

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: P332073-830

Luminaire Tested: **S123DIP-S1165D1025U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332073-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D1025U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7936.6 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

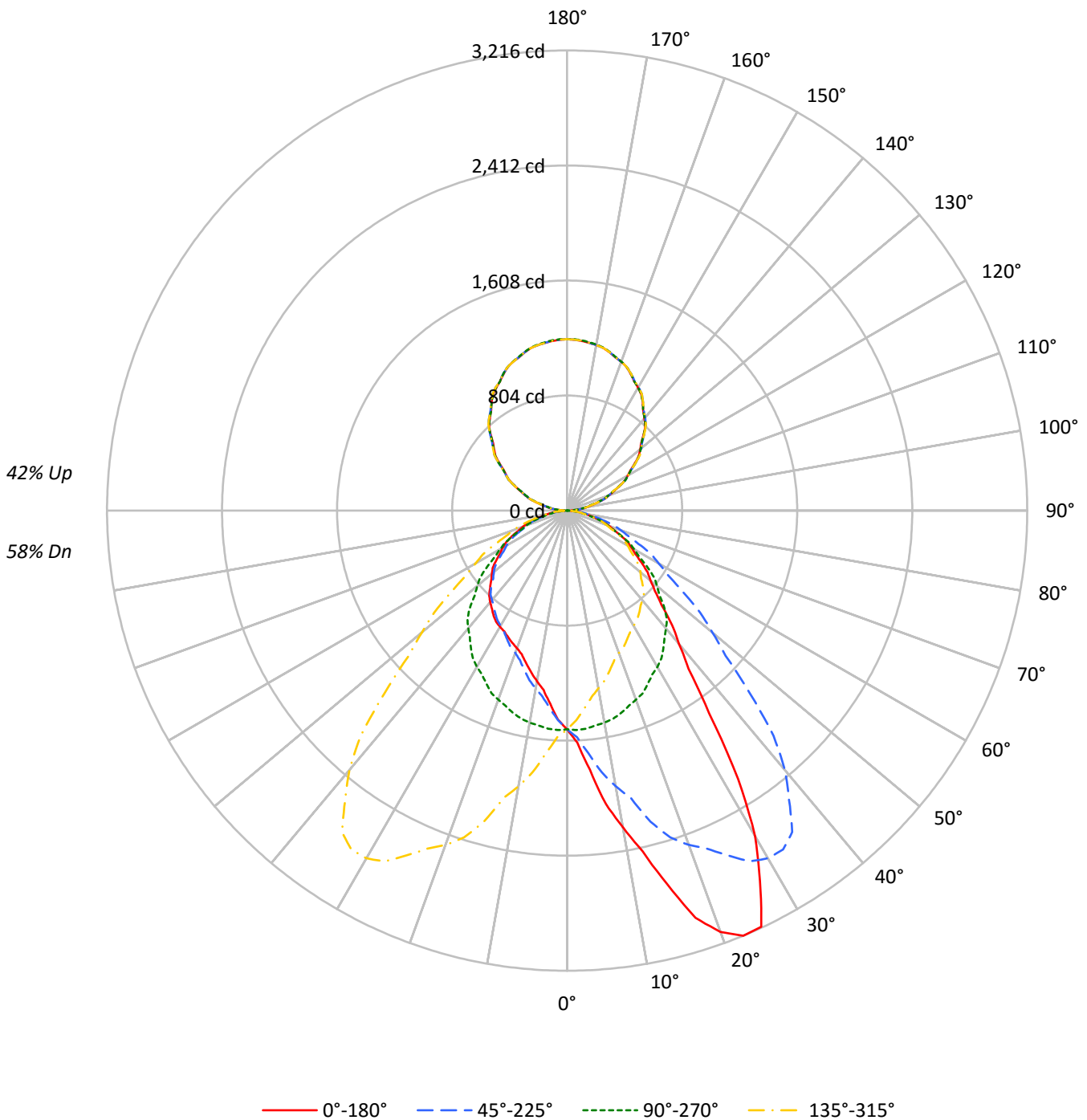
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	75	75	64	64	64	58
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	54	50
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40	36
4	76	66	58	52	71	62	55	49	54	48	44	47	43	39	40	37	34	31
5	70	59	51	45	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	29	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24	21
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	26	22	19	17
10	49	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°	16457	16457	16457	16457
5°	19626	16528	14647	16528
10°	24565	16444	13230	16444
15°	30130	16312	12316	16312
20°	35892	16105	11726	16105
25°	38112	15853	11595	15853
30°	32666	15669	11656	15669
35°	22718	15408	11779	15408
40°	17113	15104	11741	15104
45°	14209	14647	11592	14647
50°	12728	13720	11488	13720
55°	11898	12720	11344	12720
60°	11162	11672	11227	11672
65°	10491	10641	10868	10641
70°	9838	9467	10351	9467
75°	8813	8289	9491	8289
80°	7711	6794	8176	6794
85°	6039	4940	5496	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.9
10°-20°	482.9	6.1
20°-30°	810.5	10.2
30°-40°	917.8	11.6
40°-50°	823.0	10.4
50°-60°	664.2	8.4
60°-70°	462.8	5.8
70°-80°	243.3	3.1
80°-90°	63.0	0.8
90°-100°	78.0	1.0
100°-110°	233.5	2.9
110°-120°	397.2	5.0
120°-130°	522.5	6.6
130°-140°	587.2	7.4
140°-150°	577.2	7.3
150°-160°	486.0	6.1
160°-170°	323.5	4.1
170°-180°	113.3	1.4
0°-30°	1444.1	18.2
0°-40°	2361.9	29.8
0°-60°	3849.1	48.5
0°-90°	4618.2	58.2
90°-120°	708.8	8.9
90°-150°	2395.7	30.2
90°-180°	3318.0	41.8
0°-180°	7936.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1529	1529	1529	1529	1529	
5°	1816	1530	1356	1530	1816	188
15°	2704	1464	1105	1464	2704	781
25°	3209	1335	976	1335	3209	1407
35°	1729	1173	896	1173	1729	1123
45°	933	962	762	962	933	739
55°	634	678	604	678	634	569
65°	412	418	427	418	412	410
75°	212	199	228	199	212	227
85°	49	40	44	40	49	59
90°	28	1	28	1	28	16
95°	73	56	73	56	73	75
105°	224	212	224	212	224	238
115°	401	400	401	400	401	397
125°	579	585	579	585	579	517
135°	758	759	758	759	758	583
145°	921	921	921	921	921	575
155°	1053	1055	1053	1055	1053	485
165°	1145	1149	1145	1149	1145	323
175°	1190	1195	1190	1195	1190	113
180°	1198	1198	1198	1198	1198	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1622.6	1621.4	1618.4	1620.8	1616.1	1609.5	1608.9	1603.0	1585.8	1584.6	1579.9
5°	1816.4	1810.4	1809.7	1808.9	1798.6	1784.5	1757.8	1755.6	1720.0	1702.2	1680.8
7.5°	2067.3	2070.4	2059.6	2050.1	2018.5	1997.5	1969.0	1932.4	1888.7	1844.4	1814.9
10°	2247.5	2271.9	2241.6	2220.8	2201.6	2165.2	2123.1	2070.4	2017.8	1956.3	1909.7
12.5°	2440.7	2452.7	2446.6	2427.0	2397.1	2341.8	2267.0	2209.1	2160.7	2058.3	2016.9
15°	2703.8	2749.0	2720.1	2653.4	2654.9	2602.3	2504.5	2397.1	2340.1	2250.4	2128.3
17.5°	2984.1	2989.7	2977.4	2921.9	2884.8	2812.5	2722.3	2619.3	2503.8	2395.4	2265.7
20°	3133.4	3129.0	3103.0	3074.2	3010.5	2954.2	2855.6	2740.8	2592.7	2486.1	2344.5
22.5°	3216.4	3209.0	3196.7	3172.5	3119.5	3059.0	2970.6	2845.2	2704.1	2557.1	2393.7
25°	3209.0	3218.6	3220.1	3213.4	3194.9	3158.6	3089.0	2989.0	2848.3	2659.4	2489.0
27.5°	2918.6	2932.2	2971.8	3006.9	3046.2	3086.2	3080.8	3031.2	2927.1	2763.9	2555.6
30°	2628.2	2598.6	2671.9	2764.6	2827.5	2938.6	3000.9	3004.5	2946.0	2806.0	2603.0
32.5°	2225.2	2257.9	2290.3	2404.2	2541.8	2666.6	2790.5	2890.2	2901.6	2808.4	2630.9
35°	1728.9	1769.7	1828.9	1888.2	2036.4	2163.8	2381.5	2571.2	2722.3	2742.3	2633.4
37.5°	1393.3	1413.3	1450.9	1510.2	1607.1	1758.3	1926.7	2166.4	2385.4	2548.3	2555.3
40°	1217.9	1223.7	1265.9	1311.2	1389.7	1514.1	1665.9	1877.8	2140.0	2367.5	2462.3
42.5°	1086.3	1099.3	1117.2	1160.6	1223.1	1316.8	1458.0	1633.0	1873.4	2135.1	2320.6
45°	933.4	948.2	959.3	988.2	1032.6	1095.6	1194.1	1354.2	1537.1	1807.4	2057.1
47.5°	832.4	833.5	841.8	863.6	893.8	941.0	1010.7	1113.5	1281.5	1500.8	1757.1
50°	760.1	771.8	774.9	791.8	815.6	850.4	908.1	995.6	1133.4	1326.0	1561.5
52.5°	709.1	712.7	721.0	733.2	753.9	781.1	831.1	899.6	1007.8	1171.9	1388.5
55°	634.0	634.0	642.2	651.9	663.7	688.2	721.5	771.8	854.1	981.5	1160.7
57.5°	564.8	568.4	574.2	577.2	587.3	603.4	631.3	669.5	730.8	828.9	971.5
60°	518.5	525.2	524.4	530.4	539.3	551.9	575.6	606.7	661.5	740.0	860.1
62.5°	478.2	477.8	477.7	484.7	493.6	505.7	521.0	548.0	594.6	664.2	766.4
65°	411.9	410.4	415.6	420.0	423.0	431.9	443.7	467.4	498.5	550.4	629.6
67.5°	352.9	348.6	351.4	352.9	358.0	364.9	376.0	390.7	415.4	457.0	516.8
70°	312.6	308.9	308.1	309.6	314.1	319.2	327.4	341.5	364.5	397.8	441.5
