

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: P332036-927

Luminaire Tested: **S123DIP-S1000D1195U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332036-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D1195U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7139.4 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

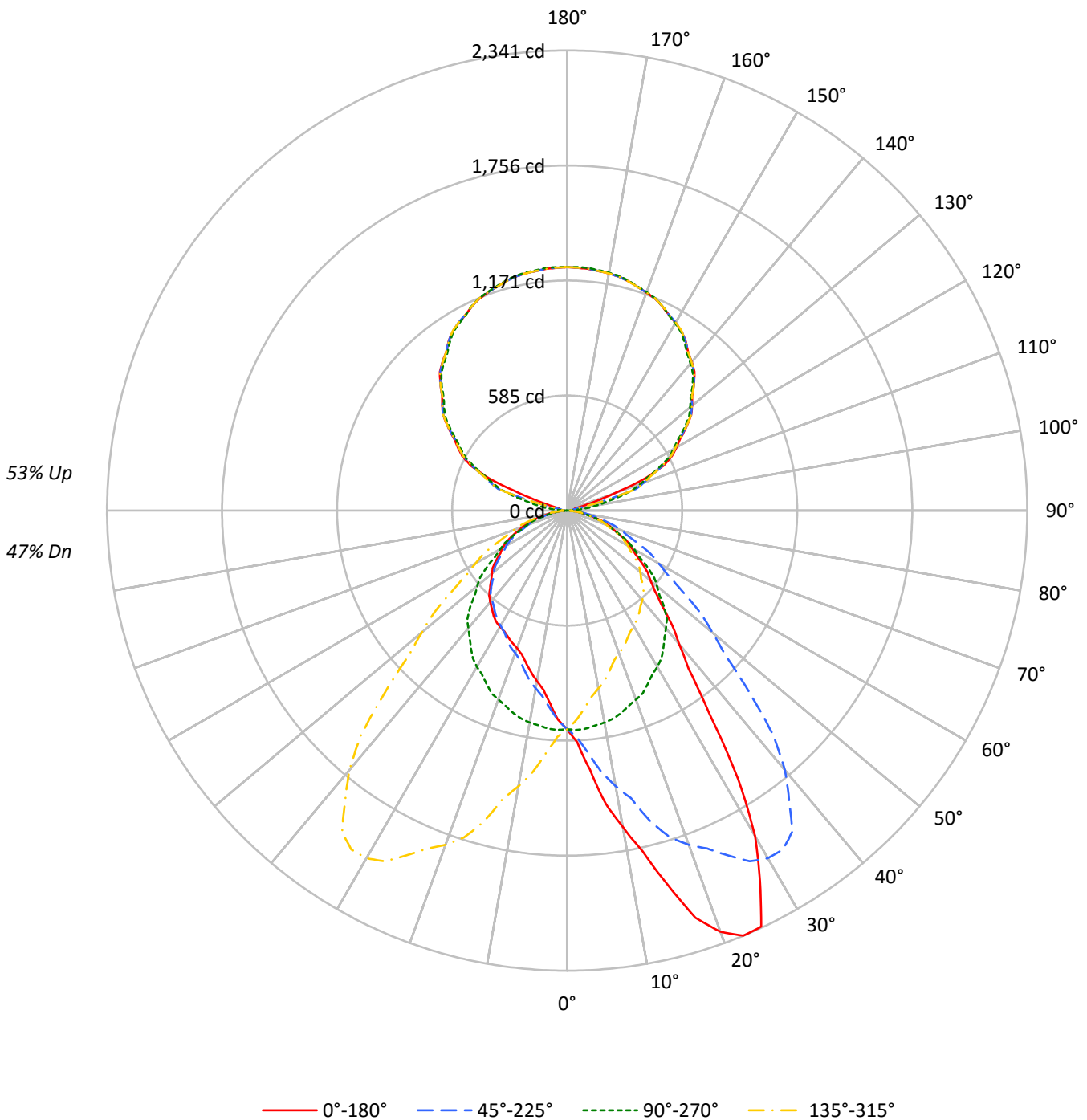
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	40	39	34
3	81	72	65	59	74	66	60	55	56	51	48	46	43	40	38	35	33	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	46	40	45	39	35	37	33	30	30	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11976	11976	11976	11976
5°	14282	12028	10659	12028
10°	17876	11967	9627	11967
15°	21926	11870	8963	11870
20°	26120	11720	8534	11720
25°	27736	11537	8438	11537
30°	23772	11404	8483	11404
35°	16533	11213	8571	11213
40°	12452	10991	8545	10991
45°	10339	10660	8435	10660
50°	9262	9984	8359	9984
55°	8659	9256	8255	9256
60°	8122	8495	8170	8495
65°	7636	7743	7908	7743
70°	7160	6889	7531	6889
75°	6413	6030	6904	6030
80°	5610	4947	5945	4947
85°	4397	3594	3989	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.5
10°-20°	351.5	4.9
20°-30°	589.8	8.3
30°-40°	667.9	9.4
40°-50°	598.9	8.4
50°-60°	483.3	6.8
60°-70°	336.8	4.7
70°-80°	177.0	2.5
80°-90°	46.8	0.7
90°-100°	45.0	0.6
100°-110°	214.7	3.0
110°-120°	515.6	7.2
120°-130°	656.6	9.2
130°-140°	701.5	9.8
140°-150°	656.0	9.2
150°-160°	529.2	7.4
160°-170°	341.5	4.8
170°-180°	117.7	1.6
0°-30°	1050.9	14.7
0°-40°	1718.8	24.1
0°-60°	2801.1	39.2
0°-90°	3361.7	47.1
90°-120°	775.3	10.9
90°-150°	2789.4	39.1
90°-180°	3778.0	52.9
0°-180°	7139.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1113	1113	1113	1113	1113	
5°	1322	1113	986	1113	1322	137
15°	1968	1065	804	1065	1968	568
25°	2335	971	710	971	2335	1024
35°	1258	853	652	853	1258	817
45°	679	700	554	700	679	537
55°	461	493	440	493	461	414
65°	300	304	310	304	300	298
75°	154	145	166	145	154	165
85°	36	29	32	29	36	43
90°	28	1	28	1	28	14
95°	35	56	35	56	35	29
105°	40	274	40	274	40	93
115°	541	514	541	514	541	500
125°	740	725	740	725	740	661
135°	912	903	912	903	912	703
145°	1052	1042	1052	1042	1052	657
155°	1146	1148	1146	1148	1146	528
165°	1208	1210	1208	1210	1208	341
175°	1234	1239	1234	1239	1234	117
180°	1239	1239	1239	1239	1239	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1180.7	1180.0	1177.7	1179.5	1176.1	1171.3	1170.8	1166.6	1154.1	1153.2	1149.8
5°	1321.8	1317.5	1316.9	1316.4	1308.8	1298.6	1279.2	1277.6	1251.7	1238.8	1223.1
7.5°	1504.4	1506.7	1498.8	1491.9	1468.9	1453.7	1432.8	1406.2	1374.4	1342.2	1320.7
10°	1635.5	1653.4	1631.3	1616.1	1602.1	1575.7	1545.0	1506.7	1468.5	1423.7	1389.7
12.5°	1776.2	1784.9	1780.4	1766.2	1744.5	1704.2	1649.8	1607.7	1572.4	1497.9	1467.8
15°	1967.6	2000.5	1979.5	1930.9	1932.1	1893.8	1822.6	1744.5	1703.0	1637.7	1548.8
17.5°	2171.6	2175.7	2166.8	2126.3	2099.4	2046.8	1981.1	1906.1	1822.1	1743.1	1648.8
20°	2280.3	2277.0	2258.2	2237.1	2190.8	2149.8	2078.1	1994.6	1886.7	1809.1	1706.2
22.5°	2340.7	2335.3	2326.3	2308.7	2270.2	2226.2	2161.8	2070.4	1967.9	1860.9	1741.9
25°	2335.3	2342.2	2343.4	2338.5	2325.1	2298.6	2247.9	2175.2	2072.7	1935.3	1811.3
27.5°	2123.9	2133.9	2162.7	2188.2	2216.8	2245.9	2242.0	2205.9	2130.1	2011.4	1859.8
30°	1912.6	1891.1	1944.4	2011.8	2057.6	2138.5	2183.8	2186.5	2143.9	2042.0	1894.3
32.5°	1619.4	1643.1	1666.7	1749.6	1849.7	1940.5	2030.7	2103.2	2111.6	2043.8	1914.5
35°	1258.2	1287.9	1330.9	1374.1	1481.9	1574.6	1733.1	1871.1	1981.1	1995.7	1916.4
37.5°	1013.9	1028.6	1055.8	1099.1	1169.6	1279.5	1402.2	1576.6	1735.9	1854.4	1859.6
40°	886.2	890.6	921.3	954.2	1011.3	1101.8	1212.4	1366.5	1557.4	1722.9	1791.9
42.5°	790.5	799.9	813.0	844.6	890.1	958.2	1061.0	1188.4	1363.3	1553.8	1688.8
45°	679.2	690.0	698.1	719.1	751.5	797.3	869.0	985.4	1118.6	1315.3	1497.0
47.5°	605.7	606.6	612.6	628.4	650.5	684.8	735.5	810.3	932.6	1092.2	1278.7
50°	553.1	561.7	563.9	576.2	593.5	618.9	660.9	724.5	824.8	965.0	1136.4
52.5°	516.0	518.6	524.7	533.6	548.7	568.4	604.8	654.7	733.3	852.8	1010.4
55°	461.4	461.4	467.4	474.4	483.0	500.8	525.1	561.7	621.5	714.3	844.7
57.5°	411.0	413.7	417.9	420.0	427.4	439.1	459.4	487.2	531.9	603.2	706.9
60°	377.3	382.2	381.7	386.0	392.4	401.6	418.8	441.5	481.4	538.5	625.9
62.5°	348.0	347.7	347.6	352.8	359.3	368.0	379.2	398.8	432.7	483.3	557.7
65°	299.8	298.7	302.5	305.6	307.8	314.3	322.9	340.2	362.8	400.5	458.2
67.5°	256.8	253.7	255.7	256.8	260.5	265.5	273.6	284.3	302.3	332.6	376.0
70°	227.5	224.8	224.3	225.3	228.5	232.3	238.3	248.5	265.2	289.5	321.3
72.5°	197.3	195.4	195.4	197.7	199.2	201.7	205.9	215.3	228.5	246.8	276.5
75°	154.2	154.2	154.2	154.7	156.3	158.5	161.7	166.6	176.8	189.7	209.7
77.5°	115.6	115.5	114.8	114.7	117.1	118.0	118.8	123.3	129.0	137.8	152.3
80°	90.5	87.9	89.0	90.5	91.7	92.2	93.8	94.9	99.7	104.6	114.8
