

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: P331457-927

Luminaire Tested: **SA2XXDIP-C1005D1080U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331457-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D1080U927-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6538.4 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

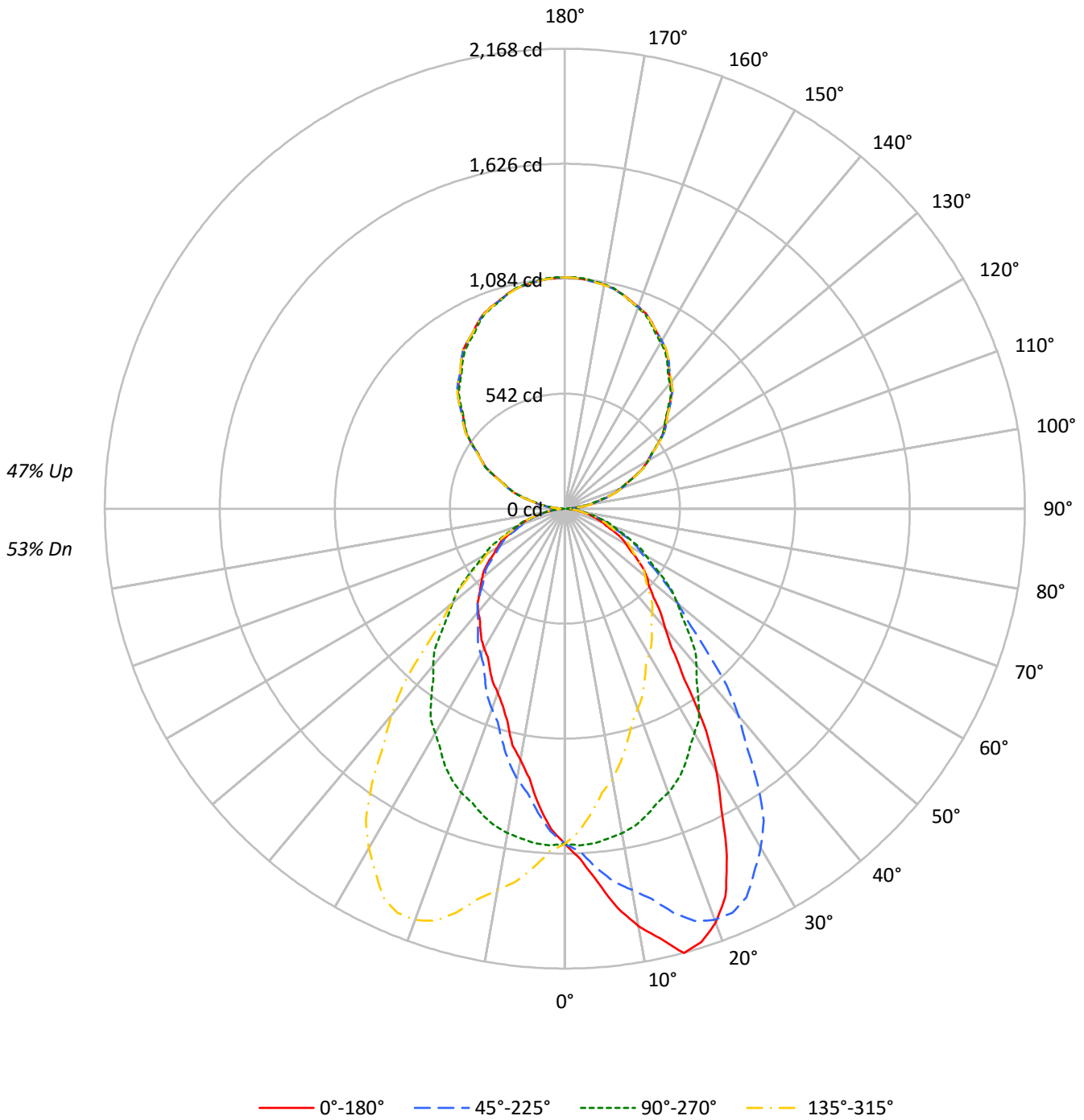
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	42	40	38	34
4	76	66	58	52	70	61	55	49	53	48	44	45	41	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	34	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25504	25504	25504	25504
5°	28593	25671	22749	25671
10°	32765	25460	19687	25460
15°	36247	24993	17392	24993
20°	35696	24493	15856	24493
25°	32186	23826	14883	23826
30°	26597	22760	14171	22760
35°	19385	21646	13665	21646
40°	15483	20331	13384	20331
45°	13531	18810	13001	18810
50°	12717	17337	12750	17337
55°	11724	15842	12408	15842
60°	10743	14250	11880	14250
65°	9788	12825	11366	12825
70°	8884	11434	10607	11434
75°	7879	9881	9395	9881
80°	6778	8182	7569	8182
85°	6076	6076	4502	6076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	2.3
10°-20°	437.4	6.7
20°-30°	634.7	9.7
30°-40°	669.8	10.2
40°-50°	593.0	9.1
50°-60°	473.3	7.2
60°-70°	321.7	4.9
70°-80°	164.9	2.5
80°-90°	44.1	0.7
90°-100°	69.1	1.1
100°-110°	214.6	3.3
110°-120°	366.8	5.6
120°-130°	482.4	7.4
130°-140°	541.4	8.3
140°-150°	530.9	8.1
150°-160°	445.3	6.8
160°-170°	295.3	4.5
170°-180°	103.2	1.6
0°-30°	1222.5	18.7
0°-40°	1892.3	28.9
0°-60°	2958.6	45.3
0°-90°	3489.4	53.4
90°-120°	650.5	9.9
90°-150°	2205.2	33.7
90°-180°	3049.0	46.6
0°-180°	6538.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1580	1580	1580	1580	1580	
5°	1764	1584	1404	1584	1764	176
15°	2168	1495	1040	1495	2168	598
25°	1807	1337	835	1337	1807	817
35°	984	1098	693	1098	984	640
45°	593	824	569	824	593	466
55°	416	563	441	563	416	373
65°	256	336	298	336	256	255
75°	126	158	151	158	126	135
85°	33	33	24	33	33	37
90°	31	1	31	1	31	15
95°	57	48	57	48	57	64
105°	204	198	204	198	204	215
115°	368	368	368	368	368	363
125°	537	536	537	536	537	479
135°	701	693	701	693	701	540
145°	850	841	850	841	850	531
155°	969	962	969	962	969	446
165°	1047	1046	1047	1046	1047	295
175°	1085	1089	1085	1089	1085	103
180°	1090	1090	1090	1090	1090	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1652.5	1653.0	1653.9	1646.2	1645.2	1645.2	1638.4	1632.6	1625.8	1616.5	1617.6
5°	1764.2	1770.8	1773.3	1766.0	1755.1	1753.9	1743.6	1726.6	1710.8	1698.0	1688.9
7.5°	1897.5	1900.2	1894.3	1884.7	1876.5	1861.9	1842.8	1823.9	1797.6	1773.5	1755.5
10°	1998.5	2002.2	1991.9	1977.9	1966.4	1949.4	1921.4	1892.9	1858.3	1825.0	1798.2
12.5°	2075.3	2084.2	2071.0	2069.2	2049.5	2026.1	1992.8	1978.4	1929.7	1883.2	1854.6
15°	2168.5	2167.9	2169.2	2157.6	2143.0	2139.4	2104.2	2065.9	1997.3	1970.0	1922.6
17.5°	2141.6	2150.8	2155.1	2154.9	2154.6	2152.3	2141.0	2116.8	2082.4	2038.1	1983.5
20°	2077.5	2089.6	2091.4	2105.4	2113.3	2123.6	2127.9	2121.1	2099.9	2062.9	2015.5
22.5°	1978.4	1981.8	1987.5	2009.2	2026.3	2052.2	2065.7	2088.1	2080.0	2061.9	2022.4
25°	1806.7	1800.6	1821.9	1832.8	1872.2	1913.5	1943.3	1976.1	2005.3	2022.8	2011.3
27.5°	1600.5	1591.4	1623.3	1652.3	1684.3	1729.0	1775.4	1830.1	1875.7	1932.6	1952.2
30°	1426.6	1432.1	1462.4	1493.4	1542.0	1605.1	1657.3	1717.5	1782.4	1846.2	1890.5
32.5°	1239.2	1260.2	1279.4	1326.8	1369.6	1440.0	1516.5	1591.7	1672.7	1745.2	1813.8
35°	983.5	1007.7	1034.5	1069.1	1129.2	1199.0	1273.7	1375.1	1485.6	1584.5	1665.9
37.5°	827.8	823.9	839.2	864.3	912.9	969.3	1055.3	1155.4	1285.5	1401.8	1516.5
40°	734.6	732.1	743.1	766.1	803.2	844.5	919.7	1007.7	1128.5	1270.7	1407.2
42.5°	670.5	671.9	678.0	694.3	719.6	753.6	810.0	884.9	995.5	1129.3	1276.1
45°	592.6	596.8	603.5	611.3	625.9	653.9	685.4	738.9	826.2	937.9	1082.4
47.5°	536.4	536.5	543.4	550.2	558.9	574.6	600.4	633.9	695.6	786.6	910.8
50°	506.3	502.1	506.9	512.4	521.5	532.4	549.4	581.0	622.3	695.7	799.5
52.5°	469.4	469.5	473.9	475.9	484.1	495.0	510.6	532.4	569.8	627.2	712.6
55°	416.5	419.5	421.9	425.6	432.8	440.8	452.9	467.5	496.6	539.7	602.9
57.5°	366.7	367.7	370.1	377.0	381.6	388.9	400.4	413.7	432.6	464.5	512.0
60°	332.7	332.7	337.5	340.6	346.7	353.9	363.1	375.8	392.8	418.9	457.2
62.5°	301.6	301.1	303.1	308.0	312.7	319.5	328.5	339.4	355.4	378.6	410.0
65°	256.2	255.0	258.6	259.8	264.7	271.4	278.7	290.2	302.9	320.0	347.8
67.5°	212.5	214.0	215.9	218.2	220.9	227.9	232.7	240.9	251.7	265.8	284.7
70°	188.2	188.2	188.2	190.0	193.7	197.3	202.2	208.8	219.2	231.3	248.3
72.5°	161.0	163.0	164.9	163.8	168.4	170.6	176.4	180.2	190.0	197.8	212.9
75°	126.3	126.3	126.3	129.3	131.1	132.9	136.6	140.2	145.1	154.8	162.7
77.5°	94.2	94.0	94.6	95.3	97.3	99.4	100.5	103.8	108.3	112.8	119.5
80°	72.9	74.1	74.7	75.9	75.9	77.1	77.7	82.0	85.0	88.0	92.3
