

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: P331857-940

Luminaire Tested: **S122RDIW-S1005D1240U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331857-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D1240U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

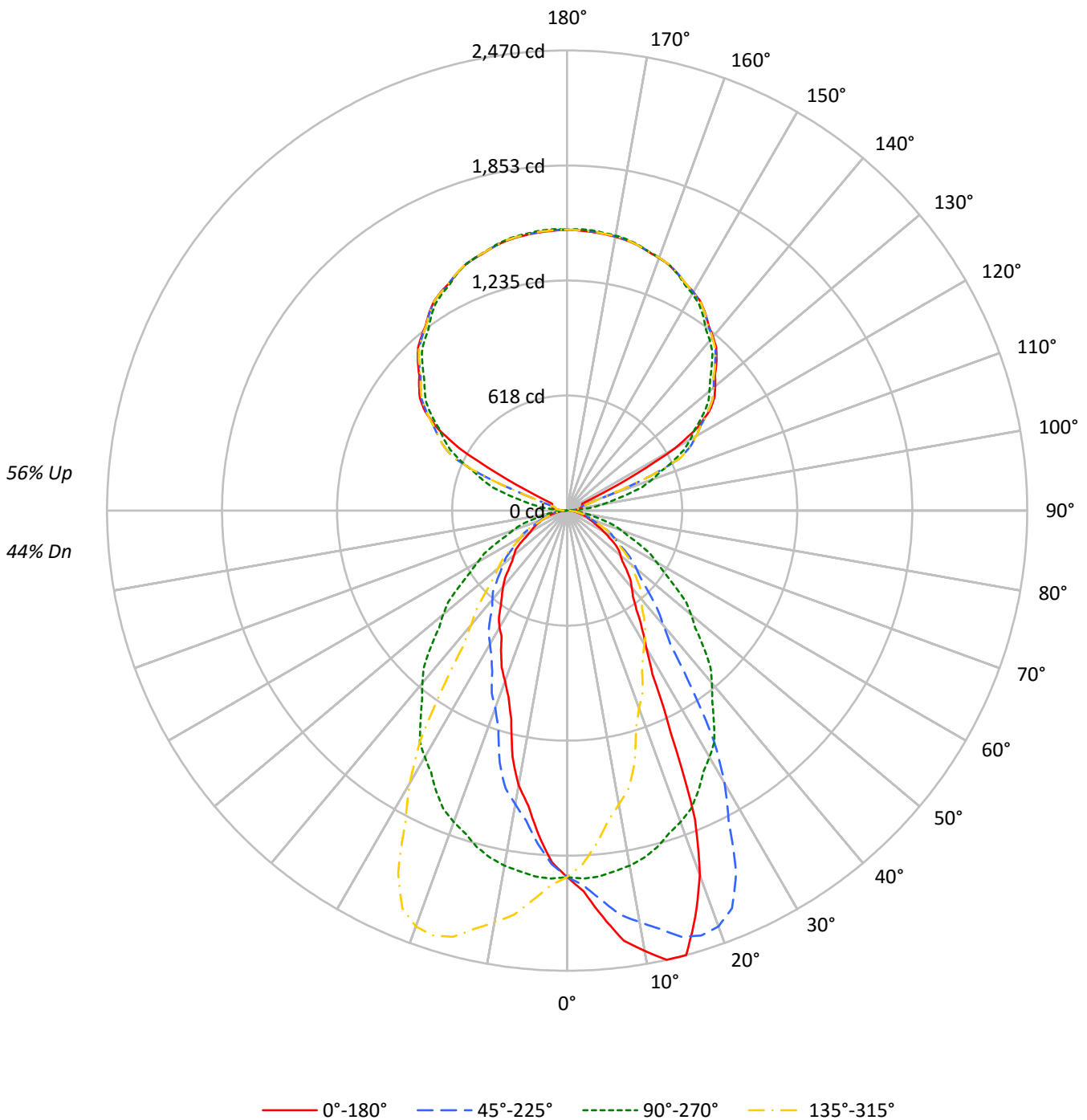
Lumens per Lamp: N/A  
Luminaire Lumens: 7820.2 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 76.2  
Input Voltage (V): 120  
Input Current (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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	45	44	44	38
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33
3	82	73	66	60	74	67	61	56	56	52	48	46	43	41	37	35	33	29
4	75	65	57	52	68	60	53	48	50	46	42	42	38	35	33	31	29	25
5	69	58	51	45	63	54	47	42	45	40	37	38	34	31	30	28	26	23
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20
7	59	48	40	35	54	44	38	33	38	33	29	32	28	25	26	23	21	18
8	55	43	36	31	51	40	34	29	35	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	25	21	25	21	19	21	18	16	14

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

	0°	90°	180°	270°
0°	31752	31752	31752	31752
5°	35462	31951	28329	31951
10°	39346	31727	24556	31727
15°	41279	31263	19348	31263
20°	35787	30574	16744	30574
25°	23469	29630	14949	29630
30°	15797	28486	13530	28486
35°	12796	27045	12203	27045
40°	11377	25478	11291	25478
45°	10298	23640	10079	23640
50°	9372	21815	9339	21815
55°	8811	19792	8695	19792
60°	7369	17938	7282	17938
65°	6212	16290	7049	16290
70°	5740	14549	6647	14549
75°	5371	12664	6138	12664
80°	4956	10423	5467	10423
85°	4557	8225	4798	8225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.4	2.4
10°-20°	519.5	6.6
20°-30°	669.4	8.6
30°-40°	636.1	8.1
40°-50°	544.9	7.0
50°-60°	415.0	5.3
60°-70°	262.3	3.4
70°-80°	131.0	1.7
80°-90°	37.8	0.5
90°-100°	50.3	0.6
100°-110°	184.4	2.4
110°-120°	492.9	6.3
120°-130°	813.7	10.4
130°-140°	865.3	11.1
140°-150°	804.3	10.3
150°-160°	646.7	8.3
160°-170°	416.7	5.3
170°-180°	143.4	1.8
0°-30°	1375.3	17.6
0°-40°	2011.4	25.7
0°-60°	2971.3	38.0
0°-90°	3402.5	43.5
90°-120°	727.6	9.3
90°-150°	3210.9	41.1
90°-180°	4418.0	56.5
0°-180°	7820.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1967	1967	1967	1967	1967	
5°	2188	1971	1748	1971	2188	216
15°	2470	1870	1158	1870	2470	666
25°	1317	1663	839	1663	1317	625
35°	649	1372	619	1372	649	415
45°	451	1035	441	1035	451	349
55°	313	703	309	703	313	275
65°	163	426	184	426	163	166
75°	86	203	98	203	86	91
85°	25	44	26	44	25	27
90°	29	1	29	1	29	14
95°	47	71	47	71	47	44
105°	83	332	83	332	83	86
115°	89	627	89	627	89	224
125°	933	887	933	887	933	807
135°	1133	1097	1133	1097	1133	874
145°	1293	1273	1293	1273	1293	808
155°	1403	1402	1403	1402	1403	647
165°	1474	1477	1474	1477	1474	416
175°	1502	1511	1502	1511	1502	143
180°	1507	1507	1507	1507	1507	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2046.4	2048.1	2049.7	2045.9	2045.9	2042.6	2035.5	2030.0	2014.7	2012.5	2012.5
5°	2188.0	2186.7	2189.3	2180.5	2168.2	2165.4	2152.5	2135.4	2117.6	2097.8	2093.7
7.5°	2328.8	2326.7	2321.2	2319.8	2310.3	2289.6	2268.8	2246.5	2217.0	2188.2	2173.6
10°	2399.9	2422.4	2408.7	2384.8	2389.6	2357.5	2340.4	2311.0	2286.4	2243.4	2233.8
12.5°	2469.8	2478.7	2474.3	2460.8	2454.6	2432.3	2409.2	2383.7	2338.3	2299.6	2266.0
15°	2469.5	2482.5	2485.9	2481.8	2485.3	2483.9	2471.6	2450.4	2410.7	2368.4	2331.5
17.5°	2287.2	2296.2	2318.6	2333.8	2353.0	2393.4	2413.3	2421.2	2415.3	2391.1	2365.1
20°	2082.8	2067.7	2130.6	2162.8	2190.0	2258.3	2317.1	2339.7	2375.9	2375.3	2368.4
22.5°	1793.1	1796.6	1856.2	1894.4	1974.2	2042.5	2109.4	2194.3	2264.4	2310.7	2337.8
25°	1317.4	1343.5	1402.8	1454.8	1543.6	1670.7	1786.2	1920.1	2046.6	2146.3	2241.3
27.5°	989.4	991.4	1038.5	1086.5	1139.2	1243.4	1388.8	1548.7	1728.9	1877.7	2048.7
30°	847.3	843.2	863.0	892.4	937.5	1018.2	1127.5	1284.7	1464.4	1688.5	1888.0
32.5°	746.7	747.0	761.9	783.6	821.1	875.5	950.4	1078.0	1247.9	1468.2	1702.2
35°	649.2	648.5	659.4	675.1	690.8	725.7	776.9	843.9	960.7	1166.4	1405.6
37.5°	579.2	582.2	587.5	597.4	614.7	634.1	664.9	709.8	793.1	914.7	1115.7
40°	539.8	541.2	548.7	556.9	567.1	582.2	607.4	643.7	704.5	801.6	948.4
42.5°	503.7	505.2	510.4	518.1	526.2	541.2	562.1	593.4	642.7	718.5	839.6
45°	451.0	451.0	455.8	459.2	468.1	481.7	498.8	524.8	558.9	615.0	695.6
47.5°	401.5	401.6	404.8	410.7	416.3	427.0	443.7	464.9	489.8	533.2	602.0
50°	373.1	373.8	375.9	380.6	384.1	393.6	406.6	425.0	451.0	484.5	541.9
52.5°	350.2	349.7	352.3	354.4	356.7	363.6	373.3	389.5	412.7	441.8	489.4
55°	313.0	310.2	314.3	317.7	319.8	322.5	328.0	338.2	358.0	382.6	418.2
57.5°	266.5	265.4	268.3	271.4	277.9	285.3	289.9	296.4	306.7	324.3	359.5
