

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: P332027-830

Luminaire Tested: **S123DIP-S1000D1025U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332027-830
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-S1000D1025U830-4F0-1E-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: 7860.8 lumens
Efficiency: N/A
Efficacy: 129.9 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

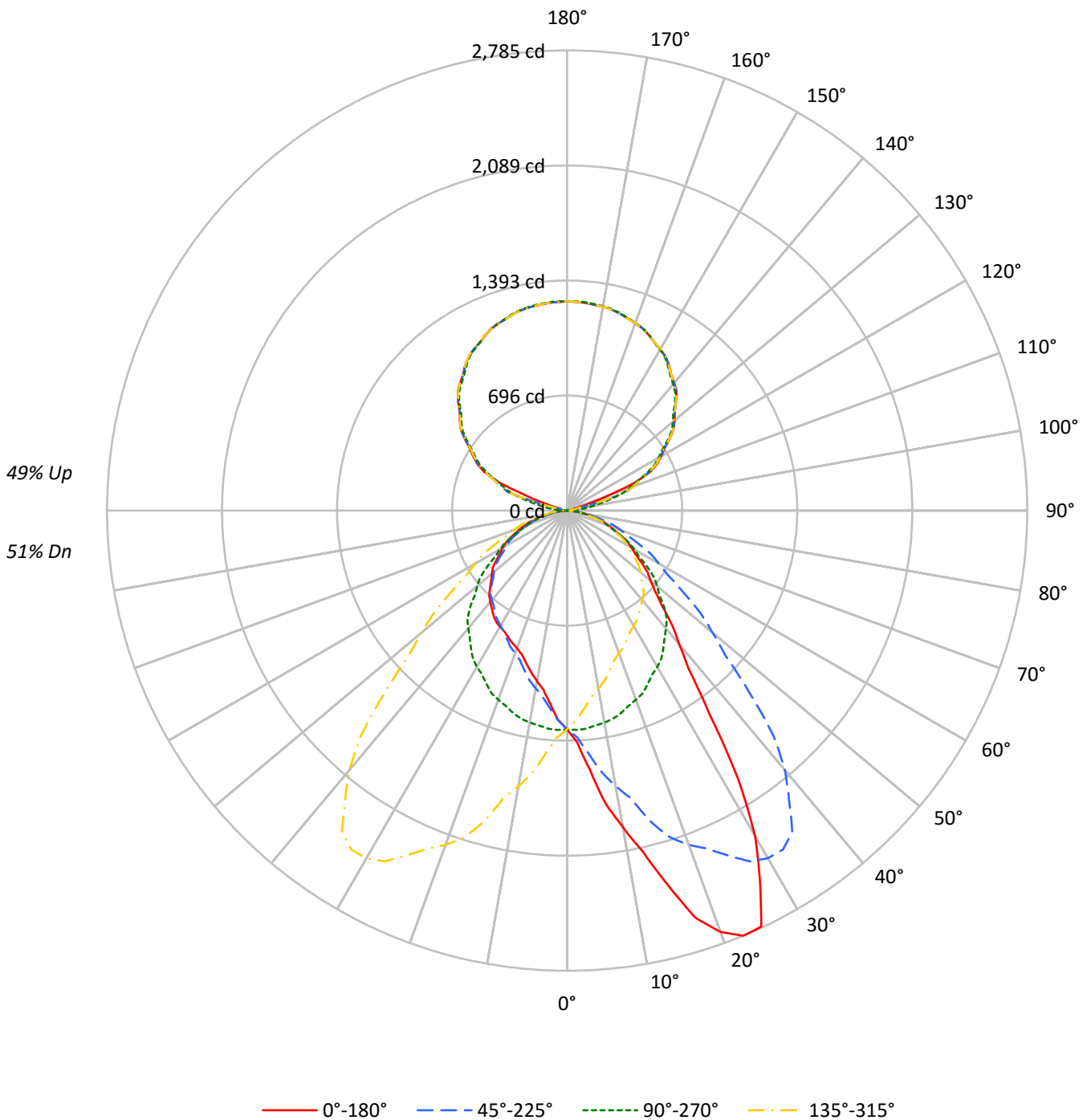
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14249	14249	14249	14249
5°	16993	14311	12682	14311
10°	21270	14238	11455	14238
15°	26088	14123	10664	14123
20°	31078	13945	10153	13945
25°	32999	13726	10041	13726
30°	28285	13569	10092	13569
35°	19671	13341	10198	13341
40°	14816	13078	10166	13078
45°	12301	12683	10036	12683
50°	11020	11879	9945	11879
55°	10303	11012	9822	11012
60°	9664	10107	9722	10107
65°	9085	9212	9411	9212
70°	8519	8195	8960	8195
75°	7627	7178	8218	7178
80°	6676	5883	7073	5883
85°	5224	4273	4755	4273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.7
10°-20°	418.2	5.3
20°-30°	701.8	8.9
30°-40°	794.6	10.1
40°-50°	712.6	9.1
50°-60°	575.1	7.3
60°-70°	400.7	5.1
70°-80°	210.6	2.7
80°-90°	55.1	0.7
90°-100°	46.0	0.6
100°-110°	219.4	2.8
110°-120°	527.0	6.7
120°-130°	671.1	8.5
130°-140°	717.1	9.1
140°-150°	670.6	8.5
150°-160°	540.9	6.9
160°-170°	349.1	4.4
170°-180°	120.3	1.5
0°-30°	1250.4	15.9
0°-40°	2045.0	26.0
0°-60°	3332.7	42.4
0°-90°	3999.1	50.9
90°-120°	792.5	10.1
90°-150°	2851.3	36.3
90°-180°	3862.0	49.1
0°-180°	7860.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1573	1324	1174	1324	1573	163
15°	2341	1267	957	1267	2341	676
25°	2778	1156	845	1156	2778	1219
35°	1497	1015	776	1015	1497	973
45°	808	833	659	833	808	640
55°	549	587	523	587	549	493
65°	357	362	370	362	357	355
75°	183	173	198	173	183	196
85°	42	35	38	35	42	51
90°	28	1	28	1	28	15
95°	36	57	36	57	36	30
105°	41	280	41	280	41	95
115°	553	526	553	526	553	511
125°	756	741	756	741	756	675
135°	932	923	932	923	932	719
145°	1075	1065	1075	1065	1075	671
155°	1171	1173	1171	1173	1171	540
165°	1234	1237	1234	1237	1234	349
175°	1262	1266	1262	1266	1262	120
180°	1266	1266	1266	1266	1266	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1404.9	1403.9	1401.3	1403.4	1399.3	1393.6	1393.1	1388.0	1373.1	1372.1	1368.0
5°	1572.7	1567.5	1566.9	1566.3	1557.3	1545.1	1522.0	1520.1	1489.3	1473.9	1455.3
7.5°	1790.0	1792.7	1783.3	1775.1	1747.7	1729.6	1704.8	1673.1	1635.3	1596.9	1571.4
10°	1946.0	1967.2	1940.9	1922.9	1906.2	1874.8	1838.2	1792.7	1747.2	1693.9	1653.5
12.5°	2113.3	2123.6	2118.4	2101.5	2075.6	2027.7	1962.9	1912.8	1870.9	1782.2	1746.3
15°	2341.1	2380.2	2355.2	2297.4	2298.8	2253.2	2168.5	2075.6	2026.2	1948.5	1842.8
17.5°	2583.8	2588.7	2578.0	2529.9	2497.8	2435.2	2357.1	2267.9	2167.9	2074.0	1961.8
20°	2713.1	2709.2	2686.8	2661.7	2606.6	2557.9	2472.6	2373.1	2244.9	2152.5	2030.0
22.5°	2784.9	2778.5	2767.9	2746.9	2701.0	2648.7	2572.1	2463.4	2341.4	2214.1	2072.6
25°	2778.5	2786.8	2788.1	2782.4	2766.4	2734.9	2674.6	2588.0	2466.2	2302.6	2155.1
27.5°	2527.1	2538.9	2573.1	2603.6	2637.5	2672.2	2667.6	2624.6	2534.4	2393.1	2212.8
30°	2275.7	2250.0	2313.5	2393.7	2448.2	2544.4	2598.3	2601.5	2550.8	2429.6	2253.8
32.5°	1926.7	1954.9	1983.0	2081.7	2200.8	2308.9	2416.1	2502.5	2512.3	2431.7	2277.9
35°	1497.0	1532.3	1583.6	1634.9	1763.2	1873.5	2062.1	2226.3	2357.1	2374.5	2280.1
37.5°	1206.4	1223.8	1256.2	1307.7	1391.6	1522.4	1668.3	1875.8	2065.4	2206.4	2212.5
40°	1054.4	1059.6	1096.2	1135.3	1203.2	1311.0	1442.5	1625.9	1852.9	2049.9	2132.0
42.5°	940.6	951.8	967.3	1004.9	1059.0	1140.1	1262.3	1414.0	1622.1	1848.7	2009.3
45°	808.1	821.0	830.6	855.6	894.1	948.6	1034.0	1172.4	1330.9	1565.0	1781.1
47.5°	720.7	721.7	728.9	747.7	773.9	814.8	875.2	964.1	1109.6	1299.5	1521.4
50°	658.1	668.4	670.9	685.6	706.2	736.3	786.4	862.0	981.4	1148.1	1352.1
52.5°	614.0	617.0	624.2	634.9	652.8	676.3	719.6	778.9	872.5	1014.6	1202.2
55°	549.0	549.0	556.1	564.4	574.7	595.9	624.7	668.4	739.5	849.9	1005.0
57.5°	489.0	492.2	497.2	499.7	508.5	522.5	546.6	579.7	632.8	717.7	841.1
60°	448.9	454.8	454.1	459.2	466.9	477.9	498.3	525.3	572.8	640.7	744.7
62.5°	414.1	413.7	413.6	419.7	427.4	437.8	451.2	474.5	514.8	575.0	663.5
65°	356.7	355.3	359.9	363.6	366.3	373.9	384.2	404.7	431.7	476.5	545.2
67.5°	305.6	301.8	304.3	305.6	309.9	315.9	325.6	338.3	359.7	395.8	447.4
70°	270.7	267.5	266.8	268.1	271.9	276.4	283.5	295.7	315.6	344.4	382.3
72.5°	234.8	232.5	232.4	235.3	237.0	240.0	245.0	256.2	271.9	293.6	328.9
75°	183.4	183.4	183.4	184.1	186.0	188.6	192.4	198.2	210.4	225.7	249.5
77.5°	137.5	137.4	136.6	136.5	139.3	140.4	141.4	146.8	153.5	163.9	181.3
80°	107.7	104.5	105.8	107.7	109.1	109.7	111.6	112.9	118.7	124.4	136.6
82.5°	80.0	77.4	77.6	80.6	80.8	81.4	83.4	85.2	87.4	92.7	99.2
85°	42.3	42.3	43.0	43.0	43.6	43.0	44.9	45.5	45.5	48.7	52.6
