

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: P333323-927

Luminaire Tested: **S125DIP-S1270D1035U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333323-927
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: S125DIP-S1270D1035U927-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6943.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

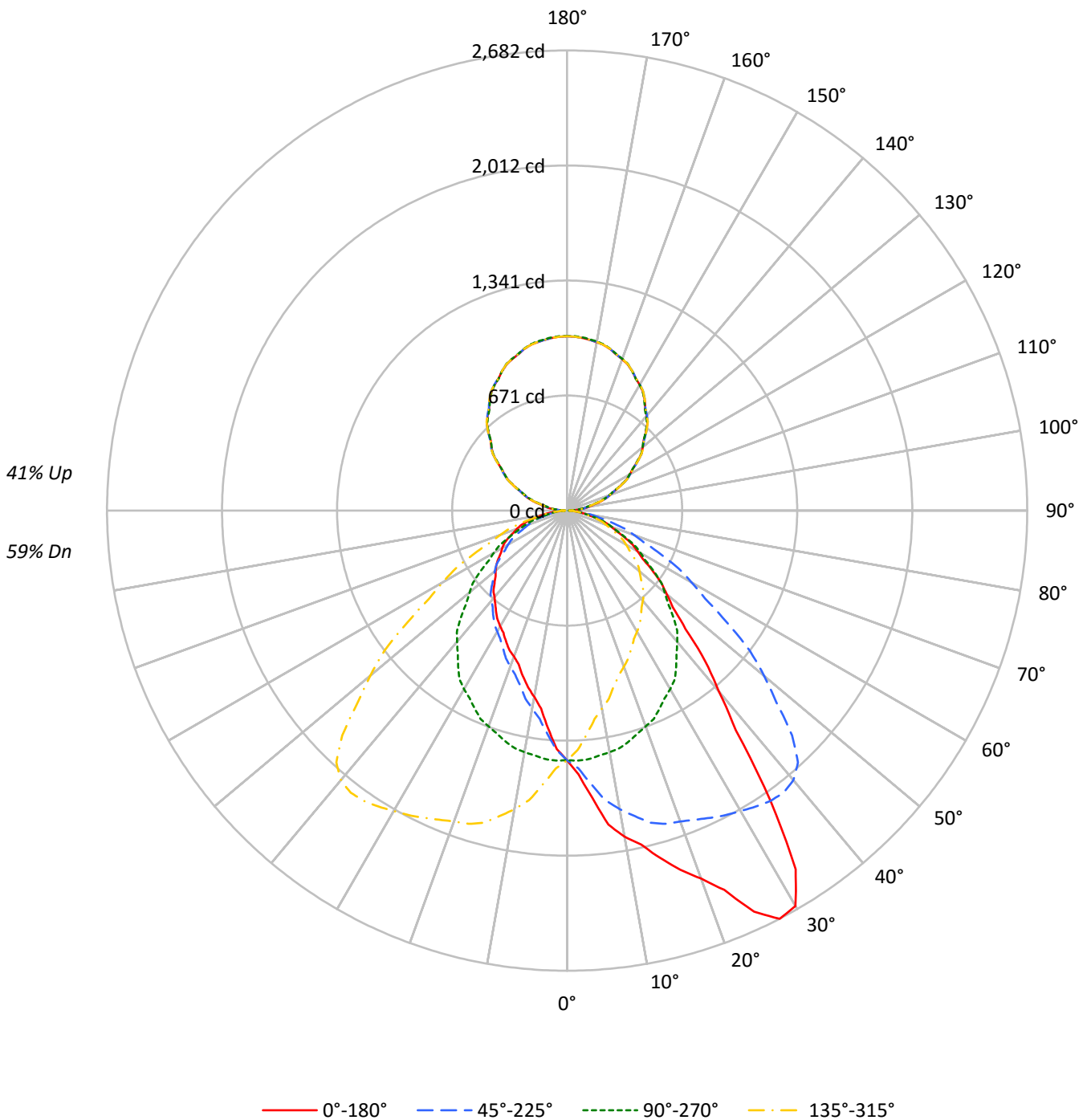
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	89	93	90	86	83	78	76	73	67	66	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	83	74	67	61	78	69	63	58	61	56	52	53	49	46	45	42	40	36
4	76	66	58	52	71	62	55	49	54	49	44	47	43	39	41	37	35	31
5	70	59	50	44	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	30	27	24
7	60	48	40	34	56	45	38	32	40	34	30	35	30	27	30	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	48	37	30	26	33	28	24	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9396	9396	9396	9396
5°	10881	9428	8255	9428
10°	12660	9379	7233	9379
15°	14014	9310	6672	9310
20°	15687	9201	6222	9201
25°	18377	9079	6002	9079
30°	19848	8957	5812	8957
35°	16320	8729	5687	8729
40°	11600	8413	5550	8413
45°	8912	7986	5471	7986
50°	7607	7458	5460	7458
55°	6773	6939	5507	6939
60°	6110	6373	5647	6373
65°	5644	5804	5793	5804
70°	5130	5212	5876	5212
75°	4531	4591	5827	4591
80°	3812	3745	5326	3745
85°	3016	2697	4305	2697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	2.0
10°-20°	417.0	6.0
20°-30°	677.1	9.8
30°-40°	826.0	11.9
40°-50°	751.4	10.8
50°-60°	598.5	8.6
60°-70°	416.9	6.0
70°-80°	222.3	3.2
80°-90°	58.3	0.8
90°-100°	68.1	1.0
100°-110°	201.0	2.9
110°-120°	340.5	4.9
120°-130°	448.1	6.5
130°-140°	502.1	7.2
140°-150°	492.1	7.1
150°-160°	413.3	6.0
160°-170°	274.7	4.0
170°-180°	96.1	1.4
0°-30°	1234.2	17.8
0°-40°	2060.2	29.7
0°-60°	3410.1	49.1
0°-90°	4107.7	59.2
90°-120°	609.5	8.8
90°-150°	2051.7	29.5
90°-180°	2836.0	40.8
0°-180°	6943.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1455	1455	1455	1455	1455	
5°	1678	1454	1273	1454	1678	169
15°	2096	1392	998	1392	2096	600
25°	2579	1274	842	1274	2579	1178
35°	2070	1107	721	1107	2070	1267
45°	976	874	599	874	976	781
55°	602	616	489	616	602	542
65°	369	380	379	380	369	367
75°	182	184	234	184	182	196
85°	41	36	58	36	41	47
90°	19	1	19	1	19	12
95°	68	51	68	51	68	69
105°	196	180	196	180	196	208
115°	344	341	344	341	344	340
125°	501	498	501	498	501	447
135°	649	647	649	647	649	501
145°	787	784	787	784	787	491
155°	897	897	897	897	897	413
165°	973	975	973	975	973	274
175°	1010	1014	1010	1014	1010	96
180°	1016	1016	1016	1016	1016	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1538.9	1536.9	1534.9	1531.0	1533.9	1525.5	1521.5	1514.7	1506.3	1503.3	1499.8
5°	1678.4	1681.5	1684.6	1671.7	1672.9	1664.2	1644.5	1628.4	1615.4	1598.8	1587.1
7.5°	1846.4	1839.1	1838.5	1830.1	1815.7	1804.0	1783.3	1756.8	1731.3	1702.2	1678.1
10°	1930.4	1931.0	1925.5	1915.6	1900.1	1889.0	1861.9	1835.9	1804.4	1767.4	1740.8
12.5°	1993.6	1996.2	1989.2	1975.9	1968.3	1943.4	1922.1	1891.3	1853.8	1824.2	1783.8
15°	2095.9	2089.1	2084.2	2067.4	2054.5	2028.5	1994.6	1962.5	1921.8	1884.0	1846.4
17.5°	2194.4	2199.9	2190.6	2175.4	2135.2	2104.9	2059.4	2015.3	1964.6	1914.1	1869.2
20°	2282.4	2287.3	2273.1	2246.5	2198.4	2168.1	2108.2	2051.4	1992.7	1927.9	1878.5
22.5°	2392.1	2388.1	2368.9	2328.5	2286.8	2230.9	2166.1	2096.8	2023.4	1950.1	1884.4
25°	2578.8	2552.8	2541.1	2491.1	2436.1	2354.0	2265.1	2163.8	2072.4	1975.5	1891.5
27.5°	2682.3	2674.1	2661.0	2626.2	2568.4	2480.6	2375.8	2252.3	2123.4	2001.1	1891.1
30°	2661.5	2662.8	2664.0	2652.9	2615.9	2549.7	2445.4	2312.6	2159.5	2021.8	1894.6
32.5°	2477.8	2500.2	2521.8	2547.2	2557.6	2544.8	2479.5	2359.6	2201.9	2045.5	1892.6
35°	2070.0	2076.7	2146.5	2215.7	2309.5	2382.4	2431.2	2378.1	2245.3	2065.6	1890.2
37.5°	1614.0	1647.3	1695.6	1773.8	1909.2	2030.5	2186.5	2258.3	2215.4	2072.2	1885.9
40°	1375.9	1406.8	1438.2	1517.9	1632.1	1779.1	1956.3	2107.6	2142.8	2051.4	1871.1
42.5°	1192.1	1216.6	1251.5	1311.4	1406.8	1537.0	1706.4	1904.1	2025.7	1991.2	1840.0
45°	975.7	991.1	1018.3	1065.9	1135.0	1236.9	1386.3	1602.5	1790.8	1853.2	1766.1
47.5°	835.1	835.0	856.1	889.0	938.9	1025.5	1136.0	1305.4	1506.5	1655.3	1648.5
50°	757.1	754.0	770.6	799.1	838.6	896.0	1001.6	1136.9	1330.2	1498.7	1545.6
52.5°	689.9	690.2	700.5	721.5	754.6	803.7	882.6	1004.5	1169.6	1342.6	1431.1
55°	601.5	599.0	610.7	625.0	649.0	681.1	737.9	831.2	965.2	1135.6	1250.5
57.5°	520.5	527.3	532.0	541.9	561.8	583.3	631.2	699.7	806.0	952.2	1073.6
60°	473.0	479.8	483.5	493.4	509.5	528.0	565.1	620.6	710.2	836.1	956.6
62.5°	430.6	435.9	437.0	446.0	459.1	477.1	506.3	552.9	623.7	733.9	851.8
65°	369.3	369.3	371.8	381.0	387.2	403.2	425.5	459.5	516.3	602.1	702.7
67.5°	310.2	313.2	312.6	316.6	322.3	334.9	350.8	378.8	420.9	483.5	564.0
