

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: P333677-940

Luminaire Tested: **S125RDIW-S610D1560U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333677-940
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: S125RDIW-S610D1560U940-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6963.8 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Indirect

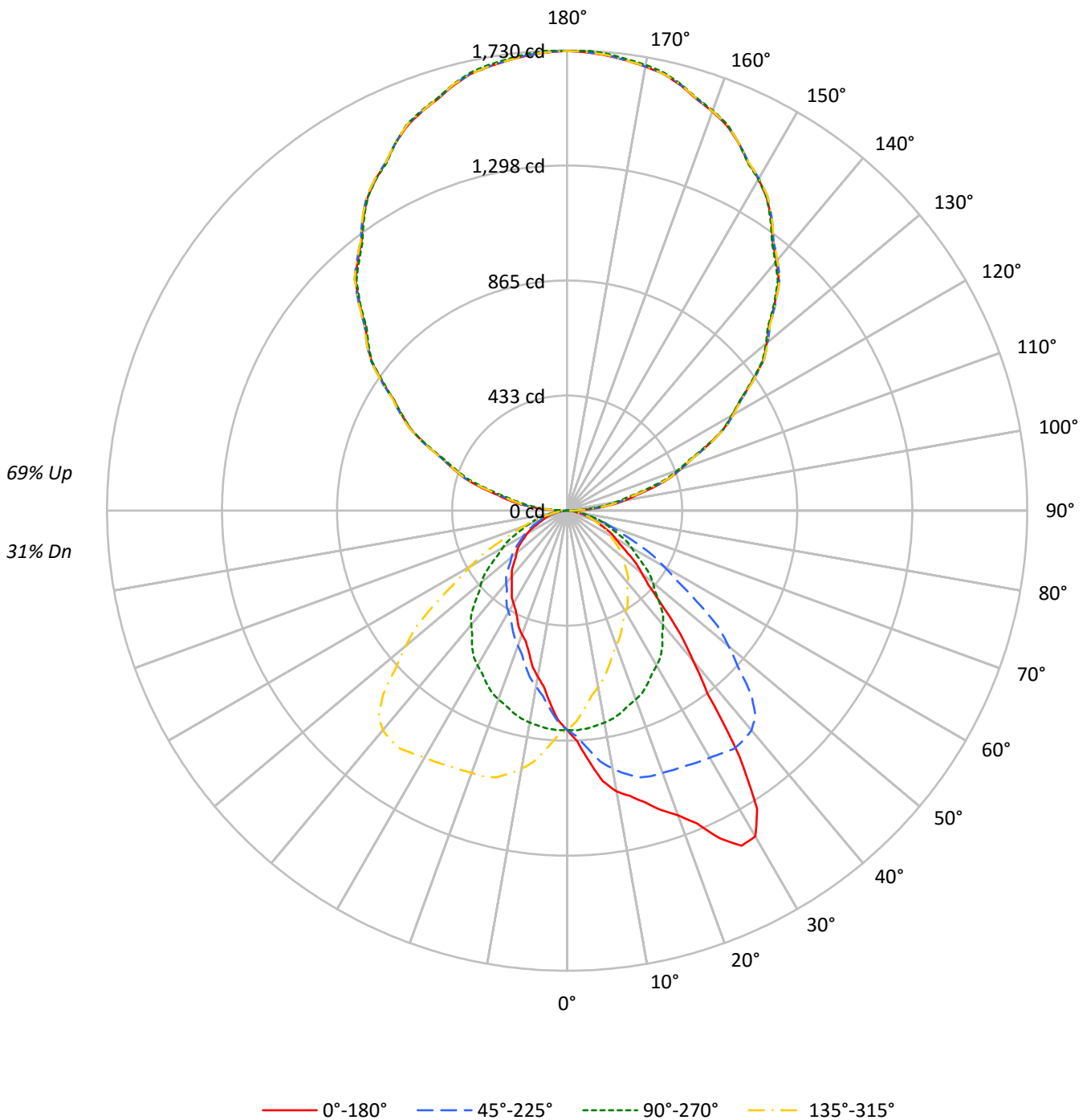
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	34	34	33	26
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	26	24	19
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	54	47	41	59	49	43	38	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	18	16	14	12
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	15	13	12	9
10	45	33	26	22	40	30	24	20	25	20	17	19	16	14	14	12	11	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5329	5329	5329	5329
5°	6131	5336	4713	5336
10°	7033	5309	4158	5309
15°	7596	5255	3697	5255
20°	8377	5192	3413	5192
25°	9694	5108	3167	5108
30°	10549	5020	3006	5020
35°	8898	4917	2858	4917
40°	6214	4731	2731	4731
45°	4610	4483	2606	4483
50°	3676	4224	2498	4224
55°	3120	3902	2403	3902
60°	2696	3614	2250	3614
65°	2402	3304	1936	3304
70°	2111	3025	1766	3025
75°	1827	2620	1657	2620
80°	1387	2205	1387	2205
85°	1156	1734	1312	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	1.1
10°-20°	231.9	3.3
20°-30°	367.7	5.3
30°-40°	443.4	6.4
40°-50°	396.0	5.7
50°-60°	303.6	4.4
60°-70°	197.3	2.8
70°-80°	95.9	1.4
80°-90°	26.7	0.4
90°-100°	115.7	1.7
100°-110°	341.8	4.9
110°-120°	578.9	8.3
120°-130°	761.9	10.9
130°-140°	853.7	12.3
140°-150°	836.7	12.0
150°-160°	702.8	10.1
160°-170°	467.2	6.7
170°-180°	163.5	2.3
0°-30°	678.7	9.7
0°-40°	1122.1	16.1
0°-60°	1821.7	26.2
0°-90°	2141.6	30.8
90°-120°	1036.5	14.9
90°-150°	3488.8	50.1
90°-180°	4822.0	69.2
0°-180°	6963.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	825	825	825	825	825	
5°	946	823	727	823	946	94
15°	1136	786	553	786	1136	326
25°	1360	717	444	717	1360	625
35°	1129	624	362	624	1129	682
45°	505	491	285	491	505	403
55°	277	346	213	346	277	251
65°	157	216	127	216	157	156
75°	73	105	66	105	73	78
85°	16	23	18	23	16	19
90°	32	1	32	1	32	19
95°	116	87	116	87	116	118
105°	334	307	334	307	334	353
115°	585	580	585	580	585	579
125°	851	846	851	846	851	760
135°	1104	1100	1104	1100	1104	852
145°	1338	1333	1338	1333	1338	835
155°	1525	1525	1525	1525	1525	702
165°	1654	1658	1654	1658	1654	466
175°	1717	1724	1717	1724	1717	163
180°	1728	1728	1728	1728	1728	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2
2.5°	868.0	867.5	868.5	865.5	865.9	861.2	861.2	857.6	853.1	849.5	847.9
5°	945.7	946.5	945.0	940.0	936.6	931.5	925.8	915.6	907.1	899.0	892.6
7.5°	1025.8	1026.3	1021.8	1020.3	1011.7	1005.5	992.7	978.9	966.6	951.0	939.1
10°	1072.5	1072.1	1067.4	1063.6	1056.1	1046.7	1034.1	1017.9	1002.6	985.7	969.5
12.5°	1099.6	1098.7	1097.2	1092.6	1085.7	1077.3	1066.7	1050.7	1031.9	1013.3	994.4
15°	1136.1	1133.7	1129.4	1123.6	1113.7	1103.9	1092.1	1077.9	1059.9	1038.9	1021.3
17.5°	1181.3	1181.4	1174.7	1166.7	1153.3	1136.0	1117.7	1094.8	1070.3	1047.2	1028.5
20°	1218.8	1217.7	1210.9	1195.4	1180.2	1158.5	1137.5	1109.4	1079.6	1049.4	1026.0
22.5°	1272.4	1269.8	1262.8	1242.2	1218.6	1190.7	1158.6	1124.3	1088.2	1054.0	1023.3
25°	1360.4	1358.3	1344.4	1320.7	1287.5	1244.5	1202.5	1155.4	1103.6	1058.5	1021.3
27.5°	1420.5	1418.3	1408.0	1388.3	1357.6	1312.4	1255.5	1192.7	1127.9	1066.0	1012.2
30°	1414.5	1419.6	1418.3	1409.2	1386.1	1345.4	1293.0	1222.2	1145.2	1072.5	1008.4
32.5°	1329.5	1334.0	1345.9	1363.9	1365.2	1349.0	1309.7	1244.4	1164.8	1081.9	1005.4
35°	1128.6	1134.8	1157.8	1194.0	1241.4	1281.1	1289.2	1254.0	1182.5	1093.4	1000.9
37.5°	867.7	901.1	920.4	958.6	1030.2	1103.1	1173.2	1199.1	1168.7	1088.7	993.7
40°	737.1	745.2	779.8	822.8	883.1	958.9	1058.9	1131.0	1133.4	1077.9	982.3
42.5°	630.9	641.1	664.9	699.2	750.8	826.7	929.9	1025.1	1069.2	1048.0	967.4
45°	504.7	512.5	529.8	556.2	595.8	658.5	747.3	857.4	944.8	978.9	927.5
47.5°	414.6	418.8	433.8	454.0	483.3	529.0	597.6	693.2	798.1	871.6	864.3
50°	365.9	370.6	382.1	397.3	422.0	460.7	515.6	595.1	703.2	793.0	810.9
52.5°	327.9	331.8	339.0	353.5	373.8	403.5	447.8	519.9	617.1	712.5	754.0
55°	277.1	279.8	285.5	293.6	310.0	331.3	369.5	419.4	497.9	594.1	655.1
57.5°	235.2	236.6	240.2	247.7	259.0	274.6	302.2	344.5	400.8	487.4	554.7
60°	208.7	210.0	214.7	219.8	228.6	242.9	264.6	294.0	348.2	419.7	487.8
62.5°	187.5	188.3	190.4	195.5	203.1	214.2	231.2	255.3	298.4	361.1	425.4
65°	157.2	157.5	158.2	162.3	167.0	175.1	186.3	203.2	235.8	283.2	340.1
67.5°	128.0	128.5	130.9	132.3	137.2	141.5	148.1	161.0	184.0	215.9	260.1
70°	111.8	111.5	113.8	115.5	117.2	122.3	126.7	137.1	151.4	175.8	212.8
72.5°	96.6	95.8	96.8	97.4	99.6	103.1	107.5	113.9	124.8	141.7	169.9
75°	73.2	73.5	73.5	74.2	75.9	77.2	78.6	81.9	88.1	99.2	114.5
