

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: P331834-840

Luminaire Tested: **S122RDIW-S865D970U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331834-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D970U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6726.7 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

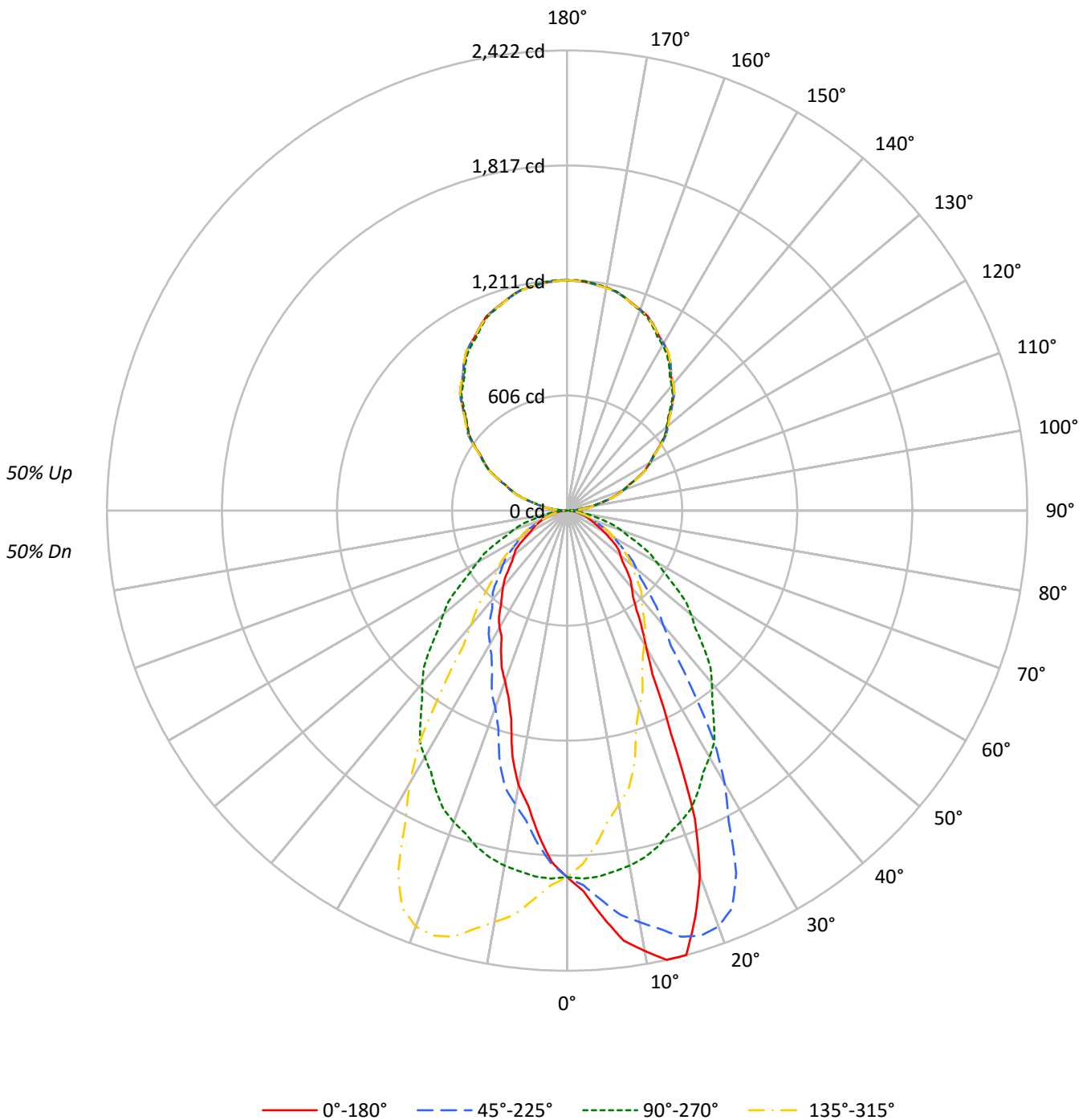
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50									50																			
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	50	49	49	43									43																			
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38									38																			
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33									33																			
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29									29																			
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26									26																			
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23									23																			
7	61	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	23	21									21																			
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19									19																			
9	53	41	34	29	49	38	32	28	34	28	25	29	25	22	25	22	20	17									17																			
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16									16																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	2.7
10°-20°	509.4	7.6
20°-30°	656.4	9.8
30°-40°	623.8	9.3
40°-50°	534.4	7.9
50°-60°	406.9	6.0
60°-70°	257.2	3.8
70°-80°	128.5	1.9
80°-90°	38.3	0.6
90°-100°	76.8	1.1
100°-110°	238.5	3.5
110°-120°	407.7	6.1
120°-130°	536.2	8.0
130°-140°	601.8	8.9
140°-150°	590.1	8.8
150°-160°	494.9	7.4
160°-170°	328.3	4.9
170°-180°	114.7	1.7
0°-30°	1348.5	20.0
0°-40°	1972.3	29.3
0°-60°	2913.6	43.3
0°-90°	3337.6	49.6
90°-120°	723.1	10.7
90°-150°	2451.2	36.4
90°-180°	3389.0	50.4
0°-180°	6726.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	27
90°	35	1	35	1	35	16
95°	63	53	63	53	63	71
105°	227	220	227	220	227	239
115°	409	409	409	409	409	404
125°	597	595	597	595	597	532
135°	779	770	779	770	779	600
145°	945	935	945	935	945	590
155°	1077	1069	1077	1069	1077	496
165°	1164	1163	1164	1163	1164	328
175°	1206	1210	1206	1210	1206	115
180°	1212	1212	1212	1212	1212	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	15.6	16.1	16.0	16.0	15.9	16.0	16.0	16.7	16.2	16.8	15.2
90°	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8	35.3	35.7	30.8
92.5°	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7	32.6	32.5	31.3
95°	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4	65.4	65.4	65.0
97.5°	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1	110.1	110.1	109.2
100°	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2	141.2	141.2	140.5
102.5°	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1	174.9	174.7	173.8
105°	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9	225.5	225.0	224.6
107.5°	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8	280.6	280.4	280.4
110°	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1	318.1	318.1	318.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5	356.0	356.6	356.8
115°	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7	413.0	413.2	413.6
117.5°	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2	468.8	469.3	470.6
120°	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3	505.3	505.3	507.2
122.5°	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5	544.0	544.5	545.8
125°	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1	600.8	601.5	602.1
127.5°	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0	655.8	656.7	657.5
130°	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6	693.1	693.5	694.0
132.5°	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1	730.1	731.1	731.0
135°	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0	783.3	783.5	783.0
137.5°	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7	834.9	835.1	834.5
140°	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4	869.4	869.4	868.3
142.5°	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9	900.7	900.5	899.8
145°	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7	948.4	948.2	946.8
147.5°	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5	990.0	989.5	988.6
150°	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7	1014.8
