

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: P332192

Luminaire Tested: **S123DIW-S1000D1030U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332192  
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: S123DIW-S1000D1030U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8365.7 lumens  
Efficiency: N/A  
Efficacy: 136.7 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

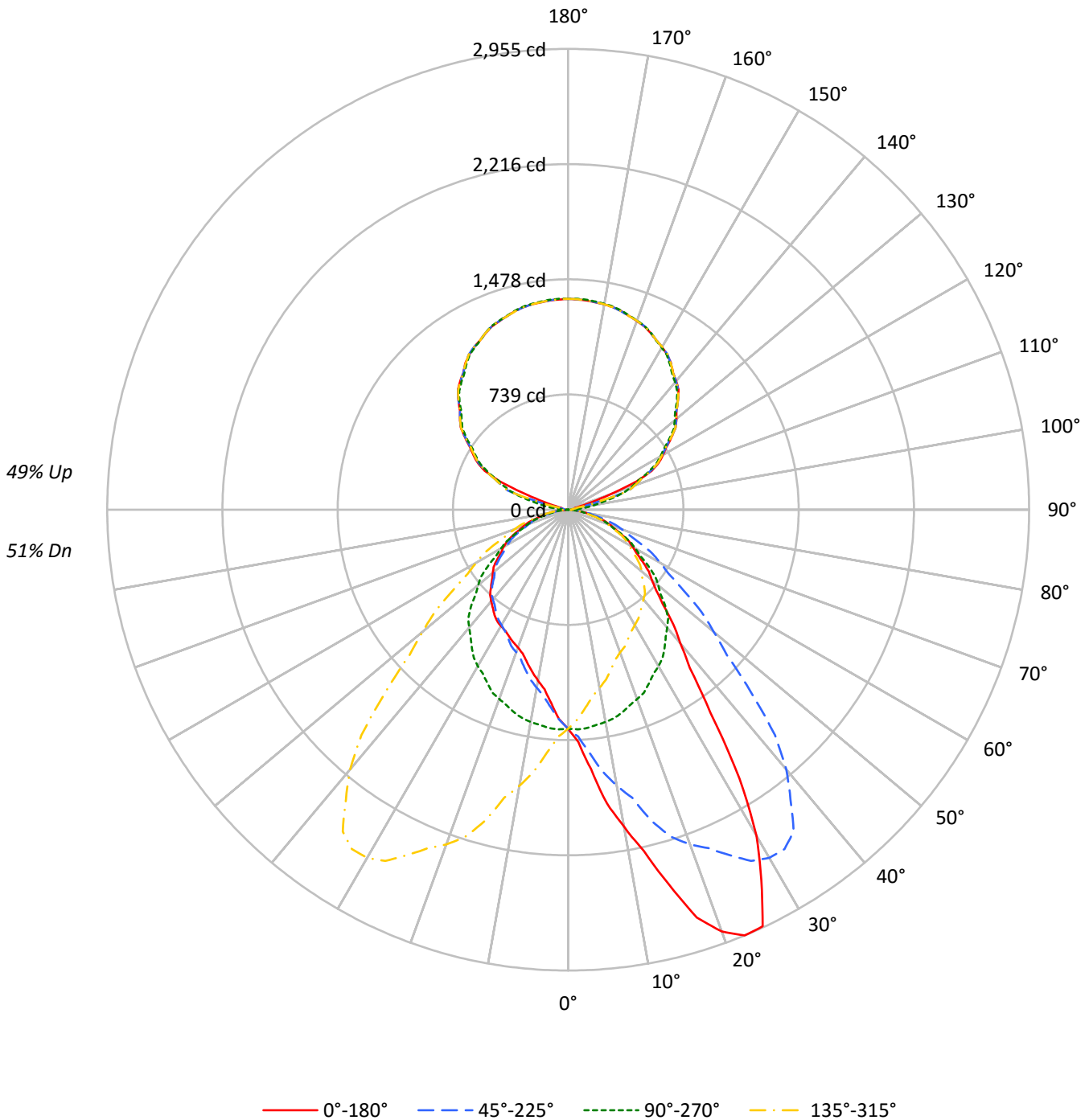
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	71	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	37	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	63	53	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	43	36	31	38	32	28	32	28	24	27	24	21	18
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	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	14

