

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: P332479-940

Luminaire Tested: **S123RDIW-S1165D1030U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332479-940
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: S123RDIW-S1165D1030U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7266.1 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

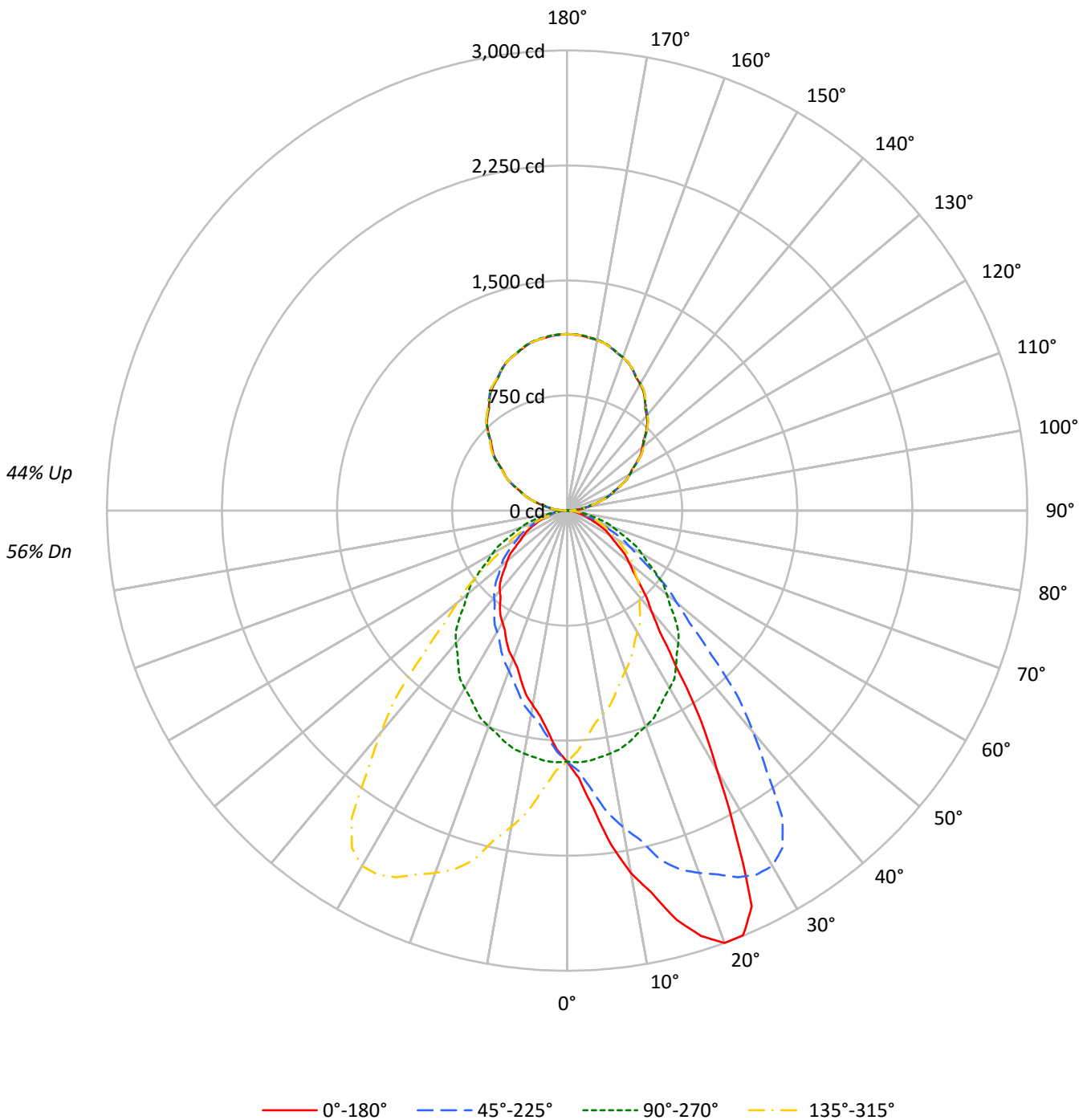
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	54	53	49
2	91	84	78	74	85	79	74	69	68	64	61	59	56	53	50	48	46	42
3	84	75	68	62	78	70	64	59	61	56	52	52	49	46	45	42	40	36
4	77	67	59	53	71	62	56	50	54	49	45	47	43	40	40	37	35	32
5	71	60	52	46	66	56	49	44	49	44	39	43	38	35	37	33	31	28
6	66	54	46	40	61	51	43	38	44	39	35	39	34	31	33	30	27	25
7	61	49	41	36	57	46	39	34	41	35	31	35	31	28	31	27	25	22
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	28	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	26	46	35	29	25	32	26	22	28	23	20	24	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17623	17623	17623	17623
5°	21007	17698	15584	17698
10°	26230	17596	14080	17596
15°	30788	17416	12840	17416
20°	34360	17148	11786	17148
25°	33812	16865	11137	16865
30°	24304	16604	10470	16604
35°	16227	16264	10038	16264
40°	11956	15855	9591	15855
45°	10029	15139	9155	15139
50°	8848	14200	8544	14200
55°	7760	13127	7707	13127
60°	6910	12099	7061	12099
65°	6069	10998	6569	10998
70°	4765	10014	5998	10014
75°	4196	8746	5481	8746
80°	3651	7426	5387	7426
85°	2939	5965	5718	5965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	2.2
10°-20°	503.0	6.9
20°-30°	790.2	10.9
30°-40°	824.4	11.3
40°-50°	705.6	9.7
50°-60°	537.8	7.4
60°-70°	344.7	4.7
70°-80°	165.8	2.3
80°-90°	47.3	0.7
90°-100°	74.9	1.0
100°-110°	224.2	3.1
110°-120°	381.4	5.2
120°-130°	501.7	6.9
130°-140°	563.9	7.8
140°-150°	554.3	7.6
150°-160°	466.6	6.4
160°-170°	310.6	4.3
170°-180°	108.8	1.5
0°-30°	1454.2	20.0
0°-40°	2278.7	31.4
0°-60°	3522.0	48.5
0°-90°	4079.8	56.1
90°-120°	680.6	9.4
90°-150°	2300.3	31.7
90°-180°	3186.0	43.8
0°-180°	7266.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1637	1637	1637	1637	1637	
5°	1944	1638	1442	1638	1944	201
15°	2763	1563	1152	1563	2763	783
25°	2847	1420	938	1420	2847	1224
35°	1235	1238	764	1238	1235	810
45°	659	994	601	994	659	518
55°	414	700	411	700	414	374
65°	238	432	258	432	238	234
75°	101	210	132	210	101	108
85°	24	48	46	48	24	28
90°	27	1	27	1	27	14
95°	70	53	70	53	70	72
105°	215	203	215	203	215	228
115°	385	384	385	384	385	381
125°	556	562	556	562	556	497
135°	728	729	728	729	728	560
145°	884	884	884	884	884	552
155°	1011	1013	1011	1013	1011	465
165°	1100	1103	1100	1103	1100	310
175°	1143	1147	1143	1147	1143	109
180°	1150	1150	1150	1150	1150	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1743.7	1746.0	1738.7	1737.6	1729.1	1726.9	1726.9	1715.1	1707.8	1698.4	1692.7
5°	1944.2	1955.4	1949.8	1937.2	1916.1	1911.2	1897.9	1876.9	1853.1	1823.6	1809.6
7.5°	2194.5	2209.8	2204.0	2184.4	2162.4	2144.7	2107.0	2072.2	2023.2	1980.3	1943.6
10°	2399.8	2383.6	2371.0	2352.1	2331.7	2298.8	2259.6	2205.6	2143.2	2094.2	2039.5
12.5°	2553.3	2550.7	2534.7	2515.2	2486.5	2455.2	2407.0	2341.3	2268.8	2197.9	2135.4
15°	2762.8	2767.0	2756.5	2736.1	2695.5	2640.1	2567.2	2539.9	2436.2	2359.1	2282.0
17.5°	2907.7	2906.9	2905.5	2877.3	2835.8	2796.4	2728.8	2656.9	2563.0	2454.4	2350.5
20°	2999.6	2992.7	2994.1	2962.5	2931.7	2886.1	2820.2	2715.8	2638.8	2513.3	2406.0
22.5°	2997.4	2996.1	3001.3	2990.5	2968.1	2933.2	2881.4	2793.2	2694.8	2568.2	2447.6
25°	2846.9	2841.3	2874.3	2883.3	2919.1	2925.3	2909.9	2861.6	2768.4	2638.0	2488.8
27.5°	2382.7	2379.5	2440.7	2517.2	2614.2	2689.6	2762.5	2797.7	2768.4	2675.0	2525.5
30°	1955.4	2021.2	2052.1	2162.8	2286.2	2433.4	2562.3	2684.9	2715.1	2674.5	2551.8
32.5°	1623.4	1681.0	1706.7	1801.8	1916.7	2089.1	2282.5	2456.2	2578.9	2609.9	2536.1
35°	1234.9	1235.6	1294.5	1336.5	1443.1	1620.4	1808.2	2040.9	2272.2	2447.4	2465.6
37.5°	985.4	988.9	1024.5	1066.4	1146.3	1240.1	1405.5	1598.9	1866.1	2135.1	2292.8
40°	850.9	857.1	883.8	925.1	982.6	1053.4	1182.3	1364.6	1587.4	1886.7	2131.3
42.5°	764.5	774.7	788.5	820.3	855.9	922.2	1026.4	1167.2	1369.9	1652.9	1935.1
45°	658.8	664.4	674.9	689.6	721.8	768.1	838.2	932.8	1101.1	1328.8	1611.2
47.5°	581.1	578.2	589.2	601.2	622.7	654.2	701.2	778.4	898.4	1081.1	1320.7
50°	528.4	527.7	535.5	544.6	564.9	588.0	626.6	684.7	780.1	931.5	1150.8
52.5°	479.1	481.8	487.2	498.6	513.3	532.0	566.6	608.5	690.4	821.0	1003.9
55°	413.5	415.6	423.3	429.6	440.1	459.1	480.8	515.9	571.9	663.0	813.7
57.5°	358.0	357.0	364.4	366.0	377.9	393.3	410.1	437.3	478.0	545.7	647.2
60°	321.0	318.9	325.2	330.1	336.4	349.0	363.0	389.7	422.0	471.7	558.6
62.5°	287.3	286.3	291.0	295.9	301.1	312.5	324.3	344.8	370.3	412.2	481.2
65°	238.3	240.4	242.5	244.6	247.4	254.4	265.6	279.6	297.2	326.6	376.4
67.5°	187.3	189.4	190.1	194.4	200.5	204.8	211.7	224.2	236.3	261.2	289.4