60°	228.2	228.2	234.3	236.4	244.0	253.5	263.1	268.6	278.8	290.4	316.4
62.5°	194.3	194.9	197.8	199.8	204.0	215.8	229.2	241.2	250.9	262.0	279.2
65°	162.6	164.0	164.0	165.3	168.1	170.9	176.3	185.8	203.0	218.6	231.7
67.5°	138.0	138.5	138.8	140.2	140.9	143.9	146.1	150.3	154.3	169.2	185.3
70°	121.6	123.7	123.0	124.4	125.0	126.4	129.1	131.2	137.3	140.8	150.3
72.5°	106.3	107.8	107.7	108.5	110.3	110.6	112.7	114.8	118.8	121.6	126.8
75°	86.1	85.4	86.1	87.5	88.2	88.8	88.8	91.6	93.6	96.3	99.8
77.5°	66.4	67.1	67.0	67.1	67.2	68.5	68.3	69.6	71.6	72.9	74.6
80°	53.3	53.9	53.3	53.9	54.7	55.4	54.7	55.4	57.4	58.8	58.8
82.5°	41.3	41.4	41.8	42.0	42.1	42.3	43.2	43.3	44.9	44.6	45.1
85°	24.6	23.9	23.9	23.9	24.6	25.3	24.6	24.6	25.3	25.3	25.3
87.5°	14.6	15.1	15.0	14.9	14.8	14.6	14.4	14.7	13.9	14.2	13.3
90°	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3	23.0	21.8	19.9
92.5°	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6	25.9	25.3	24.3
95°	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9	43.8	42.5	40.8
97.5°	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9	57.9	57.0	53.1
100°	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1	64.1	62.2	58.1
102.5°	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9	66.4	63.9	98.4
105°	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9	69.2	66.5	132.7
107.5°	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7	90.4	93.2	172.5
110°	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4	166.7	190.9	260.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6	393.1	481.4	498.8
115°	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5	560.8	673.1	667.0
117.5°	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2	718.3	745.5	741.3
120°	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4	802.5	799.5	795.2
122.5°	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5	852.7	851.0	846.3
125°	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1	923.5	921.8	917.1
127.5°	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3	987.9	985.4	982.0
130°	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8	1029.1	1026.4	1023.8
132.5°	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0	1069.7	1067.5	1064.8
135°	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4	1127.0	1124.6	1122.4
137.5°	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8	1180.4	1178.0	1175.5
140°	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4	1215.1	1213.0	1210.3
142.5°	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2	1247.2	1245.3	1242.2
145°	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8	1292.1	1290.4	1286.3
147.5°	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7	1331.4	1330.1	1326.1
150°	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6	1355.1	1353.7	1349.8
152.5°	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4	1377.0	1375.5	1371.8
155°	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8	1406.4	1405.0	1402.0
157.5°	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7	1431.0	1429.4	1427.4
160°	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2	1445.6	1444.2	1442.8
162.5°	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6	1458.9	1457.3	1456.1
165°	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6	1472.9
167.5°	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8	1489.1	1487.4	1486.7
170°	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8	1496.1	1494.4	1493.9
172.5°	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0	1501.3	1499.6	1499.1
175°	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7	1507.0	1505.3	1504.9
177.5°	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3	1508.0	1506.6	1506.4
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2013.7	2009.2	2005.5	1995.6	1990.7	1979.7	1978.1	1977.5	1963.4	1949.6	1945.8
5°	2082.8	2071.8	2055.5	2036.3	2016.5	1996.0	1982.4	1971.4	1944.0	1918.1	1903.1
7.5°	2152.5	2129.0	2100.7	2064.5	2034.3	2000.4	1975.2	1952.7	1913.9	1876.7	1851.6
10°	2204.4	2166.1	2128.5	2078.7	2039.7	2001.4	1966.0	1935.2	1891.4	1842.3	1807.4
12.5°	2236.7	2194.6	2142.8	2094.0	2043.5	1994.9	1947.3	1907.8	1856.5	1805.6	1764.2
15°	2280.3	2235.2	2172.3	2102.6	2037.6	1974.2	1919.5	1870.3	1803.3	1742.5	1691.9
17.5°	2316.0	2253.9	2186.4	2105.8	2030.6	1949.8	1879.5	1816.6	1742.0	1668.7	1609.1
20°	2327.4	2265.9	2188.0	2107.4	2018.6	1923.6	1847.7	1779.4	1699.4	1619.4	1551.1
22.5°	2320.3	2272.4	2185.9	2089.4	1998.3	1899.0	1813.3	1734.0	1645.3	1563.7	1484.4
25°	2272.1	2255.7	2173.6	2068.4	1964.5	1849.1	1750.0	1663.2	1562.1	1474.6	1388.5
27.5°	2159.5	2194.9	2144.1	2032.0	1916.6	1792.8	1681.4	1582.6	1477.7	1379.2	1293.4
