

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: P332973-940

Luminaire Tested: **SA4XXRDIP-C1020D1035U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332973-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1020D1035U940-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7552.5 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

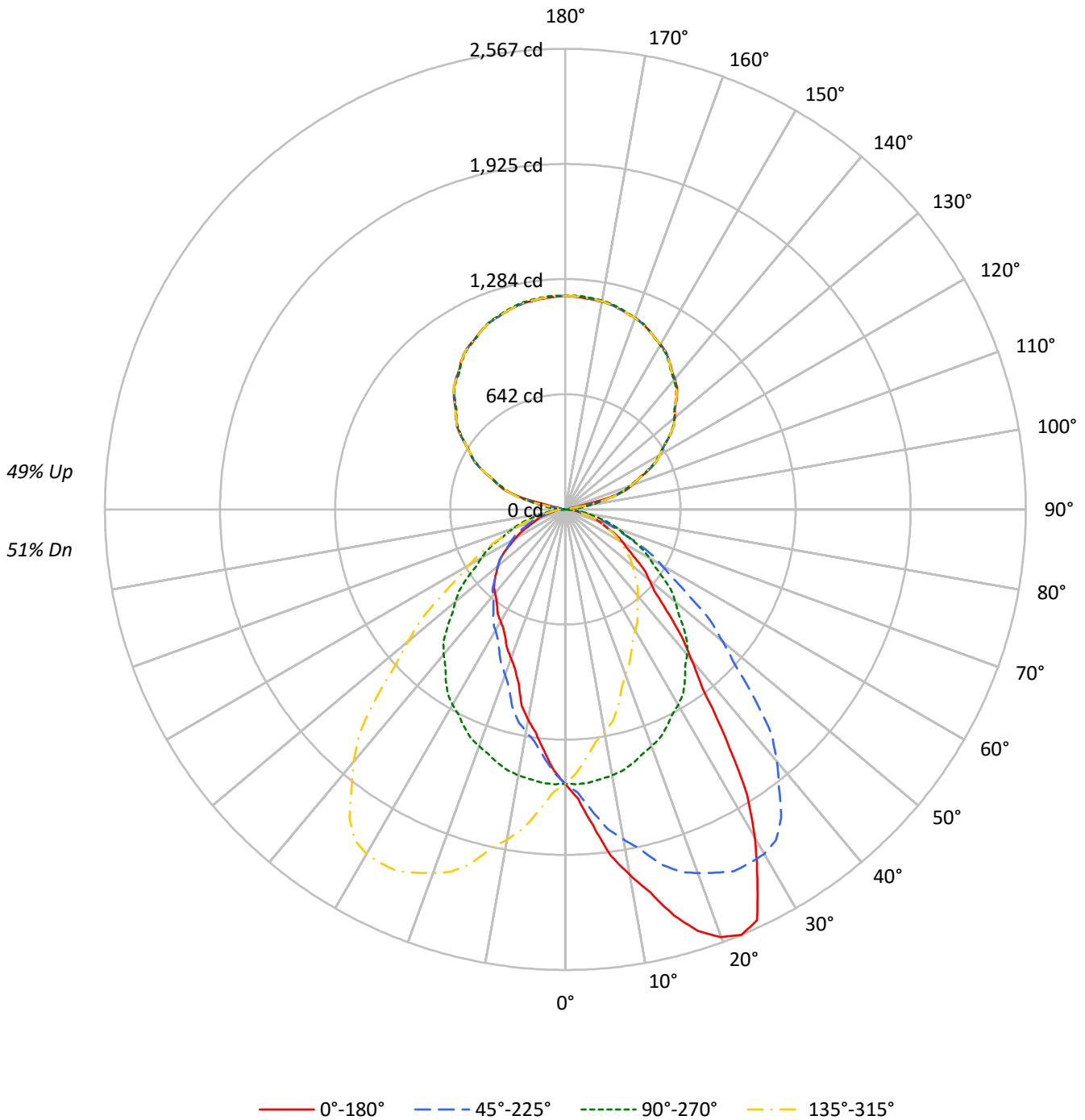
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44				
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38				
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	39	36	32				
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28				
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	33	30	28	25				
6	64	52	44	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22				
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20				
8	55	43	35	30	51	40	34	29	35	30	26	30	26	23	26	22	20	18				
9	51	39	32	27	48	37	30	26	32	27	23	28	24	21	24	20	18	16				
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	16	14				

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

	0°	90°	180°	270°
0°	12352	12352	12352	12352
5°	14327	12388	10950	12388
10°	16948	12336	9773	12336
15°	19578	12221	8398	12221
20°	21798	12064	7594	12064
25°	22502	11909	7050	11909
30°	19699	11723	6723	11723
35°	15334	11446	6525	11446
40°	11499	11129	6418	11129
45°	9079	10620	6361	10620
50°	7665	10034	6179	10034
55°	6681	9388	5847	9388
60°	6011	8719	5176	8719
65°	5299	7996	4451	7996
70°	4773	7246	4015	7246
75°	3999	6422	3425	6422
80°	3384	5472	3208	5472
85°	2862	4279	2862	4279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	2.0
10°-20°	447.2	5.9
20°-30°	699.4	9.3
30°-40°	777.5	10.3
40°-50°	689.9	9.1
50°-60°	537.6	7.1
60°-70°	351.9	4.7
70°-80°	173.1	2.3
80°-90°	46.1	0.6
90°-100°	40.7	0.5
100°-110°	259.5	3.4
110°-120°	496.5	6.6
120°-130°	630.3	8.3
130°-140°	674.3	8.9
140°-150°	630.6	8.3
150°-160°	508.5	6.7
160°-170°	328.0	4.3
170°-180°	113.0	1.5
0°-30°	1294.9	17.1
0°-40°	2072.4	27.4
0°-60°	3299.8	43.7
0°-90°	3871.0	51.3
90°-120°	796.7	10.5
90°-150°	2731.9	36.2
90°-180°	3681.0	48.7
0°-180°	7552.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1530	1530	1530	1530	1530	
5°	1768	1529	1351	1529	1768	179
15°	2342	1462	1005	1462	2342	666
25°	2526	1337	792	1337	2526	1121
35°	1556	1161	662	1161	1556	975
45°	795	930	557	930	795	630
55°	475	667	415	667	475	432
65°	277	419	233	419	277	279
75°	128	206	110	206	128	141
85°	31	46	31	46	31	35
90°	27	3	27	3	27	13
95°	26	49	26	49	26	21
105°	254	268	254	268	254	221
115°	504	500	504	500	504	499
125°	709	703	709	703	709	631
135°	879	872	879	872	879	676
145°	1011	1006	1011	1006	1011	632
155°	1102	1103	1102	1103	1102	508
165°	1158	1163	1158	1163	1158	327
175°	1183	1190	1183	1190	1183	113
180°	1190	1190	1190	1190	1190	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1613.8	1618.3	1613.8	1613.4	1608.5	1607.0	1605.0	1598.6	1586.7	1579.8	1581.3
5°	1768.0	1783.3	1774.8	1773.5	1760.0	1746.4	1737.8	1718.1	1697.1	1682.9	1671.2
7.5°	1946.2	1955.1	1949.7	1941.1	1919.1	1906.7	1886.7	1860.6	1823.1	1794.3	1768.1
10°	2067.5	2074.9	2072.5	2056.5	2040.4	2007.8	1989.2	1952.9	1905.4	1867.9	1832.6
12.5°	2186.9	2194.8	2173.1	2173.8	2143.5	2117.7	2088.4	2042.6	1987.8	1939.3	1895.3
15°	2342.5	2332.6	2332.6	2320.3	2286.3	2250.7	2220.4	2172.4	2103.3	2045.3	1984.3
17.5°	2464.3	2467.7	2462.7	2433.6	2407.0	2370.0	2314.6	2258.5	2194.4	2116.7	2054.2
20°	2537.3	2537.3	2531.7	2512.0	2477.5	2438.0	2378.3	2317.2	2235.9	2157.6	2087.3
22.5°	2566.9	2568.8	2562.3	2546.0	2515.0	2476.5	2425.5	2363.6	2279.7	2191.6	2104.5
25°	2526.2	2537.9	2539.1	2534.8	2525.6	2502.1	2458.4	2394.9	2319.7	2224.1	2130.4
27.5°	2319.3	2334.1	2347.1	2368.4	2396.7	2411.5	2413.5	2381.2	2315.6	2223.7	2129.3
30°	2113.2	2125.5	2165.6	2218.0	2258.6	2295.6	2327.7	2336.3	2299.4	2216.7	2117.5
32.5°	1884.4	1901.1	1941.2	1997.5	2065.3	2128.0	2199.9	2236.7	2235.7	2186.1	2094.3
35°	1555.9	1568.3	1605.3	1664.4	1745.8	1838.9	1952.9	2041.7	2102.0	2097.7	2041.7
37.5°	1254.8	1268.7	1306.1	1355.2	1434.1	1549.3	1659.7	1782.0	1893.7	1956.5	1937.7
40°	1091.1	1091.7	1128.1	1178.7	1252.6	1353.1	1473.3	1608.9	1733.4	1835.1	1854.8
42.5°	961.9	962.0	986.1	1040.5	1093.9	1188.4	1303.1	1437.8	1583.5	1701.0	1753.3
45°	795.2	800.8	820.5	853.2	895.1	975.2	1067.0	1192.2	1355.6	1494.9	1581.8
47.5°	673.4	681.5	694.1	720.8	754.1	807.5	883.5	996.0	1128.8	1282.1	1405.8
50°	610.3	611.5	627.5	642.3	671.3	713.8	780.4	874.1	996.1	1143.5	1280.9
52.5°	556.1	555.8	565.4	584.2	607.7	640.9	694.6	779.9	888.1	1020.2	1162.1
55°	474.7	477.8	485.2	499.9	517.8	541.3	583.8	647.9	733.0	845.8	974.6
57.5°	412.8	414.4	420.2	426.4	442.8	459.9	491.8	536.3	608.1	700.4	820.5
60°	372.3	372.9	374.8	384.1	397.0	413.0	434.6	472.2	532.6	617.1	712.0
62.5°	332.9	333.9	336.8	343.6	353.6	364.7	387.3	417.5	467.5	539.7	625.2
65°	277.4	278.0	282.3	284.8	292.8	302.6	319.3	339.7	374.2	434.6	499.4
