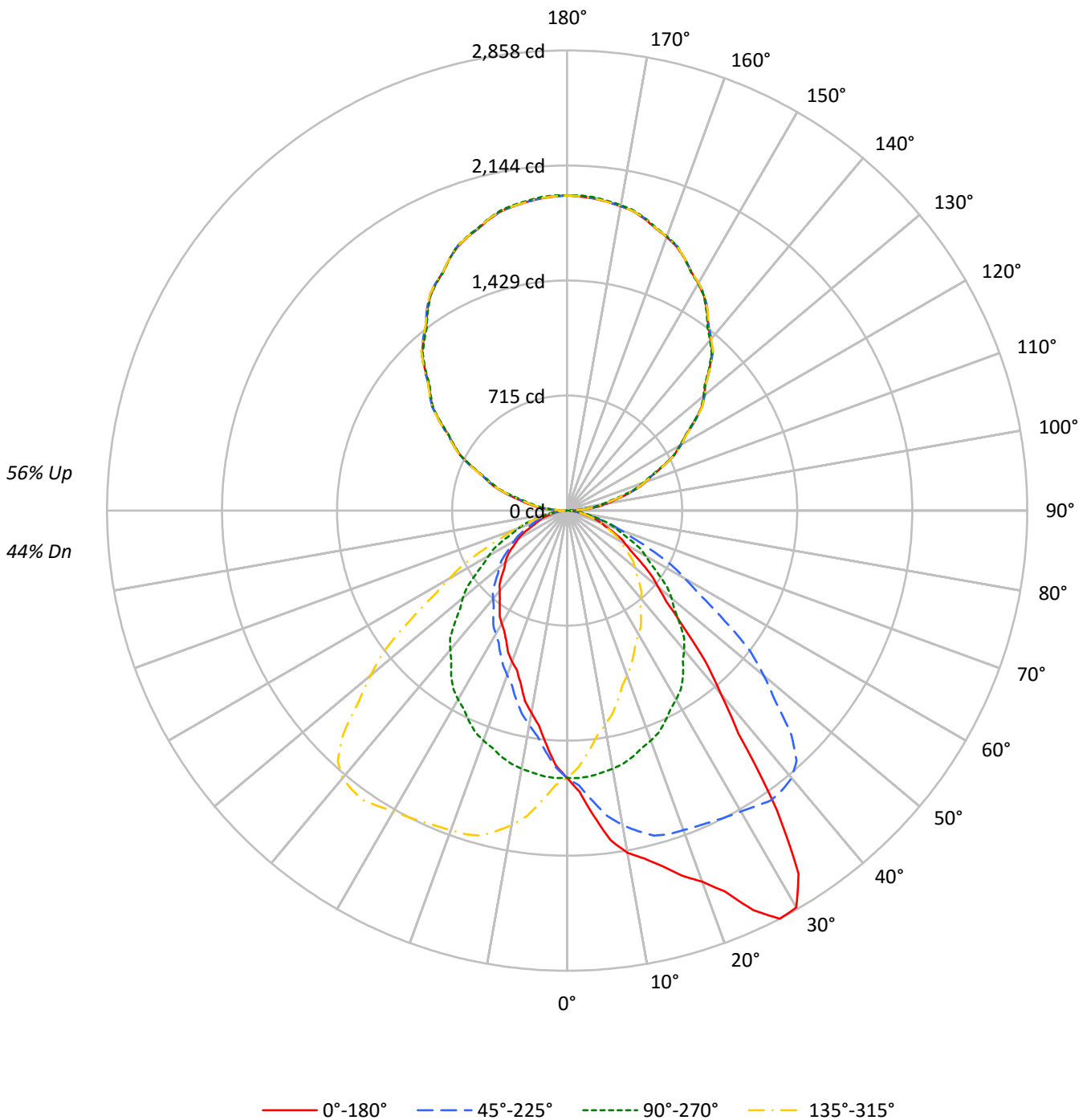
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	68	66	58	56	55	45	44	44	38
2	88	81	75	71	81	75	70	65	62	59	56	51	48	46	40	39	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	33	30	29	27	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	21	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10723	10723	10723	10723
5°	12337	10738	9483	10738
10°	14152	10683	8368	10683
15°	15285	10573	7438	10573
20°	16855	10446	6868	10446
25°	19506	10278	6372	10278
30°	21227	10100	6049	10100
35°	17906	9894	5750	9894
40°	12505	9522	5493	9522
45°	9276	9020	5242	9020
50°	7396	8499	5027	8499
55°	6277	7851	4835	7851
60°	5424	7272	4525	7272
65°	4834	6645	3895	6645
70°	4247	6086	3552	6086
75°	3673	5273	3334	5273
80°	2786	4437	2786	4437
85°	2319	3490	2623	3490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.6
10°-20°	466.6	4.8
20°-30°	739.8	7.6
30°-40°	892.2	9.1
40°-50°	796.7	8.2
50°-60°	611.0	6.3
60°-70°	397.1	4.1
70°-80°	193.0	2.0
80°-90°	50.4	0.5
90°-100°	131.1	1.3
100°-110°	387.1	4.0
110°-120°	655.6	6.7
120°-130°	862.9	8.8
130°-140°	966.8	9.9
140°-150°	947.6	9.7
150°-160°	795.9	8.1
160°-170°	529.1	5.4
170°-180°	185.2	1.9
0°-30°	1365.7	14.0
0°-40°	2257.9	23.1
0°-60°	3665.6	37.5
0°-90°	4306.1	44.1
90°-120°	1173.8	12.0
90°-150°	3951.1	40.5
90°-180°	5461.0	55.9
0°-180°	9767.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1903	1656	1463	1656	1903	190
15°	2286	1581	1112	1581	2286	655
25°	2737	1442	894	1442	2737	1257
35°	2271	1255	729	1255	2271	1372
45°	1016	988	574	988	1016	810
55°	558	697	429	697	558	506
65°	316	435	255	435	316	315
75°	147	211	134	211	147	157
85°	31	47	35	47	31	37
90°	37	2	37	2	37	23
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°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1746.6	1745.5	1747.7	1741.6	1742.2	1732.9	1732.9	1725.9	1716.6	1709.5	1706.2
5°	1903.0	1904.4	1901.7	1891.5	1884.6	1874.4	1862.8	1842.4	1825.3	1809.0	1796.0
7.5°	2064.2	2065.1	2056.1	2053.0	2035.8	2023.3	1997.5	1969.6	1945.0	1913.7	1889.7
10°	2158.0	2157.3	2147.7	2140.2	2125.3	2106.2	2080.9	2048.2	2017.5	1983.5	1950.8
12.5°	2212.5	2210.7	2207.7	2198.6	2184.6	2167.8	2146.4	2114.2	2076.4	2039.1	2000.9
15°	2286.1	2281.3	2272.5	2260.9	2241.1	2221.3	2197.5	2168.9	2132.7	2090.4	2055.1
17.5°	2377.1	2377.3	2363.7	2347.5	2320.7	2285.8	2249.0	2202.8	2153.7	2107.3	2069.5
20°	2452.4	2450.3	2436.7	2405.4	2374.7	2331.1	2288.9	2232.2	2172.2	2111.6	2064.6
22.5°	2560.4	2555.1	2540.8	2499.7	2452.2	2396.0	2331.4	2262.2	2189.7	2120.8	2059.1
