

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: P332027-940

Luminaire Tested: **S123DIP-S1000D1025U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332027-940
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-S1000D1025U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7436.8 lumens
Efficiency: N/A
Efficacy: 122.9 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

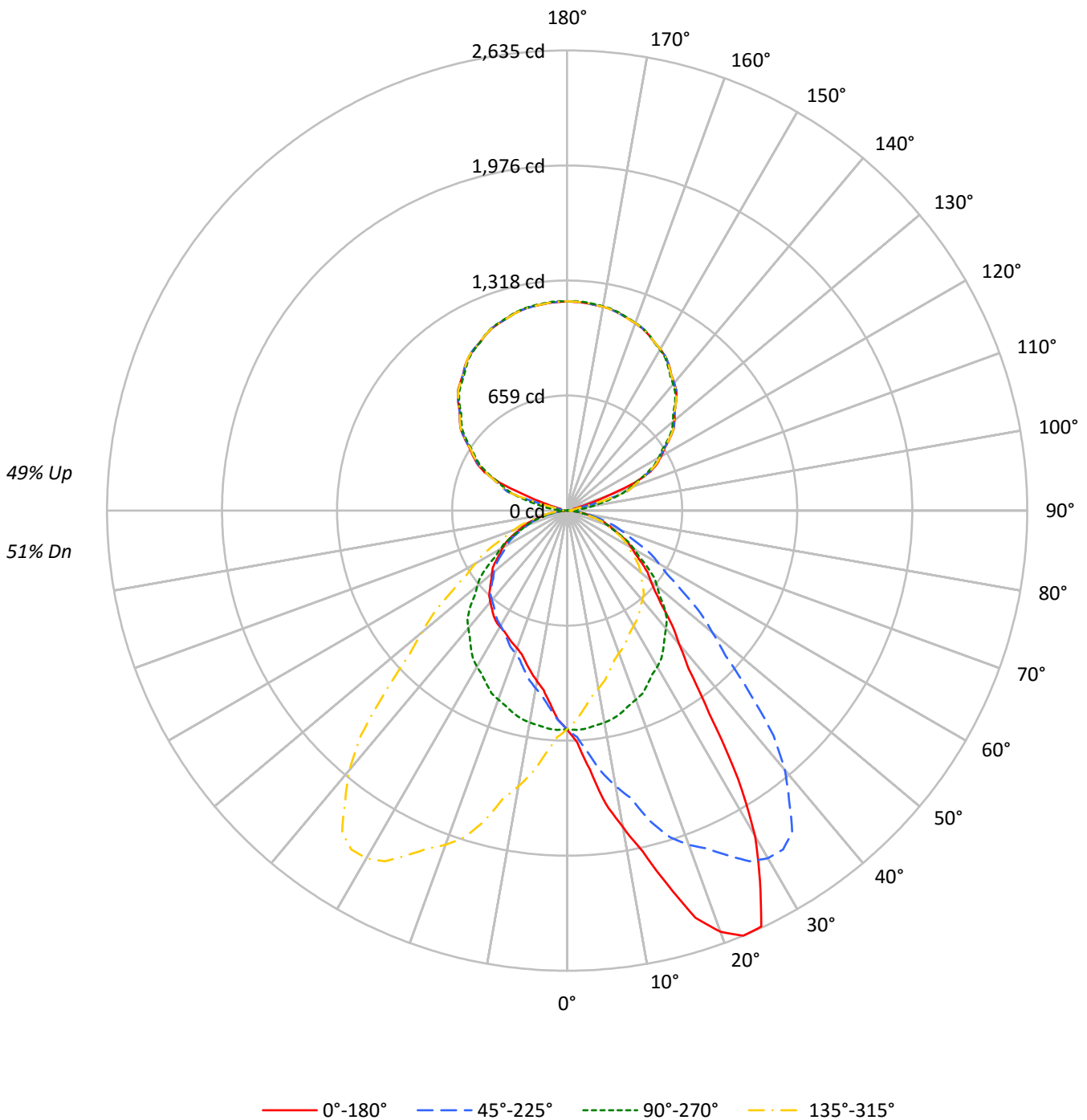
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	0														
RCR																																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51	51	51	51	51	51	51														
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43	43	43	43	43	43	43														
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37	37	37	37	37	37	37														
3	82	73	65	60	75	67	61	56	58	53	49	48	45	42	40	38	35	31	31	31	31	31	31	31														
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27	27	27	27	27	27	27														
5	69	57	49	44	64	54	46	41	46	40	36	39	35	31	32	29	27	24	24	24	24	24	24	24														
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21	21	21	21	21	21	21														
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19	19	19	19	19	19	19														
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	17	17	17	17	17	17	17														
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15	15	15	15	15	15	15														
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14	14	14	14	14	14	14														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13481	13481	13481	13481
5°	16077	13539	11998	13539
10°	20122	13470	10837	13470
15°	24681	13362	10089	13362
20°	29402	13192	9606	13192
25°	31220	12986	9499	12986
30°	26759	12837	9548	12837
35°	18611	12623	9648	12623
40°	14018	12372	9618	12372
45°	11639	12000	9496	12000
50°	10426	11238	9409	11238
55°	9747	10419	9293	10419
60°	9143	9563	9197	9563
65°	8593	8716	8904	8716
70°	8060	7755	8478	7755
75°	7216	6791	7773	6791
80°	6316	5566	6695	5566
85°	4940	4039	4495	4039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.7
10°-20°	395.6	5.3
20°-30°	664.0	8.9
30°-40°	751.8	10.1
40°-50°	674.2	9.1
50°-60°	544.1	7.3
60°-70°	379.1	5.1
70°-80°	199.3	2.7
80°-90°	52.1	0.7
90°-100°	43.6	0.6
100°-110°	207.6	2.8
110°-120°	498.6	6.7
120°-130°	634.9	8.5
130°-140°	678.4	9.1
140°-150°	634.4	8.5
150°-160°	511.7	6.9
160°-170°	330.3	4.4
170°-180°	113.8	1.5
0°-30°	1182.9	15.9
0°-40°	1934.7	26.0
0°-60°	3153.0	42.4
0°-90°	3783.5	50.9
90°-120°	749.8	10.1
90°-150°	2697.6	36.3
90°-180°	3653.0	49.1
0°-180°	7436.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1488	1253	1110	1253	1488	154
15°	2215	1199	905	1199	2215	639
25°	2629	1093	800	1093	2629	1153
35°	1416	961	734	961	1416	920
45°	765	788	624	788	765	605
55°	519	555	495	555	519	466
65°	337	342	350	342	337	336
75°	174	163	187	163	174	186
85°	40	33	36	33	40	48
90°	27	1	27	1	27	14
95°	34	54	34	54	34	28
105°	39	265	39	265	39	89
115°	523	498	523	498	523	484
125°	716	701	716	701	716	639
135°	882	873	882	873	882	680
145°	1017	1008	1017	1008	1017	635
155°	1108	1110	1108	1110	1108	511
165°	1168	1170	1168	1170	1168	330
175°	1194	1198	1194	1198	1194	114
180°	1198	1198	1198	1198	1198	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1329.1	1328.2	1325.7	1327.7	1323.8	1318.5	1317.9	1313.1	1299.0	1298.1	1294.2
5°	1487.9	1483.0	1482.4	1481.8	1473.3	1461.8	1439.9	1438.2	1409.0	1394.5	1376.8
7.5°	1693.4	1696.0	1687.1	1679.4	1653.4	1636.3	1612.8	1582.9	1547.1	1510.8	1486.7
10°	1841.0	1861.1	1836.2	1819.2	1803.4	1773.7	1739.1	1696.0	1653.0	1602.6	1564.3
12.5°	1999.3	2009.1	2004.1	1988.2	1963.6	1918.3	1857.1	1809.6	1770.0	1686.0	1652.2
15°	2214.8	2251.8	2228.2	2173.5	2174.8	2131.7	2051.6	1963.6	1916.9	1843.4	1743.4
17.5°	2444.4	2449.1	2439.0	2393.4	2363.1	2303.9	2230.0	2145.6	2051.0	1962.1	1856.0
20°	2566.8	2563.1	2541.9	2518.2	2466.0	2419.9	2339.2	2245.1	2123.8	2036.4	1920.6
22.5°	2634.7	2628.7	2618.6	2598.8	2555.4	2505.9	2433.4	2330.6	2215.1	2094.7	1960.8
25°	2628.7	2636.5	2637.8	2632.3	2617.2	2587.4	2530.3	2448.5	2333.2	2178.4	2038.9
27.5°	2390.8	2402.0	2434.4	2463.2	2495.3	2528.1	2523.7	2483.1	2397.7	2264.1	2093.5
30°	2152.9	2128.7	2188.7	2264.6	2316.1	2407.2	2458.2	2461.2	2413.2	2298.6	2132.3
32.5°	1822.8	1849.5	1876.1	1969.4	2082.1	2184.3	2285.8	2367.5	2376.9	2300.5	2155.1
35°	1416.3	1449.7	1498.2	1546.8	1668.1	1772.5	1950.9	2106.2	2230.0	2246.4	2157.1
37.5°	1141.3	1157.8	1188.5	1237.2	1316.5	1440.3	1578.3	1774.7	1954.0	2087.4	2093.2
40°	997.6	1002.5	1037.1	1074.1	1138.4	1240.3	1364.7	1538.2	1753.0	1939.4	2017.0
42.5°	889.8	900.4	915.2	950.7	1001.9	1078.6	1194.3	1337.7	1534.6	1749.0	1900.9
45°	764.6	776.7	785.8	809.5	845.9	897.4	978.2	1109.2	1259.1	1480.6	1685.1
47.5°	681.8	682.8	689.6	707.4	732.2	770.9	828.0	912.1	1049.7	1229.4	1439.3
50°	622.6	632.3	634.7	648.6	668.1	696.6	744.0	815.6	928.4	1086.2	1279.2
52.5°	580.9	583.7	590.6	600.7	617.6	639.8	680.8	736.9	825.5	959.9	1137.4