67.5°	231.8	231.8	232.0	235.3	240.9	247.4	257.4	273.7	299.7	336.8	393.9
70°	202.2	202.2	203.4	205.3	208.4	213.9	219.5	231.8	250.9	281.1	324.9
72.5°	174.6	175.0	176.3	176.6	178.3	182.8	186.9	194.8	209.0	231.8	267.2
75°	128.2	130.1	133.1	135.6	138.7	138.1	142.4	147.3	151.7	165.2	185.6
77.5°	95.4	94.4	94.8	96.9	97.3	97.9	100.9	104.8	108.0	114.4	121.7
80°	72.8	72.8	74.5	75.2	74.5	75.2	78.3	80.2	81.4	83.8	90.6
82.5°	55.0	56.0	55.4	56.0	56.4	57.0	59.6	59.9	61.2	62.2	65.0
85°	30.9	31.5	32.0	30.9	30.9	30.9	32.0	32.6	33.9	33.3	34.5
87.5°	16.2	15.6	16.1	16.0	16.4	15.7	16.0	16.8	15.5	15.8	15.4
90°	26.7	26.3	25.9	25.5	25.1	24.3	23.2	21.9	20.8	19.6	18.0
92.5°	24.6	24.5	24.4	24.3	24.3	23.6	22.5	21.2	20.1	18.9	17.3
95°	25.8	25.6	25.4	25.2	25.1	24.3	23.2	21.9	20.8	19.6	19.4
97.5°	25.0	24.7	24.5	24.3	24.2	24.0	23.9	23.7	23.6	23.5	45.6
100°	25.0	24.7	24.5	24.3	24.2	25.7	29.1	32.5	35.8	39.1	66.4
102.5°	25.7	25.6	25.6	25.5	25.5	43.6	79.9	116.2	152.4	188.7	192.3
105°	253.7	260.8	268.0	275.1	282.2	284.8	283.0	281.3	279.6	277.8	276.8
107.5°	353.6	352.8	352.0	351.3	350.5	349.7	348.9	348.0	347.1	346.3	344.9
110°	397.0	396.5	395.8	395.2	394.7	394.1	393.8	393.3	393.0	392.5	391.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	440.4	439.7	439.0	438.2	437.5	437.1	437.2	437.3	437.4	437.4	436.8
115°	503.8	503.8	503.8	503.8	503.8	503.6	503.3	502.8	502.5	502.0	502.2
117.5°	568.3	568.4	568.5	568.6	568.6	568.6	568.7	568.8	568.9	569.0	568.6
120°	608.9	609.3	609.7	610.0	610.5	610.5	610.0	609.7	609.3	608.9	609.0
122.5°	648.7	649.2	649.5	650.0	650.3	650.4	650.1	650.0	649.7	649.4	649.2
125°	708.6	708.4	708.2	708.0	707.8	707.4	706.8	706.2	705.6	705.0	705.4
127.5°	761.1	761.3	761.4	761.6	761.7	761.9	762.0	762.1	762.2	762.3	761.4
130°	796.7	796.7	796.7	796.7	796.7	796.6	796.4	796.2	796.0	795.9	795.2
132.5°	829.5	829.6	829.7	829.9	830.1	830.1	829.9	829.6	829.5	829.3	828.5
135°	878.6	878.2	877.8	877.4	877.0	876.6	876.2	875.8	875.4	875.0	874.2
137.5°	920.6	920.7	920.9	921.0	921.0	921.0	920.5	920.1	919.6	919.2	918.3
140°	949.9	949.6	949.4	949.2	949.0	948.6	948.1	947.4	946.8	946.3	945.8
142.5°	974.0	974.0	973.9	973.9	973.8	973.7	973.2	972.8	972.3	971.9	971.6
145°	1011.2	1010.8	1010.4	1010.0	1009.7	1009.3	1009.1	1009.0	1008.8	1008.5	1008.5
147.5°	1042.1	1041.9	1041.6	1041.4	1041.3	1041.1	1040.9	1040.7	1040.6	1040.4	1040.6
150°	1061.9	1061.8	1061.6	1061.4	1061.1	1061.0	1061.0	1061.0	1061.0	1061.0	1061.3
152.5°	1079.1	1079.1	1079.3	1079.4	1079.5	1079.4	1079.1	1078.8	1078.5	1078.2	1078.5
155°	1102.1	1102.6	1103.2	1103.8	1104.4	1104.3	1103.5	1102.7	1101.9	1101.2	1101.7
157.5°	1121.2	1122.3	1123.3	1124.4	1125.3	1125.3	1124.4	1123.3	1122.3	1121.2	1122.0
160°	1134.1	1135.2	1136.5	1137.6	1138.8	1138.8	1137.6	1136.5	1135.2	1134.1	1134.3
162.5°	1144.1	1145.4	1146.7	1148.1	1149.4	1149.5	1148.3	1147.1	1145.9	1144.8	1145.0
165°	1158.1	1159.8	1161.6	1163.4	1165.2	1165.3	1163.8	1162.2	1160.6	1159.0	1159.0
167.5°	1168.6	1170.5	1172.6	1174.6	1176.5	1176.6	1174.9	1173.1	1171.4	1169.7	1169.8
170°	1175.0	1177.0	1179.0	1181.0	1182.9	1183.1	1181.5	1180.0	1178.4	1176.8	1176.6
172.5°	1178.6	1180.7	1182.9	1185.0	1187.1	1187.4	1185.8	1184.3	1182.7	1181.1	1180.9
175°	1183.0	1185.4	1187.8	1190.2	1192.5	1192.8	1191.1	1189.3	1187.5	1185.7	1185.5
177.5°	1185.9	1187.8	1189.7	1191.6	1193.5	1193.8	1192.5	1191.2	1190.0	1188.7	1188.4
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1576.4	1569.5	1566.0	1558.1	1548.7	1543.8	1539.4	1532.9	1524.6	1515.7	1509.3
5°	1656.4	1641.6	1623.1	1600.9	1581.2	1562.1	1545.4	1528.7	1509.7	1490.0	1470.3
7.5°	1738.5	1709.4	1677.9	1641.6	1606.2	1574.0	1544.4	1516.1	1484.0	1455.3	1429.1
10°	1795.7	1756.2	1712.4	1666.3	1620.0	1579.9	1540.5	1504.8	1465.3	1430.1	1400.5
12.5°	1842.1	1795.7	1743.0	1685.5	1629.9	1581.4	1536.1	1489.4	1444.6	1406.5	1367.0
15°	1919.0	1855.5	1784.6	1715.6	1643.4	1577.4	1516.4	1462.2	1411.0	1357.5	1319.8
17.5°	1971.8	1896.6	1810.4	1727.4	1642.2	1564.4	1494.0	1429.4	1370.4	1315.6	1270.9
20°	2003.4	1920.2	1824.7	1730.4	1634.8	1551.6	1475.8	1404.3	1343.3	1284.1	1237.8
22.5°	2021.2	1929.1	1824.7	1725.9	1626.9	1536.8	1453.6	1379.1	1312.7	1253.5	1202.3
25°	2026.9	1928.2	1821.6	1708.2	1599.6	1504.1	1417.8	1337.0	1263.1	1203.9	1149.7
27.5°	2019.0	1902.8	1793.6	1677.2	1565.3	1464.5	1373.9	1289.1	1215.0	1151.6	1095.9
30°	2007.2	1882.6	1765.5	1644.7	1531.2	1434.5	1338.9	1257.6	1180.4	1114.5	1058.5
32.5°	1981.5	1858.0	1732.0	1608.2	1493.3	1393.6	1302.9	1221.0	1145.5	1078.1	1018.5
35°	1930.7	1805.5	1668.7	1541.8	1428.9	1325.3	1240.3	1161.4	1089.2	1017.2	954.2
37.5°	1863.8	1735.9	1599.8	1460.7	1347.8	1250.0	1172.0	1097.9	1027.5	961.6	892.0
40°	1800.6	1684.1	1543.6	1405.5	1289.6	1195.2	1123.2	1056.0	985.1	919.7	850.1
42.5°	1724.2	1625.0	1482.9	1344.3	1229.9	1139.1	1071.8	1006.1	941.6	878.3	805.7
45°	1596.6	1521.3	1388.2	1255.1	1139.8	1049.8	988.2	930.2	873.5	813.1	744.7
47.5°	1450.4	1399.5	1284.5	1148.2	1041.5	960.6	901.0	853.6	805.7	745.3	685.3
