

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: P332427-940

Luminaire Tested: **S123RDIW-S560D1535U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332427-940
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-S560D1535U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6734.2 lumens
Efficiency: N/A
Efficacy: 111.1 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: Semi-Indirect

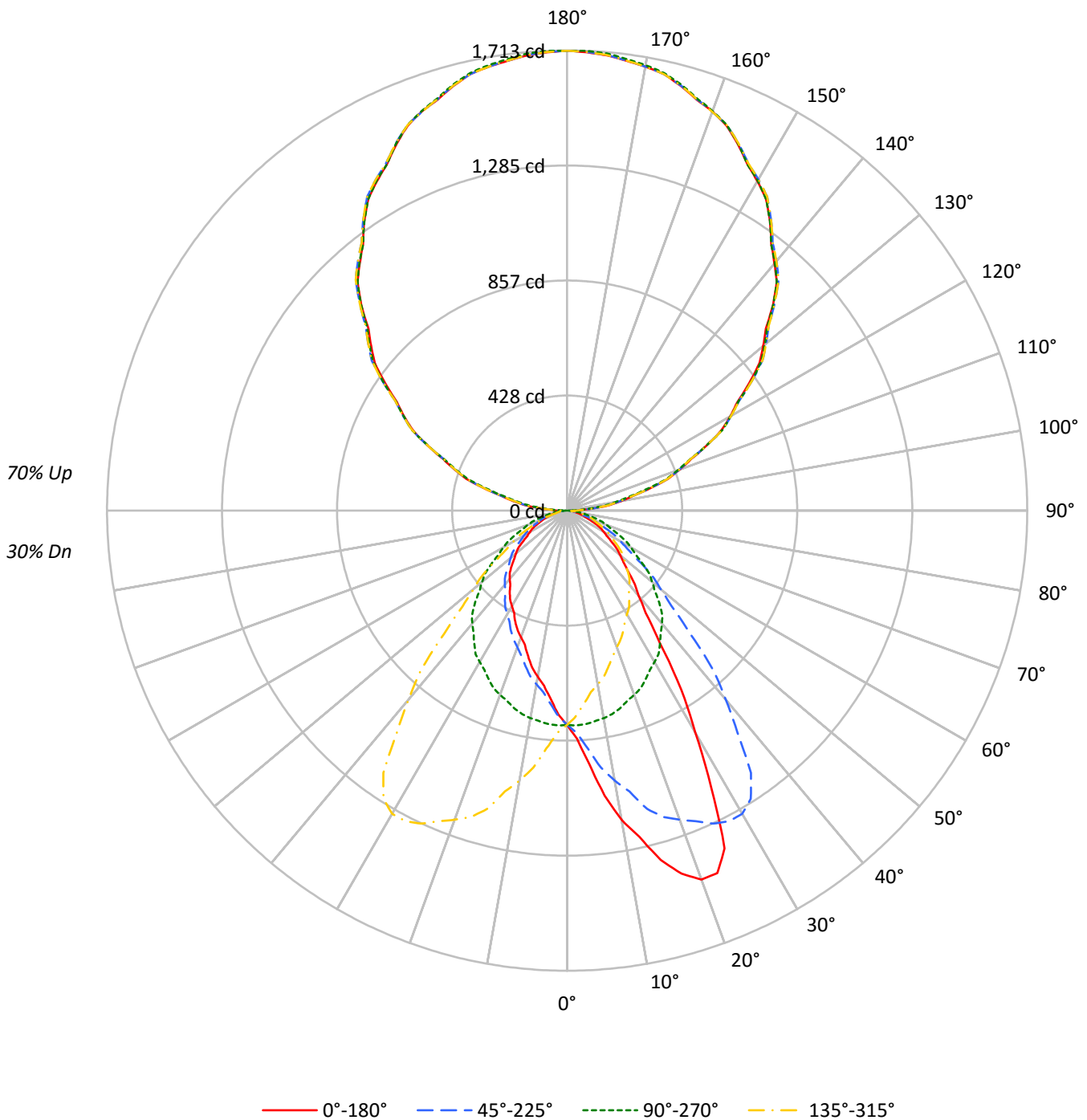
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	94	89	86	83	84	80	77	75	63	61	60	48	47	45	33	33	32	26
2	85	78	73	68	76	71	66	62	56	53	50	42	40	38	30	29	28	22
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	55	47	41	59	49	43	38	40	35	31	30	27	25	22	20	18	15
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	14	12
8	52	40	33	28	46	36	30	26	29	25	21	23	20	17	17	15	13	10
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	15	13	12	10
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8587	8587	8587	8587
5°	10237	8625	7595	8625
10°	12783	8575	6862	8575
15°	15004	8487	6257	8487
20°	16745	8356	5743	8356
25°	16476	8219	5428	8219
30°	11844	8090	5102	8090
35°	7908	7926	4892	7926
40°	5826	7727	4675	7727
45°	4886	7377	4460	7377
50°	4312	6921	4163	6921
55°	3781	6397	3755	6397
60°	3367	5896	3442	5896
65°	2957	5359	3202	5359
70°	2319	4881	2924	4881
75°	2046	4263	2670	4263
80°	1779	3620	2628	3620
85°	1433	2902	2791	2902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.2
10°-20°	245.1	3.6
20°-30°	385.1	5.7
30°-40°	401.8	6.0
40°-50°	343.8	5.1
50°-60°	262.1	3.9
60°-70°	168.0	2.5
70°-80°	80.8	1.2
80°-90°	26.4	0.4
90°-100°	111.5	1.7
100°-110°	333.8	5.0
110°-120°	567.7	8.4
120°-130°	746.7	11.1
130°-140°	839.3	12.5
140°-150°	825.0	12.3
150°-160°	694.5	10.3
160°-170°	462.3	6.9
170°-180°	161.9	2.4
0°-30°	708.7	10.5
0°-40°	1110.4	16.5
0°-60°	1716.3	25.5
0°-90°	1991.6	29.6
90°-120°	1013.0	15.0
90°-150°	3423.9	50.8
90°-180°	4743.0	70.4
0°-180°	6734.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	947	798	703	798	947	98
15°	1346	762	562	762	1346	382
25°	1387	692	457	692	1387	596
35°	602	603	372	603	602	395
45°	321	485	293	485	321	252
55°	202	341	200	341	202	182
65°	116	210	126	210	116	114
75°	49	102	64	102	49	53
85°	12	24	23	24	12	14
90°	40	1	40	1	40	20
95°	105	79	105	79	105	108
105°	320	303	320	303	320	340
115°	573	572	573	572	573	567
125°	827	836	827	836	827	739
135°	1084	1085	1084	1085	1084	833
145°	1316	1316	1316	1316	1316	822
155°	1505	1507	1505	1507	1505	693
165°	1636	1642	1636	1642	1636	462
175°	1701	1708	1701	1708	1701	162
180°	1712	1712	1712	1712	1712	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	849.7	850.9	847.3	846.8	842.7	841.6	841.6	835.8	832.2	827.6	824.9
5°	947.4	952.9	950.2	944.1	933.8	931.4	924.9	914.6	903.0	888.7	881.9
7.5°	1069.4	1076.9	1074.0	1064.5	1053.8	1045.1	1026.8	1009.8	986.0	965.1	947.2
10°	1169.5	1161.5	1155.5	1146.2	1136.3	1120.3	1101.2	1074.9	1044.5	1020.6	993.9
12.5°	1244.3	1243.0	1235.2	1225.7	1211.7	1196.5	1173.0	1140.9	1105.6	1071.0	1040.6
15°	1346.4	1348.4	1343.3	1333.4	1313.6	1286.6	1251.1	1237.8	1187.2	1149.6	1112.1
17.5°	1417.0	1416.6	1415.9	1402.1	1382.0	1362.7	1329.8	1294.8	1249.0	1196.1	1145.5
20°	1461.8	1458.4	1459.1	1443.7	1428.7	1406.5	1374.4	1323.5	1285.9	1224.8	1172.5
22.5°	1460.7	1460.0	1462.6	1457.3	1446.4	1429.4	1404.2	1361.2	1313.2	1251.5	1192.8
25°	1387.3	1384.6	1400.7	1405.1	1422.5	1425.6	1418.1	1394.5	1349.1	1285.6	1212.8
27.5°	1161.1	1159.6	1189.4	1226.6	1274.0	1310.7	1346.2	1363.3	1349.1	1303.6	1230.7
30°	952.9	985.0	1000.1	1054.0	1114.1	1185.8	1248.7	1308.4	1323.1	1303.3	1243.6
32.5°	791.1	819.1	831.7	878.1	934.1	1018.1	1112.3	1196.9	1256.8	1271.9	1235.9
35°	601.8	602.2	630.8	651.3	703.2	789.6	881.2	994.5	1107.2	1192.7	1201.6
37.5°	480.2	481.9	499.3	519.7	558.7	604.3	684.9	779.2	909.4	1040.4	1117.3
40°	414.6	417.7	430.7	450.8	478.8	513.4	576.2	664.9	773.6	919.4	1038.7
42.5°	372.6	377.6	384.2	399.8	417.1	449.4	500.2	568.8	667.5	805.5	943.0
45°	321.0	323.8	328.9	336.1	351.8	374.3	408.5	454.6	536.5	647.6	785.2
47.5°	283.2	281.8	287.1	293.0	303.4	318.8	341.7	379.3	437.8	526.8	643.6
50°	257.5	257.2	260.9	265.4	275.3	286.6	305.3	333.7	380.1	453.9	560.8
52.5°	233.4	234.8	237.5	243.0	250.1	259.2	276.1	296.5	336.4	400.1	489.2
55°	201.5	202.5	206.3	209.4	214.5	223.7	234.3	251.4	278.7	323.1	396.5
57.5°	174.4	174.0	177.6	178.3	184.1	191.6	199.8	213.1	232.9	265.9	315.4
60°	156.4	155.4	158.5	160.9	163.9	170.0	176.9	189.9	205.6	229.9	272.2
62.5°	140.0	139.6	141.8	144.2	146.7	152.3	158.1	168.0	180.5	200.9	234.5
65°	116.1	117.2	118.2	119.2	120.6	123.9	129.5	136.3	144.8	159.2	183.4
67.5°	91.2	92.3	92.6	94.7	97.6	99.8	103.2	109.2	115.2	127.2	141.1
70°	73.7	73.4	73.7	74.8	78.6	82.3	86.8	91.2	95.0	103.5	115.1
72.5°	63.4	62.8	63.7	63.8	65.7	66.7	69.6	73.7	78.6	84.4	92.7