25°	2737.3	2733.2	2705.2	2657.6	2590.8	2504.2	2419.6	2324.9	2220.7	2130.0	2055.1
27.5°	2858.3	2853.9	2833.2	2793.5	2731.9	2640.8	2526.4	2399.7	2269.6	2144.9	2036.8
30°	2846.4	2856.6	2853.9	2835.5	2789.1	2707.3	2601.7	2459.2	2304.5	2158.0	2029.1
32.5°	2675.1	2684.3	2708.3	2744.4	2747.1	2714.4	2635.4	2504.0	2343.8	2177.1	2023.2
35°	2271.1	2283.4	2329.8	2402.7	2498.1	2577.8	2594.1	2523.2	2379.4	2200.2	2014.2
37.5°	1746.0	1813.0	1852.1	1928.8	2073.1	2219.7	2360.8	2412.8	2351.5	2190.7	1999.5
40°	1483.2	1499.5	1569.0	1655.6	1777.0	1929.7	2130.7	2275.8	2280.7	2168.9	1976.6
42.5°	1269.4	1290.1	1337.9	1406.9	1510.9	1663.6	1871.2	2062.6	2151.4	2108.9	1946.6
45°	1015.6	1031.3	1066.0	1119.2	1198.9	1325.0	1503.6	1725.2	1901.0	1969.8	1866.2
47.5°	834.2	842.7	873.0	913.5	972.5	1064.4	1202.6	1394.9	1605.9	1753.7	1739.2
50°	736.1	745.7	768.8	799.5	849.3	927.0	1037.4	1197.6	1415.0	1595.6	1631.7
52.5°	659.7	667.7	682.2	711.1	752.2	811.9	901.1	1046.0	1241.6	1433.7	1517.2
55°	557.5	563.0	574.6	591.0	623.7	666.6	743.7	843.8	1002.0	1195.5	1318.2
57.5°	473.3	476.1	483.4	498.6	521.2	552.5	608.1	693.1	806.5	980.8	1116.2
60°	419.9	422.6	432.1	442.3	460.1	488.7	532.3	591.6	700.6	844.6	981.5
62.5°	377.3	379.0	383.0	393.2	408.8	430.9	465.2	513.6	600.4	726.7	856.1
65°	316.3	316.9	318.3	326.5	336.0	352.3	374.9	409.0	474.4	569.9	684.3
67.5°	257.6	258.6	263.4	266.2	276.2	284.8	298.0	324.1	370.1	434.4	523.5
70°	224.9	224.3	229.0	232.5	235.8	246.1	254.9	276.1	304.7	353.8	428.1
72.5°	194.4	192.6	194.7	195.9	200.4	207.3	216.2	229.1	251.3	285.1	341.9
75°	147.2	147.9	147.9	149.3	152.7	155.4	158.1	164.9	177.2	199.8	230.4
77.5°	103.3	102.2	105.1	105.5	107.6	110.6	112.9	115.6	120.7	129.9	145.7
80°	74.9	74.9	75.6	77.7	77.1	78.4	81.8	84.5	90.7	96.1	101.6
82.5°	57.6	57.0	57.7	58.1	58.0	59.3	60.5	61.1	63.4	66.1	69.9
85°	31.3	31.3	32.0	32.0	32.7	32.7	33.4	33.4	33.4	34.0	34.7
87.5°	19.3	18.6	17.8	17.6	18.0	18.8	17.9	17.0	16.7	16.4	16.4
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°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1706.2	1702.3	1695.3	1688.7	1680.5	1673.4	1668.6	1662.5	1655.0	1645.7	1638.0
5°	1781.7	1766.7	1747.0	1729.9	1708.1	1691.0	1673.3	1656.3	1639.2	1617.4	1598.3
7.5°	1865.4	1834.4	1804.3	1766.5	1732.1	1701.4	1671.9	1642.1	1613.0	1582.0	1552.2
10°	1916.6	1879.2	1837.6	1789.9	1746.3	1704.7	1666.5	1629.0	1589.5	1554.7	1517.2
12.5°	1964.7	1916.2	1868.7	1808.5	1756.1	1705.3	1656.7	1609.9	1567.7	1522.6	1482.4
15°	2008.0	1960.2	1907.1	1833.5	1760.6	1699.2	1641.9	1581.3	1528.8	1478.3	1433.4
