

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: P331568-840

Luminaire Tested: **S122DIW-S865D970U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331568-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D970U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7240.7 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

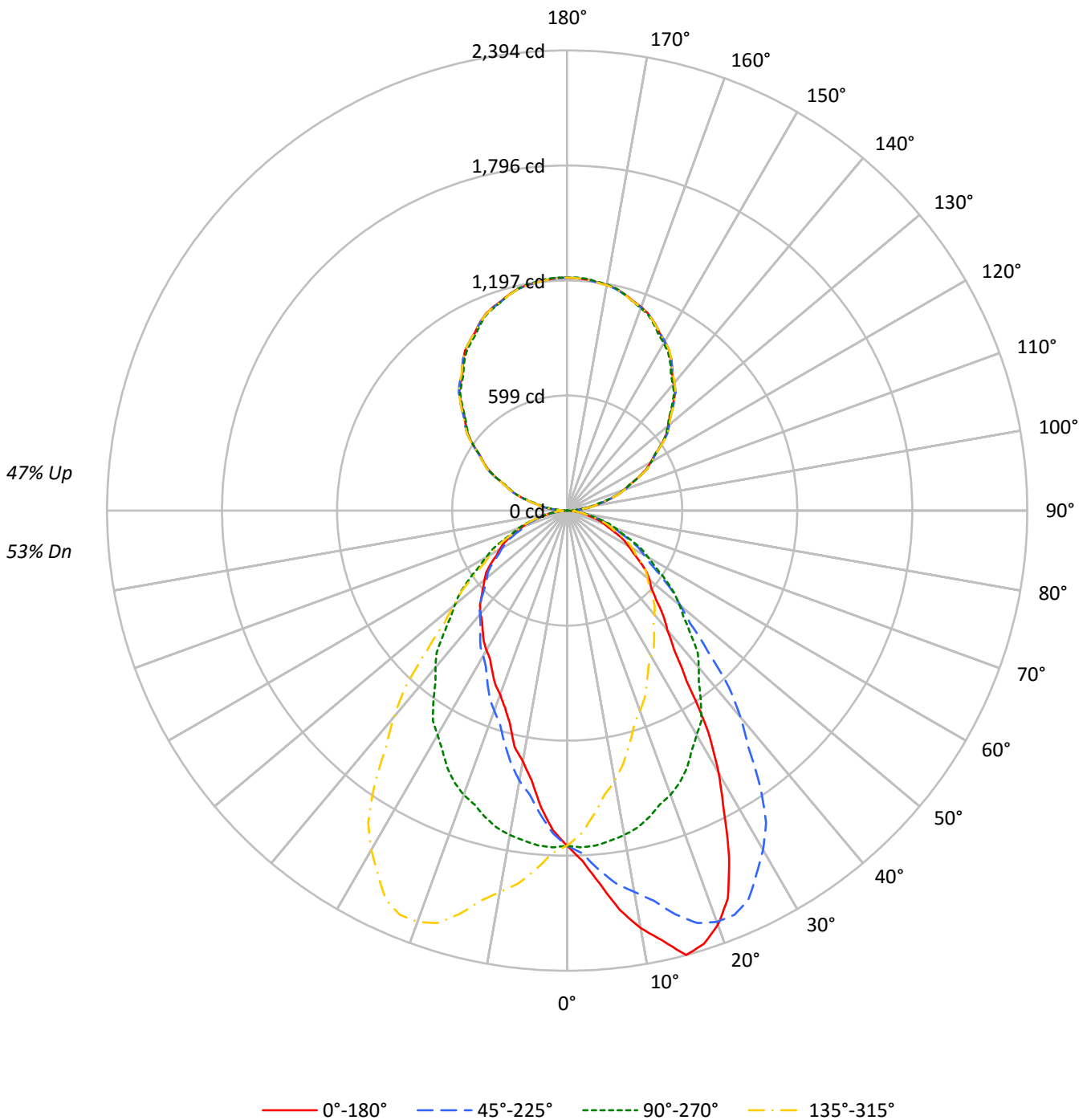
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	77	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

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

	0°	90°	180°	270°
0°	28150	28150	28150	28150
5°	31561	28336	25109	28336
10°	36166	28103	21730	28103
15°	40010	27587	19198	27587
20°	39400	27034	17500	27034
25°	35527	26298	16425	26298
30°	29358	25124	15642	25124
35°	21396	23893	15084	23893
40°	17089	22443	14773	22443
45°	14933	20763	14351	20763
50°	14039	19138	14071	19138
55°	12940	17486	13695	17486
60°	11858	15733	13114	15733
65°	10804	14155	12542	14155
70°	9805	12623	11703	12623
75°	8696	10911	10368	10911
80°	7476	9028	8350	9028
85°	6706	6706	4965	6706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.1	2.3
10°-20°	482.7	6.7
20°-30°	700.6	9.7
30°-40°	739.3	10.2
40°-50°	654.6	9.0
50°-60°	522.4	7.2
60°-70°	355.1	4.9
70°-80°	182.0	2.5
80°-90°	48.7	0.7
90°-100°	76.8	1.1
100°-110°	238.5	3.3
110°-120°	407.7	5.6
120°-130°	536.2	7.4
130°-140°	601.8	8.3
140°-150°	590.1	8.1
150°-160°	494.9	6.8
160°-170°	328.3	4.5
170°-180°	114.7	1.6
0°-30°	1349.4	18.6
0°-40°	2088.7	28.8
0°-60°	3265.7	45.1
0°-90°	3851.5	53.2
90°-120°	723.1	10.0
90°-150°	2451.2	33.9
90°-180°	3389.0	46.8
0°-180°	7240.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1947	1748	1549	1748	1947	194
15°	2394	1650	1148	1650	2394	660
25°	1994	1476	922	1476	1994	901
35°	1086	1212	765	1212	1086	706
45°	654	909	628	909	654	514
55°	460	621	486	621	460	412
65°	283	370	328	370	283	281
75°	139	175	166	175	139	149
85°	36	36	27	36	36	41
90°	35	1	35	1	35	17
95°	63	53	63	53	63	71
105°	227	220	227	220	227	239
115°	409	409	409	409	409	404
125°	597	595	597	595	597	532
135°	779	770	779	770	779	600
145°	945	935	945	935	945	590
155°	1077	1069	1077	1069	1077	496
165°	1164	1163	1164	1163	1164	328
175°	1206	1210	1206	1210	1206	115
180°	1212	1212	1212	1212	1212	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1824.0	1824.5	1825.6	1817.1	1815.9	1815.9	1808.5	1802.0	1794.5	1784.3	1785.4
5°	1947.3	1954.7	1957.3	1949.3	1937.2	1935.9	1924.5	1905.7	1888.3	1874.2	1864.2
7.5°	2094.5	2097.4	2090.8	2080.2	2071.2	2055.2	2034.0	2013.3	1984.2	1957.5	1937.6
10°	2205.9	2210.0	2198.6	2183.1	2170.4	2151.6	2120.8	2089.3	2051.1	2014.3	1984.8
12.5°	2290.7	2300.6	2285.9	2283.9	2262.1	2236.3	2199.7	2183.7	2130.0	2078.6	2047.0
15°	2393.6	2392.9	2394.3	2381.5	2365.4	2361.4	2322.6	2280.4	2204.6	2174.4	2122.2
17.5°	2363.8	2374.0	2378.7	2378.5	2378.1	2375.6	2363.2	2336.5	2298.6	2249.7	2189.3
20°	2293.1	2306.4	2308.5	2323.9	2332.6	2344.0	2348.6	2341.3	2317.8	2276.9	2224.7
22.5°	2183.7	2187.5	2193.7	2217.8	2236.6	2265.2	2280.1	2304.8	2295.8	2275.9	2232.2
25°	1994.2	1987.5	2010.9	2023.0	2066.6	2112.1	2145.0	2181.1	2213.3	2232.7	2220.0
27.5°	1766.7	1756.6	1791.7	1823.7	1859.1	1908.4	1959.6	2020.0	2070.3	2133.1	2154.7
30°	1574.7	1580.7	1614.3	1648.4	1702.0	1771.7	1829.4	1895.7	1967.4	2037.7	2086.7
32.5°	1367.8	1391.0	1412.2	1464.5	1511.8	1589.4	1673.9	1756.9	1846.2	1926.2	2002.0
35°	1085.5	1112.4	1141.9	1180.0	1246.4	1323.4	1405.8	1517.7	1639.7	1749.0	1838.8
37.5°	913.7	909.5	926.3	953.9	1007.6	1069.9	1164.8	1275.4	1418.9	1547.2	1673.9
40°	810.8	808.1	820.2	845.7	886.6	932.1	1015.2	1112.4	1245.7	1402.5	1553.3
42.5°	740.0	741.6	748.3	766.3	794.4	831.8	894.0	976.7	1098.8	1246.5	1408.6
45°	654.0	658.7	666.1	674.8	690.8	721.6	756.5	815.5	912.0	1035.3	1194.8
47.5°	592.1	592.2	599.8	607.3	616.9	634.3	662.7	699.7	767.8	868.2	1005.3
50°	558.9	554.2	559.6	565.5	575.6	587.6	606.4	641.3	686.8	767.9	882.5
52.5°	518.2	518.3	523.1	525.3	534.3	546.4	563.5	587.6	628.9	692.4	786.6
55°	459.7	463.0	465.7	469.7	477.8	486.5	499.9	515.9	548.2	595.7	665.4
57.5°	404.8	405.8	408.5	416.2	421.2	429.3	442.0	456.6	477.5	512.7	565.1
60°	367.2	367.2	372.5	375.9	382.6	390.6	400.7	414.8	433.5	462.3	504.6
62.5°	333.0	332.3	334.5	340.0	345.1	352.6	362.6	374.6	392.2	417.9	452.6
65°	282.8	281.4	285.5	286.8	292.2	299.5	307.6	320.3	334.4	353.1	384.0
67.5°	234.5	236.1	238.3	240.9	243.8	251.6	256.9	265.9	277.8	293.4	314.3
70°	207.7	207.7	207.7	209.7	213.8	217.8	223.2	230.6	241.9	255.3	274.1
72.5°	177.7	179.9	182.0	180.8	185.9	188.3	194.7	198.8	209.7	218.3	234.9
75°	139.4	139.4	139.4	142.7	144.7	146.7	150.8	154.8	160.2	170.9	179.6
77.5°	104.0	103.7	104.4	105.2	107.3	109.8	111.0	114.6	119.6	124.5	131.9
80°	80.4	81.8	82.4	83.7	83.7	85.1	85.7	90.5	93.8	97.1	101.9
82.5°	62.2	62.4	62.6	62.8	63.4	64.2	65.9	67.5	68.6	71.4	75.0
85°	36.2	35.5	35.5	36.9	36.2	36.2	37.6	38.9	38.9	39.5	41.5