30°	2051.4	2132.6	2110.8	2006.9	1877.8	1756.1	1631.1	1527.9	1415.9	1314.7	1230.0
32.5°	1903.2	2037.6	2058.9	1971.9	1838.4	1704.8	1573.7	1471.1	1354.1	1247.5	1164.9
35°	1667.3	1868.2	1960.4	1905.1	1771.2	1627.0	1491.7	1372.1	1254.5	1149.3	1067.4
37.5°	1385.9	1659.6	1813.3	1817.2	1694.3	1544.4	1397.0	1278.3	1158.0	1054.6	966.0
40°	1203.4	1499.9	1700.1	1744.5	1640.7	1478.7	1329.7	1208.8	1091.3	990.2	888.3
42.5°	1039.4	1334.8	1580.9	1658.1	1575.7	1414.8	1265.2	1138.8	1024.6	928.9	824.9
45°	840.5	1098.8	1370.0	1508.1	1462.3	1313.3	1155.5	1035.3	927.9	845.3	745.5
47.5°	709.0	891.1	1153.6	1340.2	1339.4	1203.5	1048.2	933.0	833.5	756.0	675.3
50°	634.1	792.6	1014.8	1226.5	1244.3	1130.2	982.6	868.5	775.6	694.3	629.4
52.5°	566.9	697.5	897.2	1100.3	1150.8	1052.0	908.8	803.4	713.3	638.5	582.9
55°	479.0	580.1	731.8	921.8	998.4	928.6	801.6	703.1	630.0	567.1	519.3
57.5°	405.2	481.1	602.8	755.7	844.9	801.0	696.2	616.3	553.7	496.8	459.1
60°	358.7	420.9	524.1	651.9	750.3	719.5	630.0	555.5	502.2	453.1	417.5
62.5°	315.0	368.5	456.9	560.6	650.8	638.1	565.0	502.5	455.8	411.0	380.8
65°	253.5	292.5	361.5	442.8	515.2	521.4	468.8	426.4	384.7	349.2	322.5
67.5°	201.9	227.3	275.9	344.4	398.7	418.0	385.9	353.6	320.5	293.0	269.9
70°	170.1	190.6	226.1	281.5	331.4	351.9	333.5	308.2	279.5	256.9	237.1
72.5°	137.9	157.8	184.0	224.7	267.4	289.6	283.2	265.0	241.7	223.0	204.3
75°	103.9	110.0	127.8	155.2	188.6	207.8	212.5	203.0	184.5	170.1	159.2
77.5°	76.8	80.5	89.0	103.3	125.2	142.2	149.3	148.1	135.5	127.1	116.8
80°	61.5	63.6	67.7	73.8	90.2	107.3	112.1	112.1	103.2	99.8	89.5
82.5°	46.7	48.2	50.7	54.1	61.8	76.7	82.0	83.1	77.5	72.9	64.9
85°	26.7	25.9	27.4	29.4	30.8	34.9	43.1	44.4	43.1	37.5	35.5
87.5°	12.8	13.0	12.7	11.7	11.7	11.7	13.9	16.1	14.4	13.3	12.8
90°	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1	3.7	6.4	9.1
92.5°	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0	21.8	21.6	21.3
95°	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9	62.9	54.9	46.9
97.5°	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7	118.2	95.6	73.1
100°	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1	159.9	126.6	93.5
102.5°	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7	243.6	236.6	229.6
105°	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6	338.9	346.2	353.4
107.5°	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9	429.7	435.6	441.5
110°	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2	488.3	493.4	498.5





TEST NUMBER: P331857-940

CATALOG NUMBER: S122RDIW-S1005D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0	543.6	548.0	552.6
115°	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2	631.3	635.4	639.5
117.5°	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0	710.6	715.2	719.8
120°	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6	767.2	770.8	774.5
122.5°	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4	816.3	820.1	823.9
125°	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8	889.9	893.1	896.3
127.5°	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2	957.7	961.2	964.7
130°	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0	1000.9	1004.8	1008.6
132.5°	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6	1043.9	1047.2	1050.5
135°	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3	1101.2	1105.1	1108.9
137.5°	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7	1157.4	1160.1	1162.9
140°	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2	1194.2	1196.1	1198.0
142.5°	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7	1225.4	1227.2	1228.9
145°	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9	1272.7	1272.5	1272.2
147.5°	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9	1315.0	1314.1	1313.1
150°	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9	1342.2	1340.5	1338.7
152.5°	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4	1365.6	1363.6	1361.7
155°	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7	1399.5	1397.3	1395.1
157.5°	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5	1426.6	1424.8	1423.0
160°	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1442.8	1441.3	1439.8
162.5°	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2	1456.7	1455.3	1453.8
165°	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9	1475.5	1474.0	1472.6
167.5°	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9	1489.4	1488.0	1486.6
170°	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8	1497.3	1495.8	1494.4
172.5°	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0	1502.5	1501.1	1499.6
175°	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7	1509.0	1507.3	1505.7
