

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: P333092-840

Luminaire Tested: **S124RDIW-S1020D1560U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333092-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D1560U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 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: 9848.4 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

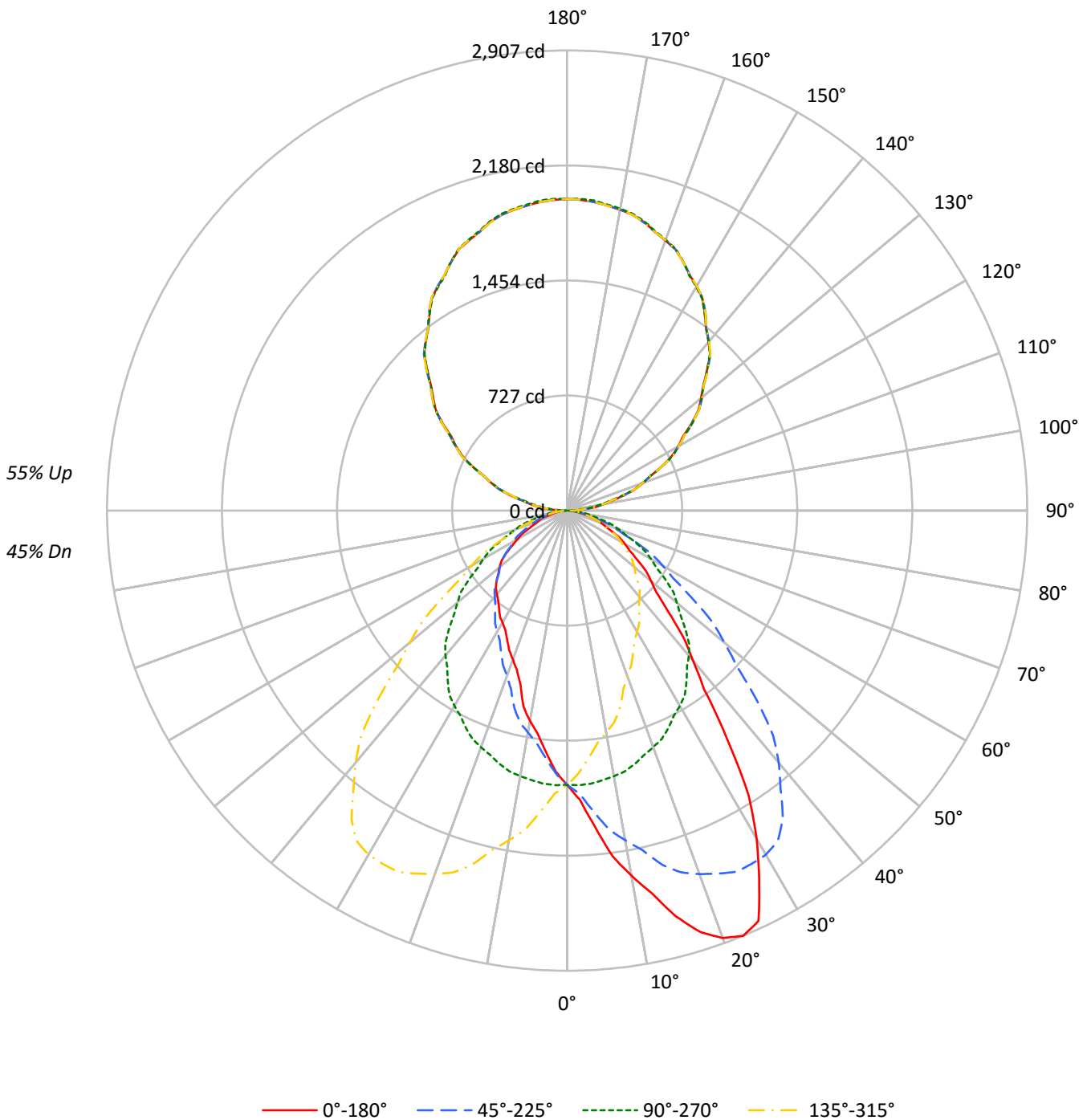
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	45	45	45	45	45	45		
	1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38	38	38	38	38	38		
	2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33	33	33	33	33	33		
	3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	36	34	32	28	28	28	28	28	28		
	4	74	64	56	50	68	59	52	47	50	45	41	41	37	34	33	30	28	24	24	24	24	24	24		
	5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21	21	21	21	21	21		
	6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19	19	19	19	19	19		
	7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17	17	17	17	17	17		
	8	54	42	35	29	50	39	32	28	33	28	24	28	24	21	23	20	18	15	15	15	15	15	15		
	9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14	14	14	14	14	14		
	10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13	13	13	13	13	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13988	13988	13988	13988
5°	16226	14030	12400	14030
10°	19194	13969	11068	13969
15°	22172	13840	9510	13840
20°	24686	13662	8600	13662
25°	25483	13488	7985	13488
30°	22309	13276	7614	13276
35°	17366	12962	7389	12962
40°	13022	12603	7268	12603
45°	10282	12028	7205	12028
50°	8681	11362	6997	11362
55°	7567	10632	6622	10632
60°	6807	9875	5861	9875
65°	6002	9054	5041	9054
70°	5403	8207	4548	8207
75°	4529	7274	3877	7274
80°	3831	6197	3636	6197
85°	3233	4844	3233	4844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.7
10°-20°	506.4	5.1
20°-30°	792.1	8.0
30°-40°	880.6	8.9
40°-50°	781.3	7.9
50°-60°	608.8	6.2
60°-70°	398.6	4.0
70°-80°	196.0	2.0
80°-90°	54.2	0.6
90°-100°	129.9	1.3
100°-110°	384.7	3.9
110°-120°	652.9	6.6
120°-130°	861.0	8.7
130°-140°	966.9	9.8
140°-150°	950.1	9.6
150°-160°	799.1	8.1
160°-170°	531.7	5.4
170°-180°	186.2	1.9
0°-30°	1466.4	14.9
0°-40°	2347.0	23.8
0°-60°	3737.0	37.9
0°-90°	4385.9	44.5
90°-120°	1167.5	11.9
90°-150°	3945.5	40.1
90°-180°	5463.0	55.5
0°-180°	9848.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	2002	1731	1530	1731	2002	203
15°	2653	1656	1138	1656	2653	754
25°	2861	1514	896	1514	2861	1269
35°	1762	1315	750	1315	1762	1105
45°	901	1054	631	1054	901	713
55°	538	755	470	755	538	489
65°	314	474	264	474	314	316
75°	145	233	124	233	145	160
85°	35	52	35	52	35	41
90°	46	4	46	4	46	25
95°	120	91	120	91	120	125
105°	372	355	372	355	372	392
115°	658	664	658	664	658	650
125°	959	967	959	967	959	856
135°	1249	1247	1249	1247	1249	964
145°	1517	1515	1517	1515	1517	949
155°	1734	1736	1734	1736	1734	798
165°	1885	1890	1885	1890	1885	531
175°	1957	1966	1957	1966	1957	186
180°	1969	1969	1969	1969	1969	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1827.7	1832.7	1827.7	1827.1	1821.6	1819.9	1817.7	1810.4	1797.0	1789.2	1790.8
5°	2002.3	2019.6	2009.9	2008.5	1993.2	1977.8	1968.0	1945.7	1922.0	1905.9	1892.6
7.5°	2204.1	2214.1	2208.1	2198.3	2173.4	2159.3	2136.7	2107.2	2064.7	2032.1	2002.4
10°	2341.5	2349.9	2347.1	2329.0	2310.8	2273.8	2252.8	2211.7	2157.9	2115.4	2075.5
12.5°	2476.7	2485.6	2461.0	2461.8	2427.5	2398.3	2365.1	2313.3	2251.2	2196.3	2146.5
15°	2652.9	2641.7	2641.7	2627.8	2589.3	2548.9	2514.7	2460.2	2382.0	2316.3	2247.3
17.5°	2790.9	2794.7	2789.0	2756.0	2725.9	2684.0	2621.3	2557.8	2485.2	2397.1	2326.4
20°	2873.5	2873.5	2867.2	2844.9	2805.8	2761.1	2693.4	2624.2	2532.1	2443.5	2363.9
22.5°	2907.0	2909.2	2901.8	2883.4	2848.2	2804.6	2746.9	2676.7	2581.8	2481.9	2383.4
25°	2860.9	2874.2	2875.6	2870.6	2860.2	2833.7	2784.1	2712.2	2627.1	2518.8	2412.7
27.5°	2626.7	2643.4	2658.1	2682.2	2714.3	2731.1	2733.3	2696.7	2622.4	2518.3	2411.5
30°	2393.2	2407.1	2452.6	2511.8	2557.9	2599.8	2636.2	2645.8	2604.0	2510.4	2398.0
32.5°	2134.0	2153.0	2198.4	2262.2	2338.9	2409.9	2491.4	2533.0	2531.9	2475.8	2371.8
35°	1762.1	1776.0	1818.0	1884.9	1977.1	2082.5	2211.7	2312.2	2380.6	2375.7	2312.2
37.5°	1421.1	1436.8	1479.1	1534.8	1624.2	1754.6	1879.7	2018.1	2144.7	2215.7	2194.4
40°	1235.7	1236.4	1277.6	1334.8	1418.6	1532.4	1668.5	1822.1	1963.1	2078.3	2100.6
42.5°	1089.3	1089.4	1116.7	1178.4	1238.8	1345.8	1475.8	1628.3	1793.3	1926.4	1985.6
45°	900.6	906.9	929.2	966.2	1013.7	1104.4	1208.4	1350.2	1535.2	1692.9	1791.4
47.5°	762.7	771.8	786.1	816.3	854.0	914.5	1000.6	1127.9	1278.4	1452.0	1592.1
50°	691.2	692.6	710.6	727.4	760.2	808.4	883.8	990.0	1128.1	1295.1	1450.7
52.5°	629.8	629.4	640.4	661.6	688.2	725.8	786.7	883.2	1005.8	1155.4	1316.1
55°	537.6	541.1	549.5	566.1	586.4	613.0	661.2	733.8	830.1	957.9	1103.8
57.5°	467.5	469.3	475.8	482.9	501.5	520.8	556.9	607.3	688.6	793.2	929.2
60°	421.6	422.3	424.4	434.9	449.6	467.8	492.2	534.7	603.2	698.8	806.4
62.5°	377.0	378.2	381.4	389.1	400.4	413.0	438.6	472.8	529.5	611.2	708.0