50°	1348.8	1316.1	1205.1	1080.7	978.9	904.3	843.3	798.9	758.8	700.9	647.3
52.5°	1240.3	1222.9	1129.2	1010.1	911.9	838.7	786.6	746.6	706.1	658.0	607.8
55°	1075.0	1084.3	1004.8	901.9	809.4	747.8	700.3	667.0	632.5	591.8	552.9
57.5°	906.2	940.0	886.5	796.2	709.5	652.6	616.8	588.8	559.8	526.1	492.9
60°	805.0	833.4	803.3	723.7	647.9	594.9	561.6	540.0	511.0	480.2	455.0
62.5°	706.4	736.7	718.9	654.7	584.2	538.7	509.3	489.2	467.6	440.8	414.5
65°	582.6	602.3	593.6	549.3	499.4	460.5	433.4	418.6	398.9	379.2	355.7
67.5°	446.2	484.3	479.2	455.7	412.5	382.2	364.4	351.3	333.4	318.7	302.8
70°	366.8	401.9	401.3	382.2	358.7	330.4	318.1	307.0	291.0	276.8	263.9
72.5°	300.2	332.4	337.2	322.5	306.5	285.1	273.2	265.6	250.0	240.3	229.8
75°	210.2	233.6	239.8	239.8	232.4	221.3	210.8	205.9	194.8	186.2	180.0
77.5°	137.9	152.7	162.3	164.4	165.6	161.8	153.3	149.8	141.2	138.2	132.3
80°	97.4	107.3	118.3	122.1	125.1	123.9	120.2	117.7	109.8	106.6	104.2
82.5°	67.3	72.8	81.9	90.0	89.2	92.4	89.2	87.2	81.1	80.0	77.6
85°	35.1	35.8	37.0	42.5	45.7	46.8	47.4	46.2	44.4	44.4	40.0
87.5°	15.2	14.3	15.0	14.6	14.6	16.2	17.2	17.3	16.2	15.2	14.2
90°	16.4	14.8	13.3	11.4	9.2	7.0	4.8	2.7	4.8	7.0	9.2
92.5°	15.7	14.1	12.6	11.7	11.6	11.4	11.3	11.2	11.3	11.4	11.6
95°	19.2	19.0	18.8	22.0	28.8	35.5	42.3	49.0	42.3	35.5	28.8
97.5°	67.7	89.7	111.8	120.7	116.5	112.4	108.2	104.0	108.2	112.4	116.5
100°	93.8	121.1	148.4	160.2	156.7	153.1	149.5	146.0	149.5	153.1	156.7
102.5°	195.8	199.4	203.0	203.4	200.8	198.2	195.6	193.0	195.6	198.2	200.8
105°	275.7	274.7	273.8	272.7	271.5	270.3	269.1	268.0	269.1	270.3	271.5
107.5°	343.6	342.2	340.9	339.9	339.3	338.8	338.1	337.5	338.1	338.8	339.3
110°	390.2	389.0	387.8	386.9	386.3	385.8	385.1	384.6	385.1	385.8	386.3





TEST NUMBER: P332973-940

CATALOG NUMBER: SA4XXRDIP-C1020D1035U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	436.3	435.8	435.2	434.4	433.4	432.3	431.2	430.2	431.2	432.3	433.4
115°	502.5	502.7	502.8	502.7	502.0	501.5	500.9	500.2	500.9	501.5	502.0
117.5°	568.1	567.7	567.2	566.7	565.9	565.1	564.3	563.5	564.3	565.1	565.9
120°	609.3	609.5	609.7	609.4	608.6	607.8	607.0	606.2	607.0	607.8	608.6
122.5°	648.9	648.6	648.4	648.0	647.5	647.0	646.6	646.0	646.6	647.0	647.5
125°	705.8	706.2	706.6	706.4	705.6	704.8	704.0	703.2	704.0	704.8	705.6
127.5°	760.5	759.6	758.7	758.1	758.0	757.8	757.5	757.3	757.5	757.8	758.0
130°	794.6	794.1	793.4	793.0	792.8	792.6	792.5	792.3	792.5	792.6	792.8
132.5°	827.8	827.1	826.3	825.7	825.4	825.0	824.7	824.3	824.7	825.0	825.4
135°	873.4	872.6	871.8	871.6	871.7	872.0	872.2	872.4	872.2	872.0	871.7
137.5°	917.5	916.6	915.7	915.3	915.2	915.1	915.0	914.9	915.0	915.1	915.2
140°	945.5	945.0	944.7	944.2	943.9	943.5	943.1	942.7	943.1	943.5	943.9
142.5°	971.4	971.2	970.9	970.4	969.7	969.0	968.3	967.6	968.3	969.0	969.7
145°	1008.5	1008.5	1008.5	1008.3	1007.6	1007.1	1006.5	1005.8	1006.5	1007.1	1007.6
147.5°	1040.8	1041.0	1041.3	1040.8	1039.6	1038.6	1037.4	1036.3	1037.4	1038.6	1039.6
150°	1061.5	1061.7	1061.8	1061.6	1060.8	1060.0	1059.2	1058.4	1059.2	1060.0	1060.8
152.5°	1078.9	1079.2	1079.6	1079.4	1078.8	1078.2	1077.5	1076.9	1077.5	1078.2	1078.8
155°	1102.3	1103.0	1103.5	1103.7	1103.5	1103.3	1103.1	1103.0	1103.1	1103.3	1103.5
157.5°	1122.6	1123.3	1123.9	1124.4	1124.4	1124.5	1124.7	1124.8	1124.7	1124.5	1124.4
160°	1134.4	1134.7	1134.9	1135.2	1135.9	1136.5	1137.0	1137.6	1137.0	1136.5	1135.9
162.5°	1145.1	1145.3	1145.6	1146.0	1146.7	1147.5	1148.3	1149.1	1148.3	1147.5	1146.7
165°	1159.0	1159.0	1159.0	1159.5	1160.5	1161.5	1162.4	1163.4	1162.4	1161.5	1160.5
167.5°	1169.9	1170.0	1170.2	1170.7	1171.8	1172.8	1173.8	1174.8	1173.8	1172.8	1171.8
170°	1176.4	1176.2	1176.0	1176.5	1177.7	1178.8	1180.1	1181.2	1180.1	1178.8	1177.7
172.5°	1180.7	1180.4	1180.3	1180.8	1182.0	1183.1	1184.4	1185.5	1184.4	1183.1	1182.0
175°	1185.4	1185.1	1184.9	1185.4	1186.6	1187.8	1189.0	1190.2	1189.0	1187.8	1186.6
177.5°	1188.1	1187.8	1187.5	1187.8	1189.0	1190.1	1191.1	1192.3	1191.1	1190.1	1189.0
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1502.4	1497.4	1491.0	1483.6	1474.8	1466.9	1463.5	1466.4	1467.8	1463.9	1463.5
5°	1456.7	1441.3	1428.9	1410.4	1395.6	1383.3	1374.7	1371.0	1372.2	1362.4	1359.9
7.5°	1405.2	1387.0	1366.8	1344.8	1324.4	1306.3	1296.7	1291.6	1281.1	1276.7	1269.2
10°	1372.2	1347.6	1327.8	1301.9	1278.5	1257.0	1246.4	1237.8	1227.4	1222.4	1211.9
12.5°	1338.2	1309.6	1287.9	1261.0	1237.1	1211.0	1201.0	1185.1	1168.7	1158.3	1144.9
15°	1290.2	1255.7	1229.2	1197.1	1168.8	1139.2	1112.7	1083.1	1072.0	1048.6	1035.0
17.5°	1234.1	1199.1	1166.3	1123.3	1079.5	1042.8	1014.5	986.1	969.2	954.2	947.4
20°	1197.1	1165.1	1119.5	1069.5	1020.8	980.2	957.3	938.9	920.3	909.9	902.5
22.5°	1162.1	1121.1	1068.2	1014.3	965.6	933.8	914.4	895.5	880.4	870.4	860.6
25°	1103.4	1049.8	993.7	932.1	898.8	871.0	850.1	834.6	825.5	812.4	807.5
27.5°	1043.1	978.2	916.3	874.9	840.2	814.8	796.6	785.0	773.3	765.0	758.6