177.5°	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8	1510.5	1509.1	1507.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



TEST NUMBER: P331857-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1938.8	1934.9	1927.8	1916.8	1910.3	1898.8	1891.1	1895.5	1896.7	1895.5	1894.4
5°	1886.7	1872.3	1852.5	1833.4	1815.6	1796.4	1785.6	1780.7	1771.2	1765.7	1763.0
7.5°	1823.6	1798.9	1770.9	1737.6	1709.2	1679.6	1664.5	1656.9	1637.4	1626.7	1617.4
10°	1776.6	1737.7	1709.7	1666.0	1639.3	1600.4	1573.7	1574.4	1547.7	1532.7	1521.8
12.5°	1724.7	1681.9	1635.3	1596.0	1559.0	1527.7	1495.5	1482.6	1454.3	1439.8	1410.2
15°	1638.6	1588.8	1539.5	1486.2	1448.7	1400.2	1353.7	1297.0	1251.2	1211.6	1200.6
17.5°	1544.6	1482.8	1433.5	1370.9	1306.5	1224.9	1171.1	1138.2	1110.5	1089.7	1074.1
20°	1480.1	1417.2	1364.6	1270.3	1183.5	1128.2	1088.5	1063.3	1034.6	1012.0	999.7
22.5°	1412.3	1346.7	1275.0	1169.7	1102.1	1057.7	1022.3	993.3	973.8	956.3	945.0
25°	1316.1	1244.3	1126.1	1053.6	999.0	952.5	927.9	910.2	889.7	865.8	854.9
27.5°	1214.4	1100.3	1015.4	961.5	909.4	879.1	857.0	830.5	812.2	801.4	790.1
30°	1138.4	1024.3	958.1	899.3	862.4	828.8	802.9	787.9	770.1	751.6	744.1
32.5°	1053.6	962.5	899.0	850.1	812.6	784.1	763.6	739.2	726.4	715.1	699.3
35°	948.4	879.4	821.4	781.8	746.2	723.0	699.0	684.7	661.5	651.9	645.8
37.5°	859.3	799.5	756.2	714.3	686.2	660.5	645.9	623.0	613.0	599.7	586.7
40°	809.0	750.3	708.6	674.4	643.0	623.8	605.4	587.0	571.9	565.8	550.1
42.5°	757.7	709.8	668.2	630.7	609.7	589.4	566.1	552.5	537.0	527.0	517.3
45°	686.7	644.4	608.9	578.1	554.8	533.7	518.6	496.1	487.2	467.4	459.2
47.5°	624.5	585.1	551.2	521.9	499.3	485.4	463.4	445.8	431.6	419.5	408.9
50°	580.1	547.3	514.5	488.6	468.1	448.3	425.7	416.8	394.9	388.8	382.6
52.5°	539.7	508.5	478.5	453.1	432.6	413.3	393.4	381.8	367.1	361.0	356.4
55°	483.1	453.1	424.4	401.8	381.3	361.5	349.2	334.8	328.0	323.2	317.7
57.5°	426.2	399.2	377.2	354.4	333.8	318.0	303.8	295.2	288.1	281.8	275.3
60°	390.2	364.2	344.4	323.2	302.0	289.0	278.1	267.9	259.7	250.1	247.4
62.5°	351.9	329.2	311.0	290.4	272.0	260.1	249.7	240.0	230.2	216.2	212.4
65°	299.3	281.5	262.4	245.3	228.9	217.3	202.2	191.4	187.3	185.8	185.2
67.5°	251.7	235.0	218.6	201.0	186.1	175.3	167.7	166.0	163.2	162.4	160.4
70°	220.1	204.3	187.9	171.5	157.2	155.2	152.4	149.6	146.2	144.9	143.5
72.5°	191.6	175.3	158.9	145.8	139.6	137.1	134.4	131.6	129.3	128.0	127.1
75°	147.0	131.9	120.9	116.2	112.7	110.7	106.6	104.5	103.2	101.1	100.4
77.5°	105.8	97.3	92.3	89.3	85.7	83.5	81.1	79.1	77.7	77.2	76.2
80°	80.6	76.5	73.1	69.0	67.7	64.9	64.2	62.2	62.9	60.8	60.8
82.5°	62.6	57.4	54.6	52.6	51.3	49.0	48.4	47.4	47.5	46.0	46.0
85°	32.1	30.8	29.4	28.0	28.0	25.9	26.7	25.9	25.9	24.6	23.9
87.5°	12.8	12.7	11.9	12.3	12.8	12.6	12.8	12.5	12.8	13.0	12.6
90°	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3	25.4	26.7	27.6
92.5°	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6	27.2	27.8	28.3
95°	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9	46.2	47.3	47.9
97.5°	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9	59.8	60.8	61.4
100°	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1	67.9	69.9	71.2
102.5°	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9	71.5	74.0	75.6
105°	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9	74.5	77.2	79.0
107.5°	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7	85.0	82.3	81.4
110°	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4	118.2	93.9	82.3



TEST NUMBER: P331857-940

CATALOG NUMBER: S122RDIW-S1005D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6	216.2	127.8	83.9
115°	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5	336.4	224.1	159.3
117.5°	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2	664.0	636.9	594.6
120°	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4	808.2	811.2	796.3
122.5°	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5	856.3	858.0	855.7
125°	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1	926.8	928.5	929.7
127.5°	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3	992.8	995.3	996.7
130°	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8	1034.5	1037.1	1038.3
132.5°	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0	1074.2	1076.6	1077.5
135°	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4	1131.8	1134.3	1135.2
137.5°	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8	1185.2	1187.6	1188.3
140°	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4	1219.5	1221.7	1222.2
142.5°	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2	1251.2	1253.2	1253.6
145°	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8	1295.5	1297.2	1297.4