75°	49.2	49.2	49.2	49.2	50.6	51.3	52.3	53.3	55.0	57.7	63.8
77.5°	36.4	36.4	36.9	37.2	37.5	37.9	38.5	39.6	40.1	41.6	44.2
80°	28.7	29.1	28.7	29.1	29.1	29.7	30.1	31.1	31.4	33.2	34.2
82.5°	21.6	21.4	21.6	21.9	21.9	22.6	22.6	23.5	23.5	24.3	25.4
85°	11.6	11.0	11.6	11.2	11.9	11.2	11.6	12.3	12.3	12.7	14.0
87.5°	10.8	11.2	10.5	10.7	10.6	10.7	10.4	10.3	10.5	10.0	9.5
90°	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7	33.4	32.3	28.4
92.5°	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5	52.6	51.6	49.4
95°	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9	100.7	99.5	97.1
97.5°	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5	157.1	155.7	154.0
100°	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5	198.6	197.7	196.2
102.5°	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8	245.9	245.0	243.0
105°	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4	317.4	317.4	314.7
107.5°	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8	392.8	391.8	390.7
110°	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8	443.6	442.4	441.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8	494.4	492.9	492.8
115°	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5	573.1	572.8	573.5
117.5°	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8	651.8	651.9	652.6
120°	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0	704.3	704.6	706.1
122.5°	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8	757.6	758.4	759.2
125°	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4	836.5	837.8	838.3
127.5°	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9	914.5	916.2	916.9
130°	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4	965.6	966.8	967.7
132.5°	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5	1015.9	1017.4	1018.0
135°	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5	1090.7	1091.9	1092.2
137.5°	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8	1164.0	1165.3	1164.5
140°	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2
142.5°	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2	1256.4	1256.7	1256.2
145°	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5	1322.9	1323.1	1322.2
147.5°	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0	1424.0	1424.0	1423.3
152.5°	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4	1458.9	1458.4	1458.0
155°	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1	1509.9	1508.7	1508.4
157.5°	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6	1554.3	1553.1	1552.8
160°	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0	1581.4	1579.9	1579.9
162.5°	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7	1607.3	1605.8	1605.5
165°	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4	1639.6	1637.8	1637.8
167.5°	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1	1663.9
170°	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1	1678.1
172.5°	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6	1691.8	1690.0	1690.0
175°	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9	1704.1	1702.4	1702.4
177.5°	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4	1709.9	1708.5	1708.5
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	823.8	823.0	819.1	814.8	809.0	805.2	802.2	800.6	795.7	789.6	785.5
5°	874.7	864.4	853.5	840.2	827.9	815.3	807.4	798.2	786.9	774.3	765.4
7.5°	929.2	909.1	887.4	865.1	843.0	823.2	805.7	790.8	772.8	754.7	742.0
10°	971.0	941.6	911.2	880.1	851.8	825.2	804.7	784.5	763.0	742.2	726.5
12.5°	1009.0	970.4	935.3	897.1	860.9	829.0	799.5	775.8	749.9	727.7	709.8
15°	1057.0	1017.4	975.1	917.0	868.9	828.6	792.7	761.6	730.2	702.9	685.5
17.5°	1102.0	1042.4	985.5	937.0	874.5	824.1	780.3	743.2	708.7	679.8	658.3
20°	1120.6	1062.9	1001.0	939.2	877.8	821.4	770.5	729.5	693.7	660.8	641.1
22.5°	1131.8	1066.4	1001.3	934.9	869.6	811.0	760.7	715.6	676.7	645.6	621.2
25°	1144.9	1066.9	995.2	929.7	863.1	799.5	739.8	692.0	650.0	616.8	590.8
27.5°	1153.4	1061.8	977.0	904.2	836.6	773.4	718.6	667.9	625.3	590.2	562.4
30°	1155.1	1057.7	963.1	884.2	815.6	757.5	699.5	650.9	605.9	568.6	542.7
32.5°	1157.3	1047.7	944.3	860.5	790.2	732.7	680.1	633.7	587.5	550.9	524.4
35°	1148.3	1042.1	915.7	819.4	749.0	693.3	645.9	603.2	557.8	522.2	495.3
37.5°	1109.5	1019.8	886.0	773.0	699.5	647.9	609.2	572.0	530.4	492.0	466.6
40°	1070.4	998.0	863.1	744.9	668.1	615.1	580.2	549.9	509.6	473.7	446.4
42.5°	1012.2	968.2	841.2	715.4	632.5	581.5	552.1	523.6	488.3	451.8	426.1
45°	905.4	911.2	796.5	668.4	583.4	532.1	504.4	484.6	453.3	423.2	396.9
47.5°	771.5	825.8	744.0	618.3	531.5	483.4	459.2	441.9	420.8	391.3	367.3
50°	684.1	761.6	701.9	584.7	499.0	451.2	427.3	413.3	394.8	371.6	348.7
52.5°	603.5	686.8	651.0	547.2	463.8	420.0	396.6	385.1	370.5	348.7	328.0
55°	492.1	576.5	568.3	490.8	410.9	371.6	353.8	340.9	330.9	314.6	298.2