77.5°	51.4	50.8	52.3	52.4	53.4	54.9	56.1	57.4	59.9	64.6	72.4
80°	37.3	37.3	37.6	38.6	38.3	39.0	40.7	42.0	45.0	47.8	50.5
82.5°	28.6	28.4	28.6	28.9	28.8	29.4	30.1	30.3	31.5	32.8	34.8
85°	15.6	15.6	16.0	16.0	16.2	16.2	16.6	16.6	16.6	16.9	17.3
87.5°	12.4	11.9	11.5	11.3	11.4	11.8	11.1	10.6	10.3	10.0	9.8
90°	32.3	31.4	30.5	29.6	28.7	27.5	26.0	24.5	23.0	21.5	19.4
92.5°	63.5	62.8	62.2	61.5	60.8	59.6	57.5	55.6	53.6	51.6	49.0
95°	115.7	115.0	114.5	113.9	113.2	111.9	109.9	107.7	105.7	103.5	100.6
97.5°	175.4	175.0	174.7	174.3	174.0	172.7	170.8	168.8	166.8	164.9	160.8
100°	220.5	220.0	219.4	218.7	218.2	216.5	213.8	211.2	208.5	205.7	201.9
102.5°	265.7	264.9	264.0	263.2	262.4	260.5	257.6	254.7	251.7	248.8	246.8
105°	333.5	332.6	331.7	330.8	329.9	328.6	326.8	325.0	323.2	321.5	319.6
107.5°	402.9	403.0	403.1	403.1	403.1	402.7	401.8	400.9	400.0	399.1	397.8
110°	454.6	454.9	455.1	455.5	455.8	455.5	454.6	453.7	452.7	451.8	450.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	505.2	505.7	506.2	506.8	507.3	507.3	506.9	506.5	506.0	505.7	504.5
115°	585.1	585.3	585.6	585.9	586.2	586.5	586.8	587.1	587.4	587.7	587.1
117.5°	663.0	664.2	665.4	666.6	667.8	668.2	668.1	667.8	667.5	667.4	666.7
120°	716.8	718.0	719.2	720.4	721.6	722.2	722.2	722.2	722.2	722.2	721.8
122.5°	770.6	771.5	772.5	773.5	774.5	775.0	775.3	775.5	775.7	776.0	775.2
125°	851.3	851.6	851.9	852.2	852.5	852.9	853.5	854.2	854.7	855.3	855.1
127.5°	928.7	929.3	930.0	930.5	931.1	931.6	931.9	932.2	932.5	932.8	932.5
130°	980.4	981.0	981.6	982.2	982.8	983.2	983.6	983.8	984.1	984.4	983.8
132.5°	1028.8	1029.7	1030.5	1031.4	1032.2	1032.7	1033.0	1033.3	1033.6	1033.9	1034.0
135°	1104.1	1105.3	1106.5	1107.7	1108.9	1109.5	1109.5	1109.5	1109.5	1109.5	1109.2
137.5°	1177.8	1179.3	1180.8	1182.3	1183.8	1184.4	1184.0	1183.7	1183.3	1182.9	1182.2
140°	1225.1	1226.6	1228.2	1229.7	1231.1	1231.5	1231.0	1230.4	1229.8	1229.2	1228.3
142.5°	1270.3	1271.8	1273.4	1274.8	1276.3	1276.9	1276.5	1276.1	1275.8	1275.4	1274.3
145°	1338.1	1339.0	1339.9	1340.8	1341.7	1342.1	1342.1	1342.1	1342.1	1342.1	1341.2
147.5°	1396.0	1398.0	1400.0	1402.0	1404.1	1404.7	1404.0	1403.3	1402.6	1401.9	1401.1
150°	1439.0	1439.6	1440.2	1440.7	1441.4	1441.7	1441.7	1441.7	1441.7	1441.7	1440.5
152.5°	1474.5	1475.6	1476.7	1477.7	1478.8	1479.0	1478.3	1477.6	1476.9	1476.1	1475.6
155°	1525.1	1526.5	1528.0	1529.6	1531.1	1531.2	1530.0	1528.7	1527.6	1526.4	1526.1
157.5°	1567.3	1569.2	1571.2	1573.2	1575.2	1575.6	1574.4	1573.2	1572.0	1570.7	1570.5
160°	1596.3	1597.9	1599.3	1600.8	1602.3	1602.5	1601.2	1600.1	1598.8	1597.7	1597.4
162.5°	1621.0	1622.8	1624.5	1626.3	1628.0	1628.2	1626.7	1625.3	1623.9	1622.4	1622.4
165°	1654.1	1656.0	1657.8	1659.6	1661.3	1661.6	1660.5	1659.2	1658.0	1656.9	1656.5
167.5°	1680.5	1682.4	1684.3	1686.0	1687.9	1687.9	1686.1	1684.4	1682.6	1680.8	1680.8
170°	1694.5	1696.6	1698.7	1700.8	1702.9	1703.0	1701.2	1699.4	1697.6	1695.9	1695.9
172.5°	1706.4	1708.2	1710.0	1711.9	1713.8	1713.8	1712.0	1710.2	1708.4	1706.6	1706.6
175°	1717.3	1719.5	1721.5	1723.7	1725.7	1725.9	1724.1	1722.3	1720.5	1718.7	1718.7
177.5°	1723.9	1725.5	1727.2	1728.8	1730.5	1730.6	1729.2	1727.8	1726.4	1724.9	1725.1
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2
2.5°	847.9	846.1	842.5	839.3	835.2	831.7	829.2	826.3	822.4	817.9	814.0
5°	885.5	878.0	868.2	859.7	848.9	840.4	831.6	823.1	814.7	803.8	794.3
7.5°	927.0	911.7	896.7	877.9	860.8	845.5	830.9	816.1	801.6	786.2	771.3
10°	952.5	933.9	913.2	889.5	867.8	847.2	828.2	809.6	790.0	772.7	754.0
12.5°	976.3	952.3	928.7	898.8	872.7	847.5	823.3	800.1	779.1	756.7	736.6
15°	997.9	974.2	947.8	911.2	874.9	844.5	816.0	785.9	759.8	734.7	712.4
17.5°	1006.2	981.4	950.7	915.5	875.9	837.6	800.9	767.9	737.2	707.9	682.8
20°	1003.0	978.9	947.4	913.9	871.6	831.6	791.9	755.4	721.1	690.4	663.6
22.5°	995.1	970.3	939.9	904.5	864.2	821.8	779.5	740.5	704.6	672.7	643.5
25°	983.4	949.5	918.3	883.8	845.5	803.5	759.8	716.8	678.5	646.0	614.1
27.5°	971.1	928.8	889.2	854.8	814.4	776.9	734.8	690.7	650.4	617.3	584.7
30°	960.0	912.6	868.9	829.9	791.7	756.1	716.0	673.1	631.8	597.5	564.4
32.5°	946.2	895.7	847.7	802.8	765.9	730.6	694.4	653.3	613.1	577.7	544.0
35°	928.8	864.4	812.3	764.6	723.5	689.3	656.8	623.6	583.3	546.7	513.9
37.5°	906.1	833.0	772.7	720.6	677.4	643.0	617.4	587.0	550.3	515.2	484.7
40°	892.2	810.3	744.2	692.7	647.3	611.1	587.0	561.2	527.7	494.9	464.4
42.5°	873.8	789.4	715.5	661.8	616.2	581.3	557.0	534.5	506.3	475.4	442.7
45°	837.7	748.9	671.4	613.8	567.8	533.5	510.8	490.8	469.5	441.0	412.6
47.5°	790.7	706.8	625.5	562.7	517.5	485.8	463.8	448.0	432.7	408.6	380.9
50°	753.0	672.1	592.8	531.8	483.8	453.5	432.9	420.4	406.4	384.5	361.4
52.5°	708.6	636.3	558.7	496.3	450.9	422.7	402.8	390.3	378.8	360.9	338.9
55°	638.6	575.2	504.0	447.5	405.8	377.4	358.4	346.5	339.7	324.5	307.2
