

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: P332354-935

Luminaire Tested: **S123RDIP-S1000D1195U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332354-935  
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: S123RDIP-S1000D1195U935-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

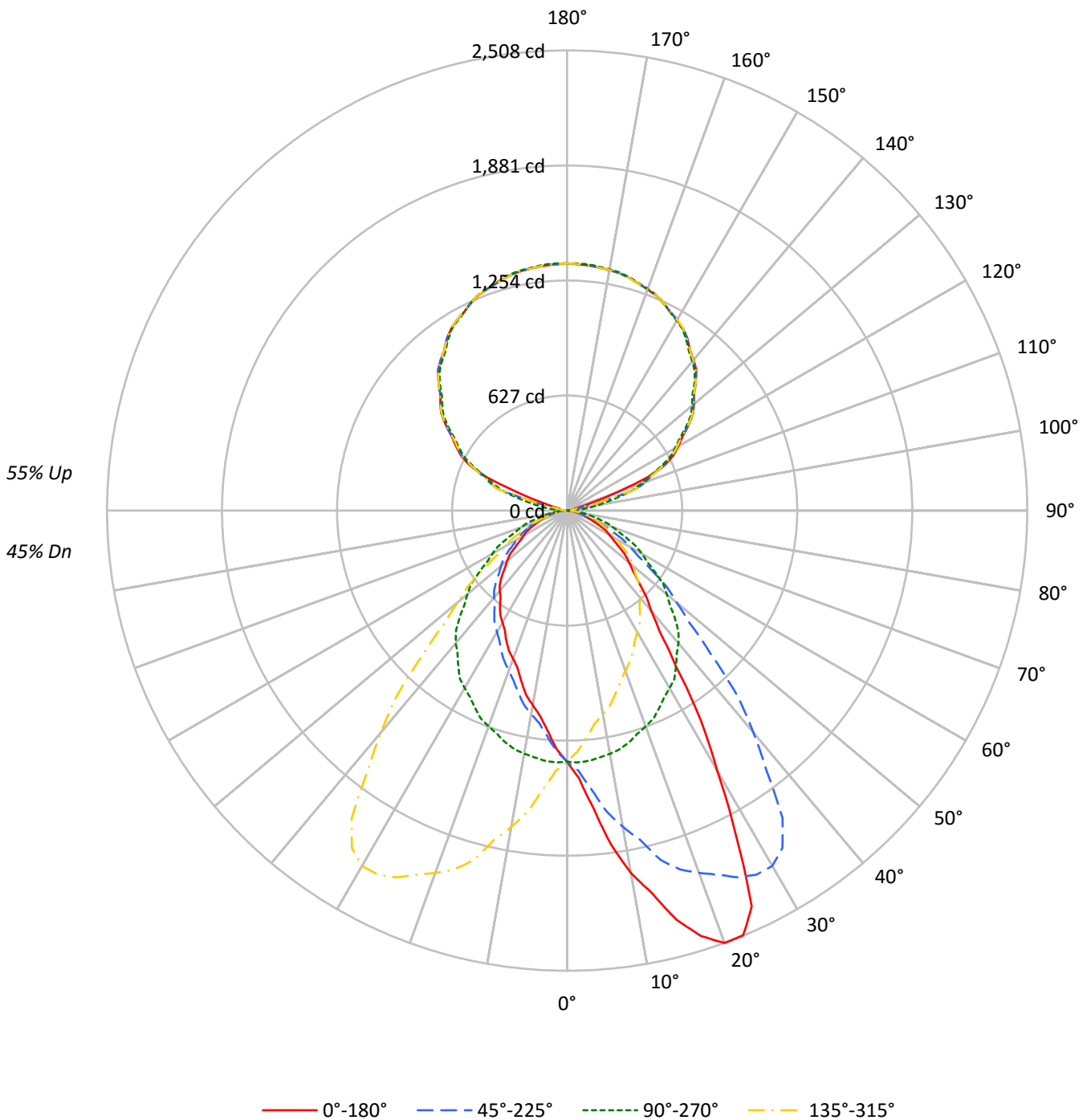
Lumens per Lamp: N/A  
Luminaire Lumens: 7517.7 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (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	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	90	86	89	86	83	80	72	69	67	59	57	56	47	46	45	39
2	89	82	76	71	81	75	70	66	63	60	57	52	50	47	42	40	39	34
3	82	72	66	60	75	67	61	56	56	52	48	47	43	41	37	35	33	29
4	75	64	57	51	68	60	53	48	50	45	41	42	38	35	34	31	29	26
5	69	58	50	44	63	53	47	41	45	40	36	38	34	31	31	28	26	22
6	63	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	24	21	18	20	17	15	13

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

	0°	90°	180°	270°
0°	14733	14733	14733	14733
5°	17562	14795	13029	14795
10°	21928	14711	11770	14711
15°	25740	14561	10735	14561
20°	28726	14336	9852	14336
25°	28268	14099	9311	14099
30°	20319	13881	8754	13881
35°	13566	13596	8393	13596
40°	9996	13256	8019	13256
45°	8385	12657	7652	12657
50°	7398	11871	7142	11871
55°	6488	10975	6444	10975
60°	5778	10116	5903	10116
65°	5074	9192	5491	9192
70°	3984	8371	5017	8371
75°	3510	7311	4579	7311
80°	3050	6211	4506	6211
85°	2458	5002	4780	5002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	1.8
10°-20°	420.5	5.6
20°-30°	660.6	8.8
30°-40°	689.3	9.2
40°-50°	589.9	7.8
50°-60°	449.6	6.0
60°-70°	288.2	3.8
70°-80°	138.6	1.8
80°-90°	40.5	0.5
90°-100°	48.9	0.7
100°-110°	233.3	3.1
110°-120°	560.4	7.5
120°-130°	713.6	9.5
130°-140°	762.5	10.1
140°-150°	713.0	9.5
150°-160°	575.1	7.7
160°-170°	371.2	4.9
170°-180°	127.9	1.7
0°-30°	1215.8	16.2
0°-40°	1905.0	25.3
0°-60°	2944.5	39.2
0°-90°	3411.7	45.4
90°-120°	842.6	11.2
90°-150°	3031.7	40.3
90°-180°	4106.0	54.6
0°-180°	7517.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1625	1369	1206	1369	1625	168
15°	2310	1307	963	1307	2310	655
25°	2380	1187	784	1187	2380	1023
35°	1032	1035	639	1035	1032	677
45°	551	832	503	832	551	433
55°	346	585	343	585	346	313
65°	199	361	216	361	199	196
75°	84	176	110	176	84	90
85°	20	40	39	40	20	24
90°	30	1	30	1	30	14
95°	38	61	38	61	38	32
105°	44	298	44	298	44	101
115°	588	559	588	559	588	543
125°	804	788	804	788	804	718
135°	991	981	991	981	991	764
145°	1143	1132	1143	1132	1143	714
155°	1245	1247	1245	1247	1245	574
165°	1312	1315	1312	1315	1312	371
175°	1341	1346	1341	1346	1341	128
180°	1346	1346	1346	1346	1346	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1457.8	1459.7	1453.6	1452.7	1445.6	1443.7	1443.7	1433.9	1427.8	1419.9	1415.1
5°	1625.4	1634.8	1630.0	1619.5	1602.0	1597.8	1586.7	1569.2	1549.2	1524.6	1512.9
7.5°	1834.7	1847.4	1842.5	1826.3	1807.8	1792.9	1761.6	1732.4	1691.5	1655.6	1625.0
10°	2006.2	1992.8	1982.2	1966.4	1949.4	1921.8	1889.0	1843.9	1791.8	1750.8	1705.1
12.5°	2134.7	2132.4	2119.1	2102.8	2078.8	2052.6	2012.3	1957.4	1896.8	1837.5	1785.2
15°	2309.8	2313.2	2304.5	2287.5	2253.5	2207.3	2146.3	2123.5	2036.7	1972.3	1907.8
17.5°	2430.9	2430.3	2429.1	2405.5	2370.8	2337.9	2281.4	2221.3	2142.8	2051.9	1965.1
20°	2507.8	2502.0	2503.1	2476.8	2451.0	2412.9	2357.8	2270.5	2206.1	2101.2	2011.6
22.5°	2505.9	2504.7	2509.2	2500.2	2481.5	2452.3	2408.9	2335.2	2252.9	2147.1	2046.3
25°	2380.1	2375.4	2403.0	2410.5	2440.4	2445.7	2432.8	2392.4	2314.5	2205.5	2080.7
27.5°	1991.9	1989.3	2040.5	2104.5	2185.6	2248.6	2309.5	2339.0	2314.5	2236.4	2111.3
30°	1634.8	1689.9	1715.6	1808.2	1911.3	2034.4	2142.2	2244.7	2269.9	2235.9	2133.4
32.5°	1357.3	1405.3	1426.8	1506.3	1602.4	1746.5	1908.3	2053.5	2156.0	2182.0	2120.3
35°	1032.4	1033.0	1082.2	1117.4	1206.4	1354.7	1511.7	1706.2	1899.6	2046.1	2061.3
37.5°	823.8	826.7	856.5	891.6	958.4	1036.7	1175.0	1336.8	1560.1	1785.0	1916.8
40°	711.4	716.6	738.9	773.4	821.5	880.6	988.5	1140.8	1327.1	1577.4	1781.8
42.5°	639.1	647.7	659.2	685.8	715.6	770.9	858.2	975.9	1145.3	1381.9	1617.8
45°	550.8	555.4	564.3	576.5	603.5	642.2	700.8	779.9	920.5	1110.9	1347.0
47.5°	485.9	483.4	492.7	502.7	520.6	546.9	586.2	650.7	751.1	903.9	1104.1
50°	441.8	441.2	447.6	455.3	472.3	491.6	523.8	572.5	652.1	778.7	962.1
52.5°	400.5	402.8	407.3	416.8	429.1	444.7	473.6	508.7	577.1	686.4	839.3
55°	345.7	347.5	353.9	359.2	368.0	383.7	401.9	431.3	478.1	554.3	680.3
57.5°	299.3	298.5	304.7	306.0	315.9	328.8	342.9	365.7	399.6	456.2	541.1
60°	268.4	266.6	271.9	276.0	281.3	291.8	303.5	325.8	352.8	394.3	467.0
62.5°	240.2	239.4	243.3	247.4	251.8	261.3	271.2	288.3	309.6	344.7	402.3
65°	199.2	201.0	202.8	204.5	206.8	212.7	222.1	233.8	248.4	273.0	314.6
67.5°	156.5	158.3	158.9	162.6	167.6	171.3	176.9	187.4	197.6	218.3	242.0
70°	126.6	126.0	126.6	128.3	134.7	141.2	148.9	156.4	162.9	177.5	197.4