55°	519.4	519.4	526.1	534.0	543.7	563.7	591.0	632.3	699.6	804.1	950.8
57.5°	462.6	465.7	470.4	472.8	481.1	494.3	517.1	548.4	598.7	679.0	795.8
60°	424.7	430.3	429.6	434.4	441.8	452.1	471.4	497.0	541.9	606.2	704.5
62.5°	391.7	391.4	391.3	397.1	404.4	414.2	426.9	448.9	487.1	544.0	627.8
65°	337.4	336.2	340.5	344.0	346.5	353.7	363.5	382.9	408.4	450.8	515.8
67.5°	289.1	285.5	287.8	289.1	293.2	298.9	308.0	320.0	340.3	374.4	423.3
70°	256.1	253.1	252.4	253.6	257.3	261.5	268.2	279.7	298.5	325.8	361.7
72.5°	222.1	220.0	219.9	222.6	224.3	227.0	231.8	242.4	257.3	277.8	311.2
75°	173.5	173.5	173.5	174.2	175.9	178.4	182.0	187.5	199.0	213.6	236.0
77.5°	130.1	130.0	129.2	129.1	131.8	132.9	133.8	138.8	145.3	155.1	171.5
80°	101.9	98.9	100.1	101.9	103.2	103.8	105.6	106.8	112.3	117.7	129.2
82.5°	75.7	73.2	73.4	76.2	76.4	77.0	78.9	80.6	82.7	87.7	93.8
85°	40.0	40.0	40.7	40.7	41.3	40.7	42.4	43.1	43.1	46.1	49.8
87.5°	19.9	18.8	19.3	19.7	19.1	19.4	19.8	20.2	20.4	20.8	20.8
90°	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9	22.1	21.4	18.8
92.5°	29.5	29.3	29.1	28.8	28.6	27.8	26.6	25.3	24.1	22.8	20.9
95°	33.8	33.8	33.8	33.8	33.8	33.2	31.7	30.3	29.0	27.6	25.4
97.5°	36.6	36.5	36.3	36.1	35.8	35.0	33.4	31.8	30.2	28.6	42.9
100°	37.4	37.2	37.0	36.8	36.6	35.7	34.2	32.5	30.9	29.3	60.2
102.5°	38.1	37.7	37.4	37.0	36.6	39.0	43.9	48.8	53.7	58.6	92.3
105°	39.1	38.8	38.3	38.0	37.5	54.9	89.9	124.9	159.9	194.9	212.8
107.5°	123.0	149.4	175.8	202.2	228.5	254.6	280.3	305.9	331.6	357.3	354.5
110°	244.8	273.0	301.3	329.6	357.9	375.3	381.8	388.3	394.8	401.4	399.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	419.9	425.9	431.9	437.8	443.8	446.7	446.7	446.5	446.4	446.3	444.1
115°	523.3	522.5	521.7	520.9	520.2	518.8	516.8	514.9	512.9	510.9	509.1
117.5°	581.4	581.2	581.0	580.9	580.8	579.9	578.3	576.8	575.2	573.5	572.7
120°	621.3	621.3	621.3	621.3	621.3	620.5	618.8	617.3	615.7	614.1	613.6
122.5°	660.4	660.2	660.1	660.0	659.8	659.2	658.1	656.9	655.9	654.7	654.0
125°	715.6	715.2	714.8	714.4	714.0	713.6	713.2	712.8	712.5	712.0	711.2
127.5°	768.7	769.0	769.5	769.8	770.3	770.1	769.5	768.8	768.2	767.6	766.6
130°	802.8	803.3	803.6	804.1	804.4	804.2	803.4	802.6	801.8	801.0	800.2
132.5°	834.2	834.7	835.3	835.8	836.3	836.2	835.4	834.6	833.9	833.1	832.5
135°	882.1	882.6	883.2	883.9	884.4	884.4	883.9	883.2	882.6	882.1	881.3
137.5°	927.1	927.5	927.9	928.3	928.6	928.4	927.5	926.5	925.5	924.6	924.2
140°	954.1	954.6	954.9	955.3	955.7	955.6	954.8	954.0	953.1	952.3	951.8
142.5°	979.1	979.6	980.2	980.7	981.2	981.2	980.6	980.0	979.4	978.7	978.1
145°	1017.4	1017.4	1017.4	1017.4	1017.4	1017.2	1016.7	1016.4	1015.9	1015.6	1015.1
147.5°	1045.8	1046.7	1047.7	1048.6	1049.5	1049.7	1049.3	1048.9	1048.6	1048.1	1047.8
150°	1067.2	1067.7	1068.4	1069.0	1069.5	1069.7	1069.3	1068.9	1068.4	1068.1	1067.6
152.5°	1084.2	1085.2	1086.1	1087.0	1087.9	1088.0	1087.3	1086.5	1085.8	1085.1	1084.9
155°	1108.1	1109.3	1110.5	1111.7	1112.9	1112.9	1112.0	1111.0	1110.0	1109.0	1108.8
157.5°	1128.3	1129.8	1131.3	1132.8	1134.4	1134.6	1133.4	1132.2	1131.0	1129.8	1130.1
160°	1141.0	1142.5	1143.8	1145.2	1146.6	1146.7	1145.5	1144.3	1143.2	1141.9	1142.1
162.5°	1153.2	1154.4	1155.6	1156.8	1158.1	1158.0	1156.6	1155.3	1154.0	1152.6	1152.8
165°	1167.8	1169.1	1170.5	1171.9	1173.3	1173.2	1171.6	1170.0	1168.4	1166.9	1167.1
167.5°	1178.2	1179.8	1181.4	1183.0	1184.5	1184.5	1183.0	1181.4	1179.8	1178.2	1178.2
170°	1184.6	1186.2	1187.8	1189.5	1191.0	1191.0	1189.5	1187.8	1186.2	1184.6	1184.6
172.5°	1188.2	1190.0	1191.7	1193.5	1195.2	1195.2	1193.6	1192.1	1190.5	1188.9	1188.7
175°	1193.6	1195.2	1196.8	1198.3	1199.9	1200.0	1198.6	1197.2	1195.9	1194.4	1194.3
177.5°	1195.2	1196.8	1198.4	1199.9	1201.5	1201.7	1200.4	1199.1	1197.8	1196.6	1196.4
180°	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1291.3	1287.4	1283.5	1276.8	1270.9	1262.7	1260.2	1257.3	1248.6	1240.8	1234.9
5°	1370.1	1355.6	1334.4	1314.9	1299.1	1277.9	1265.8	1253.0	1234.8	1218.4	1205.1
7.5°	1452.7	1424.1	1391.1	1355.3	1322.1	1290.0	1264.2	1241.2	1215.7	1191.5	1172.7
10°	1518.2	1476.9	1430.8	1381.1	1338.6	1297.4	1262.8	1232.4	1199.6	1171.1	1147.5
12.5°	1593.0	1531.8	1468.2	1407.7	1357.5	1300.3	1258.4	1219.8	1182.7	1148.3	1121.8
15°	1681.4	1603.7	1528.6	1445.4	1369.0	1297.4	1247.6	1199.1	1155.9	1120.8	1086.8
17.5°	1762.0	1674.0	1574.9	1473.8	1381.5	1296.6	1227.0	1172.1	1118.2	1075.1	1041.3
20°	1807.7	1707.5	1595.3	1490.3	1388.4	1293.7	1217.3	1151.7	1093.4	1047.9	1009.7
22.5°	1847.0	1729.8	1613.7	1501.5	1387.9	1285.9	1199.3	1131.8	1068.7	1024.1	983.5
25°	1887.8	1747.6	1631.1	1499.4	1372.6	1267.0	1169.9	1093.4	1030.4	978.2	936.3
27.5°	1922.7	1746.4	1608.1	1466.5	1348.5	1242.7	1139.1	1057.0	990.1	933.4	890.9
30°	1946.0	1748.8	1584.4	1444.2	1325.3	1216.0	1115.3	1032.8	962.4	904.7	864.7
32.5°	1960.6	1747.3	1562.5	1413.1	1288.3	1191.8	1089.6	1004.2	931.8	875.1	836.5
35°	1969.1	1736.7	1524.9	1348.9	1228.8	1134.7	1049.2	960.6	884.8	832.0	788.3