72.5°	271.1	268.6	268.4	271.7	273.8	277.2	283.0	295.9	314.1	339.1	379.8
75°	211.9	211.9	211.9	212.6	214.8	217.8	222.3	228.8	243.0	260.7	288.1
77.5°	158.8	158.6	157.8	157.6	160.9	162.2	163.2	169.5	177.3	189.4	209.3
80°	124.4	120.7	122.2	124.4	125.9	126.7	128.9	130.4	137.0	143.7	157.8
82.5°	92.5	89.4	89.6	93.0	93.3	94.1	96.3	98.4	100.9	107.0	114.5
85°	48.9	48.9	49.7	49.7	50.3	49.7	51.8	52.6	52.6	56.3	60.7
87.5°	23.5	22.1	22.6	23.2	22.5	23.0	23.4	23.8	24.2	24.7	24.7
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5	36.8	36.1	34.6
95°	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3	70.5	69.7	68.0
97.5°	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8	109.9	109.0	107.7
100°	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6	138.9	138.3	137.2
102.5°	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7	172.0	171.4	170.0
105°	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1	222.1	222.1	220.2
107.5°	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5	274.8	274.2	273.4
110°	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2	310.4	309.5	309.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9	345.9	344.9	344.9
115°	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2	401.1	400.8	401.2
117.5°	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0	456.1	456.1	456.7
120°	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6	492.8	493.0	494.1
122.5°	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5	530.1	530.7	531.2
125°	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5	585.3	586.2	586.5
127.5°	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8	639.9	641.1	641.6
130°	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8	675.6	676.5	677.1
132.5°	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8	710.9	711.8	712.3
135°	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3	763.2	763.9	764.2
137.5°	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6	814.5	815.3	814.8
140°	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3	847.5	847.7	847.5
142.5°	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9	879.1	879.3	878.9
145°	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4	925.6	925.8	925.2
147.5°	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4	996.4	996.4	996.0
152.5°	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2	1020.8	1020.5	1020.2
155°	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3	1056.5	1055.6	1055.5
157.5°	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4	1087.6	1086.7	1086.6
160°	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6	1106.5	1105.5	1105.5
162.5°	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7	1124.6	1123.6	1123.4
165°	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5	1147.2	1145.9	1145.9
167.5°	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4	1164.2
170°	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2	1174.2
172.5°	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1	1183.7	1182.4	1182.4
175°	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6	1192.4	1191.1	1191.1
177.5°	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5	1196.5	1195.4	1195.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1576.3	1571.6	1566.9	1558.6	1551.4	1541.3	1538.4	1534.8	1524.2	1514.8	1507.6
5°	1672.6	1654.8	1628.9	1605.2	1586.0	1560.1	1545.2	1529.7	1507.4	1487.4	1471.1
7.5°	1773.4	1738.4	1698.1	1654.5	1614.0	1574.9	1543.3	1515.1	1484.0	1454.5	1431.6
10°	1853.4	1803.0	1746.7	1686.0	1634.1	1583.8	1541.5	1504.5	1464.5	1429.6	1400.8
12.5°	1944.7	1870.0	1792.3	1718.5	1657.3	1587.3	1536.2	1489.1	1443.8	1401.8	1369.4
15°	2052.7	1957.8	1866.0	1764.5	1671.1	1583.8	1523.1	1463.8	1411.2	1368.2	1326.7
17.5°	2151.1	2043.6	1922.6	1799.1	1686.6	1582.9	1497.8	1430.9	1365.1	1312.5	1271.1
20°	2206.8	2084.5	1947.5	1819.3	1694.9	1579.3	1486.0	1406.0	1334.8	1279.3	1232.7
22.5°	2254.8	2111.8	1970.0	1833.0	1694.3	1569.8	1464.1	1381.7	1304.7	1250.3	1200.6
25°	2304.5	2133.4	1991.2	1830.4	1675.7	1546.7	1428.2	1334.8	1257.8	1194.1	1143.0
27.5°	2347.2	2131.9	1963.1	1790.3	1646.2	1517.1	1390.5	1290.4	1208.6	1139.4	1087.6
30°	2375.6	2134.9	1934.1	1763.0	1617.9	1484.5	1361.5	1260.7	1174.9	1104.5	1055.6
32.5°	2393.4	2133.1	1907.4	1725.1	1572.8	1454.8	1330.1	1225.8	1137.6	1068.4	1021.2
35°	2403.8	2120.1	1861.5	1646.7	1500.1	1385.3	1280.8	1172.6	1080.1	1015.6	962.2
37.5°	2383.0	2092.6	1808.2	1571.1	1410.6	1297.5	1209.7	1117.5	1028.9	958.0	912.0
40°	2350.4	2074.9	1766.7	1517.9	1349.0	1240.0	1165.3	1074.9	987.4	920.0	877.0
42.5°	2288.2	2038.7	1721.1	1458.6	1285.0	1176.0	1107.1	1031.6	949.0	885.6	842.7
45°	2136.4	1960.0	1652.7	1369.7	1190.4	1077.8	1017.1	962.2	887.4	826.0	788.9
47.5°	1925.7	1841.7	1553.7	1275.9	1091.7	983.4	920.3	876.2	821.5	771.8	736.3
50°	1779.3	1744.5	1486.7	1211.9	1026.0	920.0	859.3	819.3	780.0	730.4	697.8
52.5°	1610.4	1631.9	1408.5	1145.5	959.0	854.9	797.7	765.9	730.3	689.5	661.1