57.5°	557.7	512.3	449.6	395.0	358.2	330.0	316.2	306.1	298.5	287.7	275.4
60°	501.3	469.5	413.2	361.4	327.5	300.8	288.3	279.8	272.7	263.5	254.0
62.5°	444.2	421.0	372.1	327.5	296.4	273.9	262.3	254.6	246.4	240.2	231.0
65°	367.6	346.9	313.0	278.1	249.3	231.4	222.9	216.2	211.1	204.3	197.8
67.5°	285.9	277.5	254.1	230.1	209.4	193.4	186.1	181.4	175.2	171.2	166.7
70°	235.8	231.7	215.1	199.2	179.9	169.1	162.3	160.2	152.8	148.7	145.6
72.5°	191.4	189.4	179.9	168.8	155.2	145.7	139.5	137.1	132.4	129.2	127.2
75°	131.1	131.8	130.1	123.0	117.9	111.8	106.4	105.0	101.7	98.9	97.2
77.5°	82.9	86.4	86.5	86.1	84.2	80.4	78.2	77.1	73.8	72.9	72.4
80°	56.9	60.6	64.0	63.7	63.0	62.0	60.3	59.3	57.6	56.5	55.9
82.5°	37.9	41.4	44.2	46.1	45.9	44.9	43.8	43.2	43.0	42.2	42.1
85°	17.9	18.6	19.6	22.0	23.7	24.1	23.7	23.4	22.4	22.7	23.0
87.5°	9.7	9.3	9.1	8.6	7.9	8.8	9.2	8.9	8.9	8.8	8.7
90°	17.3	15.2	13.1	10.9	8.6	6.2	3.7	1.3	3.7	6.2	8.6
92.5°	46.5	44.0	41.4	39.2	37.5	35.9	34.2	32.5	34.2	35.9	37.5
95°	97.6	94.6	91.6	89.8	89.2	88.6	88.0	87.4	88.0	88.6	89.2
97.5°	156.7	152.5	148.4	146.2	146.0	145.7	145.4	145.3	145.4	145.7	146.0
100°	198.0	194.1	190.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2
102.5°	244.9	242.9	240.9	239.3	238.1	236.9	235.8	234.5	235.8	236.9	238.1
105°	317.8	316.0	314.2	312.6	311.1	309.6	308.1	306.7	308.1	309.6	311.1
107.5°	396.4	395.0	393.7	392.2	390.7	389.2	387.7	386.2	387.7	389.2	390.7
110°	450.0	449.2	448.3	447.1	445.6	444.1	442.6	441.1	442.6	444.1	445.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.4	502.2	501.1	500.2	499.4	498.6	497.8	497.0	497.8	498.6	499.4
115°	586.5	585.9	585.3	584.4	583.2	582.0	580.9	579.6	580.9	582.0	583.2
117.5°	666.2	665.7	665.1	664.6	664.1	663.5	663.0	662.5	663.0	663.5	664.1
120°	721.6	721.3	720.9	720.1	718.6	717.1	715.6	714.1	715.6	717.1	718.6
122.5°	774.5	773.6	772.8	772.2	771.7	771.2	770.6	770.1	770.6	771.2	771.7
125°	854.7	854.4	854.2	853.1	851.3	849.5	847.7	845.9	847.7	849.5	851.3
127.5°	932.1	931.7	931.4	930.7	929.6	928.6	927.6	926.6	927.6	928.6	929.6
130°	983.2	982.7	982.0	981.0	979.5	978.0	976.5	975.0	976.5	978.0	979.5
132.5°	1034.1	1034.3	1034.4	1033.2	1030.8	1028.3	1025.9	1023.4	1025.9	1028.3	1030.8
135°	1108.9	1108.6	1108.3	1107.2	1105.5	1103.7	1101.9	1100.1	1101.9	1103.7	1105.5
137.5°	1181.6	1181.0	1180.3	1179.1	1177.3	1175.6	1173.9	1172.2	1173.9	1175.6	1177.3
140°	1227.4	1226.5	1225.6	1224.4	1222.9	1221.4	1219.9	1218.4	1219.9	1221.4	1222.9
142.5°	1273.2	1272.0	1270.9	1269.7	1268.5	1267.2	1266.0	1264.7	1266.0	1267.2	1268.5
145°	1340.3	1339.4	1338.5	1337.6	1336.3	1335.2	1333.9	1332.8	1333.9	1335.2	1336.3
147.5°	1400.4	1399.7	1399.0	1398.3	1397.7	1397.0	1396.3	1395.7	1396.3	1397.0	1397.7
150°	1439.3	1438.1	1436.9	1436.5	1436.7	1437.1	1437.3	1437.6	1437.3	1437.1	1436.7
152.5°	1475.2	1474.7	1474.2	1473.7	1473.3	1472.9	1472.5	1472.0	1472.5	1472.9	1473.3
155°	1525.8	1525.5	1525.2	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1
157.5°	1570.2	1569.9	1569.6	1569.8	1570.4	1571.1	1571.7	1572.4	1571.7	1571.1	1570.4
160°	1597.1	1596.8	1596.5	1596.8	1597.7	1598.6	1599.5	1600.4	1599.5	1598.6	1597.7
162.5°	1622.3	1622.2	1622.2	1622.5	1623.2	1623.8	1624.4	1625.1	1624.4	1623.8	1623.2
165°	1656.3	1656.0	1655.6	1655.8	1656.4	1657.0	1657.6	1658.2	1657.6	1657.0	1656.4
167.5°	1680.8	1680.8	1680.8	1681.4	1682.6	1683.8	1685.0	1686.1	1685.0	1683.8	1682.6
170°	1695.9	1695.9	1695.9	1696.5	1697.6	1698.8	1700.0	1701.2	1700.0	1698.8	1697.6
172.5°	1706.6	1706.6	1706.6	1707.2	1708.4	1709.6	1710.8	1712.0	1710.8	1709.6	1708.4
175°	1718.7	1718.7	1718.7	1719.3	1720.5	1721.7	1722.9	1724.1	1722.9	1721.7	1720.5
177.5°	1725.4	1725.6	1725.8	1726.4	1727.4	1728.4	1729.3	1730.3	1729.3	1728.4	1727.4
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2
2.5°	811.4	807.5	804.9	799.4	795.6	794.0	791.0	790.2	793.2	791.0	790.8
5°	787.2	777.4	769.6	761.8	753.3	748.0	739.8	738.4	736.4	733.3	732.7
7.5°	758.3	745.5	735.5	722.6	711.4	702.4	692.2	687.4	684.7	680.8	675.6
10°	738.8	723.5	710.0	697.1	683.2	672.1	661.9	654.1	649.0	644.3	642.2
12.5°	719.5	704.0	686.7	671.1	655.6	643.0	631.8	626.7	621.1	615.5	610.8
15°	689.6	669.0	650.1	632.0	618.8	605.3	594.5	587.0	578.5	576.2	567.0
17.5°	658.0	637.7	615.5	596.6	581.3	566.3	554.5	546.0	539.6	530.8	526.6
20°	638.2	614.1	592.5	575.2	558.2	540.6	528.4	521.3	515.2	508.1	504.7
22.5°	617.1	593.5	571.3	551.1	533.9	516.5	507.8	500.4	493.6	487.0	482.5
25°	586.0	562.3	539.0	517.9	500.0	487.4	477.2	468.8	465.1	458.6	453.9
27.5°	555.4	530.1	505.9	484.9	470.8	458.4	450.1	443.4	436.7	431.1	427.0
30°	535.6	509.8	483.4	466.8	451.8	440.1	430.9	424.5	419.4	414.3	411.3
32.5°	515.8	489.2	465.7	447.8	433.7	423.5	414.1	407.9	402.5	396.9	393.3
35°	484.0	456.9	438.0	420.4	406.4	397.0	390.6	381.7	377.4	373.3	369.5
37.5°	454.6	429.4	408.8	393.4	381.4	371.9	363.6	358.8	353.5	349.8	346.7