37.5°	1952.0	1714.2	1481.2	1287.0	1155.5	1062.8	990.9	915.4	842.8	784.7	747.1
40°	1925.4	1699.7	1447.2	1243.3	1105.0	1015.7	954.5	880.5	808.9	753.7	718.5
42.5°	1874.4	1670.0	1409.9	1194.8	1052.6	963.3	907.0	845.1	777.3	725.5	690.3
45°	1750.0	1605.6	1353.8	1122.0	975.1	882.9	833.1	788.3	726.9	676.5	646.2
47.5°	1577.4	1508.6	1272.7	1045.2	894.3	805.6	753.9	717.7	673.0	632.3	603.2
50°	1457.5	1429.1	1217.8	992.7	840.4	753.7	703.9	671.1	639.0	598.3	571.6
52.5°	1319.2	1336.8	1153.8	938.3	785.6	700.3	653.4	627.4	598.2	564.8	541.5
55°	1124.4	1188.1	1043.1	847.1	703.9	622.6	578.3	555.2	538.2	513.4	493.3
57.5°	942.0	1023.1	923.5	753.0	623.7	553.5	511.0	485.9	475.0	462.0	446.2
60°	833.7	913.8	838.0	689.9	569.8	503.0	465.4	444.2	433.3	424.2	410.8
62.5°	737.2	818.2	754.5	625.9	516.8	455.0	422.2	401.4	393.0	388.3	376.8
65°	604.4	674.1	631.7	526.1	441.1	386.6	356.8	342.2	334.4	332.5	325.2
67.5°	491.9	545.0	514.1	436.4	369.5	322.4	297.1	284.7	278.7	278.0	272.6
70°	418.1	467.9	444.2	373.8	316.1	279.1	257.3	246.4	242.7	242.1	239.1
72.5°	360.8	395.5	376.7	318.0	273.4	239.8	223.8	212.4	208.2	209.1	207.1
75°	267.0	293.1	282.1	241.5	205.7	183.9	170.5	163.3	159.6	161.4	159.0
77.5°	192.1	208.7	198.8	170.7	148.6	132.8	123.0	118.4	115.2	115.0	114.0
80°	145.0	154.7	149.3	132.2	114.0	100.8	92.8	89.8	88.0	87.4	86.8
82.5°	103.3	111.6	105.1	93.5	81.1	73.0	68.6	64.6	63.2	63.6	63.0
85°	52.2	55.2	52.8	45.5	40.7	37.0	34.6	32.7	31.6	32.2	30.9
87.5°	21.2	21.1	19.2	16.9	15.4	13.6	13.2	11.9	11.2	11.7	11.6
90°	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9	2.9	4.8	6.9
92.5°	18.9	16.9	15.1	14.4	14.9	15.4	16.0	16.6	16.0	15.4	14.9
95°	23.3	21.0	18.9	21.8	30.0	38.1	46.2	54.3	46.2	38.1	30.0
97.5°	57.2	71.4	85.6	94.5	98.2	101.8	105.5	109.1	105.5	101.8	98.2
100°	91.0	121.9	152.8	166.2	162.3	158.4	154.4	150.4	154.4	158.4	162.3
102.5°	126.0	159.7	193.4	208.8	206.0	203.1	200.3	197.4	200.3	203.1	206.0
105°	230.5	248.3	266.1	273.9	271.8	269.6	267.4	265.2	267.4	269.6	271.8
107.5°	351.7	348.8	346.1	343.8	342.1	340.3	338.6	336.8	338.6	340.3	342.1
110°	397.1	394.8	392.7	390.8	389.2	387.6	386.1	384.5	386.1	387.6	389.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	441.9	439.8	437.6	435.8	434.4	432.9	431.5	430.1	431.5	432.9	434.4
115°	507.3	505.5	503.8	502.3	501.1	499.9	498.7	497.6	498.7	499.9	501.1
117.5°	571.8	570.8	569.9	568.7	567.3	565.8	564.4	562.8	564.4	565.8	567.3
120°	613.0	612.3	611.8	610.6	608.8	607.0	605.2	603.4	605.2	607.0	608.8
122.5°	653.3	652.5	651.8	650.6	649.2	647.6	646.2	644.8	646.2	647.6	649.2
125°	710.4	709.7	708.9	707.7	706.1	704.5	702.9	701.3	702.9	704.5	706.1
127.5°	765.7	764.7	763.8	762.5	760.9	759.4	757.8	756.2	757.8	759.4	760.9
130°	799.5	798.7	797.9	796.7	795.1	793.5	791.9	790.4	791.9	793.5	795.1
132.5°	831.8	831.2	830.5	829.5	827.9	826.3	824.7	823.1	824.7	826.3	827.9
135°	880.5	879.7	878.9	877.9	876.7	875.5	874.3	873.2	874.3	875.5	876.7
137.5°	923.7	923.3	922.8	921.9	920.4	918.9	917.4	915.9	917.4	918.9	920.4
140°	951.2	950.6	950.0	949.1	947.9	946.7	945.6	944.3	945.6	946.7	947.9
142.5°	977.5	977.0	976.3	975.4	974.3	973.0	971.9	970.7	971.9	973.0	974.3
145°	1014.8	1014.4	1014.0	1013.1	1011.7	1010.3	1009.0	1007.5	1009.0	1010.3	1011.7
147.5°	1047.3	1047.0	1046.5	1045.9	1045.0	1044.1	1043.2	1042.2	1043.2	1044.1	1045.0
150°	1067.3	1066.8	1066.5	1066.0	1065.4	1064.8	1064.3	1063.6	1064.3	1064.8	1065.4
152.5°	1084.7	1084.4	1084.2	1084.0	1083.7	1083.4	1083.2	1082.8	1083.2	1083.4	1083.7
155°	1108.6	1108.4	1108.2	1108.3	1108.8	1109.1	1109.5	1109.9	1109.5	1109.1	1108.8
157.5°	1130.2	1130.4	1130.6	1130.8	1130.8	1130.9	1130.9	1130.9	1130.9	1130.9	1130.8
160°	1142.4	1142.5	1142.7	1142.9	1143.2	1143.4	1143.5	1143.7	1143.5	1143.4	1143.2
162.5°	1153.0	1153.2	1153.4	1153.8	1154.3	1154.8	1155.3	1155.8	1155.3	1154.8	1154.3
165°	1167.2	1167.4	1167.7	1168.1	1168.7	1169.2	1169.8	1170.5	1169.8	1169.2	1168.7
167.5°	1178.2	1178.2	1178.2	1178.7	1179.5	1180.3	1181.1	1181.8	1181.1	1180.3	1179.5
170°	1184.6	1184.6	1184.6	1185.1	1185.9	1186.7	1187.4	1188.2	1187.4	1186.7	1185.9
172.5°	1188.7	1188.5	1188.3	1188.7	1189.6	1190.6	1191.6	1192.5	1191.6	1190.6	1189.6
175°	1194.1	1193.8	1193.6	1194.1	1195.1	1196.1	1197.0	1198.0	1197.0	1196.1	1195.1
177.5°	1196.3	1196.1	1196.0	1196.3	1197.0	1197.8	1198.6	1199.4	1198.6	1197.8	1197.0
180°	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1231.5	1228.2	1223.3	1216.0	1210.2	1201.0	1201.0	1202.5	1202.5	1201.9	1201.0
5°	1194.2	1185.1	1174.2	1161.5	1148.1	1134.7	1132.3	1127.5	1123.8	1121.3	1118.3
7.5°	1154.8	1138.6	1122.7	1104.8	1088.6	1075.1	1065.8	1058.0	1053.0	1047.7	1043.8
10°	1128.0	1108.0	1089.2	1070.4	1049.7	1033.4	1023.1	1015.7	1010.3	1005.5	1003.1
12.5°	1096.4	1073.5	1052.8	1034.9	1012.4	995.5	985.7	982.3	975.9	965.6	960.3
15°	1050.3	1029.1	1004.2	977.0	966.0	945.4	933.9	928.4	924.8	916.9	914.4
17.5°	1010.9	983.1	955.2	934.9	914.5	897.9	891.4	884.6	879.8	873.3	871.4
20°	979.4	954.5	929.0	907.1	885.9	867.7	862.3	857.4	852.6	849.5	847.1