82.5°	67.3	65.0	65.2	67.7	67.9	68.4	70.1	71.6	73.4	77.9	83.3
85°	35.6	35.6	36.1	36.1	36.7	36.1	37.7	38.3	38.3	41.0	44.2
87.5°	18.5	17.5	17.9	18.2	17.7	18.0	18.3	18.5	18.8	19.1	19.0
90°	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.7	22.9	22.1	19.4
92.5°	30.6	30.3	30.1	29.8	29.5	28.8	27.5	26.1	24.9	23.5	21.5
95°	34.9	34.9	34.9	34.9	34.9	34.2	32.8	31.4	29.9	28.5	26.3
97.5°	37.9	37.7	37.5	37.3	37.1	36.2	34.5	32.9	31.3	29.6	44.4
100°	38.7	38.4	38.3	38.0	37.9	36.9	35.3	33.7	32.0	30.3	62.3
102.5°	39.4	39.1	38.7	38.3	37.9	40.2	45.3	50.4	55.5	60.5	95.4
105°	40.5	40.1	39.7	39.3	38.9	56.7	92.9	129.1	165.3	201.5	220.0
107.5°	127.2	154.5	181.7	209.1	236.3	263.2	289.8	316.3	342.9	369.5	366.5
110°	253.1	282.3	311.6	340.9	370.1	388.1	394.8	401.6	408.4	415.1	412.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	434.2	440.4	446.6	452.7	458.9	462.0	461.8	461.7	461.6	461.4	459.2
115°	541.1	540.3	539.6	538.7	537.9	536.5	534.4	532.3	530.4	528.3	526.5
117.5°	601.2	601.0	600.9	600.7	600.6	599.6	598.0	596.4	594.7	593.1	592.2
120°	642.4	642.4	642.4	642.4	642.4	641.6	639.9	638.3	636.7	635.0	634.5
122.5°	682.9	682.8	682.5	682.4	682.2	681.6	680.5	679.3	678.2	677.0	676.2
125°	740.0	739.6	739.2	738.7	738.3	737.9	737.5	737.1	736.7	736.3	735.5
127.5°	794.8	795.3	795.7	796.1	796.5	796.3	795.7	795.0	794.4	793.7	792.7
130°	830.2	830.6	831.0	831.4	831.8	831.6	830.8	830.0	829.2	828.3	827.5
132.5°	862.5	863.2	863.7	864.3	864.8	864.7	864.0	863.1	862.3	861.5	860.8
135°	912.1	912.7	913.3	913.9	914.6	914.6	913.9	913.3	912.7	912.1	911.2
137.5°	958.6	959.1	959.5	959.9	960.3	960.0	959.0	958.1	957.0	956.1	955.6
140°	986.7	987.1	987.5	987.9	988.2	988.1	987.2	986.4	985.6	984.8	984.2
142.5°	1012.4	1013.0	1013.5	1014.2	1014.7	1014.6	1014.0	1013.4	1012.7	1012.0	1011.5
145°	1051.9	1051.9	1051.9	1051.9	1051.9	1051.8	1051.4	1051.0	1050.5	1050.1	1049.7
147.5°	1081.4	1082.4	1083.3	1084.3	1085.2	1085.4	1085.1	1084.7	1084.3	1083.8	1083.4
150°	1103.5	1104.1	1104.8	1105.3	1106.0	1106.0	1105.6	1105.3	1104.9	1104.5	1104.1
152.5°	1121.2	1122.1	1123.1	1124.0	1125.0	1125.1	1124.3	1123.6	1122.8	1122.1	1121.9
155°	1145.9	1147.1	1148.3	1149.5	1150.7	1150.9	1149.9	1148.8	1147.8	1146.8	1146.6
157.5°	1166.6	1168.2	1169.8	1171.5	1173.1	1173.2	1172.0	1170.8	1169.6	1168.3	1168.5
160°	1179.9	1181.3	1182.8	1184.2	1185.7	1185.7	1184.5	1183.3	1182.1	1180.8	1181.1
162.5°	1192.4	1193.7	1194.9	1196.2	1197.5	1197.5	1196.0	1194.7	1193.3	1191.8	1192.1
165°	1207.5	1208.9	1210.4	1211.8	1213.2	1213.1	1211.5	1209.9	1208.2	1206.6	1206.8
167.5°	1218.4	1220.0	1221.6	1223.3	1225.0	1225.0	1223.3	1221.6	1220.0	1218.4	1218.4
170°	1225.0	1226.6	1228.3	1229.9	1231.5	1231.5	1229.9	1228.3	1226.6	1225.0	1225.0
172.5°	1228.7	1230.5	1232.3	1234.1	1235.9	1236.0	1234.3	1232.7	1231.1	1229.4	1229.2
175°	1234.2	1235.9	1237.5	1239.1	1240.7	1240.9	1239.4	1238.0	1236.6	1235.1	1234.9
177.5°	1235.9	1237.5	1239.1	1240.8	1242.4	1242.5	1241.3	1239.9	1238.7	1237.3	1237.2
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1147.2	1143.7	1140.3	1134.2	1129.0	1121.7	1119.5	1117.0	1109.2	1102.3	1097.1
5°	1217.2	1204.3	1185.4	1168.2	1154.1	1135.3	1124.5	1113.2	1097.0	1082.4	1070.6
7.5°	1290.5	1265.1	1235.8	1204.0	1174.6	1146.1	1123.1	1102.6	1080.0	1058.5	1041.8
10°	1348.8	1312.1	1271.1	1226.9	1189.2	1152.5	1121.8	1094.9	1065.7	1040.4	1019.4
12.5°	1415.2	1360.8	1304.3	1250.6	1206.0	1155.2	1117.9	1083.6	1050.7	1020.2	996.6
15°	1493.7	1424.7	1358.0	1284.0	1216.2	1152.5	1108.3	1065.2	1026.9	995.7	965.5
17.5°	1565.4	1487.2	1399.1	1309.3	1227.3	1151.9	1090.0	1041.2	993.4	955.1	925.0
20°	1605.9	1516.9	1417.2	1324.0	1233.4	1149.3	1081.4	1023.2	971.4	931.0	897.0
22.5°	1640.8	1536.8	1433.6	1333.9	1233.0	1142.4	1065.4	1005.5	949.4	909.8	873.7
25°	1677.0	1552.5	1449.1	1332.1	1219.4	1125.6	1039.3	971.4	915.4	869.0	831.8
27.5°	1708.1	1551.5	1428.6	1302.8	1198.0	1104.0	1011.9	939.1	879.6	829.2	791.5
30°	1728.8	1553.6	1407.5	1283.0	1177.3	1080.3	990.8	917.5	855.0	803.7	768.2
32.5°	1741.8	1552.3	1388.1	1255.4	1144.5	1058.8	968.0	892.1	827.8	777.4	743.1
35°	1749.3	1542.9	1354.7	1198.3	1091.6	1008.1	932.1	853.3	786.0	739.1	700.3
37.5°	1734.2	1522.9	1315.9	1143.4	1026.5	944.2	880.3	813.3	748.8	697.1	663.7
40°	1710.5	1510.0	1285.7	1104.5	981.7	902.4	848.0	782.2	718.6	669.6	638.3
42.5°	1665.2	1483.6	1252.5	1061.4	935.1	855.8	805.7	750.8	690.5	644.5	613.2
45°	1554.7	1426.4	1202.7	996.7	866.3	784.3	740.1	700.3	645.8	601.0	574.1
47.5°	1401.4	1340.2	1130.7	928.5	794.5	715.7	669.7	637.6	597.9	561.7	535.8
50°	1294.8	1269.6	1081.9	881.9	746.6	669.6	625.3	596.2	567.7	531.6	507.8
52.5°	1172.0	1187.6	1025.0	833.6	697.9	622.1	580.5	557.4	531.4	501.8	481.1
55°	998.9	1055.5	926.7	752.6	625.3	553.1	513.7	493.2	478.2	456.1	438.2
57.5°	836.9	908.9	820.4	669.0	554.1	491.7	454.0	431.7	422.0	410.4	396.4