70°	271.7	274.2	273.5	276.6	282.8	290.9	303.8	330.3	360.6	414.4	483.5
72.5°	237.1	238.1	236.5	240.6	244.3	251.4	265.8	280.0	308.2	353.6	410.4
75°	181.6	182.8	184.0	186.5	190.2	193.9	201.3	215.6	234.0	268.0	304.4
77.5°	136.1	133.7	136.7	136.3	138.5	141.3	147.8	155.3	170.6	192.0	220.2
80°	102.5	103.1	103.1	103.8	106.9	108.7	114.2	119.8	131.5	147.6	167.4
82.5°	74.9	76.4	75.5	76.6	79.1	80.5	83.6	88.2	95.0	107.6	121.9
85°	40.7	37.7	38.9	40.2	40.2	40.7	43.3	45.1	48.8	53.7	59.3
87.5°	15.7	16.6	17.0	16.8	17.2	17.0	18.9	18.7	20.0	21.3	23.1
90°	19.0	18.5	17.9	17.4	16.9	16.2	15.3	14.4	13.5	12.7	11.4
92.5°	37.3	36.9	36.5	36.2	35.8	35.0	33.8	32.7	31.5	30.3	28.8
95°	68.0	67.7	67.3	66.9	66.6	65.8	64.6	63.4	62.1	60.9	59.2
97.5°	103.1	102.9	102.7	102.5	102.3	101.6	100.4	99.3	98.2	97.0	94.5
100°	129.7	129.4	129.0	128.7	128.3	127.3	125.7	124.1	122.6	121.0	118.7
102.5°	156.3	155.8	155.3	154.8	154.3	153.2	151.5	149.7	148.1	146.3	145.1
105°	196.1	195.6	195.1	194.6	194.0	193.2	192.2	191.2	190.0	189.0	188.0
107.5°	236.9	237.0	237.0	237.0	237.1	236.9	236.3	235.8	235.3	234.7	233.9
110°	267.3	267.5	267.7	267.8	268.0	267.8	267.3	266.8	266.3	265.7	265.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	297.1	297.4	297.7	298.0	298.3	298.3	298.1	297.9	297.6	297.4	296.7
115°	344.0	344.2	344.4	344.5	344.8	344.9	345.1	345.2	345.5	345.6	345.2
117.5°	389.9	390.6	391.3	392.0	392.7	393.0	392.8	392.7	392.6	392.4	392.1
120°	421.5	422.2	422.9	423.7	424.4	424.7	424.7	424.7	424.7	424.7	424.5
122.5°	453.2	453.8	454.3	454.9	455.4	455.7	455.9	456.1	456.2	456.3	455.9
125°	500.7	500.8	501.0	501.1	501.3	501.6	501.9	502.3	502.6	503.0	502.8
127.5°	546.2	546.5	546.8	547.2	547.6	547.9	548.0	548.2	548.3	548.6	548.3
130°	576.6	576.9	577.3	577.6	578.0	578.2	578.4	578.5	578.8	578.9	578.5
132.5°	605.0	605.5	606.0	606.5	607.0	607.3	607.5	607.7	607.8	608.0	608.1
135°	649.3	650.0	650.7	651.4	652.1	652.4	652.4	652.4	652.4	652.4	652.3
137.5°	692.7	693.6	694.4	695.3	696.2	696.5	696.2	696.1	695.9	695.6	695.3
140°	720.5	721.4	722.2	723.1	724.0	724.3	723.9	723.6	723.2	722.9	722.3
142.5°	747.0	748.0	748.8	749.7	750.6	750.9	750.7	750.5	750.3	750.0	749.4
145°	787.0	787.4	788.0	788.5	789.0	789.3	789.3	789.3	789.3	789.3	788.8
147.5°	820.9	822.1	823.3	824.5	825.7	826.1	825.7	825.2	824.8	824.4	823.9
150°	846.2	846.6	846.9	847.3	847.6	847.8	847.8	847.8	847.8	847.8	847.1
152.5°	867.1	867.8	868.4	869.0	869.7	869.7	869.3	868.9	868.5	868.1	867.8
155°	896.8	897.7	898.6	899.5	900.4	900.5	899.8	899.0	898.3	897.6	897.5
157.5°	921.7	922.8	924.0	925.2	926.3	926.5	925.8	925.1	924.5	923.8	923.6
160°	938.7	939.7	940.6	941.4	942.3	942.4	941.7	941.0	940.2	939.5	939.4
162.5°	953.3	954.3	955.4	956.4	957.4	957.5	956.6	955.8	955.0	954.1	954.1
165°	972.8	973.8	974.9	976.0	977.0	977.2	976.4	975.7	975.1	974.4	974.1
167.5°	988.2	989.4	990.5	991.6	992.6	992.7	991.6	990.5	989.5	988.4	988.4
170°	996.5	997.8	998.9	1000.2	1001.4	1001.5	1000.4	999.4	998.4	997.3	997.3
172.5°	1003.5	1004.6	1005.7	1006.7	1007.8	1007.8	1006.8	1005.8	1004.6	1003.6	1003.6
175°	1010.0	1011.1	1012.4	1013.7	1014.9	1014.9	1013.9	1012.9	1011.8	1010.7	1010.7
177.5°	1013.8	1014.7	1015.7	1016.7	1017.7	1017.7	1016.9	1016.1	1015.3	1014.4	1014.5
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1496.9	1493.4	1489.5	1482.6	1474.2	1469.7	1462.8	1458.3	1449.5	1442.0	1434.2
5°	1572.8	1556.8	1542.0	1522.8	1501.8	1488.2	1472.2	1454.3	1435.8	1416.6	1395.6
7.5°	1651.5	1623.1	1592.2	1559.0	1526.5	1496.6	1468.1	1440.0	1413.9	1382.3	1355.5
10°	1704.4	1668.6	1630.2	1585.2	1541.3	1503.1	1464.1	1430.2	1395.6	1358.5	1325.8
12.5°	1757.2	1709.5	1655.4	1605.9	1553.2	1507.0	1461.2	1417.8	1374.4	1333.3	1295.2
15°	1794.5	1752.5	1702.5	1632.1	1572.8	1509.3	1448.7	1392.5	1340.1	1294.3	1246.2
17.5°	1819.1	1765.0	1711.3	1643.7	1566.1	1494.9	1426.3	1362.0	1302.8	1244.9	1198.5
20°	1823.5	1768.0	1711.7	1645.7	1566.1	1484.5	1415.9	1338.8	1275.2	1215.3	1158.5
22.5°	1822.1	1759.0	1698.0	1629.9	1552.2	1477.1	1394.2	1315.6	1246.5	1187.6	1128.3
25°	1808.1	1740.8	1664.2	1595.7	1519.1	1439.5	1355.5	1274.0	1203.6	1136.2	1077.6
27.5°	1796.5	1709.2	1622.5	1542.5	1468.6	1395.6	1315.2	1231.7	1153.7	1085.4	1030.2
30°	1782.2	1686.5	1588.9	1505.5	1429.6	1358.5	1282.6	1201.1	1119.6	1052.9	993.6
32.5°	1769.3	1657.8	1554.8	1464.0	1383.6	1314.5	1244.5	1167.0	1087.0	1019.3	960.0
35°	1744.5	1615.4	1497.5	1395.0	1309.2	1238.1	1179.5	1107.2	1033.7	968.3	911.5
37.5°	1713.0	1559.9	1433.3	1325.8	1231.7	1156.9	1102.2	1046.8	976.3	913.2	861.8
40°	1688.3	1520.4	1386.3	1276.4	1178.8	1101.1	1050.4	997.9	939.3	880.6	826.2
42.5°	1657.2	1484.8	1338.9	1220.6	1124.0	1048.2	995.1	950.5	898.7	844.1	793.6
45°	1600.0	1420.3	1262.2	1135.0	1037.4	962.7	907.8	874.4	835.5	783.6	741.0
47.5°	1515.9	1342.8	1179.3	1048.1	947.4	878.1	826.6	794.6	767.2	728.6	690.0