55°	1372.6	1450.4	1273.4	1034.1	859.3	760.1	706.0	677.8	657.0	626.7	602.3
57.5°	1150.0	1249.0	1127.3	919.3	761.4	675.7	623.9	593.2	579.9	564.0	544.8
60°	1017.9	1115.6	1023.0	842.3	695.6	614.1	568.2	542.2	528.9	517.8	501.5
62.5°	899.8	998.8	921.1	764.0	630.9	555.4	515.4	490.1	479.8	473.9	460.1
65°	737.8	823.0	771.1	642.2	538.6	471.8	435.5	417.8	408.1	406.0	397.1
67.5°	600.5	665.3	627.5	532.7	451.1	393.5	362.7	347.6	340.2	339.4	332.7
70°	510.4	571.1	542.2	456.3	386.0	340.7	314.1	300.8	296.3	295.6	291.9
72.5°	440.5	482.9	459.9	388.1	333.8	292.8	273.1	259.3	254.2	255.2	252.8
75°	325.9	357.8	344.5	294.8	251.1	224.4	208.1	199.3	194.8	197.1	194.1
77.5°	234.5	254.7	242.7	208.3	181.3	162.1	150.1	144.6	140.6	140.4	139.1
80°	177.0	188.9	182.2	161.5	139.3	123.0	113.3	109.6	107.4	106.7	105.9
82.5°	126.1	136.2	128.3	114.0	99.0	89.2	83.7	78.8	77.2	77.7	76.9
85°	63.7	67.4	64.5	55.5	49.7	45.1	42.2	40.0	38.5	39.3	37.8
87.5°	25.4	25.4	23.1	20.3	18.7	16.4	16.0	14.4	13.7	14.0	13.9
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8	24.2	25.6	27.1
95°	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5	56.9	58.4	59.9
97.5°	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6	99.7	100.8	101.9
100°	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0	129.2	130.4	131.7
102.5°	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8	162.6	163.3	164.1
105°	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7	212.1	212.5	212.9
107.5°	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7	269.9	270.1	270.4
110°	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8	306.2	306.6	307.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4	343.7	343.9	344.1
115°	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8	400.5	401.1	401.7
117.5°	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7	457.1	457.5	458.0
120°	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1	493.3	494.6	495.9
122.5°	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0	529.9	530.7	531.7
125°	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2	585.9	586.4	587.1
127.5°	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2	638.5	639.8	641.1
130°	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8	673.4	675.1	676.7
132.5°	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4	708.0	709.7	711.4
135°	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3	760.5	761.8	763.0
137.5°	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2	809.3	810.3	811.3
140°	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1	843.1	844.1	845.2
142.5°	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9	873.9	875.1	876.1
145°	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1	921.5	921.9	922.4
147.5°	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3	964.0	964.8	965.5
150°	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6	993.1	993.4	993.8
152.5°	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7	1017.3	1017.9	1018.4
155°	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0	1086.8	1086.6	1086.3
160°	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4	1106.9	1106.5	1106.2
162.5°	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5	1124.8	1124.3	1123.7
165°	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8	1148.1	1147.5	1146.9
167.5°	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4	1166.6	1165.7	1164.9
170°	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0	1177.1	1176.3	1175.4
172.5°	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2	1185.4	1184.6	1183.7
175°	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9	1194.0	1193.2	1192.4
177.5°	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4	1197.8	1197.1	1196.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1503.4	1499.3	1493.4	1484.5	1477.3	1466.1	1466.1	1467.9	1467.9	1467.4	1466.1
5°	1457.8	1446.7	1433.4	1417.9	1401.6	1385.3	1382.2	1376.3	1371.9	1368.9	1365.3
7.5°	1409.7	1390.0	1370.6	1348.8	1328.9	1312.5	1301.1	1291.6	1285.5	1279.0	1274.2
10°	1377.1	1352.6	1329.6	1306.7	1281.5	1261.5	1249.0	1240.0	1233.4	1227.5	1224.5
12.5°	1338.6	1310.6	1285.3	1263.5	1235.9	1215.3	1203.3	1199.1	1191.3	1178.8	1172.3
15°	1282.2	1256.3	1226.0	1192.6	1179.3	1154.1	1140.0	1133.4	1128.9	1119.3	1116.3
17.5°	1234.1	1200.1	1166.1	1141.2	1116.4	1096.0	1088.2	1079.9	1073.9	1066.1	1063.8
20°	1195.6	1165.3	1134.1	1107.5	1081.5	1059.3	1052.6	1046.7	1040.8	1037.1	1034.1
22.5°	1156.5	1126.1	1100.3	1075.4	1047.7	1033.2	1026.0	1019.5	1015.3	1012.8	1009.8
25°	1101.5	1074.9	1045.9	1023.7	1001.5	991.8	987.4	983.7	980.8	977.0	976.3
27.5°	1052.3	1023.3	999.8	979.1	963.2	955.2	950.8	949.0	949.7	951.0	951.9
30°	1015.6	988.9	969.7	951.9	937.1	929.6	928.9	928.9	931.9	932.6	934.1
32.5°	981.8	959.9	940.7	923.4	912.2	907.1	909.9	909.9	912.3	914.3	916.9
35°	932.6	913.3	898.5	883.7	874.1	876.3	877.8	879.3	883.0	887.4	890.4