**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	9.0
50°-60°	610.1	7.3
60°-70°	425.2	5.1
70°-80°	223.5	2.7
80°-90°	58.4	0.7
90°-100°	49.2	0.6
100°-110°	234.3	2.8
110°-120°	562.7	6.7
120°-130°	716.5	8.6
130°-140°	765.6	9.2
140°-150°	715.9	8.6
150°-160°	577.5	6.9
160°-170°	372.7	4.5
170°-180°	128.4	1.5
0°-30°	1326.6	15.9
0°-40°	2169.7	25.9
0°-60°	3535.9	42.3
0°-90°	4242.9	50.7
90°-120°	846.1	10.1
90°-150°	3044.1	36.4
90°-180°	4123.0	49.3
0°-180°	8365.7	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°	30	1	30	1	30	16
95°	38	61	38	61	38	32
105°	44	299	44	299	44	101
115°	591	562	591	562	591	546
125°	808	792	808	792	808	721
135°	995	985	995	985	995	767
145°	1148	1137	1148	1137	1148	717
155°	1250	1252	1250	1252	1250	577
165°	1318	1321	1318	1321	1318	372
175°	1347	1352	1347	1352	1347	128
180°	1352	1352	1352	1352	1352	



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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°	22.4	21.2	21.6	22.1	21.5	21.9	22.2	22.6	23.0	23.3	23.3
90°	30.1	29.7	29.2	28.8	28.3	27.7	26.8	25.9	25.0	24.1	21.2
92.5°	33.3	33.1	32.8	32.5	32.3	31.4	30.0	28.6	27.1	25.7	23.5
95°	38.2	38.2	38.2	38.2	38.2	37.4	35.8	34.3	32.7	31.1	28.7
97.5°	41.4	41.2	40.9	40.7	40.5	39.5	37.7	35.9	34.1	32.3	48.4
100°	42.2	42.0	41.7	41.5	41.3	40.3	38.5	36.7	34.9	33.1	68.0
102.5°	43.0	42.6	42.2	41.8	41.4	43.9	49.5	55.0	60.6	66.1	104.1
105°	44.2	43.7	43.3	42.9	42.4	61.9	101.4	141.0	180.5	220.0	240.1
107.5°	138.8	168.6	198.4	228.1	257.9	287.3	316.3	345.2	374.2	403.2	400.0
110°	276.2	308.1	340.0	372.0	403.9	423.5	430.9	438.3	445.6	453.0	450.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	473.9	480.6	487.4	494.1	500.8	504.1	504.0	503.9	503.7	503.6	501.2
115°	590.6	589.7	588.8	587.9	587.0	585.5	583.2	581.0	578.8	576.5	574.5
117.5°	656.1	655.9	655.7	655.5	655.4	654.4	652.6	650.8	649.0	647.2	646.2
120°	701.1	701.1	701.1	701.1	701.1	700.2	698.4	696.6	694.8	693.0	692.4
122.5°	745.3	745.1	744.9	744.7	744.6	743.8	742.6	741.3	740.1	738.8	738.0
125°	807.5	807.1	806.6	806.2	805.8	805.3	804.9	804.4	804.0	803.5	802.6
127.5°	867.4	867.9	868.3	868.7	869.2	869.1	868.3	867.6	866.9	866.2	865.1
130°	906.0	906.4	906.9	907.3	907.8	907.5	906.6	905.8	904.9	904.0	903.1
132.5°	941.3	942.0	942.6	943.2	943.8	943.7	942.8	941.9	941.0	940.1	939.4
135°	995.4	996.0	996.7	997.4	998.0	998.0	997.4	996.7	996.0	995.4	994.5
137.5°	1046.2	1046.6	1047.1	1047.5	1048.0	1047.7	1046.6	1045.5	1044.4	1043.4	1042.9
140°	1076.7	1077.2	1077.6	1078.1	1078.5	1078.3	1077.4	1076.5	1075.6	1074.7	1074.0
142.5°	1104.8	1105.5	1106.1	1106.7	1107.3	1107.3	1106.6	1105.9	1105.2	1104.4	1103.8
145°	1148.0	1148.0	1148.0	1148.0	1148.0	1147.8	1147.4	1146.9	1146.5	1146.0	1145.6
147.5°	1180.2	1181.2	1182.2	1183.3	1184.3	1184.6	1184.1	1183.7	1183.2	1182.8	1182.3
150°	1204.3	1205.0	1205.6	1206.3	1207.0	1207.1	1206.6	1206.2	1205.7	1205.3	1204.8
152.5°	1223.6	1224.6	1225.6	1226.6	1227.7	1227.8	1227.0	1226.2	1225.4	1224.6	1224.3
155°	1250.5	1251.8	1253.2	1254.5	1255.8	1256.0	1254.8	1253.7	1252.6	1251.5	1251.3
157.5°	1273.2	1274.9	1276.7	1278.4	1280.1	1280.3	1279.0	1277.7	1276.3	1275.0	1275.2
160°	1287.6	1289.2	1290.8	1292.3	1293.9	1294.0	1292.7	1291.3	1290.0	1288.7	1288.9
162.5°	1301.3	1302.7	1304.1	1305.5	1306.8	1306.8	1305.3	1303.7	1302.2	1300.7	1300.9
165°	1317.8	1319.3	1320.9	1322.5	1324.0	1323.9	1322.1	1320.3	1318.6	1316.8	1317.0
167.5°	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8	1335.0	1333.2	1331.4	1329.6	1329.6
170°	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0	1342.2	1340.4	1338.6	1336.9	1336.9
172.5°	1340.9	1342.8	1344.8	1346.8	1348.7	1348.8	1347.0	1345.3	1343.5	1341.7	1341.5
175°	1346.9	1348.7	1350.5	1352.3	1354.1	1354.2	1352.6	1351.0	1349.5	1347.9	1347.7
177.5°	1348.7	1350.5	1352.3	1354.1	1355.9	1356.0	1354.6	1353.2	1351.8	1350.3	1350.1
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



