

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: P332036-940

Luminaire Tested: **S123DIP-S1000D1195U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332036-940  
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-S1000D1195U940-4F0-1E-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: 8036.4 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

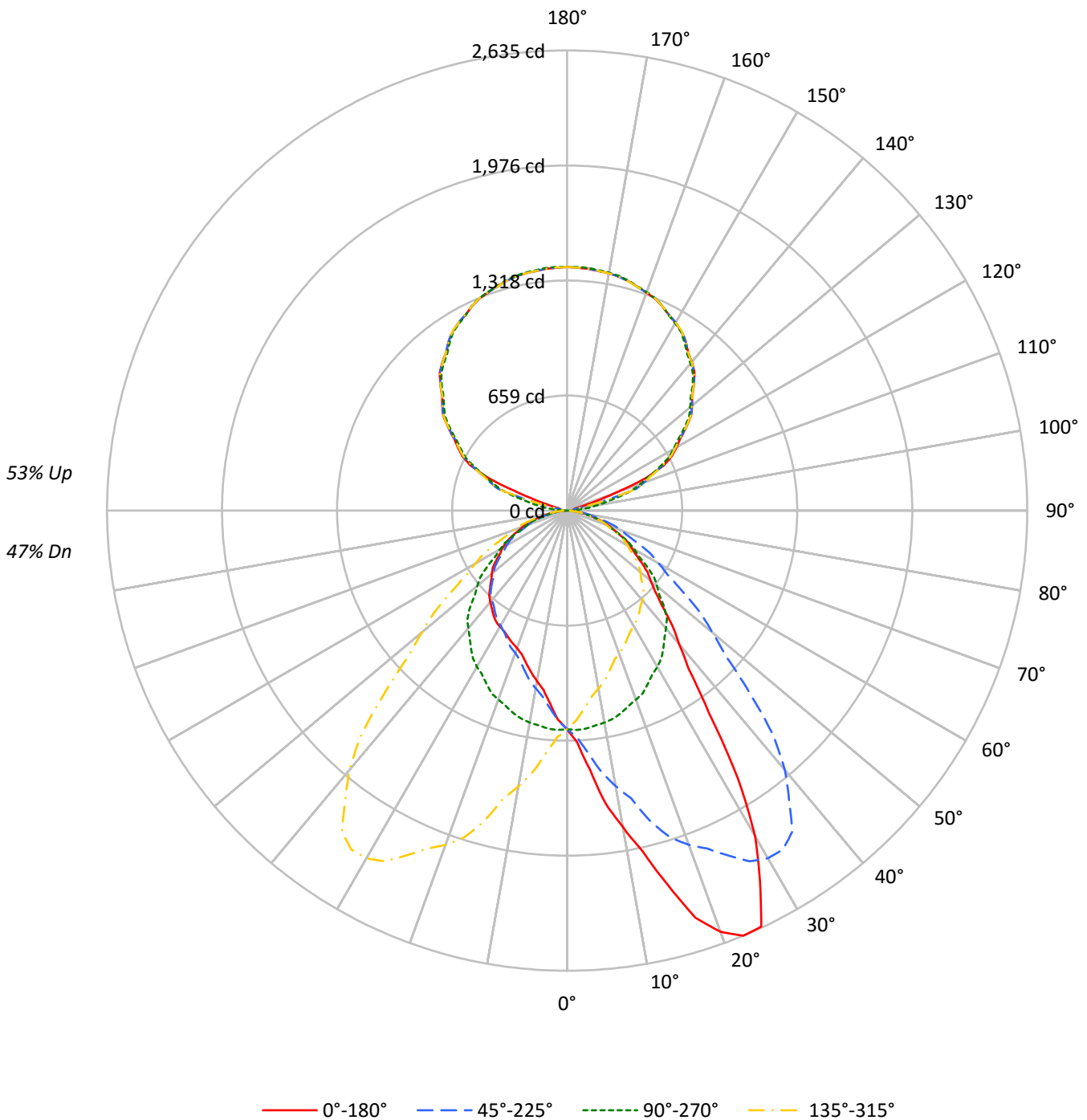
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	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	1.5
10°-20°	395.6	4.9
20°-30°	664.0	8.3
30°-40°	751.8	9.4
40°-50°	674.2	8.4
50°-60°	544.1	6.8
60°-70°	379.1	4.7
70°-80°	199.3	2.5
80°-90°	52.6	0.7
90°-100°	50.7	0.6
100°-110°	241.6	3.0
110°-120°	580.4	7.2
120°-130°	739.1	9.2
130°-140°	789.7	9.8
140°-150°	738.4	9.2
150°-160°	595.6	7.4
160°-170°	384.4	4.8
170°-180°	132.5	1.6
0°-30°	1182.9	14.7
0°-40°	1934.7	24.1
0°-60°	3153.0	39.2
0°-90°	3784.0	47.1
90°-120°	872.7	10.9
90°-150°	3139.9	39.1
90°-180°	4252.0	52.9
0°-180°	8036.4	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°	31	1	31	1	31	16
95°	39	63	39	63	39	33
105°	46	309	46	309	46	104
115°	609	579	609	579	609	563
125°	833	816	833	816	833	744
135°	1027	1016	1027	1016	1027	792
145°	1184	1173	1184	1173	1184	739
155°	1290	1292	1290	1292	1290	595
165°	1359	1362	1359	1362	1359	384
175°	1389	1394	1389	1394	1389	132
180°	1394	1394	1394	1394	1394	



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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°	20.8	19.7	20.2	20.5	19.9	20.2	20.6	20.9	21.1	21.5	21.4
90°	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.7	25.8	24.9	21.8
92.5°	34.4	34.2	33.9	33.5	33.3	32.5	30.9	29.4	28.0	26.5	24.3
95°	39.3	39.3	39.3	39.3	39.3	38.5	36.9	35.3	33.7	32.1	29.6
97.5°	42.7	42.4	42.3	42.0	41.7	40.8	38.9	37.0	35.2	33.3	49.9
100°	43.5	43.2	43.1	42.8	42.6	41.6	39.7	37.9	36.0	34.2	70.1
102.5°	44.3	44.0	43.5	43.1	42.7	45.3	51.0	56.7	62.4	68.1	107.4
105°	45.6	45.1	44.7	44.2	43.8	63.8	104.6	145.3	186.1	226.9	247.6
107.5°	143.2	173.9	204.6	235.3	266.0	296.3	326.2	356.1	385.9	415.9	412.6
110°	284.9	317.8	350.7	383.7	416.6	436.8	444.4	452.0	459.7	467.3	464.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	488.7	495.7	502.7	509.6	516.6	520.0	519.9	519.7	519.6	519.4	516.9
115°	609.1	608.2	607.3	606.4	605.5	603.9	601.5	599.2	597.0	594.7	592.6
117.5°	676.7	676.5	676.4	676.2	676.0	674.9	673.2	671.3	669.4	667.6	666.6
120°	723.1	723.1	723.1	723.1	723.1	722.2	720.3	718.5	716.7	714.8	714.2
122.5°	768.7	768.6	768.3	768.1	767.9	767.2	766.0	764.6	763.4	762.1	761.2
125°	832.9	832.5	832.1	831.5	831.1	830.6	830.2	829.7	829.3	828.8	827.9
127.5°	894.7	895.2	895.6	896.1	896.5	896.3	895.6	894.9	894.2	893.4	892.3