70°	151.4	150.7	151.4	153.5	161.2	168.9	178.0	187.2	194.8	212.3	236.2
72.5°	130.1	128.9	130.6	131.1	134.8	137.0	142.7	151.2	161.2	173.1	190.2
75°	100.9	100.9	100.9	100.9	103.7	105.1	107.3	109.3	112.8	118.4	131.1
77.5°	74.5	74.7	75.7	76.4	77.0	77.8	79.1	81.1	82.4	85.3	90.9
80°	58.9	59.6	58.9	59.6	59.6	61.0	61.7	63.8	64.5	67.9	70.1
82.5°	44.3	43.9	44.3	45.0	45.0	46.4	46.5	48.1	48.2	50.0	52.2
85°	23.8	22.5	23.8	23.1	24.5	23.1	23.8	25.2	25.2	25.9	28.7
87.5°	11.1	12.0	10.9	11.3	11.2	11.7	11.5	11.4	12.3	11.6	11.7
90°	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3	22.5	21.7	19.1
92.5°	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9	35.3	34.7	33.2
95°	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5	67.7	66.9	65.3
97.5°	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5	105.6	104.6	103.4
100°	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0	133.4	132.8	131.8
102.5°	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8	165.2	164.6	163.3
105°	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2	213.2	213.2	211.4
107.5°	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6	263.9	263.2	262.5
110°	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8	298.0	297.2	296.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1	332.2	331.2	331.1
115°	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2	385.0	384.9	385.2
117.5°	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9	437.9	438.0	438.5
120°	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0	473.1	473.4	474.4
122.5°	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5	509.0	509.5	510.1
125°	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2	562.0	562.8	563.2
127.5°	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3	614.5	615.5	616.0
130°	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9	648.7	649.5	650.1
132.5°	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6	682.5	683.5	683.9
135°	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9	732.7	733.5	733.8
137.5°	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2	782.0	782.9	782.4
140°	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6	813.8	814.0	813.8
142.5°	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9	844.1	844.4	844.0
145°	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6	888.8	888.9	888.3
147.5°	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7	956.7	956.7	956.3
152.5°	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4	980.2	979.8	979.6
155°	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2	1014.4	1013.6	1013.4
157.5°	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1	1044.3	1043.4	1043.3
160°	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5	1062.5	1061.5	1061.5
162.5°	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8	1079.9	1078.9	1078.7
165°	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8	1101.5	1100.4	1100.4
167.5°	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0	1117.9
170°	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5	1127.5
172.5°	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9	1136.7	1135.4	1135.4
175°	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1	1145.0	1143.7	1143.7
177.5°	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8	1148.8	1147.9	1147.9
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1690.5	1688.8	1681.0	1672.0	1660.2	1652.3	1646.2	1642.8	1632.7	1620.4	1611.9
5°	1794.9	1773.9	1751.4	1724.1	1698.9	1672.9	1656.8	1637.9	1614.8	1588.9	1570.7
7.5°	1906.7	1865.5	1821.1	1775.3	1730.0	1689.3	1653.5	1622.7	1585.9	1548.7	1522.7
10°	1992.5	1932.2	1869.9	1806.1	1747.9	1693.3	1651.2	1609.9	1565.8	1523.0	1490.8
12.5°	2070.5	1991.1	1919.2	1840.8	1766.5	1701.1	1640.6	1591.9	1538.8	1493.3	1456.5
15°	2169.2	2087.9	2000.9	1881.8	1783.0	1700.3	1626.7	1562.9	1498.4	1442.3	1406.6
17.5°	2261.4	2139.0	2022.2	1922.9	1794.5	1691.1	1601.3	1525.1	1454.3	1394.8	1350.9
20°	2299.5	2181.0	2054.2	1927.3	1801.2	1685.6	1581.1	1497.0	1423.4	1356.1	1315.5
22.5°	2322.5	2188.3	2054.8	1918.4	1784.4	1664.3	1560.9	1468.5	1388.7	1324.7	1274.6
25°	2349.3	2189.5	2042.3	1907.7	1771.0	1640.7	1518.0	1420.0	1333.7	1265.8	1212.5
27.5°	2367.0	2179.0	2005.0	1855.5	1716.8	1587.0	1474.6	1370.6	1283.2	1211.2	1154.1
30°	2370.3	2170.5	1976.4	1814.5	1673.7	1554.5	1435.4	1335.9	1243.3	1166.9	1113.7
32.5°	2374.8	2149.8	1937.7	1765.8	1621.5	1503.5	1395.5	1300.5	1205.8	1130.5	1076.1
35°	2356.3	2138.3	1879.0	1681.3	1537.0	1422.7	1325.3	1237.7	1144.5	1071.6	1016.3
37.5°	2276.6	2092.8	1818.2	1586.4	1435.4	1329.5	1250.2	1173.8	1088.3	1009.7	957.5
40°	2196.5	2047.9	1771.0	1528.6	1370.9	1262.2	1190.8	1128.4	1045.7	972.1	916.1
42.5°	2077.1	1986.8	1726.2	1468.0	1298.0	1193.3	1133.0	1074.5	1001.9	927.2	874.5
45°	1858.0	1869.9	1634.4	1371.5	1197.0	1091.9	1035.2	994.5	930.1	868.3	814.4
47.5°	1583.2	1694.7	1526.6	1268.8	1090.7	992.0	942.4	906.9	863.4	802.9	753.7