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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°	23.8	23.8	21.6	18.9	17.3	15.2	14.8	13.3	12.6	13.1	13.0
90°	18.3	15.4	12.5	9.9	7.7	5.5	3.2	1.0	3.2	5.5	7.7
92.5°	21.3	19.2	17.0	16.2	16.8	17.4	18.1	18.7	18.1	17.4	16.8
95°	26.2	23.8	21.3	24.7	33.8	43.0	52.1	61.3	52.1	43.0	33.8
97.5°	64.5	80.6	96.6	106.7	110.8	114.9	119.0	123.1	119.0	114.9	110.8
100°	102.8	137.6	172.4	187.6	183.1	178.7	174.2	169.7	174.2	178.7	183.1
102.5°	142.2	180.2	218.2	235.6	232.4	229.2	226.0	222.8	226.0	229.2	232.4
105°	260.1	280.2	300.3	309.1	306.7	304.2	301.8	299.3	301.8	304.2	306.7
107.5°	396.8	393.7	390.5	387.9	386.0	384.0	382.0	380.1	382.0	384.0	386.0
110°	448.1	445.6	443.2	441.0	439.3	437.5	435.7	433.9	435.7	437.5	439.3





TEST NUMBER: P332192

CATALOG NUMBER: S123DIW-S1000D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	498.7	496.2	493.8	491.8	490.2	488.5	486.9	485.3	486.9	488.5	490.2
115°	572.5	570.5	568.5	566.8	565.5	564.1	562.8	561.5	562.8	564.1	565.5
117.5°	645.2	644.2	643.1	641.8	640.1	638.5	636.8	635.2	636.8	638.5	640.1
120°	691.7	691.0	690.4	689.0	687.0	685.0	683.0	681.0	683.0	685.0	687.0
122.5°	737.1	736.3	735.4	734.2	732.5	730.9	729.2	727.6	729.2	730.9	732.5
125°	801.7	800.8	800.0	798.6	796.8	795.0	793.3	791.5	793.3	795.0	796.8
127.5°	864.1	863.0	861.9	860.5	858.7	856.9	855.1	853.3	855.1	856.9	858.7
130°	902.2	901.3	900.4	899.1	897.3	895.5	893.7	891.9	893.7	895.5	897.3
132.5°	938.7	938.0	937.3	936.0	934.2	932.4	930.7	928.9	930.7	932.4	934.2
135°	993.6	992.7	991.8	990.7	989.3	988.0	986.7	985.3	986.7	988.0	989.3
137.5°	1042.4	1041.9	1041.4	1040.3	1038.6	1036.9	1035.2	1033.5	1035.2	1036.9	1038.6
140°	1073.4	1072.7	1072.0	1071.0	1069.7	1068.4	1067.0	1065.7	1067.0	1068.4	1069.7
142.5°	1103.1	1102.4	1101.8	1100.8	1099.4	1098.1	1096.7	1095.4	1096.7	1098.1	1099.4
145°	1145.1	1144.7	1144.2	1143.2	1141.7	1140.1	1138.5	1137.0	1138.5	1140.1	1141.7
147.5°	1181.9	1181.4	1181.0	1180.3	1179.2	1178.2	1177.2	1176.2	1177.2	1178.2	1179.2
150°	1204.4	1203.9	1203.5	1202.9	1202.3	1201.6	1200.9	1200.3	1200.9	1201.6	1202.3
152.5°	1224.0	1223.8	1223.5	1223.2	1222.9	1222.6	1222.3	1222.0	1222.3	1222.6	1222.9
155°	1251.0	1250.8	1250.6	1250.7	1251.2	1251.6	1252.0	1252.5	1252.0	1251.6	1251.2
157.5°	1275.4	1275.7	1275.9	1276.0	1276.1	1276.1	1276.2	1276.2	1276.2	1276.1	1276.1
160°	1289.1	1289.3	1289.5	1289.8	1290.0	1290.2	1290.4	1290.7	1290.4	1290.2	1290.0
162.5°	1301.2	1301.4	1301.6	1302.0	1302.6	1303.2	1303.7	1304.3	1303.7	1303.2	1302.6
165°	1317.2	1317.4	1317.7	1318.1	1318.8	1319.5	1320.1	1320.8	1320.1	1319.5	1318.8
167.5°	1329.6	1329.6	1329.6	1330.1	1331.0	1331.9	1332.8	1333.6	1332.8	1331.9	1331.0
170°	1336.9	1336.9	1336.9	1337.3	1338.2	1339.1	1340.0	1340.9	1340.0	1339.1	1338.2
172.5°	1341.3	1341.1	1341.0	1341.4	1342.5	1343.6	1344.6	1345.7	1344.6	1343.6	1342.5
175°	1347.5	1347.2	1347.0	1347.5	1348.6	1349.7	1350.8	1351.9	1350.8	1349.7	1348.6
177.5°	1350.0	1349.8	1349.6	1350.0	1350.9	1351.8	1352.6	1353.5	1352.6	1351.8	1350.9
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332192