22.5°	947.4	922.5	901.3	880.9	858.3	846.3	840.4	835.1	831.7	829.6	827.2
25°	902.3	880.5	856.8	838.6	820.4	812.5	808.9	805.8	803.4	800.4	799.8
27.5°	862.0	838.2	819.0	802.1	789.0	782.4	778.9	777.4	777.9	779.0	779.7
30°	832.0	810.1	794.3	779.7	767.6	761.5	760.9	760.9	763.4	763.9	765.2
32.5°	804.2	786.3	770.5	756.4	747.3	743.1	745.4	745.4	747.3	748.9	751.1
35°	763.9	748.1	736.0	723.9	716.0	717.8	719.1	720.2	723.3	726.9	729.4
37.5°	725.5	711.8	699.2	689.6	686.1	689.3	692.2	694.8	698.3	701.1	703.6
40°	697.9	687.5	675.4	666.9	668.1	669.9	672.3	675.4	678.4	680.2	682.7
42.5°	672.1	661.3	652.1	645.1	646.8	649.1	650.5	652.1	655.6	658.9	660.3
45°	632.9	624.4	615.9	611.6	612.9	614.1	615.3	617.2	620.2	622.6	623.2
47.5°	588.8	582.9	577.2	573.1	575.0	574.5	576.1	580.0	580.9	582.4	585.8
50°	560.7	555.2	548.6	547.3	547.3	547.3	548.0	552.8	552.8	555.2	557.7
52.5°	529.6	526.1	521.8	519.7	518.7	518.7	521.2	523.7	524.7	528.1	530.5
55°	483.7	480.0	476.4	474.5	473.3	474.5	479.4	480.5	483.7	485.4	487.2
57.5°	435.7	432.9	430.0	429.0	428.7	430.3	433.0	436.7	437.4	443.0	445.8
60°	404.1	399.8	397.4	397.4	396.3	401.7	400.5	406.5	407.8	411.4	415.6
62.5°	371.6	365.9	364.9	364.9	366.7	368.2	369.9	372.6	375.8	380.3	383.6
65°	319.1	316.1	320.4	319.8	318.6	322.2	322.2	325.2	328.9	333.1	339.8
67.5°	269.6	268.0	268.3	268.3	270.2	272.2	273.9	276.6	281.0	285.4	289.8
70°	236.0	237.9	234.9	237.3	239.1	239.7	240.9	244.5	249.4	252.4	257.3
72.5°	203.5	203.4	203.8	204.7	206.5	207.7	208.8	213.0	218.3	220.9	224.8
75°	156.6	156.0	157.7	157.7	160.8	162.0	163.3	165.1	169.9	173.5	176.6
77.5°	114.3	115.0	114.7	116.7	115.9	116.1	119.9	121.7	122.3	129.4	131.0
80°	86.1	87.4	88.0	88.6	89.2	88.0	92.2	94.1	94.1	98.3	101.3
82.5°	61.9	62.6	64.2	64.8	64.9	66.2	66.5	67.9	69.3	71.2	75.1
85°	30.9	32.7	33.3	32.7	33.3	32.2	34.0	34.6	35.2	35.2	35.2
87.5°	11.5	12.4	12.4	13.5	13.5	14.4	14.6	13.8	14.0	15.6	13.7
90°	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9	23.7	24.5	25.1
92.5°	14.4	15.1	16.9	18.9	20.9	22.8	24.1	25.3	26.6	27.8	28.6
95°	21.8	18.9	21.0	23.3	25.4	27.6	29.0	30.3	31.7	33.2	33.8
97.5°	94.5	85.6	71.4	57.2	42.9	28.6	30.2	31.8	33.4	35.0	35.8
100°	166.2	152.8	121.9	91.0	60.2	29.3	30.9	32.5	34.2	35.7	36.6
102.5°	208.8	193.4	159.7	126.0	92.3	58.6	53.7	48.8	43.9	39.0	36.6
105°	273.9	266.1	248.3	230.5	212.8	194.9	159.9	124.9	89.9	54.9	37.5
107.5°	343.8	346.1	348.8	351.7	354.5	357.3	331.6	305.9	280.3	254.6	228.5
110°	390.8	392.7	394.8	397.1	399.2	401.4	394.8	388.3	381.8	375.3	357.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	435.8	437.6	439.8	441.9	444.1	446.3	446.4	446.5	446.7	446.7	443.8
115°	502.3	503.8	505.5	507.3	509.1	510.9	512.9	514.9	516.8	518.8	520.2
117.5°	568.7	569.9	570.8	571.8	572.7	573.5	575.2	576.8	578.3	579.9	580.8
120°	610.6	611.8	612.3	613.0	613.6	614.1	615.7	617.3	618.8	620.5	621.3
122.5°	650.6	651.8	652.5	653.3	654.0	654.7	655.9	656.9	658.1	659.2	659.8
125°	707.7	708.9	709.7	710.4	711.2	712.0	712.5	712.8	713.2	713.6	714.0
127.5°	762.5	763.8	764.7	765.7	766.6	767.6	768.2	768.8	769.5	770.1	770.3
130°	796.7	797.9	798.7	799.5	800.2	801.0	801.8	802.6	803.4	804.2	804.4
132.5°	829.5	830.5	831.2	831.8	832.5	833.1	833.9	834.6	835.4	836.2	836.3
135°	877.9	878.9	879.7	880.5	881.3	882.1	882.6	883.2	883.9	884.4	884.4
137.5°	921.9	922.8	923.3	923.7	924.2	924.6	925.5	926.5	927.5	928.4	928.6
140°	949.1	950.0	950.6	951.2	951.8	952.3	953.1	954.0	954.8	955.6	955.7
142.5°	975.4	976.3	977.0	977.5	978.1	978.7	979.4	980.0	980.6	981.2	981.2
145°	1013.1	1014.0	1014.4	1014.8	1015.1	1015.6	1015.9	1016.4	1016.7	1017.2	1017.4
147.5°	1045.9	1046.5	1047.0	1047.3	1047.8	1048.1	1048.6	1048.9	1049.3	1049.7	1049.5
150°	1066.0	1066.5	1066.8	1067.3	1067.6	1068.1	1068.4	1068.9	1069.3	1069.7	1069.5
152.5°	1084.0	1084.2	1084.4	1084.7	1084.9	1085.1	1085.8	1086.5	1087.3	1088.0	1087.9
155°	1108.3	1108.2	1108.4	1108.6	1108.8	1109.0	1110.0	1111.0	1112.0	1112.9	1112.9
157.5°	1130.8	1130.6	1130.4	1130.2	1130.1	1129.8	1131.0	1132.2	1133.4	1134.6	1134.4
160°	1142.9	1142.7	1142.5	1142.4	1142.1	1141.9	1143.2	1144.3	1145.5	1146.7	1146.6
162.5°	1153.8	1153.4	1153.2	1153.0	1152.8	1152.6	1154.0	1155.3	1156.6	1158.0	1158.1
165°	1168.1	1167.7	1167.4	1167.2	1167.1	1166.9	1168.4	1170.0	1171.6	1173.2	1173.3
167.5°	1178.7	1178.2	1178.2	1178.2	1178.2	1178.2	1179.8	1181.4	1183.0	1184.5	1184.5
170°	1185.1	1184.6	1184.6	1184.6	1184.6	1184.6	1186.2	1187.8	1189.5	1191.0	1191.0
172.5°	1188.7	1188.3	1188.5	1188.7	1188.7	1188.9	1190.5	1192.1	1193.6	1195.2	1195.2
175°	1194.1	1193.6	1193.8	1194.1	1194.3	1194.4	1195.9	1197.2	1198.6	1200.0	1199.9
177.5°	1196.3	1196.0	1196.1	1196.3	1196.4	1196.6	1197.8	1199.1	1200.4	1201.7	1201.5
180°	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0



TEST NUMBER: P332027-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1197.6	1197.1	1200.5	1198.1	1200.5	1197.1	1197.6	1201.0	1201.9	1202.5	1202.5