130°	934.5	935.0	935.4	935.9	936.3	936.1	935.1	934.2	933.4	932.4	931.5
132.5°	970.9	971.6	972.2	972.9	973.5	973.4	972.5	971.5	970.6	969.7	968.9
135°	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5	1028.8	1028.1	1027.3	1026.7	1025.7
137.5°	1079.1	1079.6	1080.0	1080.5	1080.9	1080.6	1079.5	1078.4	1077.3	1076.2	1075.7
140°	1110.6	1111.1	1111.5	1112.0	1112.4	1112.2	1111.3	1110.4	1109.5	1108.5	1107.9
142.5°	1139.6	1140.2	1140.9	1141.6	1142.2	1142.1	1141.4	1140.7	1140.0	1139.2	1138.5
145°	1184.1	1184.1	1184.1	1184.1	1184.1	1183.9	1183.5	1183.0	1182.5	1182.1	1181.6
147.5°	1217.3	1218.3	1219.4	1220.5	1221.6	1221.8	1221.4	1220.9	1220.5	1219.9	1219.5
150°	1242.2	1242.9	1243.6	1244.2	1244.9	1245.0	1244.6	1244.1	1243.7	1243.2	1242.8
152.5°	1262.0	1263.1	1264.2	1265.2	1266.3	1266.4	1265.6	1264.7	1263.9	1263.1	1262.8
155°	1289.9	1291.2	1292.6	1294.0	1295.3	1295.5	1294.3	1293.2	1292.0	1290.8	1290.7
157.5°	1313.2	1315.0	1316.8	1318.7	1320.4	1320.6	1319.2	1317.9	1316.5	1315.1	1315.4
160°	1328.1	1329.7	1331.4	1333.0	1334.6	1334.7	1333.3	1331.9	1330.6	1329.2	1329.5
162.5°	1342.2	1343.6	1345.1	1346.5	1347.9	1347.9	1346.3	1344.8	1343.2	1341.6	1341.8
165°	1359.2	1360.8	1362.4	1364.1	1365.7	1365.6	1363.7	1361.9	1360.0	1358.2	1358.4
167.5°	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9	1377.0	1375.1	1373.3	1371.5	1371.5
170°	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3	1384.5	1382.6	1380.7	1378.9	1378.9
172.5°	1383.0	1385.1	1387.1	1389.1	1391.2	1391.2	1389.4	1387.6	1385.7	1383.8	1383.7
175°	1389.3	1391.2	1392.9	1394.8	1396.6	1396.8	1395.2	1393.6	1392.0	1390.3	1390.1
177.5°	1391.2	1392.9	1394.8	1396.7	1398.5	1398.6	1397.2	1395.7	1394.3	1392.8	1392.6
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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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°	21.8	21.6	19.5	17.1	15.7	13.7	13.3	11.9	11.3	11.8	11.8
90°	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1	3.3	5.6	7.9
92.5°	22.0	19.8	17.5	16.7	17.3	18.0	18.6	19.3	18.6	18.0	17.3
95°	27.0	24.5	22.0	25.4	34.9	44.3	53.8	63.2	53.8	44.3	34.9
97.5°	66.5	83.1	99.7	110.0	114.3	118.5	122.8	127.0	122.8	118.5	114.3
100°	106.0	142.0	177.8	193.5	188.9	184.3	179.7	175.0	179.7	184.3	188.9
102.5°	146.6	185.8	225.1	243.1	239.7	236.4	233.1	229.8	233.1	236.4	239.7
105°	268.3	289.0	309.8	318.9	316.3	313.8	311.3	308.7	311.3	313.8	316.3
107.5°	409.3	406.1	402.8	400.1	398.1	396.1	394.0	392.0	394.0	396.1	398.1
110°	462.2	459.7	457.1	455.0	453.1	451.2	449.4	447.5	449.4	451.2	453.1





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	514.4	511.8	509.3	507.2	505.6	503.9	502.2	500.6	502.2	503.9	505.6
115°	590.5	588.4	586.4	584.6	583.3	581.8	580.5	579.2	580.5	581.8	583.3