147.5°	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7	1333.9	1335.2	1335.2
150°	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6	1358.1	1359.5	1359.6
152.5°	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4	1379.8	1381.3	1381.3
155°	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8	1409.3	1410.8	1410.5
157.5°	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7	1434.3	1436.0	1435.8
160°	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2	1448.6	1450.0	1449.9
162.5°	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6	1462.2	1463.9	1463.7
165°	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4
167.5°	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8	1492.5	1494.2	1494.0
170°	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8	1499.5	1501.2	1500.9
172.5°	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0	1504.7	1506.4	1506.2
175°	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7	1510.4	1512.1	1511.7
177.5°	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3	1510.6	1512.1	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



TEST NUMBER: P331857-940

CATALOG NUMBER: S122RDIW-S1005D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1888.5	1889.5	1887.9	1889.0	1887.9	1889.5	1888.5	1894.4	1895.5	1896.7	1895.5
5°	1759.5	1751.3	1750.0	1747.9	1750.0	1751.3	1759.5	1763.0	1765.7	1771.2	1780.7
7.5°	1605.7	1604.5	1601.1	1596.3	1601.1	1604.5	1605.7	1617.4	1626.7	1637.4	1656.9
10°	1506.7	1503.3	1502.6	1497.8	1502.6	1503.3	1506.7	1521.8	1532.7	1547.7	1574.4
12.5°	1390.8	1368.9	1366.5	1354.6	1366.5	1368.9	1390.8	1410.2	1439.8	1454.3	1482.6
15°	1184.2	1180.1	1166.4	1157.5	1166.4	1180.1	1184.2	1200.6	1211.6	1251.2	1297.0
17.5°	1066.1	1052.8	1048.5	1046.6	1048.5	1052.8	1066.1	1074.1	1089.7	1110.5	1138.2
20°	990.2	977.9	975.8	974.5	975.8	977.9	990.2	999.7	1012.0	1034.6	1063.3
22.5°	937.6	924.8	919.4	915.3	919.4	924.8	937.6	945.0	956.3	973.8	993.3
25°	848.0	843.2	840.5	839.1	840.5	843.2	848.0	854.9	865.8	889.7	910.2
27.5°	777.9	767.4	765.4	761.8	765.4	767.4	777.9	790.1	801.4	812.2	830.5
30°	738.0	734.6	729.8	725.7	729.8	734.6	738.0	744.1	751.6	770.1	787.9
32.5°	691.0	688.1	683.9	682.0	683.9	688.1	691.0	699.3	715.1	726.4	739.2
35°	638.9	629.4	625.3	619.1	625.3	629.4	638.9	645.8	651.9	661.5	684.7
37.5°	583.8	578.8	573.0	575.1	573.0	578.8	583.8	586.7	599.7	613.0	623.0
40°	541.2	537.8	536.5	535.7	536.5	537.8	541.2	550.1	565.8	571.9	587.0
42.5°	507.3	497.8	494.3	494.2	494.3	497.8	507.3	517.3	527.0	537.0	552.5
45°	455.8	446.9	440.8	441.4	440.8	446.9	455.8	459.2	467.4	487.2	496.1
47.5°	403.1	402.8	399.0	400.1	399.0	402.8	403.1	408.9	419.5	431.6	445.8
50°	377.9	373.8	371.0	371.8	371.0	373.8	377.9	382.6	388.8	394.9	416.8
52.5°	353.8	350.3	348.1	351.0	348.1	350.3	353.8	356.4	361.0	367.1	381.8
55°	314.3	310.2	309.5	308.9	309.5	310.2	314.3	317.7	323.2	328.0	334.8
57.5°	270.2	267.4	263.3	261.5	263.3	267.4	270.2	275.3	281.8	288.1	295.2
60°	238.4	233.0	226.1	225.5	226.1	233.0	238.4	247.4	250.1	259.7	267.9
62.5°	209.5	208.4	207.1	206.9	207.1	208.4	209.5	212.4	216.2	230.2	240.0
65°	183.8	183.2	183.8	184.5	183.8	183.2	183.8	185.2	185.8	187.3	191.4
67.5°	160.2	158.9	157.7	158.3	157.7	158.9	160.2	160.4	162.4	163.2	166.0
70°	142.1	141.4	140.8	140.8	140.8	141.4	142.1	143.5	144.9	146.2	149.6
72.5°	124.7	124.5	123.9	123.2	123.9	124.5	124.7	127.1	128.0	129.3	131.6
75°	99.8	98.4	98.4	98.4	98.4	98.4	99.8	100.4	101.1	103.2	104.5
77.5°	76.0	75.3	74.6	74.1	74.6	75.3	76.0	76.2	77.2	77.7	79.1
80°	60.1	59.5	58.8	58.8	58.8	59.5	60.1	60.8	60.8	62.9	62.2
82.5°	45.9	45.2	45.1	44.6	45.1	45.2	45.9	46.0	46.0	47.5	47.4
85°	24.6	25.3	24.6	25.9	24.6	25.3	24.6	23.9	24.6	25.9	25.9
87.5°	12.7	12.2	12.9	12.5	12.9	12.2	12.7	12.6	13.0	12.8	12.5
90°	28.0	28.4	29.0	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3
92.5°	28.5	28.9	29.2	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6
95°	47.6	47.3	47.2	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9
97.5°	61.7	62.1	62.3	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9
100°	71.6	72.1	72.6	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1
102.5°	76.2	77.0	77.7	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9
105°	80.0	81.0	81.9	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9
107.5°	82.4	83.4	84.4	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7
110°	83.3	84.3	85.2	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4



TEST NUMBER: P331857-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	84.7	85.5	86.2	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6
115°	141.8	124.4	106.9	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5