65°	314.2	314.9	319.7	322.6	331.6	342.7	361.6	384.7	423.7	492.2	565.5
67.5°	262.5	262.5	262.8	266.5	272.9	280.2	291.5	309.9	339.4	381.4	446.1
70°	228.9	228.9	230.4	232.5	236.0	242.3	248.5	262.5	284.2	318.3	367.9
72.5°	197.7	198.2	199.7	200.1	201.9	207.0	211.7	220.7	236.7	262.5	302.6
75°	145.2	147.3	150.8	153.6	157.0	156.4	161.3	166.8	171.8	187.1	210.2
77.5°	108.1	106.9	107.3	109.8	110.2	110.9	114.3	118.7	122.3	129.6	137.8
80°	82.4	82.4	84.4	85.1	84.4	85.1	88.7	90.8	92.2	94.9	102.6
82.5°	62.3	63.4	62.7	63.4	63.8	64.5	67.5	67.9	69.3	70.4	73.6
85°	34.9	35.6	36.3	34.9	34.9	34.9	36.3	37.0	38.4	37.7	39.1
87.5°	21.4	20.7	21.1	21.0	21.4	20.6	20.8	21.5	20.0	20.1	19.6
90°	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6	35.5	33.5	30.8
92.5°	67.6	67.2	66.8	66.3	65.9	65.1	63.9	62.7	61.5	60.3	58.4
95°	120.3	120.3	120.3	120.3	120.3	119.8	118.8	117.8	116.7	115.7	113.4
97.5°	188.5	188.5	188.5	188.5	188.5	187.9	186.7	185.5	184.2	183.0	180.3
100°	236.0	236.0	236.0	236.0	236.0	235.7	235.0	234.3	233.7	233.0	229.9
102.5°	289.6	289.3	289.1	288.8	288.5	287.9	287.0	286.0	285.1	284.2	281.3
105°	371.5	370.5	369.5	368.5	367.5	366.5	365.5	364.5	363.5	362.4	361.0
107.5°	451.3	451.4	451.5	451.5	451.6	451.2	450.2	449.3	448.3	447.4	447.2
110°	508.6	507.6	506.5	505.5	504.5	504.3	505.0	505.7	506.3	507.1	507.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	567.0	566.8	566.6	566.4	566.2	566.2	566.3	566.4	566.6	566.7	567.3
115°	657.8	658.1	658.5	658.8	659.1	659.5	659.8	660.1	660.6	660.9	661.6
117.5°	744.3	745.0	745.7	746.3	747.0	747.9	749.1	750.2	751.3	752.6	753.0
120°	810.1	809.4	808.7	808.1	807.4	807.9	809.6	811.2	812.9	814.7	815.7
122.5°	864.9	866.2	867.4	868.6	869.8	871.0	872.1	873.2	874.4	875.6	876.1
125°	959.3	960.0	960.7	961.3	962.0	962.7	963.4	964.0	964.7	965.4	965.7
127.5°	1046.7	1047.2	1047.8	1048.3	1048.8	1049.5	1050.2	1050.9	1051.5	1052.2	1052.8
130°	1104.0	1105.3	1106.7	1108.0	1109.3	1110.3	1111.1	1111.8	1112.5	1113.1	1113.1
132.5°	1164.9	1165.4	1166.0	1166.5	1167.0	1167.6	1168.3	1169.0	1169.7	1170.3	1170.6
135°	1248.6	1249.6	1250.6	1251.6	1252.6	1253.5	1254.3	1254.9	1255.6	1256.3	1256.3
137.5°	1336.7	1336.5	1336.3	1336.1	1335.8	1336.2	1337.1	1338.0	1338.8	1339.7	1339.2
140°	1390.3	1390.6	1390.9	1391.3	1391.6	1391.9	1392.3	1392.6	1392.9	1393.3	1393.3
142.5°	1443.8	1443.9	1444.0	1444.0	1444.1	1444.2	1444.2	1444.3	1444.4	1444.4	1444.7
145°	1516.6	1517.6	1518.6	1519.6	1520.7	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4
147.5°	1590.3	1590.6	1591.0	1591.3	1591.6	1592.0	1592.3	1592.6	1592.8	1593.1	1593.4
150°	1635.4	1635.8	1636.1	1636.4	1636.8	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9
152.5°	1676.8	1677.7	1678.6	1679.4	1680.3	1680.3	1679.5	1678.7	1677.9	1677.1	1676.9
155°	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8	1738.4	1737.1	1735.8	1734.3	1734.7
157.5°	1785.8	1787.0	1788.2	1789.3	1790.4	1790.5	1789.5	1788.5	1787.5	1786.5	1786.6
160°	1815.0	1816.7	1818.5	1820.2	1821.8	1822.2	1821.2	1820.2	1819.2	1818.2	1818.5
162.5°	1845.5	1847.2	1849.0	1850.6	1852.3	1852.2	1850.4	1848.6	1846.7	1844.9	1845.2
165°	1885.1	1886.4	1887.8	1889.2	1890.6	1890.2	1888.1	1886.1	1884.1	1882.1	1882.8
167.5°	1913.4	1915.5	1917.6	1919.8	1921.9	1921.9	1919.9	1917.8	1915.8	1913.8	1913.7
170°	1929.2	1931.7	1934.0	1936.4	1938.7	1938.9	1936.9	1934.9	1932.8	1930.8	1930.5
172.5°	1942.7	1945.0	1947.4	1949.7	1952.2	1952.2	1949.8	1947.6	1945.3	1943.0	1942.9
175°	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2	1963.8	1961.5	1959.0	1956.7	1957.0
177.5°	1964.0	1966.2	1968.3	1970.4	1972.7	1972.8	1970.9	1969.0	1967.1	1965.2	1965.2
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1785.2	1777.5	1773.5	1764.5	1753.9	1748.4	1743.3	1736.1	1726.6	1716.6	1709.3
5°	1875.8	1859.1	1838.2	1813.0	1790.7	1769.1	1750.2	1731.3	1709.7	1687.4	1665.1
7.5°	1968.8	1935.9	1900.3	1859.1	1819.1	1782.6	1749.1	1717.0	1680.6	1648.1	1618.5
10°	2033.7	1988.9	1939.3	1887.0	1834.6	1789.3	1744.6	1704.1	1659.4	1619.6	1586.1
12.5°	2086.2	2033.7	1974.0	1908.8	1845.8	1791.0	1739.6	1686.8	1636.0	1592.9	1548.1
15°	2173.2	2101.3	2021.0	1942.9	1861.2	1786.5	1717.4	1656.0	1598.0	1537.3	1494.7
17.5°	2233.1	2147.9	2050.2	1956.3	1859.8	1771.7	1691.9	1618.8	1552.0	1490.0	1439.3
20°	2268.9	2174.6	2066.5	1959.6	1851.4	1757.2	1671.3	1590.3	1521.3	1454.2	1401.8
22.5°	2289.0	2184.7	2066.5	1954.6	1842.5	1740.4	1646.2	1561.9	1486.6	1419.6	1361.6
25°	2295.4	2183.7	2063.0	1934.5	1811.6	1703.4	1605.7	1514.2	1430.5	1363.4	1302.0
27.5°	2286.5	2155.0	2031.2	1899.5	1772.7	1658.6	1556.0	1460.0	1376.0	1304.1	1241.1
30°	2273.1	2132.0	1999.4	1862.6	1734.1	1624.6	1516.3	1424.2	1336.9	1262.2	1198.7
32.5°	2244.0	2104.2	1961.5	1821.3	1691.1	1578.2	1475.5	1382.8	1297.3	1220.9	1153.5
35°	2186.6	2044.8	1889.9	1746.1	1618.2	1501.0	1404.6	1315.2	1233.6	1152.0	1080.7
37.5°	2110.7	1965.9	1811.8	1654.3	1526.4	1415.6	1327.3	1243.3	1163.7	1089.0	1010.2
40°	2039.2	1907.2	1748.1	1591.7	1460.5	1353.6	1272.0	1195.9	1115.6	1041.6	962.7
42.5°	1952.7	1840.3	1679.4	1522.5	1392.9	1290.0	1213.9	1139.4	1066.4	994.7	912.4