50°	1403.8	1562.9	1440.3	1199.9	1024.0	925.9	876.7	848.0	810.2	762.5	715.6
52.5°	1238.4	1409.3	1336.0	1123.0	951.6	861.9	814.0	790.3	760.3	715.4	673.0
55°	1010.0	1183.0	1166.3	1007.1	843.1	762.5	726.1	699.5	679.1	645.5	611.9
57.5°	816.9	981.1	989.7	878.2	747.5	667.9	636.5	616.4	603.2	577.8	546.7
60°	695.3	846.0	875.4	791.3	679.1	609.0	578.2	562.0	551.6	531.3	507.4
62.5°	594.3	722.6	755.9	695.4	613.5	548.0	523.8	508.3	501.1	483.6	462.5
65°	454.9	561.4	593.6	560.0	517.2	464.7	445.1	431.8	425.4	415.6	400.2
67.5°	342.1	419.6	455.0	431.3	415.9	382.6	370.1	363.0	357.4	350.7	337.8
70°	274.7	332.2	368.6	362.3	349.7	332.2	323.1	318.2	312.5	307.0	295.8
72.5°	220.9	260.5	294.6	297.8	287.5	284.0	276.0	273.9	270.5	263.8	257.6
75°	146.5	173.8	197.6	206.8	211.0	214.5	211.0	210.3	209.6	203.9	200.5
77.5°	96.0	110.8	125.7	141.3	147.8	152.7	153.7	156.3	154.4	151.5	149.8
80°	73.6	77.1	87.6	100.9	111.5	115.7	118.4	119.8	119.1	118.4	115.7
82.5°	53.4	56.4	61.3	70.6	79.5	86.5	88.2	87.9	89.4	89.9	87.6
85°	28.7	29.4	30.9	32.3	37.2	44.9	47.0	48.3	49.8	49.8	45.6
87.5°	12.3	11.1	11.8	11.3	12.6	12.8	15.7	18.1	19.1	17.2	17.7
90°	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9	2.9	4.9	7.0
92.5°	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8	23.2	24.6	25.9
95°	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3	54.7	56.1	57.5
97.5°	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7	95.7	96.8	97.8
100°	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9	124.0	125.3	126.4
102.5°	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4	156.1	156.9	157.6
105°	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3	203.7	204.1	204.5
107.5°	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0	259.1	259.4	259.7
110°	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6	294.0	294.4	294.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8	330.0	330.2	330.5
115°	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0	384.5	385.1	385.8
117.5°	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5	438.9	439.3	439.7
120°	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5	473.7	474.9	476.1
122.5°	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9	508.8	509.7	510.5
125°	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0	562.5	563.1	563.7
127.5°	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8	613.1	614.4	615.6
130°	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1	646.7	648.3	649.9
132.5°	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2	679.8	681.4	683.1
135°	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1	730.2	731.5	732.6
137.5°	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1	777.0	778.0	779.0
140°	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5	809.6	810.6	811.5
142.5°	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2	839.2	840.2	841.2
145°	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4	884.8	885.2	885.6
147.5°	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9	925.6	926.3	927.1
150°	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1	953.5	953.9	954.3
152.5°	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2	976.8	977.3	977.9
155°	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8	1043.6	1043.3	1043.0
160°	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3	1062.9	1062.5	1062.1
162.5°	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7	1080.1	1079.5	1079.0
165°	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0	1102.4	1101.9	1101.3
167.5°	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0	1120.2	1119.4	1118.6
170°	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0	1130.2	1129.4	1128.6
172.5°	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0	1138.2	1137.4	1136.6
175°	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4	1146.6	1145.8	1145.0
177.5°	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8	1150.1	1149.5	1148.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1609.2	1601.9	1596.9	1585.6	1578.3	1570.5	1562.6	1567.7	1567.1	1566.6	1566.6
5°	1555.2	1539.1	1524.4	1505.5	1493.5	1478.8	1467.6	1466.2	1469.0	1459.2	1453.6
7.5°	1501.6	1479.6	1458.7	1437.9	1415.8	1398.1	1387.0	1381.8	1374.7	1368.6	1362.4
10°	1464.1	1438.2	1417.8	1391.9	1368.1	1347.0	1333.7	1324.6	1319.7	1314.8	1305.7
12.5°	1425.4	1400.1	1374.1	1344.8	1322.1	1297.7	1287.7	1277.6	1268.1	1262.7	1250.2
15°	1368.8	1335.9	1308.5	1277.6	1252.4	1228.6	1214.6	1194.3	1191.4	1184.5	1171.8
17.5°	1312.0	1276.2	1238.6	1215.7	1187.2	1162.4	1141.1	1134.3	1114.2	1106.6	1095.7
20°	1267.1	1234.2	1205.5	1175.4	1134.0	1110.9	1094.0	1084.9	1068.8	1059.0	1052.0
22.5°	1228.4	1195.0	1161.7	1126.6	1092.5	1066.6	1054.3	1040.1	1031.3	1017.5	1010.0
25°	1173.2	1136.8	1096.8	1059.0	1034.5	1014.9	995.2	982.6	970.0	963.7	949.7
27.5°	1109.0	1070.9	1033.6	1004.9	974.7	955.4	937.6	926.4	911.2	900.6	892.9
30°	1073.7	1028.9	996.6	970.7	932.1	913.9	900.6	886.6	875.4	864.2	856.5