50°	1441.3	1285.1	1119.6	989.3	888.6	818.8	771.3	742.3	718.8	689.1	656.4
52.5°	1357.8	1212.4	1060.8	932.0	832.3	763.5	716.9	691.4	671.8	650.6	618.4
55°	1225.2	1101.7	960.8	838.6	746.6	679.3	638.5	616.3	600.2	584.2	564.4
57.5°	1079.0	982.5	857.8	746.0	661.2	600.0	562.0	540.3	527.8	519.6	507.9
60°	976.3	893.6	786.1	684.2	601.5	547.2	510.1	493.4	482.9	476.1	467.5
62.5°	881.0	813.0	713.5	620.5	548.1	496.7	463.7	447.4	437.4	434.1	427.0
65°	740.4	687.9	605.8	528.6	466.8	423.0	395.2	379.8	373.6	369.9	370.5
67.5°	602.0	570.0	504.0	438.2	388.9	352.1	329.9	318.1	315.0	310.0	309.9
70°	517.5	493.4	437.8	380.4	336.5	308.2	288.4	276.0	272.9	270.5	269.9
72.5°	442.9	421.8	373.6	327.6	288.1	263.2	246.9	239.5	234.4	232.9	232.8
75°	332.9	321.2	282.8	246.4	219.2	201.9	190.8	184.0	180.3	179.7	180.3
77.5°	236.6	226.4	202.1	176.3	159.1	146.0	136.6	134.3	130.1	130.2	129.5
80°	177.8	171.0	155.6	135.2	121.0	110.0	105.0	100.7	99.4	97.6	99.4
82.5°	129.0	121.7	111.1	98.2	86.4	79.8	74.9	73.5	72.7	71.9	72.2
85°	63.6	64.2	58.1	48.2	43.3	39.5	36.4	36.4	35.8	35.2	35.8
87.5°	23.8	22.6	20.3	18.5	15.8	14.0	13.3	13.5	12.3	12.1	12.8
90°	10.2	9.0	7.8	6.4	5.0	3.6	2.2	0.8	2.2	3.6	5.0
92.5°	27.3	25.8	24.3	23.1	22.1	21.1	20.1	19.2	20.1	21.1	22.1
95°	57.4	55.6	53.9	52.8	52.4	52.1	51.7	51.4	51.7	52.1	52.4
97.5°	92.1	89.7	87.3	86.0	85.9	85.7	85.6	85.4	85.6	85.7	85.9
100°	116.5	114.2	111.9	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7
102.5°	144.0	142.8	141.6	140.8	140.1	139.3	138.6	137.9	138.6	139.3	140.1
105°	186.9	185.8	184.8	183.9	183.0	182.0	181.2	180.3	181.2	182.0	183.0
107.5°	233.1	232.3	231.5	230.7	229.8	228.9	228.0	227.1	228.0	228.9	229.8
110°	264.7	264.1	263.6	262.9	262.1	261.2	260.3	259.4	260.3	261.2	262.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	296.0	295.4	294.7	294.1	293.7	293.2	292.8	292.3	292.8	293.2	293.7
115°	344.9	344.5	344.2	343.6	343.0	342.3	341.6	340.9	341.6	342.3	343.0
117.5°	391.8	391.5	391.2	390.9	390.5	390.2	389.9	389.6	389.9	390.2	390.5
120°	424.4	424.1	424.0	423.5	422.6	421.7	420.8	419.9	420.8	421.7	422.6
122.5°	455.4	455.0	454.5	454.2	453.8	453.5	453.2	452.9	453.2	453.5	453.8
125°	502.6	502.5	502.3	501.7	500.7	499.6	498.5	497.5	498.5	499.6	500.7
127.5°	548.1	548.0	547.7	547.3	546.7	546.1	545.5	544.9	545.5	546.1	546.7
130°	578.2	577.9	577.5	576.9	576.0	575.1	574.3	573.4	574.3	575.1	576.0
132.5°	608.2	608.2	608.3	607.6	606.2	604.8	603.3	601.8	603.3	604.8	606.2
135°	652.1	652.0	651.8	651.2	650.1	649.0	648.0	647.0	648.0	649.0	650.1
137.5°	694.9	694.5	694.1	693.4	692.4	691.3	690.3	689.4	690.3	691.3	692.4
140°	721.8	721.3	720.7	720.0	719.1	718.3	717.4	716.5	717.4	718.3	719.1
142.5°	748.8	748.1	747.4	746.7	745.9	745.2	744.5	743.7	744.5	745.2	745.9
145°	788.2	787.7	787.2	786.6	785.8	785.1	784.5	783.8	784.5	785.1	785.8
147.5°	823.6	823.2	822.8	822.3	822.0	821.6	821.2	820.8	821.2	821.6	822.0
150°	846.4	845.7	845.0	844.8	844.9	845.1	845.3	845.4	845.3	845.1	844.9
152.5°	867.5	867.2	867.0	866.6	866.4	866.2	865.9	865.7	865.9	866.2	866.4
155°	897.3	897.1	896.9	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
157.5°	923.4	923.2	923.1	923.1	923.5	923.9	924.3	924.7	924.3	923.9	923.5
160°	939.2	939.1	938.9	939.1	939.5	940.1	940.6	941.1	940.6	940.1	939.5
162.5°	954.0	954.0	953.9	954.2	954.5	954.9	955.3	955.7	955.3	954.9	954.5
165°	974.0	973.8	973.7	973.8	974.1	974.5	974.8	975.2	974.8	974.5	974.1
167.5°	988.4	988.4	988.4	988.8	989.5	990.2	990.9	991.6	990.9	990.2	989.5
170°	997.3	997.3	997.3	997.7	998.4	999.0	999.7	1000.4	999.7	999.0	998.4
172.5°	1003.6	1003.6	1003.6	1004.0	1004.6	1005.4	1006.1	1006.8	1006.1	1005.4	1004.6
175°	1010.7	1010.7	1010.7	1011.1	1011.8	1012.5	1013.2	1013.9	1013.2	1012.5	1011.8
177.5°	1014.6	1014.8	1014.9	1015.3	1015.8	1016.4	1017.0	1017.6	1017.0	1016.4	1015.8
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1429.7	1424.3	1419.8	1409.9	1404.5	1397.1	1391.2	1397.6	1390.7	1393.6	1389.2
5°	1385.1	1367.8	1355.5	1337.5	1322.2	1307.9	1297.4	1295.5	1290.6	1288.2	1280.7
7.5°	1331.5	1309.9	1288.6	1265.2	1245.4	1225.3	1212.4	1201.8	1194.8	1185.5	1179.2
10°	1299.9	1270.9	1246.2	1217.7	1193.0	1171.5	1154.1	1145.5	1137.5	1125.8	1121.4
12.5°	1260.8	1230.8	1200.7	1170.4	1146.6	1122.5	1107.7	1094.6	1089.1	1075.9	1074.5
15°	1214.0	1168.9	1139.3	1108.4	1075.7	1056.0	1043.6	1029.4	1023.3	1014.0	1007.2
17.5°	1158.2	1117.9	1080.9	1048.9	1020.9	1004.2	988.9	979.1	968.5	962.5	951.3
20°	1117.7	1079.4	1042.4	1008.4	986.8	967.7	955.3	946.0	934.9	931.8	920.8
22.5°	1083.6	1041.4	1005.8	977.3	953.7	932.1	918.8	912.4	904.8	895.3	893.0
25°	1028.2	984.4	954.1	925.7	904.7	884.9	875.7	867.6	860.2	853.4	851.0
27.5°	980.2	941.1	905.1	879.5	861.2	843.2	835.0	825.3	819.8	814.4	807.7
30°	946.7	906.5	875.0	850.3	830.6	814.5	805.9	799.1	794.2	789.2	785.5