5°	1114.7	1116.5	1110.4	1110.4	1110.4	1116.5	1114.7	1118.3	1121.3	1123.8	1127.5
7.5°	1040.9	1038.2	1038.5	1035.2	1038.5	1038.2	1040.9	1043.8	1047.7	1053.0	1058.0
10°	995.8	992.1	990.9	991.5	990.9	992.1	995.8	1003.1	1005.5	1010.3	1015.7
12.5°	958.4	957.7	949.7	949.8	949.7	957.7	958.4	960.3	965.6	975.9	982.3
15°	914.4	902.9	901.7	905.4	901.7	902.9	914.4	914.4	916.9	924.8	928.4
17.5°	870.4	864.3	864.7	862.9	864.7	864.3	870.4	871.4	873.3	879.8	884.6
20°	847.1	843.5	842.8	838.6	842.8	843.5	847.1	847.1	849.5	852.6	857.4
22.5°	825.7	824.6	824.9	820.2	824.9	824.6	825.7	827.2	829.6	831.7	835.1
25°	799.2	802.2	799.8	799.8	799.8	802.2	799.2	799.8	800.4	803.4	805.8
27.5°	781.2	781.0	779.9	779.9	779.9	781.0	781.2	779.7	779.0	777.9	777.4
30°	767.6	767.0	768.2	768.2	768.2	767.0	767.6	765.2	763.9	763.4	760.9
32.5°	754.0	754.8	755.1	755.5	755.1	754.8	754.0	751.1	748.9	747.3	745.4
35°	733.0	733.6	735.5	734.2	735.5	733.6	733.0	729.4	726.9	723.3	720.2
37.5°	704.6	707.4	706.8	707.8	706.8	707.4	704.6	703.6	701.1	698.3	694.8
40°	683.2	685.1	684.5	684.5	684.5	685.1	683.2	682.7	680.2	678.4	675.4
42.5°	661.4	662.7	661.2	660.2	661.2	662.7	661.4	660.3	658.9	655.6	652.1
45°	625.6	624.4	626.2	623.8	626.2	624.4	625.6	623.2	622.6	620.2	617.2
47.5°	585.6	586.7	587.3	589.1	587.3	586.7	585.6	585.8	582.4	580.9	580.0
50°	558.8	562.5	562.5	561.9	562.5	562.5	558.8	557.7	555.2	552.8	552.8
52.5°	532.6	534.3	536.8	536.6	536.8	534.3	532.6	530.5	528.1	524.7	523.7
55°	492.1	493.3	494.5	495.2	494.5	493.3	492.1	487.2	485.4	483.7	480.5
57.5°	450.1	449.6	452.5	453.4	452.5	449.6	450.1	445.8	443.0	437.4	436.7
60°	420.5	420.5	425.3	427.2	425.3	420.5	420.5	415.6	411.4	407.8	406.5
62.5°	389.0	390.9	395.7	393.2	395.7	390.9	389.0	383.6	380.3	375.8	372.6
65°	342.9	347.7	347.1	349.6	347.1	347.7	342.9	339.8	333.1	328.9	325.2
67.5°	294.6	297.7	302.0	302.5	302.0	297.7	294.6	289.8	285.4	281.0	276.6
70°	262.2	265.2	267.6	269.4	267.6	265.2	262.2	257.3	252.4	249.4	244.5
72.5°	230.6	232.2	238.0	235.4	238.0	232.2	230.6	224.8	220.9	218.3	213.0
75°	180.8	185.0	188.7	186.9	188.7	185.0	180.8	176.6	173.5	169.9	165.1
77.5°	133.8	137.9	139.6	138.1	139.6	137.9	133.8	131.0	129.4	122.3	121.7
80°	105.6	105.0	108.6	108.0	108.6	105.0	105.6	101.3	98.3	94.1	94.1
82.5°	77.4	76.9	78.6	78.9	78.6	76.9	77.4	75.1	71.2	69.3	67.9
85°	37.6	39.4	37.0	36.4	37.0	39.4	37.6	35.2	35.2	35.2	34.6
87.5°	13.8	13.9	13.6	13.1	13.6	13.9	13.8	13.7	15.6	14.0	13.8
90°	25.5	25.9	26.3	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9
92.5°	28.8	29.1	29.3	29.5	29.3	29.1	28.8	28.6	27.8	26.6	25.3
95°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.2	31.7	30.3
97.5°	36.1	36.3	36.5	36.6	36.5	36.3	36.1	35.8	35.0	33.4	31.8
100°	36.8	37.0	37.2	37.4	37.2	37.0	36.8	36.6	35.7	34.2	32.5
102.5°	37.0	37.4	37.7	38.1	37.7	37.4	37.0	36.6	39.0	43.9	48.8
105°	38.0	38.3	38.8	39.1	38.8	38.3	38.0	37.5	54.9	89.9	124.9
107.5°	202.2	175.8	149.4	123.0	149.4	175.8	202.2	228.5	254.6	280.3	305.9
110°	329.6	301.3	273.0	244.8	273.0	301.3	329.6	357.9	375.3	381.8	388.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	437.8	431.9	425.9	419.9	425.9	431.9	437.8	443.8	446.7	446.7	446.5
115°	520.9	521.7	522.5	523.3	522.5	521.7	520.9	520.2	518.8	516.8	514.9
117.5°	580.9	581.0	581.2	581.4	581.2	581.0	580.9	580.8	579.9	578.3	576.8
120°	621.3	621.3	621.3	621.3	621.3	621.3	621.3	621.3	620.5	618.8	617.3
122.5°	660.0	660.1	660.2	660.4	660.2	660.1	660.0	659.8	659.2	658.1	656.9
125°	714.4	714.8	715.2	715.6	715.2	714.8	714.4	714.0	713.6	713.2	712.8
127.5°	769.8	769.5	769.0	768.7	769.0	769.5	769.8	770.3	770.1	769.5	768.8
130°	804.1	803.6	803.3	802.8	803.3	803.6	804.1	804.4	804.2	803.4	802.6
132.5°	835.8	835.3	834.7	834.2	834.7	835.3	835.8	836.3	836.2	835.4	834.6
135°	883.9	883.2	882.6	882.1	882.6	883.2	883.9	884.4	884.4	883.9	883.2
137.5°	928.3	927.9	927.5	927.1	927.5	927.9	928.3	928.6	928.4	927.5	926.5
140°	955.3	954.9	954.6	954.1	954.6	954.9	955.3	955.7	955.6	954.8	954.0
142.5°	980.7	980.2	979.6	979.1	979.6	980.2	980.7	981.2	981.2	980.6	980.0
145°	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.2	1016.7	1016.4
147.5°	1048.6	1047.7	1046.7	1045.8	1046.7	1047.7	1048.6	1049.5	1049.7	1049.3	1048.9
150°	1069.0	1068.4	1067.7	1067.2	1067.7	1068.4	1069.0	1069.5	1069.7	1069.3	1068.9
152.5°	1087.0	1086.1	1085.2	1084.2	1085.2	1086.1	1087.0	1087.9	1088.0	1087.3	1086.5
155°	1111.7	1110.5	1109.3	1108.1	1109.3	1110.5	1111.7	1112.9	1112.9	1112.0	1111.0
157.5°	1132.8	1131.3	1129.8	1128.3	1129.8	1131.3	1132.8	1134.4	1134.6	1133.4	1132.2
160°	1145.2	1143.8	1142.5	1141.0	1142.5	1143.8	1145.2	1146.6	1146.7	1145.5	1144.3
162.5°	1156.8	1155.6	1154.4	1153.2	1154.4	1155.6	1156.8	1158.1	1158.0	1156.6	1155.3
165°	1171.9	1170.5	1169.1	1167.8	1169.1	1170.5	1171.9	1173.3	1173.2	1171.6	1170.0
167.5°	1183.0	1181.4	1179.8	1178.2	1179.8	1181.4	1183.0	1184.5	1184.5	1183.0	1181.4
170°	1189.5	1187.8	1186.2	1184.6	1186.2	1187.8	1189.5	1191.0	1191.0	1189.5	1187.8
172.5°	1193.5	1191.7	1190.0	1188.2	1190.0	1191.7	1193.5	1195.2	1195.2	1193.6	1192.1