72.5°	108.7	107.7	109.3	109.6	112.7	114.5	119.3	126.5	134.7	144.7	159.0
75°	84.4	84.4	84.4	84.4	86.7	87.9	89.6	91.4	94.4	99.0	109.6
77.5°	62.3	62.4	63.3	63.9	64.3	65.0	66.1	67.8	68.9	71.4	75.9
80°	49.2	49.8	49.2	49.8	49.8	51.0	51.6	53.3	53.9	56.8	58.6
82.5°	37.0	36.7	37.0	37.6	37.6	38.8	38.9	40.2	40.3	41.8	43.6
85°	19.9	18.8	19.9	19.4	20.5	19.4	19.9	21.1	21.1	21.7	24.0
87.5°	10.7	11.5	10.5	10.8	10.8	11.1	10.9	10.8	11.5	10.9	10.8
90°	30.0	29.5	29.1	28.7	28.2	27.6	26.7	25.7	24.9	24.0	21.1
92.5°	33.2	33.0	32.7	32.4	32.1	31.3	29.9	28.4	27.0	25.6	23.4
95°	38.0	38.0	38.0	38.0	38.0	37.2	35.6	34.1	32.5	31.0	28.6
97.5°	41.2	41.0	40.8	40.6	40.3	39.3	37.5	35.7	34.0	32.2	48.2
100°	42.0	41.8	41.6	41.3	41.2	40.1	38.3	36.6	34.8	33.0	67.7
102.5°	42.8	42.4	42.0	41.6	41.2	43.7	49.2	54.8	60.3	65.8	103.7
105°	44.0	43.6	43.1	42.7	42.3	61.6	101.0	140.3	179.7	219.0	239.1
107.5°	138.3	167.9	197.5	227.2	256.8	286.1	315.0	343.8	372.6	401.6	398.4
110°	275.1	306.9	338.6	370.5	402.3	421.8	429.1	436.4	443.8	451.2	448.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	471.9	478.6	485.3	492.1	498.8	502.1	502.0	501.8	501.7	501.5	499.1
115°	588.1	587.3	586.4	585.5	584.6	583.1	580.8	578.6	576.4	574.2	572.2
117.5°	653.4	653.2	653.1	652.9	652.7	651.7	650.0	648.2	646.4	644.6	643.6
120°	698.2	698.2	698.2	698.2	698.2	697.3	695.5	693.8	692.0	690.2	689.6
122.5°	742.3	742.1	741.8	741.7	741.5	740.8	739.6	738.3	737.1	735.8	734.9
125°	804.3	803.8	803.4	802.9	802.5	802.0	801.6	801.2	800.7	800.2	799.4
127.5°	863.8	864.4	864.8	865.2	865.6	865.5	864.8	864.1	863.4	862.6	861.6
130°	902.3	902.8	903.2	903.6	904.0	903.9	902.9	902.1	901.2	900.3	899.4
132.5°	937.5	938.1	938.7	939.4	940.0	939.9	939.0	938.1	937.2	936.3	935.6
135°	991.4	992.0	992.6	993.3	994.0	994.0	993.3	992.6	992.0	991.4	990.4
137.5°	1041.9	1042.4	1042.8	1043.3	1043.7	1043.4	1042.3	1041.3	1040.2	1039.1	1038.6
140°	1072.4	1072.8	1073.2	1073.7	1074.1	1073.9	1073.0	1072.1	1071.3	1070.3	1069.7
142.5°	1100.4	1101.0	1101.6	1102.3	1102.9	1102.8	1102.1	1101.4	1100.7	1099.9	1099.3
145°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.1	1142.7	1142.3	1141.8	1141.3	1140.9
147.5°	1175.4	1176.4	1177.4	1178.5	1179.5	1179.7	1179.3	1178.9	1178.5	1177.9	1177.5
150°	1199.4	1200.1	1200.8	1201.4	1202.0	1202.1	1201.7	1201.3	1200.8	1200.4	1200.0
152.5°	1218.6	1219.6	1220.6	1221.7	1222.7	1222.8	1222.0	1221.2	1220.4	1219.6	1219.3
155°	1245.4	1246.7	1248.1	1249.4	1250.7	1250.9	1249.7	1248.6	1247.5	1246.4	1246.2
157.5°	1268.0	1269.7	1271.4	1273.2	1275.0	1275.1	1273.8	1272.5	1271.2	1269.8	1270.1
160°	1282.4	1283.9	1285.6	1287.1	1288.7	1288.7	1287.4	1286.1	1284.8	1283.4	1283.7
162.5°	1296.0	1297.4	1298.7	1300.1	1301.5	1301.5	1299.9	1298.5	1296.9	1295.4	1295.6
165°	1312.4	1314.0	1315.5	1317.1	1318.6	1318.5	1316.7	1315.0	1313.2	1311.4	1311.6
167.5°	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4	1329.6	1327.7	1326.0	1324.2	1324.2
170°	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5	1336.8	1335.0	1333.2	1331.5	1331.5
172.5°	1335.4	1337.4	1339.4	1341.3	1343.2	1343.3	1341.5	1339.8	1338.0	1336.2	1336.0
175°	1341.4	1343.2	1345.0	1346.8	1348.5	1348.7	1347.1	1345.6	1344.0	1342.4	1342.2
177.5°	1343.2	1345.0	1346.8	1348.6	1350.3	1350.5	1349.1	1347.6	1346.3	1344.8	1344.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1413.2	1411.9	1405.3	1397.8	1387.9	1381.4	1376.2	1373.5	1365.0	1354.7	1347.6
5°	1500.6	1483.0	1464.3	1441.4	1420.3	1398.6	1385.2	1369.3	1350.0	1328.4	1313.1
7.5°	1594.1	1559.6	1522.5	1484.2	1446.3	1412.4	1382.3	1356.7	1325.9	1294.8	1273.0
10°	1665.9	1615.4	1563.3	1509.9	1461.3	1415.7	1380.4	1345.9	1309.0	1273.2	1246.3
12.5°	1731.0	1664.7	1604.6	1539.0	1476.8	1422.2	1371.6	1330.9	1286.5	1248.4	1217.7
15°	1813.4	1745.5	1672.8	1573.2	1490.6	1421.5	1359.9	1306.7	1252.8	1205.8	1176.0
17.5°	1890.6	1788.3	1690.7	1607.6	1500.2	1413.8	1338.8	1275.0	1215.8	1166.1	1129.4
20°	1922.4	1823.4	1717.4	1611.4	1505.9	1409.2	1321.9	1251.5	1190.1	1133.8	1099.8
22.5°	1941.6	1829.5	1717.9	1603.9	1491.8	1391.4	1305.0	1227.7	1161.0	1107.5	1065.6
25°	1964.0	1830.5	1707.4	1594.9	1480.7	1371.7	1269.1	1187.1	1115.1	1058.2	1013.7
27.5°	1978.8	1821.7	1676.3	1551.2	1435.3	1326.8	1232.8	1145.8	1072.7	1012.6	964.8
30°	1981.7	1814.6	1652.3	1517.0	1399.2	1299.6	1200.0	1116.8	1039.5	975.6	931.1
32.5°	1985.4	1797.3	1620.0	1476.2	1355.6	1257.0	1166.7	1087.3	1008.1	945.1	899.7
35°	1970.0	1787.7	1570.9	1405.7	1285.0	1189.5	1108.0	1034.7	956.8	895.9	849.6
37.5°	1903.3	1749.6	1520.0	1326.2	1200.0	1111.6	1045.2	981.4	909.8	844.1	800.5
40°	1836.3	1712.1	1480.7	1277.9	1146.1	1055.2	995.5	943.4	874.3	812.7	765.9
42.5°	1736.5	1661.0	1443.2	1227.3	1085.1	997.6	947.2	898.4	837.7	775.2	731.2
45°	1553.3	1563.3	1366.4	1146.7	1000.7	912.9	865.4	831.5	777.6	726.0	680.9
47.5°	1323.6	1416.8	1276.3	1060.8	911.8	829.3	787.8	758.2	721.9	671.2	630.1
50°	1173.6	1306.7	1204.1	1003.2	856.1	774.0	733.0	708.9	677.3	637.5	598.2