60°	740.7	811.8	744.5	612.9	506.2	446.9	413.4	394.6	384.9	376.8	365.0
62.5°	654.9	726.9	670.3	556.0	459.1	404.2	375.1	356.6	349.1	344.9	334.8
65°	536.9	598.9	561.2	467.4	391.9	343.4	317.0	304.0	297.1	295.4	288.9
67.5°	437.0	484.2	456.7	387.7	328.3	286.4	264.0	252.9	247.6	247.0	242.2
70°	371.5	415.7	394.6	332.1	280.8	248.0	228.5	218.9	215.6	215.1	212.4
72.5°	320.5	351.3	334.6	282.5	242.9	213.0	198.8	188.7	185.0	185.8	183.9
75°	237.2	260.4	250.6	214.5	182.8	163.3	151.5	145.0	141.8	143.4	141.2
77.5°	170.6	185.4	176.6	151.6	132.0	118.0	109.2	105.2	102.3	102.2	101.2
80°	128.8	137.4	132.6	117.5	101.3	89.5	82.5	79.8	78.2	77.6	77.1
82.5°	91.7	99.1	93.4	83.0	72.0	64.9	60.9	57.4	56.2	56.5	55.9
85°	46.3	49.0	46.9	40.4	36.1	32.9	30.7	29.1	28.0	28.6	27.5
87.5°	19.3	19.2	17.3	15.2	13.9	12.2	11.8	10.5	10.1	10.5	10.5
90°	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0	2.9	5.0	7.1
92.5°	19.6	17.6	15.5	14.8	15.4	16.0	16.6	17.1	16.6	16.0	15.4
95°	24.0	21.8	19.6	22.6	31.0	39.4	47.8	56.2	47.8	39.4	31.0
97.5°	59.1	73.8	88.6	97.8	101.6	105.3	109.1	112.8	109.1	105.3	101.6
100°	94.2	126.1	158.0	171.9	167.8	163.7	159.6	155.5	159.6	163.7	167.8
102.5°	130.2	165.1	199.9	215.9	212.9	210.0	207.1	204.1	207.1	210.0	212.9
105°	238.4	256.7	275.2	283.3	281.0	278.8	276.6	274.3	276.6	278.8	281.0
107.5°	363.6	360.8	357.8	355.5	353.6	351.9	350.1	348.2	350.1	351.9	353.6
110°	410.6	408.4	406.1	404.2	402.5	400.8	399.3	397.6	399.3	400.8	402.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	457.0	454.7	452.5	450.6	449.2	447.7	446.2	444.7	446.2	447.7	449.2
115°	524.6	522.8	520.9	519.4	518.2	516.9	515.7	514.5	515.7	516.9	518.2
117.5°	591.2	590.3	589.3	588.1	586.6	585.0	583.5	582.0	583.5	585.0	586.6
120°	633.8	633.2	632.6	631.4	629.5	627.7	625.8	624.0	625.8	627.7	629.5
122.5°	675.5	674.7	673.9	672.8	671.2	669.7	668.2	666.7	668.2	669.7	671.2
125°	734.7	733.8	733.0	731.8	730.2	728.5	726.9	725.2	726.9	728.5	730.2
127.5°	791.8	790.8	789.8	788.5	786.9	785.2	783.5	782.0	783.5	785.2	786.9
130°	826.7	825.9	825.1	823.8	822.2	820.5	819.0	817.3	819.0	820.5	822.2
132.5°	860.2	859.5	858.8	857.7	856.0	854.4	852.8	851.1	852.8	854.4	856.0
135°	910.5	909.7	908.8	907.8	906.6	905.3	904.1	902.9	904.1	905.3	906.6
137.5°	955.2	954.7	954.3	953.3	951.7	950.1	948.6	947.1	948.6	950.1	951.7
140°	983.6	982.9	982.3	981.4	980.2	979.0	977.7	976.5	977.7	979.0	980.2
142.5°	1010.8	1010.2	1009.6	1008.7	1007.4	1006.2	1005.0	1003.8	1005.0	1006.2	1007.4
145°	1049.3	1048.9	1048.5	1047.6	1046.2	1044.7	1043.3	1041.9	1043.3	1044.7	1046.2
147.5°	1083.0	1082.6	1082.2	1081.5	1080.5	1079.7	1078.7	1077.8	1078.7	1079.7	1080.5
150°	1103.6	1103.2	1102.8	1102.3	1101.7	1101.1	1100.4	1099.9	1100.4	1101.1	1101.7
152.5°	1121.7	1121.3	1121.1	1120.9	1120.5	1120.3	1120.0	1119.7	1120.0	1120.3	1120.5
155°	1146.4	1146.1	1146.0	1146.1	1146.4	1146.8	1147.3	1147.7	1147.3	1146.8	1146.4
157.5°	1168.7	1168.9	1169.1	1169.3	1169.3	1169.3	1169.3	1169.4	1169.3	1169.3	1169.3
160°	1181.2	1181.5	1181.6	1181.9	1182.1	1182.3	1182.5	1182.6	1182.5	1182.3	1182.1
162.5°	1192.3	1192.5	1192.7	1193.0	1193.6	1194.1	1194.7	1195.2	1194.7	1194.1	1193.6
165°	1207.0	1207.2	1207.4	1207.8	1208.5	1209.0	1209.7	1210.3	1209.7	1209.0	1208.5
167.5°	1218.4	1218.4	1218.4	1218.8	1219.6	1220.4	1221.2	1222.1	1221.2	1220.4	1219.6
170°	1225.0	1225.0	1225.0	1225.4	1226.2	1227.1	1227.9	1228.7	1227.9	1227.1	1226.2
172.5°	1229.1	1228.9	1228.8	1229.2	1230.2	1231.1	1232.2	1233.1	1232.2	1231.1	1230.2
175°	1234.7	1234.5	1234.3	1234.7	1235.7	1236.8	1237.8	1238.8	1237.8	1236.8	1235.7
177.5°	1237.0	1236.8	1236.7	1237.0	1237.9	1238.7	1239.4	1240.3	1239.4	1238.7	1237.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1094.1	1091.1	1086.8	1080.3	1075.1	1066.9	1066.9	1068.3	1068.3	1067.8	1066.9
5°	1060.9	1052.8	1043.1	1031.8	1019.9	1008.1	1005.9	1001.6	998.4	996.2	993.5
7.5°	1025.9	1011.5	997.4	981.5	967.1	955.1	946.8	939.9	935.5	930.7	927.3
10°	1002.1	984.4	967.7	950.9	932.6	918.1	908.9	902.4	897.5	893.3	891.1
12.5°	974.1	953.7	935.3	919.4	899.4	884.4	875.7	872.7	867.0	857.9	853.1
15°	933.1	914.3	892.2	867.9	858.2	839.9	829.7	824.8	821.6	814.5	812.4
17.5°	898.1	873.4	848.6	830.5	812.5	797.6	791.9	785.8	781.6	775.9	774.1
20°	870.1	848.0	825.3	805.9	787.0	770.9	766.0	761.7	757.4	754.7	752.6
22.5°	841.6	819.5	800.7	782.6	762.5	751.9	746.6	741.9	738.9	737.0	734.8
25°	801.6	782.2	761.2	745.0	728.8	721.8	718.6	715.9	713.8	711.1	710.5
27.5°	765.8	744.7	727.6	712.6	700.9	695.1	692.0	690.6	691.1	692.1	692.7
30°	739.1	719.7	705.7	692.7	681.9	676.5	676.0	676.0	678.2	678.7	679.8
32.5°	714.5	698.5	684.5	672.0	663.8	660.1	662.2	662.2	663.9	665.4	667.3
35°	678.7	664.6	653.9	643.1	636.1	637.7	638.8	639.8	642.5	645.8	648.0
37.5°	644.5	632.3	621.2	612.7	609.5	612.4	615.0	617.3	620.4	622.8	625.0
40°	620.0	610.8	600.0	592.5	593.5	595.2	597.3	600.0	602.7	604.3	606.5