37.5°	885.6	868.9	853.5	842.0	837.5	841.5	845.1	848.2	852.4	855.9	858.8
40°	851.9	839.2	824.4	814.1	815.6	817.8	820.8	824.4	828.2	830.4	833.4
42.5°	820.5	807.3	796.1	787.4	789.5	792.3	794.1	796.1	800.3	804.4	806.1
45°	772.6	762.2	751.9	746.7	748.2	749.7	751.1	753.4	757.1	760.1	760.7
47.5°	718.9	711.6	704.6	699.6	701.9	701.3	703.3	708.0	709.2	711.0	715.1
50°	684.5	677.8	669.7	668.2	668.2	668.2	668.9	674.9	674.9	677.8	680.8
52.5°	646.6	642.2	637.1	634.4	633.2	633.2	636.3	639.3	640.5	644.6	647.6
55°	590.4	586.0	581.5	579.3	577.8	579.3	585.2	586.6	590.4	592.6	594.8
57.5°	531.9	528.5	524.9	523.7	523.4	525.4	528.6	533.0	534.0	540.7	544.1
60°	493.3	488.1	485.2	485.2	483.7	490.4	488.9	496.3	497.8	502.3	507.5
62.5°	453.6	446.7	445.5	445.5	447.6	449.5	451.6	454.9	458.6	464.3	468.3
65°	389.6	386.0	391.2	390.4	388.9	393.3	393.3	397.1	401.5	406.7	414.8
67.5°	329.0	327.2	327.5	327.5	329.8	332.3	334.4	337.6	343.0	348.5	353.8
70°	288.1	290.4	286.7	289.6	291.9	292.6	294.1	298.5	304.4	308.1	314.1
72.5°	248.5	248.3	248.7	250.0	252.1	253.4	255.0	260.0	266.6	269.7	274.4
75°	191.1	190.4	192.6	192.6	196.3	197.7	199.3	201.5	207.5	211.9	215.6
77.5°	139.6	140.4	140.0	142.5	141.5	141.8	146.4	148.6	149.2	158.0	159.9
80°	105.2	106.7	107.4	108.1	108.9	107.4	112.6	114.8	114.8	120.0	123.7
82.5°	75.6	76.4	78.4	79.1	79.3	80.8	81.2	82.8	84.6	86.8	91.7
85°	37.8	40.0	40.7	40.0	40.7	39.3	41.5	42.2	43.0	43.0	43.0
87.5°	13.7	14.8	14.7	15.8	15.8	17.0	17.2	16.1	16.3	18.2	16.0
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5	38.2	38.8	39.0
95°	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3	72.1	73.0	73.4
97.5°	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8	111.9	112.8	113.2
100°	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6	140.2	140.8	141.4
102.5°	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7	173.3	173.9	174.2
105°	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1	222.1	222.1	222.3
107.5°	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5	276.2	276.8	277.0
110°	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2	312.1	312.9	313.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9	347.9	348.9	349.4
115°	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2	401.4	401.6	401.6
117.5°	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0	456.0	456.0	455.6
120°	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6	492.4	492.2	491.8
122.5°	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5	529.0	528.5	527.9
125°	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5	583.6	582.8	581.9
127.5°	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8	637.6	636.4	635.4
130°	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8	673.9	673.2	671.9
132.5°	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8	708.9	707.8	706.8
135°	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3	761.5	760.6	760.0
137.5°	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6	812.8	811.8	811.0
140°	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3	847.1	846.9	846.0
142.5°	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9	878.7	878.4	877.8
145°	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4	925.2	924.9	924.4
147.5°	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4	996.4	996.4	995.7
152.5°	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2	1021.4	1021.8	1021.4
155°	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3	1058.2	1058.9	1058.7
157.5°	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4	1089.3	1090.2	1090.1
160°	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6	1108.6	1109.7	1109.7
162.5°	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7	1126.7	1127.8	1127.6
165°	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5	1149.7	1150.9	1150.8
167.5°	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6
170°	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1
172.5°	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1	1186.4	1187.6	1187.6
175°	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6	1194.9	1196.2	1196.0
177.5°	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5	1198.4	1199.5	1199.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1462.0	1461.4	1465.6	1462.5	1465.6	1461.4	1462.0	1466.1	1467.4	1467.9	1467.9
5°	1360.7	1363.0	1355.6	1355.6	1355.6	1363.0	1360.7	1365.3	1368.9	1371.9	1376.3
7.5°	1270.7	1267.4	1267.7	1263.8	1267.7	1267.4	1270.7	1274.2	1279.0	1285.5	1291.6
10°	1215.6	1211.2	1209.7	1210.4	1209.7	1211.2	1215.6	1224.5	1227.5	1233.4	1240.0
12.5°	1170.0	1169.0	1159.3	1159.4	1159.3	1169.0	1170.0	1172.3	1178.8	1191.3	1199.1
15°	1116.3	1102.3	1100.8	1105.2	1100.8	1102.3	1116.3	1116.3	1119.3	1128.9	1133.4
17.5°	1062.5	1055.2	1055.6	1053.4	1055.6	1055.2	1062.5	1063.8	1066.1	1073.9	1079.9
20°	1034.1	1029.6	1028.9	1023.7	1028.9	1029.6	1034.1	1034.1	1037.1	1040.8	1046.7