87.5°	21.0	19.9	20.4	20.8	20.2	20.5	20.9	21.3	21.6	22.0	22.0
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8	25.4	24.1	22.1
95°	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0	30.6	29.1	26.9
97.5°	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6	32.0	30.3	45.3
100°	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4	32.7	31.0	63.6
102.5°	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6	56.7	61.9	97.6
105°	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1	169.0	206.0	224.9
107.5°	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4	350.5	377.7	374.7
110°	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5	417.4	424.3	422.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9	471.8	471.7	469.4
115°	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2	542.2	540.0	538.1
117.5°	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6	607.9	606.2	605.3
120°	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5	650.8	649.1	648.6
122.5°	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4	693.2	692.0	691.3
125°	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5	753.1	752.6	751.8
127.5°	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7	812.0	811.3	810.3
130°	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4	847.5	846.7	845.8
132.5°	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2	881.5	880.6	880.0
135°	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6	932.9	932.4	931.5
137.5°	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3	978.3	977.3	976.9
140°	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3	1007.5	1006.6	1006.1
142.5°	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9	1035.2	1034.5	1033.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3	1073.8	1073.5	1073.0
147.5°	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7	1108.3	1107.9	1107.5
150°	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8	1129.4	1129.0	1128.5
152.5°	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5	1147.7	1147.0	1146.8
155°	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3	1173.3	1172.2	1172.1
157.5°	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7	1195.5	1194.2	1194.5
160°	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6	1208.3	1207.0	1207.2
162.5°	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2	1219.7	1218.3	1218.5
165°	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7	1235.0	1233.4	1233.6
167.5°	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4	1245.4
170°	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2	1252.2
172.5°	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1	1258.4	1256.7	1256.5
175°	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5	1264.0	1262.5	1262.3
177.5°	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4	1266.1	1264.8	1264.6
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1364.9	1360.7	1356.7	1349.5	1343.3	1334.6	1332.0	1329.0	1319.7	1311.5	1305.3
5°	1448.2	1432.9	1410.4	1389.9	1373.2	1350.8	1337.9	1324.5	1305.2	1287.9	1273.8
7.5°	1535.5	1505.2	1470.4	1432.6	1397.5	1363.6	1336.2	1311.9	1285.0	1259.4	1239.5
10°	1604.8	1561.1	1512.4	1459.8	1414.9	1371.3	1334.7	1302.7	1268.0	1237.8	1212.9
12.5°	1683.8	1619.1	1551.9	1488.0	1434.9	1374.4	1330.1	1289.3	1250.1	1213.8	1185.7
15°	1777.3	1695.2	1615.7	1527.8	1447.0	1371.3	1318.7	1267.4	1221.8	1184.7	1148.8
17.5°	1862.5	1769.4	1664.6	1557.8	1460.3	1370.6	1296.9	1238.9	1181.9	1136.4	1100.6
20°	1910.7	1804.9	1686.2	1575.3	1467.5	1367.4	1286.7	1217.4	1155.7	1107.7	1067.2
22.5°	1952.3	1828.4	1705.7	1587.1	1467.0	1359.2	1267.6	1196.4	1129.6	1082.5	1039.5
25°	1995.4	1847.2	1724.1	1584.9	1450.9	1339.3	1236.6	1155.7	1089.1	1034.0	989.7
27.5°	2032.3	1846.0	1699.8	1550.1	1425.4	1313.5	1204.0	1117.3	1046.5	986.6	941.7
30°	2056.9	1848.5	1674.7	1526.5	1400.8	1285.3	1178.8	1091.7	1017.3	956.3	914.0
32.5°	2072.4	1846.9	1651.6	1493.6	1361.8	1259.7	1151.7	1061.4	985.0	925.0	884.2
35°	2081.3	1835.7	1611.8	1425.8	1298.8	1199.4	1109.0	1015.3	935.2	879.4	833.2
37.5°	2063.3	1811.9	1565.7	1360.4	1221.3	1123.4	1047.4	967.6	890.9	829.4	789.7
40°	2035.1	1796.6	1529.7	1314.2	1168.0	1073.7	1008.9	930.7	855.0	796.6	759.4
42.5°	1981.2	1765.2	1490.3	1262.9	1112.6	1018.2	958.7	893.2	821.6	766.9	729.6
45°	1849.7	1697.1	1431.0	1185.9	1030.7	933.2	880.6	833.2	768.4	715.1	683.1
47.5°	1667.4	1594.6	1345.3	1104.8	945.3	851.5	796.8	758.7	711.3	668.4	637.5
50°	1540.6	1510.5	1287.2	1049.3	888.3	796.6	744.0	709.4	675.4	632.4	604.2
52.5°	1394.4	1413.0	1219.6	991.8	830.4	740.2	690.7	663.2	632.3	597.0	572.4
55°	1188.5	1255.8	1102.6	895.4	744.0	658.1	611.2	586.8	568.9	542.6	521.4
57.5°	995.7	1081.4	976.1	796.0	659.2	585.0	540.2	513.6	502.1	488.3	471.6
60°	881.3	965.9	885.8	729.2	602.3	531.7	491.9	469.5	458.0	448.4	434.2
62.5°	779.2	864.9	797.5	661.6	546.3	480.9	446.3	424.3	415.4	410.4	398.3
