

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: P332037

Luminaire Tested: **S123DIP-S1000D1195U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332037  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D1195U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

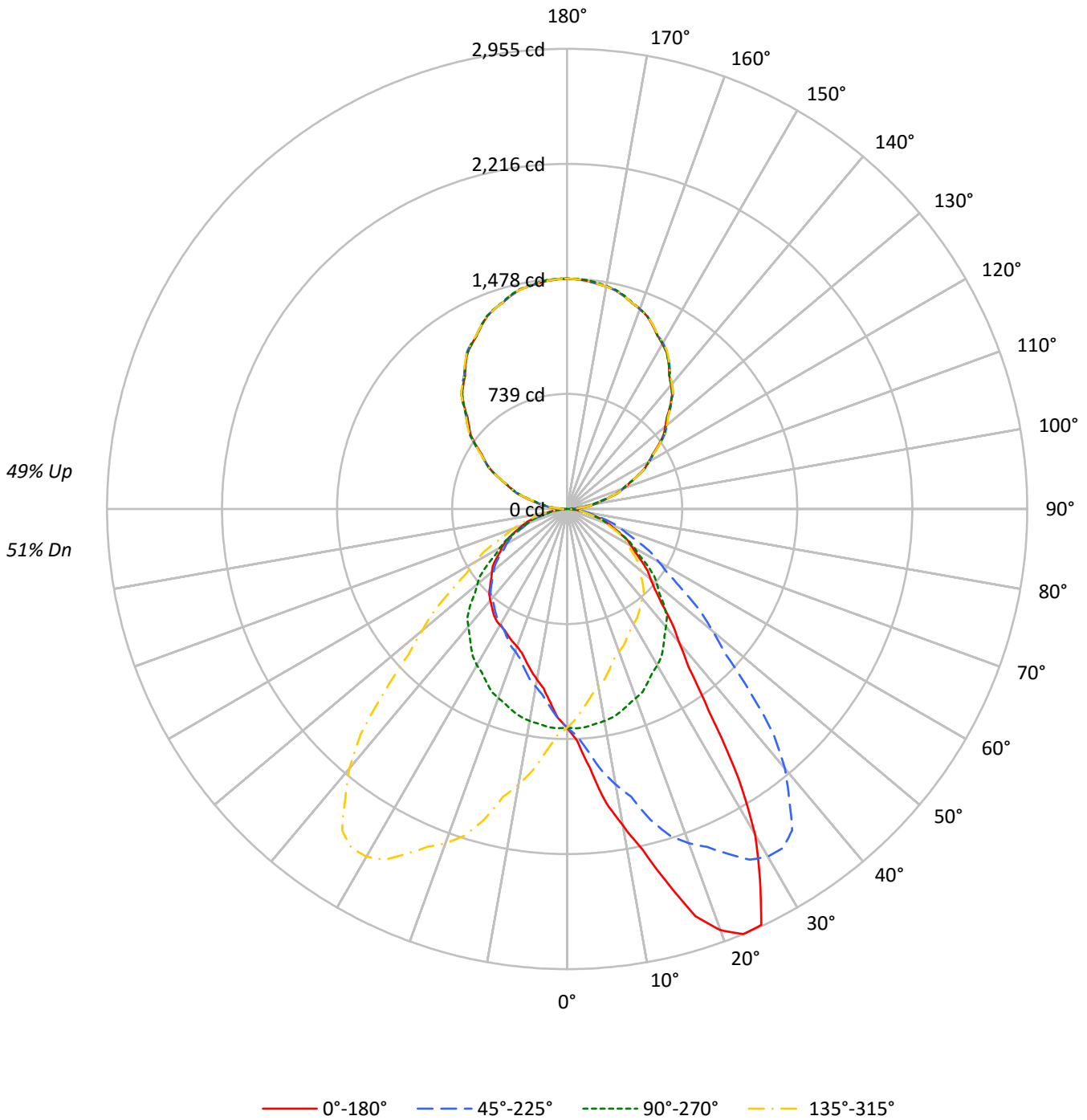
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8341.5 lumens  
Efficiency: N/A  
Efficacy: 127.5 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	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	43	43	43	37	37	37	31	31	31	27																
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43	43	43	37	37	37	31	31	31	27	27	27	24																
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37	37	37	31	31	31	27	27	27	24	24	24	21																
3	82	73	65	60	75	67	61	56	58	53	49	48	45	42	40	38	35	31	31	31	27	27	27	24	24	24	21	21	21	19																
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27	27	27	24	24	24	21	21	21	19	19	19	17																
5	69	57	49	44	64	54	46	41	46	40	36	39	35	31	32	29	27	24	24	24	21	21	21	19	19	19	17	17	17	15																
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21	21	21	19	19	19	17	17	17	15	15	15	13																
7	59	47	39	33	54	44	36	31	38	32	28	32	28	24	27	24	21	19	19	19	17	17	17	15	15	15	13	13	13	11																
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	17	17	17	15	15	15	13	13	13	11	11	11	9																
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15	15	15	13	13	13	11	11	11	9	9	9	7																
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14	14	14	13	13	13	11	11	11	9	9	9	7																

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15118	15118	15118	15118
5°	18029	15183	13456	15183
10°	22566	15106	12153	15106
15°	27679	14985	11314	14985
20°	32972	14795	10772	14795
25°	35011	14563	10652	14563
30°	30009	14395	10708	14395
35°	20871	14155	10820	14155
40°	15719	13874	10786	13874
45°	13052	13457	10648	13457
50°	11692	12603	10551	12603
55°	10931	11684	10421	11684
60°	10254	10723	10314	10723
65°	9638	9775	9984	9775
70°	9039	8696	9508	8696
75°	8093	7615	8717	7615
80°	7085	6242	7507	6242
85°	5545	4533	5039	4533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	1.7
10°-20°	443.6	5.3
20°-30°	744.6	8.9
30°-40°	843.1	10.1
40°-50°	756.1	9.1
50°-60°	610.1	7.3
60°-70°	425.2	5.1
70°-80°	223.5	2.7
80°-90°	59.0	0.7
90°-100°	96.4	1.2
100°-110°	288.4	3.5
110°-120°	490.5	5.9
120°-130°	645.2	7.7
130°-140°	725.2	8.7
140°-150°	712.8	8.5
150°-160°	600.1	7.2
160°-170°	399.5	4.8
170°-180°	139.9	1.7
0°-30°	1326.6	15.9
0°-40°	2169.7	26.0
0°-60°	3535.9	42.4
0°-90°	4243.5	50.9
90°-120°	875.3	10.5
90°-150°	2958.5	35.5
90°-180°	4098.0	49.1
0°-180°	8341.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1404	1404	1404	1404	1404	
5°	1669	1405	1245	1405	1669	173
15°	2484	1345	1015	1345	2484	717
25°	2948	1226	897	1226	2948	1293
35°	1588	1077	823	1077	1588	1032
45°	857	884	700	884	857	678
55°	582	623	555	623	582	523
65°	378	384	392	384	378	377
75°	195	183	210	183	195	208
85°	45	37	41	37	45	54
90°	35	1	35	1	35	19
95°	91	69	91	69	91	93
105°	276	261	276	261	276	293
115°	495	494	495	494	495	490
125°	715	723	715	723	715	639
135°	936	938	936	938	936	720
145°	1138	1138	1138	1138	1138	710
155°	1300	1302	1300	1302	1300	599
165°	1414	1419	1414	1419	1414	399
175°	1470	1476	1470	1476	1470	140
180°	1479	1479	1479	1479	1479	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1490.5	1489.5	1486.7	1488.9	1484.6	1478.6	1478.0	1472.6	1456.8	1455.7	1451.4
5°	1668.6	1663.1	1662.4	1661.8	1652.2	1639.3	1614.8	1612.8	1580.1	1563.8	1544.0
7.5°	1899.1	1902.0	1892.0	1883.3	1854.2	1835.0	1808.7	1775.1	1735.0	1694.3	1667.2
10°	2064.6	2087.1	2059.2	2040.1	2022.4	1989.1	1950.3	1902.0	1853.7	1797.2	1754.3
12.5°	2242.1	2253.1	2247.5	2229.6	2202.1	2151.3	2082.6	2029.4	1984.9	1890.8	1852.8
15°	2483.8	2525.3	2498.8	2437.5	2438.9	2390.6	2300.7	2202.1	2149.7	2067.3	1955.1
17.5°	2741.3	2746.5	2735.2	2684.1	2650.1	2583.7	2500.8	2406.2	2300.1	2200.4	2081.4
20°	2878.5	2874.4	2850.6	2824.0	2765.5	2713.8	2623.3	2517.8	2381.7	2283.7	2153.8
22.5°	2954.7	2947.9	2936.6	2914.4	2865.7	2810.2	2728.9	2613.6	2484.1	2349.1	2198.9
25°	2947.9	2956.7	2958.1	2952.0	2935.0	2901.6	2837.6	2745.8	2616.5	2443.0	2286.5
27.5°	2681.1	2693.7	2730.0	2762.3	2798.3	2835.1	2830.2	2784.6	2688.9	2539.0	2347.7
30°	2414.4	2387.2	2454.5	2539.6	2597.4	2699.5	2756.7	2760.1	2706.3	2577.7	2391.2
32.5°	2044.2	2074.1	2103.9	2208.6	2335.0	2449.6	2563.4	2655.0	2665.5	2579.9	2416.8
35°	1588.3	1625.7	1680.1	1734.6	1870.7	1987.7	2187.8	2362.0	2500.8	2519.2	2419.1
37.5°	1279.9	1298.4	1332.8	1387.4	1476.4	1615.2	1770.0	1990.2	2191.3	2340.9	2347.4
40°	1118.7	1124.2	1163.0	1204.5	1276.6	1390.9	1530.4	1725.0	1965.9	2174.9	2262.0
42.5°	997.9	1009.8	1026.3	1066.2	1123.6	1209.6	1339.3	1500.2	1721.0	1961.4	2131.8
45°	857.4	871.0	881.2	907.8	948.6	1006.4	1097.0	1243.9	1412.0	1660.4	1889.7
47.5°	764.6	765.7	773.3	793.3	821.1	864.5	928.5	1022.9	1177.2	1378.7	1614.1