152.5°	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9	1040.8
155°	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3	1076.1	1075.0	1074.3
157.5°	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4	1106.8	1105.3	1104.9
160°	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8	1125.5	1124.1	1123.9
162.5°	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6	1142.1	1140.4	1140.2
165°	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2	1163.6	1162.0	1162.0
167.5°	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0	1181.3	1179.7	1179.8
170°	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8	1191.1	1189.6	1189.8
172.5°	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1	1198.5	1196.9	1197.2
175°	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1	1206.5	1204.9	1205.4
177.5°	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6	1210.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	14.2	13.8	12.8	11.5	11.5	11.5	13.6	15.8	14.1	13.1	12.5
90°	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0	3.7	6.5	9.2
92.5°	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2	20.2	22.2	24.2
95°	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2	55.4	57.8	60.0
97.5°	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1	99.2	101.2	103.2
100°	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9	131.7	133.5	135.3
102.5°	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3	165.7	167.1	168.6
105°	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9	220.6	221.3	222.0
107.5°	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0	277.0	277.9	278.9
110°	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9	313.4	314.7	316.1



TEST NUMBER: P331834-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2	352.6	354.0	355.4
115°	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1	410.5	411.8	413.2
117.5°	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9	468.7	470.5	472.3
120°	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	507.2	509.0	510.8
122.5°	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5	542.7	544.8	547.0
125°	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3	597.3	599.4	601.5
127.5°	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7	651.3	653.9	656.5
130°	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3	685.2	688.1	691.2
132.5°	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8	722.3	724.7	727.1
135°	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2	772.7	775.2	777.7
137.5°	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1	825.3	827.3	829.3
140°	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1	857.2	859.2	861.2
142.5°	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9	889.9	891.9	893.9
145°	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8	936.4	938.1	939.7
147.5°	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8	978.8	980.7	982.5
150°	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4	1006.8	1008.1	1009.6
152.5°	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9	1032.2	1033.6	1034.9
155°	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8	1069.5	1070.3	1071.0
157.5°	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4	1101.9	1102.3	1102.8
160°	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1	1121.5	1122.0	1122.4
162.5°	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0	1139.1	1139.2	1139.3
165°	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0	1162.8	1162.6	1162.3
167.5°	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1	1182.3	1181.6	1180.9
170°	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7	1193.0	1192.3	1191.6
172.5°	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0	1200.3	1199.6	1199.0
175°	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0	1209.3	1208.7	1208.0
177.5°	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8	1213.2	1212.6	1212.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	12.5	12.8	12.7	13.7	14.7	15.2	15.1	14.4	14.4	14.3	13.7
90°	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8	34.4	33.9	33.8
92.5°	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7	32.8	32.9	32.9
95°	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4	65.4	65.4	65.2
97.5°	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1	110.1	110.1	110.1
100°	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2	141.2	141.2	141.1