65°	638.9	712.6	667.7	556.1	466.3	408.6	377.1	361.7	353.5	351.5	343.7
67.5°	519.9	576.1	543.4	461.3	390.6	340.7	314.1	301.0	294.5	293.9	288.1
70°	442.0	494.6	469.5	395.1	334.1	295.0	271.9	260.4	256.6	255.9	252.7
72.5°	381.4	418.0	398.1	336.1	289.0	253.4	236.6	224.5	220.1	221.0	218.9
75°	282.2	309.8	298.2	255.2	217.4	194.4	180.2	172.6	168.7	170.6	168.1
77.5°	203.0	220.6	210.1	180.4	157.0	140.3	130.0	125.2	121.8	121.6	120.5
80°	153.3	163.5	157.8	139.8	120.6	106.5	98.1	94.9	93.0	92.4	91.7
82.5°	109.1	117.9	111.1	98.8	85.7	77.2	72.5	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.1	43.0	39.1	36.6	34.6	33.4	34.0	32.7
87.5°	22.4	22.3	20.3	17.8	16.3	14.3	13.9	12.5	11.9	12.3	12.3
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5	16.9	16.3	15.7
95°	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4	48.8	40.2	31.7
97.5°	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4	111.5	107.6	103.8
100°	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0	163.2	167.4	171.5
102.5°	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7	211.7	214.7	217.7
105°	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3	282.7	284.9	287.3
107.5°	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0	357.9	359.7	361.6
110°	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4	408.1	409.7	411.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6	456.1	457.6	459.1
115°	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9	527.2	528.4	529.7
117.5°	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9	596.5	598.0	599.6
120°	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8	639.7	641.6	643.5
122.5°	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6	683.1	684.6	686.2
125°	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3	743.0	744.7	746.4
127.5°	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3	801.0	802.7	804.3
130°	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5	837.1	838.8	840.5
132.5°	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1	871.8	873.4	875.1
135°	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9	924.2	925.4	926.7
137.5°	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1	969.7	971.3	972.9
140°	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2	999.5	1000.7	1001.9
142.5°	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1	1027.3	1028.5	1029.8
145°	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0	1066.5	1067.9	1069.4
147.5°	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6	1102.7	1103.6	1104.6
150°	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3	1124.9	1125.5	1126.1
152.5°	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5	1144.9	1145.2	1145.5
155°	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2	1172.7	1172.3	1172.0
157.5°	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3	1195.3	1195.3	1195.2
160°	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9	1208.7	1208.5	1208.3
162.5°	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7	1221.2	1220.6	1220.1
165°	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2	1236.5	1235.9	1235.3
167.5°	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2	1248.4	1247.5	1246.7
170°	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9	1255.1	1254.3	1253.5
172.5°	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5	1259.5	1258.5	1257.4
175°	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3	1265.3	1264.2	1263.2
177.5°	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8	1267.0	1266.1	1265.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P332027-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1301.7	1298.2	1293.1	1285.3	1279.2	1269.4	1269.4	1271.0	1271.0	1270.5	1269.4
5°	1262.3	1252.6	1241.1	1227.7	1213.5	1199.4	1196.8	1191.8	1187.9	1185.2	1182.0
7.5°	1220.6	1203.5	1186.7	1167.8	1150.7	1136.4	1126.5	1118.3	1113.0	1107.4	1103.3
10°	1192.3	1171.2	1151.3	1131.4	1109.6	1092.3	1081.4	1073.7	1067.9	1062.8	1060.3
12.5°	1159.0	1134.7	1112.9	1093.9	1070.1	1052.3	1041.9	1038.3	1031.5	1020.7	1015.0
15°	1110.2	1087.8	1061.5	1032.6	1021.1	999.3	987.1	981.4	977.5	969.1	966.6
17.5°	1068.6	1039.2	1009.7	988.2	966.7	949.0	942.2	935.0	929.9	923.1	921.1
20°	1035.2	1008.9	981.9	958.8	936.4	917.2	911.4	906.3	901.2	898.0	895.4
22.5°	1001.4	975.1	952.7	931.1	907.2	894.6	888.3	882.7	879.1	876.9	874.3
25°	953.8	930.7	905.7	886.4	867.1	858.8	855.0	851.8	849.2	846.0	845.4
27.5°	911.2	886.0	865.7	847.8	834.0	827.0	823.3	821.7	822.3	823.4	824.2
30°	879.4	856.3	839.6	824.2	811.3	804.9	804.3	804.3	806.9	807.5	808.8
32.5°	850.1	831.1	814.5	799.6	789.9	785.4	787.9	787.9	789.9	791.6	793.9
35°	807.5	790.8	778.0	765.2	756.9	758.7	760.1	761.3	764.5	768.4	771.0
37.5°	766.9	752.3	739.0	729.0	725.2	728.6	731.7	734.4	738.1	741.0	743.7