32.5°	912.1	874.9	844.4	820.2	800.4	788.3	780.7	775.9	770.4	764.5	759.8
35°	866.4	825.6	796.0	775.0	759.5	750.3	741.6	737.3	731.2	731.2	726.2
37.5°	814.9	779.7	753.5	734.4	720.5	712.3	702.9	699.9	695.9	693.3	691.7
40°	784.3	751.5	726.8	707.7	692.8	686.0	678.7	673.8	671.2	668.1	666.9
42.5°	752.7	721.4	697.7	680.0	667.2	661.4	654.4	651.0	646.0	642.0	641.3
45°	704.6	674.3	652.8	638.5	627.4	620.6	616.3	608.9	606.4	601.5	600.9
47.5°	659.0	630.0	608.8	597.1	587.4	581.9	575.0	567.6	564.8	562.3	562.1
50°	625.0	598.4	578.6	567.5	558.3	550.2	543.4	538.4	536.6	536.6	537.9
52.5°	590.3	567.8	551.0	537.3	528.6	520.1	513.8	510.8	507.9	511.0	513.2
55°	539.7	516.9	504.5	491.5	482.9	473.0	469.9	468.7	466.8	471.8	474.3
57.5°	486.1	470.1	455.6	442.8	435.0	429.3	425.1	424.4	427.9	430.2	438.2
60°	452.0	433.5	420.6	410.7	401.4	397.7	396.5	395.2	397.7	404.5	414.9
62.5°	414.5	399.4	385.5	378.0	371.2	365.1	364.8	365.6	370.5	378.3	388.8
65°	359.4	346.4	337.2	328.5	323.0	319.2	320.5	323.0	328.5	339.1	350.8
67.5°	303.5	294.5	286.3	279.2	273.9	273.9	275.2	278.8	285.4	297.5	308.2
70°	267.4	257.5	250.7	247.6	243.3	240.8	244.5	250.7	256.3	267.4	276.6
72.5°	231.3	222.9	217.6	215.6	213.7	211.7	212.9	219.6	227.1	238.2	249.0
75°	177.8	174.8	171.0	168.6	166.8	167.9	169.2	175.4	181.6	193.3	205.7
77.5°	129.8	126.6	124.4	123.7	122.8	123.3	126.8	131.4	137.4	146.0	155.3
80°	98.2	97.0	95.7	95.1	95.1	95.7	100.7	103.8	109.3	117.3	124.8
82.5°	71.5	70.7	70.5	70.4	70.9	71.0	74.0	78.0	82.6	88.6	95.1
85°	37.7	36.4	38.3	38.9	37.7	39.5	40.7	43.3	45.1	48.2	51.3
87.5°	13.6	14.9	14.7	15.4	15.6	16.9	16.6	18.7	19.9	21.0	20.7
90°	6.4	7.8	9.0	10.2	11.4	12.7	13.5	14.4	15.3	16.2	16.9
92.5°	23.1	24.3	25.8	27.3	28.8	30.3	31.5	32.7	33.8	35.0	35.8
95°	52.8	53.9	55.6	57.4	59.2	60.9	62.1	63.4	64.6	65.8	66.6
97.5°	86.0	87.3	89.7	92.1	94.5	97.0	98.2	99.3	100.4	101.6	102.3
100°	110.7	111.9	114.2	116.5	118.7	121.0	122.6	124.1	125.7	127.3	128.3
102.5°	140.8	141.6	142.8	144.0	145.1	146.3	148.1	149.7	151.5	153.2	154.3
105°	183.9	184.8	185.8	186.9	188.0	189.0	190.0	191.2	192.2	193.2	194.0
107.5°	230.7	231.5	232.3	233.1	233.9	234.7	235.3	235.8	236.3	236.9	237.1
110°	262.9	263.6	264.1	264.7	265.2	265.7	266.3	266.8	267.3	267.8	268.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	294.1	294.7	295.4	296.0	296.7	297.4	297.6	297.9	298.1	298.3	298.3
115°	343.6	344.2	344.5	344.9	345.2	345.6	345.5	345.2	345.1	344.9	344.8
117.5°	390.9	391.2	391.5	391.8	392.1	392.4	392.6	392.7	392.8	393.0	392.7
120°	423.5	424.0	424.1	424.4	424.5	424.7	424.7	424.7	424.7	424.7	424.4
122.5°	454.2	454.5	455.0	455.4	455.9	456.3	456.2	456.1	455.9	455.7	455.4
125°	501.7	502.3	502.5	502.6	502.8	503.0	502.6	502.3	501.9	501.6	501.3
127.5°	547.3	547.7	548.0	548.1	548.3	548.6	548.3	548.2	548.0	547.9	547.6
130°	576.9	577.5	577.9	578.2	578.5	578.9	578.8	578.5	578.4	578.2	578.0
132.5°	607.6	608.3	608.2	608.2	608.1	608.0	607.8	607.7	607.5	607.3	607.0
135°	651.2	651.8	652.0	652.1	652.3	652.4	652.4	652.4	652.4	652.4	652.1
137.5°	693.4	694.1	694.5	694.9	695.3	695.6	695.9	696.1	696.2	696.5	696.2
140°	720.0	720.7	721.3	721.8	722.3	722.9	723.2	723.6	723.9	724.3	724.0
142.5°	746.7	747.4	748.1	748.8	749.4	750.0	750.3	750.5	750.7	750.9	750.6
145°	786.6	787.2	787.7	788.2	788.8	789.3	789.3	789.3	789.3	789.3	789.0
147.5°	822.3	822.8	823.2	823.6	823.9	824.4	824.8	825.2	825.7	826.1	825.7
150°	844.8	845.0	845.7	846.4	847.1	847.8	847.8	847.8	847.8	847.8	847.6
152.5°	866.6	867.0	867.2	867.5	867.8	868.1	868.5	868.9	869.3	869.7	869.7
155°	896.8	896.9	897.1	897.3	897.5	897.6	898.3	899.0	899.8	900.5	900.4
157.5°	923.1	923.1	923.2	923.4	923.6	923.8	924.5	925.1	925.8	926.5	926.3
160°	939.1	938.9	939.1	939.2	939.4	939.5	940.2	941.0	941.7	942.4	942.3
162.5°	954.2	953.9	954.0	954.0	954.1	954.1	955.0	955.8	956.6	957.5	957.4
165°	973.8	973.7	973.8	974.0	974.1	974.4	975.1	975.7	976.4	977.2	977.0
167.5°	988.8	988.4	988.4	988.4	988.4	988.4	989.5	990.5	991.6	992.7	992.6
170°	997.7	997.3	997.3	997.3	997.3	997.3	998.4	999.4	1000.4	1001.5	1001.4
172.5°	1004.0	1003.6	1003.6	1003.6	1003.6	1003.6	1004.6	1005.8	1006.8	1007.8	1007.8
175°	1011.1	1010.7	1010.7	1010.7	1010.7	1010.7	1011.8	1012.9	1013.9	1014.9	1014.9
177.5°	1015.3	1014.9	1014.8	1014.6	1014.5	1014.4	1015.3	1016.1	1016.9	1017.7	1017.7
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1386.2	1389.6	1386.7	1390.7	1386.7	1389.6	1386.2	1389.2	1393.6	1390.7	1397.6
5°	1277.6	1272.1	1275.8	1273.4	1275.8	1272.1	1277.6	1280.7	1288.2	1290.6	1295.5
7.5°	1177.3	1172.0	1166.0	1163.2	1166.0	1172.0	1177.3	1179.2	1185.5	1194.8	1201.8
10°	1114.6	1107.9	1107.2	1102.9	1107.2	1107.9	1114.6	1121.4	1125.8	1137.5	1145.5
12.5°	1068.7	1062.4	1055.3	1053.5	1055.3	1062.4	1068.7	1074.5	1075.9	1089.1	1094.6
15°	1003.5	998.5	994.2	997.9	994.2	998.5	1003.5	1007.2	1014.0	1023.3	1029.4