45°	1808.2	1722.9	1572.2	1421.4	1290.8	1188.9	1119.1	1053.5	989.3	920.8	843.3
47.5°	1642.5	1584.9	1454.7	1300.3	1179.5	1087.8	1020.4	966.7	912.4	844.0	776.1
50°	1527.5	1490.5	1364.8	1223.9	1108.6	1024.1	955.0	904.7	859.4	793.8	733.1
52.5°	1404.6	1384.9	1278.8	1144.0	1032.7	949.9	890.8	845.6	799.6	745.2	688.3
55°	1217.5	1228.0	1137.9	1021.4	916.7	846.9	793.0	755.4	716.3	670.2	626.2
57.5°	1026.2	1064.5	1004.0	901.7	803.5	739.0	698.5	666.8	634.0	595.8	558.3
60°	911.7	943.8	909.7	819.6	733.8	673.7	636.0	611.6	578.8	543.8	515.2
62.5°	800.0	834.4	814.2	741.4	661.7	610.1	576.8	554.0	529.6	499.2	469.4
65°	659.7	682.1	672.3	622.1	565.5	521.5	490.8	474.0	451.7	429.4	402.8
67.5°	505.3	548.5	542.7	516.0	467.2	432.8	412.7	397.9	377.6	360.9	343.0
70°	415.4	455.1	454.4	432.8	406.3	374.2	360.2	347.7	329.5	313.5	298.8
72.5°	340.0	376.5	381.8	365.3	347.1	322.9	309.4	300.7	283.2	272.2	260.2
75°	238.0	264.6	271.6	271.6	263.2	250.6	238.7	233.2	220.7	210.9	203.9
77.5°	156.1	172.9	183.8	186.2	187.5	183.3	173.6	169.7	160.0	156.5	149.9
80°	110.3	121.5	134.0	138.3	141.7	140.4	136.1	133.3	124.3	120.8	118.0
82.5°	76.2	82.4	92.7	101.9	101.0	104.6	101.0	98.8	91.9	90.6	87.9
85°	39.8	40.5	41.9	48.2	51.7	53.0	53.7	52.3	50.3	50.3	45.3
87.5°	19.0	17.9	18.5	17.9	17.7	19.2	20.1	19.9	19.0	18.1	17.1
90°	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5	8.3	12.0	15.8
92.5°	56.6	54.6	52.7	49.7	45.3	41.1	36.9	32.6	36.9	41.1	45.3
95°	111.0	108.7	106.2	103.5	100.5	97.5	94.4	91.4	94.4	97.5	100.5
97.5°	177.4	174.7	172.0	169.4	166.9	164.4	162.0	159.6	162.0	164.4	166.9
100°	226.9	223.9	220.8	218.6	217.2	215.9	214.5	213.2	214.5	215.9	217.2
102.5°	278.6	275.8	273.1	271.4	270.8	270.3	269.7	269.2	269.7	270.3	270.8
105°	359.7	358.3	357.0	356.2	355.8	355.5	355.2	354.8	355.2	355.5	355.8
107.5°	447.0	446.8	446.6	446.3	445.9	445.5	445.0	444.6	445.0	445.5	445.9
110°	507.8	508.1	508.5	508.3	507.6	506.9	506.2	505.5	506.2	506.9	507.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	567.9	568.6	569.2	569.5	569.3	569.2	569.1	568.9	569.1	569.2	569.3
115°	662.2	662.9	663.6	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
117.5°	753.5	754.0	754.5	754.6	754.3	754.0	753.7	753.5	753.7	754.0	754.3
120°	816.7	817.7	818.7	818.5	817.2	815.9	814.5	813.1	814.5	815.9	817.2
122.5°	876.5	877.0	877.5	877.4	876.9	876.4	875.8	875.3	875.8	876.4	876.9
125°	966.0	966.4	966.7	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9
127.5°	1053.3	1053.8	1054.4	1054.1	1053.1	1052.1	1051.1	1050.1	1051.1	1052.1	1053.1
130°	1113.1	1113.1	1113.1	1112.6	1111.6	1110.5	1109.5	1108.5	1109.5	1110.5	1111.6
132.5°	1170.9	1171.1	1171.4	1171.2	1170.4	1169.7	1169.0	1168.2	1169.0	1169.7	1170.4
135°	1256.3	1256.3	1256.3	1255.3	1253.2	1251.1	1249.1	1247.1	1249.1	1251.1	1253.2
137.5°	1338.6	1338.1	1337.6	1336.8	1335.8	1334.8	1333.9	1333.0	1333.9	1334.8	1335.8
140°	1393.3	1393.3	1393.3	1392.9	1392.3	1391.6	1390.9	1390.3	1390.9	1391.6	1392.3
142.5°	1445.0	1445.2	1445.5	1445.3	1444.6	1444.0	1443.3	1442.6	1443.3	1444.0	1444.6
145°	1522.1	1521.7	1521.4	1520.6	1519.1	1517.8	1516.4	1515.1	1516.4	1517.8	1519.1
147.5°	1593.6	1593.9	1594.2	1593.5	1591.9	1590.2	1588.6	1587.0	1588.6	1590.2	1591.9
150°	1636.9	1636.9	1636.9	1636.3	1634.9	1633.6	1632.1	1630.8	1632.1	1633.6	1634.9
152.5°	1676.6	1676.3	1676.1	1675.5	1674.7	1673.9	1673.0	1672.2	1673.0	1673.9	1674.7
155°	1735.0	1735.4	1735.8	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9
157.5°	1786.6	1786.7	1786.8	1787.1	1787.7	1788.3	1788.9	1789.5	1788.9	1788.3	1787.7
160°	1818.8	1819.2	1819.5	1819.8	1820.2	1820.5	1820.8	1821.2	1820.8	1820.5	1820.2
162.5°	1845.6	1845.9	1846.2	1846.8	1847.8	1848.7	1849.6	1850.4	1849.6	1848.7	1847.8
165°	1883.4	1884.1	1884.8	1885.6	1886.6	1887.6	1888.6	1889.7	1888.6	1887.6	1886.6
167.5°	1913.6	1913.6	1913.5	1914.2	1915.6	1917.0	1918.4	1919.9	1918.4	1917.0	1915.6
170°	1930.2	1929.8	1929.4	1930.2	1931.8	1933.5	1935.2	1936.9	1935.2	1933.5	1931.8
172.5°	1942.9	1942.8	1942.7	1943.4	1944.8	1946.2	1947.6	1949.0	1947.6	1946.2	1944.8
175°	1957.3	1957.7	1958.0	1959.0	1960.8	1962.5	1964.1	1965.8	1964.1	1962.5	1960.8
177.5°	1965.2	1965.2	1965.2	1965.9	1967.2	1968.6	1969.9	1971.3	1969.9	1968.6	1967.2
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1701.4	1695.9	1688.6	1680.2	1670.2	1661.2	1657.4	1660.7	1662.3	1657.9	1657.4
5°	1649.7	1632.2	1618.2	1597.3	1580.5	1566.6	1556.8	1552.7	1554.0	1542.9	1540.0
7.5°	1591.4	1570.7	1547.9	1523.0	1499.9	1479.4	1468.5	1462.7	1450.9	1445.8	1437.3
10°	1554.0	1526.1	1503.8	1474.4	1447.9	1423.5	1411.6	1401.8	1390.0	1384.4	1372.5
12.5°	1515.5	1483.1	1458.5	1428.1	1401.0	1371.5	1360.2	1342.1	1323.5	1311.8	1296.6
15°	1461.2	1422.1	1392.1	1355.7	1323.6	1290.1	1260.1	1226.6	1214.1	1187.5	1172.2
17.5°	1397.7	1358.0	1320.8	1272.1	1222.5	1180.9	1148.9	1116.8	1097.6	1080.7	1072.9
20°	1355.7	1319.5	1267.8	1211.2	1156.1	1110.0	1084.2	1063.3	1042.3	1030.5	1022.1
22.5°	1316.1	1269.7	1209.7	1148.7	1093.6	1057.5	1035.6	1014.1	997.0	985.7	974.6
25°	1249.6	1188.9	1125.4	1055.6	1017.8	986.4	962.7	945.2	934.8	920.1	914.5