52.5°	1035.4	1178.2	1116.9	938.9	795.6	720.6	680.5	660.7	635.6	598.1	562.6
55°	844.3	989.0	975.0	842.0	704.9	637.5	607.0	584.8	567.7	539.7	511.5
57.5°	682.9	820.2	827.4	734.2	625.0	558.4	532.2	515.4	504.3	483.0	457.0
60°	581.3	707.2	731.8	661.5	567.7	509.2	483.4	469.9	461.2	444.1	424.2
62.5°	496.9	604.1	632.0	581.3	512.9	458.1	437.9	424.9	419.0	404.3	386.8
65°	380.3	469.3	496.3	468.1	432.4	388.5	372.0	360.9	355.7	347.5	334.6
67.5°	285.9	350.9	380.4	360.6	347.7	319.9	309.5	303.5	298.9	293.2	282.4
70°	229.7	277.8	308.2	302.9	292.4	277.8	270.1	266.0	261.3	256.7	247.3
72.5°	184.7	217.7	246.3	249.0	240.4	237.5	230.7	229.0	226.2	220.6	215.4
75°	122.4	145.3	165.2	172.9	176.3	179.3	176.3	175.8	175.2	170.5	167.6
77.5°	80.2	92.6	105.1	118.1	123.6	127.6	128.5	130.7	129.2	126.7	125.3
80°	61.6	64.5	73.3	84.4	93.2	96.7	99.0	100.2	99.6	99.0	96.7
82.5°	44.7	47.1	51.2	59.1	66.5	72.3	73.7	73.4	74.7	75.1	73.3
85°	24.0	24.6	25.7	26.9	31.1	37.5	39.3	40.5	41.6	41.6	38.1
87.5°	11.1	10.1	10.4	10.0	10.9	10.9	13.3	15.2	16.1	14.7	15.2
90°	18.3	15.3	12.5	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	21.3	19.1	16.9	16.1	16.7	17.4	18.0	18.6	18.0	17.4	16.7
95°	26.1	23.7	21.3	24.5	33.7	42.8	51.9	61.0	51.9	42.8	33.7
97.5°	64.2	80.2	96.3	106.2	110.4	114.4	118.6	122.6	118.6	114.4	110.4
100°	102.4	137.1	171.7	186.8	182.4	178.0	173.5	169.0	173.5	178.0	182.4
102.5°	141.5	179.4	217.3	234.7	231.4	228.3	225.1	221.9	225.1	228.3	231.4
105°	259.1	279.1	299.1	307.9	305.4	303.0	300.6	298.1	300.6	303.0	305.4
107.5°	395.2	392.1	388.9	386.3	384.4	382.5	380.5	378.5	380.5	382.5	384.4
110°	446.3	443.8	441.3	439.3	437.5	435.7	433.9	432.1	433.9	435.7	437.5





TEST NUMBER: P332354-935

CATALOG NUMBER: S123RDIP-S1000D1195U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	496.7	494.2	491.8	489.7	488.2	486.6	484.9	483.4	484.9	486.6	488.2
115°	570.2	568.2	566.2	564.5	563.2	561.8	560.5	559.2	560.5	561.8	563.2
117.5°	642.6	641.5	640.5	639.2	637.6	635.8	634.2	632.6	634.2	635.8	637.6
120°	688.9	688.2	687.6	686.2	684.2	682.3	680.2	678.2	680.2	682.3	684.2
122.5°	734.2	733.3	732.5	731.2	729.5	727.9	726.3	724.6	726.3	727.9	729.5
125°	798.5	797.5	796.7	795.4	793.6	791.8	790.1	788.2	790.1	791.8	793.6
127.5°	860.6	859.5	858.4	857.0	855.2	853.4	851.6	849.9	851.6	853.4	855.2
130°	898.5	897.6	896.7	895.4	893.6	891.8	890.1	888.3	890.1	891.8	893.6
132.5°	934.9	934.2	933.4	932.2	930.4	928.7	926.9	925.1	926.9	928.7	930.4
135°	989.5	988.7	987.7	986.6	985.3	984.0	982.7	981.3	982.7	984.0	985.3
137.5°	1038.2	1037.7	1037.2	1036.1	1034.4	1032.7	1031.0	1029.3	1031.0	1032.7	1034.4
140°	1069.0	1068.3	1067.6	1066.7	1065.3	1064.0	1062.6	1061.4	1062.6	1064.0	1065.3
142.5°	1098.6	1097.9	1097.3	1096.3	1094.9	1093.6	1092.3	1091.0	1092.3	1093.6	1094.9
145°	1140.5	1140.1	1139.6	1138.6	1137.0	1135.5	1133.9	1132.4	1133.9	1135.5	1137.0
147.5°	1177.1	1176.6	1176.2	1175.4	1174.4	1173.5	1172.4	1171.4	1172.4	1173.5	1174.4
150°	1199.5	1199.0	1198.6	1198.1	1197.4	1196.7	1196.0	1195.4	1196.0	1196.7	1197.4
152.5°	1219.1	1218.7	1218.5	1218.2	1217.9	1217.6	1217.3	1217.0	1217.3	1217.6	1217.9
155°	1246.0	1245.7	1245.5	1245.6	1246.0	1246.5	1247.0	1247.4	1247.0	1246.5	1246.0
157.5°	1270.2	1270.5	1270.7	1270.8	1270.8	1270.9	1270.9	1271.0	1270.9	1270.9	1270.8
160°	1283.8	1284.1	1284.3	1284.5	1284.8	1285.0	1285.2	1285.4	1285.2	1285.0	1284.8
162.5°	1295.9	1296.1	1296.3	1296.7	1297.3	1297.9	1298.5	1299.0	1298.5	1297.9	1297.3
165°	1311.8	1312.1	1312.3	1312.8	1313.5	1314.1	1314.7	1315.4	1314.7	1314.1	1313.5
167.5°	1324.2	1324.2	1324.2	1324.6	1325.6	1326.5	1327.3	1328.3	1327.3	1326.5	1325.6
170°	1331.5	1331.5	1331.5	1331.9	1332.7	1333.7	1334.6	1335.4	1334.6	1333.7	1332.7
172.5°	1335.8	1335.7	1335.5	1335.9	1337.0	1338.1	1339.2	1340.2	1339.2	1338.1	1337.0
175°	1342.0	1341.8	1341.5	1342.0	1343.1	1344.2	1345.3	1346.4	1345.3	1344.2	1343.1
177.5°	1344.5	1344.3	1344.1	1344.5	1345.4	1346.3	1347.1	1348.1	1347.1	1346.3	1345.4
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1345.3	1339.2	1335.0	1325.6	1319.6	1312.9	1306.4	1310.6	1310.2	1309.7	1309.7
5°	1300.2	1286.7	1274.5	1258.6	1248.6	1236.3	1226.9	1225.8	1228.1	1220.0	1215.2
7.5°	1255.4	1237.0	1219.6	1202.1	1183.6	1168.8	1159.6	1155.2	1149.3	1144.2	1138.9
10°	1224.0	1202.4	1185.3	1163.6	1143.8	1126.2	1115.1	1107.4	1103.3	1099.2	1091.6
12.5°	1191.7	1170.4	1148.8	1124.3	1105.4	1084.9	1076.6	1068.1	1060.2	1055.6	1045.2
15°	1144.4	1116.8	1094.0	1068.2	1047.1	1027.2	1015.5	998.4	996.1	990.2	979.7
17.5°	1096.9	1067.0	1035.4	1016.4	992.6	971.8	954.0	948.3	931.5	925.2	916.0
20°	1059.4	1031.8	1007.8	982.7	948.0	928.7	914.6	907.1	893.5	885.4	879.5
22.5°	1027.0	999.0	971.3	941.8	913.3	891.7	881.4	869.5	862.1	850.7	844.3
25°	980.9	950.4	917.0	885.4	864.9	848.4	832.1	821.5	811.0	805.6	793.9
27.5°	927.2	895.4	864.1	840.1	814.9	798.7	783.9	774.5	761.8	752.9	746.5
30°	897.7	860.1	833.2	811.5	779.3	764.1	752.9	741.2	731.8	722.5	716.0