17.5°	949.3	945.2	944.4	939.8	944.4	945.2	949.3	951.3	962.5	968.5	979.1
20°	915.2	912.1	913.3	905.3	913.3	912.1	915.2	920.8	931.8	934.9	946.0
22.5°	888.0	881.9	881.2	879.6	881.2	881.9	888.0	893.0	895.3	904.8	912.4
25°	845.4	842.3	839.2	842.3	839.2	842.3	845.4	851.0	853.4	860.2	867.6
27.5°	808.2	804.5	803.7	804.0	803.7	804.5	808.2	807.7	814.4	819.8	825.3
30°	785.5	779.3	779.9	779.3	779.9	779.3	785.5	785.5	789.2	794.2	799.1
32.5°	760.8	756.6	755.7	754.6	755.7	756.6	760.8	759.8	764.5	770.4	775.9
35°	724.4	724.4	721.3	721.3	721.3	724.4	724.4	726.2	731.2	731.2	737.3
37.5°	690.1	689.5	687.7	687.9	687.7	689.5	690.1	691.7	693.3	695.9	699.9
40°	664.5	663.8	661.9	658.3	661.9	663.8	664.5	666.9	668.1	671.2	673.8
42.5°	639.8	637.6	636.8	635.6	636.8	637.6	639.8	641.3	642.0	646.0	651.0
45°	600.9	600.9	599.6	599.0	599.6	600.9	600.9	600.9	601.5	606.4	608.9
47.5°	563.1	564.2	566.5	566.2	566.5	564.2	563.1	562.1	562.3	564.8	567.6
50°	540.3	541.0	542.8	543.4	542.8	541.0	540.3	537.9	536.6	536.6	538.4
52.5°	515.2	518.7	521.1	520.7	521.1	518.7	515.2	513.2	511.0	507.9	510.8
55°	479.8	484.1	488.5	489.1	488.5	484.1	479.8	474.3	471.8	466.8	468.7
57.5°	444.9	450.9	455.5	456.9	455.5	450.9	444.9	438.2	430.2	427.9	424.4
60°	421.1	429.2	434.7	437.2	434.7	429.2	421.1	414.9	404.5	397.7	395.2
62.5°	398.4	407.4	413.0	413.5	413.0	407.4	398.4	388.8	378.3	370.5	365.6
65°	361.2	370.5	375.4	379.1	375.4	370.5	361.2	350.8	339.1	328.5	323.0
67.5°	321.2	330.5	336.0	338.9	336.0	330.5	321.2	308.2	297.5	285.4	278.8
70°	292.1	301.3	308.8	311.2	308.8	301.3	292.1	276.6	267.4	256.3	250.7
72.5°	263.4	271.7	277.7	280.6	277.7	271.7	263.4	249.0	238.2	227.1	219.6
75°	213.7	224.7	230.4	233.5	230.4	224.7	213.7	205.7	193.3	181.6	175.4
77.5°	164.8	174.9	178.2	179.8	178.2	174.9	164.8	155.3	146.0	137.4	131.4
80°	132.1	138.3	142.7	143.2	142.7	138.3	132.1	124.8	117.3	109.3	103.8
82.5°	101.6	106.7	108.1	109.6	108.1	106.7	101.6	95.1	88.6	82.6	78.0
85°	55.6	58.1	58.7	58.1	58.7	58.1	55.6	51.3	48.2	45.1	43.3
87.5°	21.8	21.4	21.5	22.6	21.5	21.4	21.8	20.7	21.0	19.9	18.7
90°	17.4	17.9	18.5	19.0	18.5	17.9	17.4	16.9	16.2	15.3	14.4
92.5°	36.2	36.5	36.9	37.3	36.9	36.5	36.2	35.8	35.0	33.8	32.7
95°	66.9	67.3	67.7	68.0	67.7	67.3	66.9	66.6	65.8	64.6	63.4
97.5°	102.5	102.7	102.9	103.1	102.9	102.7	102.5	102.3	101.6	100.4	99.3
100°	128.7	129.0	129.4	129.7	129.4	129.0	128.7	128.3	127.3	125.7	124.1
102.5°	154.8	155.3	155.8	156.3	155.8	155.3	154.8	154.3	153.2	151.5	149.7
105°	194.6	195.1	195.6	196.1	195.6	195.1	194.6	194.0	193.2	192.2	191.2
107.5°	237.0	237.0	237.0	236.9	237.0	237.0	237.0	237.1	236.9	236.3	235.8
110°	267.8	267.7	267.5	267.3	267.5	267.7	267.8	268.0	267.8	267.3	266.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	298.0	297.7	297.4	297.1	297.4	297.7	298.0	298.3	298.3	298.1	297.9
115°	344.5	344.4	344.2	344.0	344.2	344.4	344.5	344.8	344.9	345.1	345.2
117.5°	392.0	391.3	390.6	389.9	390.6	391.3	392.0	392.7	393.0	392.8	392.7
120°	423.7	422.9	422.2	421.5	422.2	422.9	423.7	424.4	424.7	424.7	424.7
122.5°	454.9	454.3	453.8	453.2	453.8	454.3	454.9	455.4	455.7	455.9	456.1
125°	501.1	501.0	500.8	500.7	500.8	501.0	501.1	501.3	501.6	501.9	502.3
127.5°	547.2	546.8	546.5	546.2	546.5	546.8	547.2	547.6	547.9	548.0	548.2
130°	577.6	577.3	576.9	576.6	576.9	577.3	577.6	578.0	578.2	578.4	578.5
132.5°	606.5	606.0	605.5	605.0	605.5	606.0	606.5	607.0	607.3	607.5	607.7
135°	651.4	650.7	650.0	649.3	650.0	650.7	651.4	652.1	652.4	652.4	652.4
137.5°	695.3	694.4	693.6	692.7	693.6	694.4	695.3	696.2	696.5	696.2	696.1
140°	723.1	722.2	721.4	720.5	721.4	722.2	723.1	724.0	724.3	723.9	723.6
142.5°	749.7	748.8	748.0	747.0	748.0	748.8	749.7	750.6	750.9	750.7	750.5
145°	788.5	788.0	787.4	787.0	787.4	788.0	788.5	789.0	789.3	789.3	789.3
147.5°	824.5	823.3	822.1	820.9	822.1	823.3	824.5	825.7	826.1	825.7	825.2
150°	847.3	846.9	846.6	846.2	846.6	846.9	847.3	847.6	847.8	847.8	847.8
152.5°	869.0	868.4	867.8	867.1	867.8	868.4	869.0	869.7	869.7	869.3	868.9
155°	899.5	898.6	897.7	896.8	897.7	898.6	899.5	900.4	900.5	899.8	899.0
157.5°	925.2	924.0	922.8	921.7	922.8	924.0	925.2	926.3	926.5	925.8	925.1
160°	941.4	940.6	939.7	938.7	939.7	940.6	941.4	942.3	942.4	941.7	941.0
162.5°	956.4	955.4	954.3	953.3	954.3	955.4	956.4	957.4	957.5	956.6	955.8
165°	976.0	974.9	973.8	972.8	973.8	974.9	976.0	977.0	977.2	976.4	975.7
167.5°	991.6	990.5	989.4	988.2	989.4	990.5	991.6	992.6	992.7	991.6	990.5
170°	1000.2	998.9	997.8	996.5	997.8	998.9	1000.2	1001.4	1001.5	1000.4	999.4
172.5°	1006.7	1005.7	1004.6	1003.5	1004.6	1005.7	1006.7	1007.8	1007.8	1006.8	1005.8
175°	1013.7	1012.4	1011.1	1010.0	1011.1	1012.4	1013.7	1014.9	1014.9	1013.9	1012.9
177.5°	1016.7	1015.7	1014.7	1013.8	1014.7	1015.7	1016.7	1017.7	1017.7	1016.9	1016.1