82.5°	56.3	56.6	56.7	57.0	57.4	58.1	59.7	61.1	62.2	64.7	68.0
85°	32.8	32.2	32.2	33.4	32.8	32.8	34.0	35.2	35.2	35.8	37.6
87.5°	18.9	18.9	19.3	18.8	18.7	19.3	19.3	18.9	19.5	20.0	19.6
90°	31.3	31.1	30.9	30.7	30.5	30.6	31.0	31.4	31.8	32.2	27.7
92.5°	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.4	29.3	29.2	28.2
95°	57.0	57.4	57.9	58.3	58.7	58.9	58.9	58.9	58.9	58.9	58.5
97.5°	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	98.2
100°	126.0	126.3	126.5	126.7	126.9	127.0	127.0	127.0	127.0	127.0	126.4
102.5°	157.0	157.2	157.4	157.6	157.8	157.8	157.6	157.5	157.3	157.2	156.4
105°	204.3	204.3	204.3	204.3	204.3	204.1	203.7	203.3	202.9	202.4	202.0
107.5°	248.8	249.8	250.7	251.7	252.5	252.9	252.8	252.6	252.5	252.3	252.3
110°	283.4	284.0	284.6	285.3	285.9	286.2	286.2	286.2	286.2	286.2	286.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	316.6	317.0	317.4	317.9	318.4	318.9	319.3	319.8	320.3	320.8	320.9
115°	368.0	368.7	369.3	369.9	370.5	370.9	371.1	371.4	371.5	371.8	372.2
117.5°	417.2	417.8	418.4	419.1	419.7	420.3	420.7	421.2	421.7	422.2	423.3
120°	451.8	452.4	453.0	453.7	454.2	454.6	454.6	454.6	454.6	454.6	456.2
122.5°	485.7	486.2	486.6	487.0	487.5	487.9	488.5	488.9	489.4	489.9	491.1
125°	537.4	537.6	537.8	538.0	538.2	538.6	539.2	539.9	540.4	541.1	541.7
127.5°	584.5	585.2	585.8	586.5	587.1	587.8	588.5	589.3	590.0	590.7	591.5
130°	618.4	619.2	620.0	620.8	621.6	622.3	622.7	623.1	623.4	623.9	624.3
132.5°	650.8	651.4	652.0	652.8	653.4	654.2	655.1	655.9	656.9	657.7	657.7
135°	701.2	701.8	702.4	703.0	703.6	704.0	704.3	704.5	704.6	704.9	704.5
137.5°	746.8	747.7	748.5	749.2	750.1	750.6	750.8	750.9	751.1	751.2	750.7
140°	778.5	779.3	780.1	780.9	781.7	782.1	782.1	782.1	782.1	782.1	781.2
142.5°	807.2	808.0	808.8	809.6	810.5	810.8	810.6	810.5	810.3	810.2	809.5
145°	850.2	851.0	851.9	852.7	853.5	853.8	853.7	853.4	853.2	853.0	851.8
147.5°	888.7	889.5	890.3	891.0	891.8	892.0	891.5	891.1	890.7	890.2	889.4
150°	913.8	914.3	915.0	915.6	916.2	916.2	915.6	915.0	914.3	913.8	912.9
152.5°	937.3	938.1	938.9	939.6	940.4	940.4	939.6	938.9	938.1	937.3	936.4
155°	968.9	969.6	970.2	970.8	971.4	971.2	970.2	969.2	968.1	967.1	966.5
157.5°	996.2	997.2	998.1	999.1	1000.1	999.9	998.5	997.1	995.8	994.3	994.0
160°	1013.1	1013.9	1014.8	1015.6	1016.4	1016.2	1014.9	1013.8	1012.5	1011.3	1011.1
162.5°	1027.9	1028.8	1029.8	1030.8	1031.7	1031.6	1030.2	1028.8	1027.4	1026.0	1025.8
165°	1047.2	1048.2	1049.2	1050.3	1051.2	1051.1	1049.6	1048.2	1046.8	1045.4	1045.4
167.5°	1063.0	1064.1	1065.1	1066.2	1067.2	1067.1	1065.6	1064.2	1062.8	1061.4	1061.4
170°	1071.1	1072.3	1073.6	1074.8	1076.0	1075.9	1074.4	1073.0	1071.6	1070.2	1070.4
172.5°	1077.7	1079.0	1080.1	1081.4	1082.6	1082.5	1081.1	1079.7	1078.2	1076.8	1077.0
175°	1084.9	1086.2	1087.3	1088.6	1089.8	1089.7	1088.3	1086.9	1085.4	1083.9	1084.4
177.5°	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1	1091.2	1090.2	1089.2	1088.2	1088.5
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1621.0	1617.1	1614.6	1605.9	1598.1	1590.3	1587.9	1588.9	1578.2	1568.0	1563.6
5°	1684.1	1671.9	1660.4	1644.0	1624.6	1603.3	1592.4	1583.9	1562.7	1539.6	1526.2
7.5°	1740.7	1723.3	1701.1	1670.2	1642.0	1608.5	1587.3	1568.4	1537.4	1504.8	1484.9
10°	1775.1	1751.4	1722.9	1685.3	1650.7	1610.0	1581.4	1552.9	1516.5	1477.7	1453.3
12.5°	1804.7	1772.8	1744.8	1696.5	1655.5	1604.6	1570.8	1530.6	1492.2	1446.0	1422.3
15°	1875.3	1816.4	1763.0	1708.3	1658.0	1586.9	1549.3	1495.2	1444.9	1387.8	1360.5
17.5°	1929.8	1863.6	1779.5	1710.1	1651.3	1572.6	1517.3	1452.6	1393.1	1327.9	1290.7
20°	1960.9	1885.0	1794.5	1712.0	1641.6	1551.7	1491.6	1425.5	1355.7	1282.1	1242.1
22.5°	1979.3	1899.6	1810.1	1704.7	1622.2	1534.7	1459.0	1386.6	1315.8	1236.5	1194.5
25°	1985.2	1912.3	1817.7	1698.7	1597.8	1498.9	1407.9	1337.4	1251.8	1177.7	1116.4
27.5°	1956.3	1904.1	1813.0	1687.2	1569.8	1454.1	1352.6	1272.8	1182.5	1102.1	1040.5
30°	1920.8	1890.5	1801.8	1675.5	1547.4	1423.0	1311.3	1220.8	1131.0	1049.6	986.5
32.5°	1866.0	1859.4	1781.5	1659.1	1523.7	1383.7	1268.1	1176.6	1077.1	997.2	937.0
35°	1758.2	1787.2	1738.1	1622.2	1478.8	1327.7	1202.6	1098.2	995.1	918.5	862.1
37.5°	1613.7	1686.0	1673.2	1568.1	1418.4	1266.8	1128.7	1019.5	921.2	844.0	788.6
40°	1514.1	1606.4	1619.7	1526.9	1375.7	1219.6	1073.3	964.6	868.7	798.4	742.4
42.5°	1407.2	1515.0	1551.7	1477.3	1329.0	1170.1	1023.8	911.2	816.3	747.8	698.3
45°	1228.1	1370.8	1437.0	1394.5	1251.3	1088.5	937.9	823.8	737.6	673.3	635.0
47.5°	1060.7	1216.6	1305.6	1290.5	1164.7	1003.5	854.7	745.1	661.2	609.9	575.7
50°	942.2	1102.5	1209.9	1214.8	1102.5	942.8	793.4	690.2	613.1	565.2	537.3
52.5°	839.2	992.2	1109.4	1135.1	1033.0	879.6	738.6	635.9	568.0	523.9	498.9
55°	704.8	834.2	964.1	1011.4	929.5	783.8	653.2	562.8	499.0	468.7	446.8