102.5°	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1	175.2	175.4	175.4
105°	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9	226.4	226.8	227.1
107.5°	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8	281.0	281.1	280.7
110°	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	317.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5	355.0	354.4	353.9
115°	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7	412.5	412.3	411.8
117.5°	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2	467.7	467.1	466.5
120°	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3	505.3	505.3	504.9
122.5°	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5	542.9	542.4	541.9
125°	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1	599.4	598.7	598.2
127.5°	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0	654.2	653.4	652.6
130°	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6	692.2	691.7	690.9
132.5°	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1	728.1	727.1	726.3
135°	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0	782.8	782.5	782.1
137.5°	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7	834.6	834.4	833.7
140°	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4	869.4	869.4	869.0
142.5°	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9	901.1	901.2	900.9
145°	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7	948.9	949.1	948.8
147.5°	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5	991.0	991.5	991.3
150°	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4
152.5°	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3
155°	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3	1078.4	1079.5	1079.7
157.5°	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4	1109.9	1111.5	1111.7
160°	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8	1128.2	1129.5	1129.8
162.5°	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6	1145.1	1146.7	1146.9
165°	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2	1166.7	1168.3	1168.5
167.5°	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0	1184.6	1186.1	1186.3
170°	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8	1194.4	1196.0	1196.1
172.5°	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1	1201.7	1203.3	1203.5
175°	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1	1209.7	1211.2	1211.4
177.5°	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	13.8	13.3	13.8	13.4	13.8	13.3	13.8	13.7	14.3	14.4	14.4
90°	34.1	34.3	34.5	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8
92.5°	33.0	33.0	33.1	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7
95°	64.7	64.3	63.8	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4
97.5°	110.0	110.0	109.9	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1
100°	140.8	140.6	140.4	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2
102.5°	175.2	174.9	174.7	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1
105°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9
107.5°	279.7	278.6	277.6	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8
110°	317.1	316.4	315.7	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	353.4	352.8	352.3	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5
115°	411.2	410.5	409.8	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7
117.5°	465.9	465.1	464.4	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2
120°	504.2	503.6	502.9	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3
122.5°	541.4	540.9	540.4	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5
125°	598.0	597.8	597.5	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1
127.5°	651.9	651.2	650.5	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0
130°	690.0	689.1	688.2	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6
132.5°	725.6	724.8	724.1	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1
135°	781.4	780.7	780.1	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0
137.5°	832.8	831.9	831.0	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7
140°	868.1	867.2	866.3	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4
142.5°	900.0	899.1	898.2	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9
145°	947.9	947.0	946.0	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7
147.5°	990.5	989.6	988.8	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5