40°	737.6	726.7	713.9	704.9	706.2	708.1	710.7	713.9	717.1	719.0	721.6
42.5°	710.4	699.0	689.3	681.8	683.6	686.1	687.6	689.3	693.0	696.4	698.0
45°	669.0	660.0	651.0	646.5	647.8	649.1	650.4	652.3	655.5	658.1	658.7
47.5°	622.4	616.1	610.1	605.8	607.8	607.3	609.0	613.0	614.1	615.6	619.2
50°	592.7	586.8	579.9	578.5	578.5	578.5	579.2	584.3	584.3	586.8	589.5
52.5°	559.8	556.1	551.6	549.3	548.3	548.3	550.9	553.6	554.6	558.2	560.7
55°	511.2	507.4	503.5	501.5	500.3	501.5	506.7	507.9	511.2	513.1	515.0
57.5°	460.5	457.6	454.5	453.5	453.2	454.9	457.7	461.6	462.3	468.3	471.2
60°	427.2	422.6	420.1	420.1	418.9	424.6	423.3	429.7	431.0	434.9	439.3
62.5°	392.8	386.7	385.7	385.7	387.6	389.2	391.0	393.8	397.2	402.0	405.5
65°	337.3	334.1	338.7	338.0	336.8	340.5	340.5	343.7	347.6	352.1	359.2
67.5°	284.9	283.2	283.6	283.6	285.6	287.8	289.5	292.4	297.0	301.7	306.3
70°	249.5	251.5	248.3	250.8	252.7	253.4	254.7	258.4	263.6	266.8	271.9
72.5°	215.1	215.0	215.4	216.4	218.3	219.5	220.7	225.2	230.7	233.5	237.6
75°	165.5	164.9	166.7	166.7	169.9	171.3	172.6	174.5	179.6	183.4	186.6
77.5°	120.8	121.6	121.2	123.4	122.5	122.7	126.8	128.7	129.2	136.8	138.5
80°	91.0	92.4	93.0	93.7	94.3	93.0	97.5	99.4	99.4	103.9	107.1
82.5°	65.4	66.2	67.9	68.5	68.6	69.9	70.3	71.7	73.2	75.2	79.4
85°	32.7	34.6	35.3	34.6	35.3	34.0	35.9	36.6	37.2	37.2	37.2
87.5°	12.2	13.1	13.1	14.2	14.2	15.3	15.5	14.6	14.8	16.5	14.5
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8	28.1	29.4	30.3
95°	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0	33.6	35.1	35.7
97.5°	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6	35.3	36.9	37.9
100°	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4	36.1	37.7	38.6
102.5°	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6	46.4	41.2	38.7
105°	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1	95.0	58.1	39.7
107.5°	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4	296.2	269.1	241.6
110°	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5	403.6	396.7	378.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9	472.1	472.2	469.1
115°	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2	546.3	548.4	549.9
117.5°	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6	611.2	612.9	613.9
120°	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5	654.1	655.8	656.7
122.5°	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4	695.6	696.7	697.4
125°	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5	753.8	754.3	754.7
127.5°	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7	813.3	814.0	814.2
130°	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4	849.2	850.1	850.3
132.5°	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2	883.1	883.9	884.0
135°	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6	934.2	934.8	934.8
137.5°	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3	980.3	981.3	981.6
140°	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3	1009.2	1010.0	1010.2
142.5°	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9	1036.5	1037.2	1037.2
145°	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3	1074.7	1075.2	1075.3
147.5°	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7	1109.1	1109.6	1109.3
150°	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8	1130.2	1130.7	1130.5
152.5°	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5	1149.2	1150.0	1149.9
155°	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3	1175.4	1176.4	1176.3
157.5°	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7	1198.0	1199.3	1199.1
160°	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6	1210.8	1212.0	1211.9
162.5°	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2	1222.6	1224.0	1224.1
165°	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7	1238.4	1240.1	1240.2
167.5°	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1
170°	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9
172.5°	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1	1261.7	1263.4	1263.3
175°	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5	1267.0	1268.4	1268.3
177.5°	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4	1268.9	1270.2	1270.0
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1265.8	1265.4	1268.9	1266.4	1268.9	1265.4	1265.8	1269.4	1270.5	1271.0	1271.0
5°	1178.3	1180.2	1173.7	1173.7	1173.7	1180.2	1178.3	1182.0	1185.2	1187.9	1191.8
7.5°	1100.2	1097.4	1097.7	1094.2	1097.7	1097.4	1100.2	1103.3	1107.4	1113.0	1118.3
10°	1052.5	1048.7	1047.4	1048.0	1047.4	1048.7	1052.5	1060.3	1062.8	1067.9	1073.7
12.5°	1013.0	1012.3	1003.8	1003.9	1003.8	1012.3	1013.0	1015.0	1020.7	1031.5	1038.3
15°	966.6	954.4	953.1	957.0	953.1	954.4	966.6	966.6	969.1	977.5	981.4
17.5°	920.0	913.6	914.0	912.1	914.0	913.6	920.0	921.1	923.1	929.9	935.0
20°	895.4	891.6	890.9	886.4	890.9	891.6	895.4	895.4	898.0	901.2	906.3