50°	698.2	709.1	711.8	727.4	749.2	781.2	834.3	914.6	1041.2	1218.1	1434.5
52.5°	651.4	654.6	662.3	673.6	692.6	717.5	763.5	826.4	925.7	1076.5	1275.5
55°	582.5	582.5	590.0	598.8	609.7	632.2	662.8	709.1	784.6	901.7	1066.3
57.5°	518.8	522.2	527.5	530.2	539.5	554.3	579.9	615.0	671.4	761.5	892.4
60°	476.3	482.5	481.8	487.2	495.4	507.0	528.7	557.3	607.7	679.8	790.1
62.5°	439.3	438.9	438.8	445.3	453.5	464.5	478.7	503.4	546.2	610.1	704.0
65°	378.4	377.0	381.8	385.8	388.6	396.7	407.6	429.4	458.0	505.6	578.4
67.5°	324.2	320.2	322.8	324.2	328.8	335.2	345.4	358.9	381.6	419.9	474.7
70°	287.2	283.8	283.1	284.4	288.5	293.3	300.8	313.7	334.8	365.4	405.6
72.5°	249.1	246.7	246.6	249.6	251.5	254.6	259.9	271.8	288.5	311.5	349.0
75°	194.6	194.6	194.6	195.3	197.3	200.1	204.1	210.3	223.2	239.5	264.7
77.5°	145.9	145.8	144.9	144.8	147.8	149.0	150.0	155.7	162.9	173.9	192.3
80°	114.3	110.9	112.3	114.3	115.7	116.4	118.4	119.8	125.9	132.0	144.9
82.5°	84.9	82.1	82.3	85.5	85.7	86.4	88.5	90.4	92.7	98.3	105.2
85°	44.9	44.9	45.6	45.6	46.3	45.6	47.6	48.3	48.3	51.7	55.8
87.5°	23.3	22.1	22.6	23.0	22.3	22.7	23.1	23.4	23.7	24.1	24.0
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0	28.9	27.9	24.5
92.5°	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3	45.4	44.6	42.7
95°	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0	87.0	86.0	83.9
97.5°	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9	135.7	134.5	133.0
100°	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3	171.6	170.8	169.5
102.5°	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2	212.5	211.7	210.0
105°	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2	274.2	274.2	271.9
107.5°	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2	339.4	338.6	337.6
110°	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3	383.3	382.3	381.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4	427.2	425.9	425.8
115°	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5	495.2	495.0	495.5
117.5°	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2	563.2	563.3	564.0
120°	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3	608.6	608.8	610.1
122.5°	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0	654.6	655.3	656.0
125°	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8	722.8	723.9	724.4
127.5°	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8	790.3	791.7	792.3
130°	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3	834.4	835.4	836.2
132.5°	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6	877.8	879.1	879.6
135°	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4	942.4	943.4	943.7
137.5°	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7	1005.8	1006.9	1006.2
140°	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6
142.5°	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4	1085.6	1085.9	1085.4
145°	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8	1143.0	1143.3	1142.5
147.5°	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4	1230.4	1230.4	1229.9
152.5°	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0	1260.6	1260.2	1259.9
155°	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7	1304.7	1303.6	1303.4
157.5°	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1	1343.1	1342.0	1341.8
160°	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8	1366.5	1365.2	1365.2
162.5°	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1	1388.8	1387.5	1387.3
165°	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3	1416.7	1415.2	1415.2
167.5°	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9	1437.7
170°	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0	1450.0
172.5°	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5	1461.9	1460.3	1460.3
175°	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0	1472.5	1470.9	1470.9
177.5°	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8	1477.5	1476.3	1476.3
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1448.1	1443.7	1439.4	1431.8	1425.2	1416.0	1413.2	1410.0	1400.2	1391.5	1384.9
5°	1536.5	1520.2	1496.4	1474.6	1456.9	1433.1	1419.5	1405.2	1384.8	1366.4	1351.5
7.5°	1629.1	1597.0	1560.0	1519.9	1482.7	1446.7	1417.7	1391.9	1363.3	1336.2	1315.1
10°	1702.6	1656.3	1604.6	1548.8	1501.2	1454.9	1416.1	1382.1	1345.3	1313.3	1286.8
12.5°	1786.4	1717.8	1646.5	1578.7	1522.4	1458.2	1411.2	1367.9	1326.3	1287.8	1258.0
15°	1885.6	1798.5	1714.2	1620.9	1535.2	1454.9	1399.1	1344.7	1296.3	1256.9	1218.8
17.5°	1976.0	1877.3	1766.1	1652.8	1549.3	1454.1	1376.0	1314.4	1254.0	1205.7	1167.7
20°	2027.2	1914.9	1789.0	1671.3	1557.0	1450.8	1365.1	1291.6	1226.2	1175.2	1132.3
22.5°	2071.3	1939.9	1809.7	1683.8	1556.4	1442.1	1344.9	1269.3	1198.5	1148.5	1102.9
25°	2117.0	1959.8	1829.2	1681.5	1539.3	1420.9	1312.0	1226.2	1155.5	1097.0	1050.0
27.5°	2156.2	1958.5	1803.4	1644.6	1512.3	1393.6	1277.4	1185.4	1110.3	1046.7	999.1
30°	2182.3	1961.2	1776.8	1619.6	1486.2	1363.7	1250.7	1158.2	1079.3	1014.6	969.7
32.5°	2198.7	1959.5	1752.3	1584.7	1444.8	1336.5	1221.9	1126.1	1045.0	981.4	938.1