40°	432.9	409.8	391.3	375.0	366.1	355.7	347.9	341.8	337.7	333.0	329.6
42.5°	413.4	392.0	373.9	359.3	348.3	339.4	331.9	325.8	320.7	317.3	314.4
45°	385.8	364.4	346.9	333.3	323.2	314.7	306.9	303.8	297.0	293.0	291.7
47.5°	357.3	338.2	321.2	308.7	298.3	290.3	282.9	276.8	273.0	269.0	266.9
50°	338.0	319.8	303.8	291.7	281.5	272.7	265.9	261.8	256.7	253.1	250.3
52.5°	318.8	301.8	286.0	274.3	265.5	256.7	249.1	245.0	240.2	237.8	235.9
55°	291.3	273.4	259.8	248.3	239.2	231.0	223.9	219.8	216.8	214.5	213.7
57.5°	260.1	245.9	233.4	222.9	213.5	205.8	199.6	195.7	193.1	192.7	190.6
60°	239.8	226.9	215.4	204.3	196.1	189.0	183.6	179.2	176.5	176.1	175.5
62.5°	219.5	207.1	196.4	186.6	179.3	172.5	167.4	162.4	160.8	159.1	157.6
65°	189.3	178.2	169.3	161.6	153.8	148.0	142.9	139.9	136.2	134.1	130.5
67.5°	159.7	151.1	142.6	136.1	129.9	124.5	120.3	115.7	113.2	111.6	108.9
70°	140.3	133.5	125.0	117.9	113.2	108.7	105.3	100.2	98.5	97.2	95.9
72.5°	121.8	115.8	108.7	103.0	98.3	94.1	90.2	87.8	86.1	84.7	83.9
75°	95.9	90.1	84.0	79.9	76.6	73.2	71.2	69.5	68.8	68.4	67.1
77.5°	70.4	67.3	62.4	59.2	57.0	55.6	53.8	52.9	52.9	51.4	50.9
80°	53.9	52.2	48.1	46.7	45.0	43.7	42.7	41.0	39.3	38.6	37.6
82.5°	40.0	38.3	36.7	34.5	33.2	32.3	31.3	30.7	30.9	30.0	29.4
85°	21.3	19.6	19.0	18.6	17.9	18.6	18.3	17.9	17.7	17.3	17.7
87.5°	8.9	9.4	9.5	10.5	10.1	10.8	11.1	11.1	11.4	11.8	11.7
90°	10.9	13.1	15.2	17.3	19.4	21.5	23.0	24.5	26.0	27.5	28.7
92.5°	39.2	41.4	44.0	46.5	49.0	51.6	53.6	55.6	57.5	59.6	60.8
95°	89.8	91.6	94.6	97.6	100.6	103.5	105.7	107.7	109.9	111.9	113.2
97.5°	146.2	148.4	152.5	156.7	160.8	164.9	166.8	168.8	170.8	172.7	174.0
100°	188.2	190.2	194.1	198.0	201.9	205.7	208.5	211.2	213.8	216.5	218.2
102.5°	239.3	240.9	242.9	244.9	246.8	248.8	251.7	254.7	257.6	260.5	262.4
105°	312.6	314.2	316.0	317.8	319.6	321.5	323.2	325.0	326.8	328.6	329.9
107.5°	392.2	393.7	395.0	396.4	397.8	399.1	400.0	400.9	401.8	402.7	403.1
110°	447.1	448.3	449.2	450.0	450.9	451.8	452.7	453.7	454.6	455.5	455.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	500.2	501.1	502.2	503.4	504.5	505.7	506.0	506.5	506.9	507.3	507.3
115°	584.4	585.3	585.9	586.5	587.1	587.7	587.4	587.1	586.8	586.5	586.2
117.5°	664.6	665.1	665.7	666.2	666.7	667.4	667.5	667.8	668.1	668.2	667.8
120°	720.1	720.9	721.3	721.6	721.8	722.2	722.2	722.2	722.2	722.2	721.6
122.5°	772.2	772.8	773.6	774.5	775.2	776.0	775.7	775.5	775.3	775.0	774.5
125°	853.1	854.2	854.4	854.7	855.1	855.3	854.7	854.2	853.5	852.9	852.5
127.5°	930.7	931.4	931.7	932.1	932.5	932.8	932.5	932.2	931.9	931.6	931.1
130°	981.0	982.0	982.7	983.2	983.8	984.4	984.1	983.8	983.6	983.2	982.8
132.5°	1033.2	1034.4	1034.3	1034.1	1034.0	1033.9	1033.6	1033.3	1033.0	1032.7	1032.2
135°	1107.2	1108.3	1108.6	1108.9	1109.2	1109.5	1109.5	1109.5	1109.5	1109.5	1108.9
137.5°	1179.1	1180.3	1181.0	1181.6	1182.2	1182.9	1183.3	1183.7	1184.0	1184.4	1183.8
140°	1224.4	1225.6	1226.5	1227.4	1228.3	1229.2	1229.8	1230.4	1231.0	1231.5	1231.1
142.5°	1269.7	1270.9	1272.0	1273.2	1274.3	1275.4	1275.8	1276.1	1276.5	1276.9	1276.3
145°	1337.6	1338.5	1339.4	1340.3	1341.2	1342.1	1342.1	1342.1	1342.1	1342.1	1341.7
147.5°	1398.3	1399.0	1399.7	1400.4	1401.1	1401.9	1402.6	1403.3	1404.0	1404.7	1404.1
150°	1436.5	1436.9	1438.1	1439.3	1440.5	1441.7	1441.7	1441.7	1441.7	1441.7	1441.4
152.5°	1473.7	1474.2	1474.7	1475.2	1475.6	1476.1	1476.9	1477.6	1478.3	1479.0	1478.8
155°	1525.1	1525.2	1525.5	1525.8	1526.1	1526.4	1527.6	1528.7	1530.0	1531.2	1531.1
157.5°	1569.8	1569.6	1569.9	1570.2	1570.5	1570.7	1572.0	1573.2	1574.4	1575.6	1575.2
160°	1596.8	1596.5	1596.8	1597.1	1597.4	1597.7	1598.8	1600.1	1601.2	1602.5	1602.3
162.5°	1622.5	1622.2	1622.2	1622.3	1622.4	1622.4	1623.9	1625.3	1626.7	1628.2	1628.0
165°	1655.8	1655.6	1656.0	1656.3	1656.5	1656.9	1658.0	1659.2	1660.5	1661.6	1661.3
167.5°	1681.4	1680.8	1680.8	1680.8	1680.8	1680.8	1682.6	1684.4	1686.1	1687.9	1687.9
170°	1696.5	1695.9	1695.9	1695.9	1695.9	1695.9	1697.6	1699.4	1701.2	1703.0	1702.9
172.5°	1707.2	1706.6	1706.6	1706.6	1706.6	1706.6	1708.4	1710.2	1712.0	1713.8	1713.8
175°	1719.3	1718.7	1718.7	1718.7	1718.7	1718.7	1720.5	1722.3	1724.1	1725.9	1725.7
177.5°	1726.4	1725.8	1725.6	1725.4	1725.1	1724.9	1726.4	1727.8	1729.2	1730.6	1730.5
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2
2.5°	790.5	787.5	786.7	787.7	786.7	787.5	790.5	790.8	791.0	793.2	790.2
5°	729.3	725.9	727.6	726.9	727.6	725.9	729.3	732.7	733.3	736.4	738.4
7.5°	675.5	671.3	666.8	668.2	666.8	671.3	675.5	675.6	680.8	684.7	687.4
10°	637.8	634.5	632.4	634.1	632.4	634.5	637.8	642.2	644.3	649.0	654.1
12.5°	606.1	604.1	602.4	601.6	602.4	604.1	606.1	610.8	615.5	621.1	626.7
15°	562.9	558.9	557.2	552.9	557.2	558.9	562.9	567.0	576.2	578.5	587.0
17.5°	523.2	521.8	517.5	515.6	517.5	521.8	523.2	526.6	530.8	539.6	546.0
20°	499.6	498.3	493.9	496.6	493.9	498.3	499.6	504.7	508.1	515.2	521.3