30°	996.8	930.9	875.4	835.9	800.8	779.8	765.0	751.4	742.2	735.4	730.5
32.5°	950.9	884.9	838.4	795.9	768.2	747.8	732.0	721.8	714.6	705.8	702.8
35°	884.6	826.0	785.3	747.2	718.8	700.3	688.0	677.4	671.3	668.9	667.0
37.5°	820.8	772.9	729.2	697.9	672.5	658.0	643.5	638.3	634.1	629.6	631.6
40°	780.4	735.4	696.6	663.3	642.9	627.0	618.3	612.2	608.4	608.4	608.4
42.5°	745.4	701.4	663.5	633.7	613.3	599.8	590.2	585.0	583.8	583.3	586.2
45°	691.1	650.3	612.2	587.5	570.2	556.6	551.1	546.8	546.8	549.3	549.8
47.5°	637.1	599.1	568.4	540.7	525.0	516.5	511.7	509.4	509.7	512.1	515.0
50°	604.1	566.5	536.3	511.7	496.9	488.8	484.6	483.3	484.6	484.6	488.8
52.5°	568.1	534.5	504.7	484.0	467.3	459.8	457.4	455.7	456.4	458.4	460.2
55°	515.3	485.2	456.8	437.0	424.7	419.8	414.3	414.8	413.7	414.8	414.8
57.5°	462.4	435.3	408.9	393.3	382.5	375.3	369.3	371.0	369.2	368.9	367.9
60°	428.5	398.9	377.9	363.7	351.3	345.2	339.7	340.9	339.0	337.8	335.4
62.5°	391.5	366.8	346.8	333.1	323.2	316.1	310.6	309.3	305.1	300.9	295.4
65°	337.8	317.4	299.6	286.7	277.4	271.9	267.5	263.9	254.6	244.7	239.8
67.5°	285.7	271.0	254.3	243.3	235.9	228.5	220.3	214.0	205.4	200.0	196.9
70°	252.1	237.9	223.7	213.3	205.3	198.5	189.2	184.9	178.8	176.3	173.3
72.5°	220.1	206.9	193.7	184.2	175.7	170.4	163.1	158.8	156.0	155.1	152.0
75°	171.4	160.9	151.1	142.4	135.6	131.9	128.9	125.7	124.5	119.0	115.9
77.5°	125.0	118.2	111.9	105.8	100.9	98.5	92.6	89.0	86.9	84.4	83.7
80°	97.4	92.5	86.3	82.6	75.8	73.4	70.9	70.3	69.6	69.0	68.4
82.5°	73.2	68.3	62.2	59.9	58.1	56.6	55.1	54.5	53.9	54.2	54.1
85°	37.0	34.5	34.5	33.9	33.3	32.6	32.0	32.0	31.5	32.0	31.5
87.5°	14.6	14.4	14.8	14.1	15.0	15.2	15.0	15.2	16.0	15.2	15.3
90°	11.4	13.3	14.8	16.4	18.0	19.6	20.8	21.9	23.2	24.3	25.1
92.5°	11.7	12.6	14.1	15.7	17.3	18.9	20.1	21.2	22.5	23.6	24.3
95°	22.0	18.8	19.0	19.2	19.4	19.6	20.8	21.9	23.2	24.3	25.1
97.5°	120.7	111.8	89.7	67.7	45.6	23.5	23.6	23.7	23.9	24.0	24.2
100°	160.2	148.4	121.1	93.8	66.4	39.1	35.8	32.5	29.1	25.7	24.2
102.5°	203.4	203.0	199.4	195.8	192.3	188.7	152.4	116.2	79.9	43.6	25.5
105°	272.7	273.8	274.7	275.7	276.8	277.8	279.6	281.3	283.0	284.8	282.2
107.5°	339.9	340.9	342.2	343.6	344.9	346.3	347.1	348.0	348.9	349.7	350.5
110°	386.9	387.8	389.0	390.2	391.4	392.5	393.0	393.3	393.8	394.1	394.7



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	434.4	435.2	435.8	436.3	436.8	437.4	437.4	437.3	437.2	437.1	437.5
115°	502.7	502.8	502.7	502.5	502.2	502.0	502.5	502.8	503.3	503.6	503.8
117.5°	566.7	567.2	567.7	568.1	568.6	569.0	568.9	568.8	568.7	568.6	568.6
120°	609.4	609.7	609.5	609.3	609.0	608.9	609.3	609.7	610.0	610.5	610.5
122.5°	648.0	648.4	648.6	648.9	649.2	649.4	649.7	650.0	650.1	650.4	650.3
125°	706.4	706.6	706.2	705.8	705.4	705.0	705.6	706.2	706.8	707.4	707.8
127.5°	758.1	758.7	759.6	760.5	761.4	762.3	762.2	762.1	762.0	761.9	761.7
130°	793.0	793.4	794.1	794.6	795.2	795.9	796.0	796.2	796.4	796.6	796.7
132.5°	825.7	826.3	827.1	827.8	828.5	829.3	829.5	829.6	829.9	830.1	830.1
135°	871.6	871.8	872.6	873.4	874.2	875.0	875.4	875.8	876.2	876.6	877.0
137.5°	915.3	915.7	916.6	917.5	918.3	919.2	919.6	920.1	920.5	921.0	921.0
140°	944.2	944.7	945.0	945.5	945.8	946.3	946.8	947.4	948.1	948.6	949.0
142.5°	970.4	970.9	971.2	971.4	971.6	971.9	972.3	972.8	973.2	973.7	973.8
145°	1008.3	1008.5	1008.5	1008.5	1008.5	1008.5	1008.8	1009.0	1009.1	1009.3	1009.7
147.5°	1040.8	1041.3	1041.0	1040.8	1040.6	1040.4	1040.6	1040.7	1040.9	1041.1	1041.3
150°	1061.6	1061.8	1061.7	1061.5	1061.3	1061.0	1061.0	1061.0	1061.0	1061.0	1061.1
152.5°	1079.4	1079.6	1079.2	1078.9	1078.5	1078.2	1078.5	1078.8	1079.1	1079.4	1079.5
155°	1103.7	1103.5	1103.0	1102.3	1101.7	1101.2	1101.9	1102.7	1103.5	1104.3	1104.4
157.5°	1124.4	1123.9	1123.3	1122.6	1122.0	1121.2	1122.3	1123.3	1124.4	1125.3	1125.3
160°	1135.2	1134.9	1134.7	1134.4	1134.3	1134.1	1135.2	1136.5	1137.6	1138.8	1138.8
162.5°	1146.0	1145.6	1145.3	1145.1	1145.0	1144.8	1145.9	1147.1	1148.3	1149.5	1149.4
165°	1159.5	1159.0	1159.0	1159.0	1159.0	1159.0	1160.6	1162.2	1163.8	1165.3	1165.2
167.5°	1170.7	1170.2	1170.0	1169.9	1169.8	1169.7	1171.4	1173.1	1174.9	1176.6	1176.5
170°	1176.5	1176.0	1176.2	1176.4	1176.6	1176.8	1178.4	1180.0	1181.5	1183.1	1182.9
172.5°	1180.8	1180.3	1180.4	1180.7	1180.9	1181.1	1182.7	1184.3	1185.8	1187.4	1187.1
175°	1185.4	1184.9	1185.1	1185.4	1185.5	1185.7	1187.5	1189.3	1191.1	1192.8	1192.5
177.5°	1187.8	1187.5	1187.8	1188.1	1188.4	1188.7	1190.0	1191.2	1192.5	1193.8	1193.5
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



TEST NUMBER: P332973-940

CATALOG NUMBER: SA4XXRDIP-C1020D1035U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1460.4	1461.4	1458.0	1457.1	1458.0	1461.4	1460.4	1463.5	1463.9	1467.8	1466.4
5°	1355.0	1353.7	1350.6	1351.2	1350.6	1353.7	1355.0	1359.9	1362.4	1372.2	1371.0
7.5°	1264.7	1259.9	1261.2	1256.3	1261.2	1259.9	1264.7	1269.2	1276.7	1281.1	1291.6