87.5°	20.9	20.8	21.3	20.8	20.7	21.3	21.4	20.9	21.5	22.2	21.7
90°	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8	35.3	35.7	30.8
92.5°	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7	32.6	32.5	31.3
95°	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4	65.4	65.4	65.0
97.5°	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1	110.1	110.1	109.2
100°	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2	141.2	141.2	140.5
102.5°	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1	174.9	174.7	173.8
105°	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9	225.5	225.0	224.6
107.5°	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8	280.6	280.4	280.4
110°	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1	318.1	318.1	318.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5	356.0	356.6	356.8
115°	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7	413.0	413.2	413.6
117.5°	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2	468.8	469.3	470.6
120°	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3	505.3	505.3	507.2
122.5°	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5	544.0	544.5	545.8
125°	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1	600.8	601.5	602.1
127.5°	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0	655.8	656.7	657.5
130°	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6	693.1	693.5	694.0
132.5°	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1	730.1	731.1	731.0
135°	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0	783.3	783.5	783.0
137.5°	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7	834.9	835.1	834.5
140°	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4	869.4	869.4	868.3
142.5°	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9	900.7	900.5	899.8
145°	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7	948.4	948.2	946.8
147.5°	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5	990.0	989.5	988.6
150°	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7	1014.8
152.5°	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9	1040.8
155°	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3	1076.1	1075.0	1074.3
157.5°	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4	1106.8	1105.3	1104.9
160°	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8	1125.5	1124.1	1123.9
162.5°	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6	1142.1	1140.4	1140.2
165°	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2	1163.6	1162.0	1162.0
167.5°	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0	1181.3	1179.7	1179.8
170°	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8	1191.1	1189.6	1189.8
172.5°	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1	1198.5	1196.9	1197.2
175°	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1	1206.5	1204.9	1205.4
177.5°	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6	1210.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1789.2	1784.8	1782.2	1772.5	1763.9	1755.3	1752.7	1753.7	1742.0	1730.7	1725.9
5°	1858.9	1845.4	1832.7	1814.6	1793.2	1769.7	1757.7	1748.3	1724.8	1699.4	1684.7
7.5°	1921.3	1902.1	1877.6	1843.6	1812.3	1775.4	1752.0	1731.2	1697.0	1661.0	1639.0
10°	1959.3	1933.2	1901.7	1860.2	1822.0	1777.1	1745.6	1714.1	1673.9	1631.0	1604.2
12.5°	1992.1	1956.8	1925.8	1872.5	1827.4	1771.2	1733.8	1689.4	1647.1	1596.2	1569.9
15°	2069.9	2004.9	1945.9	1885.6	1830.0	1751.6	1710.1	1650.4	1594.8	1531.9	1501.7
17.5°	2130.1	2057.1	1964.2	1887.5	1822.6	1735.9	1674.9	1603.4	1537.6	1465.6	1424.6
20°	2164.4	2080.6	1980.7	1889.7	1811.9	1712.7	1646.4	1573.4	1496.3	1415.2	1371.0
22.5°	2184.7	2096.7	1997.9	1881.6	1790.5	1693.9	1610.5	1530.5	1452.4	1364.8	1318.5
25°	2191.2	2110.8	2006.3	1874.9	1763.7	1654.5	1554.0	1476.2	1381.7	1300.0	1232.3
27.5°	2159.3	2101.6	2001.1	1862.3	1732.7	1605.0	1493.0	1404.9	1305.3	1216.5	1148.4
30°	2120.2	2086.7	1988.8	1849.5	1708.1	1570.7	1447.4	1347.6	1248.4	1158.6	1088.9
32.5°	2059.6	2052.3	1966.3	1831.2	1681.8	1527.3	1399.7	1298.8	1188.9	1100.7	1034.2
35°	1940.6	1972.8	1918.4	1790.5	1632.3	1465.5	1327.5	1212.2	1098.3	1013.8	951.5
37.5°	1781.1	1861.0	1846.7	1730.8	1565.6	1398.3	1245.9	1125.4	1016.8	931.6	870.4
40°	1671.2	1773.0	1787.8	1685.3	1518.4	1346.3	1184.8	1064.8	958.9	881.2	819.5
42.5°	1553.3	1672.2	1712.7	1630.6	1466.9	1291.5	1130.0	1005.8	901.0	825.5	770.7
45°	1355.6	1513.1	1586.1	1539.2	1381.1	1201.4	1035.3	909.3	814.2	743.2	700.9
47.5°	1170.7	1342.8	1441.1	1424.5	1285.5	1107.6	943.3	822.4	729.8	673.2	635.4
50°	1040.0	1216.9	1335.4	1340.9	1216.9	1040.7	875.9	761.9	676.8	623.9	593.0
52.5°	926.3	1095.2	1224.6	1252.9	1140.2	971.0	815.3	701.9	626.9	578.2	550.7
55°	778.0	920.7	1064.1	1116.4	1025.9	865.1	721.0	621.2	550.8	517.4	493.2
57.5°	646.8	765.8	898.2	955.9	900.2	762.5	627.4	540.8	483.6	454.3	435.9
60°	577.6	671.5	789.4	858.4	810.1	687.5	569.6	487.2	440.3	414.1	396.7