117.5°	537.3	479.9	422.6	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2
120°	763.6	730.8	698.1	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4
122.5°	849.4	843.0	836.7	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5
125°	930.4	931.2	931.9	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1
127.5°	996.8	996.9	997.0	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3
130°	1038.0	1037.9	1037.6	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8
132.5°	1077.4	1077.1	1076.8	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0
135°	1134.8	1134.3	1133.8	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4
137.5°	1187.5	1186.7	1185.9	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8
140°	1220.9	1219.8	1218.5	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4
142.5°	1252.4	1251.2	1249.9	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2
145°	1296.2	1295.0	1293.8	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8
147.5°	1334.3	1333.2	1332.2	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7
150°	1358.4	1357.2	1355.9	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6
152.5°	1379.7	1378.0	1376.4	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4
155°	1408.5	1406.7	1404.7	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8
157.5°	1434.0	1432.1	1430.2	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7
160°	1448.2	1446.5	1444.8	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2
162.5°	1461.6	1459.5	1457.4	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6
165°	1478.7	1477.0	1475.3	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0
167.5°	1491.7	1489.6	1487.4	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8
170°	1498.8	1496.6	1494.4	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8
172.5°	1504.0	1501.8	1499.6	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0
175°	1509.3	1506.9	1504.4	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7
177.5°	1510.1	1508.3	1506.6	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1891.1	1898.8	1910.3	1916.8	1927.8	1934.9	1938.8	1945.8	1949.6	1963.4	1977.5
5°	1785.6	1796.4	1815.6	1833.4	1852.5	1872.3	1886.7	1903.1	1918.1	1944.0	1971.4
7.5°	1664.5	1679.6	1709.2	1737.6	1770.9	1798.9	1823.6	1851.6	1876.7	1913.9	1952.7
10°	1573.7	1600.4	1639.3	1666.0	1709.7	1737.7	1776.6	1807.4	1842.3	1891.4	1935.2
12.5°	1495.5	1527.7	1559.0	1596.0	1635.3	1681.9	1724.7	1764.2	1805.6	1856.5	1907.8
15°	1353.7	1400.2	1448.7	1486.2	1539.5	1588.8	1638.6	1691.9	1742.5	1803.3	1870.3
17.5°	1171.1	1224.9	1306.5	1370.9	1433.5	1482.8	1544.6	1609.1	1668.7	1742.0	1816.6
20°	1088.5	1128.2	1183.5	1270.3	1364.6	1417.2	1480.1	1551.1	1619.4	1699.4	1779.4
22.5°	1022.3	1057.7	1102.1	1169.7	1275.0	1346.7	1412.3	1484.4	1563.7	1645.3	1734.0
25°	927.9	952.5	999.0	1053.6	1126.1	1244.3	1316.1	1388.5	1474.6	1562.1	1663.2
27.5°	857.0	879.1	909.4	961.5	1015.4	1100.3	1214.4	1293.4	1379.2	1477.7	1582.6
30°	802.9	828.8	862.4	899.3	958.1	1024.3	1138.4	1230.0	1314.7	1415.9	1527.9
32.5°	763.6	784.1	812.6	850.1	899.0	962.5	1053.6	1164.9	1247.5	1354.1	1471.1
35°	699.0	723.0	746.2	781.8	821.4	879.4	948.4	1067.4	1149.3	1254.5	1372.1
37.5°	645.9	660.5	686.2	714.3	756.2	799.5	859.3	966.0	1054.6	1158.0	1278.3
40°	605.4	623.8	643.0	674.4	708.6	750.3	809.0	888.3	990.2	1091.3	1208.8
42.5°	566.1	589.4	609.7	630.7	668.2	709.8	757.7	824.9	928.9	1024.6	1138.8
45°	518.6	533.7	554.8	578.1	608.9	644.4	686.7	745.5	845.3	927.9	1035.3
47.5°	463.4	485.4	499.3	521.9	551.2	585.1	624.5	675.3	756.0	833.5	933.0
50°	425.7	448.3	468.1	488.6	514.5	547.3	580.1	629.4	694.3	775.6	868.5
52.5°	393.4	413.3	432.6	453.1	478.5	508.5	539.7	582.9	638.5	713.3	803.4
55°	349.2	361.5	381.3	401.8	424.4	453.1	483.1	519.3	567.1	630.0	703.1
57.5°	303.8	318.0	333.8	354.4	377.2	399.2	426.2	459.1	496.8	553.7	616.3
60°	278.1	289.0	302.0	323.2	344.4	364.2	390.2	417.5	453.1	502.2	555.5
62.5°	249.7	260.1	272.0	290.4	311.0	329.2	351.9	380.8	411.0	455.8	502.5
65°	202.2	217.3	228.9	245.3	262.4	281.5	299.3	322.5	349.2	384.7	426.4
67.5°	167.7	175.3	186.1	201.0	218.6	235.0	251.7	269.9	293.0	320.5	353.6
70°	152.4	155.2	157.2	171.5	187.9	204.3	220.1	237.1	256.9	279.5	308.2
72.5°	134.4	137.1	139.6	145.8	158.9	175.3	191.6	204.3	223.0	241.7	265.0
75°	106.6	110.7	112.7	116.2	120.9	131.9	147.0	159.2	170.1	184.5	203.0
77.5°	81.1	83.5	85.7	89.3	92.3	97.3	105.8	116.8	127.1	135.5	148.1
80°	64.2	64.9	67.7	69.0	73.1	76.5	80.6	89.5	99.8	103.2	112.1
82.5°	48.4	49.0	51.3	52.6	54.6	57.4	62.6	64.9	72.9	77.5	83.1
85°	26.7	25.9	28.0	28.0	29.4	30.8	32.1	35.5	37.5	43.1	44.4
87.5°	12.8	12.6	12.8	12.3	11.9	12.7	12.8	12.8	13.3	14.4	16.1