10°	1209.4	1202.7	1197.1	1192.2	1197.1	1202.7	1209.4	1211.9	1222.4	1227.4	1237.8
12.5°	1134.0	1128.2	1120.7	1122.2	1120.7	1128.2	1134.0	1144.9	1158.3	1168.7	1185.1
15°	1027.0	1017.7	1003.0	1004.8	1003.0	1017.7	1027.0	1035.0	1048.6	1072.0	1083.1
17.5°	936.4	936.5	929.7	931.3	929.7	936.5	936.4	947.4	954.2	969.2	986.1
20°	889.6	885.2	885.8	884.0	885.8	885.2	889.6	902.5	909.9	920.3	938.9
22.5°	857.0	851.7	847.4	843.6	847.4	851.7	857.0	860.6	870.4	880.4	895.5
25°	802.0	798.3	792.7	791.5	792.7	798.3	802.0	807.5	812.4	825.5	834.6
27.5°	753.7	753.0	750.7	747.9	750.7	753.0	753.7	758.6	765.0	773.3	785.0
30°	725.6	724.3	723.1	721.2	723.1	724.3	725.6	730.5	735.4	742.2	751.4
32.5°	700.4	699.6	698.4	698.6	698.4	699.6	700.4	702.8	705.8	714.6	721.8
35°	664.5	663.9	662.7	662.1	662.7	663.9	664.5	667.0	668.9	671.3	677.4
37.5°	631.0	632.6	631.9	631.7	631.9	632.6	631.0	631.6	629.6	634.1	638.3
40°	607.8	608.4	609.7	609.0	609.7	608.4	607.8	608.4	608.4	608.4	612.2
42.5°	588.6	588.7	590.4	588.4	590.4	588.7	588.6	586.2	583.3	583.8	585.0
45°	554.2	557.9	557.2	557.2	557.2	557.9	554.2	549.8	549.3	546.8	546.8
47.5°	516.6	519.8	520.7	520.5	520.7	519.8	516.6	515.0	512.1	509.7	509.4
50°	492.0	490.7	492.6	492.0	492.6	490.7	492.0	488.8	484.6	484.6	483.3
52.5°	461.8	462.1	462.0	461.4	462.0	462.1	461.8	460.2	458.4	456.4	455.7
55°	415.4	416.1	414.8	415.4	414.8	416.1	415.4	414.8	414.8	413.7	414.8
57.5°	365.2	362.2	363.5	361.9	363.5	362.2	365.2	367.9	368.9	369.2	371.0
60°	329.2	324.2	323.0	320.6	323.0	324.2	329.2	335.4	337.8	339.0	340.9
62.5°	288.7	285.3	281.1	283.0	281.1	285.3	288.7	295.4	300.9	305.1	309.3
65°	234.9	232.4	230.5	233.0	230.5	232.4	234.9	239.8	244.7	254.6	263.9
67.5°	194.4	193.1	193.1	191.8	193.1	193.1	194.4	196.9	200.0	205.4	214.0
70°	173.3	171.4	171.4	170.1	171.4	171.4	173.3	173.3	176.3	178.8	184.9
72.5°	151.5	149.6	150.2	149.5	150.2	149.6	151.5	152.0	155.1	156.0	158.8
75°	112.2	109.1	109.1	109.8	109.1	109.1	112.2	115.9	119.0	124.5	125.7
77.5°	83.7	83.1	84.0	82.8	84.0	83.1	83.7	83.7	84.4	86.9	89.0
80°	68.4	67.8	67.2	69.0	67.2	67.8	68.4	68.4	69.0	69.6	70.3
82.5°	53.1	53.1	52.9	55.2	52.9	53.1	53.1	54.1	54.2	53.9	54.5
85°	32.0	30.9	32.0	30.9	32.0	30.9	32.0	31.5	32.0	31.5	32.0
87.5°	16.4	16.1	15.6	16.2	15.6	16.1	16.4	15.3	15.2	16.0	15.2
90°	25.5	25.9	26.3	26.7	26.3	25.9	25.5	25.1	24.3	23.2	21.9
92.5°	24.3	24.4	24.5	24.6	24.5	24.4	24.3	24.3	23.6	22.5	21.2
95°	25.2	25.4	25.6	25.8	25.6	25.4	25.2	25.1	24.3	23.2	21.9
97.5°	24.3	24.5	24.7	25.0	24.7	24.5	24.3	24.2	24.0	23.9	23.7
100°	24.3	24.5	24.7	25.0	24.7	24.5	24.3	24.2	25.7	29.1	32.5
102.5°	25.5	25.6	25.6	25.7	25.6	25.6	25.5	25.5	43.6	79.9	116.2
105°	275.1	268.0	260.8	253.7	260.8	268.0	275.1	282.2	284.8	283.0	281.3
107.5°	351.3	352.0	352.8	353.6	352.8	352.0	351.3	350.5	349.7	348.9	348.0
110°	395.2	395.8	396.5	397.0	396.5	395.8	395.2	394.7	394.1	393.8	393.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	438.2	439.0	439.7	440.4	439.7	439.0	438.2	437.5	437.1	437.2	437.3
115°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.6	503.3	502.8
117.5°	568.6	568.5	568.4	568.3	568.4	568.5	568.6	568.6	568.6	568.7	568.8
120°	610.0	609.7	609.3	608.9	609.3	609.7	610.0	610.5	610.5	610.0	609.7
122.5°	650.0	649.5	649.2	648.7	649.2	649.5	650.0	650.3	650.4	650.1	650.0
125°	708.0	708.2	708.4	708.6	708.4	708.2	708.0	707.8	707.4	706.8	706.2
127.5°	761.6	761.4	761.3	761.1	761.3	761.4	761.6	761.7	761.9	762.0	762.1
130°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.6	796.4	796.2
132.5°	829.9	829.7	829.6	829.5	829.6	829.7	829.9	830.1	830.1	829.9	829.6
135°	877.4	877.8	878.2	878.6	878.2	877.8	877.4	877.0	876.6	876.2	875.8
137.5°	921.0	920.9	920.7	920.6	920.7	920.9	921.0	921.0	921.0	920.5	920.1
140°	949.2	949.4	949.6	949.9	949.6	949.4	949.2	949.0	948.6	948.1	947.4
142.5°	973.9	973.9	974.0	974.0	974.0	973.9	973.9	973.8	973.7	973.2	972.8
145°	1010.0	1010.4	1010.8	1011.2	1010.8	1010.4	1010.0	1009.7	1009.3	1009.1	1009.0
147.5°	1041.4	1041.6	1041.9	1042.1	1041.9	1041.6	1041.4	1041.3	1041.1	1040.9	1040.7
150°	1061.4	1061.6	1061.8	1061.9	1061.8	1061.6	1061.4	1061.1	1061.0	1061.0	1061.0
152.5°	1079.4	1079.3	1079.1	1079.1	1079.1	1079.3	1079.4	1079.5	1079.4	1079.1	1078.8
155°	1103.8	1103.2	1102.6	1102.1	1102.6	1103.2	1103.8	1104.4	1104.3	1103.5	1102.7
157.5°	1124.4	1123.3	1122.3	1121.2	1122.3	1123.3	1124.4	1125.3	1125.3	1124.4	1123.3
160°	1137.6	1136.5	1135.2	1134.1	1135.2	1136.5	1137.6	1138.8	1138.8	1137.6	1136.5
162.5°	1148.1	1146.7	1145.4	1144.1	1145.4	1146.7	1148.1	1149.4	1149.5	1148.3	1147.1
165°	1163.4	1161.6	1159.8	1158.1	1159.8	1161.6	1163.4	1165.2	1165.3	1163.8	1162.2
167.5°	1174.6	1172.6	1170.5	1168.6	1170.5	1172.6	1174.6	1176.5	1176.6	1174.9	1173.1
170°	1181.0	1179.0	1177.0	1175.0	1177.0	1179.0	1181.0	1182.9	1183.1	1181.5	1180.0
172.5°	1185.0	1182.9	1180.7	1178.6	1180.7	1182.9	1185.0	1187.1	1187.4	1185.8	1184.3
175°	1190.2	1187.8	1185.4	1183.0	1185.4	1187.8	1190.2	1192.5	1192.8	1191.1	1189.3