CATALOG NUMBER: S123DIW-S1000D1030U835-4F0-1E-UDD-A

**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°	12.9	13.9	14.0	15.1	15.1	16.3	16.4	15.5	15.7	17.5	15.5
90°	9.9	12.5	15.4	18.3	21.2	24.1	25.0	25.9	26.8	27.7	28.3
92.5°	16.2	17.0	19.2	21.3	23.5	25.7	27.1	28.6	30.0	31.4	32.3
95°	24.7	21.3	23.8	26.2	28.7	31.1	32.7	34.3	35.8	37.4	38.2
97.5°	106.7	96.6	80.6	64.5	48.4	32.3	34.1	35.9	37.7	39.5	40.5
100°	187.6	172.4	137.6	102.8	68.0	33.1	34.9	36.7	38.5	40.3	41.3
102.5°	235.6	218.2	180.2	142.2	104.1	66.1	60.6	55.0	49.5	43.9	41.4
105°	309.1	300.3	280.2	260.1	240.1	220.0	180.5	141.0	101.4	61.9	42.4
107.5°	387.9	390.5	393.7	396.8	400.0	403.2	374.2	345.2	316.3	287.3	257.9
110°	441.0	443.2	445.6	448.1	450.5	453.0	445.6	438.3	430.9	423.5	403.9



TEST NUMBER: P332192

CATALOG NUMBER: S123DIW-S1000D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	491.8	493.8	496.2	498.7	501.2	503.6	503.7	503.9	504.0	504.1	500.8
115°	566.8	568.5	570.5	572.5	574.5	576.5	578.8	581.0	583.2	585.5	587.0
117.5°	641.8	643.1	644.2	645.2	646.2	647.2	649.0	650.8	652.6	654.4	655.4
120°	689.0	690.4	691.0	691.7	692.4	693.0	694.8	696.6	698.4	700.2	701.1
122.5°	734.2	735.4	736.3	737.1	738.0	738.8	740.1	741.3	742.6	743.8	744.6
125°	798.6	800.0	800.8	801.7	802.6	803.5	804.0	804.4	804.9	805.3	805.8
127.5°	860.5	861.9	863.0	864.1	865.1	866.2	866.9	867.6	868.3	869.1	869.2
130°	899.1	900.4	901.3	902.2	903.1	904.0	904.9	905.8	906.6	907.5	907.8
132.5°	936.0	937.3	938.0	938.7	939.4	940.1	941.0	941.9	942.8	943.7	943.8
135°	990.7	991.8	992.7	993.6	994.5	995.4	996.0	996.7	997.4	998.0	998.0
137.5°	1040.3	1041.4	1041.9	1042.4	1042.9	1043.4	1044.4	1045.5	1046.6	1047.7	1048.0
140°	1071.0	1072.0	1072.7	1073.4	1074.0	1074.7	1075.6	1076.5	1077.4	1078.3	1078.5
142.5°	1100.8	1101.8	1102.4	1103.1	1103.8	1104.4	1105.2	1105.9	1106.6	1107.3	1107.3
145°	1143.2	1144.2	1144.7	1145.1	1145.6	1146.0	1146.5	1146.9	1147.4	1147.8	1148.0
147.5°	1180.3	1181.0	1181.4	1181.9	1182.3	1182.8	1183.2	1183.7	1184.1	1184.6	1184.3
150°	1202.9	1203.5	1203.9	1204.4	1204.8	1205.3	1205.7	1206.2	1206.6	1207.1	1207.0
152.5°	1223.2	1223.5	1223.8	1224.0	1224.3	1224.6	1225.4	1226.2	1227.0	1227.8	1227.7
155°	1250.7	1250.6	1250.8	1251.0	1251.3	1251.5	1252.6	1253.7	1254.8	1256.0	1255.8
157.5°	1276.0	1275.9	1275.7	1275.4	1275.2	1275.0	1276.3	1277.7	1279.0	1280.3	1280.1
160°	1289.8	1289.5	1289.3	1289.1	1288.9	1288.7	1290.0	1291.3	1292.7	1294.0	1293.9
162.5°	1302.0	1301.6	1301.4	1301.2	1300.9	1300.7	1302.2	1303.7	1305.3	1306.8	1306.8
165°	1318.1	1317.7	1317.4	1317.2	1317.0	1316.8	1318.6	1320.3	1322.1	1323.9	1324.0
167.5°	1330.1	1329.6	1329.6	1329.6	1329.6	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8
170°	1337.3	1336.9	1336.9	1336.9	1336.9	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0
172.5°	1341.4	1341.0	1341.1	1341.3	1341.5	1341.7	1343.5	1345.3	1347.0	1348.8	1348.7
175°	1347.5	1347.0	1347.2	1347.5	1347.7	1347.9	1349.5	1351.0	1352.6	1354.2	1354.1
177.5°	1350.0	1349.6	1349.8	1350.0	1350.1	1350.3	1351.8	1353.2	1354.6	1356.0	1355.9
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332192