22.5°	872.8	871.6	871.9	867.0	871.9	871.6	872.8	874.3	876.9	879.1	882.7
25°	844.7	847.9	845.4	845.4	845.4	847.9	844.7	845.4	846.0	849.2	851.8
27.5°	825.8	825.6	824.3	824.3	824.3	825.6	825.8	824.2	823.4	822.3	821.7
30°	811.3	810.7	812.0	812.0	812.0	810.7	811.3	808.8	807.5	806.9	804.3
32.5°	797.0	797.9	798.1	798.6	798.1	797.9	797.0	793.9	791.6	789.9	787.9
35°	774.8	775.4	777.4	776.1	777.4	775.4	774.8	771.0	768.4	764.5	761.3
37.5°	744.8	747.7	747.1	748.1	747.1	747.7	744.8	743.7	741.0	738.1	734.4
40°	722.2	724.2	723.5	723.5	723.5	724.2	722.2	721.6	719.0	717.1	713.9
42.5°	699.1	700.5	698.9	697.9	698.9	700.5	699.1	698.0	696.4	693.0	689.3
45°	661.3	660.0	661.9	659.3	661.9	660.0	661.3	658.7	658.1	655.5	652.3
47.5°	619.0	620.2	620.8	622.6	620.8	620.2	619.0	619.2	615.6	614.1	613.0
50°	590.7	594.6	594.6	593.9	594.6	594.6	590.7	589.5	586.8	584.3	584.3
52.5°	563.0	564.8	567.4	567.2	567.4	564.8	563.0	560.7	558.2	554.6	553.6
55°	520.2	521.4	522.7	523.4	522.7	521.4	520.2	515.0	513.1	511.2	507.9
57.5°	475.8	475.2	478.3	479.3	478.3	475.2	475.8	471.2	468.3	462.3	461.6
60°	444.5	444.5	449.6	451.6	449.6	444.5	444.5	439.3	434.9	431.0	429.7
62.5°	411.1	413.2	418.3	415.7	418.3	413.2	411.1	405.5	402.0	397.2	393.8
65°	362.4	367.5	366.8	369.5	366.8	367.5	362.4	359.2	352.1	347.6	343.7
67.5°	311.4	314.6	319.2	319.7	319.2	314.6	311.4	306.3	301.7	297.0	292.4
70°	277.1	280.3	282.9	284.7	282.9	280.3	277.1	271.9	266.8	263.6	258.4
72.5°	243.7	245.4	251.6	248.8	251.6	245.4	243.7	237.6	233.5	230.7	225.2
75°	191.1	195.6	199.4	197.6	199.4	195.6	191.1	186.6	183.4	179.6	174.5
77.5°	141.4	145.8	147.6	146.0	147.6	145.8	141.4	138.5	136.8	129.2	128.7
80°	111.6	110.9	114.8	114.1	114.8	110.9	111.6	107.1	103.9	99.4	99.4
82.5°	81.8	81.2	83.0	83.4	83.0	81.2	81.8	79.4	75.2	73.2	71.7
85°	39.8	41.7	39.1	38.5	39.1	41.7	39.8	37.2	37.2	37.2	36.6
87.5°	14.6	14.7	14.3	13.9	14.3	14.7	14.6	14.5	16.5	14.8	14.6
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	30.4	30.7	31.0	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8
95°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0
97.5°	38.2	38.4	38.5	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6
100°	38.9	39.1	39.3	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4
102.5°	39.1	39.5	39.9	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6
105°	40.2	40.5	41.0	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1
107.5°	213.7	185.8	157.9	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4
110°	348.4	318.5	288.6	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	462.8	456.5	450.2	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9
115°	550.6	551.5	552.3	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2
117.5°	614.1	614.2	614.3	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6
120°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5
122.5°	697.6	697.8	697.9	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4
125°	755.2	755.5	756.0	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5
127.5°	813.7	813.3	812.8	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7
130°	849.9	849.4	849.0	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4
132.5°	883.4	882.9	882.3	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2
135°	934.2	933.6	932.9	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6
137.5°	981.2	980.8	980.3	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3
140°	1009.7	1009.4	1009.0	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3
142.5°	1036.6	1036.0	1035.5	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3
147.5°	1108.3	1107.4	1106.4	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7
150°	1129.9	1129.3	1128.6	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8
152.5°	1149.0	1148.0	1147.1	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5
155°	1175.1	1173.8	1172.5	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3
157.5°	1197.4	1195.8	1194.2	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7
160°	1210.5	1209.0	1207.6	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6
162.5°	1222.8	1221.4	1220.2	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2
165°	1238.7	1237.3	1235.8	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7
167.5°	1250.5	1248.8	1247.1	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8
170°	1257.3	1255.6	1253.9	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6
172.5°	1261.5	1259.6	1257.8	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1
175°	1266.6	1265.0	1263.3	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5
177.5°	1268.3	1266.7	1265.0	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1269.4	1269.4	1279.2	1285.3	1293.1	1298.2	1301.7	1305.3	1311.5	1319.7	1329.0
5°	1196.8	1199.4	1213.5	1227.7	1241.1	1252.6	1262.3	1273.8	1287.9	1305.2	1324.5
7.5°	1126.5	1136.4	1150.7	1167.8	1186.7	1203.5	1220.6	1239.5	1259.4	1285.0	1311.9