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1391.2	1397.1	1404.5	1409.9	1419.8	1424.3	1429.7	1434.2	1442.0	1449.5	1458.3
5°	1297.4	1307.9	1322.2	1337.5	1355.5	1367.8	1385.1	1395.6	1416.6	1435.8	1454.3
7.5°	1212.4	1225.3	1245.4	1265.2	1288.6	1309.9	1331.5	1355.5	1382.3	1413.9	1440.0
10°	1154.1	1171.5	1193.0	1217.7	1246.2	1270.9	1299.9	1325.8	1358.5	1395.6	1430.2
12.5°	1107.7	1122.5	1146.6	1170.4	1200.7	1230.8	1260.8	1295.2	1333.3	1374.4	1417.8
15°	1043.6	1056.0	1075.7	1108.4	1139.3	1168.9	1214.0	1246.2	1294.3	1340.1	1392.5
17.5°	988.9	1004.2	1020.9	1048.9	1080.9	1117.9	1158.2	1198.5	1244.9	1302.8	1362.0
20°	955.3	967.7	986.8	1008.4	1042.4	1079.4	1117.7	1158.5	1215.3	1275.2	1338.8
22.5°	918.8	932.1	953.7	977.3	1005.8	1041.4	1083.6	1128.3	1187.6	1246.5	1315.6
25°	875.7	884.9	904.7	925.7	954.1	984.4	1028.2	1077.6	1136.2	1203.6	1274.0
27.5°	835.0	843.2	861.2	879.5	905.1	941.1	980.2	1030.2	1085.4	1153.7	1231.7
30°	805.9	814.5	830.6	850.3	875.0	906.5	946.7	993.6	1052.9	1119.6	1201.1
32.5°	780.7	788.3	800.4	820.2	844.4	874.9	912.1	960.0	1019.3	1087.0	1167.0
35°	741.6	750.3	759.5	775.0	796.0	825.6	866.4	911.5	968.3	1033.7	1107.2
37.5°	702.9	712.3	720.5	734.4	753.5	779.7	814.9	861.8	913.2	976.3	1046.8
40°	678.7	686.0	692.8	707.7	726.8	751.5	784.3	826.2	880.6	939.3	997.9
42.5°	654.4	661.4	667.2	680.0	697.7	721.4	752.7	793.6	844.1	898.7	950.5
45°	616.3	620.6	627.4	638.5	652.8	674.3	704.6	741.0	783.6	835.5	874.4
47.5°	575.0	581.9	587.4	597.1	608.8	630.0	659.0	690.0	728.6	767.2	794.6
50°	543.4	550.2	558.3	567.5	578.6	598.4	625.0	656.4	689.1	718.8	742.3
52.5°	513.8	520.1	528.6	537.3	551.0	567.8	590.3	618.4	650.6	671.8	691.4
55°	469.9	473.0	482.9	491.5	504.5	516.9	539.7	564.4	584.2	600.2	616.3
57.5°	425.1	429.3	435.0	442.8	455.6	470.1	486.1	507.9	519.6	527.8	540.3
60°	396.5	397.7	401.4	410.7	420.6	433.5	452.0	467.5	476.1	482.9	493.4
62.5°	364.8	365.1	371.2	378.0	385.5	399.4	414.5	427.0	434.1	437.4	447.4
65°	320.5	319.2	323.0	328.5	337.2	346.4	359.4	370.5	369.9	373.6	379.8
67.5°	275.2	273.9	273.9	279.2	286.3	294.5	303.5	309.9	310.0	315.0	318.1
70°	244.5	240.8	243.3	247.6	250.7	257.5	267.4	269.9	270.5	272.9	276.0
72.5°	212.9	211.7	213.7	215.6	217.6	222.9	231.3	232.8	232.9	234.4	239.5
75°	169.2	167.9	166.8	168.6	171.0	174.8	177.8	180.3	179.7	180.3	184.0
77.5°	126.8	123.3	122.8	123.7	124.4	126.6	129.8	129.5	130.2	130.1	134.3
80°	100.7	95.7	95.1	95.1	95.7	97.0	98.2	99.4	97.6	99.4	100.7
82.5°	74.0	71.0	70.9	70.4	70.5	70.7	71.5	72.2	71.9	72.7	73.5
85°	40.7	39.5	37.7	38.9	38.3	36.4	37.7	35.8	35.2	35.8	36.4
87.5°	16.6	16.9	15.6	15.4	14.7	14.9	13.6	12.8	12.1	12.3	13.5
90°	13.5	12.7	11.4	10.2	9.0	7.8	6.4	5.0	3.6	2.2	0.8
92.5°	31.5	30.3	28.8	27.3	25.8	24.3	23.1	22.1	21.1	20.1	19.2
95°	62.1	60.9	59.2	57.4	55.6	53.9	52.8	52.4	52.1	51.7	51.4
97.5°	98.2	97.0	94.5	92.1	89.7	87.3	86.0	85.9	85.7	85.6	85.4
100°	122.6	121.0	118.7	116.5	114.2	111.9	110.7	110.7	110.7	110.7	110.7
102.5°	148.1	146.3	145.1	144.0	142.8	141.6	140.8	140.1	139.3	138.6	137.9
105°	190.0	189.0	188.0	186.9	185.8	184.8	183.9	183.0	182.0	181.2	180.3
107.5°	235.3	234.7	233.9	233.1	232.3	231.5	230.7	229.8	228.9	228.0	227.1
110°	266.3	265.7	265.2	264.7	264.1	263.6	262.9	262.1	261.2	260.3	259.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	297.6	297.4	296.7	296.0	295.4	294.7	294.1	293.7	293.2	292.8	292.3
115°	345.5	345.6	345.2	344.9	344.5	344.2	343.6	343.0	342.3	341.6	340.9
117.5°	392.6	392.4	392.1	391.8	391.5	391.2	390.9	390.5	390.2	389.9	389.6
120°	424.7	424.7	424.5	424.4	424.1	424.0	423.5	422.6	421.7	420.8	419.9
122.5°	456.2	456.3	455.9	455.4	455.0	454.5	454.2	453.8	453.5	453.2	452.9
125°	502.6	503.0	502.8	502.6	502.5	502.3	501.7	500.7	499.6	498.5	497.5
127.5°	548.3	548.6	548.3	548.1	548.0	547.7	547.3	546.7	546.1	545.5	544.9
130°	578.8	578.9	578.5	578.2	577.9	577.5	576.9	576.0	575.1	574.3	573.4
132.5°	607.8	608.0	608.1	608.2	608.2	608.3	607.6	606.2	604.8	603.3	601.8
135°	652.4	652.4	652.3	652.1	652.0	651.8	651.2	650.1	649.0	648.0	647.0
137.5°	695.9	695.6	695.3	694.9	694.5	694.1	693.4	692.4	691.3	690.3	689.4
140°	723.2	722.9	722.3	721.8	721.3	720.7	720.0	719.1	718.3	717.4	716.5
142.5°	750.3	750.0	749.4	748.8	748.1	747.4	746.7	745.9	745.2	744.5	743.7
145°	789.3	789.3	788.8	788.2	787.7	787.2	786.6	785.8	785.1	784.5	783.8
147.5°	824.8	824.4	823.9	823.6	823.2	822.8	822.3	822.0	821.6	821.2	820.8
150°	847.8	847.8	847.1	846.4	845.7	845.0	844.8	844.9	845.1	845.3	845.4
152.5°	868.5	868.1	867.8	867.5	867.2	867.0	866.6	866.4	866.2	865.9	865.7
155°	898.3	897.6	897.5	897.3	897.1	896.9	896.8	896.8	896.8	896.8	896.8
157.5°	924.5	923.8	923.6	923.4	923.2	923.1	923.1	923.5	923.9	924.3	924.7
160°	940.2	939.5	939.4	939.2	939.1	938.9	939.1	939.5	940.1	940.6	941.1
162.5°	955.0	954.1	954.1	954.0	954.0	953.9	954.2	954.5	954.9	955.3	955.7