CATALOG NUMBER: S123DIW-S1000D1030U835-4F0-1E-UDD-A

**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°	15.6	15.6	15.2	14.7	15.2	15.6	15.6	15.5	17.5	15.7	15.5
90°	28.8	29.2	29.7	30.1	29.7	29.2	28.8	28.3	27.7	26.8	25.9
92.5°	32.5	32.8	33.1	33.3	33.1	32.8	32.5	32.3	31.4	30.0	28.6
95°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	37.4	35.8	34.3
97.5°	40.7	40.9	41.2	41.4	41.2	40.9	40.7	40.5	39.5	37.7	35.9
100°	41.5	41.7	42.0	42.2	42.0	41.7	41.5	41.3	40.3	38.5	36.7
102.5°	41.8	42.2	42.6	43.0	42.6	42.2	41.8	41.4	43.9	49.5	55.0
105°	42.9	43.3	43.7	44.2	43.7	43.3	42.9	42.4	61.9	101.4	141.0
107.5°	228.1	198.4	168.6	138.8	168.6	198.4	228.1	257.9	287.3	316.3	345.2
110°	372.0	340.0	308.1	276.2	308.1	340.0	372.0	403.9	423.5	430.9	438.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	494.1	487.4	480.6	473.9	480.6	487.4	494.1	500.8	504.1	504.0	503.9
115°	587.9	588.8	589.7	590.6	589.7	588.8	587.9	587.0	585.5	583.2	581.0
117.5°	655.5	655.7	655.9	656.1	655.9	655.7	655.5	655.4	654.4	652.6	650.8
120°	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	700.2	698.4	696.6
122.5°	744.7	744.9	745.1	745.3	745.1	744.9	744.7	744.6	743.8	742.6	741.3
125°	806.2	806.6	807.1	807.5	807.1	806.6	806.2	805.8	805.3	804.9	804.4
127.5°	868.7	868.3	867.9	867.4	867.9	868.3	868.7	869.2	869.1	868.3	867.6
130°	907.3	906.9	906.4	906.0	906.4	906.9	907.3	907.8	907.5	906.6	905.8
132.5°	943.2	942.6	942.0	941.3	942.0	942.6	943.2	943.8	943.7	942.8	941.9
135°	997.4	996.7	996.0	995.4	996.0	996.7	997.4	998.0	998.0	997.4	996.7
137.5°	1047.5	1047.1	1046.6	1046.2	1046.6	1047.1	1047.5	1048.0	1047.7	1046.6	1045.5
140°	1078.1	1077.6	1077.2	1076.7	1077.2	1077.6	1078.1	1078.5	1078.3	1077.4	1076.5
142.5°	1106.7	1106.1	1105.5	1104.8	1105.5	1106.1	1106.7	1107.3	1107.3	1106.6	1105.9
145°	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1147.8	1147.4	1146.9
147.5°	1183.3	1182.2	1181.2	1180.2	1181.2	1182.2	1183.3	1184.3	1184.6	1184.1	1183.7
150°	1206.3	1205.6	1205.0	1204.3	1205.0	1205.6	1206.3	1207.0	1207.1	1206.6	1206.2
152.5°	1226.6	1225.6	1224.6	1223.6	1224.6	1225.6	1226.6	1227.7	1227.8	1227.0	1226.2
155°	1254.5	1253.2	1251.8	1250.5	1251.8	1253.2	1254.5	1255.8	1256.0	1254.8	1253.7
157.5°	1278.4	1276.7	1274.9	1273.2	1274.9	1276.7	1278.4	1280.1	1280.3	1279.0	1277.7
160°	1292.3	1290.8	1289.2	1287.6	1289.2	1290.8	1292.3	1293.9	1294.0	1292.7	1291.3
162.5°	1305.5	1304.1	1302.7	1301.3	1302.7	1304.1	1305.5	1306.8	1306.8	1305.3	1303.7
165°	1322.5	1320.9	1319.3	1317.8	1319.3	1320.9	1322.5	1324.0	1323.9	1322.1	1320.3
167.5°	1335.0	1333.2	1331.4	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8	1335.0	1333.2
170°	1342.2	1340.4	1338.6	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0	1342.2	1340.4
172.5°	1346.8	1344.8	1342.8	1340.9	1342.8	1344.8	1346.8	1348.7	1348.8	1347.0	1345.3
175°	1352.3	1350.5	1348.7	1346.9	1348.7	1350.5	1352.3	1354.1	1354.2	1352.6	1351.0
177.5°	1354.1	1352.3	1350.5	1348.7	1350.5	1352.3	1354.1	1355.9	1356.0	1354.6	1353.2
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