32.5°	863.4	829.2	803.7	776.9	752.1	735.5	721.1	710.8	702.7	693.9	687.4
35°	809.8	781.1	754.7	727.7	709.6	692.6	675.6	666.8	659.2	651.0	645.1
37.5°	761.2	734.4	709.4	683.8	661.2	647.5	633.8	627.1	616.7	611.2	605.3
40°	731.2	704.9	678.0	653.3	629.9	619.3	607.0	597.1	587.7	583.6	577.1
42.5°	698.4	672.1	649.4	622.8	603.6	589.4	578.0	567.1	560.1	554.1	550.4
45°	649.8	626.4	604.1	577.7	559.6	547.3	534.3	524.4	518.0	513.8	507.4
47.5°	602.6	579.1	556.6	533.6	516.0	501.9	489.0	482.1	473.6	468.6	464.2
50°	568.3	547.3	523.2	502.1	484.6	470.5	459.9	451.2	443.6	437.1	434.2
52.5°	536.9	514.4	493.7	474.1	455.5	439.5	430.0	420.7	415.0	407.6	404.2
55°	485.2	463.5	445.9	426.5	408.4	394.9	383.2	375.0	369.1	360.9	356.3
57.5°	436.5	417.1	396.1	379.4	360.6	349.2	339.5	328.4	321.2	314.8	310.2
60°	403.7	381.4	363.3	347.5	331.1	316.4	307.6	298.9	291.2	284.7	280.7
62.5°	369.5	350.1	332.8	315.6	300.6	287.8	277.6	270.3	263.6	259.4	255.4
65°	317.0	301.8	284.2	270.1	256.1	246.7	238.5	232.0	227.3	224.4	220.9
67.5°	268.7	253.9	238.6	224.8	215.4	208.3	202.9	197.3	195.0	191.2	188.9
70°	237.3	222.1	208.6	198.0	188.6	183.4	179.9	175.8	173.4	168.8	166.4
72.5°	203.1	192.1	182.4	173.7	166.2	161.4	156.9	151.9	148.1	142.9	140.6
75°	160.0	150.0	142.4	136.6	131.8	125.4	118.9	113.7	111.9	110.1	109.6
77.5°	118.5	112.2	106.7	101.7	95.8	91.2	89.8	88.6	88.3	87.3	87.3
80°	93.2	87.3	83.2	77.3	73.8	73.8	73.8	72.7	73.3	73.3	73.3
82.5°	69.2	63.9	61.6	59.5	58.8	59.3	59.3	59.5	59.2	60.1	59.7
85°	35.7	36.3	37.5	36.9	37.5	37.5	38.7	38.1	38.7	37.5	38.7
87.5°	15.1	17.0	18.1	19.1	20.1	20.2	20.9	21.1	21.8	22.0	22.0
90°	9.9	12.5	15.3	18.3	21.1	24.0	24.9	25.7	26.7	27.6	28.2
92.5°	16.1	16.9	19.1	21.3	23.4	25.6	27.0	28.4	29.9	31.3	32.1
95°	24.5	21.3	23.7	26.1	28.6	31.0	32.5	34.1	35.6	37.2	38.0
97.5°	106.2	96.3	80.2	64.2	48.2	32.2	34.0	35.7	37.5	39.3	40.3
100°	186.8	171.7	137.1	102.4	67.7	33.0	34.8	36.6	38.3	40.1	41.2
102.5°	234.7	217.3	179.4	141.5	103.7	65.8	60.3	54.8	49.2	43.7	41.2
105°	307.9	299.1	279.1	259.1	239.1	219.0	179.7	140.3	101.0	61.6	42.3
107.5°	386.3	388.9	392.1	395.2	398.4	401.6	372.6	343.8	315.0	286.1	256.8
110°	439.3	441.3	443.8	446.3	448.7	451.2	443.8	436.4	429.1	421.8	402.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	489.7	491.8	494.2	496.7	499.1	501.5	501.7	501.8	502.0	502.1	498.8
115°	564.5	566.2	568.2	570.2	572.2	574.2	576.4	578.6	580.8	583.1	584.6
117.5°	639.2	640.5	641.5	642.6	643.6	644.6	646.4	648.2	650.0	651.7	652.7
120°	686.2	687.6	688.2	688.9	689.6	690.2	692.0	693.8	695.5	697.3	698.2
122.5°	731.2	732.5	733.3	734.2	734.9	735.8	737.1	738.3	739.6	740.8	741.5
125°	795.4	796.7	797.5	798.5	799.4	800.2	800.7	801.2	801.6	802.0	802.5
127.5°	857.0	858.4	859.5	860.6	861.6	862.6	863.4	864.1	864.8	865.5	865.6
130°	895.4	896.7	897.6	898.5	899.4	900.3	901.2	902.1	902.9	903.9	904.0
132.5°	932.2	933.4	934.2	934.9	935.6	936.3	937.2	938.1	939.0	939.9	940.0
135°	986.6	987.7	988.7	989.5	990.4	991.4	992.0	992.6	993.3	994.0	994.0
137.5°	1036.1	1037.2	1037.7	1038.2	1038.6	1039.1	1040.2	1041.3	1042.3	1043.4	1043.7
140°	1066.7	1067.6	1068.3	1069.0	1069.7	1070.3	1071.3	1072.1	1073.0	1073.9	1074.1
142.5°	1096.3	1097.3	1097.9	1098.6	1099.3	1099.9	1100.7	1101.4	1102.1	1102.8	1102.9
145°	1138.6	1139.6	1140.1	1140.5	1140.9	1141.3	1141.8	1142.3	1142.7	1143.1	1143.3
147.5°	1175.4	1176.2	1176.6	1177.1	1177.5	1177.9	1178.5	1178.9	1179.3	1179.7	1179.5
150°	1198.1	1198.6	1199.0	1199.5	1200.0	1200.4	1200.8	1201.3	1201.7	1202.1	1202.0
152.5°	1218.2	1218.5	1218.7	1219.1	1219.3	1219.6	1220.4	1221.2	1222.0	1222.8	1222.7
155°	1245.6	1245.5	1245.7	1246.0	1246.2	1246.4	1247.5	1248.6	1249.7	1250.9	1250.7
157.5°	1270.8	1270.7	1270.5	1270.2	1270.1	1269.8	1271.2	1272.5	1273.8	1275.1	1275.0
160°	1284.5	1284.3	1284.1	1283.8	1283.7	1283.4	1284.8	1286.1	1287.4	1288.7	1288.7
162.5°	1296.7	1296.3	1296.1	1295.9	1295.6	1295.4	1296.9	1298.5	1299.9	1301.5	1301.5
165°	1312.8	1312.3	1312.1	1311.8	1311.6	1311.4	1313.2	1315.0	1316.7	1318.5	1318.6
167.5°	1324.6	1324.2	1324.2	1324.2	1324.2	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4
170°	1331.9	1331.5	1331.5	1331.5	1331.5	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5
172.5°	1335.9	1335.5	1335.7	1335.8	1336.0	1336.2	1338.0	1339.8	1341.5	1343.3	1343.2
175°	1342.0	1341.5	1341.8	1342.0	1342.2	1342.4	1344.0	1345.6	1347.1	1348.7	1348.5
177.5°	1344.5	1344.1	1344.3	1344.5	1344.6	1344.8	1346.3	1347.6	1349.1	1350.5	1350.3
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



TEST NUMBER: P332354-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1304.1	1303.6	1304.1	1302.2	1304.1	1303.6	1304.1	1309.7	1309.7	1310.2	1310.6
5°	1213.5	1212.9	1211.2	1205.8	1211.2	1212.9	1213.5	1215.2	1220.0	1228.1	1225.8
7.5°	1134.4	1133.6	1128.4	1128.5	1128.4	1133.6	1134.4	1138.9	1144.2	1149.3	1155.2
10°	1087.5	1088.0	1081.1	1076.9	1081.1	1088.0	1087.5	1091.6	1099.2	1103.3	1107.4
12.5°	1042.1	1039.3	1033.7	1029.2	1033.7	1039.3	1042.1	1045.2	1055.6	1060.2	1068.1