17.5°	2024.8	1974.7	1913.0	1842.2	1762.5	1685.4	1611.5	1545.1	1483.3	1424.5	1373.9
20°	2018.2	1969.8	1906.4	1839.0	1753.7	1673.3	1593.6	1519.9	1451.2	1389.1	1335.2
22.5°	2002.4	1952.4	1891.2	1819.9	1739.0	1653.7	1568.5	1490.0	1417.9	1353.6	1294.9
25°	1978.7	1910.6	1847.9	1778.3	1701.3	1616.8	1528.8	1442.3	1365.2	1299.8	1235.8
27.5°	1954.0	1869.0	1789.2	1720.1	1638.7	1563.3	1478.5	1389.8	1308.8	1242.1	1176.4
30°	1931.7	1836.2	1748.3	1669.9	1592.9	1521.4	1440.9	1354.3	1271.2	1202.3	1135.6
32.5°	1903.8	1802.4	1705.8	1615.4	1541.1	1470.1	1397.2	1314.5	1233.6	1162.6	1094.7
35°	1869.0	1739.5	1634.5	1538.3	1455.9	1387.0	1321.6	1254.9	1173.8	1100.1	1034.0
37.5°	1823.1	1676.2	1554.7	1450.1	1363.0	1293.9	1242.2	1181.2	1107.2	1036.7	975.3
40°	1795.3	1630.4	1497.4	1393.9	1302.5	1229.6	1181.2	1129.4	1062.0	995.8	934.4
42.5°	1758.3	1588.4	1439.7	1331.7	1239.8	1169.6	1120.6	1075.4	1018.9	956.5	890.8
45°	1685.6	1507.0	1350.9	1235.1	1142.4	1073.5	1027.8	987.6	944.7	887.5	830.2
47.5°	1590.9	1422.1	1258.8	1132.3	1041.5	977.5	933.2	901.5	870.8	822.1	766.5
50°	1515.2	1352.3	1192.8	1070.2	973.3	912.6	871.1	845.9	817.9	773.7	727.3
52.5°	1425.7	1280.3	1124.1	998.7	907.4	850.5	810.5	785.4	762.3	726.2	682.0
55°	1284.9	1157.4	1014.2	900.4	816.6	759.3	721.1	697.3	683.7	653.0	618.2
57.5°	1122.2	1030.9	904.6	794.9	720.7	664.2	636.2	615.9	600.5	578.9	554.3
60°	1008.8	944.7	831.5	727.3	659.1	605.2	580.1	563.0	548.7	530.3	511.2
62.5°	893.7	847.1	748.7	659.1	596.4	551.3	527.7	512.3	495.8	483.4	464.8
65°	739.5	697.9	629.8	559.6	501.7	465.5	448.5	434.8	424.6	411.0	398.1
67.5°	575.3	558.4	511.3	462.9	421.3	389.2	374.5	365.0	352.6	344.5	335.6
70°	474.4	466.3	432.8	400.8	361.9	340.1	326.5	322.3	307.4	299.2	293.1
72.5°	385.0	381.1	361.9	339.7	312.4	293.3	280.6	276.1	266.5	259.9	256.0
75°	263.8	265.2	261.8	247.4	237.2	224.9	214.0	211.3	204.5	199.0	195.6
77.5°	166.8	173.8	174.1	173.4	169.4	161.8	157.3	155.3	148.6	146.5	145.7
80°	114.5	122.0	128.9	128.2	126.7	124.7	121.3	119.3	115.8	113.8	112.5
82.5°	76.3	83.3	89.0	92.7	92.4	90.4	88.1	87.2	86.4	84.9	84.6
85°	36.2	37.5	39.5	44.3	47.7	48.4	47.7	47.1	44.9	45.6	46.4
87.5°	16.5	16.0	16.1	15.6	14.4	16.7	17.8	17.8	17.2	16.7	16.1
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



TEST NUMBER: P333717-840

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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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1632.5	1625.0	1619.5	1608.6	1600.9	1597.7	1591.6	1590.0	1596.0	1591.6	1591.1