27.5°	1181.3	1107.8	1037.7	990.8	951.5	922.8	902.1	889.0	875.8	866.4	859.1
30°	1128.8	1054.2	991.4	946.6	906.9	883.1	866.4	851.0	840.5	832.8	827.3
32.5°	1076.9	1002.2	949.5	901.4	870.0	846.9	829.0	817.5	809.3	799.3	796.0
35°	1001.8	935.4	889.4	846.2	814.1	793.0	779.1	767.2	760.2	757.5	755.4
37.5°	929.6	875.4	825.8	790.3	761.6	745.2	728.7	722.9	718.1	713.1	715.3
40°	883.8	832.8	788.9	751.1	728.1	710.0	700.2	693.3	689.0	689.0	689.0
42.5°	844.1	794.4	751.4	717.7	694.6	679.2	668.4	662.5	661.2	660.6	663.9
45°	782.6	736.5	693.3	665.3	645.8	630.4	624.1	619.2	619.2	622.1	622.7
47.5°	721.5	678.4	643.7	612.4	594.5	584.9	579.5	576.9	577.2	580.0	583.2
50°	684.2	641.6	607.3	579.5	562.7	553.6	548.8	547.3	548.8	548.8	553.6
52.5°	643.4	605.3	571.6	548.2	529.2	520.7	518.0	516.0	516.8	519.2	521.2
55°	583.6	549.5	517.4	494.9	481.0	475.4	469.2	469.8	468.5	469.8	469.8
57.5°	523.7	493.0	463.1	445.5	433.1	425.1	418.2	420.1	418.1	417.8	416.7
60°	485.2	451.7	428.0	411.9	397.9	390.9	384.7	386.1	384.0	382.5	379.8
62.5°	443.3	415.4	392.7	377.3	366.1	358.0	351.7	350.3	345.5	340.7	334.6
65°	382.5	359.5	339.3	324.7	314.2	307.9	303.0	298.8	288.3	277.1	271.6
67.5°	323.6	306.9	288.0	275.6	267.1	258.8	249.5	242.4	232.6	226.5	223.0
70°	285.5	269.4	253.4	241.6	232.5	224.8	214.3	209.4	202.5	199.7	196.2
72.5°	249.2	234.3	219.3	208.6	198.9	193.0	184.7	179.9	176.7	175.6	172.2
75°	194.1	182.2	171.1	161.3	153.6	149.4	145.9	142.4	141.0	134.7	131.3
77.5°	141.6	133.8	126.7	119.8	114.3	111.6	104.8	100.8	98.5	95.5	94.8
80°	110.3	104.7	97.8	93.5	85.8	83.1	80.3	79.6	78.9	78.2	77.5
82.5°	82.9	77.4	70.4	67.9	65.7	64.1	62.4	61.7	61.0	61.4	61.3
85°	41.9	39.1	39.1	38.4	37.7	37.0	36.3	36.3	35.6	36.3	35.6
87.5°	17.9	18.0	18.5	17.9	19.0	19.6	19.4	19.8	20.8	20.1	20.3
90°	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6	39.6	41.6	43.0
92.5°	49.7	52.7	54.6	56.6	58.4	60.3	61.5	62.7	63.9	65.1	65.9
95°	103.5	106.2	108.7	111.0	113.4	115.7	116.7	117.8	118.8	119.8	120.3
97.5°	169.4	172.0	174.7	177.4	180.3	183.0	184.2	185.5	186.7	187.9	188.5
100°	218.6	220.8	223.9	226.9	229.9	233.0	233.7	234.3	235.0	235.7	236.0
102.5°	271.4	273.1	275.8	278.6	281.3	284.2	285.1	286.0	287.0	287.9	288.5
105°	356.2	357.0	358.3	359.7	361.0	362.4	363.5	364.5	365.5	366.5	367.5
107.5°	446.3	446.6	446.8	447.0	447.2	447.4	448.3	449.3	450.2	451.2	451.6
110°	508.3	508.5	508.1	507.8	507.4	507.1	506.3	505.7	505.0	504.3	504.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	569.5	569.2	568.6	567.9	567.3	566.7	566.6	566.4	566.3	566.2	566.2
115°	663.9	663.6	662.9	662.2	661.6	660.9	660.6	660.1	659.8	659.5	659.1
117.5°	754.6	754.5	754.0	753.5	753.0	752.6	751.3	750.2	749.1	747.9	747.0
120°	818.5	818.7	817.7	816.7	815.7	814.7	812.9	811.2	809.6	807.9	807.4
122.5°	877.4	877.5	877.0	876.5	876.1	875.6	874.4	873.2	872.1	871.0	869.8
125°	966.9	966.7	966.4	966.0	965.7	965.4	964.7	964.0	963.4	962.7	962.0
127.5°	1054.1	1054.4	1053.8	1053.3	1052.8	1052.2	1051.5	1050.9	1050.2	1049.5	1048.8
130°	1112.6	1113.1	1113.1	1113.1	1113.1	1113.1	1112.5	1111.8	1111.1	1110.3	1109.3
132.5°	1171.2	1171.4	1171.1	1170.9	1170.6	1170.3	1169.7	1169.0	1168.3	1167.6	1167.0
135°	1255.3	1256.3	1256.3	1256.3	1256.3	1256.3	1255.6	1254.9	1254.3	1253.5	1252.6
137.5°	1336.8	1337.6	1338.1	1338.6	1339.2	1339.7	1338.8	1338.0	1337.1	1336.2	1335.8
140°	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.6	1392.3	1391.9	1391.6
142.5°	1445.3	1445.5	1445.2	1445.0	1444.7	1444.4	1444.4	1444.3	1444.2	1444.2	1444.1
145°	1520.6	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4	1522.1	1521.7	1521.4	1520.7
147.5°	1593.5	1594.2	1593.9	1593.6	1593.4	1593.1	1592.8	1592.6	1592.3	1592.0	1591.6
150°	1636.3	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.8
152.5°	1675.5	1676.1	1676.3	1676.6	1676.9	1677.1	1677.9	1678.7	1679.5	1680.3	1680.3
155°	1735.9	1735.8	1735.4	1735.0	1734.7	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8
157.5°	1787.1	1786.8	1786.7	1786.6	1786.6	1786.5	1787.5	1788.5	1789.5	1790.5	1790.4
160°	1819.8	1819.5	1819.2	1818.8	1818.5	1818.2	1819.2	1820.2	1821.2	1822.2	1821.8
162.5°	1846.8	1846.2	1845.9	1845.6	1845.2	1844.9	1846.7	1848.6	1850.4	1852.2	1852.3
165°	1885.6	1884.8	1884.1	1883.4	1882.8	1882.1	1884.1	1886.1	1888.1	1890.2	1890.6
167.5°	1914.2	1913.5	1913.6	1913.6	1913.7	1913.8	1915.8	1917.8	1919.9	1921.9	1921.9
170°	1930.2	1929.4	1929.8	1930.2	1930.5	1930.8	1932.8	1934.9	1936.9	1938.9	1938.7
172.5°	1943.4	1942.7	1942.8	1942.9	1942.9	1943.0	1945.3	1947.6	1949.8	1952.2	1952.2
175°	1959.0	1958.0	1957.7	1957.3	1957.0	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2
177.5°	1965.9	1965.2	1965.2	1965.2	1965.2	1965.2	1967.1	1969.0	1970.9	1972.8	1972.7
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1654.0	1655.1	1651.2	1650.1	1651.2	1655.1	1654.0	1657.4	1657.9	1662.3	1660.7
5°	1534.5	1533.1	1529.5	1530.2	1529.5	1533.1	1534.5	1540.0	1542.9	1554.0	1552.7
7.5°	1432.3	1426.8	1428.4	1422.8	1428.4	1426.8	1432.3	1437.3	1445.8	1450.9	1462.7
10°	1369.7	1362.0	1355.7	1350.2	1355.7	1362.0	1369.7	1372.5	1384.4	1390.0	1401.8