15°	982.1	976.2	962.1	963.3	962.1	976.2	982.1	979.7	990.2	996.1	998.4
17.5°	911.4	907.1	906.8	898.6	906.8	907.1	911.4	916.0	925.2	931.5	948.3
20°	870.1	867.2	868.3	860.1	868.3	867.2	870.1	879.5	885.4	893.5	907.1
22.5°	837.8	834.8	829.9	827.3	829.9	834.8	837.8	844.3	850.7	862.1	869.5
25°	790.4	785.7	781.1	784.0	781.1	785.7	790.4	793.9	805.6	811.0	821.5
27.5°	743.1	739.6	734.9	734.3	734.9	739.6	743.1	746.5	752.9	761.8	774.5
30°	713.1	709.6	707.2	704.3	707.2	709.6	713.1	716.0	722.5	731.8	741.2
32.5°	682.6	681.9	677.7	677.1	677.7	681.9	682.6	687.4	693.9	702.7	710.8
35°	642.7	639.3	638.1	638.7	638.1	639.3	642.7	645.1	651.0	659.2	666.8
37.5°	604.9	600.2	598.1	596.0	598.1	600.2	604.9	605.3	611.2	616.7	627.1
40°	577.7	573.1	571.9	570.7	571.9	573.1	577.7	577.1	583.6	587.7	597.1
42.5°	547.3	545.4	544.7	542.6	544.7	545.4	547.3	550.4	554.1	560.1	567.1
45°	505.7	505.1	501.5	502.7	501.5	505.1	505.7	507.4	513.8	518.0	524.4
47.5°	461.8	459.3	456.8	458.4	456.8	459.3	461.8	464.2	468.6	473.6	482.1
50°	431.9	430.7	425.4	426.5	425.4	430.7	431.9	434.2	437.1	443.6	451.2
52.5°	401.8	397.4	395.4	394.7	395.4	397.4	401.8	404.2	407.6	415.0	420.7
55°	352.1	346.9	344.6	343.4	344.6	346.9	352.1	356.3	360.9	369.1	375.0
57.5°	303.4	302.0	300.1	301.4	300.1	302.0	303.4	310.2	314.8	321.2	328.4
60°	274.8	274.8	274.8	274.2	274.8	274.8	274.8	280.7	284.7	291.2	298.9
62.5°	252.8	251.3	250.9	251.8	250.9	251.3	252.8	255.4	259.4	263.6	270.3
65°	219.1	218.5	216.2	215.6	216.2	218.5	219.1	220.9	224.4	227.3	232.0
67.5°	187.4	185.3	184.6	183.7	184.6	185.3	187.4	188.9	191.2	195.0	197.3
70°	163.5	162.3	158.8	159.4	158.8	162.3	163.5	166.4	168.8	173.4	175.8
72.5°	137.7	136.6	135.8	135.0	135.8	136.6	137.7	140.6	142.9	148.1	151.9
75°	109.0	108.4	107.8	110.1	107.8	108.4	109.0	109.6	110.1	111.9	113.7
77.5°	87.3	87.3	87.6	86.7	87.6	87.3	87.3	87.3	87.3	88.3	88.6
80°	73.3	73.3	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	72.7
82.5°	58.7	59.2	59.5	58.6	59.5	59.2	58.7	59.7	60.1	59.2	59.5
85°	38.7	38.1	39.3	38.7	39.3	38.1	38.7	38.7	37.5	38.7	38.1
87.5°	23.1	22.2	22.3	22.9	22.3	22.2	23.1	22.0	22.0	21.8	21.1
90°	28.7	29.1	29.5	30.0	29.5	29.1	28.7	28.2	27.6	26.7	25.7
92.5°	32.4	32.7	33.0	33.2	33.0	32.7	32.4	32.1	31.3	29.9	28.4
95°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.2	35.6	34.1
97.5°	40.6	40.8	41.0	41.2	41.0	40.8	40.6	40.3	39.3	37.5	35.7
100°	41.3	41.6	41.8	42.0	41.8	41.6	41.3	41.2	40.1	38.3	36.6
102.5°	41.6	42.0	42.4	42.8	42.4	42.0	41.6	41.2	43.7	49.2	54.8
105°	42.7	43.1	43.6	44.0	43.6	43.1	42.7	42.3	61.6	101.0	140.3
107.5°	227.2	197.5	167.9	138.3	167.9	197.5	227.2	256.8	286.1	315.0	343.8
110°	370.5	338.6	306.9	275.1	306.9	338.6	370.5	402.3	421.8	429.1	436.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	492.1	485.3	478.6	471.9	478.6	485.3	492.1	498.8	502.1	502.0	501.8
115°	585.5	586.4	587.3	588.1	587.3	586.4	585.5	584.6	583.1	580.8	578.6
117.5°	652.9	653.1	653.2	653.4	653.2	653.1	652.9	652.7	651.7	650.0	648.2
120°	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	697.3	695.5	693.8
122.5°	741.7	741.8	742.1	742.3	742.1	741.8	741.7	741.5	740.8	739.6	738.3
125°	802.9	803.4	803.8	804.3	803.8	803.4	802.9	802.5	802.0	801.6	801.2
127.5°	865.2	864.8	864.4	863.8	864.4	864.8	865.2	865.6	865.5	864.8	864.1
130°	903.6	903.2	902.8	902.3	902.8	903.2	903.6	904.0	903.9	902.9	902.1
132.5°	939.4	938.7	938.1	937.5	938.1	938.7	939.4	940.0	939.9	939.0	938.1
135°	993.3	992.6	992.0	991.4	992.0	992.6	993.3	994.0	994.0	993.3	992.6
137.5°	1043.3	1042.8	1042.4	1041.9	1042.4	1042.8	1043.3	1043.7	1043.4	1042.3	1041.3
140°	1073.7	1073.2	1072.8	1072.4	1072.8	1073.2	1073.7	1074.1	1073.9	1073.0	1072.1
142.5°	1102.3	1101.6	1101.0	1100.4	1101.0	1101.6	1102.3	1102.9	1102.8	1102.1	1101.4
145°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.1	1142.7	1142.3
147.5°	1178.5	1177.4	1176.4	1175.4	1176.4	1177.4	1178.5	1179.5	1179.7	1179.3	1178.9
150°	1201.4	1200.8	1200.1	1199.4	1200.1	1200.8	1201.4	1202.0	1202.1	1201.7	1201.3
152.5°	1221.7	1220.6	1219.6	1218.6	1219.6	1220.6	1221.7	1222.7	1222.8	1222.0	1221.2
155°	1249.4	1248.1	1246.7	1245.4	1246.7	1248.1	1249.4	1250.7	1250.9	1249.7	1248.6
157.5°	1273.2	1271.4	1269.7	1268.0	1269.7	1271.4	1273.2	1275.0	1275.1	1273.8	1272.5
160°	1287.1	1285.6	1283.9	1282.4	1283.9	1285.6	1287.1	1288.7	1288.7	1287.4	1286.1
162.5°	1300.1	1298.7	1297.4	1296.0	1297.4	1298.7	1300.1	1301.5	1301.5	1299.9	1298.5
165°	1317.1	1315.5	1314.0	1312.4	1314.0	1315.5	1317.1	1318.6	1318.5	1316.7	1315.0
167.5°	1329.6	1327.7	1326.0	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4	1329.6	1327.7
170°	1336.8	1335.0	1333.2	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5	1336.8	1335.0
172.5°	1341.3	1339.4	1337.4	1335.4	1337.4	1339.4	1341.3	1343.2	1343.3	1341.5	1339.8
175°	1346.8	1345.0	1343.2	1341.4	1343.2	1345.0	1346.8	1348.5	1348.7	1347.1	1345.6