32.5°	1032.8	991.8	961.3	929.2	899.6	879.7	862.5	850.2	840.6	829.9	822.2
35°	968.6	934.2	902.7	870.5	848.7	828.4	808.1	797.5	788.5	778.6	771.7
37.5°	910.5	878.4	848.5	817.9	790.9	774.5	758.0	750.0	737.7	731.1	724.0
40°	874.7	843.1	810.9	781.5	753.4	740.8	726.1	714.2	702.9	698.0	690.4
42.5°	835.4	803.9	776.7	745.0	722.0	704.9	691.3	678.3	669.9	662.7	658.4
45°	777.2	749.2	722.6	691.1	669.3	654.6	639.2	627.2	619.6	614.7	606.9
47.5°	720.8	692.8	665.7	638.2	617.2	600.4	585.0	576.7	566.4	560.4	555.2
50°	679.8	654.6	625.9	600.7	579.6	562.8	550.2	539.7	530.6	522.8	519.3
52.5°	642.3	615.4	590.6	566.9	544.8	525.8	514.2	503.2	496.3	487.5	483.5
55°	580.3	554.4	533.3	510.2	488.5	472.3	458.3	448.5	441.6	431.8	426.1
57.5°	522.1	498.9	473.8	453.7	431.3	417.7	406.1	392.8	384.2	376.5	371.0
60°	482.9	456.3	434.5	415.6	396.0	378.4	367.9	357.4	348.3	340.6	335.7
62.5°	441.9	418.7	398.1	377.5	359.5	344.3	332.1	323.2	315.2	310.3	305.4
65°	379.2	361.0	339.9	323.1	306.3	295.1	285.3	277.5	272.0	268.4	264.2
67.5°	321.4	303.7	285.3	268.9	257.6	249.1	242.6	236.0	233.3	228.7	226.0
70°	283.8	265.6	249.5	236.9	225.7	219.4	215.2	210.3	207.4	201.9	199.0
72.5°	242.9	229.7	218.1	207.8	198.8	193.1	187.7	181.6	177.2	171.0	168.2
75°	191.4	179.4	170.3	163.3	157.7	150.0	142.3	136.0	133.8	131.8	131.1
77.5°	141.7	134.1	127.5	121.6	114.7	109.1	107.4	105.9	105.6	104.4	104.4
80°	111.5	104.4	99.5	92.5	88.3	88.3	88.3	86.9	87.6	87.6	87.6
82.5°	82.8	76.4	73.7	71.2	70.4	70.9	70.9	71.2	70.8	71.9	71.3
85°	42.7	43.4	44.9	44.1	44.9	44.9	46.3	45.6	46.3	44.9	46.3
87.5°	17.5	19.6	20.7	21.8	22.9	22.8	23.5	23.7	24.4	24.6	24.7
90°	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3	24.1	24.9	25.5
92.5°	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9	36.6	37.3	37.5
95°	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5	69.3	70.1	70.4
97.5°	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5	107.4	108.3	108.7
100°	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0	134.6	135.2	135.7
102.5°	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8	166.4	167.0	167.3
105°	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2	213.2	213.2	213.4
107.5°	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6	265.2	265.8	266.0
110°	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8	299.6	300.4	300.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1	334.0	335.0	335.5
115°	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2	385.5	385.7	385.7
117.5°	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9	437.8	437.8	437.5
120°	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0	472.8	472.6	472.3
122.5°	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5	507.9	507.5	506.8
125°	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2	560.4	559.6	558.8
127.5°	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3	612.2	611.1	610.0
130°	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9	647.1	646.3	645.2
132.5°	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6	680.6	679.7	678.7
135°	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9	731.1	730.3	729.8
137.5°	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2	780.3	779.5	778.7
140°	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6	813.3	813.2	812.3
142.5°	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9	843.7	843.6	842.8
145°	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6	888.3	888.1	887.6
147.5°	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7	956.7	956.7	956.1
152.5°	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4	980.8	981.1	980.8
155°	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2	1016.0	1016.8	1016.6
157.5°	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1	1046.0	1046.8	1046.7
160°	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5	1064.5	1065.5	1065.6
162.5°	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8	1081.8	1082.9	1082.7
165°	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8	1103.9	1105.2	1105.1
167.5°	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0
170°	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1
172.5°	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9	1139.2	1140.4	1140.3
175°	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1	1147.4	1148.5	1148.4
177.5°	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8	1150.8	1151.7	1151.6
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1559.9	1559.2	1559.9	1557.6	1559.9	1559.2	1559.9	1566.6	1566.6	1567.1	1567.7
5°	1451.4	1450.8	1448.7	1442.3	1448.7	1450.8	1451.4	1453.6	1459.2	1469.0	1466.2
7.5°	1356.8	1355.8	1349.7	1349.9	1349.7	1355.8	1356.8	1362.4	1368.6	1374.7	1381.8
10°	1300.8	1301.5	1293.1	1288.2	1293.1	1301.5	1300.8	1305.7	1314.8	1319.7	1324.6
12.5°	1246.4	1243.2	1236.4	1231.0	1236.4	1243.2	1246.4	1250.2	1262.7	1268.1	1277.6
15°	1174.7	1167.6	1150.8	1152.2	1150.8	1167.6	1174.7	1171.8	1184.5	1191.4	1194.3