5°	1584.1	1564.3	1548.6	1532.9	1515.9	1505.0	1488.6	1485.9	1481.8	1475.6	1474.3
7.5°	1525.8	1500.1	1479.9	1454.0	1431.5	1413.4	1392.9	1383.2	1378.0	1370.0	1359.4
10°	1486.5	1455.9	1428.7	1402.7	1374.8	1352.3	1331.8	1316.2	1306.0	1296.4	1292.3
12.5°	1447.8	1416.6	1381.7	1350.4	1319.2	1293.9	1271.3	1261.1	1249.8	1238.6	1229.1
15°	1387.8	1346.2	1308.0	1271.8	1245.3	1218.0	1196.2	1181.2	1164.2	1159.4	1141.0
17.5°	1323.9	1283.1	1238.5	1200.4	1169.6	1139.6	1115.6	1098.6	1085.8	1068.2	1059.8
20°	1284.1	1235.8	1192.1	1157.4	1123.3	1087.8	1063.3	1048.9	1036.7	1022.4	1015.6
22.5°	1241.6	1194.3	1149.6	1108.8	1074.2	1039.4	1021.9	1007.0	993.1	979.9	970.9
25°	1179.1	1131.5	1084.4	1042.2	1006.0	980.8	960.4	943.3	935.8	922.9	913.3
27.5°	1117.4	1066.7	1017.9	975.7	947.5	922.5	905.7	892.2	878.7	867.4	859.1
30°	1077.6	1025.8	972.6	939.3	909.3	885.3	867.0	854.0	843.8	833.6	827.5
32.5°	1037.8	984.4	937.2	901.1	872.7	852.1	833.1	820.8	810.0	798.7	791.4
35°	974.0	919.5	881.3	845.9	817.9	798.8	785.9	768.2	759.3	751.1	743.7
37.5°	914.7	864.0	822.7	791.6	767.3	748.4	731.6	722.1	711.1	703.8	697.5
40°	871.1	824.8	787.3	754.6	736.8	715.7	700.0	687.7	679.5	670.0	663.2
42.5°	831.8	788.7	752.3	722.9	700.8	683.0	667.8	655.6	645.2	638.4	632.7
45°	776.4	733.4	697.9	670.7	650.3	633.2	617.5	611.4	597.7	589.6	586.8
47.5°	718.9	680.5	646.3	621.2	600.3	584.1	569.4	556.8	549.4	541.3	536.9
50°	680.2	643.4	611.4	586.8	566.4	548.7	535.0	526.8	516.6	509.2	503.7
52.5°	641.6	607.4	575.4	552.0	534.2	516.5	501.3	493.1	483.4	478.6	474.8
55°	586.2	550.1	522.8	499.6	481.2	464.8	450.5	442.3	436.3	431.4	430.1
57.5°	523.5	494.8	469.5	448.6	429.5	414.1	401.6	393.8	388.4	387.7	383.6
60°	482.6	456.7	433.5	411.0	394.7	380.3	369.4	360.5	355.1	354.5	353.0
62.5°	441.7	416.9	395.4	375.6	360.8	347.1	336.7	326.8	323.5	320.1	317.1
65°	381.0	358.5	340.8	325.1	309.4	297.8	287.6	281.6	274.0	269.9	262.5
67.5°	321.4	304.0	287.0	273.8	261.5	250.4	242.0	232.9	227.8	224.5	219.0
70°	282.2	268.5	251.6	237.2	227.6	218.8	212.0	201.8	198.3	195.6	192.9
72.5°	245.1	233.1	218.8	207.2	197.6	189.3	181.5	176.6	173.3	170.6	169.0
75°	192.9	181.3	169.1	160.9	154.0	147.2	143.1	139.8	138.4	137.6	134.9
77.5°	141.7	135.5	125.7	119.2	114.6	111.9	108.3	106.4	106.3	103.3	102.4
80°	108.4	104.9	96.7	94.0	90.7	88.0	85.8	82.5	79.1	77.7	75.6
82.5°	80.6	77.2	73.9	69.5	66.7	65.0	63.0	61.7	62.2	60.3	59.3
85°	42.9	39.5	38.2	37.5	36.2	37.5	36.8	36.2	35.4	34.7	35.4
87.5°	16.1	16.6	16.6	18.1	17.0	18.0	18.3	18.1	18.5	18.8	18.5