10°	1081.4	1092.3	1109.6	1131.4	1151.3	1171.2	1192.3	1212.9	1237.8	1268.0	1302.7
12.5°	1041.9	1052.3	1070.1	1093.9	1112.9	1134.7	1159.0	1185.7	1213.8	1250.1	1289.3
15°	987.1	999.3	1021.1	1032.6	1061.5	1087.8	1110.2	1148.8	1184.7	1221.8	1267.4
17.5°	942.2	949.0	966.7	988.2	1009.7	1039.2	1068.6	1100.6	1136.4	1181.9	1238.9
20°	911.4	917.2	936.4	958.8	981.9	1008.9	1035.2	1067.2	1107.7	1155.7	1217.4
22.5°	888.3	894.6	907.2	931.1	952.7	975.1	1001.4	1039.5	1082.5	1129.6	1196.4
25°	855.0	858.8	867.1	886.4	905.7	930.7	953.8	989.7	1034.0	1089.1	1155.7
27.5°	823.3	827.0	834.0	847.8	865.7	886.0	911.2	941.7	986.6	1046.5	1117.3
30°	804.3	804.9	811.3	824.2	839.6	856.3	879.4	914.0	956.3	1017.3	1091.7
32.5°	787.9	785.4	789.9	799.6	814.5	831.1	850.1	884.2	925.0	985.0	1061.4
35°	760.1	758.7	756.9	765.2	778.0	790.8	807.5	833.2	879.4	935.2	1015.3
37.5°	731.7	728.6	725.2	729.0	739.0	752.3	766.9	789.7	829.4	890.9	967.6
40°	710.7	708.1	706.2	704.9	713.9	726.7	737.6	759.4	796.6	855.0	930.7
42.5°	687.6	686.1	683.6	681.8	689.3	699.0	710.4	729.6	766.9	821.6	893.2
45°	650.4	649.1	647.8	646.5	651.0	660.0	669.0	683.1	715.1	768.4	833.2
47.5°	609.0	607.3	607.8	605.8	610.1	616.1	622.4	637.5	668.4	711.3	758.7
50°	579.2	578.5	578.5	578.5	579.9	586.8	592.7	604.2	632.4	675.4	709.4
52.5°	550.9	548.3	548.3	549.3	551.6	556.1	559.8	572.4	597.0	632.3	663.2
55°	506.7	501.5	500.3	501.5	503.5	507.4	511.2	521.4	542.6	568.9	586.8
57.5°	457.7	454.9	453.2	453.5	454.5	457.6	460.5	471.6	488.3	502.1	513.6
60°	423.3	424.6	418.9	420.1	420.1	422.6	427.2	434.2	448.4	458.0	469.5
62.5°	391.0	389.2	387.6	385.7	385.7	386.7	392.8	398.3	410.4	415.4	424.3
65°	340.5	340.5	336.8	338.0	338.7	334.1	337.3	343.7	351.5	353.5	361.7
67.5°	289.5	287.8	285.6	283.6	283.6	283.2	284.9	288.1	293.9	294.5	301.0
70°	254.7	253.4	252.7	250.8	248.3	251.5	249.5	252.7	255.9	256.6	260.4
72.5°	220.7	219.5	218.3	216.4	215.4	215.0	215.1	218.9	221.0	220.1	224.5
75°	172.6	171.3	169.9	166.7	166.7	164.9	165.5	168.1	170.6	168.7	172.6
77.5°	126.8	122.7	122.5	123.4	121.2	121.6	120.8	120.5	121.6	121.8	125.2
80°	97.5	93.0	94.3	93.7	93.0	92.4	91.0	91.7	92.4	93.0	94.9
82.5°	70.3	69.9	68.6	68.5	67.9	66.2	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.3	34.6	35.3	34.6	32.7	32.7	34.0	33.4	34.6
87.5°	15.5	15.3	14.2	14.2	13.1	13.1	12.2	12.3	12.3	11.9	12.5
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	25.4	24.1	22.1	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5
95°	30.6	29.1	26.9	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4
97.5°	32.0	30.3	45.3	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4
100°	32.7	31.0	63.6	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0
102.5°	56.7	61.9	97.6	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7
105°	169.0	206.0	224.9	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3
107.5°	350.5	377.7	374.7	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0
110°	417.4	424.3	422.0	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	471.8	471.7	469.4	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6
115°	542.2	540.0	538.1	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9
117.5°	607.9	606.2	605.3	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9
120°	650.8	649.1	648.6	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8
122.5°	693.2	692.0	691.3	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6
125°	753.1	752.6	751.8	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3
127.5°	812.0	811.3	810.3	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3
130°	847.5	846.7	845.8	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5
132.5°	881.5	880.6	880.0	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1
135°	932.9	932.4	931.5	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9
137.5°	978.3	977.3	976.9	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1
140°	1007.5	1006.6	1006.1	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2
142.5°	1035.2	1034.5	1033.9	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1
145°	1073.8	1073.5	1073.0	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0
147.5°	1108.3	1107.9	1107.5	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6
150°	1129.4	1129.0	1128.5	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3
152.5°	1147.7	1147.0	1146.8	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5
155°	1173.3	1172.2	1172.1	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2
157.5°	1195.5	1194.2	1194.5	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3
160°	1208.3	1207.0	1207.2	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9
162.5°	1219.7	1218.3	1218.5	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7
165°	1235.0	1233.4	1233.6	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2