57.5°	398.1	478.0	482.3	427.9	364.3	325.5	310.2	300.4	293.9	281.6	266.4
60°	338.9	412.2	426.6	385.6	330.9	296.8	281.8	273.9	268.8	258.9	247.3
62.5°	289.6	352.1	368.4	338.9	299.0	267.0	255.3	247.7	244.2	235.7	225.4
65°	221.7	273.6	289.3	272.9	252.1	226.4	216.9	210.4	207.3	202.5	195.0
67.5°	166.7	204.6	221.8	210.2	202.7	186.5	180.4	176.9	174.2	170.9	164.6
70°	133.8	161.9	179.7	176.6	170.4	161.9	157.5	155.1	152.3	149.6	144.1
72.5°	107.6	126.9	143.6	145.2	140.1	138.4	134.5	133.5	131.8	128.6	125.6
75°	71.4	84.7	96.3	100.8	102.8	104.5	102.8	102.5	102.1	99.4	97.6
77.5°	46.8	53.9	61.3	68.8	72.1	74.4	74.9	76.2	75.3	73.8	73.0
80°	35.8	37.5	42.7	49.2	54.3	56.4	57.7	58.4	58.1	57.7	56.4
82.5°	26.0	27.5	29.9	34.4	38.7	42.2	43.0	42.8	43.6	43.8	42.7
85°	14.0	14.4	15.1	15.7	18.1	21.8	22.9	23.5	24.3	24.3	22.2
87.5°	9.3	8.2	8.0	7.3	7.5	7.2	8.2	9.0	9.9	9.4	10.0
90°	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3	4.4	7.3	10.3
92.5°	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5	34.6	36.6	38.6
95°	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4	81.4	83.6	85.6
97.5°	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9	142.5	144.0	145.6
100°	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9	184.7	186.5	188.2
102.5°	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3	232.4	233.4	234.5
105°	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6	303.2	303.7	304.3
107.5°	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4	385.8	386.1	386.5
110°	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0	437.7	438.2	438.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8	491.2	491.5	491.9
115°	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5	572.4	573.3	574.2
117.5°	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7	653.3	653.9	654.5
120°	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3	705.1	706.9	708.6
122.5°	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0	757.2	758.6	759.9
125°	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3	837.2	838.2	839.1
127.5°	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6	912.5	914.4	916.3
130°	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1	962.5	964.8	967.2
132.5°	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6	1011.9	1014.3	1016.7
135°	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1	1086.9	1088.7	1090.5
137.5°	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0	1156.5	1158.1	1159.6
140°	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5	1205.0	1206.5	1207.9
142.5°	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6	1249.0	1250.5	1252.1
145°	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4	1317.1	1317.6	1318.2
147.5°	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6	1377.7	1378.8	1379.9
150°	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6	1419.2	1419.8	1420.4
152.5°	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0	1453.8	1454.7	1455.5
155°	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6	1553.3	1552.9	1552.6
160°	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7	1582.1	1581.4	1580.8
162.5°	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5	1607.7	1606.8	1606.0
165°	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8	1640.9	1640.0	1639.1
167.5°	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5	1667.2	1666.1	1664.8
170°	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5	1682.3	1681.1	1679.9
172.5°	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3	1694.2	1692.9	1691.8
175°	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7	1706.6	1705.3	1704.1
177.5°	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8	1711.9	1710.9	1709.9
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	784.2	780.6	778.2	772.7	769.2	765.4	761.5	763.9	763.7	763.4	763.4
5°	757.9	750.0	742.9	733.6	727.8	720.7	715.2	714.5	715.9	711.1	708.4
7.5°	731.8	721.0	710.9	700.7	689.9	681.3	675.9	673.4	669.9	667.0	663.9
10°	713.5	700.9	690.9	678.3	666.7	656.5	650.0	645.5	643.1	640.7	636.3
12.5°	694.6	682.2	669.6	655.3	644.3	632.4	627.6	622.6	618.0	615.3	609.2
15°	667.0	650.9	637.7	622.6	610.4	598.7	591.9	582.0	580.6	577.2	571.1
17.5°	639.4	622.0	603.6	592.5	578.5	566.5	556.1	552.8	543.0	539.3	534.0
20°	617.5	601.5	587.5	572.7	552.6	541.4	533.2	528.7	520.8	516.0	512.6
22.5°	598.7	582.3	566.1	549.0	532.4	519.8	513.7	506.8	502.6	495.9	492.1
25°	571.8	554.0	534.5	516.0	504.1	494.5	485.0	478.8	472.7	469.6	462.8
27.5°	540.5	521.9	503.7	489.7	475.0	465.6	456.9	451.5	444.1	438.9	435.2
30°	523.3	501.4	485.7	473.1	454.2	445.4	438.9	432.0	426.6	421.2	417.3
32.5°	503.3	483.3	468.4	452.8	438.4	428.7	420.3	414.3	409.7	404.5	400.7
35°	472.0	455.3	439.9	424.2	413.6	403.7	393.8	388.7	384.2	379.4	376.0