12.5°	1284.2	1277.7	1269.2	1270.9	1269.2	1277.7	1284.2	1296.6	1311.8	1323.5	1342.1
15°	1163.1	1152.6	1135.9	1137.9	1135.9	1152.6	1163.1	1172.2	1187.5	1214.1	1226.6
17.5°	1060.5	1060.6	1052.9	1054.7	1052.9	1060.6	1060.5	1072.9	1080.7	1097.6	1116.8
20°	1007.4	1002.5	1003.2	1001.1	1003.2	1002.5	1007.4	1022.1	1030.5	1042.3	1063.3
22.5°	970.6	964.5	959.7	955.3	959.7	964.5	970.6	974.6	985.7	997.0	1014.1
25°	908.3	904.0	897.8	896.4	897.8	904.0	908.3	914.5	920.1	934.8	945.2
27.5°	853.5	852.7	850.2	847.0	850.2	852.7	853.5	859.1	866.4	875.8	889.0
30°	821.7	820.3	818.9	816.8	818.9	820.3	821.7	827.3	832.8	840.5	851.0
32.5°	793.2	792.3	790.9	791.1	790.9	792.3	793.2	796.0	799.3	809.3	817.5
35°	752.6	751.8	750.5	749.8	750.5	751.8	752.6	755.4	757.5	760.2	767.2
37.5°	714.6	716.4	715.6	715.4	715.6	716.4	714.6	715.3	713.1	718.1	722.9
40°	688.3	689.0	690.4	689.7	690.4	689.0	688.3	689.0	689.0	689.0	693.3
42.5°	666.6	666.7	668.6	666.3	668.6	666.7	666.6	663.9	660.6	661.2	662.5
45°	627.6	631.8	631.1	631.1	631.1	631.8	627.6	622.7	622.1	619.2	619.2
47.5°	585.0	588.7	589.7	589.5	589.7	588.7	585.0	583.2	580.0	577.2	576.9
50°	557.1	555.7	557.8	557.1	557.8	555.7	557.1	553.6	548.8	548.8	547.3
52.5°	523.0	523.3	523.2	522.5	523.2	523.3	523.0	521.2	519.2	516.8	516.0
55°	470.5	471.2	469.8	470.5	469.8	471.2	470.5	469.8	469.8	468.5	469.8
57.5°	413.5	410.2	411.6	409.9	411.6	410.2	413.5	416.7	417.8	418.1	420.1
60°	372.8	367.2	365.8	363.0	365.8	367.2	372.8	379.8	382.5	384.0	386.1
62.5°	327.0	323.1	318.3	320.5	318.3	323.1	327.0	334.6	340.7	345.5	350.3
65°	266.0	263.2	261.1	263.9	261.1	263.2	266.0	271.6	277.1	288.3	298.8
67.5°	220.2	218.6	218.6	217.2	218.6	218.6	220.2	223.0	226.5	232.6	242.4
70°	196.2	194.1	194.1	192.7	194.1	194.1	196.2	196.2	199.7	202.5	209.4
72.5°	171.6	169.5	170.1	169.3	170.1	169.5	171.6	172.2	175.6	176.7	179.9
75°	127.0	123.6	123.6	124.3	123.6	123.6	127.0	131.3	134.7	141.0	142.4
77.5°	94.8	94.1	95.1	93.8	95.1	94.1	94.8	94.8	95.5	98.5	100.8
80°	77.5	76.7	76.1	78.2	76.1	76.7	77.5	77.5	78.2	78.9	79.6
82.5°	60.2	60.1	59.9	62.5	59.9	60.1	60.2	61.3	61.4	61.0	61.7
85°	36.3	34.9	36.3	34.9	36.3	34.9	36.3	35.6	36.3	35.6	36.3
87.5°	21.6	21.1	20.7	21.4	20.7	21.1	21.6	20.3	20.1	20.8	19.8
90°	43.6	44.3	45.0	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6
92.5°	66.3	66.8	67.2	67.6	67.2	66.8	66.3	65.9	65.1	63.9	62.7
95°	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	119.8	118.8	117.8
97.5°	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	187.9	186.7	185.5
100°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	235.7	235.0	234.3
102.5°	288.8	289.1	289.3	289.6	289.3	289.1	288.8	288.5	287.9	287.0	286.0
105°	368.5	369.5	370.5	371.5	370.5	369.5	368.5	367.5	366.5	365.5	364.5
107.5°	451.5	451.5	451.4	451.3	451.4	451.5	451.5	451.6	451.2	450.2	449.3
110°	505.5	506.5	507.6	508.6	507.6	506.5	505.5	504.5	504.3	505.0	505.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	566.4	566.6	566.8	567.0	566.8	566.6	566.4	566.2	566.2	566.3	566.4
115°	658.8	658.5	658.1	657.8	658.1	658.5	658.8	659.1	659.5	659.8	660.1
117.5°	746.3	745.7	745.0	744.3	745.0	745.7	746.3	747.0	747.9	749.1	750.2
120°	808.1	808.7	809.4	810.1	809.4	808.7	808.1	807.4	807.9	809.6	811.2
122.5°	868.6	867.4	866.2	864.9	866.2	867.4	868.6	869.8	871.0	872.1	873.2
125°	961.3	960.7	960.0	959.3	960.0	960.7	961.3	962.0	962.7	963.4	964.0
127.5°	1048.3	1047.8	1047.2	1046.7	1047.2	1047.8	1048.3	1048.8	1049.5	1050.2	1050.9
130°	1108.0	1106.7	1105.3	1104.0	1105.3	1106.7	1108.0	1109.3	1110.3	1111.1	1111.8
132.5°	1166.5	1166.0	1165.4	1164.9	1165.4	1166.0	1166.5	1167.0	1167.6	1168.3	1169.0
135°	1251.6	1250.6	1249.6	1248.6	1249.6	1250.6	1251.6	1252.6	1253.5	1254.3	1254.9
137.5°	1336.1	1336.3	1336.5	1336.7	1336.5	1336.3	1336.1	1335.8	1336.2	1337.1	1338.0
140°	1391.3	1390.9	1390.6	1390.3	1390.6	1390.9	1391.3	1391.6	1391.9	1392.3	1392.6
142.5°	1444.0	1444.0	1443.9	1443.8	1443.9	1444.0	1444.0	1444.1	1444.2	1444.2	1444.3
145°	1519.6	1518.6	1517.6	1516.6	1517.6	1518.6	1519.6	1520.7	1521.4	1521.7	1522.1
147.5°	1591.3	1591.0	1590.6	1590.3	1590.6	1591.0	1591.3	1591.6	1592.0	1592.3	1592.6
150°	1636.4	1636.1	1635.8	1635.4	1635.8	1636.1	1636.4	1636.8	1636.9	1636.9	1636.9
152.5°	1679.4	1678.6	1677.7	1676.8	1677.7	1678.6	1679.4	1680.3	1680.3	1679.5	1678.7
155°	1738.4	1737.1	1735.8	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8	1738.4	1737.1
157.5°	1789.3	1788.2	1787.0	1785.8	1787.0	1788.2	1789.3	1790.4	1790.5	1789.5	1788.5
160°	1820.2	1818.5	1816.7	1815.0	1816.7	1818.5	1820.2	1821.8	1822.2	1821.2	1820.2
162.5°	1850.6	1849.0	1847.2	1845.5	1847.2	1849.0	1850.6	1852.3	1852.2	1850.4	1848.6
165°	1889.2	1887.8	1886.4	1885.1	1886.4	1887.8	1889.2	1890.6	1890.2	1888.1	1886.1
167.5°	1919.8	1917.6	1915.5	1913.4	1915.5	1917.6	1919.8	1921.9	1921.9	1919.9	1917.8
170°	1936.4	1934.0	1931.7	1929.2	1931.7	1934.0	1936.4	1938.7	1938.9	1936.9	1934.9
172.5°	1949.7	1947.4	1945.0	1942.7	1945.0	1947.4	1949.7	1952.2	1952.2	1949.8	1947.6
175°	1963.8	1961.5	1959.0	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2	1963.8	1961.5