167.5°	1247.1	1245.4	1245.4	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2
170°	1253.9	1252.2	1252.2	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9
172.5°	1258.4	1256.7	1256.5	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5
175°	1264.0	1262.5	1262.3	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3
177.5°	1266.1	1264.8	1264.6	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1332.0	1334.6	1343.3	1349.5	1356.7	1360.7	1364.9	1368.0	1372.1	1373.1	1388.0
5°	1337.9	1350.8	1373.2	1389.9	1410.4	1432.9	1448.2	1455.3	1473.9	1489.3	1520.1
7.5°	1336.2	1363.6	1397.5	1432.6	1470.4	1505.2	1535.5	1571.4	1596.9	1635.3	1673.1
10°	1334.7	1371.3	1414.9	1459.8	1512.4	1561.1	1604.8	1653.5	1693.9	1747.2	1792.7
12.5°	1330.1	1374.4	1434.9	1488.0	1551.9	1619.1	1683.8	1746.3	1782.2	1870.9	1912.8
15°	1318.7	1371.3	1447.0	1527.8	1615.7	1695.2	1777.3	1842.8	1948.5	2026.2	2075.6
17.5°	1296.9	1370.6	1460.3	1557.8	1664.6	1769.4	1862.5	1961.8	2074.0	2167.9	2267.9
20°	1286.7	1367.4	1467.5	1575.3	1686.2	1804.9	1910.7	2030.0	2152.5	2244.9	2373.1
22.5°	1267.6	1359.2	1467.0	1587.1	1705.7	1828.4	1952.3	2072.6	2214.1	2341.4	2463.4
25°	1236.6	1339.3	1450.9	1584.9	1724.1	1847.2	1995.4	2155.1	2302.6	2466.2	2588.0
27.5°	1204.0	1313.5	1425.4	1550.1	1699.8	1846.0	2032.3	2212.8	2393.1	2534.4	2624.6
30°	1178.8	1285.3	1400.8	1526.5	1674.7	1848.5	2056.9	2253.8	2429.6	2550.8	2601.5
32.5°	1151.7	1259.7	1361.8	1493.6	1651.6	1846.9	2072.4	2277.9	2431.7	2512.3	2502.5
35°	1109.0	1199.4	1298.8	1425.8	1611.8	1835.7	2081.3	2280.1	2374.5	2357.1	2226.3
37.5°	1047.4	1123.4	1221.3	1360.4	1565.7	1811.9	2063.3	2212.5	2206.4	2065.4	1875.8
40°	1008.9	1073.7	1168.0	1314.2	1529.7	1796.6	2035.1	2132.0	2049.9	1852.9	1625.9
42.5°	958.7	1018.2	1112.6	1262.9	1490.3	1765.2	1981.2	2009.3	1848.7	1622.1	1414.0
45°	880.6	933.2	1030.7	1185.9	1431.0	1697.1	1849.7	1781.1	1565.0	1330.9	1172.4
47.5°	796.8	851.5	945.3	1104.8	1345.3	1594.6	1667.4	1521.4	1299.5	1109.6	964.1
50°	744.0	796.6	888.3	1049.3	1287.2	1510.5	1540.6	1352.1	1148.1	981.4	862.0
52.5°	690.7	740.2	830.4	991.8	1219.6	1413.0	1394.4	1202.2	1014.6	872.5	778.9
55°	611.2	658.1	744.0	895.4	1102.6	1255.8	1188.5	1005.0	849.9	739.5	668.4
57.5°	540.2	585.0	659.2	796.0	976.1	1081.4	995.7	841.1	717.7	632.8	579.7
60°	491.9	531.7	602.3	729.2	885.8	965.9	881.3	744.7	640.7	572.8	525.3
62.5°	446.3	480.9	546.3	661.6	797.5	864.9	779.2	663.5	575.0	514.8	474.5
65°	377.1	408.6	466.3	556.1	667.7	712.6	638.9	545.2	476.5	431.7	404.7
67.5°	314.1	340.7	390.6	461.3	543.4	576.1	519.9	447.4	395.8	359.7	338.3
70°	271.9	295.0	334.1	395.1	469.5	494.6	442.0	382.3	344.4	315.6	295.7
72.5°	236.6	253.4	289.0	336.1	398.1	418.0	381.4	328.9	293.6	271.9	256.2
75°	180.2	194.4	217.4	255.2	298.2	309.8	282.2	249.5	225.7	210.4	198.2
77.5°	130.0	140.3	157.0	180.4	210.1	220.6	203.0	181.3	163.9	153.5	146.8
80°	98.1	106.5	120.6	139.8	157.8	163.5	153.3	136.6	124.4	118.7	112.9
82.5°	72.5	77.2	85.7	98.8	111.1	117.9	109.1	99.2	92.7	87.4	85.2
85°	36.6	39.1	43.0	48.1	55.8	58.3	55.1	52.6	48.7	45.5	45.5
87.5°	13.9	14.3	16.3	17.8	20.3	22.3	22.4	22.0	22.0	21.6	21.3
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	16.9	16.3	15.7	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8
95°	48.8	40.2	31.7	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0
97.5°	111.5	107.6	103.8	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6
100°	163.2	167.4	171.5	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4
102.5°	211.7	214.7	217.7	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6
105°	282.7	284.9	287.3	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1
107.5°	357.9	359.7	361.6	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4
110°	408.1	409.7	411.4	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.1	457.6	459.1	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9
115°	527.2	528.4	529.7	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2
117.5°	596.5	598.0	599.6	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6
120°	639.7	641.6	643.5	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5
122.5°	683.1	684.6	686.2	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4
125°	743.0	744.7	746.4	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5
127.5°	801.0	802.7	804.3	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7
130°	837.1	838.8	840.5	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4
132.5°	871.8	873.4	875.1	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2
135°	924.2	925.4	926.7	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6
137.5°	969.7	971.3	972.9	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3
140°	999.5	1000.7	1001.9	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3
142.5°	1027.3	1028.5	1029.8	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9