42.5°	597.1	587.5	579.3	573.1	574.6	576.6	577.9	579.3	582.4	585.3	586.6
45°	562.3	554.7	547.2	543.4	544.5	545.6	546.6	548.3	551.0	553.1	553.7
47.5°	523.1	517.8	512.8	509.1	510.8	510.4	511.8	515.2	516.1	517.4	520.4
50°	498.1	493.2	487.4	486.2	486.2	486.2	486.8	491.1	491.1	493.2	495.4
52.5°	470.5	467.4	463.6	461.7	460.8	460.8	463.0	465.2	466.1	469.1	471.3
55°	429.7	426.4	423.2	421.5	420.5	421.5	425.9	426.9	429.7	431.3	432.8
57.5°	387.1	384.6	382.0	381.1	380.9	382.3	384.7	387.9	388.6	393.6	396.0
60°	359.0	355.2	353.1	353.1	352.0	356.9	355.8	361.2	362.3	365.5	369.2
62.5°	330.1	325.0	324.2	324.2	325.7	327.1	328.6	331.0	333.8	337.9	340.8
65°	283.5	280.8	284.6	284.1	283.0	286.2	286.2	288.9	292.2	296.0	301.9
67.5°	239.5	238.1	238.4	238.4	240.0	241.9	243.4	245.7	249.6	253.6	257.5
70°	209.7	211.4	208.7	210.8	212.4	212.9	214.0	217.2	221.6	224.3	228.5
72.5°	180.8	180.7	181.0	181.9	183.5	184.5	185.5	189.3	193.9	196.2	199.7
75°	139.1	138.6	140.1	140.1	142.8	143.9	145.0	146.6	150.9	154.2	156.9
77.5°	101.6	102.2	101.9	103.7	103.0	103.1	106.5	108.1	108.6	114.9	116.4
80°	76.5	77.6	78.2	78.7	79.2	78.2	81.9	83.6	83.6	87.3	90.0
82.5°	55.0	55.6	57.0	57.6	57.7	58.8	59.1	60.3	61.6	63.2	66.7
85°	27.5	29.1	29.6	29.1	29.6	28.6	30.2	30.7	31.3	31.3	31.3
87.5°	10.5	11.3	11.5	12.4	12.5	13.5	13.6	12.9	13.1	14.6	13.0
90°	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.7	24.6	25.3	26.0
92.5°	14.8	15.5	17.6	19.6	21.5	23.5	24.9	26.1	27.5	28.8	29.5
95°	22.6	19.6	21.8	24.0	26.3	28.5	29.9	31.4	32.8	34.2	34.9
97.5°	97.8	88.6	73.8	59.1	44.4	29.6	31.3	32.9	34.5	36.2	37.1
100°	171.9	158.0	126.1	94.2	62.3	30.3	32.0	33.7	35.3	36.9	37.9
102.5°	215.9	199.9	165.1	130.2	95.4	60.5	55.5	50.4	45.3	40.2	37.9
105°	283.3	275.2	256.7	238.4	220.0	201.5	165.3	129.1	92.9	56.7	38.9
107.5°	355.5	357.8	360.8	363.6	366.5	369.5	342.9	316.3	289.8	263.2	236.3
110°	404.2	406.1	408.4	410.6	412.8	415.1	408.4	401.6	394.8	388.1	370.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	450.6	452.5	454.7	457.0	459.2	461.4	461.6	461.7	461.8	462.0	458.9
115°	519.4	520.9	522.8	524.6	526.5	528.3	530.4	532.3	534.4	536.5	537.9
117.5°	588.1	589.3	590.3	591.2	592.2	593.1	594.7	596.4	598.0	599.6	600.6
120°	631.4	632.6	633.2	633.8	634.5	635.0	636.7	638.3	639.9	641.6	642.4
122.5°	672.8	673.9	674.7	675.5	676.2	677.0	678.2	679.3	680.5	681.6	682.2
125°	731.8	733.0	733.8	734.7	735.5	736.3	736.7	737.1	737.5	737.9	738.3
127.5°	788.5	789.8	790.8	791.8	792.7	793.7	794.4	795.0	795.7	796.3	796.5
130°	823.8	825.1	825.9	826.7	827.5	828.3	829.2	830.0	830.8	831.6	831.8
132.5°	857.7	858.8	859.5	860.2	860.8	861.5	862.3	863.1	864.0	864.7	864.8
135°	907.8	908.8	909.7	910.5	911.2	912.1	912.7	913.3	913.9	914.6	914.6
137.5°	953.3	954.3	954.7	955.2	955.6	956.1	957.0	958.1	959.0	960.0	960.3
140°	981.4	982.3	982.9	983.6	984.2	984.8	985.6	986.4	987.2	988.1	988.2
142.5°	1008.7	1009.6	1010.2	1010.8	1011.5	1012.0	1012.7	1013.4	1014.0	1014.6	1014.7
145°	1047.6	1048.5	1048.9	1049.3	1049.7	1050.1	1050.5	1051.0	1051.4	1051.8	1051.9
147.5°	1081.5	1082.2	1082.6	1083.0	1083.4	1083.8	1084.3	1084.7	1085.1	1085.4	1085.2
150°	1102.3	1102.8	1103.2	1103.6	1104.1	1104.5	1104.9	1105.3	1105.6	1106.0	1106.0
152.5°	1120.9	1121.1	1121.3	1121.7	1121.9	1122.1	1122.8	1123.6	1124.3	1125.1	1125.0
155°	1146.1	1146.0	1146.1	1146.4	1146.6	1146.8	1147.8	1148.8	1149.9	1150.9	1150.7
157.5°	1169.3	1169.1	1168.9	1168.7	1168.5	1168.3	1169.6	1170.8	1172.0	1173.2	1173.1
160°	1181.9	1181.6	1181.5	1181.2	1181.1	1180.8	1182.1	1183.3	1184.5	1185.7	1185.7
162.5°	1193.0	1192.7	1192.5	1192.3	1192.1	1191.8	1193.3	1194.7	1196.0	1197.5	1197.5
165°	1207.8	1207.4	1207.2	1207.0	1206.8	1206.6	1208.2	1209.9	1211.5	1213.1	1213.2
167.5°	1218.8	1218.4	1218.4	1218.4	1218.4	1218.4	1220.0	1221.6	1223.3	1225.0	1225.0
170°	1225.4	1225.0	1225.0	1225.0	1225.0	1225.0	1226.6	1228.3	1229.9	1231.5	1231.5
172.5°	1229.2	1228.8	1228.9	1229.1	1229.2	1229.4	1231.1	1232.7	1234.3	1236.0	1235.9
175°	1234.7	1234.3	1234.5	1234.7	1234.9	1235.1	1236.6	1238.0	1239.4	1240.9	1240.7
177.5°	1237.0	1236.7	1236.8	1237.0	1237.2	1237.3	1238.7	1239.9	1241.3	1242.5	1242.4
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1063.9	1063.5	1066.5	1064.4	1066.5	1063.5	1063.9	1066.9	1067.8	1068.3	1068.3
5°	990.3	991.9	986.5	986.5	986.5	991.9	990.3	993.5	996.2	998.4	1001.6
7.5°	924.7	922.3	922.6	919.6	922.6	922.3	924.7	927.3	930.7	935.5	939.9
10°	884.6	881.4	880.3	880.8	880.3	881.4	884.6	891.1	893.3	897.5	902.4
12.5°	851.4	850.8	843.7	843.8	843.7	850.8	851.4	853.1	857.9	867.0	872.7
15°	812.4	802.2	801.1	804.3	801.1	802.2	812.4	812.4	814.5	821.6	824.8
17.5°	773.2	767.9	768.2	766.6	768.2	767.9	773.2	774.1	775.9	781.6	785.8
20°	752.6	749.3	748.8	745.0	748.8	749.3	752.6	752.6	754.7	757.4	761.7
22.5°	733.6	732.5	732.8	728.6	732.8	732.5	733.6	734.8	737.0	738.9	741.9