177.5°	1348.6	1346.8	1345.0	1343.2	1345.0	1346.8	1348.6	1350.3	1350.5	1349.1	1347.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1306.4	1312.9	1319.6	1325.6	1335.0	1339.2	1345.3	1347.6	1354.7	1365.0	1373.5
5°	1226.9	1236.3	1248.6	1258.6	1274.5	1286.7	1300.2	1313.1	1328.4	1350.0	1369.3
7.5°	1159.6	1168.8	1183.6	1202.1	1219.6	1237.0	1255.4	1273.0	1294.8	1325.9	1356.7
10°	1115.1	1126.2	1143.8	1163.6	1185.3	1202.4	1224.0	1246.3	1273.2	1309.0	1345.9
12.5°	1076.6	1084.9	1105.4	1124.3	1148.8	1170.4	1191.7	1217.7	1248.4	1286.5	1330.9
15°	1015.5	1027.2	1047.1	1068.2	1094.0	1116.8	1144.4	1176.0	1205.8	1252.8	1306.7
17.5°	954.0	971.8	992.6	1016.4	1035.4	1067.0	1096.9	1129.4	1166.1	1215.8	1275.0
20°	914.6	928.7	948.0	982.7	1007.8	1031.8	1059.4	1099.8	1133.8	1190.1	1251.5
22.5°	881.4	891.7	913.3	941.8	971.3	999.0	1027.0	1065.6	1107.5	1161.0	1227.7
25°	832.1	848.4	864.9	885.4	917.0	950.4	980.9	1013.7	1058.2	1115.1	1187.1
27.5°	783.9	798.7	814.9	840.1	864.1	895.4	927.2	964.8	1012.6	1072.7	1145.8
30°	752.9	764.1	779.3	811.5	833.2	860.1	897.7	931.1	975.6	1039.5	1116.8
32.5°	721.1	735.5	752.1	776.9	803.7	829.2	863.4	899.7	945.1	1008.1	1087.3
35°	675.6	692.6	709.6	727.7	754.7	781.1	809.8	849.6	895.9	956.8	1034.7
37.5°	633.8	647.5	661.2	683.8	709.4	734.4	761.2	800.5	844.1	909.8	981.4
40°	607.0	619.3	629.9	653.3	678.0	704.9	731.2	765.9	812.7	874.3	943.4
42.5°	578.0	589.4	603.6	622.8	649.4	672.1	698.4	731.2	775.2	837.7	898.4
45°	534.3	547.3	559.6	577.7	604.1	626.4	649.8	680.9	726.0	777.6	831.5
47.5°	489.0	501.9	516.0	533.6	556.6	579.1	602.6	630.1	671.2	721.9	758.2
50°	459.9	470.5	484.6	502.1	523.2	547.3	568.3	598.2	637.5	677.3	708.9
52.5°	430.0	439.5	455.5	474.1	493.7	514.4	536.9	562.6	598.1	635.6	660.7
55°	383.2	394.9	408.4	426.5	445.9	463.5	485.2	511.5	539.7	567.7	584.8
57.5°	339.5	349.2	360.6	379.4	396.1	417.1	436.5	457.0	483.0	504.3	515.4
60°	307.6	316.4	331.1	347.5	363.3	381.4	403.7	424.2	444.1	461.2	469.9
62.5°	277.6	287.8	300.6	315.6	332.8	350.1	369.5	386.8	404.3	419.0	424.9
65°	238.5	246.7	256.1	270.1	284.2	301.8	317.0	334.6	347.5	355.7	360.9
67.5°	202.9	208.3	215.4	224.8	238.6	253.9	268.7	282.4	293.2	298.9	303.5
70°	179.9	183.4	188.6	198.0	208.6	222.1	237.3	247.3	256.7	261.3	266.0
72.5°	156.9	161.4	166.2	173.7	182.4	192.1	203.1	215.4	220.6	226.2	229.0
75°	118.9	125.4	131.8	136.6	142.4	150.0	160.0	167.6	170.5	175.2	175.8
77.5°	89.8	91.2	95.8	101.7	106.7	112.2	118.5	125.3	126.7	129.2	130.7
80°	73.8	73.8	73.8	77.3	83.2	87.3	93.2	96.7	99.0	99.6	100.2
82.5°	59.3	59.3	58.8	59.5	61.6	63.9	69.2	73.3	75.1	74.7	73.4
85°	38.7	37.5	37.5	36.9	37.5	36.3	35.7	38.1	41.6	41.6	40.5
87.5°	20.9	20.2	20.1	19.1	18.1	17.0	15.1	15.2	14.7	16.1	15.2
90°	24.9	24.0	21.1	18.3	15.3	12.5	9.9	7.7	5.4	3.2	1.0
92.5°	27.0	25.6	23.4	21.3	19.1	16.9	16.1	16.7	17.4	18.0	18.6
95°	32.5	31.0	28.6	26.1	23.7	21.3	24.5	33.7	42.8	51.9	61.0
97.5°	34.0	32.2	48.2	64.2	80.2	96.3	106.2	110.4	114.4	118.6	122.6
100°	34.8	33.0	67.7	102.4	137.1	171.7	186.8	182.4	178.0	173.5	169.0
102.5°	60.3	65.8	103.7	141.5	179.4	217.3	234.7	231.4	228.3	225.1	221.9
105°	179.7	219.0	239.1	259.1	279.1	299.1	307.9	305.4	303.0	300.6	298.1
107.5°	372.6	401.6	398.4	395.2	392.1	388.9	386.3	384.4	382.5	380.5	378.5
110°	443.8	451.2	448.7	446.3	443.8	441.3	439.3	437.5	435.7	433.9	432.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	501.7	501.5	499.1	496.7	494.2	491.8	489.7	488.2	486.6	484.9	483.4
115°	576.4	574.2	572.2	570.2	568.2	566.2	564.5	563.2	561.8	560.5	559.2
117.5°	646.4	644.6	643.6	642.6	641.5	640.5	639.2	637.6	635.8	634.2	632.6
120°	692.0	690.2	689.6	688.9	688.2	687.6	686.2	684.2	682.3	680.2	678.2
122.5°	737.1	735.8	734.9	734.2	733.3	732.5	731.2	729.5	727.9	726.3	724.6
125°	800.7	800.2	799.4	798.5	797.5	796.7	795.4	793.6	791.8	790.1	788.2
127.5°	863.4	862.6	861.6	860.6	859.5	858.4	857.0	855.2	853.4	851.6	849.9
130°	901.2	900.3	899.4	898.5	897.6	896.7	895.4	893.6	891.8	890.1	888.3
132.5°	937.2	936.3	935.6	934.9	934.2	933.4	932.2	930.4	928.7	926.9	925.1
135°	992.0	991.4	990.4	989.5	988.7	987.7	986.6	985.3	984.0	982.7	981.3
137.5°	1040.2	1039.1	1038.6	1038.2	1037.7	1037.2	1036.1	1034.4	1032.7	1031.0	1029.3
140°	1071.3	1070.3	1069.7	1069.0	1068.3	1067.6	1066.7	1065.3	1064.0	1062.6	1061.4
142.5°	1100.7	1099.9	1099.3	1098.6	1097.9	1097.3	1096.3	1094.9	1093.6	1092.3	1091.0
145°	1141.8	1141.3	1140.9	1140.5	1140.1	1139.6	1138.6	1137.0	1135.5	1133.9	1132.4
147.5°	1178.5	1177.9	1177.5	1177.1	1176.6	1176.2	1175.4	1174.4	1173.5	1172.4	1171.4
150°	1200.8	1200.4	1200.0	1199.5	1199.0	1198.6	1198.1	1197.4	1196.7	1196.0	1195.4
152.5°	1220.4	1219.6	1219.3	1219.1	1218.7	1218.5	1218.2	1217.9	1217.6	1217.3	1217.0
155°	1247.5	1246.4	1246.2	1246.0	1245.7	1245.5	1245.6	1246.0	1246.5	1247.0	1247.4
157.5°	1271.2	1269.8	1270.1	1270.2	1270.5	1270.7	1270.8	1270.8	1270.9	1270.9	1271.0
160°	1284.8	1283.4	1283.7	1283.8	1284.1	1284.3	1284.5	1284.8	1285.0	1285.2	1285.4
162.5°	1296.9	1295.4	1295.6	1295.9	1296.1	1296.3	1296.7	1297.3	1297.9	1298.5	1299.0