175°	1198.3	1196.8	1195.2	1193.6	1195.2	1196.8	1198.3	1199.9	1200.0	1198.6	1197.2
177.5°	1199.9	1198.4	1196.8	1195.2	1196.8	1198.4	1199.9	1201.5	1201.7	1200.4	1199.1
180°	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1201.0	1201.0	1210.2	1216.0	1223.3	1228.2	1231.5	1234.9	1240.8	1248.6	1257.3
5°	1132.3	1134.7	1148.1	1161.5	1174.2	1185.1	1194.2	1205.1	1218.4	1234.8	1253.0
7.5°	1065.8	1075.1	1088.6	1104.8	1122.7	1138.6	1154.8	1172.7	1191.5	1215.7	1241.2
10°	1023.1	1033.4	1049.7	1070.4	1089.2	1108.0	1128.0	1147.5	1171.1	1199.6	1232.4
12.5°	985.7	995.5	1012.4	1034.9	1052.8	1073.5	1096.4	1121.8	1148.3	1182.7	1219.8
15°	933.9	945.4	966.0	977.0	1004.2	1029.1	1050.3	1086.8	1120.8	1155.9	1199.1
17.5°	891.4	897.9	914.5	934.9	955.2	983.1	1010.9	1041.3	1075.1	1118.2	1172.1
20°	862.3	867.7	885.9	907.1	929.0	954.5	979.4	1009.7	1047.9	1093.4	1151.7
22.5°	840.4	846.3	858.3	880.9	901.3	922.5	947.4	983.5	1024.1	1068.7	1131.8
25°	808.9	812.5	820.4	838.6	856.8	880.5	902.3	936.3	978.2	1030.4	1093.4
27.5°	778.9	782.4	789.0	802.1	819.0	838.2	862.0	890.9	933.4	990.1	1057.0
30°	760.9	761.5	767.6	779.7	794.3	810.1	832.0	864.7	904.7	962.4	1032.8
32.5°	745.4	743.1	747.3	756.4	770.5	786.3	804.2	836.5	875.1	931.8	1004.2
35°	719.1	717.8	716.0	723.9	736.0	748.1	763.9	788.3	832.0	884.8	960.6
37.5°	692.2	689.3	686.1	689.6	699.2	711.8	725.5	747.1	784.7	842.8	915.4
40°	672.3	669.9	668.1	666.9	675.4	687.5	697.9	718.5	753.7	808.9	880.5
42.5°	650.5	649.1	646.8	645.1	652.1	661.3	672.1	690.3	725.5	777.3	845.1
45°	615.3	614.1	612.9	611.6	615.9	624.4	632.9	646.2	676.5	726.9	788.3
47.5°	576.1	574.5	575.0	573.1	577.2	582.9	588.8	603.2	632.3	673.0	717.7
50°	548.0	547.3	547.3	547.3	548.6	555.2	560.7	571.6	598.3	639.0	671.1
52.5°	521.2	518.7	518.7	519.7	521.8	526.1	529.6	541.5	564.8	598.2	627.4
55°	479.4	474.5	473.3	474.5	476.4	480.0	483.7	493.3	513.4	538.2	555.2
57.5°	433.0	430.3	428.7	429.0	430.0	432.9	435.7	446.2	462.0	475.0	485.9
60°	400.5	401.7	396.3	397.4	397.4	399.8	404.1	410.8	424.2	433.3	444.2
62.5°	369.9	368.2	366.7	364.9	364.9	365.9	371.6	376.8	388.3	393.0	401.4
65°	322.2	322.2	318.6	319.8	320.4	316.1	319.1	325.2	332.5	334.4	342.2
67.5°	273.9	272.2	270.2	268.3	268.3	268.0	269.6	272.6	278.0	278.7	284.7
70°	240.9	239.7	239.1	237.3	234.9	237.9	236.0	239.1	242.1	242.7	246.4
72.5°	208.8	207.7	206.5	204.7	203.8	203.4	203.5	207.1	209.1	208.2	212.4
75°	163.3	162.0	160.8	157.7	157.7	156.0	156.6	159.0	161.4	159.6	163.3
77.5°	119.9	116.1	115.9	116.7	114.7	115.0	114.3	114.0	115.0	115.2	118.4
80°	92.2	88.0	89.2	88.6	88.0	87.4	86.1	86.8	87.4	88.0	89.8
82.5°	66.5	66.2	64.9	64.8	64.2	62.6	61.9	63.0	63.6	63.2	64.6
85°	34.0	32.2	33.3	32.7	33.3	32.7	30.9	30.9	32.2	31.6	32.7
87.5°	14.6	14.4	13.5	13.5	12.4	12.4	11.5	11.6	11.7	11.2	11.9
90°	22.1	21.4	18.8	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9
92.5°	24.1	22.8	20.9	18.9	16.9	15.1	14.4	14.9	15.4	16.0	16.6
95°	29.0	27.6	25.4	23.3	21.0	18.9	21.8	30.0	38.1	46.2	54.3
97.5°	30.2	28.6	42.9	57.2	71.4	85.6	94.5	98.2	101.8	105.5	109.1
100°	30.9	29.3	60.2	91.0	121.9	152.8	166.2	162.3	158.4	154.4	150.4
102.5°	53.7	58.6	92.3	126.0	159.7	193.4	208.8	206.0	203.1	200.3	197.4
105°	159.9	194.9	212.8	230.5	248.3	266.1	273.9	271.8	269.6	267.4	265.2
107.5°	331.6	357.3	354.5	351.7	348.8	346.1	343.8	342.1	340.3	338.6	336.8
110°	394.8	401.4	399.2	397.1	394.8	392.7	390.8	389.2	387.6	386.1	384.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	446.4	446.3	444.1	441.9	439.8	437.6	435.8	434.4	432.9	431.5	430.1
115°	512.9	510.9	509.1	507.3	505.5	503.8	502.3	501.1	499.9	498.7	497.6
117.5°	575.2	573.5	572.7	571.8	570.8	569.9	568.7	567.3	565.8	564.4	562.8
120°	615.7	614.1	613.6	613.0	612.3	611.8	610.6	608.8	607.0	605.2	603.4
122.5°	655.9	654.7	654.0	653.3	652.5	651.8	650.6	649.2	647.6	646.2	644.8
125°	712.5	712.0	711.2	710.4	709.7	708.9	707.7	706.1	704.5	702.9	701.3
127.5°	768.2	767.6	766.6	765.7	764.7	763.8	762.5	760.9	759.4	757.8	756.2
130°	801.8	801.0	800.2	799.5	798.7	797.9	796.7	795.1	793.5	791.9	790.4
132.5°	833.9	833.1	832.5	831.8	831.2	830.5	829.5	827.9	826.3	824.7	823.1
135°	882.6	882.1	881.3	880.5	879.7	878.9	877.9	876.7	875.5	874.3	873.2
137.5°	925.5	924.6	924.2	923.7	923.3	922.8	921.9	920.4	918.9	917.4	915.9
140°	953.1	952.3	951.8	951.2	950.6	950.0	949.1	947.9	946.7	945.6	944.3
142.5°	979.4	978.7	978.1	977.5	977.0	976.3	975.4	974.3	973.0	971.9	970.7
145°	1015.9	1015.6	1015.1	1014.8	1014.4	1014.0	1013.1	1011.7	1010.3	1009.0	1007.5
147.5°	1048.6	1048.1	1047.8	1047.3	1047.0	1046.5	1045.9	1045.0	1044.1	1043.2	1042.2
150°	1068.4	1068.1	1067.6	1067.3	1066.8	1066.5	1066.0	1065.4	1064.8	1064.3	1063.6
152.5°	1085.8	1085.1	1084.9	1084.7	1084.4	1084.2	1084.0	1083.7	1083.4	1083.2	1082.8
155°	1110.0	1109.0	1108.8	1108.6	1108.4	1108.2	1108.3	1108.8	1109.1	1109.5	1109.9
157.5°	1131.0	1129.8	1130.1	1130.2	1130.4	1130.6	1130.8	1130.8	1130.9	1130.9	1130.9