37.5°	443.7	428.1	413.5	398.6	385.5	377.4	369.4	365.5	359.5	356.3	352.8
40°	426.2	410.9	395.2	380.8	367.1	361.1	353.8	348.0	342.6	340.2	336.4
42.5°	407.2	391.7	378.5	363.0	351.9	343.5	336.9	330.6	326.5	323.0	320.8
45°	378.8	365.1	352.1	336.8	326.2	319.0	311.5	305.7	301.9	299.5	295.8
47.5°	351.2	337.6	324.4	311.0	300.8	292.6	285.1	281.0	276.1	273.1	270.5
50°	331.3	319.0	305.0	292.7	282.5	274.3	268.1	263.0	258.5	254.8	253.1
52.5°	313.0	299.9	287.8	276.3	265.6	256.2	250.7	245.2	241.9	237.6	235.6
55°	282.8	270.2	259.9	248.6	238.1	230.2	223.4	218.6	215.2	210.4	207.7
57.5°	254.4	243.1	230.9	221.1	210.2	203.6	197.9	191.4	187.3	183.5	180.8
60°	235.3	222.3	211.8	202.5	193.0	184.4	179.3	174.2	169.8	165.9	163.6
62.5°	215.3	204.0	194.0	184.0	175.2	167.7	161.8	157.5	153.6	151.2	148.8
65°	184.8	175.9	165.7	157.5	149.3	143.8	139.0	135.3	132.5	130.8	128.8
67.5°	156.7	148.0	139.1	131.0	125.6	121.4	118.2	115.0	113.7	111.5	110.1
70°	138.3	129.5	121.6	115.5	109.9	106.9	104.9	102.5	101.1	98.4	97.0
72.5°	118.4	112.0	106.3	101.2	96.8	94.1	91.5	88.5	86.3	83.4	81.9
75°	93.3	87.5	83.0	79.5	76.9	73.1	69.4	66.3	65.3	64.2	63.8
77.5°	69.0	65.4	62.2	59.3	55.9	53.1	52.3	51.6	51.5	50.9	50.9
80°	54.3	50.9	48.5	45.1	43.1	43.1	43.1	42.4	42.7	42.7	42.7
82.5°	40.4	37.2	35.9	34.7	34.3	34.6	34.6	34.7	34.5	35.0	34.8
85°	20.9	21.1	21.8	21.5	21.8	21.8	22.6	22.2	22.6	21.8	22.6
87.5°	10.3	11.9	12.8	13.9	15.0	15.4	16.0	16.2	16.8	16.9	17.1
90°	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7	35.8	37.1	38.0
92.5°	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5	54.5	55.5	55.7
95°	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9	103.1	104.2	104.9
97.5°	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5	159.8	161.2	161.8
100°	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5	200.4	201.3	202.0
102.5°	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8	247.7	248.6	249.0
105°	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4	317.4	317.4	317.6
107.5°	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8	394.7	395.7	395.9
110°	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8	445.9	447.2	447.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8	497.2	498.6	499.4
115°	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5	573.7	574.0	574.0
117.5°	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8	651.8	651.7	651.2
120°	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0	703.7	703.4	702.9
122.5°	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8	756.1	755.3	754.5
125°	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4	834.1	832.9	831.7
127.5°	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9	911.2	909.5	908.0
130°	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4	963.2	962.1	960.4
132.5°	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5	1013.1	1011.6	1010.1
135°	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5	1088.2	1087.1	1086.2
137.5°	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8	1161.5	1160.3	1159.0
140°	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.2
142.5°	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2	1255.8	1255.5	1254.5
145°	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5	1322.2	1322.0	1321.2
147.5°	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0	1424.0	1424.0	1423.1
152.5°	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4	1459.8	1460.4	1459.8
155°	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1	1512.3	1513.5	1513.1
157.5°	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6	1556.8	1558.1	1557.9
160°	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0	1584.5	1585.9	1586.1
162.5°	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7	1610.3	1611.8	1611.6
165°	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4	1643.2	1644.9	1644.8
167.5°	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5
170°	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5
172.5°	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6	1695.5	1697.4	1697.3
175°	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9	1707.7	1709.5	1709.3
177.5°	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4	1712.8	1714.2	1714.1
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	760.1	759.8	760.1	759.0	760.1	759.8	760.1	763.4	763.4	763.7	763.9
5°	707.3	706.9	706.0	702.9	706.0	706.9	707.3	708.4	711.1	715.9	714.5
7.5°	661.2	660.8	657.7	657.8	657.7	660.8	661.2	663.9	667.0	669.9	673.4
10°	633.9	634.3	630.2	627.8	630.2	634.3	633.9	636.3	640.7	643.1	645.5
12.5°	607.4	605.8	602.5	599.9	602.5	605.8	607.4	609.2	615.3	618.0	622.6
15°	572.4	569.0	560.8	561.5	560.8	569.0	572.4	571.1	577.2	580.6	582.0
17.5°	531.2	528.7	528.6	523.8	528.6	528.7	531.2	534.0	539.3	543.0	552.8
20°	507.2	505.5	506.1	501.4	506.1	505.5	507.2	512.6	516.0	520.8	528.7