177.5°	1191.6	1189.7	1187.8	1185.9	1187.8	1189.7	1191.6	1193.5	1193.8	1192.5	1191.2
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1463.5	1466.9	1474.8	1483.6	1491.0	1497.4	1502.4	1509.3	1515.7	1524.6	1532.9
5°	1374.7	1383.3	1395.6	1410.4	1428.9	1441.3	1456.7	1470.3	1490.0	1509.7	1528.7
7.5°	1296.7	1306.3	1324.4	1344.8	1366.8	1387.0	1405.2	1429.1	1455.3	1484.0	1516.1
10°	1246.4	1257.0	1278.5	1301.9	1327.8	1347.6	1372.2	1400.5	1430.1	1465.3	1504.8
12.5°	1201.0	1211.0	1237.1	1261.0	1287.9	1309.6	1338.2	1367.0	1406.5	1444.6	1489.4
15°	1112.7	1139.2	1168.8	1197.1	1229.2	1255.7	1290.2	1319.8	1357.5	1411.0	1462.2
17.5°	1014.5	1042.8	1079.5	1123.3	1166.3	1199.1	1234.1	1270.9	1315.6	1370.4	1429.4
20°	957.3	980.2	1020.8	1069.5	1119.5	1165.1	1197.1	1237.8	1284.1	1343.3	1404.3
22.5°	914.4	933.8	965.6	1014.3	1068.2	1121.1	1162.1	1202.3	1253.5	1312.7	1379.1
25°	850.1	871.0	898.8	932.1	993.7	1049.8	1103.4	1149.7	1203.9	1263.1	1337.0
27.5°	796.6	814.8	840.2	874.9	916.3	978.2	1043.1	1095.9	1151.6	1215.0	1289.1
30°	765.0	779.8	800.8	835.9	875.4	930.9	996.8	1058.5	1114.5	1180.4	1257.6
32.5°	732.0	747.8	768.2	795.9	838.4	884.9	950.9	1018.5	1078.1	1145.5	1221.0
35°	688.0	700.3	718.8	747.2	785.3	826.0	884.6	954.2	1017.2	1089.2	1161.4
37.5°	643.5	658.0	672.5	697.9	729.2	772.9	820.8	892.0	961.6	1027.5	1097.9
40°	618.3	627.0	642.9	663.3	696.6	735.4	780.4	850.1	919.7	985.1	1056.0
42.5°	590.2	599.8	613.3	633.7	663.5	701.4	745.4	805.7	878.3	941.6	1006.1
45°	551.1	556.6	570.2	587.5	612.2	650.3	691.1	744.7	813.1	873.5	930.2
47.5°	511.7	516.5	525.0	540.7	568.4	599.1	637.1	685.3	745.3	805.7	853.6
50°	484.6	488.8	496.9	511.7	536.3	566.5	604.1	647.3	700.9	758.8	798.9
52.5°	457.4	459.8	467.3	484.0	504.7	534.5	568.1	607.8	658.0	706.1	746.6
55°	414.3	419.8	424.7	437.0	456.8	485.2	515.3	552.9	591.8	632.5	667.0
57.5°	369.3	375.3	382.5	393.3	408.9	435.3	462.4	492.9	526.1	559.8	588.8
60°	339.7	345.2	351.3	363.7	377.9	398.9	428.5	455.0	480.2	511.0	540.0
62.5°	310.6	316.1	323.2	333.1	346.8	366.8	391.5	414.5	440.8	467.6	489.2
65°	267.5	271.9	277.4	286.7	299.6	317.4	337.8	355.7	379.2	398.9	418.6
67.5°	220.3	228.5	235.9	243.3	254.3	271.0	285.7	302.8	318.7	333.4	351.3
70°	189.2	198.5	205.3	213.3	223.7	237.9	252.1	263.9	276.8	291.0	307.0
72.5°	163.1	170.4	175.7	184.2	193.7	206.9	220.1	229.8	240.3	250.0	265.6
75°	128.9	131.9	135.6	142.4	151.1	160.9	171.4	180.0	186.2	194.8	205.9
77.5°	92.6	98.5	100.9	105.8	111.9	118.2	125.0	132.3	138.2	141.2	149.8
80°	70.9	73.4	75.8	82.6	86.3	92.5	97.4	104.2	106.6	109.8	117.7
82.5°	55.1	56.6	58.1	59.9	62.2	68.3	73.2	77.6	80.0	81.1	87.2
85°	32.0	32.6	33.3	33.9	34.5	34.5	37.0	40.0	44.4	44.4	46.2
87.5°	15.0	15.2	15.0	14.1	14.8	14.4	14.6	14.2	15.2	16.2	17.3
90°	20.8	19.6	18.0	16.4	14.8	13.3	11.4	9.2	7.0	4.8	2.7
92.5°	20.1	18.9	17.3	15.7	14.1	12.6	11.7	11.6	11.4	11.3	11.2
95°	20.8	19.6	19.4	19.2	19.0	18.8	22.0	28.8	35.5	42.3	49.0
97.5°	23.6	23.5	45.6	67.7	89.7	111.8	120.7	116.5	112.4	108.2	104.0
100°	35.8	39.1	66.4	93.8	121.1	148.4	160.2	156.7	153.1	149.5	146.0
102.5°	152.4	188.7	192.3	195.8	199.4	203.0	203.4	200.8	198.2	195.6	193.0
105°	279.6	277.8	276.8	275.7	274.7	273.8	272.7	271.5	270.3	269.1	268.0
107.5°	347.1	346.3	344.9	343.6	342.2	340.9	339.9	339.3	338.8	338.1	337.5
110°	393.0	392.5	391.4	390.2	389.0	387.8	386.9	386.3	385.8	385.1	384.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	437.4	437.4	436.8	436.3	435.8	435.2	434.4	433.4	432.3	431.2	430.2
115°	502.5	502.0	502.2	502.5	502.7	502.8	502.7	502.0	501.5	500.9	500.2
117.5°	568.9	569.0	568.6	568.1	567.7	567.2	566.7	565.9	565.1	564.3	563.5
120°	609.3	608.9	609.0	609.3	609.5	609.7	609.4	608.6	607.8	607.0	606.2
122.5°	649.7	649.4	649.2	648.9	648.6	648.4	648.0	647.5	647.0	646.6	646.0
125°	705.6	705.0	705.4	705.8	706.2	706.6	706.4	705.6	704.8	704.0	703.2
127.5°	762.2	762.3	761.4	760.5	759.6	758.7	758.1	758.0	757.8	757.5	757.3
130°	796.0	795.9	795.2	794.6	794.1	793.4	793.0	792.8	792.6	792.5	792.3
132.5°	829.5	829.3	828.5	827.8	827.1	826.3	825.7	825.4	825.0	824.7	824.3
135°	875.4	875.0	874.2	873.4	872.6	871.8	871.6	871.7	872.0	872.2	872.4
137.5°	919.6	919.2	918.3	917.5	916.6	915.7	915.3	915.2	915.1	915.0	914.9
140°	946.8	946.3	945.8	945.5	945.0	944.7	944.2	943.9	943.5	943.1	942.7
142.5°	972.3	971.9	971.6	971.4	971.2	970.9	970.4	969.7	969.0	968.3	967.6
145°	1008.8	1008.5	1008.5	1008.5	1008.5	1008.5	1008.3	1007.6	1007.1	1006.5	1005.8
147.5°	1040.6	1040.4	1040.6	1040.8	1041.0	1041.3	1040.8	1039.6	1038.6	1037.4	1036.3
150°	1061.0	1061.0	1061.3	1061.5	1061.7	1061.8	1061.6	1060.8	1060.0	1059.2	1058.4
152.5°	1078.5	1078.2	1078.5	1078.9	1079.2	1079.6	1079.4	1078.8	1078.2	1077.5	1076.9
155°	1101.9	1101.2	1101.7	1102.3	1103.0	1103.5	1103.7	1103.5	1103.3	1103.1	1103.0
157.5°	1122.3	1121.2	1122.0	1122.6	1123.3	1123.9	1124.4	1124.4	1124.5	1124.7	1124.8
160°	1135.2	1134.1	1134.3	1134.4	1134.7	1134.9	1135.2	1135.9	1136.5	1137.0	1137.6