35°	2208.2	1947.6	1710.1	1512.7	1378.0	1272.5	1176.6	1077.2	992.2	933.0	884.0
37.5°	2189.1	1922.4	1661.1	1443.3	1295.8	1191.9	1111.2	1026.6	945.2	880.0	837.8
40°	2159.2	1906.1	1623.0	1394.3	1239.2	1139.1	1070.4	987.4	907.1	845.2	805.7
42.5°	2102.0	1872.8	1581.1	1339.9	1180.4	1080.3	1017.1	947.7	871.7	813.6	774.1
45°	1962.5	1800.6	1518.2	1258.2	1093.5	990.1	934.3	884.0	815.2	758.7	724.7
47.5°	1769.0	1691.8	1427.3	1172.1	1002.9	903.4	845.4	804.9	754.7	709.1	676.4
50°	1634.5	1602.6	1365.7	1113.3	942.5	845.2	789.4	752.6	716.6	671.0	641.0
52.5°	1479.4	1499.1	1293.9	1052.3	881.0	785.3	732.8	703.6	670.8	633.4	607.3
55°	1261.0	1332.4	1169.8	950.0	789.4	698.2	648.5	622.6	603.6	575.7	553.2
57.5°	1056.4	1147.3	1035.6	844.5	699.4	620.7	573.1	544.9	532.7	518.1	500.4
60°	935.0	1024.8	939.8	773.7	639.0	564.1	521.9	498.1	485.9	475.7	460.7
62.5°	826.7	917.6	846.1	701.9	579.6	510.2	473.5	450.2	440.7	435.4	422.6
65°	677.8	756.0	708.4	590.0	494.7	433.5	400.1	383.8	375.0	372.9	364.7
67.5°	551.6	611.2	576.5	489.4	414.4	361.5	333.2	319.3	312.5	311.8	305.7
70°	468.9	524.7	498.1	419.2	354.5	313.0	288.5	276.3	272.2	271.5	268.1
72.5°	404.6	443.5	422.4	356.6	306.6	268.9	251.0	238.2	233.5	234.5	232.2
75°	299.4	328.7	316.4	270.8	230.7	206.2	191.2	183.1	179.0	181.0	178.3
77.5°	215.4	234.0	222.9	191.4	166.6	148.9	137.9	132.8	129.2	129.0	127.8
80°	162.6	173.5	167.4	148.3	127.9	113.0	104.1	100.7	98.7	98.0	97.3
82.5°	115.8	125.1	117.9	104.8	90.9	81.9	76.9	72.4	70.9	71.3	70.6
85°	58.5	61.9	59.2	51.0	45.6	41.5	38.8	36.7	35.4	36.1	34.7
87.5°	24.4	24.3	21.9	19.2	17.6	15.4	14.9	13.3	12.7	13.2	13.2
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1	29.9	31.6	33.4
95°	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6	70.4	72.2	74.0
97.5°	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8	123.1	124.5	125.8
100°	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0	159.6	161.1	162.7
102.5°	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8	200.8	201.7	202.6
105°	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4	261.9	262.5	263.0
107.5°	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0	333.3	333.6	333.9
110°	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6	378.1	378.6	379.2





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1	424.4	424.7	425.0
115°	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8	494.6	495.3	496.1
117.5°	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0	564.5	565.0	565.5
120°	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7	609.2	610.8	612.3
122.5°	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2	654.3	655.5	656.6
125°	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7	723.5	724.2	725.0
127.5°	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8	788.5	790.1	791.8
130°	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6	831.6	833.7	835.8
132.5°	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3	874.4	876.5	878.5
135°	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6	939.2	940.7	942.3
137.5°	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1	999.3	1000.6	1001.9
140°	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9	1041.2	1042.5	1043.8
142.5°	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0	1079.3	1080.6	1081.9
145°	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5	1138.0	1138.5	1139.0
147.5°	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5	1190.5	1191.4	1192.3
150°	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8	1226.3	1226.8	1227.3
152.5°	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5	1256.3	1257.0	1257.7
155°	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4	1342.1	1341.8	1341.5
160°	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5	1367.0	1366.5	1366.0
162.5°	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8	1389.1	1388.4	1387.7
165°	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7	1417.9	1417.1	1416.3
167.5°	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7	1440.6	1439.6	1438.6
170°	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7	1453.6	1452.6	1451.6
172.5°	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9	1463.9	1462.8	1461.8
175°	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6	1474.6	1473.5	1472.5
177.5°	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0	1479.2	1478.4	1477.5
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1381.1	1377.3	1371.9	1363.7	1357.2	1346.8	1346.8	1348.5	1348.5	1347.9	1346.8
5°	1339.2	1329.0	1316.8	1302.5	1287.5	1272.5	1269.8	1264.4	1260.3	1257.5	1254.1
7.5°	1295.0	1276.9	1259.0	1239.0	1220.8	1205.7	1195.2	1186.5	1180.9	1174.9	1170.6
10°	1265.0	1242.6	1221.5	1200.4	1177.2	1158.9	1147.3	1139.1	1133.0	1127.6	1124.9
12.5°	1229.6	1203.9	1180.7	1160.6	1135.3	1116.4	1105.4	1101.6	1094.4	1082.9	1076.9
15°	1177.9	1154.1	1126.2	1095.6	1083.3	1060.2	1047.3	1041.2	1037.1	1028.2	1025.5
17.5°	1133.7	1102.5	1071.2	1048.4	1025.6	1006.9	999.6	992.0	986.6	979.4	977.2