165°	1313.2	1311.4	1311.6	1311.8	1312.1	1312.3	1312.8	1313.5	1314.1	1314.7	1315.4
167.5°	1326.0	1324.2	1324.2	1324.2	1324.2	1324.2	1324.6	1325.6	1326.5	1327.3	1328.3
170°	1333.2	1331.5	1331.5	1331.5	1331.5	1331.5	1331.9	1332.7	1333.7	1334.6	1335.4
172.5°	1338.0	1336.2	1336.0	1335.8	1335.7	1335.5	1335.9	1337.0	1338.1	1339.2	1340.2
175°	1344.0	1342.4	1342.2	1342.0	1341.8	1341.5	1342.0	1343.1	1344.2	1345.3	1346.4
177.5°	1346.3	1344.8	1344.6	1344.5	1344.3	1344.1	1344.5	1345.4	1346.3	1347.1	1348.1
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



TEST NUMBER: P332354-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1376.2	1381.4	1387.9	1397.8	1405.3	1411.9	1413.2	1415.1	1419.9	1427.8	1433.9
5°	1385.2	1398.6	1420.3	1441.4	1464.3	1483.0	1500.6	1512.9	1524.6	1549.2	1569.2
7.5°	1382.3	1412.4	1446.3	1484.2	1522.5	1559.6	1594.1	1625.0	1655.6	1691.5	1732.4
10°	1380.4	1415.7	1461.3	1509.9	1563.3	1615.4	1665.9	1705.1	1750.8	1791.8	1843.9
12.5°	1371.6	1422.2	1476.8	1539.0	1604.6	1664.7	1731.0	1785.2	1837.5	1896.8	1957.4
15°	1359.9	1421.5	1490.6	1573.2	1672.8	1745.5	1813.4	1907.8	1972.3	2036.7	2123.5
17.5°	1338.8	1413.8	1500.2	1607.6	1690.7	1788.3	1890.6	1965.1	2051.9	2142.8	2221.3
20°	1321.9	1409.2	1505.9	1611.4	1717.4	1823.4	1922.4	2011.6	2101.2	2206.1	2270.5
22.5°	1305.0	1391.4	1491.8	1603.9	1717.9	1829.5	1941.6	2046.3	2147.1	2252.9	2335.2
25°	1269.1	1371.7	1480.7	1594.9	1707.4	1830.5	1964.0	2080.7	2205.5	2314.5	2392.4
27.5°	1232.8	1326.8	1435.3	1551.2	1676.3	1821.7	1978.8	2111.3	2236.4	2314.5	2339.0
30°	1200.0	1299.6	1399.2	1517.0	1652.3	1814.6	1981.7	2133.4	2235.9	2269.9	2244.7
32.5°	1166.7	1257.0	1355.6	1476.2	1620.0	1797.3	1985.4	2120.3	2182.0	2156.0	2053.5
35°	1108.0	1189.5	1285.0	1405.7	1570.9	1787.7	1970.0	2061.3	2046.1	1899.6	1706.2
37.5°	1045.2	1111.6	1200.0	1326.2	1520.0	1749.6	1903.3	1916.8	1785.0	1560.1	1336.8
40°	995.5	1055.2	1146.1	1277.9	1480.7	1712.1	1836.3	1781.8	1577.4	1327.1	1140.8
42.5°	947.2	997.6	1085.1	1227.3	1443.2	1661.0	1736.5	1617.8	1381.9	1145.3	975.9
45°	865.4	912.9	1000.7	1146.7	1366.4	1563.3	1553.3	1347.0	1110.9	920.5	779.9
47.5°	787.8	829.3	911.8	1060.8	1276.3	1416.8	1323.6	1104.1	903.9	751.1	650.7
50°	733.0	774.0	856.1	1003.2	1204.1	1306.7	1173.6	962.1	778.7	652.1	572.5
52.5°	680.5	720.6	795.6	938.9	1116.9	1178.2	1035.4	839.3	686.4	577.1	508.7
55°	607.0	637.5	704.9	842.0	975.0	989.0	844.3	680.3	554.3	478.1	431.3
57.5°	532.2	558.4	625.0	734.2	827.4	820.2	682.9	541.1	456.2	399.6	365.7
60°	483.4	509.2	567.7	661.5	731.8	707.2	581.3	467.0	394.3	352.8	325.8
62.5°	437.9	458.1	512.9	581.3	632.0	604.1	496.9	402.3	344.7	309.6	288.3
65°	372.0	388.5	432.4	468.1	496.3	469.3	380.3	314.6	273.0	248.4	233.8
67.5°	309.5	319.9	347.7	360.6	380.4	350.9	285.9	242.0	218.3	197.6	187.4
70°	270.1	277.8	292.4	302.9	308.2	277.8	229.7	197.4	177.5	162.9	156.4
72.5°	230.7	237.5	240.4	249.0	246.3	217.7	184.7	159.0	144.7	134.7	126.5
75°	176.3	179.3	176.3	172.9	165.2	145.3	122.4	109.6	99.0	94.4	91.4
77.5°	128.5	127.6	123.6	118.1	105.1	92.6	80.2	75.9	71.4	68.9	67.8
80°	99.0	96.7	93.2	84.4	73.3	64.5	61.6	58.6	56.8	53.9	53.3
82.5°	73.7	72.3	66.5	59.1	51.2	47.1	44.7	43.6	41.8	40.3	40.2
85°	39.3	37.5	31.1	26.9	25.7	24.6	24.0	24.0	21.7	21.1	21.1
87.5°	13.3	10.9	10.9	10.0	10.4	10.1	11.1	10.8	10.9	11.5	10.8
90°	3.2	5.4	7.7	9.9	12.5	15.3	18.3	21.1	24.0	24.9	25.7
92.5°	18.0	17.4	16.7	16.1	16.9	19.1	21.3	23.4	25.6	27.0	28.4
95°	51.9	42.8	33.7	24.5	21.3	23.7	26.1	28.6	31.0	32.5	34.1
97.5°	118.6	114.4	110.4	106.2	96.3	80.2	64.2	48.2	32.2	34.0	35.7
100°	173.5	178.0	182.4	186.8	171.7	137.1	102.4	67.7	33.0	34.8	36.6
102.5°	225.1	228.3	231.4	234.7	217.3	179.4	141.5	103.7	65.8	60.3	54.8
105°	300.6	303.0	305.4	307.9	299.1	279.1	259.1	239.1	219.0	179.7	140.3
107.5°	380.5	382.5	384.4	386.3	388.9	392.1	395.2	398.4	401.6	372.6	343.8
110°	433.9	435.7	437.5	439.3	441.3	443.8	446.3	448.7	451.2	443.8	436.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.9	486.6	488.2	489.7	491.8	494.2	496.7	499.1	501.5	501.7	501.8
115°	560.5	561.8	563.2	564.5	566.2	568.2	570.2	572.2	574.2	576.4	578.6
117.5°	634.2	635.8	637.6	639.2	640.5	641.5	642.6	643.6	644.6	646.4	648.2
120°	680.2	682.3	684.2	686.2	687.6	688.2	688.9	689.6	690.2	692.0	693.8
122.5°	726.3	727.9	729.5	731.2	732.5	733.3	734.2	734.9	735.8	737.1	738.3
125°	790.1	791.8	793.6	795.4	796.7	797.5	798.5	799.4	800.2	800.7	801.2
127.5°	851.6	853.4	855.2	857.0	858.4	859.5	860.6	861.6	862.6	863.4	864.1
130°	890.1	891.8	893.6	895.4	896.7	897.6	898.5	899.4	900.3	901.2	902.1
132.5°	926.9	928.7	930.4	932.2	933.4	934.2	934.9	935.6	936.3	937.2	938.1
135°	982.7	984.0	985.3	986.6	987.7	988.7	989.5	990.4	991.4	992.0	992.6
137.5°	1031.0	1032.7	1034.4	1036.1	1037.2	1037.7	1038.2	1038.6	1039.1	1040.2	1041.3
140°	1062.6	1064.0	1065.3	1066.7	1067.6	1068.3	1069.0	1069.7	1070.3	1071.3	1072.1
142.5°	1092.3	1093.6	1094.9	1096.3	1097.3	1097.9	1098.6	1099.3	1099.9	1100.7	1101.4