57.5°	586.0	693.8	813.7	866.1	815.6	690.9	568.5	489.9	438.2	411.6	394.8
60°	523.3	608.3	715.2	777.7	734.0	622.9	516.0	441.3	398.9	375.2	359.4
62.5°	465.0	540.3	630.7	687.9	664.0	559.3	463.6	397.7	361.0	338.7	327.3
65°	383.7	443.1	513.0	565.8	550.0	470.5	392.2	335.7	306.6	289.0	279.9
67.5°	315.9	358.9	407.3	453.6	440.8	384.5	321.6	277.7	256.0	240.7	235.3
70°	273.2	305.9	349.1	386.1	375.8	329.6	279.9	242.2	223.4	210.6	205.2
72.5°	232.4	259.4	292.2	322.5	315.5	277.2	235.7	207.2	192.8	181.0	176.6
75°	175.5	196.1	216.1	236.1	234.3	204.6	180.3	158.4	146.9	137.8	136.0
77.5°	129.5	141.1	154.7	166.6	163.3	146.3	127.2	114.7	106.2	100.1	99.2
80°	98.9	105.6	115.3	123.8	119.6	112.3	97.1	88.0	82.0	75.9	73.4
82.5°	71.8	78.4	84.3	88.9	85.6	78.8	69.5	63.3	59.7	55.5	54.5
85°	37.6	41.3	43.7	44.9	43.7	39.5	35.2	32.8	29.8	28.0	27.3
87.5°	19.3	18.3	17.4	17.7	15.8	15.3	12.8	10.9	10.9	10.9	10.4
90°	23.2	18.7	14.2	10.8	8.3	5.9	3.4	1.0	3.4	5.9	8.3
92.5°	27.2	26.1	25.0	23.6	21.8	20.0	18.1	16.4	18.1	20.0	21.8
95°	58.1	57.7	57.3	56.0	53.9	52.0	49.9	47.8	49.9	52.0	53.9
97.5°	97.4	96.6	95.9	94.6	92.8	91.0	89.2	87.5	89.2	91.0	92.8
100°	125.7	125.2	124.5	123.4	121.8	120.2	118.5	116.8	118.5	120.2	121.8
102.5°	155.6	154.9	154.1	153.0	151.7	150.4	149.1	147.8	149.1	150.4	151.7
105°	201.6	201.2	200.8	200.3	199.7	199.1	198.4	197.8	198.4	199.1	199.7
107.5°	252.3	252.3	252.3	251.8	251.0	250.1	249.1	248.3	249.1	250.1	251.0
110°	286.2	286.2	286.2	285.6	284.3	283.1	281.9	280.7	281.9	283.1	284.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	321.1	321.2	321.5	320.9	319.6	318.5	317.2	316.0	317.2	318.5	319.6
115°	372.6	373.0	373.4	373.0	371.8	370.5	369.3	368.0	369.3	370.5	371.8
117.5°	424.5	425.6	426.7	426.5	424.8	423.3	421.6	419.9	421.6	423.3	424.8
120°	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6	456.2	457.9	459.5
122.5°	492.2	493.4	494.5	494.1	492.1	490.1	488.2	486.2	488.2	490.1	492.1
125°	542.3	542.9	543.5	542.9	541.1	539.2	537.4	535.5	537.4	539.2	541.1
127.5°	592.2	592.9	593.7	592.9	590.6	588.3	585.9	583.6	585.9	588.3	590.6
130°	624.7	625.1	625.5	624.4	621.7	619.1	616.4	613.8	616.4	619.1	621.7
132.5°	657.6	657.5	657.4	656.3	654.1	652.0	649.8	647.6	649.8	652.0	654.1
135°	704.0	703.6	703.2	701.9	699.7	697.4	695.1	692.9	695.1	697.4	699.7
137.5°	750.2	749.6	749.1	747.9	746.1	744.3	742.4	740.5	742.4	744.3	746.1
140°	780.1	779.1	778.1	776.7	774.8	772.9	771.1	769.3	771.1	772.9	774.8
142.5°	808.7	808.0	807.3	806.0	804.2	802.4	800.6	798.8	800.6	802.4	804.2
145°	850.6	849.3	848.1	846.8	845.3	843.9	842.5	841.1	842.5	843.9	845.3
147.5°	888.6	887.7	886.9	885.7	883.9	882.2	880.5	878.8	880.5	882.2	883.9
150°	912.1	911.3	910.5	909.4	908.2	907.0	905.8	904.5	905.8	907.0	908.2
152.5°	935.3	934.4	933.3	932.2	931.1	929.8	928.6	927.3	928.6	929.8	931.1
155°	965.9	965.3	964.6	964.1	963.5	962.8	962.2	961.6	962.2	962.8	963.5
157.5°	993.6	993.2	992.8	992.5	992.0	991.7	991.3	990.9	991.3	991.7	992.0
160°	1010.9	1010.7	1010.4	1010.2	1009.7	1009.3	1008.9	1008.5	1008.9	1009.3	1009.7
162.5°	1025.6	1025.4	1025.2	1025.1	1024.9	1024.8	1024.8	1024.7	1024.8	1024.8	1024.9
165°	1045.4	1045.4	1045.4	1045.4	1045.6	1045.8	1046.1	1046.2	1046.1	1045.8	1045.6
167.5°	1061.4	1061.4	1061.5	1061.8	1062.5	1063.0	1063.7	1064.3	1063.7	1063.0	1062.5
170°	1070.6	1070.8	1071.0	1071.4	1072.0	1072.6	1073.2	1073.9	1073.2	1072.6	1072.0
172.5°	1077.2	1077.4	1077.6	1078.0	1078.6	1079.3	1079.9	1080.5	1079.9	1079.3	1078.6
175°	1084.8	1085.2	1085.6	1086.2	1086.7	1087.3	1088.0	1088.6	1088.0	1087.3	1086.7
177.5°	1088.9	1089.2	1089.5	1090.0	1090.4	1090.9	1091.4	1091.9	1091.4	1090.9	1090.4
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1558.8	1555.8	1545.6	1540.3	1531.6	1523.3	1518.0	1520.4	1522.3	1521.4	1519.9
5°	1514.1	1502.5	1484.9	1469.7	1458.8	1438.8	1430.3	1426.1	1422.4	1418.2	1413.9
7.5°	1460.9	1442.7	1417.5	1395.8	1375.4	1350.5	1336.3	1327.9	1319.1	1309.5	1301.0
10°	1423.0	1397.5	1370.8	1340.5	1316.2	1293.7	1273.7	1260.3	1248.2	1236.7	1228.1
12.5°	1383.2	1353.8	1320.8	1279.3	1252.5	1220.4	1217.3	1193.8	1174.8	1167.7	1157.7
15°	1319.8	1278.5	1236.7	1187.5	1166.3	1137.1	1118.9	1100.7	1084.3	1072.7	1069.7
17.5°	1247.8	1194.4	1152.7	1117.4	1082.6	1052.7	1035.9	1021.4	1007.9	992.4	990.4
20°	1192.9	1146.8	1101.3	1070.3	1034.5	1004.1	983.5	968.9	957.4	948.2	940.4
22.5°	1141.0	1090.4	1048.8	1014.9	979.6	955.1	938.8	924.7	915.1	905.1	897.6
25°	1057.6	1018.1	972.6	934.3	905.1	889.4	876.0	863.9	857.9	851.1	842.6
27.5°	984.6	940.7	898.1	868.5	842.9	828.9	819.4	811.2	805.5	801.6	796.8
30°	933.1	888.7	855.4	826.2	805.0	791.1	785.0	780.1	773.4	771.0	768.6
32.5°	883.5	843.6	815.1	789.8	769.5	760.4	754.9	750.5	745.3	742.8	738.0
35°	813.5	780.1	752.2	738.2	721.8	713.9	709.7	703.6	698.8	696.3	695.7
37.5°	747.6	718.6	700.2	682.2	675.3	670.5	664.6	660.5	659.1	658.7	658.1