165°	975.1	974.4	974.1	974.0	973.8	973.7	973.8	974.1	974.5	974.8	975.2
167.5°	989.5	988.4	988.4	988.4	988.4	988.4	988.8	989.5	990.2	990.9	991.6
170°	998.4	997.3	997.3	997.3	997.3	997.3	997.7	998.4	999.0	999.7	1000.4
172.5°	1004.6	1003.6	1003.6	1003.6	1003.6	1003.6	1004.0	1004.6	1005.4	1006.1	1006.8
175°	1011.8	1010.7	1010.7	1010.7	1010.7	1010.7	1011.1	1011.8	1012.5	1013.2	1013.9
177.5°	1015.3	1014.4	1014.5	1014.6	1014.8	1014.9	1015.3	1015.8	1016.4	1017.0	1017.6
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1462.8	1469.7	1474.2	1482.6	1489.5	1493.4	1496.9	1499.8	1503.3	1506.3	1514.7
5°	1472.2	1488.2	1501.8	1522.8	1542.0	1556.8	1572.8	1587.1	1598.8	1615.4	1628.4
7.5°	1468.1	1496.6	1526.5	1559.0	1592.2	1623.1	1651.5	1678.1	1702.2	1731.3	1756.8
10°	1464.1	1503.1	1541.3	1585.2	1630.2	1668.6	1704.4	1740.8	1767.4	1804.4	1835.9
12.5°	1461.2	1507.0	1553.2	1605.9	1655.4	1709.5	1757.2	1783.8	1824.2	1853.8	1891.3
15°	1448.7	1509.3	1572.8	1632.1	1702.5	1752.5	1794.5	1846.4	1884.0	1921.8	1962.5
17.5°	1426.3	1494.9	1566.1	1643.7	1711.3	1765.0	1819.1	1869.2	1914.1	1964.6	2015.3
20°	1415.9	1484.5	1566.1	1645.7	1711.7	1768.0	1823.5	1878.5	1927.9	1992.7	2051.4
22.5°	1394.2	1477.1	1552.2	1629.9	1698.0	1759.0	1822.1	1884.4	1950.1	2023.4	2096.8
25°	1355.5	1439.5	1519.1	1595.7	1664.2	1740.8	1808.1	1891.5	1975.5	2072.4	2163.8
27.5°	1315.2	1395.6	1468.6	1542.5	1622.5	1709.2	1796.5	1891.1	2001.1	2123.4	2252.3
30°	1282.6	1358.5	1429.6	1505.5	1588.9	1686.5	1782.2	1894.6	2021.8	2159.5	2312.6
32.5°	1244.5	1314.5	1383.6	1464.0	1554.8	1657.8	1769.3	1892.6	2045.5	2201.9	2359.6
35°	1179.5	1238.1	1309.2	1395.0	1497.5	1615.4	1744.5	1890.2	2065.6	2245.3	2378.1
37.5°	1102.2	1156.9	1231.7	1325.8	1433.3	1559.9	1713.0	1885.9	2072.2	2215.4	2258.3
40°	1050.4	1101.1	1178.8	1276.4	1386.3	1520.4	1688.3	1871.1	2051.4	2142.8	2107.6
42.5°	995.1	1048.2	1124.0	1220.6	1338.9	1484.8	1657.2	1840.0	1991.2	2025.7	1904.1
45°	907.8	962.7	1037.4	1135.0	1262.2	1420.3	1600.0	1766.1	1853.2	1790.8	1602.5
47.5°	826.6	878.1	947.4	1048.1	1179.3	1342.8	1515.9	1648.5	1655.3	1506.5	1305.4
50°	771.3	818.8	888.6	989.3	1119.6	1285.1	1441.3	1545.6	1498.7	1330.2	1136.9
52.5°	716.9	763.5	832.3	932.0	1060.8	1212.4	1357.8	1431.1	1342.6	1169.6	1004.5
55°	638.5	679.3	746.6	838.6	960.8	1101.7	1225.2	1250.5	1135.6	965.2	831.2
57.5°	562.0	600.0	661.2	746.0	857.8	982.5	1079.0	1073.6	952.2	806.0	699.7
60°	510.1	547.2	601.5	684.2	786.1	893.6	976.3	956.6	836.1	710.2	620.6
62.5°	463.7	496.7	548.1	620.5	713.5	813.0	881.0	851.8	733.9	623.7	552.9
65°	395.2	423.0	466.8	528.6	605.8	687.9	740.4	702.7	602.1	516.3	459.5
67.5°	329.9	352.1	388.9	438.2	504.0	570.0	602.0	564.0	483.5	420.9	378.8
70°	288.4	308.2	336.5	380.4	437.8	493.4	517.5	483.5	414.4	360.6	330.3
72.5°	246.9	263.2	288.1	327.6	373.6	421.8	442.9	410.4	353.6	308.2	280.0
75°	190.8	201.9	219.2	246.4	282.8	321.2	332.9	304.4	268.0	234.0	215.6
77.5°	136.6	146.0	159.1	176.3	202.1	226.4	236.6	220.2	192.0	170.6	155.3
80°	105.0	110.0	121.0	135.2	155.6	171.0	177.8	167.4	147.6	131.5	119.8
82.5°	74.9	79.8	86.4	98.2	111.1	121.7	129.0	121.9	107.6	95.0	88.2
85°	36.4	39.5	43.3	48.2	58.1	64.2	63.6	59.3	53.7	48.8	45.1
87.5°	13.3	14.0	15.8	18.5	20.3	22.6	23.8	23.1	21.3	20.0	18.7
90°	2.2	3.6	5.0	6.4	7.8	9.0	10.2	11.4	12.7	13.5	14.4
92.5°	20.1	21.1	22.1	23.1	24.3	25.8	27.3	28.8	30.3	31.5	32.7
95°	51.7	52.1	52.4	52.8	53.9	55.6	57.4	59.2	60.9	62.1	63.4
97.5°	85.6	85.7	85.9	86.0	87.3	89.7	92.1	94.5	97.0	98.2	99.3
100°	110.7	110.7	110.7	110.7	111.9	114.2	116.5	118.7	121.0	122.6	124.1
102.5°	138.6	139.3	140.1	140.8	141.6	142.8	144.0	145.1	146.3	148.1	149.7
105°	181.2	182.0	183.0	183.9	184.8	185.8	186.9	188.0	189.0	190.0	191.2
107.5°	228.0	228.9	229.8	230.7	231.5	232.3	233.1	233.9	234.7	235.3	235.8
110°	260.3	261.2	262.1	262.9	263.6	264.1	264.7	265.2	265.7	266.3	266.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	292.8	293.2	293.7	294.1	294.7	295.4	296.0	296.7	297.4	297.6	297.9
115°	341.6	342.3	343.0	343.6	344.2	344.5	344.9	345.2	345.6	345.5	345.2
117.5°	389.9	390.2	390.5	390.9	391.2	391.5	391.8	392.1	392.4	392.6	392.7
120°	420.8	421.7	422.6	423.5	424.0	424.1	424.4	424.5	424.7	424.7	424.7
122.5°	453.2	453.5	453.8	454.2	454.5	455.0	455.4	455.9	456.3	456.2	456.1
125°	498.5	499.6	500.7	501.7	502.3	502.5	502.6	502.8	503.0	502.6	502.3
127.5°	545.5	546.1	546.7	547.3	547.7	548.0	548.1	548.3	548.6	548.3	548.2
130°	574.3	575.1	576.0	576.9	577.5	577.9	578.2	578.5	578.9	578.8	578.5
132.5°	603.3	604.8	606.2	607.6	608.3	608.2	608.2	608.1	608.0	607.8	607.7
135°	648.0	649.0	650.1	651.2	651.8	652.0	652.1	652.3	652.4	652.4	652.4
137.5°	690.3	691.3	692.4	693.4	694.1	694.5	694.9	695.3	695.6	695.9	696.1
140°	717.4	718.3	719.1	720.0	720.7	721.3	721.8	722.3	722.9	723.2	723.6
142.5°	744.5	745.2	745.9	746.7	747.4	748.1	748.8	749.4	750.0	750.3	750.5