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°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1590.5	1584.6	1583.0	1585.1	1583.0	1584.6	1590.5	1591.1	1591.6	1596.0	1590.0
5°	1467.5	1460.7	1464.1	1462.7	1464.1	1460.7	1467.5	1474.3	1475.6	1481.8	1485.9
7.5°	1359.3	1350.8	1341.8	1344.6	1341.8	1350.8	1359.3	1359.4	1370.0	1378.0	1383.2
10°	1283.4	1276.7	1272.5	1276.0	1272.5	1276.7	1283.4	1292.3	1296.4	1306.0	1316.2
12.5°	1219.6	1215.6	1212.0	1210.5	1212.0	1215.6	1219.6	1229.1	1238.6	1249.8	1261.1
15°	1132.9	1124.7	1121.3	1112.4	1121.3	1124.7	1132.9	1141.0	1159.4	1164.2	1181.2
17.5°	1052.8	1050.1	1041.2	1037.4	1041.2	1050.1	1052.8	1059.8	1068.2	1085.8	1098.6
20°	1005.3	1002.6	993.8	999.3	993.8	1002.6	1005.3	1015.6	1022.4	1036.7	1048.9
22.5°	966.1	960.1	957.3	955.6	957.3	960.1	966.1	970.9	979.9	993.1	1007.0
25°	910.6	901.7	898.4	894.2	898.4	901.7	910.6	913.3	922.9	935.8	943.3
27.5°	855.3	850.5	846.0	845.0	846.0	850.5	855.3	859.1	867.4	878.7	892.2
30°	819.3	814.6	811.1	811.1	811.1	814.6	819.3	827.5	833.6	843.8	854.0
32.5°	787.1	783.5	780.0	779.5	780.0	783.5	787.1	791.4	798.7	810.0	820.8
35°	740.2	734.8	733.4	729.3	733.4	734.8	740.2	743.7	751.1	759.3	768.2
37.5°	691.6	687.0	686.9	686.5	686.9	687.0	691.6	697.5	703.8	711.1	722.1
40°	660.5	657.0	656.4	651.6	656.4	657.0	660.5	663.2	670.0	679.5	687.7
42.5°	627.2	625.4	623.1	621.1	623.1	625.4	627.2	632.7	638.4	645.2	655.6
45°	582.1	577.3	577.3	573.9	577.3	577.3	582.1	586.8	589.6	597.7	611.4
47.5°	535.4	531.8	532.2	528.7	532.2	531.8	535.4	536.9	541.3	549.4	556.8
50°	504.4	502.3	501.7	500.3	501.7	502.3	504.4	503.7	509.2	516.6	526.8
52.5°	473.3	472.3	474.9	471.9	474.9	472.3	473.3	474.8	478.6	483.4	493.1
55°	431.4	429.4	433.5	429.4	433.5	429.4	431.4	430.1	431.4	436.3	442.3
57.5°	383.3	381.4	385.1	383.0	385.1	381.4	383.3	383.6	387.7	388.4	393.8
60°	351.7	347.6	349.6	350.3	349.6	347.6	351.7	353.0	354.5	355.1	360.5
62.5°	314.1	311.6	313.2	310.0	313.2	311.6	314.1	317.1	320.1	323.5	326.8
65°	261.1	259.0	256.3	254.9	256.3	259.0	261.1	262.5	269.9	274.0	281.6
67.5°	219.3	214.4	214.3	215.4	214.3	214.4	219.3	219.0	224.5	227.8	232.9
70°	188.8	188.8	188.1	188.1	188.1	188.8	188.8	192.9	195.6	198.3	201.8
72.5°	167.5	167.0	165.7	165.2	165.7	167.0	167.5	169.0	170.6	173.3	176.6
75°	134.9	135.6	134.3	133.6	134.3	135.6	134.9	134.9	137.6	138.4	139.8
77.5°	99.7	96.7	98.3	96.7	98.3	96.7	99.7	102.4	103.3	106.3	106.4
80°	75.6	74.9	77.1	74.9	77.1	74.9	75.6	75.6	77.7	79.1	82.5
82.5°	59.9	59.2	60.1	58.6	60.1	59.2	59.9	59.3	60.3	62.2	61.7