25°	710.0	712.6	710.5	710.5	710.5	712.6	710.0	710.5	711.1	713.8	715.9
27.5°	694.0	693.9	692.8	692.8	692.8	693.9	694.0	692.7	692.1	691.1	690.6
30°	681.9	681.4	682.5	682.5	682.5	681.4	681.9	679.8	678.7	678.2	676.0
32.5°	669.9	670.6	670.8	671.2	670.8	670.6	669.9	667.3	665.4	663.9	662.2
35°	651.2	651.7	653.4	652.3	653.4	651.7	651.2	648.0	645.8	642.5	639.8
37.5°	626.0	628.4	627.9	628.8	627.9	628.4	626.0	625.0	622.8	620.4	617.3
40°	607.0	608.6	608.1	608.1	608.1	608.6	607.0	606.5	604.3	602.7	600.0
42.5°	587.6	588.7	587.4	586.5	587.4	588.7	587.6	586.6	585.3	582.4	579.3
45°	555.8	554.7	556.3	554.1	556.3	554.7	555.8	553.7	553.1	551.0	548.3
47.5°	520.2	521.3	521.7	523.3	521.7	521.3	520.2	520.4	517.4	516.1	515.2
50°	496.5	499.7	499.7	499.2	499.7	499.7	496.5	495.4	493.2	491.1	491.1
52.5°	473.2	474.7	476.9	476.7	476.9	474.7	473.2	471.3	469.1	466.1	465.2
55°	437.2	438.2	439.3	439.9	439.3	438.2	437.2	432.8	431.3	429.7	426.9
57.5°	399.9	399.4	402.0	402.8	402.0	399.4	399.9	396.0	393.6	388.6	387.9
60°	373.6	373.6	377.9	379.5	377.9	373.6	373.6	369.2	365.5	362.3	361.2
62.5°	345.5	347.3	351.6	349.4	351.6	347.3	345.5	340.8	337.9	333.8	331.0
65°	304.6	308.9	308.3	310.5	308.3	308.9	304.6	301.9	296.0	292.2	288.9
67.5°	261.7	264.4	268.3	268.7	268.3	264.4	261.7	257.5	253.6	249.6	245.7
70°	232.9	235.6	237.7	239.3	237.7	235.6	232.9	228.5	224.3	221.6	217.2
72.5°	204.9	206.3	211.4	209.1	211.4	206.3	204.9	199.7	196.2	193.9	189.3
75°	160.7	164.4	167.6	166.0	167.6	164.4	160.7	156.9	154.2	150.9	146.6
77.5°	118.8	122.6	124.1	122.7	124.1	122.6	118.8	116.4	114.9	108.6	108.1
80°	93.8	93.2	96.5	95.9	96.5	93.2	93.8	90.0	87.3	83.6	83.6
82.5°	68.8	68.3	69.8	70.1	69.8	68.3	68.8	66.7	63.2	61.6	60.3
85°	33.4	35.0	32.9	32.3	32.9	35.0	33.4	31.3	31.3	31.3	30.7
87.5°	13.1	13.2	12.8	12.4	12.8	13.2	13.1	13.0	14.6	13.1	12.9
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.7
92.5°	29.8	30.1	30.3	30.6	30.3	30.1	29.8	29.5	28.8	27.5	26.1
95°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.2	32.8	31.4
97.5°	37.3	37.5	37.7	37.9	37.7	37.5	37.3	37.1	36.2	34.5	32.9
100°	38.0	38.3	38.4	38.7	38.4	38.3	38.0	37.9	36.9	35.3	33.7
102.5°	38.3	38.7	39.1	39.4	39.1	38.7	38.3	37.9	40.2	45.3	50.4
105°	39.3	39.7	40.1	40.5	40.1	39.7	39.3	38.9	56.7	92.9	129.1
107.5°	209.1	181.7	154.5	127.2	154.5	181.7	209.1	236.3	263.2	289.8	316.3
110°	340.9	311.6	282.3	253.1	282.3	311.6	340.9	370.1	388.1	394.8	401.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	452.7	446.6	440.4	434.2	440.4	446.6	452.7	458.9	462.0	461.8	461.7
115°	538.7	539.6	540.3	541.1	540.3	539.6	538.7	537.9	536.5	534.4	532.3
117.5°	600.7	600.9	601.0	601.2	601.0	600.9	600.7	600.6	599.6	598.0	596.4
120°	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	641.6	639.9	638.3
122.5°	682.4	682.5	682.8	682.9	682.8	682.5	682.4	682.2	681.6	680.5	679.3
125°	738.7	739.2	739.6	740.0	739.6	739.2	738.7	738.3	737.9	737.5	737.1
127.5°	796.1	795.7	795.3	794.8	795.3	795.7	796.1	796.5	796.3	795.7	795.0
130°	831.4	831.0	830.6	830.2	830.6	831.0	831.4	831.8	831.6	830.8	830.0
132.5°	864.3	863.7	863.2	862.5	863.2	863.7	864.3	864.8	864.7	864.0	863.1
135°	913.9	913.3	912.7	912.1	912.7	913.3	913.9	914.6	914.6	913.9	913.3
137.5°	959.9	959.5	959.1	958.6	959.1	959.5	959.9	960.3	960.0	959.0	958.1
140°	987.9	987.5	987.1	986.7	987.1	987.5	987.9	988.2	988.1	987.2	986.4
142.5°	1014.2	1013.5	1013.0	1012.4	1013.0	1013.5	1014.2	1014.7	1014.6	1014.0	1013.4
145°	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.8	1051.4	1051.0
147.5°	1084.3	1083.3	1082.4	1081.4	1082.4	1083.3	1084.3	1085.2	1085.4	1085.1	1084.7
150°	1105.3	1104.8	1104.1	1103.5	1104.1	1104.8	1105.3	1106.0	1106.0	1105.6	1105.3
152.5°	1124.0	1123.1	1122.1	1121.2	1122.1	1123.1	1124.0	1125.0	1125.1	1124.3	1123.6
155°	1149.5	1148.3	1147.1	1145.9	1147.1	1148.3	1149.5	1150.7	1150.9	1149.9	1148.8
157.5°	1171.5	1169.8	1168.2	1166.6	1168.2	1169.8	1171.5	1173.1	1173.2	1172.0	1170.8
160°	1184.2	1182.8	1181.3	1179.9	1181.3	1182.8	1184.2	1185.7	1185.7	1184.5	1183.3
162.5°	1196.2	1194.9	1193.7	1192.4	1193.7	1194.9	1196.2	1197.5	1197.5	1196.0	1194.7
165°	1211.8	1210.4	1208.9	1207.5	1208.9	1210.4	1211.8	1213.2	1213.1	1211.5	1209.9
167.5°	1223.3	1221.6	1220.0	1218.4	1220.0	1221.6	1223.3	1225.0	1225.0	1223.3	1221.6
170°	1229.9	1228.3	1226.6	1225.0	1226.6	1228.3	1229.9	1231.5	1231.5	1229.9	1228.3
172.5°	1234.1	1232.3	1230.5	1228.7	1230.5	1232.3	1234.1	1235.9	1236.0	1234.3	1232.7
175°	1239.1	1237.5	1235.9	1234.2	1235.9	1237.5	1239.1	1240.7	1240.9	1239.4	1238.0
177.5°	1240.8	1239.1	1237.5	1235.9	1237.5	1239.1	1240.8	1242.4	1242.5	1241.3	1239.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



TEST NUMBER: P332036-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1066.9	1066.9	1075.1	1080.3	1086.8	1091.1	1094.1	1097.1	1102.3	1109.2	1117.0