20°	1098.3	1070.4	1041.8	1017.3	993.5	973.1	967.0	961.5	956.1	952.7	950.0
22.5°	1062.4	1034.5	1010.8	987.9	962.5	949.1	942.5	936.5	932.7	930.4	927.6
25°	1011.9	987.4	960.9	940.4	920.0	911.2	907.1	903.7	901.0	897.6	896.9
27.5°	966.7	940.0	918.5	899.5	884.8	877.4	873.5	871.8	872.4	873.6	874.4
30°	933.0	908.5	890.8	874.4	860.8	854.0	853.3	853.3	856.1	856.7	858.1
32.5°	901.9	881.8	864.1	848.3	838.0	833.3	835.9	835.9	838.1	839.9	842.3
35°	856.7	839.0	825.4	811.8	803.0	805.0	806.4	807.7	811.1	815.2	818.0
37.5°	813.6	798.2	784.1	773.4	769.4	773.0	776.3	779.2	783.1	786.2	789.0
40°	782.6	771.0	757.4	747.9	749.2	751.3	754.0	757.4	760.8	762.8	765.6
42.5°	753.7	741.6	731.3	723.4	725.3	727.9	729.5	731.3	735.2	738.9	740.5
45°	709.8	700.2	690.7	685.9	687.3	688.7	690.0	692.1	695.5	698.2	698.9
47.5°	660.3	653.7	647.3	642.7	644.8	644.3	646.1	650.4	651.5	653.1	656.9
50°	628.8	622.6	615.2	613.8	613.8	613.8	614.5	619.9	619.9	622.6	625.4
52.5°	593.9	590.0	585.2	582.8	581.7	581.7	584.5	587.3	588.4	592.2	594.9
55°	542.4	538.3	534.2	532.1	530.8	532.1	537.6	538.9	542.4	544.4	546.4
57.5°	488.6	485.5	482.2	481.1	480.8	482.6	485.6	489.7	490.5	496.8	499.9
60°	453.2	448.4	445.7	445.7	444.4	450.5	449.1	455.9	457.3	461.4	466.1
62.5°	416.7	410.3	409.2	409.2	411.2	412.9	414.8	417.8	421.4	426.5	430.2
65°	357.9	354.5	359.3	358.6	357.3	361.3	361.3	364.7	368.8	373.6	381.1
67.5°	302.3	300.5	300.9	300.9	303.0	305.3	307.2	310.2	315.1	320.1	325.0
70°	264.7	266.8	263.4	266.1	268.1	268.8	270.2	274.2	279.7	283.1	288.5
72.5°	228.2	228.1	228.5	229.6	231.6	232.9	234.2	238.9	244.8	247.7	252.1
75°	175.6	174.9	176.9	176.9	180.3	181.7	183.1	185.1	190.5	194.6	198.0
77.5°	128.2	129.0	128.6	130.9	130.0	130.2	134.5	136.5	137.1	145.1	146.9
80°	96.6	98.0	98.7	99.4	100.0	98.7	103.4	105.5	105.5	110.2	113.6
82.5°	69.4	70.2	72.0	72.7	72.8	74.2	74.6	76.1	77.7	79.8	84.2
85°	34.7	36.7	37.4	36.7	37.4	36.1	38.1	38.8	39.5	39.5	39.5
87.5°	13.2	14.3	14.5	15.7	15.8	17.0	17.2	16.3	16.5	18.4	16.4
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0	31.0	32.0	32.8
92.5°	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3	47.1	47.9	48.2
95°	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0	89.1	90.1	90.6
97.5°	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9	138.1	139.3	139.8
100°	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3	173.1	173.9	174.5
102.5°	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2	214.0	214.8	215.1
105°	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2	274.2	274.2	274.5
107.5°	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2	341.1	341.9	342.1
110°	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3	385.4	386.4	386.6



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CATALOG NUMBER: S123DIP-S1000D1195U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4	429.7	430.9	431.5
115°	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5	495.7	496.0	496.0
117.5°	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2	563.1	563.1	562.7
120°	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3	608.1	607.8	607.4
122.5°	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0	653.3	652.6	651.9
125°	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8	720.8	719.7	718.7
127.5°	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8	787.4	785.9	784.6
130°	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3	832.3	831.3	829.8
132.5°	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6	875.4	874.1	872.8
135°	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4	940.3	939.3	938.5
137.5°	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7	1003.6	1002.5	1001.5
140°	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1044.8
142.5°	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4	1085.1	1084.9	1084.0
145°	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8	1142.5	1142.3	1141.6
147.5°	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4	1230.4	1230.4	1229.7
152.5°	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0	1261.4	1261.8	1261.4
155°	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7	1306.7	1307.8	1307.4
157.5°	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1	1345.2	1346.3	1346.1
160°	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8	1369.1	1370.4	1370.5
162.5°	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1	1391.4	1392.7	1392.5
165°	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3	1419.8	1421.4	1421.2
167.5°	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3
170°	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3
172.5°	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5	1465.1	1466.7	1466.6
175°	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0	1475.6	1477.1	1477.0
177.5°	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8	1480.0	1481.2	1481.1
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1343.0	1342.5	1346.3	1343.6	1346.3	1342.5	1343.0	1346.8	1347.9	1348.5	1348.5
5°	1250.1	1252.1	1245.3	1245.3	1245.3	1252.1	1250.1	1254.1	1257.5	1260.3	1264.4