40°	704.8	681.1	664.8	650.2	647.1	639.8	635.0	631.4	631.4	632.0	631.4
42.5°	666.0	644.8	630.3	617.7	614.1	609.7	604.9	604.7	605.6	607.7	605.6
45°	607.1	591.9	581.6	575.5	568.9	564.6	564.0	565.8	566.4	567.0	568.9
47.5°	552.9	542.9	533.5	526.8	523.9	523.2	522.4	525.6	528.5	529.7	532.4
50°	520.9	509.4	501.5	497.2	494.8	493.5	494.8	498.4	500.8	503.9	505.7
52.5°	485.0	476.8	471.3	468.1	467.1	467.9	468.1	472.2	476.1	477.2	478.0
55°	435.3	429.2	428.0	422.6	424.9	424.4	427.4	429.8	433.5	437.1	437.7
57.5°	385.7	380.9	377.6	378.1	378.8	381.5	384.0	388.3	392.2	396.1	396.4
60°	352.8	350.3	348.5	348.5	349.7	353.3	356.3	360.6	363.1	365.4	367.3
62.5°	322.6	320.2	318.4	319.3	322.5	324.6	328.2	330.5	333.0	335.3	336.2
65°	275.0	273.8	275.6	276.9	277.4	280.5	284.7	286.5	289.0	290.2	294.5
67.5°	231.2	231.4	231.2	232.9	236.4	237.1	241.1	245.4	245.9	248.2	251.0
70°	201.5	202.8	204.0	205.2	208.3	209.5	212.5	214.3	216.7	218.6	220.4
72.5°	174.4	174.6	175.8	175.5	178.1	180.8	183.3	185.1	187.6	189.9	191.7
75°	134.2	134.2	135.4	136.0	139.0	142.0	141.5	142.7	145.1	147.5	148.8
77.5°	98.0	96.6	98.0	98.6	99.6	102.1	102.6	104.3	107.1	106.2	107.6
80°	74.7	72.9	74.7	75.3	75.3	78.3	78.3	79.5	81.4	79.5	81.4
82.5°	53.3	52.4	53.8	53.9	54.9	55.0	56.0	56.2	58.1	57.2	58.1
85°	26.7	26.1	26.7	26.1	26.7	27.3	27.3	26.7	26.7	28.0	26.1
87.5°	10.4	10.6	11.0	12.0	12.4	12.8	12.2	12.1	12.0	10.9	10.9
90°	10.8	14.2	18.7	23.2	27.7	32.2	31.8	31.4	31.0	30.6	30.5
92.5°	23.6	25.0	26.1	27.2	28.2	29.2	29.3	29.4	29.5	29.6	29.6
95°	56.0	57.3	57.7	58.1	58.5	58.9	58.9	58.9	58.9	58.9	58.7
97.5°	94.6	95.9	96.6	97.4	98.2	99.0	99.0	99.0	99.0	99.0	99.0
100°	123.4	124.5	125.2	125.7	126.4	127.0	127.0	127.0	127.0	127.0	126.9
102.5°	153.0	154.1	154.9	155.6	156.4	157.2	157.3	157.5	157.6	157.8	157.8
105°	200.3	200.8	201.2	201.6	202.0	202.4	202.9	203.3	203.7	204.1	204.3
107.5°	251.8	252.3	252.3	252.3	252.3	252.3	252.5	252.6	252.8	252.9	252.5
110°	285.6	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	285.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	320.9	321.5	321.2	321.1	320.9	320.8	320.3	319.8	319.3	318.9	318.4
115°	373.0	373.4	373.0	372.6	372.2	371.8	371.5	371.4	371.1	370.9	370.5
117.5°	426.5	426.7	425.6	424.5	423.3	422.2	421.7	421.2	420.7	420.3	419.7
120°	461.1	461.1	459.5	457.9	456.2	454.6	454.6	454.6	454.6	454.6	454.2
122.5°	494.1	494.5	493.4	492.2	491.1	489.9	489.4	488.9	488.5	487.9	487.5
125°	542.9	543.5	542.9	542.3	541.7	541.1	540.4	539.9	539.2	538.6	538.2
127.5°	592.9	593.7	592.9	592.2	591.5	590.7	590.0	589.3	588.5	587.8	587.1
130°	624.4	625.5	625.1	624.7	624.3	623.9	623.4	623.1	622.7	622.3	621.6
132.5°	656.3	657.4	657.5	657.6	657.7	657.7	656.9	655.9	655.1	654.2	653.4
135°	701.9	703.2	703.6	704.0	704.5	704.9	704.6	704.5	704.3	704.0	703.6
137.5°	747.9	749.1	749.6	750.2	750.7	751.2	751.1	750.9	750.8	750.6	750.1
140°	776.7	778.1	779.1	780.1	781.2	782.1	782.1	782.1	782.1	782.1	781.7
142.5°	806.0	807.3	808.0	808.7	809.5	810.2	810.3	810.5	810.6	810.8	810.5
145°	846.8	848.1	849.3	850.6	851.8	853.0	853.2	853.4	853.7	853.8	853.5
147.5°	885.7	886.9	887.7	888.6	889.4	890.2	890.7	891.1	891.5	892.0	891.8
150°	909.4	910.5	911.3	912.1	912.9	913.8	914.3	915.0	915.6	916.2	916.2
152.5°	932.2	933.3	934.4	935.3	936.4	937.3	938.1	938.9	939.6	940.4	940.4
155°	964.1	964.6	965.3	965.9	966.5	967.1	968.1	969.2	970.2	971.2	971.4
157.5°	992.5	992.8	993.2	993.6	994.0	994.3	995.8	997.1	998.5	999.9	1000.1
160°	1010.2	1010.4	1010.7	1010.9	1011.1	1011.3	1012.5	1013.8	1014.9	1016.2	1016.4
162.5°	1025.1	1025.2	1025.4	1025.6	1025.8	1026.0	1027.4	1028.8	1030.2	1031.6	1031.7
165°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1046.8	1048.2	1049.6	1051.1	1051.2
167.5°	1061.8	1061.5	1061.4	1061.4	1061.4	1061.4	1062.8	1064.2	1065.6	1067.1	1067.2
170°	1071.4	1071.0	1070.8	1070.6	1070.4	1070.2	1071.6	1073.0	1074.4	1075.9	1076.0
172.5°	1078.0	1077.6	1077.4	1077.2	1077.0	1076.8	1078.2	1079.7	1081.1	1082.5	1082.6
175°	1086.2	1085.6	1085.2	1084.8	1084.4	1083.9	1085.4	1086.9	1088.3	1089.7	1089.8
177.5°	1090.0	1089.5	1089.2	1088.9	1088.5	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1515.0	1514.1	1514.1	1509.7	1514.1	1514.1	1515.0	1519.9	1521.4	1522.3	1520.4
5°	1405.4	1403.6	1400.6	1403.6	1400.6	1403.6	1405.4	1413.9	1418.2	1422.4	1426.1
7.5°	1297.0	1289.7	1288.6	1281.4	1288.6	1289.7	1297.0	1301.0	1309.5	1319.1	1327.9
10°	1217.8	1213.0	1212.4	1200.8	1212.4	1213.0	1217.8	1228.1	1236.7	1248.2	1260.3
12.5°	1157.6	1146.0	1148.3	1141.5	1148.3	1146.0	1157.6	1157.7	1167.7	1174.8	1193.8
15°	1053.3	1053.3	1050.9	1040.5	1050.9	1053.3	1053.3	1069.7	1072.7	1084.3	1100.7
17.5°	978.4	977.2	971.4	974.2	971.4	977.2	978.4	990.4	992.4	1007.9	1021.4
20°	933.7	930.1	922.8	922.8	922.8	930.1	933.7	940.4	948.2	957.4	968.9