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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°	16.4	16.3	15.1	15.1	14.0	13.9	12.9	13.0	13.1	12.6	13.3
90°	25.0	24.1	21.2	18.3	15.4	12.5	9.9	7.7	5.5	3.2	1.0
92.5°	27.1	25.7	23.5	21.3	19.2	17.0	16.2	16.8	17.4	18.1	18.7
95°	32.7	31.1	28.7	26.2	23.8	21.3	24.7	33.8	43.0	52.1	61.3
97.5°	34.1	32.3	48.4	64.5	80.6	96.6	106.7	110.8	114.9	119.0	123.1
100°	34.9	33.1	68.0	102.8	137.6	172.4	187.6	183.1	178.7	174.2	169.7
102.5°	60.6	66.1	104.1	142.2	180.2	218.2	235.6	232.4	229.2	226.0	222.8
105°	180.5	220.0	240.1	260.1	280.2	300.3	309.1	306.7	304.2	301.8	299.3
107.5°	374.2	403.2	400.0	396.8	393.7	390.5	387.9	386.0	384.0	382.0	380.1
110°	445.6	453.0	450.5	448.1	445.6	443.2	441.0	439.3	437.5	435.7	433.9



TEST NUMBER: P332192

CATALOG NUMBER: S123DIW-S1000D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	503.7	503.6	501.2	498.7	496.2	493.8	491.8	490.2	488.5	486.9	485.3
115°	578.8	576.5	574.5	572.5	570.5	568.5	566.8	565.5	564.1	562.8	561.5
117.5°	649.0	647.2	646.2	645.2	644.2	643.1	641.8	640.1	638.5	636.8	635.2
120°	694.8	693.0	692.4	691.7	691.0	690.4	689.0	687.0	685.0	683.0	681.0
122.5°	740.1	738.8	738.0	737.1	736.3	735.4	734.2	732.5	730.9	729.2	727.6
125°	804.0	803.5	802.6	801.7	800.8	800.0	798.6	796.8	795.0	793.3	791.5
127.5°	866.9	866.2	865.1	864.1	863.0	861.9	860.5	858.7	856.9	855.1	853.3
130°	904.9	904.0	903.1	902.2	901.3	900.4	899.1	897.3	895.5	893.7	891.9
132.5°	941.0	940.1	939.4	938.7	938.0	937.3	936.0	934.2	932.4	930.7	928.9
135°	996.0	995.4	994.5	993.6	992.7	991.8	990.7	989.3	988.0	986.7	985.3
137.5°	1044.4	1043.4	1042.9	1042.4	1041.9	1041.4	1040.3	1038.6	1036.9	1035.2	1033.5
140°	1075.6	1074.7	1074.0	1073.4	1072.7	1072.0	1071.0	1069.7	1068.4	1067.0	1065.7
142.5°	1105.2	1104.4	1103.8	1103.1	1102.4	1101.8	1100.8	1099.4	1098.1	1096.7	1095.4
145°	1146.5	1146.0	1145.6	1145.1	1144.7	1144.2	1143.2	1141.7	1140.1	1138.5	1137.0
147.5°	1183.2	1182.8	1182.3	1181.9	1181.4	1181.0	1180.3	1179.2	1178.2	1177.2	1176.2
150°	1205.7	1205.3	1204.8	1204.4	1203.9	1203.5	1202.9	1202.3	1201.6	1200.9	1200.3
152.5°	1225.4	1224.6	1224.3	1224.0	1223.8	1223.5	1223.2	1222.9	1222.6	1222.3	1222.0
155°	1252.6	1251.5	1251.3	1251.0	1250.8	1250.6	1250.7	1251.2	1251.6	1252.0	1252.5
157.5°	1276.3	1275.0	1275.2	1275.4	1275.7	1275.9	1276.0	1276.1	1276.1	1276.2	1276.2
160°	1290.0	1288.7	1288.9	1289.1	1289.3	1289.5	1289.8	1290.0	1290.2	1290.4	1290.7
162.5°	1302.2	1300.7	1300.9	1301.2	1301.4	1301.6	1302.0	1302.6	1303.2	1303.7	1304.3
165°	1318.6	1316.8	1317.0	1317.2	1317.4	1317.7	1318.1	1318.8	1319.5	1320.1	1320.8
167.5°	1331.4	1329.6	1329.6	1329.6	1329.6	1329.6	1330.1	1331.0	1331.9	1332.8	1333.6
170°	1338.6	1336.9	1336.9	1336.9	1336.9	1336.9	1337.3	1338.2	1339.1	1340.0	1340.9
172.5°	1343.5	1341.7	1341.5	1341.3	1341.1	1341.0	1341.4	1342.5	1343.6	1344.6	1345.7
175°	1349.5	1347.9	1347.7	1347.5	1347.2	1347.0	1347.5	1348.6	1349.7	1350.8	1351.9
177.5°	1351.8	1350.3	1350.1	1350.0	1349.8	1349.6	1350.0	1350.9	1351.8	1352.6	1353.5
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332192