5°	1005.9	1008.1	1019.9	1031.8	1043.1	1052.8	1060.9	1070.6	1082.4	1097.0	1113.2
7.5°	946.8	955.1	967.1	981.5	997.4	1011.5	1025.9	1041.8	1058.5	1080.0	1102.6
10°	908.9	918.1	932.6	950.9	967.7	984.4	1002.1	1019.4	1040.4	1065.7	1094.9
12.5°	875.7	884.4	899.4	919.4	935.3	953.7	974.1	996.6	1020.2	1050.7	1083.6
15°	829.7	839.9	858.2	867.9	892.2	914.3	933.1	965.5	995.7	1026.9	1065.2
17.5°	791.9	797.6	812.5	830.5	848.6	873.4	898.1	925.0	955.1	993.4	1041.2
20°	766.0	770.9	787.0	805.9	825.3	848.0	870.1	897.0	931.0	971.4	1023.2
22.5°	746.6	751.9	762.5	782.6	800.7	819.5	841.6	873.7	909.8	949.4	1005.5
25°	718.6	721.8	728.8	745.0	761.2	782.2	801.6	831.8	869.0	915.4	971.4
27.5°	692.0	695.1	700.9	712.6	727.6	744.7	765.8	791.5	829.2	879.6	939.1
30°	676.0	676.5	681.9	692.7	705.7	719.7	739.1	768.2	803.7	855.0	917.5
32.5°	662.2	660.1	663.8	672.0	684.5	698.5	714.5	743.1	777.4	827.8	892.1
35°	638.8	637.7	636.1	643.1	653.9	664.6	678.7	700.3	739.1	786.0	853.3
37.5°	615.0	612.4	609.5	612.7	621.2	632.3	644.5	663.7	697.1	748.8	813.3
40°	597.3	595.2	593.5	592.5	600.0	610.8	620.0	638.3	669.6	718.6	782.2
42.5°	577.9	576.6	574.6	573.1	579.3	587.5	597.1	613.2	644.5	690.5	750.8
45°	546.6	545.6	544.5	543.4	547.2	554.7	562.3	574.1	601.0	645.8	700.3
47.5°	511.8	510.4	510.8	509.1	512.8	517.8	523.1	535.8	561.7	597.9	637.6
50°	486.8	486.2	486.2	486.2	487.4	493.2	498.1	507.8	531.6	567.7	596.2
52.5°	463.0	460.8	460.8	461.7	463.6	467.4	470.5	481.1	501.8	531.4	557.4
55°	425.9	421.5	420.5	421.5	423.2	426.4	429.7	438.2	456.1	478.2	493.2
57.5°	384.7	382.3	380.9	381.1	382.0	384.6	387.1	396.4	410.4	422.0	431.7
60°	355.8	356.9	352.0	353.1	353.1	355.2	359.0	365.0	376.8	384.9	394.6
62.5°	328.6	327.1	325.7	324.2	324.2	325.0	330.1	334.8	344.9	349.1	356.6
65°	286.2	286.2	283.0	284.1	284.6	280.8	283.5	288.9	295.4	297.1	304.0
67.5°	243.4	241.9	240.0	238.4	238.4	238.1	239.5	242.2	247.0	247.6	252.9
70°	214.0	212.9	212.4	210.8	208.7	211.4	209.7	212.4	215.1	215.6	218.9
72.5°	185.5	184.5	183.5	181.9	181.0	180.7	180.8	183.9	185.8	185.0	188.7
75°	145.0	143.9	142.8	140.1	140.1	138.6	139.1	141.2	143.4	141.8	145.0
77.5°	106.5	103.1	103.0	103.7	101.9	102.2	101.6	101.2	102.2	102.3	105.2
80°	81.9	78.2	79.2	78.7	78.2	77.6	76.5	77.1	77.6	78.2	79.8
82.5°	59.1	58.8	57.7	57.6	57.0	55.6	55.0	55.9	56.5	56.2	57.4
85°	30.2	28.6	29.6	29.1	29.6	29.1	27.5	27.5	28.6	28.0	29.1
87.5°	13.6	13.5	12.5	12.4	11.5	11.3	10.5	10.5	10.5	10.1	10.5
90°	22.9	22.1	19.4	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0
92.5°	24.9	23.5	21.5	19.6	17.6	15.5	14.8	15.4	16.0	16.6	17.1
95°	29.9	28.5	26.3	24.0	21.8	19.6	22.6	31.0	39.4	47.8	56.2
97.5°	31.3	29.6	44.4	59.1	73.8	88.6	97.8	101.6	105.3	109.1	112.8
100°	32.0	30.3	62.3	94.2	126.1	158.0	171.9	167.8	163.7	159.6	155.5
102.5°	55.5	60.5	95.4	130.2	165.1	199.9	215.9	212.9	210.0	207.1	204.1
105°	165.3	201.5	220.0	238.4	256.7	275.2	283.3	281.0	278.8	276.6	274.3
107.5°	342.9	369.5	366.5	363.6	360.8	357.8	355.5	353.6	351.9	350.1	348.2
110°	408.4	415.1	412.8	410.6	408.4	406.1	404.2	402.5	400.8	399.3	397.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	461.6	461.4	459.2	457.0	454.7	452.5	450.6	449.2	447.7	446.2	444.7
115°	530.4	528.3	526.5	524.6	522.8	520.9	519.4	518.2	516.9	515.7	514.5
117.5°	594.7	593.1	592.2	591.2	590.3	589.3	588.1	586.6	585.0	583.5	582.0
120°	636.7	635.0	634.5	633.8	633.2	632.6	631.4	629.5	627.7	625.8	624.0
122.5°	678.2	677.0	676.2	675.5	674.7	673.9	672.8	671.2	669.7	668.2	666.7
125°	736.7	736.3	735.5	734.7	733.8	733.0	731.8	730.2	728.5	726.9	725.2
127.5°	794.4	793.7	792.7	791.8	790.8	789.8	788.5	786.9	785.2	783.5	782.0
130°	829.2	828.3	827.5	826.7	825.9	825.1	823.8	822.2	820.5	819.0	817.3
132.5°	862.3	861.5	860.8	860.2	859.5	858.8	857.7	856.0	854.4	852.8	851.1
135°	912.7	912.1	911.2	910.5	909.7	908.8	907.8	906.6	905.3	904.1	902.9
137.5°	957.0	956.1	955.6	955.2	954.7	954.3	953.3	951.7	950.1	948.6	947.1
140°	985.6	984.8	984.2	983.6	982.9	982.3	981.4	980.2	979.0	977.7	976.5
142.5°	1012.7	1012.0	1011.5	1010.8	1010.2	1009.6	1008.7	1007.4	1006.2	1005.0	1003.8
145°	1050.5	1050.1	1049.7	1049.3	1048.9	1048.5	1047.6	1046.2	1044.7	1043.3	1041.9
147.5°	1084.3	1083.8	1083.4	1083.0	1082.6	1082.2	1081.5	1080.5	1079.7	1078.7	1077.8
150°	1104.9	1104.5	1104.1	1103.6	1103.2	1102.8	1102.3	1101.7	1101.1	1100.4	1099.9
152.5°	1122.8	1122.1	1121.9	1121.7	1121.3	1121.1	1120.9	1120.5	1120.3	1120.0	1119.7
155°	1147.8	1146.8	1146.6	1146.4	1146.1	1146.0	1146.1	1146.4	1146.8	1147.3	1147.7
157.5°	1169.6	1168.3	1168.5	1168.7	1168.9	1169.1	1169.3	1169.3	1169.3	1169.3	1169.4
160°	1182.1	1180.8	1181.1	1181.2	1181.5	1181.6	1181.9	1182.1	1182.3	1182.5	1182.6
162.5°	1193.3	1191.8	1192.1	1192.3	1192.5	1192.7	1193.0	1193.6	1194.1	1194.7	1195.2
165°	1208.2	1206.6	1206.8	1207.0	1207.2	1207.4	1207.8	1208.5	1209.0	1209.7	1210.3