62.5°	513.3	596.4	696.1	759.2	733.0	617.3	511.7	438.9	398.4	374.0	361.3
65°	423.5	489.2	566.2	624.5	607.1	519.3	432.9	370.5	338.4	318.9	308.9
67.5°	348.7	396.2	449.6	500.7	486.7	424.4	355.0	306.5	282.6	265.8	259.7
70°	301.5	337.7	385.3	426.2	414.8	363.9	308.9	267.4	246.6	232.6	226.5
72.5°	256.5	286.3	322.6	356.0	348.3	306.0	260.1	228.7	212.8	199.9	194.9
75°	193.7	216.4	238.5	260.6	258.6	225.8	199.0	174.9	162.2	152.1	150.1
77.5°	143.0	155.7	170.8	183.9	180.3	161.5	140.5	126.6	117.2	110.6	109.5
80°	109.3	116.6	127.3	136.7	132.0	124.0	107.2	97.1	90.5	83.7	81.1
82.5°	79.2	86.5	93.0	98.1	94.5	86.9	76.6	69.8	65.8	61.2	60.2
85°	41.5	45.5	48.3	49.6	48.3	43.5	38.9	36.2	32.8	30.8	30.2
87.5°	21.2	20.2	19.3	19.6	17.4	16.9	14.1	12.0	12.0	12.0	11.5
90°	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0	3.7	6.5	9.2
92.5°	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2	20.2	22.2	24.2
95°	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2	55.4	57.8	60.0
97.5°	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1	99.2	101.2	103.2
100°	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9	131.7	133.5	135.3
102.5°	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3	165.7	167.1	168.6
105°	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9	220.6	221.3	222.0
107.5°	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0	277.0	277.9	278.9
110°	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9	313.4	314.7	316.1





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2	352.6	354.0	355.4
115°	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1	410.5	411.8	413.2
117.5°	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9	468.7	470.5	472.3
120°	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	507.2	509.0	510.8
122.5°	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5	542.7	544.8	547.0
125°	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3	597.3	599.4	601.5
127.5°	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7	651.3	653.9	656.5
130°	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3	685.2	688.1	691.2
132.5°	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8	722.3	724.7	727.1
135°	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2	772.7	775.2	777.7
137.5°	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1	825.3	827.3	829.3
140°	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1	857.2	859.2	861.2
142.5°	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9	889.9	891.9	893.9
145°	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8	936.4	938.1	939.7
147.5°	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8	978.8	980.7	982.5
150°	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4	1006.8	1008.1	1009.6
152.5°	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9	1032.2	1033.6	1034.9
155°	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8	1069.5	1070.3	1071.0
157.5°	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4	1101.9	1102.3	1102.8
160°	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1	1121.5	1122.0	1122.4
162.5°	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0	1139.1	1139.2	1139.3
165°	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0	1162.8	1162.6	1162.3
167.5°	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1	1182.3	1181.6	1180.9
170°	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7	1193.0	1192.3	1191.6
172.5°	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0	1200.3	1199.6	1199.0
175°	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0	1209.3	1208.7	1208.0
177.5°	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8	1213.2	1212.6	1212.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1720.5	1717.3	1706.1	1700.2	1690.5	1681.4	1675.5	1678.2	1680.3	1679.2	1677.7
5°	1671.2	1658.5	1639.0	1622.2	1610.2	1588.1	1578.7	1574.1	1570.0	1565.3	1560.6
7.5°	1612.6	1592.5	1564.5	1540.7	1518.1	1490.7	1475.0	1465.6	1456.0	1445.4	1436.0
10°	1570.7	1542.6	1513.1	1479.6	1452.8	1427.9	1405.8	1391.1	1377.8	1364.9	1355.6
12.5°	1526.7	1494.3	1457.8	1412.0	1382.5	1347.1	1343.6	1317.7	1296.8	1288.9	1277.9
15°	1456.8	1411.2	1364.9	1310.7	1287.3	1255.1	1235.0	1214.9	1196.8	1184.1	1180.7
17.5°	1377.4	1318.4	1272.3	1233.3	1194.9	1162.0	1143.5	1127.4	1112.5	1095.5	1093.2
20°	1316.8	1265.8	1215.6	1181.3	1141.9	1108.3	1085.5	1069.4	1056.7	1046.7	1037.9
22.5°	1259.4	1203.7	1157.6	1120.2	1081.3	1054.2	1036.2	1020.7	1010.1	999.0	990.8
25°	1167.3	1123.8	1073.5	1031.3	999.1	981.7	966.9	953.5	946.8	939.5	930.1
27.5°	1086.7	1038.3	991.4	958.7	930.4	914.9	904.5	895.3	889.1	884.7	879.4
30°	1030.0	981.0	944.1	912.0	888.6	873.1	866.5	861.1	853.7	851.0	848.4
32.5°	975.2	931.2	899.7	871.8	849.4	839.4	833.2	828.4	822.6	819.9	814.6
35°	898.0	861.1	830.2	814.9	796.8	788.0	783.4	776.7	771.2	768.6	767.9