117.5°	665.5	664.4	663.3	662.0	660.3	658.5	656.8	655.1	656.8	658.5	660.3
120°	713.5	712.7	712.1	710.7	708.6	706.6	704.5	702.4	704.5	706.6	708.6
122.5°	760.4	759.5	758.6	757.3	755.5	753.9	752.2	750.5	752.2	753.9	755.5
125°	827.0	826.0	825.1	823.8	821.9	820.0	818.2	816.4	818.2	820.0	821.9
127.5°	891.3	890.1	889.0	887.5	885.7	883.9	882.0	880.2	882.0	883.9	885.7
130°	930.6	929.6	928.7	927.3	925.5	923.6	921.9	920.0	921.9	923.6	925.5
132.5°	968.2	967.5	966.7	965.5	963.6	961.8	959.9	958.1	959.9	961.8	963.6
135°	1024.8	1024.0	1023.0	1021.8	1020.5	1019.0	1017.7	1016.3	1017.7	1019.0	1020.5
137.5°	1075.2	1074.7	1074.2	1073.1	1071.3	1069.5	1067.8	1066.0	1067.8	1069.5	1071.3
140°	1107.1	1106.4	1105.7	1104.7	1103.3	1102.0	1100.5	1099.2	1100.5	1102.0	1103.3
142.5°	1137.8	1137.1	1136.4	1135.4	1134.0	1132.7	1131.2	1129.9	1131.2	1132.7	1134.0
145°	1181.2	1180.7	1180.3	1179.2	1177.6	1176.0	1174.4	1172.8	1174.4	1176.0	1177.6
147.5°	1219.1	1218.6	1218.2	1217.4	1216.3	1215.3	1214.2	1213.2	1214.2	1215.3	1216.3
150°	1242.2	1241.8	1241.4	1240.8	1240.1	1239.4	1238.7	1238.1	1238.7	1239.4	1240.1
152.5°	1262.6	1262.2	1261.9	1261.7	1261.3	1261.1	1260.7	1260.4	1260.7	1261.1	1261.3
155°	1290.4	1290.1	1289.9	1290.0	1290.5	1290.9	1291.5	1291.9	1291.5	1290.9	1290.5
157.5°	1315.5	1315.8	1316.0	1316.2	1316.2	1316.3	1316.3	1316.3	1316.3	1316.3	1316.2
160°	1329.6	1329.9	1330.1	1330.3	1330.6	1330.8	1331.1	1331.2	1331.1	1330.8	1330.6
162.5°	1342.1	1342.3	1342.6	1342.9	1343.5	1344.2	1344.8	1345.3	1344.8	1344.2	1343.5
165°	1358.6	1358.9	1359.1	1359.6	1360.3	1360.9	1361.6	1362.4	1361.6	1360.9	1360.3
167.5°	1371.5	1371.5	1371.5	1371.9	1372.9	1373.8	1374.7	1375.6	1374.7	1373.8	1372.9
170°	1378.9	1378.9	1378.9	1379.4	1380.3	1381.3	1382.2	1383.0	1382.2	1381.3	1380.3
172.5°	1383.5	1383.3	1383.1	1383.6	1384.7	1385.8	1387.0	1388.0	1387.0	1385.8	1384.7
175°	1389.8	1389.6	1389.4	1389.8	1391.0	1392.1	1393.3	1394.5	1393.3	1392.1	1391.0
177.5°	1392.4	1392.2	1392.0	1392.4	1393.4	1394.3	1395.2	1396.2	1395.2	1394.3	1393.4
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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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°	11.8	12.8	12.9	14.0	14.1	15.2	15.3	14.5	14.7	16.4	14.6
90°	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.7	27.6	28.5	29.2
92.5°	16.7	17.5	19.8	22.0	24.3	26.5	28.0	29.4	30.9	32.5	33.3
95°	25.4	22.0	24.5	27.0	29.6	32.1	33.7	35.3	36.9	38.5	39.3
97.5°	110.0	99.7	83.1	66.5	49.9	33.3	35.2	37.0	38.9	40.8	41.7
100°	193.5	177.8	142.0	106.0	70.1	34.2	36.0	37.9	39.7	41.6	42.6
102.5°	243.1	225.1	185.8	146.6	107.4	68.1	62.4	56.7	51.0	45.3	42.7
105°	318.9	309.8	289.0	268.3	247.6	226.9	186.1	145.3	104.6	63.8	43.8
107.5°	400.1	402.8	406.1	409.3	412.6	415.9	385.9	356.1	326.2	296.3	266.0