150°	1017.7	1017.0	1016.3	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0
152.5°	1044.5	1043.6	1042.7	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6
155°	1079.1	1078.4	1077.7	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3
157.5°	1110.6	1109.5	1108.4	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4
160°	1128.9	1128.0	1127.1	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8
162.5°	1145.8	1144.7	1143.6	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6
165°	1167.4	1166.3	1165.2	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2
167.5°	1185.2	1184.0	1182.8	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0
170°	1194.7	1193.4	1191.9	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8
172.5°	1202.0	1200.7	1199.3	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1
175°	1210.0	1208.7	1207.3	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1
177.5°	1212.8	1211.8	1210.7	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	15.1	15.2	14.7	13.7	12.7	12.8	12.5	12.5	13.1	14.1	15.8
90°	35.3	35.7	30.8	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0
92.5°	32.6	32.5	31.3	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2
95°	65.4	65.4	65.0	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2
97.5°	110.1	110.1	109.2	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1
100°	141.2	141.2	140.5	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9
102.5°	174.9	174.7	173.8	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3
105°	225.5	225.0	224.6	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9
107.5°	280.6	280.4	280.4	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0
110°	318.1	318.1	318.1	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	356.0	356.6	356.8	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2
115°	413.0	413.2	413.6	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1
117.5°	468.8	469.3	470.6	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9
120°	505.3	505.3	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3
122.5°	544.0	544.5	545.8	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5
125°	600.8	601.5	602.1	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3
127.5°	655.8	656.7	657.5	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7
130°	693.1	693.5	694.0	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3
132.5°	730.1	731.1	731.0	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8
135°	783.3	783.5	783.0	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2
137.5°	834.9	835.1	834.5	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1
140°	869.4	869.4	868.3	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1
142.5°	900.7	900.5	899.8	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9
145°	948.4	948.2	946.8	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8
147.5°	990.0	989.5	988.6	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8
150°	1016.3	1015.7	1014.8	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4
152.5°	1042.7	1041.9	1040.8	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9
155°	1076.1	1075.0	1074.3	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8
157.5°	1106.8	1105.3	1104.9	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4
160°	1125.5	1124.1	1123.9	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1
162.5°	1142.1	1140.4	1140.2	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0
165°	1163.6	1162.0	1162.0	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0
167.5°	1181.3	1179.7	1179.8	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1
170°	1191.1	1189.6	1189.8	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7
172.5°	1198.5	1196.9	1197.2	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0
175°	1206.5	1204.9	1205.4	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0
177.5°	1210.7	1209.6	1210.0	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.6	11.5	11.5	11.5	12.8	13.8	14.2	15.2	16.8	16.2	16.7
90°	3.7	6.5	9.2	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8
92.5°	20.2	22.2	24.2	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7
95°	55.4	57.8	60.0	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4
97.5°	99.2	101.2	103.2	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1
100°	131.7	133.5	135.3	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2