22.5°	891.4	891.2	883.4	885.9	883.4	891.2	891.4	897.6	905.1	915.1	924.7
25°	842.0	837.2	833.5	835.4	833.5	837.2	842.0	842.6	851.1	857.9	863.9
27.5°	795.2	792.5	792.3	787.3	792.3	792.5	795.2	796.8	801.6	805.5	811.2
30°	767.9	761.9	763.1	760.1	763.1	761.9	767.9	768.6	771.0	773.4	780.1
32.5°	736.9	734.7	733.5	730.9	733.5	734.7	736.9	738.0	742.8	745.3	750.5
35°	694.5	695.1	692.1	693.3	692.1	695.1	694.5	695.7	696.3	698.8	703.6
37.5°	657.5	659.4	658.0	658.3	658.0	659.4	657.5	658.1	658.7	659.1	660.5
40°	633.2	633.2	633.2	635.0	633.2	633.2	633.2	631.4	632.0	631.4	631.4
42.5°	609.9	609.0	607.9	607.8	607.9	609.0	609.9	605.6	607.7	605.6	604.7
45°	570.1	571.9	572.5	569.4	572.5	571.9	570.1	568.9	567.0	566.4	565.8
47.5°	534.0	534.2	534.0	536.7	534.0	534.2	534.0	532.4	529.7	528.5	525.6
50°	508.7	507.6	508.7	507.6	508.7	507.6	508.7	505.7	503.9	500.8	498.4
52.5°	482.0	482.3	481.6	481.3	481.6	482.3	482.0	478.0	477.2	476.1	472.2
55°	440.1	441.3	440.8	440.8	440.8	441.3	440.1	437.7	437.1	433.5	429.8
57.5°	396.8	397.9	398.7	396.1	398.7	397.9	396.8	396.4	396.1	392.2	388.3
60°	366.7	369.7	369.1	367.9	369.1	369.7	366.7	367.3	365.4	363.1	360.6
62.5°	339.0	340.1	340.0	339.8	340.0	340.1	339.0	336.2	335.3	333.0	330.5
65°	296.3	297.5	295.6	297.5	295.6	297.5	296.3	294.5	290.2	289.0	286.5
67.5°	250.3	250.6	251.9	252.8	251.9	250.6	250.3	251.0	248.2	245.9	245.4
70°	221.6	221.0	222.8	224.7	222.8	221.0	221.6	220.4	218.6	216.7	214.3
72.5°	191.5	192.8	192.2	193.5	192.2	192.8	191.5	191.7	189.9	187.6	185.1
75°	147.5	149.3	148.8	150.6	148.8	149.3	147.5	148.8	147.5	145.1	142.7
77.5°	106.6	106.9	106.6	107.6	106.6	106.9	106.6	107.6	106.2	107.1	104.3
80°	81.4	80.2	78.9	81.4	78.9	80.2	81.4	81.4	79.5	81.4	79.5
82.5°	56.6	57.3	56.1	56.1	56.1	57.3	56.6	58.1	57.2	58.1	56.2
85°	26.1	25.5	24.3	24.3	24.3	25.5	26.1	26.1	28.0	26.7	26.7
87.5°	11.0	10.5	10.6	10.1	10.6	10.5	11.0	10.9	10.9	12.0	12.1
90°	30.7	30.9	31.1	31.3	31.1	30.9	30.7	30.5	30.6	31.0	31.4
92.5°	29.7	29.7	29.8	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.4
95°	58.3	57.9	57.4	57.0	57.4	57.9	58.3	58.7	58.9	58.9	58.9
97.5°	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
100°	126.7	126.5	126.3	126.0	126.3	126.5	126.7	126.9	127.0	127.0	127.0
102.5°	157.6	157.4	157.2	157.0	157.2	157.4	157.6	157.8	157.8	157.6	157.5
105°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.1	203.7	203.3
107.5°	251.7	250.7	249.8	248.8	249.8	250.7	251.7	252.5	252.9	252.8	252.6
110°	285.3	284.6	284.0	283.4	284.0	284.6	285.3	285.9	286.2	286.2	286.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	317.9	317.4	317.0	316.6	317.0	317.4	317.9	318.4	318.9	319.3	319.8
115°	369.9	369.3	368.7	368.0	368.7	369.3	369.9	370.5	370.9	371.1	371.4
117.5°	419.1	418.4	417.8	417.2	417.8	418.4	419.1	419.7	420.3	420.7	421.2
120°	453.7	453.0	452.4	451.8	452.4	453.0	453.7	454.2	454.6	454.6	454.6
122.5°	487.0	486.6	486.2	485.7	486.2	486.6	487.0	487.5	487.9	488.5	488.9
125°	538.0	537.8	537.6	537.4	537.6	537.8	538.0	538.2	538.6	539.2	539.9
127.5°	586.5	585.8	585.2	584.5	585.2	585.8	586.5	587.1	587.8	588.5	589.3
130°	620.8	620.0	619.2	618.4	619.2	620.0	620.8	621.6	622.3	622.7	623.1
132.5°	652.8	652.0	651.4	650.8	651.4	652.0	652.8	653.4	654.2	655.1	655.9
135°	703.0	702.4	701.8	701.2	701.8	702.4	703.0	703.6	704.0	704.3	704.5
137.5°	749.2	748.5	747.7	746.8	747.7	748.5	749.2	750.1	750.6	750.8	750.9
140°	780.9	780.1	779.3	778.5	779.3	780.1	780.9	781.7	782.1	782.1	782.1
142.5°	809.6	808.8	808.0	807.2	808.0	808.8	809.6	810.5	810.8	810.6	810.5
145°	852.7	851.9	851.0	850.2	851.0	851.9	852.7	853.5	853.8	853.7	853.4
147.5°	891.0	890.3	889.5	888.7	889.5	890.3	891.0	891.8	892.0	891.5	891.1
150°	915.6	915.0	914.3	913.8	914.3	915.0	915.6	916.2	916.2	915.6	915.0
152.5°	939.6	938.9	938.1	937.3	938.1	938.9	939.6	940.4	940.4	939.6	938.9
155°	970.8	970.2	969.6	968.9	969.6	970.2	970.8	971.4	971.2	970.2	969.2
157.5°	999.1	998.1	997.2	996.2	997.2	998.1	999.1	1000.1	999.9	998.5	997.1
160°	1015.6	1014.8	1013.9	1013.1	1013.9	1014.8	1015.6	1016.4	1016.2	1014.9	1013.8
162.5°	1030.8	1029.8	1028.8	1027.9	1028.8	1029.8	1030.8	1031.7	1031.6	1030.2	1028.8
165°	1050.3	1049.2	1048.2	1047.2	1048.2	1049.2	1050.3	1051.2	1051.1	1049.6	1048.2
167.5°	1066.2	1065.1	1064.1	1063.0	1064.1	1065.1	1066.2	1067.2	1067.1	1065.6	1064.2
170°	1074.8	1073.6	1072.3	1071.1	1072.3	1073.6	1074.8	1076.0	1075.9	1074.4	1073.0
172.5°	1081.4	1080.1	1079.0	1077.7	1079.0	1080.1	1081.4	1082.6	1082.5	1081.1	1079.7
175°	1088.6	1087.3	1086.2	1084.9	1086.2	1087.3	1088.6	1089.8	1089.7	1088.3	1086.9
177.5°	1091.2	1090.2	1089.2	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1	1091.2	1090.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1518.0	1523.3	1531.6	1540.3	1545.6	1555.8	1558.8	1563.6	1568.0	1578.2	1588.9