110°	455.0	457.1	459.7	462.2	464.7	467.3	459.7	452.0	444.4	436.8	416.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	507.2	509.3	511.8	514.4	516.9	519.4	519.6	519.7	519.9	520.0	516.6
115°	584.6	586.4	588.4	590.5	592.6	594.7	597.0	599.2	601.5	603.9	605.5
117.5°	662.0	663.3	664.4	665.5	666.6	667.6	669.4	671.3	673.2	674.9	676.0
120°	710.7	712.1	712.7	713.5	714.2	714.8	716.7	718.5	720.3	722.2	723.1
122.5°	757.3	758.6	759.5	760.4	761.2	762.1	763.4	764.6	766.0	767.2	767.9
125°	823.8	825.1	826.0	827.0	827.9	828.8	829.3	829.7	830.2	830.6	831.1
127.5°	887.5	889.0	890.1	891.3	892.3	893.4	894.2	894.9	895.6	896.3	896.5
130°	927.3	928.7	929.6	930.6	931.5	932.4	933.4	934.2	935.1	936.1	936.3
132.5°	965.5	966.7	967.5	968.2	968.9	969.7	970.6	971.5	972.5	973.4	973.5
135°	1021.8	1023.0	1024.0	1024.8	1025.7	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5
137.5°	1073.1	1074.2	1074.7	1075.2	1075.7	1076.2	1077.3	1078.4	1079.5	1080.6	1080.9
140°	1104.7	1105.7	1106.4	1107.1	1107.9	1108.5	1109.5	1110.4	1111.3	1112.2	1112.4
142.5°	1135.4	1136.4	1137.1	1137.8	1138.5	1139.2	1140.0	1140.7	1141.4	1142.1	1142.2
145°	1179.2	1180.3	1180.7	1181.2	1181.6	1182.1	1182.5	1183.0	1183.5	1183.9	1184.1
147.5°	1217.4	1218.2	1218.6	1219.1	1219.5	1219.9	1220.5	1220.9	1221.4	1221.8	1221.6
150°	1240.8	1241.4	1241.8	1242.2	1242.8	1243.2	1243.7	1244.1	1244.6	1245.0	1244.9
152.5°	1261.7	1261.9	1262.2	1262.6	1262.8	1263.1	1263.9	1264.7	1265.6	1266.4	1266.3
155°	1290.0	1289.9	1290.1	1290.4	1290.7	1290.8	1292.0	1293.2	1294.3	1295.5	1295.3
157.5°	1316.2	1316.0	1315.8	1315.5	1315.4	1315.1	1316.5	1317.9	1319.2	1320.6	1320.4
160°	1330.3	1330.1	1329.9	1329.6	1329.5	1329.2	1330.6	1331.9	1333.3	1334.7	1334.6
162.5°	1342.9	1342.6	1342.3	1342.1	1341.8	1341.6	1343.2	1344.8	1346.3	1347.9	1347.9
165°	1359.6	1359.1	1358.9	1358.6	1358.4	1358.2	1360.0	1361.9	1363.7	1365.6	1365.7
167.5°	1371.9	1371.5	1371.5	1371.5	1371.5	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9
170°	1379.4	1378.9	1378.9	1378.9	1378.9	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3
172.5°	1383.6	1383.1	1383.3	1383.5	1383.7	1383.8	1385.7	1387.6	1389.4	1391.2	1391.2
175°	1389.8	1389.4	1389.6	1389.8	1390.1	1390.3	1392.0	1393.6	1395.2	1396.8	1396.6
177.5°	1392.4	1392.0	1392.2	1392.4	1392.6	1392.8	1394.3	1395.7	1397.2	1398.6	1398.5
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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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°	14.7	14.8	14.4	14.0	14.4	14.8	14.7	14.6	16.4	14.7	14.5
90°	29.7	30.1	30.6	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.7
92.5°	33.5	33.9	34.2	34.4	34.2	33.9	33.5	33.3	32.5	30.9	29.4
95°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	38.5	36.9	35.3