7.5°	1167.3	1164.3	1164.6	1160.9	1164.6	1164.3	1167.3	1170.6	1174.9	1180.9	1186.5
10°	1116.7	1112.6	1111.2	1111.9	1111.2	1112.6	1116.7	1124.9	1127.6	1133.0	1139.1
12.5°	1074.8	1074.0	1065.0	1065.1	1065.0	1074.0	1074.8	1076.9	1082.9	1094.4	1101.6
15°	1025.5	1012.6	1011.2	1015.3	1011.2	1012.6	1025.5	1025.5	1028.2	1037.1	1041.2
17.5°	976.1	969.3	969.7	967.7	969.7	969.3	976.1	977.2	979.4	986.6	992.0
20°	950.0	945.9	945.2	940.4	945.2	945.9	950.0	950.0	952.7	956.1	961.5
22.5°	926.0	924.7	925.1	919.8	925.1	924.7	926.0	927.6	930.4	932.7	936.5
25°	896.2	899.6	896.9	896.9	896.9	899.6	896.2	896.9	897.6	901.0	903.7
27.5°	876.1	875.9	874.6	874.6	874.6	875.9	876.1	874.4	873.6	872.4	871.8
30°	860.8	860.1	861.5	861.5	861.5	860.1	860.8	858.1	856.7	856.1	853.3
32.5°	845.6	846.5	846.8	847.3	846.8	846.5	845.6	842.3	839.9	838.1	835.9
35°	822.0	822.7	824.8	823.4	824.8	822.7	822.0	818.0	815.2	811.1	807.7
37.5°	790.2	793.3	792.6	793.7	792.6	793.3	790.2	789.0	786.2	783.1	779.2
40°	766.2	768.3	767.6	767.6	767.6	768.3	766.2	765.6	762.8	760.8	757.4
42.5°	741.7	743.2	741.5	740.4	741.5	743.2	741.7	740.5	738.9	735.2	731.3
45°	701.6	700.2	702.3	699.5	702.3	700.2	701.6	698.9	698.2	695.5	692.1
47.5°	656.7	658.0	658.6	660.6	658.6	658.0	656.7	656.9	653.1	651.5	650.4
50°	626.7	630.8	630.8	630.1	630.8	630.8	626.7	625.4	622.6	619.9	619.9
52.5°	597.3	599.2	602.0	601.8	602.0	599.2	597.3	594.9	592.2	588.4	587.3
55°	551.9	553.2	554.6	555.3	554.6	553.2	551.9	546.4	544.4	542.4	538.9
57.5°	504.8	504.2	507.5	508.5	507.5	504.2	504.8	499.9	496.8	490.5	489.7
60°	471.6	471.6	477.0	479.1	477.0	471.6	471.6	466.1	461.4	457.3	455.9
62.5°	436.2	438.4	443.8	441.0	443.8	438.4	436.2	430.2	426.5	421.4	417.8
65°	384.5	389.9	389.2	392.0	389.2	389.9	384.5	381.1	373.6	368.8	364.7
67.5°	330.4	333.8	338.7	339.2	338.7	333.8	330.4	325.0	320.1	315.1	310.2
70°	294.0	297.4	300.1	302.1	300.1	297.4	294.0	288.5	283.1	279.7	274.2
72.5°	258.6	260.4	266.9	264.0	266.9	260.4	258.6	252.1	247.7	244.8	238.9
75°	202.8	207.5	211.6	209.6	211.6	207.5	202.8	198.0	194.6	190.5	185.1
77.5°	150.0	154.7	156.6	154.9	156.6	154.7	150.0	146.9	145.1	137.1	136.5
80°	118.4	117.7	121.8	121.1	121.8	117.7	118.4	113.6	110.2	105.5	105.5
82.5°	86.8	86.2	88.1	88.5	88.1	86.2	86.8	84.2	79.8	77.7	76.1
85°	42.2	44.2	41.5	40.8	41.5	44.2	42.2	39.5	39.5	39.5	38.8
87.5°	16.5	16.6	16.1	15.7	16.1	16.6	16.5	16.4	18.4	16.5	16.3
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0
92.5°	47.9	47.6	47.2	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3
95°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0
97.5°	139.7	139.6	139.5	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9
100°	175.1	175.6	176.1	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3
102.5°	215.0	214.9	214.8	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2
105°	275.0	275.5	276.0	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2
107.5°	341.8	341.5	341.2	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2
110°	386.1	385.6	385.1	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	431.4	431.3	431.2	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4
115°	495.7	495.5	495.2	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5
117.5°	562.0	561.2	560.5	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2
120°	606.9	606.4	605.9	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3
122.5°	651.2	650.5	649.7	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0
125°	717.7	716.6	715.6	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8
127.5°	783.4	782.2	781.0	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8
130°	828.0	826.2	824.4	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3
132.5°	871.4	870.0	868.6	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6
135°	938.0	937.5	937.0	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4
137.5°	1000.5	999.6	998.6	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7
140°	1043.0	1041.2	1039.4	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3
142.5°	1082.6	1081.2	1079.9	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4
145°	1140.6	1139.5	1138.5	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8
147.5°	1194.6	1193.1	1191.5	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0
150°	1228.1	1226.6	1225.0	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4
152.5°	1260.0	1258.7	1257.3	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0
155°	1305.6	1303.8	1302.0	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7
157.5°	1344.7	1343.2	1341.8	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1
160°	1369.5	1368.4	1367.4	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8
162.5°	1390.8	1389.2	1387.5	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1
165°	1419.4	1417.6	1415.8	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3
167.5°	1442.7	1441.1	1439.5	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1
170°	1455.5	1453.6	1451.8	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6