5°	1430.3	1438.8	1458.8	1469.7	1484.9	1502.5	1514.1	1526.2	1539.6	1562.7	1583.9
7.5°	1336.3	1350.5	1375.4	1395.8	1417.5	1442.7	1460.9	1484.9	1504.8	1537.4	1568.4
10°	1273.7	1293.7	1316.2	1340.5	1370.8	1397.5	1423.0	1453.3	1477.7	1516.5	1552.9
12.5°	1217.3	1220.4	1252.5	1279.3	1320.8	1353.8	1383.2	1422.3	1446.0	1492.2	1530.6
15°	1118.9	1137.1	1166.3	1187.5	1236.7	1278.5	1319.8	1360.5	1387.8	1444.9	1495.2
17.5°	1035.9	1052.7	1082.6	1117.4	1152.7	1194.4	1247.8	1290.7	1327.9	1393.1	1452.6
20°	983.5	1004.1	1034.5	1070.3	1101.3	1146.8	1192.9	1242.1	1282.1	1355.7	1425.5
22.5°	938.8	955.1	979.6	1014.9	1048.8	1090.4	1141.0	1194.5	1236.5	1315.8	1386.6
25°	876.0	889.4	905.1	934.3	972.6	1018.1	1057.6	1116.4	1177.7	1251.8	1337.4
27.5°	819.4	828.9	842.9	868.5	898.1	940.7	984.6	1040.5	1102.1	1182.5	1272.8
30°	785.0	791.1	805.0	826.2	855.4	888.7	933.1	986.5	1049.6	1131.0	1220.8
32.5°	754.9	760.4	769.5	789.8	815.1	843.6	883.5	937.0	997.2	1077.1	1176.6
35°	709.7	713.9	721.8	738.2	752.2	780.1	813.5	862.1	918.5	995.1	1098.2
37.5°	664.6	670.5	675.3	682.2	700.2	718.6	747.6	788.6	844.0	921.2	1019.5
40°	635.0	639.8	647.1	650.2	664.8	681.1	704.8	742.4	798.4	868.7	964.6
42.5°	604.9	609.7	614.1	617.7	630.3	644.8	666.0	698.3	747.8	816.3	911.2
45°	564.0	564.6	568.9	575.5	581.6	591.9	607.1	635.0	673.3	737.6	823.8
47.5°	522.4	523.2	523.9	526.8	533.5	542.9	552.9	575.7	609.9	661.2	745.1
50°	494.8	493.5	494.8	497.2	501.5	509.4	520.9	537.3	565.2	613.1	690.2
52.5°	468.1	467.9	467.1	468.1	471.3	476.8	485.0	498.9	523.9	568.0	635.9
55°	427.4	424.4	424.9	422.6	428.0	429.2	435.3	446.8	468.7	499.0	562.8
57.5°	384.0	381.5	378.8	378.1	377.6	380.9	385.7	394.8	411.6	438.2	489.9
60°	356.3	353.3	349.7	348.5	348.5	350.3	352.8	359.4	375.2	398.9	441.3
62.5°	328.2	324.6	322.5	319.3	318.4	320.2	322.6	327.3	338.7	361.0	397.7
65°	284.7	280.5	277.4	276.9	275.6	273.8	275.0	279.9	289.0	306.6	335.7
67.5°	241.1	237.1	236.4	232.9	231.2	231.4	231.2	235.3	240.7	256.0	277.7
70°	212.5	209.5	208.3	205.2	204.0	202.8	201.5	205.2	210.6	223.4	242.2
72.5°	183.3	180.8	178.1	175.5	175.8	174.6	174.4	176.6	181.0	192.8	207.2
75°	141.5	142.0	139.0	136.0	135.4	134.2	134.2	136.0	137.8	146.9	158.4
77.5°	102.6	102.1	99.6	98.6	98.0	96.6	98.0	99.2	100.1	106.2	114.7
80°	78.3	78.3	75.3	75.3	74.7	72.9	74.7	73.4	75.9	82.0	88.0
82.5°	56.0	55.0	54.9	53.9	53.8	52.4	53.3	54.5	55.5	59.7	63.3
85°	27.3	27.3	26.7	26.1	26.7	26.1	26.7	27.3	28.0	29.8	32.8
87.5°	12.2	12.8	12.4	12.0	11.0	10.6	10.4	10.4	10.9	10.9	10.9
90°	31.8	32.2	27.7	23.2	18.7	14.2	10.8	8.3	5.9	3.4	1.0
92.5°	29.3	29.2	28.2	27.2	26.1	25.0	23.6	21.8	20.0	18.1	16.4
95°	58.9	58.9	58.5	58.1	57.7	57.3	56.0	53.9	52.0	49.9	47.8
97.5°	99.0	99.0	98.2	97.4	96.6	95.9	94.6	92.8	91.0	89.2	87.5
100°	127.0	127.0	126.4	125.7	125.2	124.5	123.4	121.8	120.2	118.5	116.8
102.5°	157.3	157.2	156.4	155.6	154.9	154.1	153.0	151.7	150.4	149.1	147.8
105°	202.9	202.4	202.0	201.6	201.2	200.8	200.3	199.7	199.1	198.4	197.8
107.5°	252.5	252.3	252.3	252.3	252.3	252.3	251.8	251.0	250.1	249.1	248.3
110°	286.2	286.2	286.2	286.2	286.2	286.2	285.6	284.3	283.1	281.9	280.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	320.3	320.8	320.9	321.1	321.2	321.5	320.9	319.6	318.5	317.2	316.0
115°	371.5	371.8	372.2	372.6	373.0	373.4	373.0	371.8	370.5	369.3	368.0
117.5°	421.7	422.2	423.3	424.5	425.6	426.7	426.5	424.8	423.3	421.6	419.9
120°	454.6	454.6	456.2	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6
122.5°	489.4	489.9	491.1	492.2	493.4	494.5	494.1	492.1	490.1	488.2	486.2
125°	540.4	541.1	541.7	542.3	542.9	543.5	542.9	541.1	539.2	537.4	535.5
127.5°	590.0	590.7	591.5	592.2	592.9	593.7	592.9	590.6	588.3	585.9	583.6
130°	623.4	623.9	624.3	624.7	625.1	625.5	624.4	621.7	619.1	616.4	613.8
132.5°	656.9	657.7	657.7	657.6	657.5	657.4	656.3	654.1	652.0	649.8	647.6
135°	704.6	704.9	704.5	704.0	703.6	703.2	701.9	699.7	697.4	695.1	692.9
137.5°	751.1	751.2	750.7	750.2	749.6	749.1	747.9	746.1	744.3	742.4	740.5
140°	782.1	782.1	781.2	780.1	779.1	778.1	776.7	774.8	772.9	771.1	769.3
142.5°	810.3	810.2	809.5	808.7	808.0	807.3	806.0	804.2	802.4	800.6	798.8
145°	853.2	853.0	851.8	850.6	849.3	848.1	846.8	845.3	843.9	842.5	841.1
147.5°	890.7	890.2	889.4	888.6	887.7	886.9	885.7	883.9	882.2	880.5	878.8
150°	914.3	913.8	912.9	912.1	911.3	910.5	909.4	908.2	907.0	905.8	904.5
152.5°	938.1	937.3	936.4	935.3	934.4	933.3	932.2	931.1	929.8	928.6	927.3
155°	968.1	967.1	966.5	965.9	965.3	964.6	964.1	963.5	962.8	962.2	961.6
157.5°	995.8	994.3	994.0	993.6	993.2	992.8	992.5	992.0	991.7	991.3	990.9
160°	1012.5	1011.3	1011.1	1010.9	1010.7	1010.4	1010.2	1009.7	1009.3	1008.9	1008.5
162.5°	1027.4	1026.0	1025.8	1025.6	1025.4	1025.2	1025.1	1024.9	1024.8	1024.8	1024.7
165°	1046.8	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.6	1045.8	1046.1	1046.2