22.5°	480.1	477.2	475.7	474.9	475.7	477.2	480.1	482.5	487.0	493.6	500.4
25°	452.5	448.2	446.5	444.4	446.5	448.2	452.5	453.9	458.6	465.1	468.8
27.5°	425.1	422.7	420.4	419.9	420.4	422.7	425.1	427.0	431.1	436.7	443.4
30°	407.2	404.7	403.1	403.1	403.1	404.7	407.2	411.3	414.3	419.4	424.5
32.5°	391.2	389.3	387.6	387.4	387.6	389.3	391.2	393.3	396.9	402.5	407.9
35°	367.8	365.2	364.4	362.5	364.4	365.2	367.8	369.5	373.3	377.4	381.7
37.5°	343.7	341.4	341.3	341.2	341.3	341.4	343.7	346.7	349.8	353.5	358.8
40°	328.2	326.5	326.2	323.9	326.2	326.5	328.2	329.6	333.0	337.7	341.8
42.5°	311.7	310.9	309.7	308.6	309.7	310.9	311.7	314.4	317.3	320.7	325.8
45°	289.3	287.0	287.0	285.3	287.0	287.0	289.3	291.7	293.0	297.0	303.8
47.5°	266.1	264.3	264.5	262.7	264.5	264.3	266.1	266.9	269.0	273.0	276.8
50°	250.7	249.7	249.3	248.6	249.3	249.7	250.7	250.3	253.1	256.7	261.8
52.5°	235.2	234.8	236.0	234.5	236.0	234.8	235.2	235.9	237.8	240.2	245.0
55°	214.5	213.4	215.4	213.4	215.4	213.4	214.5	213.7	214.5	216.8	219.8
57.5°	190.5	189.6	191.4	190.4	191.4	189.6	190.5	190.6	192.7	193.1	195.7
60°	174.8	172.7	173.8	174.2	173.8	172.7	174.8	175.5	176.1	176.5	179.2
62.5°	156.0	154.9	155.6	154.1	155.6	154.9	156.0	157.6	159.1	160.8	162.4
65°	129.7	128.8	127.3	126.7	127.3	128.8	129.7	130.5	134.1	136.2	139.9
67.5°	109.0	106.6	106.5	107.0	106.5	106.6	109.0	108.9	111.6	113.2	115.7
70°	93.8	93.8	93.5	93.5	93.5	93.8	93.8	95.9	97.2	98.5	100.2
72.5°	83.3	83.0	82.4	82.1	82.4	83.0	83.3	83.9	84.7	86.1	87.8
75°	67.1	67.4	66.7	66.4	66.7	67.4	67.1	67.1	68.4	68.8	69.5
77.5°	49.5	48.1	48.9	48.1	48.9	48.1	49.5	50.9	51.4	52.9	52.9
80°	37.6	37.3	38.3	37.3	38.3	37.3	37.6	37.6	38.6	39.3	41.0
82.5°	29.8	29.4	29.9	29.2	29.9	29.4	29.8	29.4	30.0	30.9	30.7
85°	17.9	17.7	17.3	17.7	17.3	17.7	17.9	17.7	17.3	17.7	17.9
87.5°	12.1	12.0	12.2	12.4	12.2	12.0	12.1	11.7	11.8	11.4	11.1
90°	29.6	30.5	31.4	32.3	31.4	30.5	29.6	28.7	27.5	26.0	24.5
92.5°	61.5	62.2	62.8	63.5	62.8	62.2	61.5	60.8	59.6	57.5	55.6
95°	113.9	114.5	115.0	115.7	115.0	114.5	113.9	113.2	111.9	109.9	107.7
97.5°	174.3	174.7	175.0	175.4	175.0	174.7	174.3	174.0	172.7	170.8	168.8
100°	218.7	219.4	220.0	220.5	220.0	219.4	218.7	218.2	216.5	213.8	211.2
102.5°	263.2	264.0	264.9	265.7	264.9	264.0	263.2	262.4	260.5	257.6	254.7
105°	330.8	331.7	332.6	333.5	332.6	331.7	330.8	329.9	328.6	326.8	325.0
107.5°	403.1	403.1	403.0	402.9	403.0	403.1	403.1	403.1	402.7	401.8	400.9
110°	455.5	455.1	454.9	454.6	454.9	455.1	455.5	455.8	455.5	454.6	453.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	506.8	506.2	505.7	505.2	505.7	506.2	506.8	507.3	507.3	506.9	506.5
115°	585.9	585.6	585.3	585.1	585.3	585.6	585.9	586.2	586.5	586.8	587.1
117.5°	666.6	665.4	664.2	663.0	664.2	665.4	666.6	667.8	668.2	668.1	667.8
120°	720.4	719.2	718.0	716.8	718.0	719.2	720.4	721.6	722.2	722.2	722.2
122.5°	773.5	772.5	771.5	770.6	771.5	772.5	773.5	774.5	775.0	775.3	775.5
125°	852.2	851.9	851.6	851.3	851.6	851.9	852.2	852.5	852.9	853.5	854.2
127.5°	930.5	930.0	929.3	928.7	929.3	930.0	930.5	931.1	931.6	931.9	932.2
130°	982.2	981.6	981.0	980.4	981.0	981.6	982.2	982.8	983.2	983.6	983.8
132.5°	1031.4	1030.5	1029.7	1028.8	1029.7	1030.5	1031.4	1032.2	1032.7	1033.0	1033.3
135°	1107.7	1106.5	1105.3	1104.1	1105.3	1106.5	1107.7	1108.9	1109.5	1109.5	1109.5
137.5°	1182.3	1180.8	1179.3	1177.8	1179.3	1180.8	1182.3	1183.8	1184.4	1184.0	1183.7
140°	1229.7	1228.2	1226.6	1225.1	1226.6	1228.2	1229.7	1231.1	1231.5	1231.0	1230.4
142.5°	1274.8	1273.4	1271.8	1270.3	1271.8	1273.4	1274.8	1276.3	1276.9	1276.5	1276.1
145°	1340.8	1339.9	1339.0	1338.1	1339.0	1339.9	1340.8	1341.7	1342.1	1342.1	1342.1
147.5°	1402.0	1400.0	1398.0	1396.0	1398.0	1400.0	1402.0	1404.1	1404.7	1404.0	1403.3
150°	1440.7	1440.2	1439.6	1439.0	1439.6	1440.2	1440.7	1441.4	1441.7	1441.7	1441.7
152.5°	1477.7	1476.7	1475.6	1474.5	1475.6	1476.7	1477.7	1478.8	1479.0	1478.3	1477.6
155°	1529.6	1528.0	1526.5	1525.1	1526.5	1528.0	1529.6	1531.1	1531.2	1530.0	1528.7
157.5°	1573.2	1571.2	1569.2	1567.3	1569.2	1571.2	1573.2	1575.2	1575.6	1574.4	1573.2
160°	1600.8	1599.3	1597.9	1596.3	1597.9	1599.3	1600.8	1602.3	1602.5	1601.2	1600.1
162.5°	1626.3	1624.5	1622.8	1621.0	1622.8	1624.5	1626.3	1628.0	1628.2	1626.7	1625.3
165°	1659.6	1657.8	1656.0	1654.1	1656.0	1657.8	1659.6	1661.3	1661.6	1660.5	1659.2
167.5°	1686.0	1684.3	1682.4	1680.5	1682.4	1684.3	1686.0	1687.9	1687.9	1686.1	1684.4
170°	1700.8	1698.7	1696.6	1694.5	1696.6	1698.7	1700.8	1702.9	1703.0	1701.2	1699.4
172.5°	1711.9	1710.0	1708.2	1706.4	1708.2	1710.0	1711.9	1713.8	1713.8	1712.0	1710.2
175°	1723.7	1721.5	1719.5	1717.3	1719.5	1721.5	1723.7	1725.7	1725.9	1724.1	1722.3
177.5°	1728.8	1727.2	1725.5	1723.9	1725.5	1727.2	1728.8	1730.5	1730.6	1729.2	1727.8
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2