17.5°	1090.1	1084.9	1084.7	1074.9	1084.7	1084.9	1090.1	1095.7	1106.6	1114.2	1134.3
20°	1040.8	1037.2	1038.7	1028.9	1038.7	1037.2	1040.8	1052.0	1059.0	1068.8	1084.9
22.5°	1002.1	998.5	992.7	989.6	992.7	998.5	1002.1	1010.0	1017.5	1031.3	1040.1
25°	945.5	939.9	934.2	937.7	934.2	939.9	945.5	949.7	963.7	970.0	982.6
27.5°	888.9	884.7	879.0	878.3	879.0	884.7	888.9	892.9	900.6	911.2	926.4
30°	852.9	848.7	846.0	842.4	846.0	848.7	852.9	856.5	864.2	875.4	886.6
32.5°	816.5	815.6	810.7	809.9	810.7	815.6	816.5	822.2	829.9	840.6	850.2
35°	768.8	764.6	763.2	763.9	763.2	764.6	768.8	771.7	778.6	788.5	797.5
37.5°	723.5	717.9	715.4	712.9	715.4	717.9	723.5	724.0	731.1	737.7	750.0
40°	691.1	685.5	684.0	682.6	684.0	685.5	691.1	690.4	698.0	702.9	714.2
42.5°	654.6	652.4	651.5	649.0	651.5	652.4	654.6	658.4	662.7	669.9	678.3
45°	604.8	604.1	599.9	601.4	599.9	604.1	604.8	606.9	614.7	619.6	627.2
47.5°	552.4	549.3	546.4	548.3	546.4	549.3	552.4	555.2	560.4	566.4	576.7
50°	516.6	515.1	508.8	510.2	508.8	515.1	516.6	519.3	522.8	530.6	539.7
52.5°	480.6	475.3	473.0	472.1	473.0	475.3	480.6	483.5	487.5	496.3	503.2
55°	421.2	414.9	412.1	410.7	412.1	414.9	421.2	426.1	431.8	441.6	448.5
57.5°	362.9	361.2	359.0	360.5	359.0	361.2	362.9	371.0	376.5	384.2	392.8
60°	328.7	328.7	328.7	328.0	328.7	328.7	328.7	335.7	340.6	348.3	357.4
62.5°	302.4	300.7	300.1	301.1	300.1	300.7	302.4	305.4	310.3	315.2	323.2
65°	262.2	261.4	258.6	257.9	258.6	261.4	262.2	264.2	268.4	272.0	277.5
67.5°	224.2	221.6	220.8	219.8	220.8	221.6	224.2	226.0	228.7	233.3	236.0
70°	195.6	194.1	189.9	190.6	189.9	194.1	195.6	199.0	201.9	207.4	210.3
72.5°	164.7	163.3	162.5	161.5	162.5	163.3	164.7	168.2	171.0	177.2	181.6
75°	130.4	129.7	128.9	131.8	128.9	129.7	130.4	131.1	131.8	133.8	136.0
77.5°	104.4	104.4	104.9	103.7	104.9	104.4	104.4	104.4	104.4	105.6	105.9
80°	87.6	87.6	86.9	86.9	86.9	87.6	87.6	87.6	87.6	87.6	86.9
82.5°	70.3	70.8	71.2	70.1	71.2	70.8	70.3	71.3	71.9	70.8	71.2
85°	46.3	45.6	47.0	46.3	47.0	45.6	46.3	46.3	44.9	46.3	45.6
87.5°	25.9	24.9	25.0	25.6	25.0	24.9	25.9	24.7	24.6	24.4	23.7
90°	25.9	26.3	26.7	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3
92.5°	37.2	37.0	36.7	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9
95°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5
97.5°	108.6	108.6	108.5	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5
100°	136.1	136.5	136.9	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0
102.5°	167.2	167.1	167.0	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8
105°	213.8	214.2	214.6	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2
107.5°	265.8	265.6	265.3	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6
110°	300.2	299.8	299.4	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	335.4	335.3	335.3	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1
115°	385.5	385.2	385.0	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2
117.5°	436.9	436.4	435.8	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9
120°	471.9	471.4	471.1	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0
122.5°	506.3	505.8	505.2	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5
125°	558.0	557.2	556.4	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2
127.5°	609.1	608.2	607.3	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3
130°	643.8	642.4	641.1	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9
132.5°	677.5	676.5	675.4	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6
135°	729.3	729.0	728.5	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9
137.5°	777.9	777.2	776.4	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2
140°	810.9	809.6	808.2	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6
142.5°	841.8	840.7	839.6	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9
145°	886.8	886.0	885.2	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6
147.5°	928.9	927.6	926.5	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7
150°	954.9	953.7	952.5	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7
152.5°	979.7	978.7	977.6	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4
155°	1015.1	1013.7	1012.4	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2
157.5°	1045.5	1044.5	1043.3	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1
160°	1064.8	1064.0	1063.2	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5
162.5°	1081.5	1080.1	1078.9	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8
165°	1103.7	1102.2	1100.8	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8
167.5°	1121.8	1120.5	1119.3	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5
170°	1131.7	1130.2	1128.8	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2
172.5°	1138.9	1137.5	1136.0	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9
175°	1147.0	1145.6	1144.2	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1