37.5°	825.2	793.1	772.8	753.1	745.4	740.0	733.7	729.0	727.4	727.0	726.4
40°	778.0	751.8	733.8	717.7	714.3	706.3	700.9	696.9	696.9	697.6	696.9
42.5°	735.1	711.7	695.7	681.8	677.8	673.1	667.7	667.4	668.5	670.8	668.5
45°	670.0	653.4	642.0	635.2	627.8	623.2	622.5	624.5	625.2	625.9	627.8
47.5°	610.4	599.2	588.9	581.5	578.2	577.4	576.6	580.2	583.4	584.6	587.6
50°	574.9	562.2	553.5	548.8	546.1	544.8	546.1	550.2	552.8	556.1	558.2
52.5°	535.2	526.2	520.3	516.6	515.5	516.3	516.6	521.2	525.5	526.6	527.7
55°	480.5	473.7	472.4	466.4	469.1	468.4	471.7	474.4	478.5	482.5	483.1
57.5°	425.8	420.4	416.8	417.4	418.2	421.1	423.9	428.6	432.9	437.2	437.6
60°	389.3	386.7	384.7	384.7	386.0	390.0	393.3	398.0	400.7	403.4	405.4
62.5°	356.1	353.5	351.4	352.4	356.0	358.4	362.2	364.8	367.5	370.1	371.1
65°	303.6	302.3	304.3	305.6	306.2	309.6	314.3	316.3	318.9	320.3	325.0
67.5°	255.2	255.4	255.2	257.0	260.9	261.8	266.2	270.8	271.4	274.0	277.0
70°	222.5	223.8	225.2	226.5	229.8	231.2	234.5	236.5	239.2	241.3	243.3
72.5°	192.5	192.7	194.1	193.8	196.6	199.5	202.4	204.4	207.0	209.6	211.6
75°	148.0	148.0	149.5	150.1	153.5	156.8	156.1	157.4	160.2	162.8	164.2
77.5°	108.2	106.6	108.2	108.9	109.9	112.7	113.2	115.1	118.2	117.2	118.8
80°	82.4	80.4	82.4	83.1	83.1	86.4	86.4	87.8	89.8	87.8	89.8
82.5°	58.9	57.9	59.4	59.5	60.6	60.7	61.8	62.0	64.0	63.1	64.0
85°	29.5	28.8	29.5	28.8	29.5	30.2	30.2	29.5	29.5	30.8	28.8
87.5°	11.5	11.7	12.2	13.2	13.6	14.1	13.5	13.4	13.3	12.1	12.1
90°	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8	34.4	33.9	33.8
92.5°	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7	32.8	32.9	32.9
95°	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4	65.4	65.4	65.2
97.5°	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1	110.1	110.1	110.1
100°	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2	141.2	141.2	141.1
102.5°	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1	175.2	175.4	175.4
105°	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9	226.4	226.8	227.1
107.5°	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8	281.0	281.1	280.7
110°	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	317.8



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5	355.0	354.4	353.9
115°	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7	412.5	412.3	411.8
117.5°	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2	467.7	467.1	466.5
120°	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3	505.3	505.3	504.9
122.5°	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5	542.9	542.4	541.9
125°	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1	599.4	598.7	598.2
127.5°	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0	654.2	653.4	652.6
130°	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6	692.2	691.7	690.9
132.5°	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1	728.1	727.1	726.3
135°	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0	782.8	782.5	782.1
137.5°	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7	834.6	834.4	833.7
140°	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4	869.4	869.4	869.0
142.5°	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9	901.1	901.2	900.9
145°	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7	948.9	949.1	948.8
147.5°	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5	991.0	991.5	991.3
150°	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4
152.5°	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3
155°	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3	1078.4	1079.5	1079.7
157.5°	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4	1109.9	1111.5	1111.7
160°	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8	1128.2	1129.5	1129.8
162.5°	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6	1145.1	1146.7	1146.9
165°	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2	1166.7	1168.3	1168.5
167.5°	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0	1184.6	1186.1	1186.3
170°	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8	1194.4	1196.0	1196.1
172.5°	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1	1201.7	1203.3	1203.5
175°	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1	1209.7	1211.2	1211.4
177.5°	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1672.2	1671.2	1671.2	1666.4	1671.2	1671.2	1672.2	1677.7	1679.2	1680.3	1678.2
5°	1551.3	1549.2	1545.9	1549.2	1545.9	1549.2	1551.3	1560.6	1565.3	1570.0	1574.1
7.5°	1431.6	1423.5	1422.3	1414.4	1422.3	1423.5	1431.6	1436.0	1445.4	1456.0	1465.6
10°	1344.2	1338.9	1338.2	1325.4	1338.2	1338.9	1344.2	1355.6	1364.9	1377.8	1391.1
12.5°	1277.8	1264.9	1267.4	1260.0	1267.4	1264.9	1277.8	1277.9	1288.9	1296.8	1317.7
15°	1162.7	1162.7	1159.9	1148.5	1159.9	1162.7	1162.7	1180.7	1184.1	1196.8	1214.9
17.5°	1079.9	1078.5	1072.2	1075.4	1072.2	1078.5	1079.9	1093.2	1095.5	1112.5	1127.4