2.5°	791.0	794.0	795.6	799.4	804.9	807.5	811.4	814.0	817.9	822.4	826.3
5°	739.8	748.0	753.3	761.8	769.6	777.4	787.2	794.3	803.8	814.7	823.1
7.5°	692.2	702.4	711.4	722.6	735.5	745.5	758.3	771.3	786.2	801.6	816.1
10°	661.9	672.1	683.2	697.1	710.0	723.5	738.8	754.0	772.7	790.0	809.6
12.5°	631.8	643.0	655.6	671.1	686.7	704.0	719.5	736.6	756.7	779.1	800.1
15°	594.5	605.3	618.8	632.0	650.1	669.0	689.6	712.4	734.7	759.8	785.9
17.5°	554.5	566.3	581.3	596.6	615.5	637.7	658.0	682.8	707.9	737.2	767.9
20°	528.4	540.6	558.2	575.2	592.5	614.1	638.2	663.6	690.4	721.1	755.4
22.5°	507.8	516.5	533.9	551.1	571.3	593.5	617.1	643.5	672.7	704.6	740.5
25°	477.2	487.4	500.0	517.9	539.0	562.3	586.0	614.1	646.0	678.5	716.8
27.5°	450.1	458.4	470.8	484.9	505.9	530.1	555.4	584.7	617.3	650.4	690.7
30°	430.9	440.1	451.8	466.8	483.4	509.8	535.6	564.4	597.5	631.8	673.1
32.5°	414.1	423.5	433.7	447.8	465.7	489.2	515.8	544.0	577.7	613.1	653.3
35°	390.6	397.0	406.4	420.4	438.0	456.9	484.0	513.9	546.7	583.3	623.6
37.5°	363.6	371.9	381.4	393.4	408.8	429.4	454.6	484.7	515.2	550.3	587.0
40°	347.9	355.7	366.1	375.0	391.3	409.8	432.9	464.4	494.9	527.7	561.2
42.5°	331.9	339.4	348.3	359.3	373.9	392.0	413.4	442.7	475.4	506.3	534.5
45°	306.9	314.7	323.2	333.3	346.9	364.4	385.8	412.6	441.0	469.5	490.8
47.5°	282.9	290.3	298.3	308.7	321.2	338.2	357.3	380.9	408.6	432.7	448.0
50°	265.9	272.7	281.5	291.7	303.8	319.8	338.0	361.4	384.5	406.4	420.4
52.5°	249.1	256.7	265.5	274.3	286.0	301.8	318.8	338.9	360.9	378.8	390.3
55°	223.9	231.0	239.2	248.3	259.8	273.4	291.3	307.2	324.5	339.7	346.5
57.5°	199.6	205.8	213.5	222.9	233.4	245.9	260.1	275.4	287.7	298.5	306.1
60°	183.6	189.0	196.1	204.3	215.4	226.9	239.8	254.0	263.5	272.7	279.8
62.5°	167.4	172.5	179.3	186.6	196.4	207.1	219.5	231.0	240.2	246.4	254.6
65°	142.9	148.0	153.8	161.6	169.3	178.2	189.3	197.8	204.3	211.1	216.2
67.5°	120.3	124.5	129.9	136.1	142.6	151.1	159.7	166.7	171.2	175.2	181.4
70°	105.3	108.7	113.2	117.9	125.0	133.5	140.3	145.6	148.7	152.8	160.2
72.5°	90.2	94.1	98.3	103.0	108.7	115.8	121.8	127.2	129.2	132.4	137.1
75°	71.2	73.2	76.6	79.9	84.0	90.1	95.9	97.2	98.9	101.7	105.0
77.5°	53.8	55.6	57.0	59.2	62.4	67.3	70.4	72.4	72.9	73.8	77.1
80°	42.7	43.7	45.0	46.7	48.1	52.2	53.9	55.9	56.5	57.6	59.3
82.5°	31.3	32.3	33.2	34.5	36.7	38.3	40.0	42.1	42.2	43.0	43.2
85°	18.3	18.6	17.9	18.6	19.0	19.6	21.3	23.0	22.7	22.4	23.4
87.5°	11.1	10.8	10.1	10.5	9.5	9.4	8.9	8.7	8.8	8.9	8.9
90°	23.0	21.5	19.4	17.3	15.2	13.1	10.9	8.6	6.2	3.7	1.3
92.5°	53.6	51.6	49.0	46.5	44.0	41.4	39.2	37.5	35.9	34.2	32.5
95°	105.7	103.5	100.6	97.6	94.6	91.6	89.8	89.2	88.6	88.0	87.4
97.5°	166.8	164.9	160.8	156.7	152.5	148.4	146.2	146.0	145.7	145.4	145.3
100°	208.5	205.7	201.9	198.0	194.1	190.2	188.2	188.2	188.2	188.2	188.2
102.5°	251.7	248.8	246.8	244.9	242.9	240.9	239.3	238.1	236.9	235.8	234.5
105°	323.2	321.5	319.6	317.8	316.0	314.2	312.6	311.1	309.6	308.1	306.7
107.5°	400.0	399.1	397.8	396.4	395.0	393.7	392.2	390.7	389.2	387.7	386.2
110°	452.7	451.8	450.9	450.0	449.2	448.3	447.1	445.6	444.1	442.6	441.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	506.0	505.7	504.5	503.4	502.2	501.1	500.2	499.4	498.6	497.8	497.0
115°	587.4	587.7	587.1	586.5	585.9	585.3	584.4	583.2	582.0	580.9	579.6
117.5°	667.5	667.4	666.7	666.2	665.7	665.1	664.6	664.1	663.5	663.0	662.5
120°	722.2	722.2	721.8	721.6	721.3	720.9	720.1	718.6	717.1	715.6	714.1
122.5°	775.7	776.0	775.2	774.5	773.6	772.8	772.2	771.7	771.2	770.6	770.1
125°	854.7	855.3	855.1	854.7	854.4	854.2	853.1	851.3	849.5	847.7	845.9
127.5°	932.5	932.8	932.5	932.1	931.7	931.4	930.7	929.6	928.6	927.6	926.6
130°	984.1	984.4	983.8	983.2	982.7	982.0	981.0	979.5	978.0	976.5	975.0
132.5°	1033.6	1033.9	1034.0	1034.1	1034.3	1034.4	1033.2	1030.8	1028.3	1025.9	1023.4
135°	1109.5	1109.5	1109.2	1108.9	1108.6	1108.3	1107.2	1105.5	1103.7	1101.9	1100.1
137.5°	1183.3	1182.9	1182.2	1181.6	1181.0	1180.3	1179.1	1177.3	1175.6	1173.9	1172.2
140°	1229.8	1229.2	1228.3	1227.4	1226.5	1225.6	1224.4	1222.9	1221.4	1219.9	1218.4
142.5°	1275.8	1275.4	1274.3	1273.2	1272.0	1270.9	1269.7	1268.5	1267.2	1266.0	1264.7
145°	1342.1	1342.1	1341.2	1340.3	1339.4	1338.5	1337.6	1336.3	1335.2	1333.9	1332.8
147.5°	1402.6	1401.9	1401.1	1400.4	1399.7	1399.0	1398.3	1397.7	1397.0	1396.3	1395.7
150°	1441.7	1441.7	1440.5	1439.3	1438.1	1436.9	1436.5	1436.7	1437.1	1437.3	1437.6
152.5°	1476.9	1476.1	1475.6	1475.2	1474.7	1474.2	1473.7	1473.3	1472.9	1472.5	1472.0
155°	1527.6	1526.4	1526.1	1525.8	1525.5	1525.2	1525.1	1525.1	1525.1	1525.1	1525.1
157.5°	1572.0	1570.7	1570.5	1570.2	1569.9	1569.6	1569.8	1570.4	1571.1	1571.7	1572.4
160°	1598.8	1597.7	1597.4	1597.1	1596.8	1596.5	1596.8	1597.7	1598.6	1599.5	1600.4
162.5°	1623.9	1622.4	1622.4	1622.3	1622.2	1622.2	1622.5	1623.2	1623.8	1624.4	1625.1
165°	1658.0	1656.9	1656.5	1656.3	1656.0	1655.6	1655.8	1656.4	1657.0	1657.6	1658.2