97.5°	42.0	42.3	42.4	42.7	42.4	42.3	42.0	41.7	40.8	38.9	37.0
100°	42.8	43.1	43.2	43.5	43.2	43.1	42.8	42.6	41.6	39.7	37.9
102.5°	43.1	43.5	44.0	44.3	44.0	43.5	43.1	42.7	45.3	51.0	56.7
105°	44.2	44.7	45.1	45.6	45.1	44.7	44.2	43.8	63.8	104.6	145.3
107.5°	235.3	204.6	173.9	143.2	173.9	204.6	235.3	266.0	296.3	326.2	356.1
110°	383.7	350.7	317.8	284.9	317.8	350.7	383.7	416.6	436.8	444.4	452.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	509.6	502.7	495.7	488.7	495.7	502.7	509.6	516.6	520.0	519.9	519.7
115°	606.4	607.3	608.2	609.1	608.2	607.3	606.4	605.5	603.9	601.5	599.2
117.5°	676.2	676.4	676.5	676.7	676.5	676.4	676.2	676.0	674.9	673.2	671.3
120°	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	722.2	720.3	718.5
122.5°	768.1	768.3	768.6	768.7	768.6	768.3	768.1	767.9	767.2	766.0	764.6
125°	831.5	832.1	832.5	832.9	832.5	832.1	831.5	831.1	830.6	830.2	829.7
127.5°	896.1	895.6	895.2	894.7	895.2	895.6	896.1	896.5	896.3	895.6	894.9
130°	935.9	935.4	935.0	934.5	935.0	935.4	935.9	936.3	936.1	935.1	934.2
132.5°	972.9	972.2	971.6	970.9	971.6	972.2	972.9	973.5	973.4	972.5	971.5
135°	1028.8	1028.1	1027.3	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5	1028.8	1028.1
137.5°	1080.5	1080.0	1079.6	1079.1	1079.6	1080.0	1080.5	1080.9	1080.6	1079.5	1078.4
140°	1112.0	1111.5	1111.1	1110.6	1111.1	1111.5	1112.0	1112.4	1112.2	1111.3	1110.4
142.5°	1141.6	1140.9	1140.2	1139.6	1140.2	1140.9	1141.6	1142.2	1142.1	1141.4	1140.7
145°	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1183.9	1183.5	1183.0
147.5°	1220.5	1219.4	1218.3	1217.3	1218.3	1219.4	1220.5	1221.6	1221.8	1221.4	1220.9
150°	1244.2	1243.6	1242.9	1242.2	1242.9	1243.6	1244.2	1244.9	1245.0	1244.6	1244.1
152.5°	1265.2	1264.2	1263.1	1262.0	1263.1	1264.2	1265.2	1266.3	1266.4	1265.6	1264.7
155°	1294.0	1292.6	1291.2	1289.9	1291.2	1292.6	1294.0	1295.3	1295.5	1294.3	1293.2
157.5°	1318.7	1316.8	1315.0	1313.2	1315.0	1316.8	1318.7	1320.4	1320.6	1319.2	1317.9
160°	1333.0	1331.4	1329.7	1328.1	1329.7	1331.4	1333.0	1334.6	1334.7	1333.3	1331.9
162.5°	1346.5	1345.1	1343.6	1342.2	1343.6	1345.1	1346.5	1347.9	1347.9	1346.3	1344.8
165°	1364.1	1362.4	1360.8	1359.2	1360.8	1362.4	1364.1	1365.7	1365.6	1363.7	1361.9
167.5°	1377.0	1375.1	1373.3	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9	1377.0	1375.1
170°	1384.5	1382.6	1380.7	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3	1384.5	1382.6
172.5°	1389.1	1387.1	1385.1	1383.0	1385.1	1387.1	1389.1	1391.2	1391.2	1389.4	1387.6
175°	1394.8	1392.9	1391.2	1389.3	1391.2	1392.9	1394.8	1396.6	1396.8	1395.2	1393.6
177.5°	1396.7	1394.8	1392.9	1391.2	1392.9	1394.8	1396.7	1398.5	1398.6	1397.2	1395.7