160°	1143.2	1141.9	1142.1	1142.4	1142.5	1142.7	1142.9	1143.2	1143.4	1143.5	1143.7
162.5°	1154.0	1152.6	1152.8	1153.0	1153.2	1153.4	1153.8	1154.3	1154.8	1155.3	1155.8
165°	1168.4	1166.9	1167.1	1167.2	1167.4	1167.7	1168.1	1168.7	1169.2	1169.8	1170.5
167.5°	1179.8	1178.2	1178.2	1178.2	1178.2	1178.2	1178.7	1179.5	1180.3	1181.1	1181.8
170°	1186.2	1184.6	1184.6	1184.6	1184.6	1184.6	1185.1	1185.9	1186.7	1187.4	1188.2
172.5°	1190.5	1188.9	1188.7	1188.7	1188.5	1188.3	1188.7	1189.6	1190.6	1191.6	1192.5
175°	1195.9	1194.4	1194.3	1194.1	1193.8	1193.6	1194.1	1195.1	1196.1	1197.0	1198.0
177.5°	1197.8	1196.6	1196.4	1196.3	1196.1	1196.0	1196.3	1197.0	1197.8	1198.6	1199.4
180°	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1260.2	1262.7	1270.9	1276.8	1283.5	1287.4	1291.3	1294.2	1298.1	1299.0	1313.1
5°	1265.8	1277.9	1299.1	1314.9	1334.4	1355.6	1370.1	1376.8	1394.5	1409.0	1438.2
7.5°	1264.2	1290.0	1322.1	1355.3	1391.1	1424.1	1452.7	1486.7	1510.8	1547.1	1582.9
10°	1262.8	1297.4	1338.6	1381.1	1430.8	1476.9	1518.2	1564.3	1602.6	1653.0	1696.0
12.5°	1258.4	1300.3	1357.5	1407.7	1468.2	1531.8	1593.0	1652.2	1686.0	1770.0	1809.6
15°	1247.6	1297.4	1369.0	1445.4	1528.6	1603.7	1681.4	1743.4	1843.4	1916.9	1963.6
17.5°	1227.0	1296.6	1381.5	1473.8	1574.9	1674.0	1762.0	1856.0	1962.1	2051.0	2145.6
20°	1217.3	1293.7	1388.4	1490.3	1595.3	1707.5	1807.7	1920.6	2036.4	2123.8	2245.1
22.5°	1199.3	1285.9	1387.9	1501.5	1613.7	1729.8	1847.0	1960.8	2094.7	2215.1	2330.6
25°	1169.9	1267.0	1372.6	1499.4	1631.1	1747.6	1887.8	2038.9	2178.4	2333.2	2448.5
27.5°	1139.1	1242.7	1348.5	1466.5	1608.1	1746.4	1922.7	2093.5	2264.1	2397.7	2483.1
30°	1115.3	1216.0	1325.3	1444.2	1584.4	1748.8	1946.0	2132.3	2298.6	2413.2	2461.2
32.5°	1089.6	1191.8	1288.3	1413.1	1562.5	1747.3	1960.6	2155.1	2300.5	2376.9	2367.5
35°	1049.2	1134.7	1228.8	1348.9	1524.9	1736.7	1969.1	2157.1	2246.4	2230.0	2106.2
37.5°	990.9	1062.8	1155.5	1287.0	1481.2	1714.2	1952.0	2093.2	2087.4	1954.0	1774.7
40°	954.5	1015.7	1105.0	1243.3	1447.2	1699.7	1925.4	2017.0	1939.4	1753.0	1538.2
42.5°	907.0	963.3	1052.6	1194.8	1409.9	1670.0	1874.4	1900.9	1749.0	1534.6	1337.7
45°	833.1	882.9	975.1	1122.0	1353.8	1605.6	1750.0	1685.1	1480.6	1259.1	1109.2
47.5°	753.9	805.6	894.3	1045.2	1272.7	1508.6	1577.4	1439.3	1229.4	1049.7	912.1
50°	703.9	753.7	840.4	992.7	1217.8	1429.1	1457.5	1279.2	1086.2	928.4	815.6
52.5°	653.4	700.3	785.6	938.3	1153.8	1336.8	1319.2	1137.4	959.9	825.5	736.9
55°	578.3	622.6	703.9	847.1	1043.1	1188.1	1124.4	950.8	804.1	699.6	632.3
57.5°	511.0	553.5	623.7	753.0	923.5	1023.1	942.0	795.8	679.0	598.7	548.4
60°	465.4	503.0	569.8	689.9	838.0	913.8	833.7	704.5	606.2	541.9	497.0
62.5°	422.2	455.0	516.8	625.9	754.5	818.2	737.2	627.8	544.0	487.1	448.9
65°	356.8	386.6	441.1	526.1	631.7	674.1	604.4	515.8	450.8	408.4	382.9
67.5°	297.1	322.4	369.5	436.4	514.1	545.0	491.9	423.3	374.4	340.3	320.0
70°	257.3	279.1	316.1	373.8	444.2	467.9	418.1	361.7	325.8	298.5	279.7
72.5°	223.8	239.8	273.4	318.0	376.7	395.5	360.8	311.2	277.8	257.3	242.4
75°	170.5	183.9	205.7	241.5	282.1	293.1	267.0	236.0	213.6	199.0	187.5
77.5°	123.0	132.8	148.6	170.7	198.8	208.7	192.1	171.5	155.1	145.3	138.8
80°	92.8	100.8	114.0	132.2	149.3	154.7	145.0	129.2	117.7	112.3	106.8
82.5°	68.6	73.0	81.1	93.5	105.1	111.6	103.3	93.8	87.7	82.7	80.6
85°	34.6	37.0	40.7	45.5	52.8	55.2	52.2	49.8	46.1	43.1	43.1
87.5°	13.2	13.6	15.4	16.9	19.2	21.1	21.2	20.8	20.8	20.4	20.2
90°	2.9	4.8	6.9	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9
92.5°	16.0	15.4	14.9	14.4	15.1	16.9	18.9	20.9	22.8	24.1	25.3
95°	46.2	38.1	30.0	21.8	18.9	21.0	23.3	25.4	27.6	29.0	30.3
97.5°	105.5	101.8	98.2	94.5	85.6	71.4	57.2	42.9	28.6	30.2	31.8
100°	154.4	158.4	162.3	166.2	152.8	121.9	91.0	60.2	29.3	30.9	32.5
102.5°	200.3	203.1	206.0	208.8	193.4	159.7	126.0	92.3	58.6	53.7	48.8
105°	267.4	269.6	271.8	273.9	266.1	248.3	230.5	212.8	194.9	159.9	124.9
107.5°	338.6	340.3	342.1	343.8	346.1	348.8	351.7	354.5	357.3	331.6	305.9
110°	386.1	387.6	389.2	390.8	392.7	394.8	397.1	399.2	401.4	394.8	388.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	431.5	432.9	434.4	435.8	437.6	439.8	441.9	444.1	446.3	446.4	446.5
115°	498.7	499.9	501.1	502.3	503.8	505.5	507.3	509.1	510.9	512.9	514.9
117.5°	564.4	565.8	567.3	568.7	569.9	570.8	571.8	572.7	573.5	575.2	576.8
120°	605.2	607.0	608.8	610.6	611.8	612.3	613.0	613.6	614.1	615.7	617.3
122.5°	646.2	647.6	649.2	650.6	651.8	652.5	653.3	654.0	654.7	655.9	656.9
125°	702.9	704.5	706.1	707.7	708.9	709.7	710.4	711.2	712.0	712.5	712.8
127.5°	757.8	759.4	760.9	762.5	763.8	764.7	765.7	766.6	767.6	768.2	768.8
130°	791.9	793.5	795.1	796.7	797.9	798.7	799.5	800.2	801.0	801.8	802.6
132.5°	824.7	826.3	827.9	829.5	830.5	831.2	831.8	832.5	833.1	833.9	834.6
135°	874.3	875.5	876.7	877.9	878.9	879.7	880.5	881.3	882.1	882.6	883.2
137.5°	917.4	918.9	920.4	921.9	922.8	923.3	923.7	924.2	924.6	925.5	926.5
140°	945.6	946.7	947.9	949.1	950.0	950.6	951.2	951.8	952.3	953.1	954.0