167.5°	1682.6	1680.8	1680.8	1680.8	1680.8	1680.8	1681.4	1682.6	1683.8	1685.0	1686.1
170°	1697.6	1695.9	1695.9	1695.9	1695.9	1695.9	1696.5	1697.6	1698.8	1700.0	1701.2
172.5°	1708.4	1706.6	1706.6	1706.6	1706.6	1706.6	1707.2	1708.4	1709.6	1710.8	1712.0
175°	1720.5	1718.7	1718.7	1718.7	1718.7	1718.7	1719.3	1720.5	1721.7	1722.9	1724.1
177.5°	1726.4	1724.9	1725.1	1725.4	1725.6	1725.8	1726.4	1727.4	1728.4	1729.3	1730.3
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2
2.5°	829.2	831.7	835.2	839.3	842.5	846.1	847.9	847.9	849.5	853.1	857.6
5°	831.6	840.4	848.9	859.7	868.2	878.0	885.5	892.6	899.0	907.1	915.6
7.5°	830.9	845.5	860.8	877.9	896.7	911.7	927.0	939.1	951.0	966.6	978.9
10°	828.2	847.2	867.8	889.5	913.2	933.9	952.5	969.5	985.7	1002.6	1017.9
12.5°	823.3	847.5	872.7	898.8	928.7	952.3	976.3	994.4	1013.3	1031.9	1050.7
15°	816.0	844.5	874.9	911.2	947.8	974.2	997.9	1021.3	1038.9	1059.9	1077.9
17.5°	800.9	837.6	875.9	915.5	950.7	981.4	1006.2	1028.5	1047.2	1070.3	1094.8
20°	791.9	831.6	871.6	913.9	947.4	978.9	1003.0	1026.0	1049.4	1079.6	1109.4
22.5°	779.5	821.8	864.2	904.5	939.9	970.3	995.1	1023.3	1054.0	1088.2	1124.3
25°	759.8	803.5	845.5	883.8	918.3	949.5	983.4	1021.3	1058.5	1103.6	1155.4
27.5°	734.8	776.9	814.4	854.8	889.2	928.8	971.1	1012.2	1066.0	1127.9	1192.7
30°	716.0	756.1	791.7	829.9	868.9	912.6	960.0	1008.4	1072.5	1145.2	1222.2
32.5°	694.4	730.6	765.9	802.8	847.7	895.7	946.2	1005.4	1081.9	1164.8	1244.4
35°	656.8	689.3	723.5	764.6	812.3	864.4	928.8	1000.9	1093.4	1182.5	1254.0
37.5°	617.4	643.0	677.4	720.6	772.7	833.0	906.1	993.7	1088.7	1168.7	1199.1
40°	587.0	611.1	647.3	692.7	744.2	810.3	892.2	982.3	1077.9	1133.4	1131.0
42.5°	557.0	581.3	616.2	661.8	715.5	789.4	873.8	967.4	1048.0	1069.2	1025.1
45°	510.8	533.5	567.8	613.8	671.4	748.9	837.7	927.5	978.9	944.8	857.4
47.5°	463.8	485.8	517.5	562.7	625.5	706.8	790.7	864.3	871.6	798.1	693.2
50°	432.9	453.5	483.8	531.8	592.8	672.1	753.0	810.9	793.0	703.2	595.1
52.5°	402.8	422.7	450.9	496.3	558.7	636.3	708.6	754.0	712.5	617.1	519.9
55°	358.4	377.4	405.8	447.5	504.0	575.2	638.6	655.1	594.1	497.9	419.4
57.5°	316.2	330.0	358.2	395.0	449.6	512.3	557.7	554.7	487.4	400.8	344.5
60°	288.3	300.8	327.5	361.4	413.2	469.5	501.3	487.8	419.7	348.2	294.0
62.5°	262.3	273.9	296.4	327.5	372.1	421.0	444.2	425.4	361.1	298.4	255.3
65°	222.9	231.4	249.3	278.1	313.0	346.9	367.6	340.1	283.2	235.8	203.2
67.5°	186.1	193.4	209.4	230.1	254.1	277.5	285.9	260.1	215.9	184.0	161.0
70°	162.3	169.1	179.9	199.2	215.1	231.7	235.8	212.8	175.8	151.4	137.1
72.5°	139.5	145.7	155.2	168.8	179.9	189.4	191.4	169.9	141.7	124.8	113.9
75°	106.4	111.8	117.9	123.0	130.1	131.8	131.1	114.5	99.2	88.1	81.9
77.5°	78.2	80.4	84.2	86.1	86.5	86.4	82.9	72.4	64.6	59.9	57.4
80°	60.3	62.0	63.0	63.7	64.0	60.6	56.9	50.5	47.8	45.0	42.0
82.5°	43.8	44.9	45.9	46.1	44.2	41.4	37.9	34.8	32.8	31.5	30.3
85°	23.7	24.1	23.7	22.0	19.6	18.6	17.9	17.3	16.9	16.6	16.6
87.5°	9.2	8.8	7.9	8.6	9.1	9.3	9.7	9.8	10.0	10.3	10.6
90°	3.7	6.2	8.6	10.9	13.1	15.2	17.3	19.4	21.5	23.0	24.5
92.5°	34.2	35.9	37.5	39.2	41.4	44.0	46.5	49.0	51.6	53.6	55.6
95°	88.0	88.6	89.2	89.8	91.6	94.6	97.6	100.6	103.5	105.7	107.7
97.5°	145.4	145.7	146.0	146.2	148.4	152.5	156.7	160.8	164.9	166.8	168.8
100°	188.2	188.2	188.2	188.2	190.2	194.1	198.0	201.9	205.7	208.5	211.2
102.5°	235.8	236.9	238.1	239.3	240.9	242.9	244.9	246.8	248.8	251.7	254.7
105°	308.1	309.6	311.1	312.6	314.2	316.0	317.8	319.6	321.5	323.2	325.0
107.5°	387.7	389.2	390.7	392.2	393.7	395.0	396.4	397.8	399.1	400.0	400.9
110°	442.6	444.1	445.6	447.1	448.3	449.2	450.0	450.9	451.8	452.7	453.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.8	498.6	499.4	500.2	501.1	502.2	503.4	504.5	505.7	506.0	506.5
115°	580.9	582.0	583.2	584.4	585.3	585.9	586.5	587.1	587.7	587.4	587.1
117.5°	663.0	663.5	664.1	664.6	665.1	665.7	666.2	666.7	667.4	667.5	667.8
120°	715.6	717.1	718.6	720.1	720.9	721.3	721.6	721.8	722.2	722.2	722.2
122.5°	770.6	771.2	771.7	772.2	772.8	773.6	774.5	775.2	776.0	775.7	775.5
125°	847.7	849.5	851.3	853.1	854.2	854.4	854.7	855.1	855.3	854.7	854.2
127.5°	927.6	928.6	929.6	930.7	931.4	931.7	932.1	932.5	932.8	932.5	932.2
130°	976.5	978.0	979.5	981.0	982.0	982.7	983.2	983.8	984.4	984.1	983.8
132.5°	1025.9	1028.3	1030.8	1033.2	1034.4	1034.3	1034.1	1034.0	1033.9	1033.6	1033.3
135°	1101.9	1103.7	1105.5	1107.2	1108.3	1108.6	1108.9	1109.2	1109.5	1109.5	1109.5
137.5°	1173.9	1175.6	1177.3	1179.1	1180.3	1181.0	1181.6	1182.2	1182.9	1183.3	1183.7
140°	1219.9	1221.4	1222.9	1224.4	1225.6	1226.5	1227.4	1228.3	1229.2	1229.8	1230.4
142.5°	1266.0	1267.2	1268.5	1269.7	1270.9	1272.0	1273.2	1274.3	1275.4	1275.8	1276.1
145°	1333.9	1335.2	1336.3	1337.6	1338.5	1339.4	1340.3	1341.2	1342.1	1342.1	1342.1
147.5°	1396.3	1397.0	1397.7	1398.3	1399.0	1399.7	1400.4	1401.1	1401.9	1402.6	1403.3