85°	36.2	35.4	34.7	35.4	34.7	35.4	36.2	35.4	34.7	35.4	36.2
87.5°	19.3	18.9	19.1	19.3	19.1	18.9	19.3	18.5	18.8	18.5	18.1
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°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1591.6	1597.7	1600.9	1608.6	1619.5	1625.0	1632.5	1638.0	1645.7	1655.0	1662.5
5°	1488.6	1505.0	1515.9	1532.9	1548.6	1564.3	1584.1	1598.3	1617.4	1639.2	1656.3
7.5°	1392.9	1413.4	1431.5	1454.0	1479.9	1500.1	1525.8	1552.2	1582.0	1613.0	1642.1
10°	1331.8	1352.3	1374.8	1402.7	1428.7	1455.9	1486.5	1517.2	1554.7	1589.5	1629.0
12.5°	1271.3	1293.9	1319.2	1350.4	1381.7	1416.6	1447.8	1482.4	1522.6	1567.7	1609.9
15°	1196.2	1218.0	1245.3	1271.8	1308.0	1346.2	1387.8	1433.4	1478.3	1528.8	1581.3
17.5°	1115.6	1139.6	1169.6	1200.4	1238.5	1283.1	1323.9	1373.9	1424.5	1483.3	1545.1
20°	1063.3	1087.8	1123.3	1157.4	1192.1	1235.8	1284.1	1335.2	1389.1	1451.2	1519.9
22.5°	1021.9	1039.4	1074.2	1108.8	1149.6	1194.3	1241.6	1294.9	1353.6	1417.9	1490.0
25°	960.4	980.8	1006.0	1042.2	1084.4	1131.5	1179.1	1235.8	1299.8	1365.2	1442.3
27.5°	905.7	922.5	947.5	975.7	1017.9	1066.7	1117.4	1176.4	1242.1	1308.8	1389.8
30°	867.0	885.3	909.3	939.3	972.6	1025.8	1077.6	1135.6	1202.3	1271.2	1354.3
32.5°	833.1	852.1	872.7	901.1	937.2	984.4	1037.8	1094.7	1162.6	1233.6	1314.5
35°	785.9	798.8	817.9	845.9	881.3	919.5	974.0	1034.0	1100.1	1173.8	1254.9
37.5°	731.6	748.4	767.3	791.6	822.7	864.0	914.7	975.3	1036.7	1107.2	1181.2
40°	700.0	715.7	736.8	754.6	787.3	824.8	871.1	934.4	995.8	1062.0	1129.4
42.5°	667.8	683.0	700.8	722.9	752.3	788.7	831.8	890.8	956.5	1018.9	1075.4
45°	617.5	633.2	650.3	670.7	697.9	733.4	776.4	830.2	887.5	944.7	987.6
47.5°	569.4	584.1	600.3	621.2	646.3	680.5	718.9	766.5	822.1	870.8	901.5
50°	535.0	548.7	566.4	586.8	611.4	643.4	680.2	727.3	773.7	817.9	845.9
52.5°	501.3	516.5	534.2	552.0	575.4	607.4	641.6	682.0	726.2	762.3	785.4
55°	450.5	464.8	481.2	499.6	522.8	550.1	586.2	618.2	653.0	683.7	697.3
57.5°	401.6	414.1	429.5	448.6	469.5	494.8	523.5	554.3	578.9	600.5	615.9
60°	369.4	380.3	394.7	411.0	433.5	456.7	482.6	511.2	530.3	548.7	563.0
62.5°	336.7	347.1	360.8	375.6	395.4	416.9	441.7	464.8	483.4	495.8	512.3
65°	287.6	297.8	309.4	325.1	340.8	358.5	381.0	398.1	411.0	424.6	434.8
67.5°	242.0	250.4	261.5	273.8	287.0	304.0	321.4	335.6	344.5	352.6	365.0
70°	212.0	218.8	227.6	237.2	251.6	268.5	282.2	293.1	299.2	307.4	322.3
72.5°	181.5	189.3	197.6	207.2	218.8	233.1	245.1	256.0	259.9	266.5	276.1
75°	143.1	147.2	154.0	160.9	169.1	181.3	192.9	195.6	199.0	204.5	211.3