90°	23.0	21.8	19.9	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1
92.5°	25.9	25.3	24.3	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0
95°	43.8	42.5	40.8	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9
97.5°	57.9	57.0	53.1	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7
100°	64.1	62.2	58.1	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1
102.5°	66.4	63.9	98.4	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7
105°	69.2	66.5	132.7	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6
107.5°	90.4	93.2	172.5	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9
110°	166.7	190.9	260.9	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	393.1	481.4	498.8	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0
115°	560.8	673.1	667.0	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2
117.5°	718.3	745.5	741.3	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0
120°	802.5	799.5	795.2	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6
122.5°	852.7	851.0	846.3	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4
125°	923.5	921.8	917.1	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8
127.5°	987.9	985.4	982.0	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2
130°	1029.1	1026.4	1023.8	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0
132.5°	1069.7	1067.5	1064.8	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6
135°	1127.0	1124.6	1122.4	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3
137.5°	1180.4	1178.0	1175.5	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7
140°	1215.1	1213.0	1210.3	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2
142.5°	1247.2	1245.3	1242.2	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7
145°	1292.1	1290.4	1286.3	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9
147.5°	1331.4	1330.1	1326.1	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9
150°	1355.1	1353.7	1349.8	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9
152.5°	1377.0	1375.5	1371.8	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4
155°	1406.4	1405.0	1402.0	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7
157.5°	1431.0	1429.4	1427.4	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5
160°	1445.6	1444.2	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2
162.5°	1458.9	1457.3	1456.1	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2
165°	1475.3	1473.6	1472.9	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9
167.5°	1489.1	1487.4	1486.7	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9
170°	1496.1	1494.4	1493.9	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8
172.5°	1501.3	1499.6	1499.1	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0
175°	1507.0	1505.3	1504.9	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7
177.5°	1508.0	1506.6	1506.4	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1978.1	1979.7	1990.7	1995.6	2005.5	2009.2	2013.7	2012.5	2012.5	2014.7	2030.0
5°	1982.4	1996.0	2016.5	2036.3	2055.5	2071.8	2082.8	2093.7	2097.8	2117.6	2135.4
7.5°	1975.2	2000.4	2034.3	2064.5	2100.7	2129.0	2152.5	2173.6	2188.2	2217.0	2246.5
10°	1966.0	2001.4	2039.7	2078.7	2128.5	2166.1	2204.4	2233.8	2243.4	2286.4	2311.0
12.5°	1947.3	1994.9	2043.5	2094.0	2142.8	2194.6	2236.7	2266.0	2299.6	2338.3	2383.7
15°	1919.5	1974.2	2037.6	2102.6	2172.3	2235.2	2280.3	2331.5	2368.4	2410.7	2450.4
17.5°	1879.5	1949.8	2030.6	2105.8	2186.4	2253.9	2316.0	2365.1	2391.1	2415.3	2421.2
20°	1847.7	1923.6	2018.6	2107.4	2188.0	2265.9	2327.4	2368.4	2375.3	2375.9	2339.7
22.5°	1813.3	1899.0	1998.3	2089.4	2185.9	2272.4	2320.3	2337.8	2310.7	2264.4	2194.3
25°	1750.0	1849.1	1964.5	2068.4	2173.6	2255.7	2272.1	2241.3	2146.3	2046.6	1920.1
27.5°	1681.4	1792.8	1916.6	2032.0	2144.1	2194.9	2159.5	2048.7	1877.7	1728.9	1548.7
30°	1631.1	1756.1	1877.8	2006.9	2110.8	2132.6	2051.4	1888.0	1688.5	1464.4	1284.7
32.5°	1573.7	1704.8	1838.4	1971.9	2058.9	2037.6	1903.2	1702.2	1468.2	1247.9	1078.0
35°	1491.7	1627.0	1771.2	1905.1	1960.4	1868.2	1667.3	1405.6	1166.4	960.7	843.9
37.5°	1397.0	1544.4	1694.3	1817.2	1813.3	1659.6	1385.9	1115.7	914.7	793.1	709.8
40°	1329.7	1478.7	1640.7	1744.5	1700.1	1499.9	1203.4	948.4	801.6	704.5	643.7
42.5°	1265.2	1414.8	1575.7	1658.1	1580.9	1334.8	1039.4	839.6	718.5	642.7	593.4
45°	1155.5	1313.3	1462.3	1508.1	1370.0	1098.8	840.5	695.6	615.0	558.9	524.8
47.5°	1048.2	1203.5	1339.4	1340.2	1153.6	891.1	709.0	602.0	533.2	489.8	464.9
50°	982.6	1130.2	1244.3	1226.5	1014.8	792.6	634.1	541.9	484.5	451.0	425.0
52.5°	908.8	1052.0	1150.8	1100.3	897.2	697.5	566.9	489.4	441.8	412.7	389.5
55°	801.6	928.6	998.4	921.8	731.8	580.1	479.0	418.2	382.6	358.0	338.2