177.5°	1150.5	1149.4	1148.3	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1562.6	1570.5	1578.3	1585.6	1596.9	1601.9	1609.2	1611.9	1620.4	1632.7	1642.8
5°	1467.6	1478.8	1493.5	1505.5	1524.4	1539.1	1555.2	1570.7	1588.9	1614.8	1637.9
7.5°	1387.0	1398.1	1415.8	1437.9	1458.7	1479.6	1501.6	1522.7	1548.7	1585.9	1622.7
10°	1333.7	1347.0	1368.1	1391.9	1417.8	1438.2	1464.1	1490.8	1523.0	1565.8	1609.9
12.5°	1287.7	1297.7	1322.1	1344.8	1374.1	1400.1	1425.4	1456.5	1493.3	1538.8	1591.9
15°	1214.6	1228.6	1252.4	1277.6	1308.5	1335.9	1368.8	1406.6	1442.3	1498.4	1562.9
17.5°	1141.1	1162.4	1187.2	1215.7	1238.6	1276.2	1312.0	1350.9	1394.8	1454.3	1525.1
20°	1094.0	1110.9	1134.0	1175.4	1205.5	1234.2	1267.1	1315.5	1356.1	1423.4	1497.0
22.5°	1054.3	1066.6	1092.5	1126.6	1161.7	1195.0	1228.4	1274.6	1324.7	1388.7	1468.5
25°	995.2	1014.9	1034.5	1059.0	1096.8	1136.8	1173.2	1212.5	1265.8	1333.7	1420.0
27.5°	937.6	955.4	974.7	1004.9	1033.6	1070.9	1109.0	1154.1	1211.2	1283.2	1370.6
30°	900.6	913.9	932.1	970.7	996.6	1028.9	1073.7	1113.7	1166.9	1243.3	1335.9
32.5°	862.5	879.7	899.6	929.2	961.3	991.8	1032.8	1076.1	1130.5	1205.8	1300.5
35°	808.1	828.4	848.7	870.5	902.7	934.2	968.6	1016.3	1071.6	1144.5	1237.7
37.5°	758.0	774.5	790.9	817.9	848.5	878.4	910.5	957.5	1009.7	1088.3	1173.8
40°	726.1	740.8	753.4	781.5	810.9	843.1	874.7	916.1	972.1	1045.7	1128.4
42.5°	691.3	704.9	722.0	745.0	776.7	803.9	835.4	874.5	927.2	1001.9	1074.5
45°	639.2	654.6	669.3	691.1	722.6	749.2	777.2	814.4	868.3	930.1	994.5
47.5°	585.0	600.4	617.2	638.2	665.7	692.8	720.8	753.7	802.9	863.4	906.9
50°	550.2	562.8	579.6	600.7	625.9	654.6	679.8	715.6	762.5	810.2	848.0
52.5°	514.2	525.8	544.8	566.9	590.6	615.4	642.3	673.0	715.4	760.3	790.3
55°	458.3	472.3	488.5	510.2	533.3	554.4	580.3	611.9	645.5	679.1	699.5
57.5°	406.1	417.7	431.3	453.7	473.8	498.9	522.1	546.7	577.8	603.2	616.4
60°	367.9	378.4	396.0	415.6	434.5	456.3	482.9	507.4	531.3	551.6	562.0
62.5°	332.1	344.3	359.5	377.5	398.1	418.7	441.9	462.5	483.6	501.1	508.3
65°	285.3	295.1	306.3	323.1	339.9	361.0	379.2	400.2	415.6	425.4	431.8
67.5°	242.6	249.1	257.6	268.9	285.3	303.7	321.4	337.8	350.7	357.4	363.0
70°	215.2	219.4	225.7	236.9	249.5	265.6	283.8	295.8	307.0	312.5	318.2
72.5°	187.7	193.1	198.8	207.8	218.1	229.7	242.9	257.6	263.8	270.5	273.9
75°	142.3	150.0	157.7	163.3	170.3	179.4	191.4	200.5	203.9	209.6	210.3
77.5°	107.4	109.1	114.7	121.6	127.5	134.1	141.7	149.8	151.5	154.4	156.3
80°	88.3	88.3	88.3	92.5	99.5	104.4	111.5	115.7	118.4	119.1	119.8
82.5°	70.9	70.9	70.4	71.2	73.7	76.4	82.8	87.6	89.9	89.4	87.9
85°	46.3	44.9	44.9	44.1	44.9	43.4	42.7	45.6	49.8	49.8	48.3
87.5°	23.5	22.8	22.9	21.8	20.7	19.6	17.5	17.7	17.2	19.1	18.1
90°	22.5	21.7	19.1	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9
92.5°	35.3	34.7	33.2	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8
95°	67.7	66.9	65.3	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3
97.5°	105.6	104.6	103.4	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7
100°	133.4	132.8	131.8	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9
102.5°	165.2	164.6	163.3	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4
105°	213.2	213.2	211.4	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3
107.5°	263.9	263.2	262.5	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0
110°	298.0	297.2	296.9	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.2	331.2	331.1	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8
115°	385.0	384.9	385.2	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0
117.5°	437.9	438.0	438.5	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5
120°	473.1	473.4	474.4	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5
122.5°	509.0	509.5	510.1	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9
125°	562.0	562.8	563.2	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0
127.5°	614.5	615.5	616.0	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8
130°	648.7	649.5	650.1	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1
132.5°	682.5	683.5	683.9	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2
135°	732.7	733.5	733.8	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1
137.5°	782.0	782.9	782.4	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1
140°	813.8	814.0	813.8	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5
142.5°	844.1	844.4	844.0	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2
145°	888.8	888.9	888.3	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4
147.5°	930.7	930.7	930.1	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9
150°	956.7	956.7	956.3	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1
152.5°	980.2	979.8	979.6	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2
155°	1014.4	1013.6	1013.4	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1044.3	1043.4	1043.3	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8
160°	1062.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3