22.5°	488.3	486.6	483.8	482.2	483.8	486.6	488.3	492.1	495.9	502.6	506.8
25°	460.7	458.0	455.3	457.0	455.3	458.0	460.7	462.8	469.6	472.7	478.8
27.5°	433.1	431.1	428.4	428.0	428.4	431.1	433.1	435.2	438.9	444.1	451.5
30°	415.6	413.6	412.2	410.5	412.2	413.6	415.6	417.3	421.2	426.6	432.0
32.5°	397.9	397.5	395.0	394.7	395.0	397.5	397.9	400.7	404.5	409.7	414.3
35°	374.7	372.6	371.9	372.3	371.9	372.6	374.7	376.0	379.4	384.2	388.7
37.5°	352.6	349.9	348.7	347.4	348.7	349.9	352.6	352.8	356.3	359.5	365.5
40°	336.8	334.0	333.3	332.7	333.3	334.0	336.8	336.4	340.2	342.6	348.0
42.5°	319.0	317.9	317.5	316.3	317.5	317.9	319.0	320.8	323.0	326.5	330.6
45°	294.7	294.4	292.4	293.0	292.4	294.4	294.7	295.8	299.5	301.9	305.7
47.5°	269.2	267.7	266.3	267.2	266.3	267.7	269.2	270.5	273.1	276.1	281.0
50°	251.7	251.0	248.0	248.6	248.0	251.0	251.7	253.1	254.8	258.5	263.0
52.5°	234.3	231.7	230.5	230.1	230.5	231.7	234.3	235.6	237.6	241.9	245.2
55°	205.3	202.2	200.8	200.1	200.8	202.2	205.3	207.7	210.4	215.2	218.6
57.5°	176.8	176.0	175.0	175.7	175.0	176.0	176.8	180.8	183.5	187.3	191.4
60°	160.2	160.2	160.2	159.9	160.2	160.2	160.2	163.6	165.9	169.8	174.2
62.5°	147.3	146.5	146.2	146.7	146.2	146.5	147.3	148.8	151.2	153.6	157.5
65°	127.7	127.4	126.0	125.7	126.0	127.4	127.7	128.8	130.8	132.5	135.3
67.5°	109.2	108.0	107.6	107.1	107.6	108.0	109.2	110.1	111.5	113.7	115.0
70°	95.3	94.6	92.6	92.9	92.6	94.6	95.3	97.0	98.4	101.1	102.5
72.5°	80.3	79.5	79.2	78.6	79.2	79.5	80.3	81.9	83.4	86.3	88.5
75°	63.5	63.2	62.9	64.2	62.9	63.2	63.5	63.8	64.2	65.3	66.3
77.5°	50.9	50.9	51.1	50.6	51.1	50.9	50.9	50.9	50.9	51.5	51.6
80°	42.7	42.7	42.4	42.4	42.4	42.7	42.7	42.7	42.7	42.7	42.4
82.5°	34.2	34.5	34.7	34.2	34.7	34.5	34.2	34.8	35.0	34.5	34.7
85°	22.6	22.2	22.9	22.6	22.9	22.2	22.6	22.6	21.8	22.6	22.2
87.5°	17.8	17.4	17.5	17.9	17.5	17.4	17.8	17.1	16.9	16.8	16.2
90°	38.5	39.1	39.8	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7
92.5°	55.4	55.0	54.7	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5
95°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9
97.5°	161.8	161.6	161.5	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5
100°	202.6	203.2	203.8	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5
102.5°	248.9	248.7	248.6	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8
105°	318.3	318.9	319.4	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4
107.5°	395.6	395.2	394.8	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8
110°	446.8	446.3	445.7	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	499.3	499.1	499.0	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8
115°	573.7	573.5	573.1	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5
117.5°	650.3	649.5	648.7	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8
120°	702.4	701.8	701.2	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0
122.5°	753.7	752.8	752.0	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8
125°	830.5	829.4	828.1	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4
127.5°	906.7	905.3	903.9	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9
130°	958.3	956.2	954.1	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4
132.5°	1008.5	1006.9	1005.2	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5
135°	1085.6	1084.9	1084.4	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5
137.5°	1157.9	1156.8	1155.7	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8
140°	1207.0	1205.0	1202.8	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9
142.5°	1252.9	1251.3	1249.7	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2
145°	1320.0	1318.8	1317.6	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5
147.5°	1382.6	1380.8	1378.9	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3
150°	1421.3	1419.5	1417.7	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0
152.5°	1458.2	1456.7	1455.1	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4
155°	1510.9	1508.9	1506.7	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1
157.5°	1556.2	1554.5	1552.8	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6
160°	1584.9	1583.7	1582.5	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0
162.5°	1609.6	1607.8	1605.8	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7
165°	1642.7	1640.7	1638.5	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4
167.5°	1669.7	1667.9	1666.0	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9
170°	1684.4	1682.3	1680.3	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3
172.5°	1695.1	1693.1	1691.0	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6
175°	1707.3	1705.1	1703.1	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9
177.5°	1712.4	1710.7	1709.1	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	761.5	765.4	769.2	772.7	778.2	780.6	784.2	785.5	789.6	795.7	800.6