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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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°	15.3	15.2	14.1	14.0	12.9	12.8	11.8	11.8	11.8	11.3	11.9
90°	25.8	24.9	21.8	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1
92.5°	28.0	26.5	24.3	22.0	19.8	17.5	16.7	17.3	18.0	18.6	19.3
95°	33.7	32.1	29.6	27.0	24.5	22.0	25.4	34.9	44.3	53.8	63.2
97.5°	35.2	33.3	49.9	66.5	83.1	99.7	110.0	114.3	118.5	122.8	127.0
100°	36.0	34.2	70.1	106.0	142.0	177.8	193.5	188.9	184.3	179.7	175.0
102.5°	62.4	68.1	107.4	146.6	185.8	225.1	243.1	239.7	236.4	233.1	229.8
105°	186.1	226.9	247.6	268.3	289.0	309.8	318.9	316.3	313.8	311.3	308.7
107.5°	385.9	415.9	412.6	409.3	406.1	402.8	400.1	398.1	396.1	394.0	392.0
110°	459.7	467.3	464.7	462.2	459.7	457.1	455.0	453.1	451.2	449.4	447.5



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CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	519.6	519.4	516.9	514.4	511.8	509.3	507.2	505.6	503.9	502.2	500.6
115°	597.0	594.7	592.6	590.5	588.4	586.4	584.6	583.3	581.8	580.5	579.2
117.5°	669.4	667.6	666.6	665.5	664.4	663.3	662.0	660.3	658.5	656.8	655.1
120°	716.7	714.8	714.2	713.5	712.7	712.1	710.7	708.6	706.6	704.5	702.4
122.5°	763.4	762.1	761.2	760.4	759.5	758.6	757.3	755.5	753.9	752.2	750.5
125°	829.3	828.8	827.9	827.0	826.0	825.1	823.8	821.9	820.0	818.2	816.4
127.5°	894.2	893.4	892.3	891.3	890.1	889.0	887.5	885.7	883.9	882.0	880.2
130°	933.4	932.4	931.5	930.6	929.6	928.7	927.3	925.5	923.6	921.9	920.0
132.5°	970.6	969.7	968.9	968.2	967.5	966.7	965.5	963.6	961.8	959.9	958.1
135°	1027.3	1026.7	1025.7	1024.8	1024.0	1023.0	1021.8	1020.5	1019.0	1017.7	1016.3
137.5°	1077.3	1076.2	1075.7	1075.2	1074.7	1074.2	1073.1	1071.3	1069.5	1067.8	1066.0
140°	1109.5	1108.5	1107.9	1107.1	1106.4	1105.7	1104.7	1103.3	1102.0	1100.5	1099.2
142.5°	1140.0	1139.2	1138.5	1137.8	1137.1	1136.4	1135.4	1134.0	1132.7	1131.2	1129.9
145°	1182.5	1182.1	1181.6	1181.2	1180.7	1180.3	1179.2	1177.6	1176.0	1174.4	1172.8
147.5°	1220.5	1219.9	1219.5	1219.1	1218.6	1218.2	1217.4	1216.3	1215.3	1214.2	1213.2
150°	1243.7	1243.2	1242.8	1242.2	1241.8	1241.4	1240.8	1240.1	1239.4	1238.7	1238.1
152.5°	1263.9	1263.1	1262.8	1262.6	1262.2	1261.9	1261.7	1261.3	1261.1	1260.7	1260.4
155°	1292.0	1290.8	1290.7	1290.4	1290.1	1289.9	1290.0	1290.5	1290.9	1291.5	1291.9
157.5°	1316.5	1315.1	1315.4	1315.5	1315.8	1316.0	1316.2	1316.2	1316.3	1316.3	1316.3
160°	1330.6	1329.2	1329.5	1329.6	1329.9	1330.1	1330.3	1330.6	1330.8	1331.1	1331.2
162.5°	1343.2	1341.6	1341.8	1342.1	1342.3	1342.6	1342.9	1343.5	1344.2	1344.8	1345.3
165°	1360.0	1358.2	1358.4	1358.6	1358.9	1359.1	1359.6	1360.3	1360.9	1361.6	1362.4
167.5°	1373.3	1371.5	1371.5	1371.5	1371.5	1371.5	1371.9	1372.9	1373.8	1374.7	1375.6