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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°	14.8	15.2	17.3	18.9	21.6	23.8	23.8	23.3	23.3	23.0	22.6
90°	3.2	5.5	7.7	9.9	12.5	15.4	18.3	21.2	24.1	25.0	25.9
92.5°	18.1	17.4	16.8	16.2	17.0	19.2	21.3	23.5	25.7	27.1	28.6
95°	52.1	43.0	33.8	24.7	21.3	23.8	26.2	28.7	31.1	32.7	34.3
97.5°	119.0	114.9	110.8	106.7	96.6	80.6	64.5	48.4	32.3	34.1	35.9
100°	174.2	178.7	183.1	187.6	172.4	137.6	102.8	68.0	33.1	34.9	36.7
102.5°	226.0	229.2	232.4	235.6	218.2	180.2	142.2	104.1	66.1	60.6	55.0
105°	301.8	304.2	306.7	309.1	300.3	280.2	260.1	240.1	220.0	180.5	141.0
107.5°	382.0	384.0	386.0	387.9	390.5	393.7	396.8	400.0	403.2	374.2	345.2
110°	435.7	437.5	439.3	441.0	443.2	445.6	448.1	450.5	453.0	445.6	438.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	486.9	488.5	490.2	491.8	493.8	496.2	498.7	501.2	503.6	503.7	503.9
115°	562.8	564.1	565.5	566.8	568.5	570.5	572.5	574.5	576.5	578.8	581.0
117.5°	636.8	638.5	640.1	641.8	643.1	644.2	645.2	646.2	647.2	649.0	650.8
120°	683.0	685.0	687.0	689.0	690.4	691.0	691.7	692.4	693.0	694.8	696.6
122.5°	729.2	730.9	732.5	734.2	735.4	736.3	737.1	738.0	738.8	740.1	741.3
125°	793.3	795.0	796.8	798.6	800.0	800.8	801.7	802.6	803.5	804.0	804.4
127.5°	855.1	856.9	858.7	860.5	861.9	863.0	864.1	865.1	866.2	866.9	867.6
130°	893.7	895.5	897.3	899.1	900.4	901.3	902.2	903.1	904.0	904.9	905.8
132.5°	930.7	932.4	934.2	936.0	937.3	938.0	938.7	939.4	940.1	941.0	941.9
135°	986.7	988.0	989.3	990.7	991.8	992.7	993.6	994.5	995.4	996.0	996.7
137.5°	1035.2	1036.9	1038.6	1040.3	1041.4	1041.9	1042.4	1042.9	1043.4	1044.4	1045.5
140°	1067.0	1068.4	1069.7	1071.0	1072.0	1072.7	1073.4	1074.0	1074.7	1075.6	1076.5
142.5°	1096.7	1098.1	1099.4	1100.8	1101.8	1102.4	1103.1	1103.8	1104.4	1105.2	1105.9
145°	1138.5	1140.1	1141.7	1143.2	1144.2	1144.7	1145.1	1145.6	1146.0	1146.5	1146.9
147.5°	1177.2	1178.2	1179.2	1180.3	1181.0	1181.4	1181.9	1182.3	1182.8	1183.2	1183.7
150°	1200.9	1201.6	1202.3	1202.9	1203.5	1203.9	1204.4	1204.8	1205.3	1205.7	1206.2
152.5°	1222.3	1222.6	1222.9	1223.2	1223.5	1223.8	1224.0	1224.3	1224.6	1225.4	1226.2
155°	1252.0	1251.6	1251.2	1250.7	1250.6	1250.8	1251.0	1251.3	1251.5	1252.6	1253.7
157.5°	1276.2	1276.1	1276.1	1276.0	1275.9	1275.7	1275.4	1275.2	1275.0	1276.3	1277.7
160°	1290.4	1290.2	1290.0	1289.8	1289.5	1289.3	1289.1	1288.9	1288.7	1290.0	1291.3
162.5°	1303.7	1303.2	1302.6	1302.0	1301.6	1301.4	1301.2	1300.9	1300.7	1302.2	1303.7
165°	1320.1	1319.5	1318.8	1318.1	1317.7	1317.4	1317.2	1317.0	1316.8	1318.6	1320.3
167.5°	1332.8	1331.9	1331.0	1330.1	1329.6	1329.6	1329.6	1329.6	1329.6	1331.4	1333.2
170°	1340.0	1339.1	1338.2	1337.3	1336.9	1336.9	1336.9	1336.9	1336.9	1338.6	1340.4
172.5°	1344.6	1343.6	1342.5	1341.4	1341.0	1341.1	1341.3	1341.5	1341.7	1343.5	1345.3
175°	1350.8	1349.7	1348.6	1347.5	1347.0	1347.2	1347.5	1347.7	1347.9	1349.5	1351.0
177.5°	1352.6	1351.8	1350.9	1350.0	1349.6	1349.8	1350.0	1350.1	1350.3	1351.8	1353.2
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