5°	715.2	720.7	727.8	733.6	742.9	750.0	757.9	765.4	774.3	786.9	798.2
7.5°	675.9	681.3	689.9	700.7	710.9	721.0	731.8	742.0	754.7	772.8	790.8
10°	650.0	656.5	666.7	678.3	690.9	700.9	713.5	726.5	742.2	763.0	784.5
12.5°	627.6	632.4	644.3	655.3	669.6	682.2	694.6	709.8	727.7	749.9	775.8
15°	591.9	598.7	610.4	622.6	637.7	650.9	667.0	685.5	702.9	730.2	761.6
17.5°	556.1	566.5	578.5	592.5	603.6	622.0	639.4	658.3	679.8	708.7	743.2
20°	533.2	541.4	552.6	572.7	587.5	601.5	617.5	641.1	660.8	693.7	729.5
22.5°	513.7	519.8	532.4	549.0	566.1	582.3	598.7	621.2	645.6	676.7	715.6
25°	485.0	494.5	504.1	516.0	534.5	554.0	571.8	590.8	616.8	650.0	692.0
27.5°	456.9	465.6	475.0	489.7	503.7	521.9	540.5	562.4	590.2	625.3	667.9
30°	438.9	445.4	454.2	473.1	485.7	501.4	523.3	542.7	568.6	605.9	650.9
32.5°	420.3	428.7	438.4	452.8	468.4	483.3	503.3	524.4	550.9	587.5	633.7
35°	393.8	403.7	413.6	424.2	439.9	455.3	472.0	495.3	522.2	557.8	603.2
37.5°	369.4	377.4	385.5	398.6	413.5	428.1	443.7	466.6	492.0	530.4	572.0
40°	353.8	361.1	367.1	380.8	395.2	410.9	426.2	446.4	473.7	509.6	549.9
42.5°	336.9	343.5	351.9	363.0	378.5	391.7	407.2	426.1	451.8	488.3	523.6
45°	311.5	319.0	326.2	336.8	352.1	365.1	378.8	396.9	423.2	453.3	484.6
47.5°	285.1	292.6	300.8	311.0	324.4	337.6	351.2	367.3	391.3	420.8	441.9
50°	268.1	274.3	282.5	292.7	305.0	319.0	331.3	348.7	371.6	394.8	413.3
52.5°	250.7	256.2	265.6	276.3	287.8	299.9	313.0	328.0	348.7	370.5	385.1
55°	223.4	230.2	238.1	248.6	259.9	270.2	282.8	298.2	314.6	330.9	340.9
57.5°	197.9	203.6	210.2	221.1	230.9	243.1	254.4	266.4	281.6	293.9	300.4
60°	179.3	184.4	193.0	202.5	211.8	222.3	235.3	247.3	258.9	268.8	273.9
62.5°	161.8	167.7	175.2	184.0	194.0	204.0	215.3	225.4	235.7	244.2	247.7
65°	139.0	143.8	149.3	157.5	165.7	175.9	184.8	195.0	202.5	207.3	210.4
67.5°	118.2	121.4	125.6	131.0	139.1	148.0	156.7	164.6	170.9	174.2	176.9
70°	104.9	106.9	109.9	115.5	121.6	129.5	138.3	144.1	149.6	152.3	155.1
72.5°	91.5	94.1	96.8	101.2	106.3	112.0	118.4	125.6	128.6	131.8	133.5
75°	69.4	73.1	76.9	79.5	83.0	87.5	93.3	97.6	99.4	102.1	102.5
77.5°	52.3	53.1	55.9	59.3	62.2	65.4	69.0	73.0	73.8	75.3	76.2
80°	43.1	43.1	43.1	45.1	48.5	50.9	54.3	56.4	57.7	58.1	58.4
82.5°	34.6	34.6	34.3	34.7	35.9	37.2	40.4	42.7	43.8	43.6	42.8
85°	22.6	21.8	21.8	21.5	21.8	21.1	20.9	22.2	24.3	24.3	23.5
87.5°	16.0	15.4	15.0	13.9	12.8	11.9	10.3	10.0	9.4	9.9	9.0
90°	33.4	32.3	28.4	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3
92.5°	52.6	51.6	49.4	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5
95°	100.7	99.5	97.1	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4
97.5°	157.1	155.7	154.0	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9
100°	198.6	197.7	196.2	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9
102.5°	245.9	245.0	243.0	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3
105°	317.4	317.4	314.7	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6
107.5°	392.8	391.8	390.7	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4
110°	443.6	442.4	441.8	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.4	492.9	492.8	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8
115°	573.1	572.8	573.5	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5
117.5°	651.8	651.9	652.6	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7
120°	704.3	704.6	706.1	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3
122.5°	757.6	758.4	759.2	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0
125°	836.5	837.8	838.3	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3
127.5°	914.5	916.2	916.9	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6
130°	965.6	966.8	967.7	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1
132.5°	1015.9	1017.4	1018.0	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6
135°	1090.7	1091.9	1092.2	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1
137.5°	1164.0	1165.3	1164.5	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0
140°	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5
142.5°	1256.4	1256.7	1256.2	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6
145°	1322.9	1323.1	1322.2	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4
147.5°	1385.3	1385.3	1384.4	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6
150°	1424.0	1424.0	1423.3	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6
152.5°	1458.9	1458.4	1458.0	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0
155°	1509.9	1508.7	1508.4	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1554.3	1553.1	1552.8	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6
160°	1581.4	1579.9	1579.9	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7
162.5°	1607.3	1605.8	1605.5	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5