20°	1030.6	1026.6	1018.5	1018.5	1018.5	1026.6	1030.6	1037.9	1046.7	1056.7	1069.4
22.5°	984.0	983.7	975.1	977.8	975.1	983.7	984.0	990.8	999.0	1010.1	1020.7
25°	929.4	924.0	920.1	922.0	920.1	924.0	929.4	930.1	939.5	946.8	953.5
27.5°	877.7	874.7	874.4	869.0	874.4	874.7	877.7	879.4	884.7	889.1	895.3
30°	847.7	841.0	842.3	839.0	842.3	841.0	847.7	848.4	851.0	853.7	861.1
32.5°	813.3	810.9	809.6	806.8	809.6	810.9	813.3	814.6	819.9	822.6	828.4
35°	766.6	767.3	763.9	765.3	763.9	767.3	766.6	767.9	768.6	771.2	776.7
37.5°	725.7	727.8	726.3	726.7	726.3	727.8	725.7	726.4	727.0	727.4	729.0
40°	698.9	698.9	698.9	700.9	698.9	698.9	698.9	696.9	697.6	696.9	696.9
42.5°	673.2	672.1	671.1	670.9	671.1	672.1	673.2	668.5	670.8	668.5	667.4
45°	629.2	631.3	631.9	628.5	631.9	631.3	629.2	627.8	625.9	625.2	624.5
47.5°	589.5	589.7	589.5	592.4	589.5	589.7	589.5	587.6	584.6	583.4	580.2
50°	561.6	560.2	561.6	560.2	561.6	560.2	561.6	558.2	556.1	552.8	550.2
52.5°	532.1	532.3	531.5	531.3	531.5	532.3	532.1	527.7	526.6	525.5	521.2
55°	485.8	487.2	486.5	486.5	486.5	487.2	485.8	483.1	482.5	478.5	474.4
57.5°	438.0	439.2	440.1	437.2	440.1	439.2	438.0	437.6	437.2	432.9	428.6
60°	404.8	408.1	407.4	406.1	407.4	408.1	404.8	405.4	403.4	400.7	398.0
62.5°	374.2	375.4	375.3	375.0	375.3	375.4	374.2	371.1	370.1	367.5	364.8
65°	327.0	328.3	326.3	328.3	326.3	328.3	327.0	325.0	320.3	318.9	316.3
67.5°	276.2	276.6	278.1	279.0	278.1	276.6	276.2	277.0	274.0	271.4	270.8
70°	244.6	243.9	245.9	247.9	245.9	243.9	244.6	243.3	241.3	239.2	236.5
72.5°	211.4	212.8	212.2	213.6	212.2	212.8	211.4	211.6	209.6	207.0	204.4
75°	162.8	164.8	164.2	166.2	164.2	164.8	162.8	164.2	162.8	160.2	157.4
77.5°	117.6	118.0	117.6	118.8	117.6	118.0	117.6	118.8	117.2	118.2	115.1
80°	89.8	88.5	87.2	89.8	87.2	88.5	89.8	89.8	87.8	89.8	87.8
82.5°	62.4	63.2	61.9	61.9	61.9	63.2	62.4	64.0	63.1	64.0	62.0
85°	28.8	28.2	26.8	26.8	26.8	28.2	28.8	28.8	30.8	29.5	29.5
87.5°	12.2	11.7	11.7	11.2	11.7	11.7	12.2	12.1	12.1	13.3	13.4
90°	34.1	34.3	34.5	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8
92.5°	33.0	33.0	33.1	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7
95°	64.7	64.3	63.8	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4
97.5°	110.0	110.0	109.9	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1
100°	140.8	140.6	140.4	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2
102.5°	175.2	174.9	174.7	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1
105°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9
107.5°	279.7	278.6	277.6	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8
110°	317.1	316.4	315.7	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	353.4	352.8	352.3	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5
115°	411.2	410.5	409.8	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7
117.5°	465.9	465.1	464.4	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2
120°	504.2	503.6	502.9	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3
122.5°	541.4	540.9	540.4	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5
125°	598.0	597.8	597.5	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1
127.5°	651.9	651.2	650.5	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0
130°	690.0	689.1	688.2	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6
132.5°	725.6	724.8	724.1	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1
135°	781.4	780.7	780.1	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0
137.5°	832.8	831.9	831.0	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7
140°	868.1	867.2	866.3	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4
142.5°	900.0	899.1	898.2	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9
145°	947.9	947.0	946.0	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7
147.5°	990.5	989.6	988.8	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5
150°	1017.7	1017.0	1016.3	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0
152.5°	1044.5	1043.6	1042.7	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6
155°	1079.1	1078.4	1077.7	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3
157.5°	1110.6	1109.5	1108.4	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4
160°	1128.9	1128.0	1127.1	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8
162.5°	1145.8	1144.7	1143.6	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6
165°	1167.4	1166.3	1165.2	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2
167.5°	1185.2	1184.0	1182.8	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0
170°	1194.7	1193.4	1191.9	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8
172.5°	1202.0	1200.7	1199.3	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1
175°	1210.0	1208.7	1207.3	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1
177.5°	1212.8	1211.8	1210.7	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1675.5	1681.4	1690.5	1700.2	1706.1	1717.3	1720.5	1725.9	1730.7	1742.0	1753.7