172.5°	1464.7	1462.9	1461.1	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5
175°	1475.2	1473.4	1471.6	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0
177.5°	1479.7	1478.2	1476.8	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1346.8	1346.8	1357.2	1363.7	1371.9	1377.3	1381.1	1384.9	1391.5	1400.2	1410.0
5°	1269.8	1272.5	1287.5	1302.5	1316.8	1329.0	1339.2	1351.5	1366.4	1384.8	1405.2
7.5°	1195.2	1205.7	1220.8	1239.0	1259.0	1276.9	1295.0	1315.1	1336.2	1363.3	1391.9
10°	1147.3	1158.9	1177.2	1200.4	1221.5	1242.6	1265.0	1286.8	1313.3	1345.3	1382.1
12.5°	1105.4	1116.4	1135.3	1160.6	1180.7	1203.9	1229.6	1258.0	1287.8	1326.3	1367.9
15°	1047.3	1060.2	1083.3	1095.6	1126.2	1154.1	1177.9	1218.8	1256.9	1296.3	1344.7
17.5°	999.6	1006.9	1025.6	1048.4	1071.2	1102.5	1133.7	1167.7	1205.7	1254.0	1314.4
20°	967.0	973.1	993.5	1017.3	1041.8	1070.4	1098.3	1132.3	1175.2	1226.2	1291.6
22.5°	942.5	949.1	962.5	987.9	1010.8	1034.5	1062.4	1102.9	1148.5	1198.5	1269.3
25°	907.1	911.2	920.0	940.4	960.9	987.4	1011.9	1050.0	1097.0	1155.5	1226.2
27.5°	873.5	877.4	884.8	899.5	918.5	940.0	966.7	999.1	1046.7	1110.3	1185.4
30°	853.3	854.0	860.8	874.4	890.8	908.5	933.0	969.7	1014.6	1079.3	1158.2
32.5°	835.9	833.3	838.0	848.3	864.1	881.8	901.9	938.1	981.4	1045.0	1126.1
35°	806.4	805.0	803.0	811.8	825.4	839.0	856.7	884.0	933.0	992.2	1077.2
37.5°	776.3	773.0	769.4	773.4	784.1	798.2	813.6	837.8	880.0	945.2	1026.6
40°	754.0	751.3	749.2	747.9	757.4	771.0	782.6	805.7	845.2	907.1	987.4
42.5°	729.5	727.9	725.3	723.4	731.3	741.6	753.7	774.1	813.6	871.7	947.7
45°	690.0	688.7	687.3	685.9	690.7	700.2	709.8	724.7	758.7	815.2	884.0
47.5°	646.1	644.3	644.8	642.7	647.3	653.7	660.3	676.4	709.1	754.7	804.9
50°	614.5	613.8	613.8	613.8	615.2	622.6	628.8	641.0	671.0	716.6	752.6
52.5°	584.5	581.7	581.7	582.8	585.2	590.0	593.9	607.3	633.4	670.8	703.6
55°	537.6	532.1	530.8	532.1	534.2	538.3	542.4	553.2	575.7	603.6	622.6
57.5°	485.6	482.6	480.8	481.1	482.2	485.5	488.6	500.4	518.1	532.7	544.9
60°	449.1	450.5	444.4	445.7	445.7	448.4	453.2	460.7	475.7	485.9	498.1
62.5°	414.8	412.9	411.2	409.2	409.2	410.3	416.7	422.6	435.4	440.7	450.2
65°	361.3	361.3	357.3	358.6	359.3	354.5	357.9	364.7	372.9	375.0	383.8
67.5°	307.2	305.3	303.0	300.9	300.9	300.5	302.3	305.7	311.8	312.5	319.3
70°	270.2	268.8	268.1	266.1	263.4	266.8	264.7	268.1	271.5	272.2	276.3
72.5°	234.2	232.9	231.6	229.6	228.5	228.1	228.2	232.2	234.5	233.5	238.2
75°	183.1	181.7	180.3	176.9	176.9	174.9	175.6	178.3	181.0	179.0	183.1
77.5°	134.5	130.2	130.0	130.9	128.6	129.0	128.2	127.8	129.0	129.2	132.8
80°	103.4	98.7	100.0	99.4	98.7	98.0	96.6	97.3	98.0	98.7	100.7
82.5°	74.6	74.2	72.8	72.7	72.0	70.2	69.4	70.6	71.3	70.9	72.4
85°	38.1	36.1	37.4	36.7	37.4	36.7	34.7	34.7	36.1	35.4	36.7
87.5°	17.2	17.0	15.8	15.7	14.5	14.3	13.2	13.2	13.2	12.7	13.3
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	45.4	44.6	42.7	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1
95°	87.0	86.0	83.9	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6
97.5°	135.7	134.5	133.0	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8
100°	171.6	170.8	169.5	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0
102.5°	212.5	211.7	210.0	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8
105°	274.2	274.2	271.9	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4
107.5°	339.4	338.6	337.6	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0
110°	383.3	382.3	381.7	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.2	425.9	425.8	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1
115°	495.2	495.0	495.5	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8
117.5°	563.2	563.3	564.0	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0
120°	608.6	608.8	610.1	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7
122.5°	654.6	655.3	656.0	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2
125°	722.8	723.9	724.4	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7
127.5°	790.3	791.7	792.3	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8
130°	834.4	835.4	836.2	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6
132.5°	877.8	879.1	879.6	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3
135°	942.4	943.4	943.7	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6
137.5°	1005.8	1006.9	1006.2	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1
140°	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9
142.5°	1085.6	1085.9	1085.4	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0
145°	1143.0	1143.3	1142.5	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5
147.5°	1197.0	1197.0	1196.2	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5
150°	1230.4	1230.4	1229.9	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8
152.5°	1260.6	1260.2	1259.9	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5
155°	1304.7	1303.6	1303.4	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1343.1	1342.0	1341.8	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4