165°	1639.6	1637.8	1637.8	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8
167.5°	1666.0	1664.1	1663.9	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5
170°	1680.3	1678.1	1678.1	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5
172.5°	1691.8	1690.0	1690.0	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3
175°	1704.1	1702.4	1702.4	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7
177.5°	1709.9	1708.5	1708.5	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	802.2	805.2	809.0	814.8	819.1	823.0	823.8	824.9	827.6	832.2	835.8
5°	807.4	815.3	827.9	840.2	853.5	864.4	874.7	881.9	888.7	903.0	914.6
7.5°	805.7	823.2	843.0	865.1	887.4	909.1	929.2	947.2	965.1	986.0	1009.8
10°	804.7	825.2	851.8	880.1	911.2	941.6	971.0	993.9	1020.6	1044.5	1074.9
12.5°	799.5	829.0	860.9	897.1	935.3	970.4	1009.0	1040.6	1071.0	1105.6	1140.9
15°	792.7	828.6	868.9	917.0	975.1	1017.4	1057.0	1112.1	1149.6	1187.2	1237.8
17.5°	780.3	824.1	874.5	937.0	985.5	1042.4	1102.0	1145.5	1196.1	1249.0	1294.8
20°	770.5	821.4	877.8	939.2	1001.0	1062.9	1120.6	1172.5	1224.8	1285.9	1323.5
22.5°	760.7	811.0	869.6	934.9	1001.3	1066.4	1131.8	1192.8	1251.5	1313.2	1361.2
25°	739.8	799.5	863.1	929.7	995.2	1066.9	1144.9	1212.8	1285.6	1349.1	1394.5
27.5°	718.6	773.4	836.6	904.2	977.0	1061.8	1153.4	1230.7	1303.6	1349.1	1363.3
30°	699.5	757.5	815.6	884.2	963.1	1057.7	1155.1	1243.6	1303.3	1323.1	1308.4
32.5°	680.1	732.7	790.2	860.5	944.3	1047.7	1157.3	1235.9	1271.9	1256.8	1196.9
35°	645.9	693.3	749.0	819.4	915.7	1042.1	1148.3	1201.6	1192.7	1107.2	994.5
37.5°	609.2	647.9	699.5	773.0	886.0	1019.8	1109.5	1117.3	1040.4	909.4	779.2
40°	580.2	615.1	668.1	744.9	863.1	998.0	1070.4	1038.7	919.4	773.6	664.9
42.5°	552.1	581.5	632.5	715.4	841.2	968.2	1012.2	943.0	805.5	667.5	568.8
45°	504.4	532.1	583.4	668.4	796.5	911.2	905.4	785.2	647.6	536.5	454.6
47.5°	459.2	483.4	531.5	618.3	744.0	825.8	771.5	643.6	526.8	437.8	379.3
50°	427.3	451.2	499.0	584.7	701.9	761.6	684.1	560.8	453.9	380.1	333.7
52.5°	396.6	420.0	463.8	547.2	651.0	686.8	603.5	489.2	400.1	336.4	296.5
55°	353.8	371.6	410.9	490.8	568.3	576.5	492.1	396.5	323.1	278.7	251.4
57.5°	310.2	325.5	364.3	427.9	482.3	478.0	398.1	315.4	265.9	232.9	213.1
60°	281.8	296.8	330.9	385.6	426.6	412.2	338.9	272.2	229.9	205.6	189.9
62.5°	255.3	267.0	299.0	338.9	368.4	352.1	289.6	234.5	200.9	180.5	168.0
65°	216.9	226.4	252.1	272.9	289.3	273.6	221.7	183.4	159.2	144.8	136.3
67.5°	180.4	186.5	202.7	210.2	221.8	204.6	166.7	141.1	127.2	115.2	109.2
70°	157.5	161.9	170.4	176.6	179.7	161.9	133.8	115.1	103.5	95.0	91.2
72.5°	134.5	138.4	140.1	145.2	143.6	126.9	107.6	92.7	84.4	78.6	73.7
75°	102.8	104.5	102.8	100.8	96.3	84.7	71.4	63.8	57.7	55.0	53.3
77.5°	74.9	74.4	72.1	68.8	61.3	53.9	46.8	44.2	41.6	40.1	39.6
80°	57.7	56.4	54.3	49.2	42.7	37.5	35.8	34.2	33.2	31.4	31.1
82.5°	43.0	42.2	38.7	34.4	29.9	27.5	26.0	25.4	24.3	23.5	23.5
85°	22.9	21.8	18.1	15.7	15.1	14.4	14.0	14.0	12.7	12.3	12.3
87.5°	8.2	7.2	7.5	7.3	8.0	8.2	9.3	9.5	10.0	10.5	10.3
90°	4.4	7.3	10.3	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7
92.5°	34.6	36.6	38.6	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5
95°	81.4	83.6	85.6	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9
97.5°	142.5	144.0	145.6	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5
100°	184.7	186.5	188.2	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5
102.5°	232.4	233.4	234.5	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8
105°	303.2	303.7	304.3	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4
107.5°	385.8	386.1	386.5	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8
110°	437.7	438.2	438.8	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	491.2	491.5	491.9	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8
115°	572.4	573.3	574.2	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5
117.5°	653.3	653.9	654.5	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8
120°	705.1	706.9	708.6	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0
122.5°	757.2	758.6	759.9	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8
125°	837.2	838.2	839.1	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4
127.5°	912.5	914.4	916.3	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9
130°	962.5	964.8	967.2	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4
132.5°	1011.9	1014.3	1016.7	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5
135°	1086.9	1088.7	1090.5	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5
137.5°	1156.5	1158.1	1159.6	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8
140°	1205.0	1206.5	1207.9	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9
142.5°	1249.0	1250.5	1252.1	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2