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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°	22.2	21.9	21.5	22.1	21.6	21.2	22.4
90°	26.8	27.7	28.3	28.8	29.2	29.7	30.1
92.5°	30.0	31.4	32.3	32.5	32.8	33.1	33.3
95°	35.8	37.4	38.2	38.2	38.2	38.2	38.2
97.5°	37.7	39.5	40.5	40.7	40.9	41.2	41.4
100°	38.5	40.3	41.3	41.5	41.7	42.0	42.2
102.5°	49.5	43.9	41.4	41.8	42.2	42.6	43.0
105°	101.4	61.9	42.4	42.9	43.3	43.7	44.2
107.5°	316.3	287.3	257.9	228.1	198.4	168.6	138.8
110°	430.9	423.5	403.9	372.0	340.0	308.1	276.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	504.0	504.1	500.8	494.1	487.4	480.6	473.9
115°	583.2	585.5	587.0	587.9	588.8	589.7	590.6
117.5°	652.6	654.4	655.4	655.5	655.7	655.9	656.1
120°	698.4	700.2	701.1	701.1	701.1	701.1	701.1
122.5°	742.6	743.8	744.6	744.7	744.9	745.1	745.3
125°	804.9	805.3	805.8	806.2	806.6	807.1	807.5
127.5°	868.3	869.1	869.2	868.7	868.3	867.9	867.4
130°	906.6	907.5	907.8	907.3	906.9	906.4	906.0
132.5°	942.8	943.7	943.8	943.2	942.6	942.0	941.3
135°	997.4	998.0	998.0	997.4	996.7	996.0	995.4
137.5°	1046.6	1047.7	1048.0	1047.5	1047.1	1046.6	1046.2
140°	1077.4	1078.3	1078.5	1078.1	1077.6	1077.2	1076.7
142.5°	1106.6	1107.3	1107.3	1106.7	1106.1	1105.5	1104.8
145°	1147.4	1147.8	1148.0	1148.0	1148.0	1148.0	1148.0
147.5°	1184.1	1184.6	1184.3	1183.3	1182.2	1181.2	1180.2
150°	1206.6	1207.1	1207.0	1206.3	1205.6	1205.0	1204.3
152.5°	1227.0	1227.8	1227.7	1226.6	1225.6	1224.6	1223.6
155°	1254.8	1256.0	1255.8	1254.5	1253.2	1251.8	1250.5
157.5°	1279.0	1280.3	1280.1	1278.4	1276.7	1274.9	1273.2
160°	1292.7	1294.0	1293.9	1292.3	1290.8	1289.2	1287.6
162.5°	1305.3	1306.8	1306.8	1305.5	1304.1	1302.7	1301.3
165°	1322.1	1323.9	1324.0	1322.5	1320.9	1319.3	1317.8
167.5°	1335.0	1336.8	1336.8	1335.0	1333.2	1331.4	1329.6
170°	1342.2	1344.0	1344.0	1342.2	1340.4	1338.6	1336.9
172.5°	1347.0	1348.8	1348.7	1346.8	1344.8	1342.8	1340.9
175°	1352.6	1354.2	1354.1	1352.3	1350.5	1348.7	1346.9
177.5°	1354.6	1356.0	1355.9	1354.1	1352.3	1350.5	1348.7
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9

(END OF REPORT)