170°	1380.7	1378.9	1378.9	1378.9	1378.9	1378.9	1379.4	1380.3	1381.3	1382.2	1383.0
172.5°	1385.7	1383.8	1383.7	1383.5	1383.3	1383.1	1383.6	1384.7	1385.8	1387.0	1388.0
175°	1392.0	1390.3	1390.1	1389.8	1389.6	1389.4	1389.8	1391.0	1392.1	1393.3	1394.5
177.5°	1394.3	1392.8	1392.6	1392.4	1392.2	1392.0	1392.4	1393.4	1394.3	1395.2	1396.2
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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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°	13.3	13.7	15.7	17.1	19.5	21.6	21.8	21.4	21.5	21.1	20.9
90°	3.3	5.6	7.9	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.7
92.5°	18.6	18.0	17.3	16.7	17.5	19.8	22.0	24.3	26.5	28.0	29.4
95°	53.8	44.3	34.9	25.4	22.0	24.5	27.0	29.6	32.1	33.7	35.3
97.5°	122.8	118.5	114.3	110.0	99.7	83.1	66.5	49.9	33.3	35.2	37.0
100°	179.7	184.3	188.9	193.5	177.8	142.0	106.0	70.1	34.2	36.0	37.9
102.5°	233.1	236.4	239.7	243.1	225.1	185.8	146.6	107.4	68.1	62.4	56.7
105°	311.3	313.8	316.3	318.9	309.8	289.0	268.3	247.6	226.9	186.1	145.3
107.5°	394.0	396.1	398.1	400.1	402.8	406.1	409.3	412.6	415.9	385.9	356.1
110°	449.4	451.2	453.1	455.0	457.1	459.7	462.2	464.7	467.3	459.7	452.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	502.2	503.9	505.6	507.2	509.3	511.8	514.4	516.9	519.4	519.6	519.7
115°	580.5	581.8	583.3	584.6	586.4	588.4	590.5	592.6	594.7	597.0	599.2
117.5°	656.8	658.5	660.3	662.0	663.3	664.4	665.5	666.6	667.6	669.4	671.3
120°	704.5	706.6	708.6	710.7	712.1	712.7	713.5	714.2	714.8	716.7	718.5
122.5°	752.2	753.9	755.5	757.3	758.6	759.5	760.4	761.2	762.1	763.4	764.6
125°	818.2	820.0	821.9	823.8	825.1	826.0	827.0	827.9	828.8	829.3	829.7
127.5°	882.0	883.9	885.7	887.5	889.0	890.1	891.3	892.3	893.4	894.2	894.9
130°	921.9	923.6	925.5	927.3	928.7	929.6	930.6	931.5	932.4	933.4	934.2
132.5°	959.9	961.8	963.6	965.5	966.7	967.5	968.2	968.9	969.7	970.6	971.5
135°	1017.7	1019.0	1020.5	1021.8	1023.0	1024.0	1024.8	1025.7	1026.7	1027.3	1028.1
137.5°	1067.8	1069.5	1071.3	1073.1	1074.2	1074.7	1075.2	1075.7	1076.2	1077.3	1078.4
140°	1100.5	1102.0	1103.3	1104.7	1105.7	1106.4	1107.1	1107.9	1108.5	1109.5	1110.4
142.5°	1131.2	1132.7	1134.0	1135.4	1136.4	1137.1	1137.8	1138.5	1139.2	1140.0	1140.7
145°	1174.4	1176.0	1177.6	1179.2	1180.3	1180.7	1181.2	1181.6	1182.1	1182.5	1183.0
147.5°	1214.2	1215.3	1216.3	1217.4	1218.2	1218.6	1219.1	1219.5	1219.9	1220.5	1220.9
150°	1238.7	1239.4	1240.1	1240.8	1241.4	1241.8	1242.2	1242.8	1243.2	1243.7	1244.1
152.5°	1260.7	1261.1	1261.3	1261.7	1261.9	1262.2	1262.6	1262.8	1263.1	1263.9	1264.7
155°	1291.5	1290.9	1290.5	1290.0	1289.9	1290.1	1290.4	1290.7	1290.8	1292.0	1293.2
157.5°	1316.3	1316.3	1316.2	1316.2	1316.0	1315.8	1315.5	1315.4	1315.1	1316.5	1317.9
160°	1331.1	1330.8	1330.6	1330.3	1330.1	1329.9	1329.6	1329.5	1329.2	1330.6	1331.9