102.5°	165.7	167.1	168.6	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1
105°	220.6	221.3	222.0	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9
107.5°	277.0	277.9	278.9	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8
110°	313.4	314.7	316.1	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.6	354.0	355.4	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5
115°	410.5	411.8	413.2	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7
117.5°	468.7	470.5	472.3	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2
120°	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3
122.5°	542.7	544.8	547.0	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5
125°	597.3	599.4	601.5	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1
127.5°	651.3	653.9	656.5	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0
130°	685.2	688.1	691.2	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6
132.5°	722.3	724.7	727.1	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1
135°	772.7	775.2	777.7	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0
137.5°	825.3	827.3	829.3	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7
140°	857.2	859.2	861.2	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4
142.5°	889.9	891.9	893.9	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9
145°	936.4	938.1	939.7	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7
147.5°	978.8	980.7	982.5	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5
150°	1006.8	1008.1	1009.6	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0
152.5°	1032.2	1033.6	1034.9	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6
155°	1069.5	1070.3	1071.0	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3
157.5°	1101.9	1102.3	1102.8	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4
160°	1121.5	1122.0	1122.4	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8
162.5°	1139.1	1139.2	1139.3	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6
165°	1162.8	1162.6	1162.3	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2
167.5°	1182.3	1181.6	1180.9	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0
170°	1193.0	1192.3	1191.6	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8
172.5°	1200.3	1199.6	1199.0	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1
175°	1209.3	1208.7	1208.0	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1
177.5°	1213.2	1212.6	1212.0	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	16.0	16.0	15.9	16.0	16.0	16.1	15.6
90°	34.4	33.9	33.8	34.1	34.3	34.5	34.7
92.5°	32.8	32.9	32.9	33.0	33.0	33.1	33.1
95°	65.4	65.4	65.2	64.7	64.3	63.8	63.4
97.5°	110.1	110.1	110.1	110.0	110.0	109.9	109.9
100°	141.2	141.2	141.1	140.8	140.6	140.4	140.2
102.5°	175.2	175.4	175.4	175.2	174.9	174.7	174.5
105°	226.4	226.8	227.1	227.1	227.1	227.1	227.1
107.5°	281.0	281.1	280.7	279.7	278.6	277.6	276.6
110°	318.1	318.1	317.8	317.1	316.4	315.7	315.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	355.0	354.4	353.9	353.4	352.8	352.3	351.8
115°	412.5	412.3	411.8	411.2	410.5	409.8	409.1
117.5°	467.7	467.1	466.5	465.9	465.1	464.4	463.7
120°	505.3	505.3	504.9	504.2	503.6	502.9	502.2
122.5°	542.9	542.4	541.9	541.4	540.9	540.4	539.9
125°	599.4	598.7	598.2	598.0	597.8	597.5	597.3
127.5°	654.2	653.4	652.6	651.9	651.2	650.5	649.7
130°	692.2	691.7	690.9	690.0	689.1	688.2	687.3
132.5°	728.1	727.1	726.3	725.6	724.8	724.1	723.4
135°	782.8	782.5	782.1	781.4	780.7	780.1	779.4
137.5°	834.6	834.4	833.7	832.8	831.9	831.0	830.1
140°	869.4	869.4	869.0	868.1	867.2	866.3	865.4
142.5°	901.1	901.2	900.9	900.0	899.1	898.2	897.3
145°	948.9	949.1	948.8	947.9	947.0	946.0	945.1
147.5°	991.0	991.5	991.3	990.5	989.6	988.8	987.8
150°	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7
152.5°	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9
155°	1078.4	1079.5	1079.7	1079.1	1078.4	1077.7	1077.0
157.5°	1109.9	1111.5	1111.7	1110.6	1109.5	1108.4	1107.3
160°	1128.2	1129.5	1129.8	1128.9	1128.0	1127.1	1126.2
162.5°	1145.1	1146.7	1146.9	1145.8	1144.7	1143.6	1142.6
165°	1166.7	1168.3	1168.5	1167.4	1166.3	1165.2	1164.0
167.5°	1184.6	1186.1	1186.3	1185.2	1184.0	1182.8	1181.6
170°	1194.4	1196.0	1196.1	1194.7	1193.4	1191.9	1190.6
172.5°	1201.7	1203.3	1203.5	1202.0	1200.7	1199.3	1198.0
175°	1209.7	1211.2	1211.4	1210.0	1208.7	1207.3	1206.0
177.5°	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0

(END OF REPORT)