22.5°	1008.0	1006.5	1007.0	1001.3	1007.0	1006.5	1008.0	1009.8	1012.8	1015.3	1019.5
25°	975.6	979.3	976.3	976.3	976.3	979.3	975.6	976.3	977.0	980.8	983.7
27.5°	953.7	953.5	952.1	952.1	952.1	953.5	953.7	951.9	951.0	949.7	949.0
30°	937.1	936.3	937.8	937.8	937.8	936.3	937.1	934.1	932.6	931.9	928.9
32.5°	920.5	921.5	921.8	922.4	921.8	921.5	920.5	916.9	914.3	912.3	909.9
35°	894.8	895.6	897.8	896.4	897.8	895.6	894.8	890.4	887.4	883.0	879.3
37.5°	860.2	863.6	862.8	864.0	862.8	863.6	860.2	858.8	855.9	852.4	848.2
40°	834.1	836.3	835.6	835.6	835.6	836.3	834.1	833.4	830.4	828.2	824.4
42.5°	807.5	809.1	807.1	806.0	807.1	809.1	807.5	806.1	804.4	800.3	796.1
45°	763.7	762.2	764.5	761.5	764.5	762.2	763.7	760.7	760.1	757.1	753.4
47.5°	714.8	716.3	716.9	719.2	716.9	716.3	714.8	715.1	711.0	709.2	708.0
50°	682.2	686.6	686.6	686.0	686.6	686.6	682.2	680.8	677.8	674.9	674.9
52.5°	650.3	652.3	655.3	655.2	655.3	652.3	650.3	647.6	644.6	640.5	639.3
55°	600.8	602.3	603.7	604.5	603.7	602.3	600.8	594.8	592.6	590.4	586.6
57.5°	549.5	548.9	552.4	553.5	552.4	548.9	549.5	544.1	540.7	534.0	533.0
60°	513.3	513.3	519.2	521.5	519.2	513.3	513.3	507.5	502.3	497.8	496.3
62.5°	474.9	477.2	483.1	480.0	483.1	477.2	474.9	468.3	464.3	458.6	454.9
65°	418.5	424.4	423.7	426.7	423.7	424.4	418.5	414.8	406.7	401.5	397.1
67.5°	359.7	363.4	368.7	369.2	368.7	363.4	359.7	353.8	348.5	343.0	337.6
70°	320.0	323.7	326.7	328.9	326.7	323.7	320.0	314.1	308.1	304.4	298.5
72.5°	281.5	283.4	290.5	287.4	290.5	283.4	281.5	274.4	269.7	266.6	260.0
75°	220.7	225.9	230.4	228.2	230.4	225.9	220.7	215.6	211.9	207.5	201.5
77.5°	163.2	168.4	170.5	168.6	170.5	168.4	163.2	159.9	158.0	149.2	148.6
80°	128.9	128.2	132.6	131.9	132.6	128.2	128.9	123.7	120.0	114.8	114.8
82.5°	94.5	93.8	95.9	96.3	95.9	93.8	94.5	91.7	86.8	84.6	82.8
85°	45.9	48.2	45.1	44.5	45.1	48.2	45.9	43.0	43.0	43.0	42.2
87.5°	16.0	16.1	15.6	15.1	15.6	16.1	16.0	16.0	18.2	16.3	16.1
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	38.7	38.5	38.3	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5
95°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3
97.5°	113.2	113.1	113.0	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8
100°	141.8	142.1	142.6	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6
102.5°	174.1	174.0	174.0	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7
105°	222.6	223.1	223.5	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1
107.5°	276.8	276.5	276.3	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5
110°	312.6	312.3	311.9	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.3	349.2	349.1	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9
115°	401.4	401.2	401.1	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2
117.5°	455.1	454.5	453.9	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0
120°	491.4	491.1	490.6	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6
122.5°	527.4	526.7	526.1	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5
125°	581.2	580.3	579.5	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5
127.5°	634.4	633.4	632.4	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8
130°	670.5	669.0	667.6	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8
132.5°	705.7	704.6	703.4	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8
135°	759.6	759.1	758.7	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3
137.5°	810.2	809.4	808.6	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6
140°	844.6	843.1	841.7	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3
142.5°	876.7	875.5	874.4	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9
145°	923.6	922.7	921.9	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4
147.5°	967.4	966.1	964.9	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3
150°	994.5	993.3	991.9	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4
152.5°	1020.3	1019.3	1018.1	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2
155°	1057.2	1055.7	1054.2	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3
157.5°	1088.9	1087.7	1086.6	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4
160°	1109.0	1108.1	1107.3	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6
162.5°	1126.2	1124.9	1123.6	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7
165°	1149.4	1147.9	1146.5	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5
167.5°	1168.3	1167.0	1165.7	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0
170°	1178.6	1177.1	1175.6	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1
172.5°	1186.1	1184.7	1183.2	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1
175°	1194.6	1193.1	1191.7	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6
177.5°	1198.3	1197.0	1195.9	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1466.1	1466.1	1477.3	1484.5	1493.4	1499.3	1503.4	1507.6	1514.8	1524.2	1534.8