145°	1066.5	1067.9	1069.4	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3
147.5°	1102.7	1103.6	1104.6	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7
150°	1124.9	1125.5	1126.1	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8
152.5°	1144.9	1145.2	1145.5	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5
155°	1172.7	1172.3	1172.0	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3
157.5°	1195.3	1195.3	1195.2	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7
160°	1208.7	1208.5	1208.3	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6
162.5°	1221.2	1220.6	1220.1	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2
165°	1236.5	1235.9	1235.3	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7
167.5°	1248.4	1247.5	1246.7	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8
170°	1255.1	1254.3	1253.5	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6
172.5°	1259.5	1258.5	1257.4	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1
175°	1265.3	1264.2	1263.2	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5
177.5°	1267.0	1266.1	1265.3	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1393.1	1393.6	1399.3	1403.4	1401.3	1403.9	1404.9
5°	1522.0	1545.1	1557.3	1566.3	1566.9	1567.5	1572.7
7.5°	1704.8	1729.6	1747.7	1775.1	1783.3	1792.7	1790.0
10°	1838.2	1874.8	1906.2	1922.9	1940.9	1967.2	1946.0
12.5°	1962.9	2027.7	2075.6	2101.5	2118.4	2123.6	2113.3
15°	2168.5	2253.2	2298.8	2297.4	2355.2	2380.2	2341.1
17.5°	2357.1	2435.2	2497.8	2529.9	2578.0	2588.7	2583.8
20°	2472.6	2557.9	2606.6	2661.7	2686.8	2709.2	2713.1
22.5°	2572.1	2648.7	2701.0	2746.9	2767.9	2778.5	2784.9
25°	2674.6	2734.9	2766.4	2782.4	2788.1	2786.8	2778.5
27.5°	2667.6	2672.2	2637.5	2603.6	2573.1	2538.9	2527.1
30°	2598.3	2544.4	2448.2	2393.7	2313.5	2250.0	2275.7
32.5°	2416.1	2308.9	2200.8	2081.7	1983.0	1954.9	1926.7
35°	2062.1	1873.5	1763.2	1634.9	1583.6	1532.3	1497.0
37.5°	1668.3	1522.4	1391.6	1307.7	1256.2	1223.8	1206.4
40°	1442.5	1311.0	1203.2	1135.3	1096.2	1059.6	1054.4
42.5°	1262.3	1140.1	1059.0	1004.9	967.3	951.8	940.6
45°	1034.0	948.6	894.1	855.6	830.6	821.0	808.1
47.5°	875.2	814.8	773.9	747.7	728.9	721.7	720.7
50°	786.4	736.3	706.2	685.6	670.9	668.4	658.1
52.5°	719.6	676.3	652.8	634.9	624.2	617.0	614.0
55°	624.7	595.9	574.7	564.4	556.1	549.0	549.0
57.5°	546.6	522.5	508.5	499.7	497.2	492.2	489.0
60°	498.3	477.9	466.9	459.2	454.1	454.8	448.9
62.5°	451.2	437.8	427.4	419.7	413.6	413.7	414.1
65°	384.2	373.9	366.3	363.6	359.9	355.3	356.7
67.5°	325.6	315.9	309.9	305.6	304.3	301.8	305.6
70°	283.5	276.4	271.9	268.1	266.8	267.5	270.7
72.5°	245.0	240.0	237.0	235.3	232.4	232.5	234.8
75°	192.4	188.6	186.0	184.1	183.4	183.4	183.4
77.5°	141.4	140.4	139.3	136.5	136.6	137.4	137.5
80°	111.6	109.7	109.1	107.7	105.8	104.5	107.7
82.5°	83.4	81.4	80.8	80.6	77.6	77.4	80.0
85°	44.9	43.0	43.6	43.0	43.0	42.3	42.3
87.5°	20.9	20.5	20.2	20.8	20.4	19.9	21.0
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	28.1	29.4	30.3	30.4	30.7	31.0	31.2
95°	33.6	35.1	35.7	35.7	35.7	35.7	35.7
97.5°	35.3	36.9	37.9	38.2	38.4	38.5	38.7
100°	36.1	37.7	38.6	38.9	39.1	39.3	39.5
102.5°	46.4	41.2	38.7	39.1	39.5	39.9	40.2
105°	95.0	58.1	39.7	40.2	40.5	41.0	41.4
107.5°	296.2	269.1	241.6	213.7	185.8	157.9	130.0
110°	403.6	396.7	378.3	348.4	318.5	288.6	258.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	472.1	472.2	469.1	462.8	456.5	450.2	443.8
115°	546.3	548.4	549.9	550.6	551.5	552.3	553.2
117.5°	611.2	612.9	613.9	614.1	614.2	614.3	614.5
120°	654.1	655.8	656.7	656.7	656.7	656.7	656.7
122.5°	695.6	696.7	697.4	697.6	697.8	697.9	698.0
125°	753.8	754.3	754.7	755.2	755.5	756.0	756.4
127.5°	813.3	814.0	814.2	813.7	813.3	812.8	812.5
130°	849.2	850.1	850.3	849.9	849.4	849.0	848.6
132.5°	883.1	883.9	884.0	883.4	882.9	882.3	881.7
135°	934.2	934.8	934.8	934.2	933.6	932.9	932.4
137.5°	980.3	981.3	981.6	981.2	980.8	980.3	980.0
140°	1009.2	1010.0	1010.2	1009.7	1009.4	1009.0	1008.5
142.5°	1036.5	1037.2	1037.2	1036.6	1036.0	1035.5	1034.9
145°	1074.7	1075.2	1075.3	1075.3	1075.3	1075.3	1075.3
147.5°	1109.1	1109.6	1109.3	1108.3	1107.4	1106.4	1105.4
150°	1130.2	1130.7	1130.5	1129.9	1129.3	1128.6	1128.0
152.5°	1149.2	1150.0	1149.9	1149.0	1148.0	1147.1	1146.0
155°	1175.4	1176.4	1176.3	1175.1	1173.8	1172.5	1171.3
157.5°	1198.0	1199.3	1199.1	1197.4	1195.8	1194.2	1192.6
160°	1210.8	1212.0	1211.9	1210.5	1209.0	1207.6	1206.1
162.5°	1222.6	1224.0	1224.1	1222.8	1221.4	1220.2	1218.9
165°	1238.4	1240.1	1240.2	1238.7	1237.3	1235.8	1234.4
167.5°	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4
170°	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2
172.5°	1261.7	1263.4	1263.3	1261.5	1259.6	1257.8	1255.9
175°	1267.0	1268.4	1268.3	1266.6	1265.0	1263.3	1261.6
177.5°	1268.9	1270.2	1270.0	1268.3	1266.7	1265.0	1263.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3

(END OF REPORT)