167.5°	1220.0	1218.4	1218.4	1218.4	1218.4	1218.4	1218.8	1219.6	1220.4	1221.2	1222.1
170°	1226.6	1225.0	1225.0	1225.0	1225.0	1225.0	1225.4	1226.2	1227.1	1227.9	1228.7
172.5°	1231.1	1229.4	1229.2	1229.1	1228.9	1228.8	1229.2	1230.2	1231.1	1232.2	1233.1
175°	1236.6	1235.1	1234.9	1234.7	1234.5	1234.3	1234.7	1235.7	1236.8	1237.8	1238.8
177.5°	1238.7	1237.3	1237.2	1237.0	1236.8	1236.7	1237.0	1237.9	1238.7	1239.4	1240.3
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1119.5	1121.7	1129.0	1134.2	1140.3	1143.7	1147.2	1149.8	1153.2	1154.1	1166.6
5°	1124.5	1135.3	1154.1	1168.2	1185.4	1204.3	1217.2	1223.1	1238.8	1251.7	1277.6
7.5°	1123.1	1146.1	1174.6	1204.0	1235.8	1265.1	1290.5	1320.7	1342.2	1374.4	1406.2
10°	1121.8	1152.5	1189.2	1226.9	1271.1	1312.1	1348.8	1389.7	1423.7	1468.5	1506.7
12.5°	1117.9	1155.2	1206.0	1250.6	1304.3	1360.8	1415.2	1467.8	1497.9	1572.4	1607.7
15°	1108.3	1152.5	1216.2	1284.0	1358.0	1424.7	1493.7	1548.8	1637.7	1703.0	1744.5
17.5°	1090.0	1151.9	1227.3	1309.3	1399.1	1487.2	1565.4	1648.8	1743.1	1822.1	1906.1
20°	1081.4	1149.3	1233.4	1324.0	1417.2	1516.9	1605.9	1706.2	1809.1	1886.7	1994.6
22.5°	1065.4	1142.4	1233.0	1333.9	1433.6	1536.8	1640.8	1741.9	1860.9	1967.9	2070.4
25°	1039.3	1125.6	1219.4	1332.1	1449.1	1552.5	1677.0	1811.3	1935.3	2072.7	2175.2
27.5°	1011.9	1104.0	1198.0	1302.8	1428.6	1551.5	1708.1	1859.8	2011.4	2130.1	2205.9
30°	990.8	1080.3	1177.3	1283.0	1407.5	1553.6	1728.8	1894.3	2042.0	2143.9	2186.5
32.5°	968.0	1058.8	1144.5	1255.4	1388.1	1552.3	1741.8	1914.5	2043.8	2111.6	2103.2
35°	932.1	1008.1	1091.6	1198.3	1354.7	1542.9	1749.3	1916.4	1995.7	1981.1	1871.1
37.5°	880.3	944.2	1026.5	1143.4	1315.9	1522.9	1734.2	1859.6	1854.4	1735.9	1576.6
40°	848.0	902.4	981.7	1104.5	1285.7	1510.0	1710.5	1791.9	1722.9	1557.4	1366.5
42.5°	805.7	855.8	935.1	1061.4	1252.5	1483.6	1665.2	1688.8	1553.8	1363.3	1188.4
45°	740.1	784.3	866.3	996.7	1202.7	1426.4	1554.7	1497.0	1315.3	1118.6	985.4
47.5°	669.7	715.7	794.5	928.5	1130.7	1340.2	1401.4	1278.7	1092.2	932.6	810.3
50°	625.3	669.6	746.6	881.9	1081.9	1269.6	1294.8	1136.4	965.0	824.8	724.5
52.5°	580.5	622.1	697.9	833.6	1025.0	1187.6	1172.0	1010.4	852.8	733.3	654.7
55°	513.7	553.1	625.3	752.6	926.7	1055.5	998.9	844.7	714.3	621.5	561.7
57.5°	454.0	491.7	554.1	669.0	820.4	908.9	836.9	706.9	603.2	531.9	487.2
60°	413.4	446.9	506.2	612.9	744.5	811.8	740.7	625.9	538.5	481.4	441.5
62.5°	375.1	404.2	459.1	556.0	670.3	726.9	654.9	557.7	483.3	432.7	398.8
65°	317.0	343.4	391.9	467.4	561.2	598.9	536.9	458.2	400.5	362.8	340.2
67.5°	264.0	286.4	328.3	387.7	456.7	484.2	437.0	376.0	332.6	302.3	284.3
70°	228.5	248.0	280.8	332.1	394.6	415.7	371.5	321.3	289.5	265.2	248.5
72.5°	198.8	213.0	242.9	282.5	334.6	351.3	320.5	276.5	246.8	228.5	215.3
75°	151.5	163.3	182.8	214.5	250.6	260.4	237.2	209.7	189.7	176.8	166.6
77.5°	109.2	118.0	132.0	151.6	176.6	185.4	170.6	152.3	137.8	129.0	123.3
80°	82.5	89.5	101.3	117.5	132.6	137.4	128.8	114.8	104.6	99.7	94.9
82.5°	60.9	64.9	72.0	83.0	93.4	99.1	91.7	83.3	77.9	73.4	71.6
85°	30.7	32.9	36.1	40.4	46.9	49.0	46.3	44.2	41.0	38.3	38.3
87.5°	11.8	12.2	13.9	15.2	17.3	19.2	19.3	19.0	19.1	18.8	18.5
90°	2.9	5.0	7.1	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.7
92.5°	16.6	16.0	15.4	14.8	15.5	17.6	19.6	21.5	23.5	24.9	26.1
95°	47.8	39.4	31.0	22.6	19.6	21.8	24.0	26.3	28.5	29.9	31.4
97.5°	109.1	105.3	101.6	97.8	88.6	73.8	59.1	44.4	29.6	31.3	32.9
100°	159.6	163.7	167.8	171.9	158.0	126.1	94.2	62.3	30.3	32.0	33.7
102.5°	207.1	210.0	212.9	215.9	199.9	165.1	130.2	95.4	60.5	55.5	50.4
105°	276.6	278.8	281.0	283.3	275.2	256.7	238.4	220.0	201.5	165.3	129.1
107.5°	350.1	351.9	353.6	355.5	357.8	360.8	363.6	366.5	369.5	342.9	316.3
110°	399.3	400.8	402.5	404.2	406.1	408.4	410.6	412.8	415.1	408.4	401.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	446.2	447.7	449.2	450.6	452.5	454.7	457.0	459.2	461.4	461.6	461.7
115°	515.7	516.9	518.2	519.4	520.9	522.8	524.6	526.5	528.3	530.4	532.3
117.5°	583.5	585.0	586.6	588.1	589.3	590.3	591.2	592.2	593.1	594.7	596.4
120°	625.8	627.7	629.5	631.4	632.6	633.2	633.8	634.5	635.0	636.7	638.3
122.5°	668.2	669.7	671.2	672.8	673.9	674.7	675.5	676.2	677.0	678.2	679.3
125°	726.9	728.5	730.2	731.8	733.0	733.8	734.7	735.5	736.3	736.7	737.1
127.5°	783.5	785.2	786.9	788.5	789.8	790.8	791.8	792.7	793.7	794.4	795.0
130°	819.0	820.5	822.2	823.8	825.1	825.9	826.7	827.5	828.3	829.2	830.0
132.5°	852.8	854.4	856.0	857.7	858.8	859.5	860.2	860.8	861.5	862.3	863.1
135°	904.1	905.3	906.6	907.8	908.8	909.7	910.5	911.2	912.1	912.7	913.3
137.5°	948.6	950.1	951.7	953.3	954.3	954.7	955.2	955.6	956.1	957.0	958.1
140°	977.7	979.0	980.2	981.4	982.3	982.9	983.6	984.2	984.8	985.6	986.4
142.5°	1005.0	1006.2	1007.4	1008.7	1009.6	1010.2	1010.8	1011.5	1012.0	1012.7	1013.4
145°	1043.3	1044.7	1046.2	1047.6	1048.5	1048.9	1049.3	1049.7	1050.1	1050.5	1051.0