5°	1382.2	1385.3	1401.6	1417.9	1433.4	1446.7	1457.8	1471.1	1487.4	1507.4	1529.7
7.5°	1301.1	1312.5	1328.9	1348.8	1370.6	1390.0	1409.7	1431.6	1454.5	1484.0	1515.1
10°	1249.0	1261.5	1281.5	1306.7	1329.6	1352.6	1377.1	1400.8	1429.6	1464.5	1504.5
12.5°	1203.3	1215.3	1235.9	1263.5	1285.3	1310.6	1338.6	1369.4	1401.8	1443.8	1489.1
15°	1140.0	1154.1	1179.3	1192.6	1226.0	1256.3	1282.2	1326.7	1368.2	1411.2	1463.8
17.5°	1088.2	1096.0	1116.4	1141.2	1166.1	1200.1	1234.1	1271.1	1312.5	1365.1	1430.9
20°	1052.6	1059.3	1081.5	1107.5	1134.1	1165.3	1195.6	1232.7	1279.3	1334.8	1406.0
22.5°	1026.0	1033.2	1047.7	1075.4	1100.3	1126.1	1156.5	1200.6	1250.3	1304.7	1381.7
25°	987.4	991.8	1001.5	1023.7	1045.9	1074.9	1101.5	1143.0	1194.1	1257.8	1334.8
27.5°	950.8	955.2	963.2	979.1	999.8	1023.3	1052.3	1087.6	1139.4	1208.6	1290.4
30°	928.9	929.6	937.1	951.9	969.7	988.9	1015.6	1055.6	1104.5	1174.9	1260.7
32.5°	909.9	907.1	912.2	923.4	940.7	959.9	981.8	1021.2	1068.4	1137.6	1225.8
35°	877.8	876.3	874.1	883.7	898.5	913.3	932.6	962.2	1015.6	1080.1	1172.6
37.5°	845.1	841.5	837.5	842.0	853.5	868.9	885.6	912.0	958.0	1028.9	1117.5
40°	820.8	817.8	815.6	814.1	824.4	839.2	851.9	877.0	920.0	987.4	1074.9
42.5°	794.1	792.3	789.5	787.4	796.1	807.3	820.5	842.7	885.6	949.0	1031.6
45°	751.1	749.7	748.2	746.7	751.9	762.2	772.6	788.9	826.0	887.4	962.2
47.5°	703.3	701.3	701.9	699.6	704.6	711.6	718.9	736.3	771.8	821.5	876.2
50°	668.9	668.2	668.2	668.2	669.7	677.8	684.5	697.8	730.4	780.0	819.3
52.5°	636.3	633.2	633.2	634.4	637.1	642.2	646.6	661.1	689.5	730.3	765.9
55°	585.2	579.3	577.8	579.3	581.5	586.0	590.4	602.3	626.7	657.0	677.8
57.5°	528.6	525.4	523.4	523.7	524.9	528.5	531.9	544.8	564.0	579.9	593.2
60°	488.9	490.4	483.7	485.2	485.2	488.1	493.3	501.5	517.8	528.9	542.2
62.5°	451.6	449.5	447.6	445.5	445.5	446.7	453.6	460.1	473.9	479.8	490.1
65°	393.3	393.3	388.9	390.4	391.2	386.0	389.6	397.1	406.0	408.1	417.8
67.5°	334.4	332.3	329.8	327.5	327.5	327.2	329.0	332.7	339.4	340.2	347.6
70°	294.1	292.6	291.9	289.6	286.7	290.4	288.1	291.9	295.6	296.3	300.8
72.5°	255.0	253.4	252.1	250.0	248.7	248.3	248.5	252.8	255.2	254.2	259.3
75°	199.3	197.7	196.3	192.6	192.6	190.4	191.1	194.1	197.1	194.8	199.3
77.5°	146.4	141.8	141.5	142.5	140.0	140.4	139.6	139.1	140.4	140.6	144.6
80°	112.6	107.4	108.9	108.1	107.4	106.7	105.2	105.9	106.7	107.4	109.6
82.5°	81.2	80.8	79.3	79.1	78.4	76.4	75.6	76.9	77.7	77.2	78.8
85°	41.5	39.3	40.7	40.0	40.7	40.0	37.8	37.8	39.3	38.5	40.0
87.5°	17.2	17.0	15.8	15.8	14.7	14.8	13.7	13.9	14.0	13.7	14.4
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	36.8	36.1	34.6	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8
95°	70.5	69.7	68.0	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5
97.5°	109.9	109.0	107.7	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6
100°	138.9	138.3	137.2	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0
102.5°	172.0	171.4	170.0	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8
105°	222.1	222.1	220.2	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7
107.5°	274.8	274.2	273.4	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7
110°	310.4	309.5	309.2	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	345.9	344.9	344.9	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4
115°	401.1	400.8	401.2	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8
117.5°	456.1	456.1	456.7	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7
120°	492.8	493.0	494.1	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1
122.5°	530.1	530.7	531.2	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0
125°	585.3	586.2	586.5	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2
127.5°	639.9	641.1	641.6	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2
130°	675.6	676.5	677.1	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8
132.5°	710.9	711.8	712.3	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4
135°	763.2	763.9	764.2	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3
137.5°	814.5	815.3	814.8	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2
140°	847.5	847.7	847.5	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1
142.5°	879.1	879.3	878.9	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9
145°	925.6	925.8	925.2	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1
147.5°	969.3	969.3	968.7	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3
150°	996.4	996.4	996.0	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6
152.5°	1020.8	1020.5	1020.2	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7
155°	1056.5	1055.6	1055.5	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1087.6	1086.7	1086.6	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0
160°	1106.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4
162.5°	1124.6	1123.6	1123.4	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5