77.5°	108.3	111.9	114.6	119.2	125.7	135.5	141.7	145.7	146.5	148.6	155.3
80°	85.8	88.0	90.7	94.0	96.7	104.9	108.4	112.5	113.8	115.8	119.3
82.5°	63.0	65.0	66.7	69.5	73.9	77.2	80.6	84.6	84.9	86.4	87.2
85°	36.8	37.5	36.2	37.5	38.2	39.5	42.9	46.4	45.6	44.9	47.1
87.5°	18.3	18.0	17.0	18.1	16.6	16.6	16.1	16.1	16.7	17.2	17.8
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°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1668.6	1673.4	1680.5	1688.7	1695.3	1702.3	1706.2	1706.2	1709.5	1716.6	1725.9
5°	1673.3	1691.0	1708.1	1729.9	1747.0	1766.7	1781.7	1796.0	1809.0	1825.3	1842.4
7.5°	1671.9	1701.4	1732.1	1766.5	1804.3	1834.4	1865.4	1889.7	1913.7	1945.0	1969.6
10°	1666.5	1704.7	1746.3	1789.9	1837.6	1879.2	1916.6	1950.8	1983.5	2017.5	2048.2
12.5°	1656.7	1705.3	1756.1	1808.5	1868.7	1916.2	1964.7	2000.9	2039.1	2076.4	2114.2
15°	1641.9	1699.2	1760.6	1833.5	1907.1	1960.2	2008.0	2055.1	2090.4	2132.7	2168.9
17.5°	1611.5	1685.4	1762.5	1842.2	1913.0	1974.7	2024.8	2069.5	2107.3	2153.7	2202.8
20°	1593.6	1673.3	1753.7	1839.0	1906.4	1969.8	2018.2	2064.6	2111.6	2172.2	2232.2
22.5°	1568.5	1653.7	1739.0	1819.9	1891.2	1952.4	2002.4	2059.1	2120.8	2189.7	2262.2
25°	1528.8	1616.8	1701.3	1778.3	1847.9	1910.6	1978.7	2055.1	2130.0	2220.7	2324.9
27.5°	1478.5	1563.3	1638.7	1720.1	1789.2	1869.0	1954.0	2036.8	2144.9	2269.6	2399.7
30°	1440.9	1521.4	1592.9	1669.9	1748.3	1836.2	1931.7	2029.1	2158.0	2304.5	2459.2
32.5°	1397.2	1470.1	1541.1	1615.4	1705.8	1802.4	1903.8	2023.2	2177.1	2343.8	2504.0
35°	1321.6	1387.0	1455.9	1538.3	1634.5	1739.5	1869.0	2014.2	2200.2	2379.4	2523.2
37.5°	1242.2	1293.9	1363.0	1450.1	1554.7	1676.2	1823.1	1999.5	2190.7	2351.5	2412.8
40°	1181.2	1229.6	1302.5	1393.9	1497.4	1630.4	1795.3	1976.6	2168.9	2280.7	2275.8
42.5°	1120.6	1169.6	1239.8	1331.7	1439.7	1588.4	1758.3	1946.6	2108.9	2151.4	2062.6
45°	1027.8	1073.5	1142.4	1235.1	1350.9	1507.0	1685.6	1866.2	1969.8	1901.0	1725.2
47.5°	933.2	977.5	1041.5	1132.3	1258.8	1422.1	1590.9	1739.2	1753.7	1605.9	1394.9
50°	871.1	912.6	973.3	1070.2	1192.8	1352.3	1515.2	1631.7	1595.6	1415.0	1197.6
52.5°	810.5	850.5	907.4	998.7	1124.1	1280.3	1425.7	1517.2	1433.7	1241.6	1046.0
55°	721.1	759.3	816.6	900.4	1014.2	1157.4	1284.9	1318.2	1195.5	1002.0	843.8
57.5°	636.2	664.2	720.7	794.9	904.6	1030.9	1122.2	1116.2	980.8	806.5	693.1
60°	580.1	605.2	659.1	727.3	831.5	944.7	1008.8	981.5	844.6	700.6	591.6
62.5°	527.7	551.3	596.4	659.1	748.7	847.1	893.7	856.1	726.7	600.4	513.6
65°	448.5	465.5	501.7	559.6	629.8	697.9	739.5	684.3	569.9	474.4	409.0