160°	1366.5	1365.2	1365.2	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5
162.5°	1388.8	1387.5	1387.3	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8
165°	1416.7	1415.2	1415.2	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7
167.5°	1439.5	1437.9	1437.7	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7
170°	1451.8	1450.0	1450.0	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7
172.5°	1461.9	1460.3	1460.3	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9
175°	1472.5	1470.9	1470.9	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6
177.5°	1477.5	1476.3	1476.3	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1413.2	1416.0	1425.2	1431.8	1439.4	1443.7	1448.1	1451.4	1455.7	1456.8	1472.6
5°	1419.5	1433.1	1456.9	1474.6	1496.4	1520.2	1536.5	1544.0	1563.8	1580.1	1612.8
7.5°	1417.7	1446.7	1482.7	1519.9	1560.0	1597.0	1629.1	1667.2	1694.3	1735.0	1775.1
10°	1416.1	1454.9	1501.2	1548.8	1604.6	1656.3	1702.6	1754.3	1797.2	1853.7	1902.0
12.5°	1411.2	1458.2	1522.4	1578.7	1646.5	1717.8	1786.4	1852.8	1890.8	1984.9	2029.4
15°	1399.1	1454.9	1535.2	1620.9	1714.2	1798.5	1885.6	1955.1	2067.3	2149.7	2202.1
17.5°	1376.0	1454.1	1549.3	1652.8	1766.1	1877.3	1976.0	2081.4	2200.4	2300.1	2406.2
20°	1365.1	1450.8	1557.0	1671.3	1789.0	1914.9	2027.2	2153.8	2283.7	2381.7	2517.8
22.5°	1344.9	1442.1	1556.4	1683.8	1809.7	1939.9	2071.3	2198.9	2349.1	2484.1	2613.6
25°	1312.0	1420.9	1539.3	1681.5	1829.2	1959.8	2117.0	2286.5	2443.0	2616.5	2745.8
27.5°	1277.4	1393.6	1512.3	1644.6	1803.4	1958.5	2156.2	2347.7	2539.0	2688.9	2784.6
30°	1250.7	1363.7	1486.2	1619.6	1776.8	1961.2	2182.3	2391.2	2577.7	2706.3	2760.1
32.5°	1221.9	1336.5	1444.8	1584.7	1752.3	1959.5	2198.7	2416.8	2579.9	2665.5	2655.0
35°	1176.6	1272.5	1378.0	1512.7	1710.1	1947.6	2208.2	2419.1	2519.2	2500.8	2362.0
37.5°	1111.2	1191.9	1295.8	1443.3	1661.1	1922.4	2189.1	2347.4	2340.9	2191.3	1990.2
40°	1070.4	1139.1	1239.2	1394.3	1623.0	1906.1	2159.2	2262.0	2174.9	1965.9	1725.0
42.5°	1017.1	1080.3	1180.4	1339.9	1581.1	1872.8	2102.0	2131.8	1961.4	1721.0	1500.2
45°	934.3	990.1	1093.5	1258.2	1518.2	1800.6	1962.5	1889.7	1660.4	1412.0	1243.9
47.5°	845.4	903.4	1002.9	1172.1	1427.3	1691.8	1769.0	1614.1	1378.7	1177.2	1022.9
50°	789.4	845.2	942.5	1113.3	1365.7	1602.6	1634.5	1434.5	1218.1	1041.2	914.6
52.5°	732.8	785.3	881.0	1052.3	1293.9	1499.1	1479.4	1275.5	1076.5	925.7	826.4
55°	648.5	698.2	789.4	950.0	1169.8	1332.4	1261.0	1066.3	901.7	784.6	709.1
57.5°	573.1	620.7	699.4	844.5	1035.6	1147.3	1056.4	892.4	761.5	671.4	615.0
60°	521.9	564.1	639.0	773.7	939.8	1024.8	935.0	790.1	679.8	607.7	557.3
62.5°	473.5	510.2	579.6	701.9	846.1	917.6	826.7	704.0	610.1	546.2	503.4
65°	400.1	433.5	494.7	590.0	708.4	756.0	677.8	578.4	505.6	458.0	429.4
67.5°	333.2	361.5	414.4	489.4	576.5	611.2	551.6	474.7	419.9	381.6	358.9
70°	288.5	313.0	354.5	419.2	498.1	524.7	468.9	405.6	365.4	334.8	313.7
72.5°	251.0	268.9	306.6	356.6	422.4	443.5	404.6	349.0	311.5	288.5	271.8
75°	191.2	206.2	230.7	270.8	316.4	328.7	299.4	264.7	239.5	223.2	210.3
77.5°	137.9	148.9	166.6	191.4	222.9	234.0	215.4	192.3	173.9	162.9	155.7
80°	104.1	113.0	127.9	148.3	167.4	173.5	162.6	144.9	132.0	125.9	119.8
82.5°	76.9	81.9	90.9	104.8	117.9	125.1	115.8	105.2	98.3	92.7	90.4
85°	38.8	41.5	45.6	51.0	59.2	61.9	58.5	55.8	51.7	48.3	48.3
87.5°	14.9	15.4	17.6	19.2	21.9	24.3	24.4	24.0	24.1	23.7	23.4
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0
92.5°	29.9	31.6	33.4	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3
95°	70.4	72.2	74.0	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0
97.5°	123.1	124.5	125.8	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9
100°	159.6	161.1	162.7	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3
102.5°	200.8	201.7	202.6	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2
105°	261.9	262.5	263.0	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2
107.5°	333.3	333.6	333.9	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2
110°	378.1	378.6	379.2	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.4	424.7	425.0	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4
115°	494.6	495.3	496.1	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5
117.5°	564.5	565.0	565.5	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2
120°	609.2	610.8	612.3	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3
122.5°	654.3	655.5	656.6	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0
125°	723.5	724.2	725.0	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8
127.5°	788.5	790.1	791.8	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8
130°	831.6	833.7	835.8	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3
132.5°	874.4	876.5	878.5	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6
135°	939.2	940.7	942.3	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4
137.5°	999.3	1000.6	1001.9	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7
140°	1041.2	1042.5	1043.8	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3