162.5°	1079.9	1078.9	1078.7	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7
165°	1101.5	1100.4	1100.4	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0
167.5°	1119.3	1118.0	1117.9	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0
170°	1128.8	1127.5	1127.5	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0
172.5°	1136.7	1135.4	1135.4	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0
175°	1145.0	1143.7	1143.7	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4
177.5°	1148.8	1147.9	1147.9	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.2	1652.3	1660.2	1672.0	1681.0	1688.8	1690.5	1692.7	1698.4	1707.8	1715.1
5°	1656.8	1672.9	1698.9	1724.1	1751.4	1773.9	1794.9	1809.6	1823.6	1853.1	1876.9
7.5°	1653.5	1689.3	1730.0	1775.3	1821.1	1865.5	1906.7	1943.6	1980.3	2023.2	2072.2
10°	1651.2	1693.3	1747.9	1806.1	1869.9	1932.2	1992.5	2039.5	2094.2	2143.2	2205.6
12.5°	1640.6	1701.1	1766.5	1840.8	1919.2	1991.1	2070.5	2135.4	2197.9	2268.8	2341.3
15°	1626.7	1700.3	1783.0	1881.8	2000.9	2087.9	2169.2	2282.0	2359.1	2436.2	2539.9
17.5°	1601.3	1691.1	1794.5	1922.9	2022.2	2139.0	2261.4	2350.5	2454.4	2563.0	2656.9
20°	1581.1	1685.6	1801.2	1927.3	2054.2	2181.0	2299.5	2406.0	2513.3	2638.8	2715.8
22.5°	1560.9	1664.3	1784.4	1918.4	2054.8	2188.3	2322.5	2447.6	2568.2	2694.8	2793.2
25°	1518.0	1640.7	1771.0	1907.7	2042.3	2189.5	2349.3	2488.8	2638.0	2768.4	2861.6
27.5°	1474.6	1587.0	1716.8	1855.5	2005.0	2179.0	2367.0	2525.5	2675.0	2768.4	2797.7
30°	1435.4	1554.5	1673.7	1814.5	1976.4	2170.5	2370.3	2551.8	2674.5	2715.1	2684.9
32.5°	1395.5	1503.5	1621.5	1765.8	1937.7	2149.8	2374.8	2536.1	2609.9	2578.9	2456.2
35°	1325.3	1422.7	1537.0	1681.3	1879.0	2138.3	2356.3	2465.6	2447.4	2272.2	2040.9
37.5°	1250.2	1329.5	1435.4	1586.4	1818.2	2092.8	2276.6	2292.8	2135.1	1866.1	1598.9
40°	1190.8	1262.2	1370.9	1528.6	1771.0	2047.9	2196.5	2131.3	1886.7	1587.4	1364.6
42.5°	1133.0	1193.3	1298.0	1468.0	1726.2	1986.8	2077.1	1935.1	1652.9	1369.9	1167.2
45°	1035.2	1091.9	1197.0	1371.5	1634.4	1869.9	1858.0	1611.2	1328.8	1101.1	932.8
47.5°	942.4	992.0	1090.7	1268.8	1526.6	1694.7	1583.2	1320.7	1081.1	898.4	778.4
50°	876.7	925.9	1024.0	1199.9	1440.3	1562.9	1403.8	1150.8	931.5	780.1	684.7
52.5°	814.0	861.9	951.6	1123.0	1336.0	1409.3	1238.4	1003.9	821.0	690.4	608.5
55°	726.1	762.5	843.1	1007.1	1166.3	1183.0	1010.0	813.7	663.0	571.9	515.9
57.5°	636.5	667.9	747.5	878.2	989.7	981.1	816.9	647.2	545.7	478.0	437.3
60°	578.2	609.0	679.1	791.3	875.4	846.0	695.3	558.6	471.7	422.0	389.7
62.5°	523.8	548.0	613.5	695.4	755.9	722.6	594.3	481.2	412.2	370.3	344.8
65°	445.1	464.7	517.2	560.0	593.6	561.4	454.9	376.4	326.6	297.2	279.6
67.5°	370.1	382.6	415.9	431.3	455.0	419.6	342.1	289.4	261.2	236.3	224.2
70°	323.1	332.2	349.7	362.3	368.6	332.2	274.7	236.2	212.3	194.8	187.2
72.5°	276.0	284.0	287.5	297.8	294.6	260.5	220.9	190.2	173.1	161.2	151.2
75°	211.0	214.5	211.0	206.8	197.6	173.8	146.5	131.1	118.4	112.8	109.3
77.5°	153.7	152.7	147.8	141.3	125.7	110.8	96.0	90.9	85.3	82.4	81.1
80°	118.4	115.7	111.5	100.9	87.6	77.1	73.6	70.1	67.9	64.5	63.8
82.5°	88.2	86.5	79.5	70.6	61.3	56.4	53.4	52.2	50.0	48.2	48.1
85°	47.0	44.9	37.2	32.3	30.9	29.4	28.7	28.7	25.9	25.2	25.2
87.5°	15.7	12.8	12.6	11.3	11.8	11.1	12.3	11.7	11.6	12.3	11.4
90°	2.9	4.9	7.0	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3
92.5°	23.2	24.6	25.9	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9
95°	54.7	56.1	57.5	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5
97.5°	95.7	96.8	97.8	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5
100°	124.0	125.3	126.4	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0
102.5°	156.1	156.9	157.6	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8
105°	203.7	204.1	204.5	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2
107.5°	259.1	259.4	259.7	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6
110°	294.0	294.4	294.8	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	330.0	330.2	330.5	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1
115°	384.5	385.1	385.8	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2
117.5°	438.9	439.3	439.7	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9
120°	473.7	474.9	476.1	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0
122.5°	508.8	509.7	510.5	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5
125°	562.5	563.1	563.7	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2
127.5°	613.1	614.4	615.6	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3
130°	646.7	648.3	649.9	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9
132.5°	679.8	681.4	683.1	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6
135°	730.2	731.5	732.6	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9
137.5°	777.0	778.0	779.0	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2
140°	809.6	810.6	811.5	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6