67.5°	374.5	389.2	421.3	462.9	511.3	558.4	575.3	523.5	434.4	370.1	324.1
70°	326.5	340.1	361.9	400.8	432.8	466.3	474.4	428.1	353.8	304.7	276.1
72.5°	280.6	293.3	312.4	339.7	361.9	381.1	385.0	341.9	285.1	251.3	229.1
75°	214.0	224.9	237.2	247.4	261.8	265.2	263.8	230.4	199.8	177.2	164.9
77.5°	157.3	161.8	169.4	173.4	174.1	173.8	166.8	145.7	129.9	120.7	115.6
80°	121.3	124.7	126.7	128.2	128.9	122.0	114.5	101.6	96.1	90.7	84.5
82.5°	88.1	90.4	92.4	92.7	89.0	83.3	76.3	69.9	66.1	63.4	61.1
85°	47.7	48.4	47.7	44.3	39.5	37.5	36.2	34.7	34.0	33.4	33.4
87.5°	17.8	16.7	14.4	15.6	16.1	16.0	16.5	16.4	16.4	16.7	17.0
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°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1732.9	1732.9	1742.2	1741.6	1747.7	1745.5	1746.6
5°	1862.8	1874.4	1884.6	1891.5	1901.7	1904.4	1903.0
7.5°	1997.5	2023.3	2035.8	2053.0	2056.1	2065.1	2064.2
10°	2080.9	2106.2	2125.3	2140.2	2147.7	2157.3	2158.0
12.5°	2146.4	2167.8	2184.6	2198.6	2207.7	2210.7	2212.5
15°	2197.5	2221.3	2241.1	2260.9	2272.5	2281.3	2286.1
17.5°	2249.0	2285.8	2320.7	2347.5	2363.7	2377.3	2377.1
20°	2288.9	2331.1	2374.7	2405.4	2436.7	2450.3	2452.4
22.5°	2331.4	2396.0	2452.2	2499.7	2540.8	2555.1	2560.4
25°	2419.6	2504.2	2590.8	2657.6	2705.2	2733.2	2737.3
27.5°	2526.4	2640.8	2731.9	2793.5	2833.2	2853.9	2858.3
30°	2601.7	2707.3	2789.1	2835.5	2853.9	2856.6	2846.4
32.5°	2635.4	2714.4	2747.1	2744.4	2708.3	2684.3	2675.1
35°	2594.1	2577.8	2498.1	2402.7	2329.8	2283.4	2271.1
37.5°	2360.8	2219.7	2073.1	1928.8	1852.1	1813.0	1746.0
40°	2130.7	1929.7	1777.0	1655.6	1569.0	1499.5	1483.2
42.5°	1871.2	1663.6	1510.9	1406.9	1337.9	1290.1	1269.4
45°	1503.6	1325.0	1198.9	1119.2	1066.0	1031.3	1015.6
47.5°	1202.6	1064.4	972.5	913.5	873.0	842.7	834.2
50°	1037.4	927.0	849.3	799.5	768.8	745.7	736.1
52.5°	901.1	811.9	752.2	711.1	682.2	667.7	659.7
55°	743.7	666.6	623.7	591.0	574.6	563.0	557.5
57.5°	608.1	552.5	521.2	498.6	483.4	476.1	473.3
60°	532.3	488.7	460.1	442.3	432.1	422.6	419.9
62.5°	465.2	430.9	408.8	393.2	383.0	379.0	377.3
65°	374.9	352.3	336.0	326.5	318.3	316.9	316.3
67.5°	298.0	284.8	276.2	266.2	263.4	258.6	257.6
70°	254.9	246.1	235.8	232.5	229.0	224.3	224.9
72.5°	216.2	207.3	200.4	195.9	194.7	192.6	194.4
75°	158.1	155.4	152.7	149.3	147.9	147.9	147.2
77.5°	112.9	110.6	107.6	105.5	105.1	102.2	103.3
80°	81.8	78.4	77.1	77.7	75.6	74.9	74.9
82.5°	60.5	59.3	58.0	58.1	57.7	57.0	57.6
85°	33.4	32.7	32.7	32.0	32.0	31.3	31.3
87.5°	17.9	18.8	18.0	17.6	17.8	18.6	19.3
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)