142.5°	971.9	973.0	974.3	975.4	976.3	977.0	977.5	978.1	978.7	979.4	980.0
145°	1009.0	1010.3	1011.7	1013.1	1014.0	1014.4	1014.8	1015.1	1015.6	1015.9	1016.4
147.5°	1043.2	1044.1	1045.0	1045.9	1046.5	1047.0	1047.3	1047.8	1048.1	1048.6	1048.9
150°	1064.3	1064.8	1065.4	1066.0	1066.5	1066.8	1067.3	1067.6	1068.1	1068.4	1068.9
152.5°	1083.2	1083.4	1083.7	1084.0	1084.2	1084.4	1084.7	1084.9	1085.1	1085.8	1086.5
155°	1109.5	1109.1	1108.8	1108.3	1108.2	1108.4	1108.6	1108.8	1109.0	1110.0	1111.0
157.5°	1130.9	1130.9	1130.8	1130.8	1130.6	1130.4	1130.2	1130.1	1129.8	1131.0	1132.2
160°	1143.5	1143.4	1143.2	1142.9	1142.7	1142.5	1142.4	1142.1	1141.9	1143.2	1144.3
162.5°	1155.3	1154.8	1154.3	1153.8	1153.4	1153.2	1153.0	1152.8	1152.6	1154.0	1155.3
165°	1169.8	1169.2	1168.7	1168.1	1167.7	1167.4	1167.2	1167.1	1166.9	1168.4	1170.0
167.5°	1181.1	1180.3	1179.5	1178.7	1178.2	1178.2	1178.2	1178.2	1178.2	1179.8	1181.4
170°	1187.4	1186.7	1185.9	1185.1	1184.6	1184.6	1184.6	1184.6	1184.6	1186.2	1187.8
172.5°	1191.6	1190.6	1189.6	1188.7	1188.3	1188.5	1188.7	1188.7	1188.9	1190.5	1192.1
175°	1197.0	1196.1	1195.1	1194.1	1193.6	1193.8	1194.1	1194.3	1194.4	1195.9	1197.2
177.5°	1198.6	1197.8	1197.0	1196.3	1196.0	1196.1	1196.3	1196.4	1196.6	1197.8	1199.1
180°	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1317.9	1318.5	1323.8	1327.7	1325.7	1328.2	1329.1
5°	1439.9	1461.8	1473.3	1481.8	1482.4	1483.0	1487.9
7.5°	1612.8	1636.3	1653.4	1679.4	1687.1	1696.0	1693.4
10°	1739.1	1773.7	1803.4	1819.2	1836.2	1861.1	1841.0
12.5°	1857.1	1918.3	1963.6	1988.2	2004.1	2009.1	1999.3
15°	2051.6	2131.7	2174.8	2173.5	2228.2	2251.8	2214.8
17.5°	2230.0	2303.9	2363.1	2393.4	2439.0	2449.1	2444.4
20°	2339.2	2419.9	2466.0	2518.2	2541.9	2563.1	2566.8
22.5°	2433.4	2505.9	2555.4	2598.8	2618.6	2628.7	2634.7
25°	2530.3	2587.4	2617.2	2632.3	2637.8	2636.5	2628.7
27.5°	2523.7	2528.1	2495.3	2463.2	2434.4	2402.0	2390.8
30°	2458.2	2407.2	2316.1	2264.6	2188.7	2128.7	2152.9
32.5°	2285.8	2184.3	2082.1	1969.4	1876.1	1849.5	1822.8
35°	1950.9	1772.5	1668.1	1546.8	1498.2	1449.7	1416.3
37.5°	1578.3	1440.3	1316.5	1237.2	1188.5	1157.8	1141.3
40°	1364.7	1240.3	1138.4	1074.1	1037.1	1002.5	997.6
42.5°	1194.3	1078.6	1001.9	950.7	915.2	900.4	889.8
45°	978.2	897.4	845.9	809.5	785.8	776.7	764.6
47.5°	828.0	770.9	732.2	707.4	689.6	682.8	681.8
50°	744.0	696.6	668.1	648.6	634.7	632.3	622.6
52.5°	680.8	639.8	617.6	600.7	590.6	583.7	580.9
55°	591.0	563.7	543.7	534.0	526.1	519.4	519.4
57.5°	517.1	494.3	481.1	472.8	470.4	465.7	462.6
60°	471.4	452.1	441.8	434.4	429.6	430.3	424.7
62.5°	426.9	414.2	404.4	397.1	391.3	391.4	391.7
65°	363.5	353.7	346.5	344.0	340.5	336.2	337.4
67.5°	308.0	298.9	293.2	289.1	287.8	285.5	289.1
70°	268.2	261.5	257.3	253.6	252.4	253.1	256.1
72.5°	231.8	227.0	224.3	222.6	219.9	220.0	222.1
75°	182.0	178.4	175.9	174.2	173.5	173.5	173.5
77.5°	133.8	132.9	131.8	129.1	129.2	130.0	130.1
80°	105.6	103.8	103.2	101.9	100.1	98.9	101.9
82.5°	78.9	77.0	76.4	76.2	73.4	73.2	75.7
85°	42.4	40.7	41.3	40.7	40.7	40.0	40.0
87.5°	19.8	19.4	19.1	19.7	19.3	18.8	19.9
90°	23.7	24.5	25.1	25.5	25.9	26.3	26.7
92.5°	26.6	27.8	28.6	28.8	29.1	29.3	29.5
95°	31.7	33.2	33.8	33.8	33.8	33.8	33.8
97.5°	33.4	35.0	35.8	36.1	36.3	36.5	36.6
100°	34.2	35.7	36.6	36.8	37.0	37.2	37.4
102.5°	43.9	39.0	36.6	37.0	37.4	37.7	38.1
105°	89.9	54.9	37.5	38.0	38.3	38.8	39.1
107.5°	280.3	254.6	228.5	202.2	175.8	149.4	123.0
110°	381.8	375.3	357.9	329.6	301.3	273.0	244.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	446.7	446.7	443.8	437.8	431.9	425.9	419.9
115°	516.8	518.8	520.2	520.9	521.7	522.5	523.3
117.5°	578.3	579.9	580.8	580.9	581.0	581.2	581.4
120°	618.8	620.5	621.3	621.3	621.3	621.3	621.3
122.5°	658.1	659.2	659.8	660.0	660.1	660.2	660.4
125°	713.2	713.6	714.0	714.4	714.8	715.2	715.6
127.5°	769.5	770.1	770.3	769.8	769.5	769.0	768.7
130°	803.4	804.2	804.4	804.1	803.6	803.3	802.8
132.5°	835.4	836.2	836.3	835.8	835.3	834.7	834.2
135°	883.9	884.4	884.4	883.9	883.2	882.6	882.1
137.5°	927.5	928.4	928.6	928.3	927.9	927.5	927.1
140°	954.8	955.6	955.7	955.3	954.9	954.6	954.1
142.5°	980.6	981.2	981.2	980.7	980.2	979.6	979.1
145°	1016.7	1017.2	1017.4	1017.4	1017.4	1017.4	1017.4
147.5°	1049.3	1049.7	1049.5	1048.6	1047.7	1046.7	1045.8
150°	1069.3	1069.7	1069.5	1069.0	1068.4	1067.7	1067.2
152.5°	1087.3	1088.0	1087.9	1087.0	1086.1	1085.2	1084.2
155°	1112.0	1112.9	1112.9	1111.7	1110.5	1109.3	1108.1
157.5°	1133.4	1134.6	1134.4	1132.8	1131.3	1129.8	1128.3
160°	1145.5	1146.7	1146.6	1145.2	1143.8	1142.5	1141.0
162.5°	1156.6	1158.0	1158.1	1156.8	1155.6	1154.4	1153.2
165°	1171.6	1173.2	1173.3	1171.9	1170.5	1169.1	1167.8
167.5°	1183.0	1184.5	1184.5	1183.0	1181.4	1179.8	1178.2
170°	1189.5	1191.0	1191.0	1189.5	1187.8	1186.2	1184.6
172.5°	1193.6	1195.2	1195.2	1193.5	1191.7	1190.0	1188.2
175°	1198.6	1200.0	1199.9	1198.3	1196.8	1195.2	1193.6
177.5°	1200.4	1201.7	1201.5	1199.9	1198.4	1196.8	1195.2
180°	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0	1198.0

(END OF REPORT)