147.5°	1078.7	1079.7	1080.5	1081.5	1082.2	1082.6	1083.0	1083.4	1083.8	1084.3	1084.7
150°	1100.4	1101.1	1101.7	1102.3	1102.8	1103.2	1103.6	1104.1	1104.5	1104.9	1105.3
152.5°	1120.0	1120.3	1120.5	1120.9	1121.1	1121.3	1121.7	1121.9	1122.1	1122.8	1123.6
155°	1147.3	1146.8	1146.4	1146.1	1146.0	1146.1	1146.4	1146.6	1146.8	1147.8	1148.8
157.5°	1169.3	1169.3	1169.3	1169.3	1169.1	1168.9	1168.7	1168.5	1168.3	1169.6	1170.8
160°	1182.5	1182.3	1182.1	1181.9	1181.6	1181.5	1181.2	1181.1	1180.8	1182.1	1183.3
162.5°	1194.7	1194.1	1193.6	1193.0	1192.7	1192.5	1192.3	1192.1	1191.8	1193.3	1194.7
165°	1209.7	1209.0	1208.5	1207.8	1207.4	1207.2	1207.0	1206.8	1206.6	1208.2	1209.9
167.5°	1221.2	1220.4	1219.6	1218.8	1218.4	1218.4	1218.4	1218.4	1218.4	1220.0	1221.6
170°	1227.9	1227.1	1226.2	1225.4	1225.0	1225.0	1225.0	1225.0	1225.0	1226.6	1228.3
172.5°	1232.2	1231.1	1230.2	1229.2	1228.8	1228.9	1229.1	1229.2	1229.4	1231.1	1232.7
175°	1237.8	1236.8	1235.7	1234.7	1234.3	1234.5	1234.7	1234.9	1235.1	1236.6	1238.0
177.5°	1239.4	1238.7	1237.9	1237.0	1236.7	1236.8	1237.0	1237.2	1237.3	1238.7	1239.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1170.8	1171.3	1176.1	1179.5	1177.7	1180.0	1180.7
5°	1279.2	1298.6	1308.8	1316.4	1316.9	1317.5	1321.8
7.5°	1432.8	1453.7	1468.9	1491.9	1498.8	1506.7	1504.4
10°	1545.0	1575.7	1602.1	1616.1	1631.3	1653.4	1635.5
12.5°	1649.8	1704.2	1744.5	1766.2	1780.4	1784.9	1776.2
15°	1822.6	1893.8	1932.1	1930.9	1979.5	2000.5	1967.6
17.5°	1981.1	2046.8	2099.4	2126.3	2166.8	2175.7	2171.6
20°	2078.1	2149.8	2190.8	2237.1	2258.2	2277.0	2280.3
22.5°	2161.8	2226.2	2270.2	2308.7	2326.3	2335.3	2340.7
25°	2247.9	2298.6	2325.1	2338.5	2343.4	2342.2	2335.3
27.5°	2242.0	2245.9	2216.8	2188.2	2162.7	2133.9	2123.9
30°	2183.8	2138.5	2057.6	2011.8	1944.4	1891.1	1912.6
32.5°	2030.7	1940.5	1849.7	1749.6	1666.7	1643.1	1619.4
35°	1733.1	1574.6	1481.9	1374.1	1330.9	1287.9	1258.2
37.5°	1402.2	1279.5	1169.6	1099.1	1055.8	1028.6	1013.9
40°	1212.4	1101.8	1011.3	954.2	921.3	890.6	886.2
42.5°	1061.0	958.2	890.1	844.6	813.0	799.9	790.5
45°	869.0	797.3	751.5	719.1	698.1	690.0	679.2
47.5°	735.5	684.8	650.5	628.4	612.6	606.6	605.7
50°	660.9	618.9	593.5	576.2	563.9	561.7	553.1
52.5°	604.8	568.4	548.7	533.6	524.7	518.6	516.0
55°	525.1	500.8	483.0	474.4	467.4	461.4	461.4
57.5°	459.4	439.1	427.4	420.0	417.9	413.7	411.0
60°	418.8	401.6	392.4	386.0	381.7	382.2	377.3
62.5°	379.2	368.0	359.3	352.8	347.6	347.7	348.0
65°	322.9	314.3	307.8	305.6	302.5	298.7	299.8
67.5°	273.6	265.5	260.5	256.8	255.7	253.7	256.8
70°	238.3	232.3	228.5	225.3	224.3	224.8	227.5
72.5°	205.9	201.7	199.2	197.7	195.4	195.4	197.3
75°	161.7	158.5	156.3	154.7	154.2	154.2	154.2
77.5°	118.8	118.0	117.1	114.7	114.8	115.5	115.6
80°	93.8	92.2	91.7	90.5	89.0	87.9	90.5
82.5°	70.1	68.4	67.9	67.7	65.2	65.0	67.3
85°	37.7	36.1	36.7	36.1	36.1	35.6	35.6
87.5°	18.3	18.0	17.7	18.2	17.9	17.5	18.5
90°	24.6	25.3	26.0	26.4	26.8	27.2	27.6
92.5°	27.5	28.8	29.5	29.8	30.1	30.3	30.6
95°	32.8	34.2	34.9	34.9	34.9	34.9	34.9
97.5°	34.5	36.2	37.1	37.3	37.5	37.7	37.9
100°	35.3	36.9	37.9	38.0	38.3	38.4	38.7
102.5°	45.3	40.2	37.9	38.3	38.7	39.1	39.4
105°	92.9	56.7	38.9	39.3	39.7	40.1	40.5
107.5°	289.8	263.2	236.3	209.1	181.7	154.5	127.2
110°	394.8	388.1	370.1	340.9	311.6	282.3	253.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	461.8	462.0	458.9	452.7	446.6	440.4	434.2
115°	534.4	536.5	537.9	538.7	539.6	540.3	541.1
117.5°	598.0	599.6	600.6	600.7	600.9	601.0	601.2
120°	639.9	641.6	642.4	642.4	642.4	642.4	642.4
122.5°	680.5	681.6	682.2	682.4	682.5	682.8	682.9
125°	737.5	737.9	738.3	738.7	739.2	739.6	740.0
127.5°	795.7	796.3	796.5	796.1	795.7	795.3	794.8
130°	830.8	831.6	831.8	831.4	831.0	830.6	830.2
132.5°	864.0	864.7	864.8	864.3	863.7	863.2	862.5
135°	913.9	914.6	914.6	913.9	913.3	912.7	912.1
137.5°	959.0	960.0	960.3	959.9	959.5	959.1	958.6
140°	987.2	988.1	988.2	987.9	987.5	987.1	986.7
142.5°	1014.0	1014.6	1014.7	1014.2	1013.5	1013.0	1012.4
145°	1051.4	1051.8	1051.9	1051.9	1051.9	1051.9	1051.9
147.5°	1085.1	1085.4	1085.2	1084.3	1083.3	1082.4	1081.4
150°	1105.6	1106.0	1106.0	1105.3	1104.8	1104.1	1103.5
152.5°	1124.3	1125.1	1125.0	1124.0	1123.1	1122.1	1121.2
155°	1149.9	1150.9	1150.7	1149.5	1148.3	1147.1	1145.9
157.5°	1172.0	1173.2	1173.1	1171.5	1169.8	1168.2	1166.6
160°	1184.5	1185.7	1185.7	1184.2	1182.8	1181.3	1179.9
162.5°	1196.0	1197.5	1197.5	1196.2	1194.9	1193.7	1192.4
165°	1211.5	1213.1	1213.2	1211.8	1210.4	1208.9	1207.5
167.5°	1223.3	1225.0	1225.0	1223.3	1221.6	1220.0	1218.4
170°	1229.9	1231.5	1231.5	1229.9	1228.3	1226.6	1225.0
172.5°	1234.3	1236.0	1235.9	1234.1	1232.3	1230.5	1228.7
175°	1239.4	1240.9	1240.7	1239.1	1237.5	1235.9	1234.2
177.5°	1241.3	1242.5	1242.4	1240.8	1239.1	1237.5	1235.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)