5°	1578.7	1588.1	1610.2	1622.2	1639.0	1658.5	1671.2	1684.7	1699.4	1724.8	1748.3
7.5°	1475.0	1490.7	1518.1	1540.7	1564.5	1592.5	1612.6	1639.0	1661.0	1697.0	1731.2
10°	1405.8	1427.9	1452.8	1479.6	1513.1	1542.6	1570.7	1604.2	1631.0	1673.9	1714.1
12.5°	1343.6	1347.1	1382.5	1412.0	1457.8	1494.3	1526.7	1569.9	1596.2	1647.1	1689.4
15°	1235.0	1255.1	1287.3	1310.7	1364.9	1411.2	1456.8	1501.7	1531.9	1594.8	1650.4
17.5°	1143.5	1162.0	1194.9	1233.3	1272.3	1318.4	1377.4	1424.6	1465.6	1537.6	1603.4
20°	1085.5	1108.3	1141.9	1181.3	1215.6	1265.8	1316.8	1371.0	1415.2	1496.3	1573.4
22.5°	1036.2	1054.2	1081.3	1120.2	1157.6	1203.7	1259.4	1318.5	1364.8	1452.4	1530.5
25°	966.9	981.7	999.1	1031.3	1073.5	1123.8	1167.3	1232.3	1300.0	1381.7	1476.2
27.5°	904.5	914.9	930.4	958.7	991.4	1038.3	1086.7	1148.4	1216.5	1305.3	1404.9
30°	866.5	873.1	888.6	912.0	944.1	981.0	1030.0	1088.9	1158.6	1248.4	1347.6
32.5°	833.2	839.4	849.4	871.8	899.7	931.2	975.2	1034.2	1100.7	1188.9	1298.8
35°	783.4	788.0	796.8	814.9	830.2	861.1	898.0	951.5	1013.8	1098.3	1212.2
37.5°	733.7	740.0	745.4	753.1	772.8	793.1	825.2	870.4	931.6	1016.8	1125.4
40°	700.9	706.3	714.3	717.7	733.8	751.8	778.0	819.5	881.2	958.9	1064.8
42.5°	667.7	673.1	677.8	681.8	695.7	711.7	735.1	770.7	825.5	901.0	1005.8
45°	622.5	623.2	627.8	635.2	642.0	653.4	670.0	700.9	743.2	814.2	909.3
47.5°	576.6	577.4	578.2	581.5	588.9	599.2	610.4	635.4	673.2	729.8	822.4
50°	546.1	544.8	546.1	548.8	553.5	562.2	574.9	593.0	623.9	676.8	761.9
52.5°	516.6	516.3	515.5	516.6	520.3	526.2	535.2	550.7	578.2	626.9	701.9
55°	471.7	468.4	469.1	466.4	472.4	473.7	480.5	493.2	517.4	550.8	621.2
57.5°	423.9	421.1	418.2	417.4	416.8	420.4	425.8	435.9	454.3	483.6	540.8
60°	393.3	390.0	386.0	384.7	384.7	386.7	389.3	396.7	414.1	440.3	487.2
62.5°	362.2	358.4	356.0	352.4	351.4	353.5	356.1	361.3	374.0	398.4	438.9
65°	314.3	309.6	306.2	305.6	304.3	302.3	303.6	308.9	318.9	338.4	370.5
67.5°	266.2	261.8	260.9	257.0	255.2	255.4	255.2	259.7	265.8	282.6	306.5
70°	234.5	231.2	229.8	226.5	225.2	223.8	222.5	226.5	232.6	246.6	267.4
72.5°	202.4	199.5	196.6	193.8	194.1	192.7	192.5	194.9	199.9	212.8	228.7
75°	156.1	156.8	153.5	150.1	149.5	148.0	148.0	150.1	152.1	162.2	174.9
77.5°	113.2	112.7	109.9	108.9	108.2	106.6	108.2	109.5	110.6	117.2	126.6
80°	86.4	86.4	83.1	83.1	82.4	80.4	82.4	81.1	83.7	90.5	97.1
82.5°	61.8	60.7	60.6	59.5	59.4	57.9	58.9	60.2	61.2	65.8	69.8
85°	30.2	30.2	29.5	28.8	29.5	28.8	29.5	30.2	30.8	32.8	36.2
87.5°	13.5	14.1	13.6	13.2	12.2	11.7	11.5	11.5	12.0	12.0	12.0
90°	35.3	35.7	30.8	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0
92.5°	32.6	32.5	31.3	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2
95°	65.4	65.4	65.0	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2
97.5°	110.1	110.1	109.2	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1
100°	141.2	141.2	140.5	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9
102.5°	174.9	174.7	173.8	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3
105°	225.5	225.0	224.6	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9
107.5°	280.6	280.4	280.4	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0
110°	318.1	318.1	318.1	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	356.0	356.6	356.8	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2
115°	413.0	413.2	413.6	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1
117.5°	468.8	469.3	470.6	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9
120°	505.3	505.3	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3
122.5°	544.0	544.5	545.8	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5
125°	600.8	601.5	602.1	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3
127.5°	655.8	656.7	657.5	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7
130°	693.1	693.5	694.0	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3
132.5°	730.1	731.1	731.0	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8
135°	783.3	783.5	783.0	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2
137.5°	834.9	835.1	834.5	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1
140°	869.4	869.4	868.3	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1
142.5°	900.7	900.5	899.8	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9
145°	948.4	948.2	946.8	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8
147.5°	990.0	989.5	988.6	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8
150°	1016.3	1015.7	1014.8	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4
152.5°	1042.7	1041.9	1040.8	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9
155°	1076.1	1075.0	1074.3	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8
157.5°	1106.8	1105.3	1104.9	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4
160°	1125.5	1124.1	1123.9	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1