162.5°	1344.8	1344.2	1343.5	1342.9	1342.6	1342.3	1342.1	1341.8	1341.6	1343.2	1344.8
165°	1361.6	1360.9	1360.3	1359.6	1359.1	1358.9	1358.6	1358.4	1358.2	1360.0	1361.9
167.5°	1374.7	1373.8	1372.9	1371.9	1371.5	1371.5	1371.5	1371.5	1371.5	1373.3	1375.1
170°	1382.2	1381.3	1380.3	1379.4	1378.9	1378.9	1378.9	1378.9	1378.9	1380.7	1382.6
172.5°	1387.0	1385.8	1384.7	1383.6	1383.1	1383.3	1383.5	1383.7	1383.8	1385.7	1387.6
175°	1393.3	1392.1	1391.0	1389.8	1389.4	1389.6	1389.8	1390.1	1390.3	1392.0	1393.6
177.5°	1395.2	1394.3	1393.4	1392.4	1392.0	1392.2	1392.4	1392.6	1392.8	1394.3	1395.7
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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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°	20.6	20.2	19.9	20.5	20.2	19.7	20.8
90°	27.6	28.5	29.2	29.7	30.1	30.6	31.1
92.5°	30.9	32.5	33.3	33.5	33.9	34.2	34.4
95°	36.9	38.5	39.3	39.3	39.3	39.3	39.3
97.5°	38.9	40.8	41.7	42.0	42.3	42.4	42.7
100°	39.7	41.6	42.6	42.8	43.1	43.2	43.5
102.5°	51.0	45.3	42.7	43.1	43.5	44.0	44.3
105°	104.6	63.8	43.8	44.2	44.7	45.1	45.6
107.5°	326.2	296.3	266.0	235.3	204.6	173.9	143.2
110°	444.4	436.8	416.6	383.7	350.7	317.8	284.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	519.9	520.0	516.6	509.6	502.7	495.7	488.7
115°	601.5	603.9	605.5	606.4	607.3	608.2	609.1
117.5°	673.2	674.9	676.0	676.2	676.4	676.5	676.7
120°	720.3	722.2	723.1	723.1	723.1	723.1	723.1
122.5°	766.0	767.2	767.9	768.1	768.3	768.6	768.7
125°	830.2	830.6	831.1	831.5	832.1	832.5	832.9
127.5°	895.6	896.3	896.5	896.1	895.6	895.2	894.7
130°	935.1	936.1	936.3	935.9	935.4	935.0	934.5
132.5°	972.5	973.4	973.5	972.9	972.2	971.6	970.9
135°	1028.8	1029.5	1029.5	1028.8	1028.1	1027.3	1026.7
137.5°	1079.5	1080.6	1080.9	1080.5	1080.0	1079.6	1079.1
140°	1111.3	1112.2	1112.4	1112.0	1111.5	1111.1	1110.6
142.5°	1141.4	1142.1	1142.2	1141.6	1140.9	1140.2	1139.6
145°	1183.5	1183.9	1184.1	1184.1	1184.1	1184.1	1184.1
147.5°	1221.4	1221.8	1221.6	1220.5	1219.4	1218.3	1217.3
150°	1244.6	1245.0	1244.9	1244.2	1243.6	1242.9	1242.2
152.5°	1265.6	1266.4	1266.3	1265.2	1264.2	1263.1	1262.0
155°	1294.3	1295.5	1295.3	1294.0	1292.6	1291.2	1289.9
157.5°	1319.2	1320.6	1320.4	1318.7	1316.8	1315.0	1313.2
160°	1333.3	1334.7	1334.6	1333.0	1331.4	1329.7	1328.1
162.5°	1346.3	1347.9	1347.9	1346.5	1345.1	1343.6	1342.2
165°	1363.7	1365.6	1365.7	1364.1	1362.4	1360.8	1359.2
167.5°	1377.0	1378.9	1378.9	1377.0	1375.1	1373.3	1371.5
170°	1384.5	1386.3	1386.3	1384.5	1382.6	1380.7	1378.9
172.5°	1389.4	1391.2	1391.2	1389.1	1387.1	1385.1	1383.0
175°	1395.2	1396.8	1396.6	1394.8	1392.9	1391.2	1389.3
177.5°	1397.2	1398.6	1398.5	1396.7	1394.8	1392.9	1391.2
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5

(END OF REPORT)