177.5°	1970.4	1968.3	1966.2	1964.0	1966.2	1968.3	1970.4	1972.7	1972.8	1970.9	1969.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1657.4	1661.2	1670.2	1680.2	1688.6	1695.9	1701.4	1709.3	1716.6	1726.6	1736.1
5°	1556.8	1566.6	1580.5	1597.3	1618.2	1632.2	1649.7	1665.1	1687.4	1709.7	1731.3
7.5°	1468.5	1479.4	1499.9	1523.0	1547.9	1570.7	1591.4	1618.5	1648.1	1680.6	1717.0
10°	1411.6	1423.5	1447.9	1474.4	1503.8	1526.1	1554.0	1586.1	1619.6	1659.4	1704.1
12.5°	1360.2	1371.5	1401.0	1428.1	1458.5	1483.1	1515.5	1548.1	1592.9	1636.0	1686.8
15°	1260.1	1290.1	1323.6	1355.7	1392.1	1422.1	1461.2	1494.7	1537.3	1598.0	1656.0
17.5°	1148.9	1180.9	1222.5	1272.1	1320.8	1358.0	1397.7	1439.3	1490.0	1552.0	1618.8
20°	1084.2	1110.0	1156.1	1211.2	1267.8	1319.5	1355.7	1401.8	1454.2	1521.3	1590.3
22.5°	1035.6	1057.5	1093.6	1148.7	1209.7	1269.7	1316.1	1361.6	1419.6	1486.6	1561.9
25°	962.7	986.4	1017.8	1055.6	1125.4	1188.9	1249.6	1302.0	1363.4	1430.5	1514.2
27.5°	902.1	922.8	951.5	990.8	1037.7	1107.8	1181.3	1241.1	1304.1	1376.0	1460.0
30°	866.4	883.1	906.9	946.6	991.4	1054.2	1128.8	1198.7	1262.2	1336.9	1424.2
32.5°	829.0	846.9	870.0	901.4	949.5	1002.2	1076.9	1153.5	1220.9	1297.3	1382.8
35°	779.1	793.0	814.1	846.2	889.4	935.4	1001.8	1080.7	1152.0	1233.6	1315.2
37.5°	728.7	745.2	761.6	790.3	825.8	875.4	929.6	1010.2	1089.0	1163.7	1243.3
40°	700.2	710.0	728.1	751.1	788.9	832.8	883.8	962.7	1041.6	1115.6	1195.9
42.5°	668.4	679.2	694.6	717.7	751.4	794.4	844.1	912.4	994.7	1066.4	1139.4
45°	624.1	630.4	645.8	665.3	693.3	736.5	782.6	843.3	920.8	989.3	1053.5
47.5°	579.5	584.9	594.5	612.4	643.7	678.4	721.5	776.1	844.0	912.4	966.7
50°	548.8	553.6	562.7	579.5	607.3	641.6	684.2	733.1	793.8	859.4	904.7
52.5°	518.0	520.7	529.2	548.2	571.6	605.3	643.4	688.3	745.2	799.6	845.6
55°	469.2	475.4	481.0	494.9	517.4	549.5	583.6	626.2	670.2	716.3	755.4
57.5°	418.2	425.1	433.1	445.5	463.1	493.0	523.7	558.3	595.8	634.0	666.8
60°	384.7	390.9	397.9	411.9	428.0	451.7	485.2	515.2	543.8	578.8	611.6
62.5°	351.7	358.0	366.1	377.3	392.7	415.4	443.3	469.4	499.2	529.6	554.0
65°	303.0	307.9	314.2	324.7	339.3	359.5	382.5	402.8	429.4	451.7	474.0
67.5°	249.5	258.8	267.1	275.6	288.0	306.9	323.6	343.0	360.9	377.6	397.9
70°	214.3	224.8	232.5	241.6	253.4	269.4	285.5	298.8	313.5	329.5	347.7
72.5°	184.7	193.0	198.9	208.6	219.3	234.3	249.2	260.2	272.2	283.2	300.7
75°	145.9	149.4	153.6	161.3	171.1	182.2	194.1	203.9	210.9	220.7	233.2
77.5°	104.8	111.6	114.3	119.8	126.7	133.8	141.6	149.9	156.5	160.0	169.7
80°	80.3	83.1	85.8	93.5	97.8	104.7	110.3	118.0	120.8	124.3	133.3
82.5°	62.4	64.1	65.7	67.9	70.4	77.4	82.9	87.9	90.6	91.9	98.8
85°	36.3	37.0	37.7	38.4	39.1	39.1	41.9	45.3	50.3	50.3	52.3
87.5°	19.4	19.6	19.0	17.9	18.5	18.0	17.9	17.1	18.1	19.0	19.9
90°	35.5	33.5	30.8	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5
92.5°	61.5	60.3	58.4	56.6	54.6	52.7	49.7	45.3	41.1	36.9	32.6
95°	116.7	115.7	113.4	111.0	108.7	106.2	103.5	100.5	97.5	94.4	91.4
97.5°	184.2	183.0	180.3	177.4	174.7	172.0	169.4	166.9	164.4	162.0	159.6
100°	233.7	233.0	229.9	226.9	223.9	220.8	218.6	217.2	215.9	214.5	213.2
102.5°	285.1	284.2	281.3	278.6	275.8	273.1	271.4	270.8	270.3	269.7	269.2
105°	363.5	362.4	361.0	359.7	358.3	357.0	356.2	355.8	355.5	355.2	354.8
107.5°	448.3	447.4	447.2	447.0	446.8	446.6	446.3	445.9	445.5	445.0	444.6
110°	506.3	507.1	507.4	507.8	508.1	508.5	508.3	507.6	506.9	506.2	505.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	566.6	566.7	567.3	567.9	568.6	569.2	569.5	569.3	569.2	569.1	568.9
115°	660.6	660.9	661.6	662.2	662.9	663.6	663.9	663.9	663.9	663.9	663.9
117.5°	751.3	752.6	753.0	753.5	754.0	754.5	754.6	754.3	754.0	753.7	753.5
120°	812.9	814.7	815.7	816.7	817.7	818.7	818.5	817.2	815.9	814.5	813.1
122.5°	874.4	875.6	876.1	876.5	877.0	877.5	877.4	876.9	876.4	875.8	875.3
125°	964.7	965.4	965.7	966.0	966.4	966.7	966.9	966.9	966.9	966.9	966.9
127.5°	1051.5	1052.2	1052.8	1053.3	1053.8	1054.4	1054.1	1053.1	1052.1	1051.1	1050.1
130°	1112.5	1113.1	1113.1	1113.1	1113.1	1113.1	1112.6	1111.6	1110.5	1109.5	1108.5
132.5°	1169.7	1170.3	1170.6	1170.9	1171.1	1171.4	1171.2	1170.4	1169.7	1169.0	1168.2
135°	1255.6	1256.3	1256.3	1256.3	1256.3	1256.3	1255.3	1253.2	1251.1	1249.1	1247.1
137.5°	1338.8	1339.7	1339.2	1338.6	1338.1	1337.6	1336.8	1335.8	1334.8	1333.9	1333.0
140°	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.3	1391.6	1390.9	1390.3
142.5°	1444.4	1444.4	1444.7	1445.0	1445.2	1445.5	1445.3	1444.6	1444.0	1443.3	1442.6
145°	1522.4	1522.7	1522.4	1522.1	1521.7	1521.4	1520.6	1519.1	1517.8	1516.4	1515.1
147.5°	1592.8	1593.1	1593.4	1593.6	1593.9	1594.2	1593.5	1591.9	1590.2	1588.6	1587.0
150°	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.3	1634.9	1633.6	1632.1	1630.8
152.5°	1677.9	1677.1	1676.9	1676.6	1676.3	1676.1	1675.5	1674.7	1673.9	1673.0	1672.2
155°	1735.8	1734.3	1734.7	1735.0	1735.4	1735.8	1735.9	1735.9	1735.9	1735.9	1735.9
157.5°	1787.5	1786.5	1786.6	1786.6	1786.7	1786.8	1787.1	1787.7	1788.3	1788.9	1789.5