167.5°	1062.8	1061.4	1061.4	1061.4	1061.4	1061.5	1061.8	1062.5	1063.0	1063.7	1064.3
170°	1071.6	1070.2	1070.4	1070.6	1070.8	1071.0	1071.4	1072.0	1072.6	1073.2	1073.9
172.5°	1078.2	1076.8	1077.0	1077.2	1077.4	1077.6	1078.0	1078.6	1079.3	1079.9	1080.5
175°	1085.4	1083.9	1084.4	1084.8	1085.2	1085.6	1086.2	1086.7	1087.3	1088.0	1088.6
177.5°	1089.2	1088.2	1088.5	1088.9	1089.2	1089.5	1090.0	1090.4	1090.9	1091.4	1091.9
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1587.9	1590.3	1598.1	1605.9	1614.6	1617.1	1621.0	1617.6	1616.5	1625.8	1632.6
5°	1592.4	1603.3	1624.6	1644.0	1660.4	1671.9	1684.1	1688.9	1698.0	1710.8	1726.6
7.5°	1587.3	1608.5	1642.0	1670.2	1701.1	1723.3	1740.7	1755.5	1773.5	1797.6	1823.9
10°	1581.4	1610.0	1650.7	1685.3	1722.9	1751.4	1775.1	1798.2	1825.0	1858.3	1892.9
12.5°	1570.8	1604.6	1655.5	1696.5	1744.8	1772.8	1804.7	1854.6	1883.2	1929.7	1978.4
15°	1549.3	1586.9	1658.0	1708.3	1763.0	1816.4	1875.3	1922.6	1970.0	1997.3	2065.9
17.5°	1517.3	1572.6	1651.3	1710.1	1779.5	1863.6	1929.8	1983.5	2038.1	2082.4	2116.8
20°	1491.6	1551.7	1641.6	1712.0	1794.5	1885.0	1960.9	2015.5	2062.9	2099.9	2121.1
22.5°	1459.0	1534.7	1622.2	1704.7	1810.1	1899.6	1979.3	2022.4	2061.9	2080.0	2088.1
25°	1407.9	1498.9	1597.8	1698.7	1817.7	1912.3	1985.2	2011.3	2022.8	2005.3	1976.1
27.5°	1352.6	1454.1	1569.8	1687.2	1813.0	1904.1	1956.3	1952.2	1932.6	1875.7	1830.1
30°	1311.3	1423.0	1547.4	1675.5	1801.8	1890.5	1920.8	1890.5	1846.2	1782.4	1717.5
32.5°	1268.1	1383.7	1523.7	1659.1	1781.5	1859.4	1866.0	1813.8	1745.2	1672.7	1591.7
35°	1202.6	1327.7	1478.8	1622.2	1738.1	1787.2	1758.2	1665.9	1584.5	1485.6	1375.1
37.5°	1128.7	1266.8	1418.4	1568.1	1673.2	1686.0	1613.7	1516.5	1401.8	1285.5	1155.4
40°	1073.3	1219.6	1375.7	1526.9	1619.7	1606.4	1514.1	1407.2	1270.7	1128.5	1007.7
42.5°	1023.8	1170.1	1329.0	1477.3	1551.7	1515.0	1407.2	1276.1	1129.3	995.5	884.9
45°	937.9	1088.5	1251.3	1394.5	1437.0	1370.8	1228.1	1082.4	937.9	826.2	738.9
47.5°	854.7	1003.5	1164.7	1290.5	1305.6	1216.6	1060.7	910.8	786.6	695.6	633.9
50°	793.4	942.8	1102.5	1214.8	1209.9	1102.5	942.2	799.5	695.7	622.3	581.0
52.5°	738.6	879.6	1033.0	1135.1	1109.4	992.2	839.2	712.6	627.2	569.8	532.4
55°	653.2	783.8	929.5	1011.4	964.1	834.2	704.8	602.9	539.7	496.6	467.5
57.5°	568.5	690.9	815.6	866.1	813.7	693.8	586.0	512.0	464.5	432.6	413.7
60°	516.0	622.9	734.0	777.7	715.2	608.3	523.3	457.2	418.9	392.8	375.8
62.5°	463.6	559.3	664.0	687.9	630.7	540.3	465.0	410.0	378.6	355.4	339.4
65°	392.2	470.5	550.0	565.8	513.0	443.1	383.7	347.8	320.0	302.9	290.2
67.5°	321.6	384.5	440.8	453.6	407.3	358.9	315.9	284.7	265.8	251.7	240.9
70°	279.9	329.6	375.8	386.1	349.1	305.9	273.2	248.3	231.3	219.2	208.8
72.5°	235.7	277.2	315.5	322.5	292.2	259.4	232.4	212.9	197.8	190.0	180.2
75°	180.3	204.6	234.3	236.1	216.1	196.1	175.5	162.7	154.8	145.1	140.2
77.5°	127.2	146.3	163.3	166.6	154.7	141.1	129.5	119.5	112.8	108.3	103.8
80°	97.1	112.3	119.6	123.8	115.3	105.6	98.9	92.3	88.0	85.0	82.0
82.5°	69.5	78.8	85.6	88.9	84.3	78.4	71.8	68.0	64.7	62.2	61.1
85°	35.2	39.5	43.7	44.9	43.7	41.3	37.6	37.6	35.8	35.2	35.2
87.5°	12.8	15.3	15.8	17.7	17.4	18.3	19.3	19.6	20.0	19.5	18.9
90°	3.4	5.9	8.3	10.8	14.2	18.7	23.2	27.7	32.2	31.8	31.4
92.5°	18.1	20.0	21.8	23.6	25.0	26.1	27.2	28.2	29.2	29.3	29.4
95°	49.9	52.0	53.9	56.0	57.3	57.7	58.1	58.5	58.9	58.9	58.9
97.5°	89.2	91.0	92.8	94.6	95.9	96.6	97.4	98.2	99.0	99.0	99.0
100°	118.5	120.2	121.8	123.4	124.5	125.2	125.7	126.4	127.0	127.0	127.0
102.5°	149.1	150.4	151.7	153.0	154.1	154.9	155.6	156.4	157.2	157.3	157.5
105°	198.4	199.1	199.7	200.3	200.8	201.2	201.6	202.0	202.4	202.9	203.3
107.5°	249.1	250.1	251.0	251.8	252.3	252.3	252.3	252.3	252.3	252.5	252.6
110°	281.9	283.1	284.3	285.6	286.2	286.2	286.2	286.2	286.2	286.2	286.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	317.2	318.5	319.6	320.9	321.5	321.2	321.1	320.9	320.8	320.3	319.8
115°	369.3	370.5	371.8	373.0	373.4	373.0	372.6	372.2	371.8	371.5	371.4
117.5°	421.6	423.3	424.8	426.5	426.7	425.6	424.5	423.3	422.2	421.7	421.2
120°	456.2	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6	454.6	454.6
122.5°	488.2	490.1	492.1	494.1	494.5	493.4	492.2	491.1	489.9	489.4	488.9
125°	537.4	539.2	541.1	542.9	543.5	542.9	542.3	541.7	541.1	540.4	539.9
127.5°	585.9	588.3	590.6	592.9	593.7	592.9	592.2	591.5	590.7	590.0	589.3
130°	616.4	619.1	621.7	624.4	625.5	625.1	624.7	624.3	623.9	623.4	623.1
132.5°	649.8	652.0	654.1	656.3	657.4	657.5	657.6	657.7	657.7	656.9	655.9
135°	695.1	697.4	699.7	701.9	703.2	703.6	704.0	704.5	704.9	704.6	704.5
137.5°	742.4	744.3	746.1	747.9	749.1	749.6	750.2	750.7	751.2	751.1	750.9
140°	771.1	772.9	774.8	776.7	778.1	779.1	780.1	781.2	782.1	782.1	782.1
142.5°	800.6	802.4	804.2	806.0	807.3	808.0	808.7	809.5	810.2	810.3	810.5