162.5°	1145.9	1144.8	1145.0	1145.1	1145.3	1145.6	1146.0	1146.7	1147.5	1148.3	1149.1
165°	1160.6	1159.0	1159.0	1159.0	1159.0	1159.0	1159.5	1160.5	1161.5	1162.4	1163.4
167.5°	1171.4	1169.7	1169.8	1169.9	1170.0	1170.2	1170.7	1171.8	1172.8	1173.8	1174.8
170°	1178.4	1176.8	1176.6	1176.4	1176.2	1176.0	1176.5	1177.7	1178.8	1180.1	1181.2
172.5°	1182.7	1181.1	1180.9	1180.7	1180.4	1180.3	1180.8	1182.0	1183.1	1184.4	1185.5
175°	1187.5	1185.7	1185.5	1185.4	1185.1	1184.9	1185.4	1186.6	1187.8	1189.0	1190.2
177.5°	1190.0	1188.7	1188.4	1188.1	1187.8	1187.5	1187.8	1189.0	1190.1	1191.1	1192.3
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1539.4	1543.8	1548.7	1558.1	1566.0	1569.5	1576.4	1581.3	1579.8	1586.7	1598.6
5°	1545.4	1562.1	1581.2	1600.9	1623.1	1641.6	1656.4	1671.2	1682.9	1697.1	1718.1
7.5°	1544.4	1574.0	1606.2	1641.6	1677.9	1709.4	1738.5	1768.1	1794.3	1823.1	1860.6
10°	1540.5	1579.9	1620.0	1666.3	1712.4	1756.2	1795.7	1832.6	1867.9	1905.4	1952.9
12.5°	1536.1	1581.4	1629.9	1685.5	1743.0	1795.7	1842.1	1895.3	1939.3	1987.8	2042.6
15°	1516.4	1577.4	1643.4	1715.6	1784.6	1855.5	1919.0	1984.3	2045.3	2103.3	2172.4
17.5°	1494.0	1564.4	1642.2	1727.4	1810.4	1896.6	1971.8	2054.2	2116.7	2194.4	2258.5
20°	1475.8	1551.6	1634.8	1730.4	1824.7	1920.2	2003.4	2087.3	2157.6	2235.9	2317.2
22.5°	1453.6	1536.8	1626.9	1725.9	1824.7	1929.1	2021.2	2104.5	2191.6	2279.7	2363.6
25°	1417.8	1504.1	1599.6	1708.2	1821.6	1928.2	2026.9	2130.4	2224.1	2319.7	2394.9
27.5°	1373.9	1464.5	1565.3	1677.2	1793.6	1902.8	2019.0	2129.3	2223.7	2315.6	2381.2
30°	1338.9	1434.5	1531.2	1644.7	1765.5	1882.6	2007.2	2117.5	2216.7	2299.4	2336.3
32.5°	1302.9	1393.6	1493.3	1608.2	1732.0	1858.0	1981.5	2094.3	2186.1	2235.7	2236.7
35°	1240.3	1325.3	1428.9	1541.8	1668.7	1805.5	1930.7	2041.7	2097.7	2102.0	2041.7
37.5°	1172.0	1250.0	1347.8	1460.7	1599.8	1735.9	1863.8	1937.7	1956.5	1893.7	1782.0
40°	1123.2	1195.2	1289.6	1405.5	1543.6	1684.1	1800.6	1854.8	1835.1	1733.4	1608.9
42.5°	1071.8	1139.1	1229.9	1344.3	1482.9	1625.0	1724.2	1753.3	1701.0	1583.5	1437.8
45°	988.2	1049.8	1139.8	1255.1	1388.2	1521.3	1596.6	1581.8	1494.9	1355.6	1192.2
47.5°	901.0	960.6	1041.5	1148.2	1284.5	1399.5	1450.4	1405.8	1282.1	1128.8	996.0
50°	843.3	904.3	978.9	1080.7	1205.1	1316.1	1348.8	1280.9	1143.5	996.1	874.1
52.5°	786.6	838.7	911.9	1010.1	1129.2	1222.9	1240.3	1162.1	1020.2	888.1	779.9
55°	700.3	747.8	809.4	901.9	1004.8	1084.3	1075.0	974.6	845.8	733.0	647.9
57.5°	616.8	652.6	709.5	796.2	886.5	940.0	906.2	820.5	700.4	608.1	536.3
60°	561.6	594.9	647.9	723.7	803.3	833.4	805.0	712.0	617.1	532.6	472.2
62.5°	509.3	538.7	584.2	654.7	718.9	736.7	706.4	625.2	539.7	467.5	417.5
65°	433.4	460.5	499.4	549.3	593.6	602.3	582.6	499.4	434.6	374.2	339.7
67.5°	364.4	382.2	412.5	455.7	479.2	484.3	446.2	393.9	336.8	299.7	273.7
70°	318.1	330.4	358.7	382.2	401.3	401.9	366.8	324.9	281.1	250.9	231.8
72.5°	273.2	285.1	306.5	322.5	337.2	332.4	300.2	267.2	231.8	209.0	194.8
75°	210.8	221.3	232.4	239.8	239.8	233.6	210.2	185.6	165.2	151.7	147.3
77.5°	153.3	161.8	165.6	164.4	162.3	152.7	137.9	121.7	114.4	108.0	104.8
80°	120.2	123.9	125.1	122.1	118.3	107.3	97.4	90.6	83.8	81.4	80.2
82.5°	89.2	92.4	89.2	90.0	81.9	72.8	67.3	65.0	62.2	61.2	59.9
85°	47.4	46.8	45.7	42.5	37.0	35.8	35.1	34.5	33.3	33.9	32.6
87.5°	17.2	16.2	14.6	14.6	15.0	14.3	15.2	15.4	15.8	15.5	16.8
90°	4.8	7.0	9.2	11.4	13.3	14.8	16.4	18.0	19.6	20.8	21.9
92.5°	11.3	11.4	11.6	11.7	12.6	14.1	15.7	17.3	18.9	20.1	21.2
95°	42.3	35.5	28.8	22.0	18.8	19.0	19.2	19.4	19.6	20.8	21.9
97.5°	108.2	112.4	116.5	120.7	111.8	89.7	67.7	45.6	23.5	23.6	23.7
100°	149.5	153.1	156.7	160.2	148.4	121.1	93.8	66.4	39.1	35.8	32.5
102.5°	195.6	198.2	200.8	203.4	203.0	199.4	195.8	192.3	188.7	152.4	116.2
105°	269.1	270.3	271.5	272.7	273.8	274.7	275.7	276.8	277.8	279.6	281.3
107.5°	338.1	338.8	339.3	339.9	340.9	342.2	343.6	344.9	346.3	347.1	348.0
110°	385.1	385.8	386.3	386.9	387.8	389.0	390.2	391.4	392.5	393.0	393.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	431.2	432.3	433.4	434.4	435.2	435.8	436.3	436.8	437.4	437.4	437.3
115°	500.9	501.5	502.0	502.7	502.8	502.7	502.5	502.2	502.0	502.5	502.8
117.5°	564.3	565.1	565.9	566.7	567.2	567.7	568.1	568.6	569.0	568.9	568.8
120°	607.0	607.8	608.6	609.4	609.7	609.5	609.3	609.0	608.9	609.3	609.7
122.5°	646.6	647.0	647.5	648.0	648.4	648.6	648.9	649.2	649.4	649.7	650.0
125°	704.0	704.8	705.6	706.4	706.6	706.2	705.8	705.4	705.0	705.6	706.2
127.5°	757.5	757.8	758.0	758.1	758.7	759.6	760.5	761.4	762.3	762.2	762.1
130°	792.5	792.6	792.8	793.0	793.4	794.1	794.6	795.2	795.9	796.0	796.2
132.5°	824.7	825.0	825.4	825.7	826.3	827.1	827.8	828.5	829.3	829.5	829.6
135°	872.2	872.0	871.7	871.6	871.8	872.6	873.4	874.2	875.0	875.4	875.8
137.5°	915.0	915.1	915.2	915.3	915.7	916.6	917.5	918.3	919.2	919.6	920.1
140°	943.1	943.5	943.9	944.2	944.7	945.0	945.5	945.8	946.3	946.8	947.4
142.5°	968.3	969.0	969.7	970.4	970.9	971.2	971.4	971.6	971.9	972.3	972.8