160°	1819.2	1818.2	1818.5	1818.8	1819.2	1819.5	1819.8	1820.2	1820.5	1820.8	1821.2
162.5°	1846.7	1844.9	1845.2	1845.6	1845.9	1846.2	1846.8	1847.8	1848.7	1849.6	1850.4
165°	1884.1	1882.1	1882.8	1883.4	1884.1	1884.8	1885.6	1886.6	1887.6	1888.6	1889.7
167.5°	1915.8	1913.8	1913.7	1913.6	1913.6	1913.5	1914.2	1915.6	1917.0	1918.4	1919.9
170°	1932.8	1930.8	1930.5	1930.2	1929.8	1929.4	1930.2	1931.8	1933.5	1935.2	1936.9
172.5°	1945.3	1943.0	1942.9	1942.9	1942.8	1942.7	1943.4	1944.8	1946.2	1947.6	1949.0
175°	1959.0	1956.7	1957.0	1957.3	1957.7	1958.0	1959.0	1960.8	1962.5	1964.1	1965.8
177.5°	1967.1	1965.2	1965.2	1965.2	1965.2	1965.2	1965.9	1967.2	1968.6	1969.9	1971.3
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1743.3	1748.4	1753.9	1764.5	1773.5	1777.5	1785.2	1790.8	1789.2	1797.0	1810.4
5°	1750.2	1769.1	1790.7	1813.0	1838.2	1859.1	1875.8	1892.6	1905.9	1922.0	1945.7
7.5°	1749.1	1782.6	1819.1	1859.1	1900.3	1935.9	1968.8	2002.4	2032.1	2064.7	2107.2
10°	1744.6	1789.3	1834.6	1887.0	1939.3	1988.9	2033.7	2075.5	2115.4	2157.9	2211.7
12.5°	1739.6	1791.0	1845.8	1908.8	1974.0	2033.7	2086.2	2146.5	2196.3	2251.2	2313.3
15°	1717.4	1786.5	1861.2	1942.9	2021.0	2101.3	2173.2	2247.3	2316.3	2382.0	2460.2
17.5°	1691.9	1771.7	1859.8	1956.3	2050.2	2147.9	2233.1	2326.4	2397.1	2485.2	2557.8
20°	1671.3	1757.2	1851.4	1959.6	2066.5	2174.6	2268.9	2363.9	2443.5	2532.1	2624.2
22.5°	1646.2	1740.4	1842.5	1954.6	2066.5	2184.7	2289.0	2383.4	2481.9	2581.8	2676.7
25°	1605.7	1703.4	1811.6	1934.5	2063.0	2183.7	2295.4	2412.7	2518.8	2627.1	2712.2
27.5°	1556.0	1658.6	1772.7	1899.5	2031.2	2155.0	2286.5	2411.5	2518.3	2622.4	2696.7
30°	1516.3	1624.6	1734.1	1862.6	1999.4	2132.0	2273.1	2398.0	2510.4	2604.0	2645.8
32.5°	1475.5	1578.2	1691.1	1821.3	1961.5	2104.2	2244.0	2371.8	2475.8	2531.9	2533.0
35°	1404.6	1501.0	1618.2	1746.1	1889.9	2044.8	2186.6	2312.2	2375.7	2380.6	2312.2
37.5°	1327.3	1415.6	1526.4	1654.3	1811.8	1965.9	2110.7	2194.4	2215.7	2144.7	2018.1
40°	1272.0	1353.6	1460.5	1591.7	1748.1	1907.2	2039.2	2100.6	2078.3	1963.1	1822.1
42.5°	1213.9	1290.0	1392.9	1522.5	1679.4	1840.3	1952.7	1985.6	1926.4	1793.3	1628.3
45°	1119.1	1188.9	1290.8	1421.4	1572.2	1722.9	1808.2	1791.4	1692.9	1535.2	1350.2
47.5°	1020.4	1087.8	1179.5	1300.3	1454.7	1584.9	1642.5	1592.1	1452.0	1278.4	1127.9
50°	955.0	1024.1	1108.6	1223.9	1364.8	1490.5	1527.5	1450.7	1295.1	1128.1	990.0
52.5°	890.8	949.9	1032.7	1144.0	1278.8	1384.9	1404.6	1316.1	1155.4	1005.8	883.2
55°	793.0	846.9	916.7	1021.4	1137.9	1228.0	1217.5	1103.8	957.9	830.1	733.8
57.5°	698.5	739.0	803.5	901.7	1004.0	1064.5	1026.2	929.2	793.2	688.6	607.3
60°	636.0	673.7	733.8	819.6	909.7	943.8	911.7	806.4	698.8	603.2	534.7
62.5°	576.8	610.1	661.7	741.4	814.2	834.4	800.0	708.0	611.2	529.5	472.8
65°	490.8	521.5	565.5	622.1	672.3	682.1	659.7	565.5	492.2	423.7	384.7
67.5°	412.7	432.8	467.2	516.0	542.7	548.5	505.3	446.1	381.4	339.4	309.9
70°	360.2	374.2	406.3	432.8	454.4	455.1	415.4	367.9	318.3	284.2	262.5
72.5°	309.4	322.9	347.1	365.3	381.8	376.5	340.0	302.6	262.5	236.7	220.7
75°	238.7	250.6	263.2	271.6	271.6	264.6	238.0	210.2	187.1	171.8	166.8
77.5°	173.6	183.3	187.5	186.2	183.8	172.9	156.1	137.8	129.6	122.3	118.7
80°	136.1	140.4	141.7	138.3	134.0	121.5	110.3	102.6	94.9	92.2	90.8
82.5°	101.0	104.6	101.0	101.9	92.7	82.4	76.2	73.6	70.4	69.3	67.9
85°	53.7	53.0	51.7	48.2	41.9	40.5	39.8	39.1	37.7	38.4	37.0
87.5°	20.1	19.2	17.7	17.9	18.5	17.9	19.0	19.6	20.1	20.0	21.5
90°	8.3	12.0	15.8	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6
92.5°	36.9	41.1	45.3	49.7	52.7	54.6	56.6	58.4	60.3	61.5	62.7
95°	94.4	97.5	100.5	103.5	106.2	108.7	111.0	113.4	115.7	116.7	117.8
97.5°	162.0	164.4	166.9	169.4	172.0	174.7	177.4	180.3	183.0	184.2	185.5
100°	214.5	215.9	217.2	218.6	220.8	223.9	226.9	229.9	233.0	233.7	234.3
102.5°	269.7	270.3	270.8	271.4	273.1	275.8	278.6	281.3	284.2	285.1	286.0
105°	355.2	355.5	355.8	356.2	357.0	358.3	359.7	361.0	362.4	363.5	364.5
107.5°	445.0	445.5	445.9	446.3	446.6	446.8	447.0	447.2	447.4	448.3	449.3
110°	506.2	506.9	507.6	508.3	508.5	508.1	507.8	507.4	507.1	506.3	505.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	569.1	569.2	569.3	569.5	569.2	568.6	567.9	567.3	566.7	566.6	566.4
115°	663.9	663.9	663.9	663.9	663.6	662.9	662.2	661.6	660.9	660.6	660.1
117.5°	753.7	754.0	754.3	754.6	754.5	754.0	753.5	753.0	752.6	751.3	750.2
120°	814.5	815.9	817.2	818.5	818.7	817.7	816.7	815.7	814.7	812.9	811.2
122.5°	875.8	876.4	876.9	877.4	877.5	877.0	876.5	876.1	875.6	874.4	873.2
125°	966.9	966.9	966.9	966.9	966.7	966.4	966.0	965.7	965.4	964.7	964.0
127.5°	1051.1	1052.1	1053.1	1054.1	1054.4	1053.8	1053.3	1052.8	1052.2	1051.5	1050.9
130°	1109.5	1110.5	1111.6	1112.6	1113.1	1113.1	1113.1	1113.1	1113.1	1112.5	1111.8
132.5°	1169.0	1169.7	1170.4	1171.2	1171.4	1171.1	1170.9	1170.6	1170.3	1169.7	1169.0
135°	1249.1	1251.1	1253.2	1255.3	1256.3	1256.3	1256.3	1256.3	1256.3	1255.6	1254.9
137.5°	1333.9	1334.8	1335.8	1336.8	1337.6	1338.1	1338.6	1339.2	1339.7	1338.8	1338.0
140°	1390.9	1391.6	1392.3	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.6