150°	1437.3	1437.1	1436.7	1436.5	1436.9	1438.1	1439.3	1440.5	1441.7	1441.7	1441.7
152.5°	1472.5	1472.9	1473.3	1473.7	1474.2	1474.7	1475.2	1475.6	1476.1	1476.9	1477.6
155°	1525.1	1525.1	1525.1	1525.1	1525.2	1525.5	1525.8	1526.1	1526.4	1527.6	1528.7
157.5°	1571.7	1571.1	1570.4	1569.8	1569.6	1569.9	1570.2	1570.5	1570.7	1572.0	1573.2
160°	1599.5	1598.6	1597.7	1596.8	1596.5	1596.8	1597.1	1597.4	1597.7	1598.8	1600.1
162.5°	1624.4	1623.8	1623.2	1622.5	1622.2	1622.2	1622.3	1622.4	1622.4	1623.9	1625.3
165°	1657.6	1657.0	1656.4	1655.8	1655.6	1656.0	1656.3	1656.5	1656.9	1658.0	1659.2
167.5°	1685.0	1683.8	1682.6	1681.4	1680.8	1680.8	1680.8	1680.8	1680.8	1682.6	1684.4
170°	1700.0	1698.8	1697.6	1696.5	1695.9	1695.9	1695.9	1695.9	1695.9	1697.6	1699.4
172.5°	1710.8	1709.6	1708.4	1707.2	1706.6	1706.6	1706.6	1706.6	1706.6	1708.4	1710.2
175°	1722.9	1721.7	1720.5	1719.3	1718.7	1718.7	1718.7	1718.7	1718.7	1720.5	1722.3
177.5°	1729.3	1728.4	1727.4	1726.4	1725.8	1725.6	1725.4	1725.1	1724.9	1726.4	1727.8
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	825.2	825.2	825.2	825.2	825.2	825.2	825.2
2.5°	861.2	861.2	865.9	865.5	868.5	867.5	868.0
5°	925.8	931.5	936.6	940.0	945.0	946.5	945.7
7.5°	992.7	1005.5	1011.7	1020.3	1021.8	1026.3	1025.8
10°	1034.1	1046.7	1056.1	1063.6	1067.4	1072.1	1072.5
12.5°	1066.7	1077.3	1085.7	1092.6	1097.2	1098.7	1099.6
15°	1092.1	1103.9	1113.7	1123.6	1129.4	1133.7	1136.1
17.5°	1117.7	1136.0	1153.3	1166.7	1174.7	1181.4	1181.3
20°	1137.5	1158.5	1180.2	1195.4	1210.9	1217.7	1218.8
22.5°	1158.6	1190.7	1218.6	1242.2	1262.8	1269.8	1272.4
25°	1202.5	1244.5	1287.5	1320.7	1344.4	1358.3	1360.4
27.5°	1255.5	1312.4	1357.6	1388.3	1408.0	1418.3	1420.5
30°	1293.0	1345.4	1386.1	1409.2	1418.3	1419.6	1414.5
32.5°	1309.7	1349.0	1365.2	1363.9	1345.9	1334.0	1329.5
35°	1289.2	1281.1	1241.4	1194.0	1157.8	1134.8	1128.6
37.5°	1173.2	1103.1	1030.2	958.6	920.4	901.1	867.7
40°	1058.9	958.9	883.1	822.8	779.8	745.2	737.1
42.5°	929.9	826.7	750.8	699.2	664.9	641.1	630.9
45°	747.3	658.5	595.8	556.2	529.8	512.5	504.7
47.5°	597.6	529.0	483.3	454.0	433.8	418.8	414.6
50°	515.6	460.7	422.0	397.3	382.1	370.6	365.9
52.5°	447.8	403.5	373.8	353.5	339.0	331.8	327.9
55°	369.5	331.3	310.0	293.6	285.5	279.8	277.1
57.5°	302.2	274.6	259.0	247.7	240.2	236.6	235.2
60°	264.6	242.9	228.6	219.8	214.7	210.0	208.7
62.5°	231.2	214.2	203.1	195.5	190.4	188.3	187.5
65°	186.3	175.1	167.0	162.3	158.2	157.5	157.2
67.5°	148.1	141.5	137.2	132.3	130.9	128.5	128.0
70°	126.7	122.3	117.2	115.5	113.8	111.5	111.8
72.5°	107.5	103.1	99.6	97.4	96.8	95.8	96.6
75°	78.6	77.2	75.9	74.2	73.5	73.5	73.2
77.5°	56.1	54.9	53.4	52.4	52.3	50.8	51.4
80°	40.7	39.0	38.3	38.6	37.6	37.3	37.3
82.5°	30.1	29.4	28.8	28.9	28.6	28.4	28.6
85°	16.6	16.2	16.2	16.0	16.0	15.6	15.6
87.5°	11.1	11.8	11.4	11.3	11.5	11.9	12.4
90°	26.0	27.5	28.7	29.6	30.5	31.4	32.3
92.5°	57.5	59.6	60.8	61.5	62.2	62.8	63.5
95°	109.9	111.9	113.2	113.9	114.5	115.0	115.7
97.5°	170.8	172.7	174.0	174.3	174.7	175.0	175.4
100°	213.8	216.5	218.2	218.7	219.4	220.0	220.5
102.5°	257.6	260.5	262.4	263.2	264.0	264.9	265.7
105°	326.8	328.6	329.9	330.8	331.7	332.6	333.5
107.5°	401.8	402.7	403.1	403.1	403.1	403.0	402.9
110°	454.6	455.5	455.8	455.5	455.1	454.9	454.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	506.9	507.3	507.3	506.8	506.2	505.7	505.2
115°	586.8	586.5	586.2	585.9	585.6	585.3	585.1
117.5°	668.1	668.2	667.8	666.6	665.4	664.2	663.0
120°	722.2	722.2	721.6	720.4	719.2	718.0	716.8
122.5°	775.3	775.0	774.5	773.5	772.5	771.5	770.6
125°	853.5	852.9	852.5	852.2	851.9	851.6	851.3
127.5°	931.9	931.6	931.1	930.5	930.0	929.3	928.7
130°	983.6	983.2	982.8	982.2	981.6	981.0	980.4
132.5°	1033.0	1032.7	1032.2	1031.4	1030.5	1029.7	1028.8
135°	1109.5	1109.5	1108.9	1107.7	1106.5	1105.3	1104.1
137.5°	1184.0	1184.4	1183.8	1182.3	1180.8	1179.3	1177.8
140°	1231.0	1231.5	1231.1	1229.7	1228.2	1226.6	1225.1
142.5°	1276.5	1276.9	1276.3	1274.8	1273.4	1271.8	1270.3
145°	1342.1	1342.1	1341.7	1340.8	1339.9	1339.0	1338.1
147.5°	1404.0	1404.7	1404.1	1402.0	1400.0	1398.0	1396.0
150°	1441.7	1441.7	1441.4	1440.7	1440.2	1439.6	1439.0
152.5°	1478.3	1479.0	1478.8	1477.7	1476.7	1475.6	1474.5
155°	1530.0	1531.2	1531.1	1529.6	1528.0	1526.5	1525.1
157.5°	1574.4	1575.6	1575.2	1573.2	1571.2	1569.2	1567.3
160°	1601.2	1602.5	1602.3	1600.8	1599.3	1597.9	1596.3
162.5°	1626.7	1628.2	1628.0	1626.3	1624.5	1622.8	1621.0
165°	1660.5	1661.6	1661.3	1659.6	1657.8	1656.0	1654.1
167.5°	1686.1	1687.9	1687.9	1686.0	1684.3	1682.4	1680.5
170°	1701.2	1703.0	1702.9	1700.8	1698.7	1696.6	1694.5
172.5°	1712.0	1713.8	1713.8	1711.9	1710.0	1708.2	1706.4
175°	1724.1	1725.9	1725.7	1723.7	1721.5	1719.5	1717.3
177.5°	1729.2	1730.6	1730.5	1728.8	1727.2	1725.5	1723.9
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1

(END OF REPORT)