145°	784.5	785.1	785.8	786.6	787.2	787.7	788.2	788.8	789.3	789.3	789.3
147.5°	821.2	821.6	822.0	822.3	822.8	823.2	823.6	823.9	824.4	824.8	825.2
150°	845.3	845.1	844.9	844.8	845.0	845.7	846.4	847.1	847.8	847.8	847.8
152.5°	865.9	866.2	866.4	866.6	867.0	867.2	867.5	867.8	868.1	868.5	868.9
155°	896.8	896.8	896.8	896.8	896.9	897.1	897.3	897.5	897.6	898.3	899.0
157.5°	924.3	923.9	923.5	923.1	923.1	923.2	923.4	923.6	923.8	924.5	925.1
160°	940.6	940.1	939.5	939.1	938.9	939.1	939.2	939.4	939.5	940.2	941.0
162.5°	955.3	954.9	954.5	954.2	953.9	954.0	954.0	954.1	954.1	955.0	955.8
165°	974.8	974.5	974.1	973.8	973.7	973.8	974.0	974.1	974.4	975.1	975.7
167.5°	990.9	990.2	989.5	988.8	988.4	988.4	988.4	988.4	988.4	989.5	990.5
170°	999.7	999.0	998.4	997.7	997.3	997.3	997.3	997.3	997.3	998.4	999.4
172.5°	1006.1	1005.4	1004.6	1004.0	1003.6	1003.6	1003.6	1003.6	1003.6	1004.6	1005.8
175°	1013.2	1012.5	1011.8	1011.1	1010.7	1010.7	1010.7	1010.7	1010.7	1011.8	1012.9
177.5°	1017.0	1016.4	1015.8	1015.3	1014.9	1014.8	1014.6	1014.5	1014.4	1015.3	1016.1
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1521.5	1525.5	1533.9	1531.0	1534.9	1536.9	1538.9
5°	1644.5	1664.2	1672.9	1671.7	1684.6	1681.5	1678.4
7.5°	1783.3	1804.0	1815.7	1830.1	1838.5	1839.1	1846.4
10°	1861.9	1889.0	1900.1	1915.6	1925.5	1931.0	1930.4
12.5°	1922.1	1943.4	1968.3	1975.9	1989.2	1996.2	1993.6
15°	1994.6	2028.5	2054.5	2067.4	2084.2	2089.1	2095.9
17.5°	2059.4	2104.9	2135.2	2175.4	2190.6	2199.9	2194.4
20°	2108.2	2168.1	2198.4	2246.5	2273.1	2287.3	2282.4
22.5°	2166.1	2230.9	2286.8	2328.5	2368.9	2388.1	2392.1
25°	2265.1	2354.0	2436.1	2491.1	2541.1	2552.8	2578.8
27.5°	2375.8	2480.6	2568.4	2626.2	2661.0	2674.1	2682.3
30°	2445.4	2549.7	2615.9	2652.9	2664.0	2662.8	2661.5
32.5°	2479.5	2544.8	2557.6	2547.2	2521.8	2500.2	2477.8
35°	2431.2	2382.4	2309.5	2215.7	2146.5	2076.7	2070.0
37.5°	2186.5	2030.5	1909.2	1773.8	1695.6	1647.3	1614.0
40°	1956.3	1779.1	1632.1	1517.9	1438.2	1406.8	1375.9
42.5°	1706.4	1537.0	1406.8	1311.4	1251.5	1216.6	1192.1
45°	1386.3	1236.9	1135.0	1065.9	1018.3	991.1	975.7
47.5°	1136.0	1025.5	938.9	889.0	856.1	835.0	835.1
50°	1001.6	896.0	838.6	799.1	770.6	754.0	757.1
52.5°	882.6	803.7	754.6	721.5	700.5	690.2	689.9
55°	737.9	681.1	649.0	625.0	610.7	599.0	601.5
57.5°	631.2	583.3	561.8	541.9	532.0	527.3	520.5
60°	565.1	528.0	509.5	493.4	483.5	479.8	473.0
62.5°	506.3	477.1	459.1	446.0	437.0	435.9	430.6
65°	425.5	403.2	387.2	381.0	371.8	369.3	369.3
67.5°	350.8	334.9	322.3	316.6	312.6	313.2	310.2
70°	303.8	290.9	282.8	276.6	273.5	274.2	271.7
72.5°	265.8	251.4	244.3	240.6	236.5	238.1	237.1
75°	201.3	193.9	190.2	186.5	184.0	182.8	181.6
77.5°	147.8	141.3	138.5	136.3	136.7	133.7	136.1
80°	114.2	108.7	106.9	103.8	103.1	103.1	102.5
82.5°	83.6	80.5	79.1	76.6	75.5	76.4	74.9
85°	43.3	40.7	40.2	40.2	38.9	37.7	40.7
87.5°	18.9	17.0	17.2	16.8	17.0	16.6	15.7
90°	15.3	16.2	16.9	17.4	17.9	18.5	19.0
92.5°	33.8	35.0	35.8	36.2	36.5	36.9	37.3
95°	64.6	65.8	66.6	66.9	67.3	67.7	68.0
97.5°	100.4	101.6	102.3	102.5	102.7	102.9	103.1
100°	125.7	127.3	128.3	128.7	129.0	129.4	129.7
102.5°	151.5	153.2	154.3	154.8	155.3	155.8	156.3
105°	192.2	193.2	194.0	194.6	195.1	195.6	196.1
107.5°	236.3	236.9	237.1	237.0	237.0	237.0	236.9
110°	267.3	267.8	268.0	267.8	267.7	267.5	267.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	298.1	298.3	298.3	298.0	297.7	297.4	297.1
115°	345.1	344.9	344.8	344.5	344.4	344.2	344.0
117.5°	392.8	393.0	392.7	392.0	391.3	390.6	389.9
120°	424.7	424.7	424.4	423.7	422.9	422.2	421.5
122.5°	455.9	455.7	455.4	454.9	454.3	453.8	453.2
125°	501.9	501.6	501.3	501.1	501.0	500.8	500.7
127.5°	548.0	547.9	547.6	547.2	546.8	546.5	546.2
130°	578.4	578.2	578.0	577.6	577.3	576.9	576.6
132.5°	607.5	607.3	607.0	606.5	606.0	605.5	605.0
135°	652.4	652.4	652.1	651.4	650.7	650.0	649.3
137.5°	696.2	696.5	696.2	695.3	694.4	693.6	692.7
140°	723.9	724.3	724.0	723.1	722.2	721.4	720.5
142.5°	750.7	750.9	750.6	749.7	748.8	748.0	747.0
145°	789.3	789.3	789.0	788.5	788.0	787.4	787.0
147.5°	825.7	826.1	825.7	824.5	823.3	822.1	820.9
150°	847.8	847.8	847.6	847.3	846.9	846.6	846.2
152.5°	869.3	869.7	869.7	869.0	868.4	867.8	867.1
155°	899.8	900.5	900.4	899.5	898.6	897.7	896.8
157.5°	925.8	926.5	926.3	925.2	924.0	922.8	921.7
160°	941.7	942.4	942.3	941.4	940.6	939.7	938.7
162.5°	956.6	957.5	957.4	956.4	955.4	954.3	953.3
165°	976.4	977.2	977.0	976.0	974.9	973.8	972.8
167.5°	991.6	992.7	992.6	991.6	990.5	989.4	988.2
170°	1000.4	1001.5	1001.4	1000.2	998.9	997.8	996.5
172.5°	1006.8	1007.8	1007.8	1006.7	1005.7	1004.6	1003.5
175°	1013.9	1014.9	1014.9	1013.7	1012.4	1011.1	1010.0
177.5°	1016.9	1017.7	1017.7	1016.7	1015.7	1014.7	1013.8
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3

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