145°	1133.9	1135.5	1137.0	1138.6	1139.6	1140.1	1140.5	1140.9	1141.3	1141.8	1142.3
147.5°	1172.4	1173.5	1174.4	1175.4	1176.2	1176.6	1177.1	1177.5	1177.9	1178.5	1178.9
150°	1196.0	1196.7	1197.4	1198.1	1198.6	1199.0	1199.5	1200.0	1200.4	1200.8	1201.3
152.5°	1217.3	1217.6	1217.9	1218.2	1218.5	1218.7	1219.1	1219.3	1219.6	1220.4	1221.2
155°	1247.0	1246.5	1246.0	1245.6	1245.5	1245.7	1246.0	1246.2	1246.4	1247.5	1248.6
157.5°	1270.9	1270.9	1270.8	1270.8	1270.7	1270.5	1270.2	1270.1	1269.8	1271.2	1272.5
160°	1285.2	1285.0	1284.8	1284.5	1284.3	1284.1	1283.8	1283.7	1283.4	1284.8	1286.1
162.5°	1298.5	1297.9	1297.3	1296.7	1296.3	1296.1	1295.9	1295.6	1295.4	1296.9	1298.5
165°	1314.7	1314.1	1313.5	1312.8	1312.3	1312.1	1311.8	1311.6	1311.4	1313.2	1315.0
167.5°	1327.3	1326.5	1325.6	1324.6	1324.2	1324.2	1324.2	1324.2	1324.2	1326.0	1327.7
170°	1334.6	1333.7	1332.7	1331.9	1331.5	1331.5	1331.5	1331.5	1331.5	1333.2	1335.0
172.5°	1339.2	1338.1	1337.0	1335.9	1335.5	1335.7	1335.8	1336.0	1336.2	1338.0	1339.8
175°	1345.3	1344.2	1343.1	1342.0	1341.5	1341.8	1342.0	1342.2	1342.4	1344.0	1345.6
177.5°	1347.1	1346.3	1345.4	1344.5	1344.1	1344.3	1344.5	1344.6	1344.8	1346.3	1347.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1443.7	1443.7	1445.6	1452.7	1453.6	1459.7	1457.8
5°	1586.7	1597.8	1602.0	1619.5	1630.0	1634.8	1625.4
7.5°	1761.6	1792.9	1807.8	1826.3	1842.5	1847.4	1834.7
10°	1889.0	1921.8	1949.4	1966.4	1982.2	1992.8	2006.2
12.5°	2012.3	2052.6	2078.8	2102.8	2119.1	2132.4	2134.7
15°	2146.3	2207.3	2253.5	2287.5	2304.5	2313.2	2309.8
17.5°	2281.4	2337.9	2370.8	2405.5	2429.1	2430.3	2430.9
20°	2357.8	2412.9	2451.0	2476.8	2503.1	2502.0	2507.8
22.5°	2408.9	2452.3	2481.5	2500.2	2509.2	2504.7	2505.9
25°	2432.8	2445.7	2440.4	2410.5	2403.0	2375.4	2380.1
27.5°	2309.5	2248.6	2185.6	2104.5	2040.5	1989.3	1991.9
30°	2142.2	2034.4	1911.3	1808.2	1715.6	1689.9	1634.8
32.5°	1908.3	1746.5	1602.4	1506.3	1426.8	1405.3	1357.3
35°	1511.7	1354.7	1206.4	1117.4	1082.2	1033.0	1032.4
37.5°	1175.0	1036.7	958.4	891.6	856.5	826.7	823.8
40°	988.5	880.6	821.5	773.4	738.9	716.6	711.4
42.5°	858.2	770.9	715.6	685.8	659.2	647.7	639.1
45°	700.8	642.2	603.5	576.5	564.3	555.4	550.8
47.5°	586.2	546.9	520.6	502.7	492.7	483.4	485.9
50°	523.8	491.6	472.3	455.3	447.6	441.2	441.8
52.5°	473.6	444.7	429.1	416.8	407.3	402.8	400.5
55°	401.9	383.7	368.0	359.2	353.9	347.5	345.7
57.5°	342.9	328.8	315.9	306.0	304.7	298.5	299.3
60°	303.5	291.8	281.3	276.0	271.9	266.6	268.4
62.5°	271.2	261.3	251.8	247.4	243.3	239.4	240.2
65°	222.1	212.7	206.8	204.5	202.8	201.0	199.2
67.5°	176.9	171.3	167.6	162.6	158.9	158.3	156.5
70°	148.9	141.2	134.7	128.3	126.6	126.0	126.6
72.5°	119.3	114.5	112.7	109.6	109.3	107.7	108.7
75°	89.6	87.9	86.7	84.4	84.4	84.4	84.4
77.5°	66.1	65.0	64.3	63.9	63.3	62.4	62.3
80°	51.6	51.0	49.8	49.8	49.2	49.8	49.2
82.5°	38.9	38.8	37.6	37.6	37.0	36.7	37.0
85°	19.9	19.4	20.5	19.4	19.9	18.8	19.9
87.5°	10.9	11.1	10.8	10.8	10.5	11.5	10.7
90°	26.7	27.6	28.2	28.7	29.1	29.5	30.0
92.5°	29.9	31.3	32.1	32.4	32.7	33.0	33.2
95°	35.6	37.2	38.0	38.0	38.0	38.0	38.0
97.5°	37.5	39.3	40.3	40.6	40.8	41.0	41.2
100°	38.3	40.1	41.2	41.3	41.6	41.8	42.0
102.5°	49.2	43.7	41.2	41.6	42.0	42.4	42.8
105°	101.0	61.6	42.3	42.7	43.1	43.6	44.0
107.5°	315.0	286.1	256.8	227.2	197.5	167.9	138.3
110°	429.1	421.8	402.3	370.5	338.6	306.9	275.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	502.0	502.1	498.8	492.1	485.3	478.6	471.9
115°	580.8	583.1	584.6	585.5	586.4	587.3	588.1
117.5°	650.0	651.7	652.7	652.9	653.1	653.2	653.4
120°	695.5	697.3	698.2	698.2	698.2	698.2	698.2
122.5°	739.6	740.8	741.5	741.7	741.8	742.1	742.3
125°	801.6	802.0	802.5	802.9	803.4	803.8	804.3
127.5°	864.8	865.5	865.6	865.2	864.8	864.4	863.8
130°	902.9	903.9	904.0	903.6	903.2	902.8	902.3
132.5°	939.0	939.9	940.0	939.4	938.7	938.1	937.5
135°	993.3	994.0	994.0	993.3	992.6	992.0	991.4
137.5°	1042.3	1043.4	1043.7	1043.3	1042.8	1042.4	1041.9
140°	1073.0	1073.9	1074.1	1073.7	1073.2	1072.8	1072.4
142.5°	1102.1	1102.8	1102.9	1102.3	1101.6	1101.0	1100.4
145°	1142.7	1143.1	1143.3	1143.3	1143.3	1143.3	1143.3
147.5°	1179.3	1179.7	1179.5	1178.5	1177.4	1176.4	1175.4
150°	1201.7	1202.1	1202.0	1201.4	1200.8	1200.1	1199.4
152.5°	1222.0	1222.8	1222.7	1221.7	1220.6	1219.6	1218.6
155°	1249.7	1250.9	1250.7	1249.4	1248.1	1246.7	1245.4
157.5°	1273.8	1275.1	1275.0	1273.2	1271.4	1269.7	1268.0
160°	1287.4	1288.7	1288.7	1287.1	1285.6	1283.9	1282.4
162.5°	1299.9	1301.5	1301.5	1300.1	1298.7	1297.4	1296.0
165°	1316.7	1318.5	1318.6	1317.1	1315.5	1314.0	1312.4
167.5°	1329.6	1331.4	1331.4	1329.6	1327.7	1326.0	1324.2
170°	1336.8	1338.5	1338.5	1336.8	1335.0	1333.2	1331.5
172.5°	1341.5	1343.3	1343.2	1341.3	1339.4	1337.4	1335.4
175°	1347.1	1348.7	1348.5	1346.8	1345.0	1343.2	1341.4
177.5°	1349.1	1350.5	1350.3	1348.6	1346.8	1345.0	1343.2
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4

(END OF REPORT)