165°	1147.2	1145.9	1145.9	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8
167.5°	1165.7	1164.4	1164.2	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4
170°	1175.6	1174.2	1174.2	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0
172.5°	1183.7	1182.4	1182.4	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2
175°	1192.4	1191.1	1191.1	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9
177.5°	1196.5	1195.4	1195.4	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1538.4	1541.3	1551.4	1558.6	1566.9	1571.6	1576.3	1579.9	1584.6	1585.8	1603.0
5°	1545.2	1560.1	1586.0	1605.2	1628.9	1654.8	1672.6	1680.8	1702.2	1720.0	1755.6
7.5°	1543.3	1574.9	1614.0	1654.5	1698.1	1738.4	1773.4	1814.9	1844.4	1888.7	1932.4
10°	1541.5	1583.8	1634.1	1686.0	1746.7	1803.0	1853.4	1909.7	1956.3	2017.8	2070.4
12.5°	1536.2	1587.3	1657.3	1718.5	1792.3	1870.0	1944.7	2016.9	2058.3	2160.7	2209.1
15°	1523.1	1583.8	1671.1	1764.5	1866.0	1957.8	2052.7	2128.3	2250.4	2340.1	2397.1
17.5°	1497.8	1582.9	1686.6	1799.1	1922.6	2043.6	2151.1	2265.7	2395.4	2503.8	2619.3
20°	1486.0	1579.3	1694.9	1819.3	1947.5	2084.5	2206.8	2344.5	2486.1	2592.7	2740.8
22.5°	1464.1	1569.8	1694.3	1833.0	1970.0	2111.8	2254.8	2393.7	2557.1	2704.1	2845.2
25°	1428.2	1546.7	1675.7	1830.4	1991.2	2133.4	2304.5	2489.0	2659.4	2848.3	2989.0
27.5°	1390.5	1517.1	1646.2	1790.3	1963.1	2131.9	2347.2	2555.6	2763.9	2927.1	3031.2
30°	1361.5	1484.5	1617.9	1763.0	1934.1	2134.9	2375.6	2603.0	2806.0	2946.0	3004.5
32.5°	1330.1	1454.8	1572.8	1725.1	1907.4	2133.1	2393.4	2630.9	2808.4	2901.6	2890.2
35°	1280.8	1385.3	1500.1	1646.7	1861.5	2120.1	2403.8	2633.4	2742.3	2722.3	2571.2
37.5°	1209.7	1297.5	1410.6	1571.1	1808.2	2092.6	2383.0	2555.3	2548.3	2385.4	2166.4
40°	1165.3	1240.0	1349.0	1517.9	1766.7	2074.9	2350.4	2462.3	2367.5	2140.0	1877.8
42.5°	1107.1	1176.0	1285.0	1458.6	1721.1	2038.7	2288.2	2320.6	2135.1	1873.4	1633.0
45°	1017.1	1077.8	1190.4	1369.7	1652.7	1960.0	2136.4	2057.1	1807.4	1537.1	1354.2
47.5°	920.3	983.4	1091.7	1275.9	1553.7	1841.7	1925.7	1757.1	1500.8	1281.5	1113.5
50°	859.3	920.0	1026.0	1211.9	1486.7	1744.5	1779.3	1561.5	1326.0	1133.4	995.6
52.5°	797.7	854.9	959.0	1145.5	1408.5	1631.9	1610.4	1388.5	1171.9	1007.8	899.6
55°	706.0	760.1	859.3	1034.1	1273.4	1450.4	1372.6	1160.7	981.5	854.1	771.8
57.5°	623.9	675.7	761.4	919.3	1127.3	1249.0	1150.0	971.5	828.9	730.8	669.5
60°	568.2	614.1	695.6	842.3	1023.0	1115.6	1017.9	860.1	740.0	661.5	606.7
62.5°	515.4	555.4	630.9	764.0	921.1	998.8	899.8	766.4	664.2	594.6	548.0
65°	435.5	471.8	538.6	642.2	771.1	823.0	737.8	629.6	550.4	498.5	467.4
67.5°	362.7	393.5	451.1	532.7	627.5	665.3	600.5	516.8	457.0	415.4	390.7
70°	314.1	340.7	386.0	456.3	542.2	571.1	510.4	441.5	397.8	364.5	341.5
72.5°	273.1	292.8	333.8	388.1	459.9	482.9	440.5	379.8	339.1	314.1	295.9
75°	208.1	224.4	251.1	294.8	344.5	357.8	325.9	288.1	260.7	243.0	228.8
77.5°	150.1	162.1	181.3	208.3	242.7	254.7	234.5	209.3	189.4	177.3	169.5
80°	113.3	123.0	139.3	161.5	182.2	188.9	177.0	157.8	143.7	137.0	130.4
82.5°	83.7	89.2	99.0	114.0	128.3	136.2	126.1	114.5	107.0	100.9	98.4
85°	42.2	45.1	49.7	55.5	64.5	67.4	63.7	60.7	56.3	52.6	52.6
87.5°	16.0	16.4	18.7	20.3	23.1	25.4	25.4	24.7	24.7	24.2	23.8
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	24.2	25.6	27.1	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5
95°	56.9	58.4	59.9	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3
97.5°	99.7	100.8	101.9	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8
100°	129.2	130.4	131.7	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6
102.5°	162.6	163.3	164.1	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7
105°	212.1	212.5	212.9	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1
107.5°	269.9	270.1	270.4	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5
110°	306.2	306.6	307.0	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	343.7	343.9	344.1	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9
115°	400.5	401.1	401.7	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2
117.5°	457.1	457.5	458.0	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0
120°	493.3	494.6	495.9	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6
122.5°	529.9	530.7	531.7	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5
125°	585.9	586.4	587.1	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5
127.5°	638.5	639.8	641.1	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8
130°	673.4	675.1	676.7	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8
132.5°	708.0	709.7	711.4	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8
135°	760.5	761.8	763.0	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3
137.5°	809.3	810.3	811.3	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6
140°	843.1	844.1	845.2	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3
142.5°	873.9	875.1	876.1	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9