162.5°	1142.1	1140.4	1140.2	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0
165°	1163.6	1162.0	1162.0	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0
167.5°	1181.3	1179.7	1179.8	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1
170°	1191.1	1189.6	1189.8	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7
172.5°	1198.5	1196.9	1197.2	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0
175°	1206.5	1204.9	1205.4	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0
177.5°	1210.7	1209.6	1210.0	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1752.7	1755.3	1763.9	1772.5	1782.2	1784.8	1789.2	1785.4	1784.3	1794.5	1802.0
5°	1757.7	1769.7	1793.2	1814.6	1832.7	1845.4	1858.9	1864.2	1874.2	1888.3	1905.7
7.5°	1752.0	1775.4	1812.3	1843.6	1877.6	1902.1	1921.3	1937.6	1957.5	1984.2	2013.3
10°	1745.6	1777.1	1822.0	1860.2	1901.7	1933.2	1959.3	1984.8	2014.3	2051.1	2089.3
12.5°	1733.8	1771.2	1827.4	1872.5	1925.8	1956.8	1992.1	2047.0	2078.6	2130.0	2183.7
15°	1710.1	1751.6	1830.0	1885.6	1945.9	2004.9	2069.9	2122.2	2174.4	2204.6	2280.4
17.5°	1674.9	1735.9	1822.6	1887.5	1964.2	2057.1	2130.1	2189.3	2249.7	2298.6	2336.5
20°	1646.4	1712.7	1811.9	1889.7	1980.7	2080.6	2164.4	2224.7	2276.9	2317.8	2341.3
22.5°	1610.5	1693.9	1790.5	1881.6	1997.9	2096.7	2184.7	2232.2	2275.9	2295.8	2304.8
25°	1554.0	1654.5	1763.7	1874.9	2006.3	2110.8	2191.2	2220.0	2232.7	2213.3	2181.1
27.5°	1493.0	1605.0	1732.7	1862.3	2001.1	2101.6	2159.3	2154.7	2133.1	2070.3	2020.0
30°	1447.4	1570.7	1708.1	1849.5	1988.8	2086.7	2120.2	2086.7	2037.7	1967.4	1895.7
32.5°	1399.7	1527.3	1681.8	1831.2	1966.3	2052.3	2059.6	2002.0	1926.2	1846.2	1756.9
35°	1327.5	1465.5	1632.3	1790.5	1918.4	1972.8	1940.6	1838.8	1749.0	1639.7	1517.7
37.5°	1245.9	1398.3	1565.6	1730.8	1846.7	1861.0	1781.1	1673.9	1547.2	1418.9	1275.4
40°	1184.8	1346.3	1518.4	1685.3	1787.8	1773.0	1671.2	1553.3	1402.5	1245.7	1112.4
42.5°	1130.0	1291.5	1466.9	1630.6	1712.7	1672.2	1553.3	1408.6	1246.5	1098.8	976.7
45°	1035.3	1201.4	1381.1	1539.2	1586.1	1513.1	1355.6	1194.8	1035.3	912.0	815.5
47.5°	943.3	1107.6	1285.5	1424.5	1441.1	1342.8	1170.7	1005.3	868.2	767.8	699.7
50°	875.9	1040.7	1216.9	1340.9	1335.4	1216.9	1040.0	882.5	767.9	686.8	641.3
52.5°	815.3	971.0	1140.2	1252.9	1224.6	1095.2	926.3	786.6	692.4	628.9	587.6
55°	721.0	865.1	1025.9	1116.4	1064.1	920.7	778.0	665.4	595.7	548.2	515.9
57.5°	627.4	762.5	900.2	955.9	898.2	765.8	646.8	565.1	512.7	477.5	456.6
60°	569.6	687.5	810.1	858.4	789.4	671.5	577.6	504.6	462.3	433.5	414.8
62.5°	511.7	617.3	733.0	759.2	696.1	596.4	513.3	452.6	417.9	392.2	374.6
65°	432.9	519.3	607.1	624.5	566.2	489.2	423.5	384.0	353.1	334.4	320.3
67.5°	355.0	424.4	486.7	500.7	449.6	396.2	348.7	314.3	293.4	277.8	265.9
70°	308.9	363.9	414.8	426.2	385.3	337.7	301.5	274.1	255.3	241.9	230.6
72.5°	260.1	306.0	348.3	356.0	322.6	286.3	256.5	234.9	218.3	209.7	198.8
75°	199.0	225.8	258.6	260.6	238.5	216.4	193.7	179.6	170.9	160.2	154.8
77.5°	140.5	161.5	180.3	183.9	170.8	155.7	143.0	131.9	124.5	119.6	114.6
80°	107.2	124.0	132.0	136.7	127.3	116.6	109.3	101.9	97.1	93.8	90.5
82.5°	76.6	86.9	94.5	98.1	93.0	86.5	79.2	75.0	71.4	68.6	67.5
85°	38.9	43.5	48.3	49.6	48.3	45.5	41.5	41.5	39.5	38.9	38.9
87.5°	14.1	16.9	17.4	19.6	19.3	20.2	21.2	21.7	22.2	21.5	20.9
90°	3.7	6.5	9.2	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8
92.5°	20.2	22.2	24.2	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7
95°	55.4	57.8	60.0	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4
97.5°	99.2	101.2	103.2	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1
100°	131.7	133.5	135.3	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2
102.5°	165.7	167.1	168.6	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1
105°	220.6	221.3	222.0	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9
107.5°	277.0	277.9	278.9	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8
110°	313.4	314.7	316.1	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.6	354.0	355.4	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5
115°	410.5	411.8	413.2	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7
117.5°	468.7	470.5	472.3	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2
120°	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3
122.5°	542.7	544.8	547.0	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5
125°	597.3	599.4	601.5	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1
127.5°	651.3	653.9	656.5	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0
130°	685.2	688.1	691.2	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6
132.5°	722.3	724.7	727.1	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1
135°	772.7	775.2	777.7	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0
137.5°	825.3	827.3	829.3	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7
140°	857.2	859.2	861.2	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4