142.5°	1443.3	1444.0	1444.6	1445.3	1445.5	1445.2	1445.0	1444.7	1444.4	1444.4	1444.3
145°	1516.4	1517.8	1519.1	1520.6	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4	1522.1
147.5°	1588.6	1590.2	1591.9	1593.5	1594.2	1593.9	1593.6	1593.4	1593.1	1592.8	1592.6
150°	1632.1	1633.6	1634.9	1636.3	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9
152.5°	1673.0	1673.9	1674.7	1675.5	1676.1	1676.3	1676.6	1676.9	1677.1	1677.9	1678.7
155°	1735.9	1735.9	1735.9	1735.9	1735.8	1735.4	1735.0	1734.7	1734.3	1735.8	1737.1
157.5°	1788.9	1788.3	1787.7	1787.1	1786.8	1786.7	1786.6	1786.6	1786.5	1787.5	1788.5
160°	1820.8	1820.5	1820.2	1819.8	1819.5	1819.2	1818.8	1818.5	1818.2	1819.2	1820.2
162.5°	1849.6	1848.7	1847.8	1846.8	1846.2	1845.9	1845.6	1845.2	1844.9	1846.7	1848.6
165°	1888.6	1887.6	1886.6	1885.6	1884.8	1884.1	1883.4	1882.8	1882.1	1884.1	1886.1
167.5°	1918.4	1917.0	1915.6	1914.2	1913.5	1913.6	1913.6	1913.7	1913.8	1915.8	1917.8
170°	1935.2	1933.5	1931.8	1930.2	1929.4	1929.8	1930.2	1930.5	1930.8	1932.8	1934.9
172.5°	1947.6	1946.2	1944.8	1943.4	1942.7	1942.8	1942.9	1942.9	1943.0	1945.3	1947.6
175°	1964.1	1962.5	1960.8	1959.0	1958.0	1957.7	1957.3	1957.0	1956.7	1959.0	1961.5
177.5°	1969.9	1968.6	1967.2	1965.9	1965.2	1965.2	1965.2	1965.2	1965.2	1967.1	1969.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1817.7	1819.9	1821.6	1827.1	1827.7	1832.7	1827.7
5°	1968.0	1977.8	1993.2	2008.5	2009.9	2019.6	2002.3
7.5°	2136.7	2159.3	2173.4	2198.3	2208.1	2214.1	2204.1
10°	2252.8	2273.8	2310.8	2329.0	2347.1	2349.9	2341.5
12.5°	2365.1	2398.3	2427.5	2461.8	2461.0	2485.6	2476.7
15°	2514.7	2548.9	2589.3	2627.8	2641.7	2641.7	2652.9
17.5°	2621.3	2684.0	2725.9	2756.0	2789.0	2794.7	2790.9
20°	2693.4	2761.1	2805.8	2844.9	2867.2	2873.5	2873.5
22.5°	2746.9	2804.6	2848.2	2883.4	2901.8	2909.2	2907.0
25°	2784.1	2833.7	2860.2	2870.6	2875.6	2874.2	2860.9
27.5°	2733.3	2731.1	2714.3	2682.2	2658.1	2643.4	2626.7
30°	2636.2	2599.8	2557.9	2511.8	2452.6	2407.1	2393.2
32.5°	2491.4	2409.9	2338.9	2262.2	2198.4	2153.0	2134.0
35°	2211.7	2082.5	1977.1	1884.9	1818.0	1776.0	1762.1
37.5°	1879.7	1754.6	1624.2	1534.8	1479.1	1436.8	1421.1
40°	1668.5	1532.4	1418.6	1334.8	1277.6	1236.4	1235.7
42.5°	1475.8	1345.8	1238.8	1178.4	1116.7	1089.4	1089.3
45°	1208.4	1104.4	1013.7	966.2	929.2	906.9	900.6
47.5°	1000.6	914.5	854.0	816.3	786.1	771.8	762.7
50°	883.8	808.4	760.2	727.4	710.6	692.6	691.2
52.5°	786.7	725.8	688.2	661.6	640.4	629.4	629.8
55°	661.2	613.0	586.4	566.1	549.5	541.1	537.6
57.5°	556.9	520.8	501.5	482.9	475.8	469.3	467.5
60°	492.2	467.8	449.6	434.9	424.4	422.3	421.6
62.5°	438.6	413.0	400.4	389.1	381.4	378.2	377.0
65°	361.6	342.7	331.6	322.6	319.7	314.9	314.2
67.5°	291.5	280.2	272.9	266.5	262.8	262.5	262.5
70°	248.5	242.3	236.0	232.5	230.4	228.9	228.9
72.5°	211.7	207.0	201.9	200.1	199.7	198.2	197.7
75°	161.3	156.4	157.0	153.6	150.8	147.3	145.2
77.5°	114.3	110.9	110.2	109.8	107.3	106.9	108.1
80°	88.7	85.1	84.4	85.1	84.4	82.4	82.4
82.5°	67.5	64.5	63.8	63.4	62.7	63.4	62.3
85°	36.3	34.9	34.9	34.9	36.3	35.6	34.9
87.5°	20.8	20.6	21.4	21.0	21.1	20.7	21.4
90°	39.6	41.6	43.0	43.6	44.3	45.0	45.6
92.5°	63.9	65.1	65.9	66.3	66.8	67.2	67.6
95°	118.8	119.8	120.3	120.3	120.3	120.3	120.3
97.5°	186.7	187.9	188.5	188.5	188.5	188.5	188.5
100°	235.0	235.7	236.0	236.0	236.0	236.0	236.0
102.5°	287.0	287.9	288.5	288.8	289.1	289.3	289.6
105°	365.5	366.5	367.5	368.5	369.5	370.5	371.5
107.5°	450.2	451.2	451.6	451.5	451.5	451.4	451.3
110°	505.0	504.3	504.5	505.5	506.5	507.6	508.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	566.3	566.2	566.2	566.4	566.6	566.8	567.0
115°	659.8	659.5	659.1	658.8	658.5	658.1	657.8
117.5°	749.1	747.9	747.0	746.3	745.7	745.0	744.3
120°	809.6	807.9	807.4	808.1	808.7	809.4	810.1
122.5°	872.1	871.0	869.8	868.6	867.4	866.2	864.9
125°	963.4	962.7	962.0	961.3	960.7	960.0	959.3
127.5°	1050.2	1049.5	1048.8	1048.3	1047.8	1047.2	1046.7
130°	1111.1	1110.3	1109.3	1108.0	1106.7	1105.3	1104.0
132.5°	1168.3	1167.6	1167.0	1166.5	1166.0	1165.4	1164.9
135°	1254.3	1253.5	1252.6	1251.6	1250.6	1249.6	1248.6
137.5°	1337.1	1336.2	1335.8	1336.1	1336.3	1336.5	1336.7
140°	1392.3	1391.9	1391.6	1391.3	1390.9	1390.6	1390.3
142.5°	1444.2	1444.2	1444.1	1444.0	1444.0	1443.9	1443.8
145°	1521.7	1521.4	1520.7	1519.6	1518.6	1517.6	1516.6
147.5°	1592.3	1592.0	1591.6	1591.3	1591.0	1590.6	1590.3
150°	1636.9	1636.9	1636.8	1636.4	1636.1	1635.8	1635.4
152.5°	1679.5	1680.3	1680.3	1679.4	1678.6	1677.7	1676.8
155°	1738.4	1739.8	1739.8	1738.4	1737.1	1735.8	1734.3
157.5°	1789.5	1790.5	1790.4	1789.3	1788.2	1787.0	1785.8
160°	1821.2	1822.2	1821.8	1820.2	1818.5	1816.7	1815.0
162.5°	1850.4	1852.2	1852.3	1850.6	1849.0	1847.2	1845.5
165°	1888.1	1890.2	1890.6	1889.2	1887.8	1886.4	1885.1
167.5°	1919.9	1921.9	1921.9	1919.8	1917.6	1915.5	1913.4
170°	1936.9	1938.9	1938.7	1936.4	1934.0	1931.7	1929.2
172.5°	1949.8	1952.2	1952.2	1949.7	1947.4	1945.0	1942.7
175°	1963.8	1966.2	1966.2	1963.8	1961.5	1959.0	1956.7
177.5°	1970.9	1972.8	1972.7	1970.4	1968.3	1966.2	1964.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8

(END OF REPORT)