145°	1006.5	1007.1	1007.6	1008.3	1008.5	1008.5	1008.5	1008.5	1008.5	1008.8	1009.0
147.5°	1037.4	1038.6	1039.6	1040.8	1041.3	1041.0	1040.8	1040.6	1040.4	1040.6	1040.7
150°	1059.2	1060.0	1060.8	1061.6	1061.8	1061.7	1061.5	1061.3	1061.0	1061.0	1061.0
152.5°	1077.5	1078.2	1078.8	1079.4	1079.6	1079.2	1078.9	1078.5	1078.2	1078.5	1078.8
155°	1103.1	1103.3	1103.5	1103.7	1103.5	1103.0	1102.3	1101.7	1101.2	1101.9	1102.7
157.5°	1124.7	1124.5	1124.4	1124.4	1123.9	1123.3	1122.6	1122.0	1121.2	1122.3	1123.3
160°	1137.0	1136.5	1135.9	1135.2	1134.9	1134.7	1134.4	1134.3	1134.1	1135.2	1136.5
162.5°	1148.3	1147.5	1146.7	1146.0	1145.6	1145.3	1145.1	1145.0	1144.8	1145.9	1147.1
165°	1162.4	1161.5	1160.5	1159.5	1159.0	1159.0	1159.0	1159.0	1159.0	1160.6	1162.2
167.5°	1173.8	1172.8	1171.8	1170.7	1170.2	1170.0	1169.9	1169.8	1169.7	1171.4	1173.1
170°	1180.1	1178.8	1177.7	1176.5	1176.0	1176.2	1176.4	1176.6	1176.8	1178.4	1180.0
172.5°	1184.4	1183.1	1182.0	1180.8	1180.3	1180.4	1180.7	1180.9	1181.1	1182.7	1184.3
175°	1189.0	1187.8	1186.6	1185.4	1184.9	1185.1	1185.4	1185.5	1185.7	1187.5	1189.3
177.5°	1191.1	1190.1	1189.0	1187.8	1187.5	1187.8	1188.1	1188.4	1188.7	1190.0	1191.2
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1605.0	1607.0	1608.5	1613.4	1613.8	1618.3	1613.8
5°	1737.8	1746.4	1760.0	1773.5	1774.8	1783.3	1768.0
7.5°	1886.7	1906.7	1919.1	1941.1	1949.7	1955.1	1946.2
10°	1989.2	2007.8	2040.4	2056.5	2072.5	2074.9	2067.5
12.5°	2088.4	2117.7	2143.5	2173.8	2173.1	2194.8	2186.9
15°	2220.4	2250.7	2286.3	2320.3	2332.6	2332.6	2342.5
17.5°	2314.6	2370.0	2407.0	2433.6	2462.7	2467.7	2464.3
20°	2378.3	2438.0	2477.5	2512.0	2531.7	2537.3	2537.3
22.5°	2425.5	2476.5	2515.0	2546.0	2562.3	2568.8	2566.9
25°	2458.4	2502.1	2525.6	2534.8	2539.1	2537.9	2526.2
27.5°	2413.5	2411.5	2396.7	2368.4	2347.1	2334.1	2319.3
30°	2327.7	2295.6	2258.6	2218.0	2165.6	2125.5	2113.2
32.5°	2199.9	2128.0	2065.3	1997.5	1941.2	1901.1	1884.4
35°	1952.9	1838.9	1745.8	1664.4	1605.3	1568.3	1555.9
37.5°	1659.7	1549.3	1434.1	1355.2	1306.1	1268.7	1254.8
40°	1473.3	1353.1	1252.6	1178.7	1128.1	1091.7	1091.1
42.5°	1303.1	1188.4	1093.9	1040.5	986.1	962.0	961.9
45°	1067.0	975.2	895.1	853.2	820.5	800.8	795.2
47.5°	883.5	807.5	754.1	720.8	694.1	681.5	673.4
50°	780.4	713.8	671.3	642.3	627.5	611.5	610.3
52.5°	694.6	640.9	607.7	584.2	565.4	555.8	556.1
55°	583.8	541.3	517.8	499.9	485.2	477.8	474.7
57.5°	491.8	459.9	442.8	426.4	420.2	414.4	412.8
60°	434.6	413.0	397.0	384.1	374.8	372.9	372.3
62.5°	387.3	364.7	353.6	343.6	336.8	333.9	332.9
65°	319.3	302.6	292.8	284.8	282.3	278.0	277.4
67.5°	257.4	247.4	240.9	235.3	232.0	231.8	231.8
70°	219.5	213.9	208.4	205.3	203.4	202.2	202.2
72.5°	186.9	182.8	178.3	176.6	176.3	175.0	174.6
75°	142.4	138.1	138.7	135.6	133.1	130.1	128.2
77.5°	100.9	97.9	97.3	96.9	94.8	94.4	95.4
80°	78.3	75.2	74.5	75.2	74.5	72.8	72.8
82.5°	59.6	57.0	56.4	56.0	55.4	56.0	55.0
85°	32.0	30.9	30.9	30.9	32.0	31.5	30.9
87.5°	16.0	15.7	16.4	16.0	16.1	15.6	16.2
90°	23.2	24.3	25.1	25.5	25.9	26.3	26.7
92.5°	22.5	23.6	24.3	24.3	24.4	24.5	24.6
95°	23.2	24.3	25.1	25.2	25.4	25.6	25.8
97.5°	23.9	24.0	24.2	24.3	24.5	24.7	25.0
100°	29.1	25.7	24.2	24.3	24.5	24.7	25.0
102.5°	79.9	43.6	25.5	25.5	25.6	25.6	25.7
105°	283.0	284.8	282.2	275.1	268.0	260.8	253.7
107.5°	348.9	349.7	350.5	351.3	352.0	352.8	353.6
110°	393.8	394.1	394.7	395.2	395.8	396.5	397.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	437.2	437.1	437.5	438.2	439.0	439.7	440.4
115°	503.3	503.6	503.8	503.8	503.8	503.8	503.8
117.5°	568.7	568.6	568.6	568.6	568.5	568.4	568.3
120°	610.0	610.5	610.5	610.0	609.7	609.3	608.9
122.5°	650.1	650.4	650.3	650.0	649.5	649.2	648.7
125°	706.8	707.4	707.8	708.0	708.2	708.4	708.6
127.5°	762.0	761.9	761.7	761.6	761.4	761.3	761.1
130°	796.4	796.6	796.7	796.7	796.7	796.7	796.7
132.5°	829.9	830.1	830.1	829.9	829.7	829.6	829.5
135°	876.2	876.6	877.0	877.4	877.8	878.2	878.6
137.5°	920.5	921.0	921.0	921.0	920.9	920.7	920.6
140°	948.1	948.6	949.0	949.2	949.4	949.6	949.9
142.5°	973.2	973.7	973.8	973.9	973.9	974.0	974.0
145°	1009.1	1009.3	1009.7	1010.0	1010.4	1010.8	1011.2
147.5°	1040.9	1041.1	1041.3	1041.4	1041.6	1041.9	1042.1
150°	1061.0	1061.0	1061.1	1061.4	1061.6	1061.8	1061.9
152.5°	1079.1	1079.4	1079.5	1079.4	1079.3	1079.1	1079.1
155°	1103.5	1104.3	1104.4	1103.8	1103.2	1102.6	1102.1
157.5°	1124.4	1125.3	1125.3	1124.4	1123.3	1122.3	1121.2
160°	1137.6	1138.8	1138.8	1137.6	1136.5	1135.2	1134.1
162.5°	1148.3	1149.5	1149.4	1148.1	1146.7	1145.4	1144.1
165°	1163.8	1165.3	1165.2	1163.4	1161.6	1159.8	1158.1
167.5°	1174.9	1176.6	1176.5	1174.6	1172.6	1170.5	1168.6
170°	1181.5	1183.1	1182.9	1181.0	1179.0	1177.0	1175.0
172.5°	1185.8	1187.4	1187.1	1185.0	1182.9	1180.7	1178.6
175°	1191.1	1192.8	1192.5	1190.2	1187.8	1185.4	1183.0
177.5°	1192.5	1193.8	1193.5	1191.6	1189.7	1187.8	1185.9
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2

(END OF REPORT)