142.5°	839.2	840.2	841.2	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9
145°	884.8	885.2	885.6	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6
147.5°	925.6	926.3	927.1	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7
150°	953.5	953.9	954.3	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7
152.5°	976.8	977.3	977.9	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4
155°	1012.7	1012.7	1012.7	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2
157.5°	1043.6	1043.3	1043.0	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1
160°	1062.9	1062.5	1062.1	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5
162.5°	1080.1	1079.5	1079.0	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8
165°	1102.4	1101.9	1101.3	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8
167.5°	1120.2	1119.4	1118.6	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5
170°	1130.2	1129.4	1128.6	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2
172.5°	1138.2	1137.4	1136.6	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9
175°	1146.6	1145.8	1145.0	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1
177.5°	1150.1	1149.5	1148.8	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1726.9	1726.9	1729.1	1737.6	1738.7	1746.0	1743.7
5°	1897.9	1911.2	1916.1	1937.2	1949.8	1955.4	1944.2
7.5°	2107.0	2144.7	2162.4	2184.4	2204.0	2209.8	2194.5
10°	2259.6	2298.8	2331.7	2352.1	2371.0	2383.6	2399.8
12.5°	2407.0	2455.2	2486.5	2515.2	2534.7	2550.7	2553.3
15°	2567.2	2640.1	2695.5	2736.1	2756.5	2767.0	2762.8
17.5°	2728.8	2796.4	2835.8	2877.3	2905.5	2906.9	2907.7
20°	2820.2	2886.1	2931.7	2962.5	2994.1	2992.7	2999.6
22.5°	2881.4	2933.2	2968.1	2990.5	3001.3	2996.1	2997.4
25°	2909.9	2925.3	2919.1	2883.3	2874.3	2841.3	2846.9
27.5°	2762.5	2689.6	2614.2	2517.2	2440.7	2379.5	2382.7
30°	2562.3	2433.4	2286.2	2162.8	2052.1	2021.2	1955.4
32.5°	2282.5	2089.1	1916.7	1801.8	1706.7	1681.0	1623.4
35°	1808.2	1620.4	1443.1	1336.5	1294.5	1235.6	1234.9
37.5°	1405.5	1240.1	1146.3	1066.4	1024.5	988.9	985.4
40°	1182.3	1053.4	982.6	925.1	883.8	857.1	850.9
42.5°	1026.4	922.2	855.9	820.3	788.5	774.7	764.5
45°	838.2	768.1	721.8	689.6	674.9	664.4	658.8
47.5°	701.2	654.2	622.7	601.2	589.2	578.2	581.1
50°	626.6	588.0	564.9	544.6	535.5	527.7	528.4
52.5°	566.6	532.0	513.3	498.6	487.2	481.8	479.1
55°	480.8	459.1	440.1	429.6	423.3	415.6	413.5
57.5°	410.1	393.3	377.9	366.0	364.4	357.0	358.0
60°	363.0	349.0	336.4	330.1	325.2	318.9	321.0
62.5°	324.3	312.5	301.1	295.9	291.0	286.3	287.3
65°	265.6	254.4	247.4	244.6	242.5	240.4	238.3
67.5°	211.7	204.8	200.5	194.4	190.1	189.4	187.3
70°	178.0	168.9	161.2	153.5	151.4	150.7	151.4
72.5°	142.7	137.0	134.8	131.1	130.6	128.9	130.1
75°	107.3	105.1	103.7	100.9	100.9	100.9	100.9
77.5°	79.1	77.8	77.0	76.4	75.7	74.7	74.5
80°	61.7	61.0	59.6	59.6	58.9	59.6	58.9
82.5°	46.5	46.4	45.0	45.0	44.3	43.9	44.3
85°	23.8	23.1	24.5	23.1	23.8	22.5	23.8
87.5°	11.5	11.7	11.2	11.3	10.9	12.0	11.1
90°	24.1	24.9	25.5	25.9	26.3	26.7	27.1
92.5°	36.6	37.3	37.5	37.2	37.0	36.7	36.5
95°	69.3	70.1	70.4	70.4	70.4	70.4	70.4
97.5°	107.4	108.3	108.7	108.6	108.6	108.5	108.4
100°	134.6	135.2	135.7	136.1	136.5	136.9	137.3
102.5°	166.4	167.0	167.3	167.2	167.1	167.0	166.9
105°	213.2	213.2	213.4	213.8	214.2	214.6	215.0
107.5°	265.2	265.8	266.0	265.8	265.6	265.3	265.0
110°	299.6	300.4	300.6	300.2	299.8	299.4	299.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	334.0	335.0	335.5	335.4	335.3	335.3	335.2
115°	385.5	385.7	385.7	385.5	385.2	385.0	384.9
117.5°	437.8	437.8	437.5	436.9	436.4	435.8	435.2
120°	472.8	472.6	472.3	471.9	471.4	471.1	470.6
122.5°	507.9	507.5	506.8	506.3	505.8	505.2	504.6
125°	560.4	559.6	558.8	558.0	557.2	556.4	555.6
127.5°	612.2	611.1	610.0	609.1	608.2	607.3	606.4
130°	647.1	646.3	645.2	643.8	642.4	641.1	639.6
132.5°	680.6	679.7	678.7	677.5	676.5	675.4	674.3
135°	731.1	730.3	729.8	729.3	729.0	728.5	728.2
137.5°	780.3	779.5	778.7	777.9	777.2	776.4	775.7
140°	813.3	813.2	812.3	810.9	809.6	808.2	806.7
142.5°	843.7	843.6	842.8	841.8	840.7	839.6	838.6
145°	888.3	888.1	887.6	886.8	886.0	885.2	884.4
147.5°	930.7	930.7	930.1	928.9	927.6	926.5	925.2
150°	956.7	956.7	956.1	954.9	953.7	952.5	951.3
152.5°	980.8	981.1	980.8	979.7	978.7	977.6	976.6
155°	1016.0	1016.8	1016.6	1015.1	1013.7	1012.4	1010.9
157.5°	1046.0	1046.8	1046.7	1045.5	1044.5	1043.3	1042.1
160°	1064.5	1065.5	1065.6	1064.8	1064.0	1063.2	1062.4
162.5°	1081.8	1082.9	1082.7	1081.5	1080.1	1078.9	1077.5
165°	1103.9	1105.2	1105.1	1103.7	1102.2	1100.8	1099.5
167.5°	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0
170°	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5
172.5°	1139.2	1140.4	1140.3	1138.9	1137.5	1136.0	1134.7
175°	1147.4	1148.5	1148.4	1147.0	1145.6	1144.2	1142.8
177.5°	1150.8	1151.7	1151.6	1150.5	1149.4	1148.3	1147.2
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0

(END OF REPORT)