142.5°	1079.3	1080.6	1081.9	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4
145°	1138.0	1138.5	1139.0	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8
147.5°	1190.5	1191.4	1192.3	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0
150°	1226.3	1226.8	1227.3	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4
152.5°	1256.3	1257.0	1257.7	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0
155°	1302.5	1302.5	1302.5	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7
157.5°	1342.1	1341.8	1341.5	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1
160°	1367.0	1366.5	1366.0	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8
162.5°	1389.1	1388.4	1387.7	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1
165°	1417.9	1417.1	1416.3	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3
167.5°	1440.6	1439.6	1438.6	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1
170°	1453.6	1452.6	1451.6	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6
172.5°	1463.9	1462.8	1461.8	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5
175°	1474.6	1473.5	1472.5	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0
177.5°	1479.2	1478.4	1477.5	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1478.0	1478.6	1484.6	1488.9	1486.7	1489.5	1490.5
5°	1614.8	1639.3	1652.2	1661.8	1662.4	1663.1	1668.6
7.5°	1808.7	1835.0	1854.2	1883.3	1892.0	1902.0	1899.1
10°	1950.3	1989.1	2022.4	2040.1	2059.2	2087.1	2064.6
12.5°	2082.6	2151.3	2202.1	2229.6	2247.5	2253.1	2242.1
15°	2300.7	2390.6	2438.9	2437.5	2498.8	2525.3	2483.8
17.5°	2500.8	2583.7	2650.1	2684.1	2735.2	2746.5	2741.3
20°	2623.3	2713.8	2765.5	2824.0	2850.6	2874.4	2878.5
22.5°	2728.9	2810.2	2865.7	2914.4	2936.6	2947.9	2954.7
25°	2837.6	2901.6	2935.0	2952.0	2958.1	2956.7	2947.9
27.5°	2830.2	2835.1	2798.3	2762.3	2730.0	2693.7	2681.1
30°	2756.7	2699.5	2597.4	2539.6	2454.5	2387.2	2414.4
32.5°	2563.4	2449.6	2335.0	2208.6	2103.9	2074.1	2044.2
35°	2187.8	1987.7	1870.7	1734.6	1680.1	1625.7	1588.3
37.5°	1770.0	1615.2	1476.4	1387.4	1332.8	1298.4	1279.9
40°	1530.4	1390.9	1276.6	1204.5	1163.0	1124.2	1118.7
42.5°	1339.3	1209.6	1123.6	1066.2	1026.3	1009.8	997.9
45°	1097.0	1006.4	948.6	907.8	881.2	871.0	857.4
47.5°	928.5	864.5	821.1	793.3	773.3	765.7	764.6
50°	834.3	781.2	749.2	727.4	711.8	709.1	698.2
52.5°	763.5	717.5	692.6	673.6	662.3	654.6	651.4
55°	662.8	632.2	609.7	598.8	590.0	582.5	582.5
57.5°	579.9	554.3	539.5	530.2	527.5	522.2	518.8
60°	528.7	507.0	495.4	487.2	481.8	482.5	476.3
62.5°	478.7	464.5	453.5	445.3	438.8	438.9	439.3
65°	407.6	396.7	388.6	385.8	381.8	377.0	378.4
67.5°	345.4	335.2	328.8	324.2	322.8	320.2	324.2
70°	300.8	293.3	288.5	284.4	283.1	283.8	287.2
72.5°	259.9	254.6	251.5	249.6	246.6	246.7	249.1
75°	204.1	200.1	197.3	195.3	194.6	194.6	194.6
77.5°	150.0	149.0	147.8	144.8	144.9	145.8	145.9
80°	118.4	116.4	115.7	114.3	112.3	110.9	114.3
82.5°	88.5	86.4	85.7	85.5	82.3	82.1	84.9
85°	47.6	45.6	46.3	45.6	45.6	44.9	44.9
87.5°	23.1	22.7	22.3	23.0	22.6	22.1	23.3
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	47.1	47.9	48.2	47.9	47.6	47.2	46.9
95°	89.1	90.1	90.6	90.6	90.6	90.6	90.6
97.5°	138.1	139.3	139.8	139.7	139.6	139.5	139.4
100°	173.1	173.9	174.5	175.1	175.6	176.1	176.6
102.5°	214.0	214.8	215.1	215.0	214.9	214.8	214.7
105°	274.2	274.2	274.5	275.0	275.5	276.0	276.5
107.5°	341.1	341.9	342.1	341.8	341.5	341.2	340.9
110°	385.4	386.4	386.6	386.1	385.6	385.1	384.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	429.7	430.9	431.5	431.4	431.3	431.2	431.1
115°	495.7	496.0	496.0	495.7	495.5	495.2	495.0
117.5°	563.1	563.1	562.7	562.0	561.2	560.5	559.8
120°	608.1	607.8	607.4	606.9	606.4	605.9	605.3
122.5°	653.3	652.6	651.9	651.2	650.5	649.7	649.0
125°	720.8	719.7	718.7	717.7	716.6	715.6	714.6
127.5°	787.4	785.9	784.6	783.4	782.2	781.0	779.9
130°	832.3	831.3	829.8	828.0	826.2	824.4	822.6
132.5°	875.4	874.1	872.8	871.4	870.0	868.6	867.2
135°	940.3	939.3	938.5	938.0	937.5	937.0	936.5
137.5°	1003.6	1002.5	1001.5	1000.5	999.6	998.6	997.6
140°	1046.1	1045.8	1044.8	1043.0	1041.2	1039.4	1037.6
142.5°	1085.1	1084.9	1084.0	1082.6	1081.2	1079.9	1078.5
145°	1142.5	1142.3	1141.6	1140.6	1139.5	1138.5	1137.5
147.5°	1197.0	1197.0	1196.2	1194.6	1193.1	1191.5	1190.0
150°	1230.4	1230.4	1229.7	1228.1	1226.6	1225.0	1223.5
152.5°	1261.4	1261.8	1261.4	1260.0	1258.7	1257.3	1256.0
155°	1306.7	1307.8	1307.4	1305.6	1303.8	1302.0	1300.1
157.5°	1345.2	1346.3	1346.1	1344.7	1343.2	1341.8	1340.3
160°	1369.1	1370.4	1370.5	1369.5	1368.4	1367.4	1366.4
162.5°	1391.4	1392.7	1392.5	1390.8	1389.2	1387.5	1385.9
165°	1419.8	1421.4	1421.2	1419.4	1417.6	1415.8	1414.0
167.5°	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9
170°	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0
172.5°	1465.1	1466.7	1466.6	1464.7	1462.9	1461.1	1459.3
175°	1475.6	1477.1	1477.0	1475.2	1473.4	1471.6	1469.8
177.5°	1480.0	1481.2	1481.1	1479.7	1478.2	1476.8	1475.4
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1

(END OF REPORT)