145°	1317.1	1317.6	1318.2	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5
147.5°	1377.7	1378.8	1379.9	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3
150°	1419.2	1419.8	1420.4	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0
152.5°	1453.8	1454.7	1455.5	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4
155°	1507.3	1507.3	1507.3	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1
157.5°	1553.3	1552.9	1552.6	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6
160°	1582.1	1581.4	1580.8	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0
162.5°	1607.7	1606.8	1606.0	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7
165°	1640.9	1640.0	1639.1	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4
167.5°	1667.2	1666.1	1664.8	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9
170°	1682.3	1681.1	1679.9	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3
172.5°	1694.2	1692.9	1691.8	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6
175°	1706.6	1705.3	1704.1	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9
177.5°	1711.9	1710.9	1709.9	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	841.6	841.6	842.7	846.8	847.3	850.9	849.7
5°	924.9	931.4	933.8	944.1	950.2	952.9	947.4
7.5°	1026.8	1045.1	1053.8	1064.5	1074.0	1076.9	1069.4
10°	1101.2	1120.3	1136.3	1146.2	1155.5	1161.5	1169.5
12.5°	1173.0	1196.5	1211.7	1225.7	1235.2	1243.0	1244.3
15°	1251.1	1286.6	1313.6	1333.4	1343.3	1348.4	1346.4
17.5°	1329.8	1362.7	1382.0	1402.1	1415.9	1416.6	1417.0
20°	1374.4	1406.5	1428.7	1443.7	1459.1	1458.4	1461.8
22.5°	1404.2	1429.4	1446.4	1457.3	1462.6	1460.0	1460.7
25°	1418.1	1425.6	1422.5	1405.1	1400.7	1384.6	1387.3
27.5°	1346.2	1310.7	1274.0	1226.6	1189.4	1159.6	1161.1
30°	1248.7	1185.8	1114.1	1054.0	1000.1	985.0	952.9
32.5°	1112.3	1018.1	934.1	878.1	831.7	819.1	791.1
35°	881.2	789.6	703.2	651.3	630.8	602.2	601.8
37.5°	684.9	604.3	558.7	519.7	499.3	481.9	480.2
40°	576.2	513.4	478.8	450.8	430.7	417.7	414.6
42.5°	500.2	449.4	417.1	399.8	384.2	377.6	372.6
45°	408.5	374.3	351.8	336.1	328.9	323.8	321.0
47.5°	341.7	318.8	303.4	293.0	287.1	281.8	283.2
50°	305.3	286.6	275.3	265.4	260.9	257.2	257.5
52.5°	276.1	259.2	250.1	243.0	237.5	234.8	233.4
55°	234.3	223.7	214.5	209.4	206.3	202.5	201.5
57.5°	199.8	191.6	184.1	178.3	177.6	174.0	174.4
60°	176.9	170.0	163.9	160.9	158.5	155.4	156.4
62.5°	158.1	152.3	146.7	144.2	141.8	139.6	140.0
65°	129.5	123.9	120.6	119.2	118.2	117.2	116.1
67.5°	103.2	99.8	97.6	94.7	92.6	92.3	91.2
70°	86.8	82.3	78.6	74.8	73.7	73.4	73.7
72.5°	69.6	66.7	65.7	63.8	63.7	62.8	63.4
75°	52.3	51.3	50.6	49.2	49.2	49.2	49.2
77.5°	38.5	37.9	37.5	37.2	36.9	36.4	36.4
80°	30.1	29.7	29.1	29.1	28.7	29.1	28.7
82.5°	22.6	22.6	21.9	21.9	21.6	21.4	21.6
85°	11.6	11.2	11.9	11.2	11.6	11.0	11.6
87.5°	10.4	10.7	10.6	10.7	10.5	11.2	10.8
90°	35.8	37.1	38.0	38.5	39.1	39.8	40.3
92.5°	54.5	55.5	55.7	55.4	55.0	54.7	54.3
95°	103.1	104.2	104.9	104.9	104.9	104.9	104.9
97.5°	159.8	161.2	161.8	161.8	161.6	161.5	161.4
100°	200.4	201.3	202.0	202.6	203.2	203.8	204.4
102.5°	247.7	248.6	249.0	248.9	248.7	248.6	248.5
105°	317.4	317.4	317.6	318.3	318.9	319.4	320.0
107.5°	394.7	395.7	395.9	395.6	395.2	394.8	394.5
110°	445.9	447.2	447.5	446.8	446.3	445.7	445.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	497.2	498.6	499.4	499.3	499.1	499.0	498.8
115°	573.7	574.0	574.0	573.7	573.5	573.1	572.8
117.5°	651.8	651.7	651.2	650.3	649.5	648.7	647.8
120°	703.7	703.4	702.9	702.4	701.8	701.2	700.5
122.5°	756.1	755.3	754.5	753.7	752.8	752.0	751.1
125°	834.1	832.9	831.7	830.5	829.4	828.1	827.0
127.5°	911.2	909.5	908.0	906.7	905.3	903.9	902.5
130°	963.2	962.1	960.4	958.3	956.2	954.1	952.0
132.5°	1013.1	1011.6	1010.1	1008.5	1006.9	1005.2	1003.6
135°	1088.2	1087.1	1086.2	1085.6	1084.9	1084.4	1083.8
137.5°	1161.5	1160.3	1159.0	1157.9	1156.8	1155.7	1154.5
140°	1210.7	1210.3	1209.2	1207.0	1205.0	1202.8	1200.8
142.5°	1255.8	1255.5	1254.5	1252.9	1251.3	1249.7	1248.1
145°	1322.2	1322.0	1321.2	1320.0	1318.8	1317.6	1316.4
147.5°	1385.3	1385.3	1384.4	1382.6	1380.8	1378.9	1377.2
150°	1424.0	1424.0	1423.1	1421.3	1419.5	1417.7	1415.9
152.5°	1459.8	1460.4	1459.8	1458.2	1456.7	1455.1	1453.6
155°	1512.3	1513.5	1513.1	1510.9	1508.9	1506.7	1504.7
157.5°	1556.8	1558.1	1557.9	1556.2	1554.5	1552.8	1551.2
160°	1584.5	1585.9	1586.1	1584.9	1583.7	1582.5	1581.3
162.5°	1610.3	1611.8	1611.6	1609.6	1607.8	1605.8	1603.9
165°	1643.2	1644.9	1644.8	1642.7	1640.7	1638.5	1636.5
167.5°	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1
170°	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1
172.5°	1695.5	1697.4	1697.3	1695.1	1693.1	1691.0	1688.9
175°	1707.7	1709.5	1709.3	1707.3	1705.1	1703.1	1701.0
177.5°	1712.8	1714.2	1714.1	1712.4	1710.7	1709.1	1707.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7

(END OF REPORT)