145°	842.5	843.9	845.3	846.8	848.1	849.3	850.6	851.8	853.0	853.2	853.4
147.5°	880.5	882.2	883.9	885.7	886.9	887.7	888.6	889.4	890.2	890.7	891.1
150°	905.8	907.0	908.2	909.4	910.5	911.3	912.1	912.9	913.8	914.3	915.0
152.5°	928.6	929.8	931.1	932.2	933.3	934.4	935.3	936.4	937.3	938.1	938.9
155°	962.2	962.8	963.5	964.1	964.6	965.3	965.9	966.5	967.1	968.1	969.2
157.5°	991.3	991.7	992.0	992.5	992.8	993.2	993.6	994.0	994.3	995.8	997.1
160°	1008.9	1009.3	1009.7	1010.2	1010.4	1010.7	1010.9	1011.1	1011.3	1012.5	1013.8
162.5°	1024.8	1024.8	1024.9	1025.1	1025.2	1025.4	1025.6	1025.8	1026.0	1027.4	1028.8
165°	1046.1	1045.8	1045.6	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1046.8	1048.2
167.5°	1063.7	1063.0	1062.5	1061.8	1061.5	1061.4	1061.4	1061.4	1061.4	1062.8	1064.2
170°	1073.2	1072.6	1072.0	1071.4	1071.0	1070.8	1070.6	1070.4	1070.2	1071.6	1073.0
172.5°	1079.9	1079.3	1078.6	1078.0	1077.6	1077.4	1077.2	1077.0	1076.8	1078.2	1079.7
175°	1088.0	1087.3	1086.7	1086.2	1085.6	1085.2	1084.8	1084.4	1083.9	1085.4	1086.9
177.5°	1091.4	1090.9	1090.4	1090.0	1089.5	1089.2	1088.9	1088.5	1088.2	1089.2	1090.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1638.4	1645.2	1645.2	1646.2	1653.9	1653.0	1652.5
5°	1743.6	1753.9	1755.1	1766.0	1773.3	1770.8	1764.2
7.5°	1842.8	1861.9	1876.5	1884.7	1894.3	1900.2	1897.5
10°	1921.4	1949.4	1966.4	1977.9	1991.9	2002.2	1998.5
12.5°	1992.8	2026.1	2049.5	2069.2	2071.0	2084.2	2075.3
15°	2104.2	2139.4	2143.0	2157.6	2169.2	2167.9	2168.5
17.5°	2141.0	2152.3	2154.6	2154.9	2155.1	2150.8	2141.6
20°	2127.9	2123.6	2113.3	2105.4	2091.4	2089.6	2077.5
22.5°	2065.7	2052.2	2026.3	2009.2	1987.5	1981.8	1978.4
25°	1943.3	1913.5	1872.2	1832.8	1821.9	1800.6	1806.7
27.5°	1775.4	1729.0	1684.3	1652.3	1623.3	1591.4	1600.5
30°	1657.3	1605.1	1542.0	1493.4	1462.4	1432.1	1426.6
32.5°	1516.5	1440.0	1369.6	1326.8	1279.4	1260.2	1239.2
35°	1273.7	1199.0	1129.2	1069.1	1034.5	1007.7	983.5
37.5°	1055.3	969.3	912.9	864.3	839.2	823.9	827.8
40°	919.7	844.5	803.2	766.1	743.1	732.1	734.6
42.5°	810.0	753.6	719.6	694.3	678.0	671.9	670.5
45°	685.4	653.9	625.9	611.3	603.5	596.8	592.6
47.5°	600.4	574.6	558.9	550.2	543.4	536.5	536.4
50°	549.4	532.4	521.5	512.4	506.9	502.1	506.3
52.5°	510.6	495.0	484.1	475.9	473.9	469.5	469.4
55°	452.9	440.8	432.8	425.6	421.9	419.5	416.5
57.5°	400.4	388.9	381.6	377.0	370.1	367.7	366.7
60°	363.1	353.9	346.7	340.6	337.5	332.7	332.7
62.5°	328.5	319.5	312.7	308.0	303.1	301.1	301.6
65°	278.7	271.4	264.7	259.8	258.6	255.0	256.2
67.5°	232.7	227.9	220.9	218.2	215.9	214.0	212.5
70°	202.2	197.3	193.7	190.0	188.2	188.2	188.2
72.5°	176.4	170.6	168.4	163.8	164.9	163.0	161.0
75°	136.6	132.9	131.1	129.3	126.3	126.3	126.3
77.5°	100.5	99.4	97.3	95.3	94.6	94.0	94.2
80°	77.7	77.1	75.9	75.9	74.7	74.1	72.9
82.5°	59.7	58.1	57.4	57.0	56.7	56.6	56.3
85°	34.0	32.8	32.8	33.4	32.2	32.2	32.8
87.5°	19.3	19.3	18.7	18.8	19.3	18.9	18.9
90°	31.0	30.6	30.5	30.7	30.9	31.1	31.3
92.5°	29.5	29.6	29.6	29.7	29.7	29.8	29.8
95°	58.9	58.9	58.7	58.3	57.9	57.4	57.0
97.5°	99.0	99.0	99.0	98.9	98.9	98.9	98.9
100°	127.0	127.0	126.9	126.7	126.5	126.3	126.0
102.5°	157.6	157.8	157.8	157.6	157.4	157.2	157.0
105°	203.7	204.1	204.3	204.3	204.3	204.3	204.3
107.5°	252.8	252.9	252.5	251.7	250.7	249.8	248.8
110°	286.2	286.2	285.9	285.3	284.6	284.0	283.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	319.3	318.9	318.4	317.9	317.4	317.0	316.6
115°	371.1	370.9	370.5	369.9	369.3	368.7	368.0
117.5°	420.7	420.3	419.7	419.1	418.4	417.8	417.2
120°	454.6	454.6	454.2	453.7	453.0	452.4	451.8
122.5°	488.5	487.9	487.5	487.0	486.6	486.2	485.7
125°	539.2	538.6	538.2	538.0	537.8	537.6	537.4
127.5°	588.5	587.8	587.1	586.5	585.8	585.2	584.5
130°	622.7	622.3	621.6	620.8	620.0	619.2	618.4
132.5°	655.1	654.2	653.4	652.8	652.0	651.4	650.8
135°	704.3	704.0	703.6	703.0	702.4	701.8	701.2
137.5°	750.8	750.6	750.1	749.2	748.5	747.7	746.8
140°	782.1	782.1	781.7	780.9	780.1	779.3	778.5
142.5°	810.6	810.8	810.5	809.6	808.8	808.0	807.2
145°	853.7	853.8	853.5	852.7	851.9	851.0	850.2
147.5°	891.5	892.0	891.8	891.0	890.3	889.5	888.7
150°	915.6	916.2	916.2	915.6	915.0	914.3	913.8
152.5°	939.6	940.4	940.4	939.6	938.9	938.1	937.3
155°	970.2	971.2	971.4	970.8	970.2	969.6	968.9
157.5°	998.5	999.9	1000.1	999.1	998.1	997.2	996.2
160°	1014.9	1016.2	1016.4	1015.6	1014.8	1013.9	1013.1
162.5°	1030.2	1031.6	1031.7	1030.8	1029.8	1028.8	1027.9
165°	1049.6	1051.1	1051.2	1050.3	1049.2	1048.2	1047.2
167.5°	1065.6	1067.1	1067.2	1066.2	1065.1	1064.1	1063.0
170°	1074.4	1075.9	1076.0	1074.8	1073.6	1072.3	1071.1
172.5°	1081.1	1082.5	1082.6	1081.4	1080.1	1079.0	1077.7
175°	1088.3	1089.7	1089.8	1088.6	1087.3	1086.2	1084.9
177.5°	1091.2	1092.1	1092.1	1091.2	1090.2	1089.2	1088.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4

(END OF REPORT)