142.5°	889.9	891.9	893.9	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9
145°	936.4	938.1	939.7	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7
147.5°	978.8	980.7	982.5	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5
150°	1006.8	1008.1	1009.6	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0
152.5°	1032.2	1033.6	1034.9	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6
155°	1069.5	1070.3	1071.0	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3
157.5°	1101.9	1102.3	1102.8	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4
160°	1121.5	1122.0	1122.4	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8
162.5°	1139.1	1139.2	1139.3	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6
165°	1162.8	1162.6	1162.3	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2
167.5°	1182.3	1181.6	1180.9	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0
170°	1193.0	1192.3	1191.6	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8
172.5°	1200.3	1199.6	1199.0	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1
175°	1209.3	1208.7	1208.0	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1
177.5°	1213.2	1212.6	1212.0	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1808.5	1815.9	1815.9	1817.1	1825.6	1824.5	1824.0
5°	1924.5	1935.9	1937.2	1949.3	1957.3	1954.7	1947.3
7.5°	2034.0	2055.2	2071.2	2080.2	2090.8	2097.4	2094.5
10°	2120.8	2151.6	2170.4	2183.1	2198.6	2210.0	2205.9
12.5°	2199.7	2236.3	2262.1	2283.9	2285.9	2300.6	2290.7
15°	2322.6	2361.4	2365.4	2381.5	2394.3	2392.9	2393.6
17.5°	2363.2	2375.6	2378.1	2378.5	2378.7	2374.0	2363.8
20°	2348.6	2344.0	2332.6	2323.9	2308.5	2306.4	2293.1
22.5°	2280.1	2265.2	2236.6	2217.8	2193.7	2187.5	2183.7
25°	2145.0	2112.1	2066.6	2023.0	2010.9	1987.5	1994.2
27.5°	1959.6	1908.4	1859.1	1823.7	1791.7	1756.6	1766.7
30°	1829.4	1771.7	1702.0	1648.4	1614.3	1580.7	1574.7
32.5°	1673.9	1589.4	1511.8	1464.5	1412.2	1391.0	1367.8
35°	1405.8	1323.4	1246.4	1180.0	1141.9	1112.4	1085.5
37.5°	1164.8	1069.9	1007.6	953.9	926.3	909.5	913.7
40°	1015.2	932.1	886.6	845.7	820.2	808.1	810.8
42.5°	894.0	831.8	794.4	766.3	748.3	741.6	740.0
45°	756.5	721.6	690.8	674.8	666.1	658.7	654.0
47.5°	662.7	634.3	616.9	607.3	599.8	592.2	592.1
50°	606.4	587.6	575.6	565.5	559.6	554.2	558.9
52.5°	563.5	546.4	534.3	525.3	523.1	518.3	518.2
55°	499.9	486.5	477.8	469.7	465.7	463.0	459.7
57.5°	442.0	429.3	421.2	416.2	408.5	405.8	404.8
60°	400.7	390.6	382.6	375.9	372.5	367.2	367.2
62.5°	362.6	352.6	345.1	340.0	334.5	332.3	333.0
65°	307.6	299.5	292.2	286.8	285.5	281.4	282.8
67.5°	256.9	251.6	243.8	240.9	238.3	236.1	234.5
70°	223.2	217.8	213.8	209.7	207.7	207.7	207.7
72.5°	194.7	188.3	185.9	180.8	182.0	179.9	177.7
75°	150.8	146.7	144.7	142.7	139.4	139.4	139.4
77.5°	111.0	109.8	107.3	105.2	104.4	103.7	104.0
80°	85.7	85.1	83.7	83.7	82.4	81.8	80.4
82.5°	65.9	64.2	63.4	62.8	62.6	62.4	62.2
85°	37.6	36.2	36.2	36.9	35.5	35.5	36.2
87.5°	21.4	21.3	20.7	20.8	21.3	20.8	20.9
90°	34.4	33.9	33.8	34.1	34.3	34.5	34.7
92.5°	32.8	32.9	32.9	33.0	33.0	33.1	33.1
95°	65.4	65.4	65.2	64.7	64.3	63.8	63.4
97.5°	110.1	110.1	110.1	110.0	110.0	109.9	109.9
100°	141.2	141.2	141.1	140.8	140.6	140.4	140.2
102.5°	175.2	175.4	175.4	175.2	174.9	174.7	174.5
105°	226.4	226.8	227.1	227.1	227.1	227.1	227.1
107.5°	281.0	281.1	280.7	279.7	278.6	277.6	276.6
110°	318.1	318.1	317.8	317.1	316.4	315.7	315.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	355.0	354.4	353.9	353.4	352.8	352.3	351.8
115°	412.5	412.3	411.8	411.2	410.5	409.8	409.1
117.5°	467.7	467.1	466.5	465.9	465.1	464.4	463.7
120°	505.3	505.3	504.9	504.2	503.6	502.9	502.2
122.5°	542.9	542.4	541.9	541.4	540.9	540.4	539.9
125°	599.4	598.7	598.2	598.0	597.8	597.5	597.3
127.5°	654.2	653.4	652.6	651.9	651.2	650.5	649.7
130°	692.2	691.7	690.9	690.0	689.1	688.2	687.3
132.5°	728.1	727.1	726.3	725.6	724.8	724.1	723.4
135°	782.8	782.5	782.1	781.4	780.7	780.1	779.4
137.5°	834.6	834.4	833.7	832.8	831.9	831.0	830.1
140°	869.4	869.4	869.0	868.1	867.2	866.3	865.4
142.5°	901.1	901.2	900.9	900.0	899.1	898.2	897.3
145°	948.9	949.1	948.8	947.9	947.0	946.0	945.1
147.5°	991.0	991.5	991.3	990.5	989.6	988.8	987.8
150°	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7
152.5°	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9
155°	1078.4	1079.5	1079.7	1079.1	1078.4	1077.7	1077.0
157.5°	1109.9	1111.5	1111.7	1110.6	1109.5	1108.4	1107.3
160°	1128.2	1129.5	1129.8	1128.9	1128.0	1127.1	1126.2
162.5°	1145.1	1146.7	1146.9	1145.8	1144.7	1143.6	1142.6
165°	1166.7	1168.3	1168.5	1167.4	1166.3	1165.2	1164.0
167.5°	1184.6	1186.1	1186.3	1185.2	1184.0	1182.8	1181.6
170°	1194.4	1196.0	1196.1	1194.7	1193.4	1191.9	1190.6
172.5°	1201.7	1203.3	1203.5	1202.0	1200.7	1199.3	1198.0
175°	1209.7	1211.2	1211.4	1210.0	1208.7	1207.3	1206.0
177.5°	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0

(END OF REPORT)