145°	921.5	921.9	922.4	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4
147.5°	964.0	964.8	965.5	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3
150°	993.1	993.4	993.8	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4
152.5°	1017.3	1017.9	1018.4	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2
155°	1054.7	1054.7	1054.7	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3
157.5°	1086.8	1086.6	1086.3	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4
160°	1106.9	1106.5	1106.2	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6
162.5°	1124.8	1124.3	1123.7	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7
165°	1148.1	1147.5	1146.9	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5
167.5°	1166.6	1165.7	1164.9	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0
170°	1177.1	1176.3	1175.4	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1
172.5°	1185.4	1184.6	1183.7	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1
175°	1194.0	1193.2	1192.4	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6
177.5°	1197.8	1197.1	1196.5	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1608.9	1609.5	1616.1	1620.8	1618.4	1621.4	1622.6
5°	1757.8	1784.5	1798.6	1808.9	1809.7	1810.4	1816.4
7.5°	1969.0	1997.5	2018.5	2050.1	2059.6	2070.4	2067.3
10°	2123.1	2165.2	2201.6	2220.8	2241.6	2271.9	2247.5
12.5°	2267.0	2341.8	2397.1	2427.0	2446.6	2452.7	2440.7
15°	2504.5	2602.3	2654.9	2653.4	2720.1	2749.0	2703.8
17.5°	2722.3	2812.5	2884.8	2921.9	2977.4	2989.7	2984.1
20°	2855.6	2954.2	3010.5	3074.2	3103.0	3129.0	3133.4
22.5°	2970.6	3059.0	3119.5	3172.5	3196.7	3209.0	3216.4
25°	3089.0	3158.6	3194.9	3213.4	3220.1	3218.6	3209.0
27.5°	3080.8	3086.2	3046.2	3006.9	2971.8	2932.2	2918.6
30°	3000.9	2938.6	2827.5	2764.6	2671.9	2598.6	2628.2
32.5°	2790.5	2666.6	2541.8	2404.2	2290.3	2257.9	2225.2
35°	2381.5	2163.8	2036.4	1888.2	1828.9	1769.7	1728.9
37.5°	1926.7	1758.3	1607.1	1510.2	1450.9	1413.3	1393.3
40°	1665.9	1514.1	1389.7	1311.2	1265.9	1223.7	1217.9
42.5°	1458.0	1316.8	1223.1	1160.6	1117.2	1099.3	1086.3
45°	1194.1	1095.6	1032.6	988.2	959.3	948.2	933.4
47.5°	1010.7	941.0	893.8	863.6	841.8	833.5	832.4
50°	908.1	850.4	815.6	791.8	774.9	771.8	760.1
52.5°	831.1	781.1	753.9	733.2	721.0	712.7	709.1
55°	721.5	688.2	663.7	651.9	642.2	634.0	634.0
57.5°	631.3	603.4	587.3	577.2	574.2	568.4	564.8
60°	575.6	551.9	539.3	530.4	524.4	525.2	518.5
62.5°	521.0	505.7	493.6	484.7	477.7	477.8	478.2
65°	443.7	431.9	423.0	420.0	415.6	410.4	411.9
67.5°	376.0	364.9	358.0	352.9	351.4	348.6	352.9
70°	327.4	319.2	314.1	309.6	308.1	308.9	312.6
72.5°	283.0	277.2	273.8	271.7	268.4	268.6	271.1
75°	222.3	217.8	214.8	212.6	211.9	211.9	211.9
77.5°	163.2	162.2	160.9	157.6	157.8	158.6	158.8
80°	128.9	126.7	125.9	124.4	122.2	120.7	124.4
82.5°	96.3	94.1	93.3	93.0	89.6	89.4	92.5
85°	51.8	49.7	50.3	49.7	49.7	48.9	48.9
87.5°	23.4	23.0	22.5	23.2	22.6	22.1	23.5
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	38.2	38.8	39.0	38.7	38.5	38.3	38.0
95°	72.1	73.0	73.4	73.4	73.4	73.4	73.4
97.5°	111.9	112.8	113.2	113.2	113.1	113.0	112.9
100°	140.2	140.8	141.4	141.8	142.1	142.6	143.0
102.5°	173.3	173.9	174.2	174.1	174.0	174.0	173.9
105°	222.1	222.1	222.3	222.6	223.1	223.5	223.9
107.5°	276.2	276.8	277.0	276.8	276.5	276.3	276.1
110°	312.1	312.9	313.1	312.6	312.3	311.9	311.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.9	348.9	349.4	349.3	349.2	349.1	349.0
115°	401.4	401.6	401.6	401.4	401.2	401.1	400.8
117.5°	456.0	456.0	455.6	455.1	454.5	453.9	453.3
120°	492.4	492.2	491.8	491.4	491.1	490.6	490.2
122.5°	529.0	528.5	527.9	527.4	526.7	526.1	525.6
125°	583.6	582.8	581.9	581.2	580.3	579.5	578.6
127.5°	637.6	636.4	635.4	634.4	633.4	632.4	631.5
130°	673.9	673.2	671.9	670.5	669.0	667.6	666.1
132.5°	708.9	707.8	706.8	705.7	704.6	703.4	702.3
135°	761.5	760.6	760.0	759.6	759.1	758.7	758.4
137.5°	812.8	811.8	811.0	810.2	809.4	808.6	807.9
140°	847.1	846.9	846.0	844.6	843.1	841.7	840.2
142.5°	878.7	878.4	877.8	876.7	875.5	874.4	873.3
145°	925.2	924.9	924.4	923.6	922.7	921.9	921.1
147.5°	969.3	969.3	968.7	967.4	966.1	964.9	963.7
150°	996.4	996.4	995.7	994.5	993.3	991.9	990.7
152.5°	1021.4	1021.8	1021.4	1020.3	1019.3	1018.1	1017.1
155°	1058.2	1058.9	1058.7	1057.2	1055.7	1054.2	1052.8
157.5°	1089.3	1090.2	1090.1	1088.9	1087.7	1086.6	1085.3
160°	1108.6	1109.7	1109.7	1109.0	1108.1	1107.3	1106.5
162.5°	1126.7	1127.8	1127.6	1126.2	1124.9	1123.6	1122.3
165°	1149.7	1150.9	1150.8	1149.4	1147.9	1146.5	1145.0
167.5°	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4
170°	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2
172.5°	1186.4	1187.6	1187.6	1186.1	1184.7	1183.2	1181.7
175°	1194.9	1196.2	1196.0	1194.6	1193.1	1191.7	1190.1
177.5°	1198.4	1199.5	1199.4	1198.3	1197.0	1195.9	1194.7
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7

(END OF REPORT)