57.5°	696.2	801.0	844.9	755.7	602.8	481.1	405.2	359.5	324.3	306.7	296.4
60°	630.0	719.5	750.3	651.9	524.1	420.9	358.7	316.4	290.4	278.8	268.6
62.5°	565.0	638.1	650.8	560.6	456.9	368.5	315.0	279.2	262.0	250.9	241.2
65°	468.8	521.4	515.2	442.8	361.5	292.5	253.5	231.7	218.6	203.0	185.8
67.5°	385.9	418.0	398.7	344.4	275.9	227.3	201.9	185.3	169.2	154.3	150.3
70°	333.5	351.9	331.4	281.5	226.1	190.6	170.1	150.3	140.8	137.3	131.2
72.5°	283.2	289.6	267.4	224.7	184.0	157.8	137.9	126.8	121.6	118.8	114.8
75°	212.5	207.8	188.6	155.2	127.8	110.0	103.9	99.8	96.3	93.6	91.6
77.5°	149.3	142.2	125.2	103.3	89.0	80.5	76.8	74.6	72.9	71.6	69.6
80°	112.1	107.3	90.2	73.8	67.7	63.6	61.5	58.8	58.8	57.4	55.4
82.5°	82.0	76.7	61.8	54.1	50.7	48.2	46.7	45.1	44.6	44.9	43.3
85°	43.1	34.9	30.8	29.4	27.4	25.9	26.7	25.3	25.3	25.3	24.6
87.5°	13.9	11.7	11.7	11.7	12.7	13.0	12.8	13.3	14.2	13.9	14.7
90°	3.7	6.4	9.1	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3
92.5°	21.8	21.6	21.3	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6
95°	62.9	54.9	46.9	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9
97.5°	118.2	95.6	73.1	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9
100°	159.9	126.6	93.5	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1
102.5°	243.6	236.6	229.6	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9
105°	338.9	346.2	353.4	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9
107.5°	429.7	435.6	441.5	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7
110°	488.3	493.4	498.5	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	543.6	548.0	552.6	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6
115°	631.3	635.4	639.5	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5
117.5°	710.6	715.2	719.8	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2
120°	767.2	770.8	774.5	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4
122.5°	816.3	820.1	823.9	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5
125°	889.9	893.1	896.3	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1
127.5°	957.7	961.2	964.7	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3
130°	1000.9	1004.8	1008.6	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8
132.5°	1043.9	1047.2	1050.5	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0
135°	1101.2	1105.1	1108.9	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4
137.5°	1157.4	1160.1	1162.9	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8
140°	1194.2	1196.1	1198.0	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4
142.5°	1225.4	1227.2	1228.9	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2
145°	1272.7	1272.5	1272.2	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8
147.5°	1315.0	1314.1	1313.1	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7
150°	1342.2	1340.5	1338.7	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6
152.5°	1365.6	1363.6	1361.7	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4
155°	1399.5	1397.3	1395.1	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8
157.5°	1426.6	1424.8	1423.0	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7
160°	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2
162.5°	1456.7	1455.3	1453.8	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6
165°	1475.5	1474.0	1472.6	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0
167.5°	1489.4	1488.0	1486.6	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8
170°	1497.3	1495.8	1494.4	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8
172.5°	1502.5	1501.1	1499.6	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0
175°	1509.0	1507.3	1505.7	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7
177.5°	1510.5	1509.1	1507.8	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2035.5	2042.6	2045.9	2045.9	2049.7	2048.1	2046.4
5°	2152.5	2165.4	2168.2	2180.5	2189.3	2186.7	2188.0
7.5°	2268.8	2289.6	2310.3	2319.8	2321.2	2326.7	2328.8
10°	2340.4	2357.5	2389.6	2384.8	2408.7	2422.4	2399.9
12.5°	2409.2	2432.3	2454.6	2460.8	2474.3	2478.7	2469.8
15°	2471.6	2483.9	2485.3	2481.8	2485.9	2482.5	2469.5
17.5°	2413.3	2393.4	2353.0	2333.8	2318.6	2296.2	2287.2
20°	2317.1	2258.3	2190.0	2162.8	2130.6	2067.7	2082.8
22.5°	2109.4	2042.5	1974.2	1894.4	1856.2	1796.6	1793.1
25°	1786.2	1670.7	1543.6	1454.8	1402.8	1343.5	1317.4
27.5°	1388.8	1243.4	1139.2	1086.5	1038.5	991.4	989.4
30°	1127.5	1018.2	937.5	892.4	863.0	843.2	847.3
32.5°	950.4	875.5	821.1	783.6	761.9	747.0	746.7
35°	776.9	725.7	690.8	675.1	659.4	648.5	649.2
37.5°	664.9	634.1	614.7	597.4	587.5	582.2	579.2
40°	607.4	582.2	567.1	556.9	548.7	541.2	539.8
42.5°	562.1	541.2	526.2	518.1	510.4	505.2	503.7
45°	498.8	481.7	468.1	459.2	455.8	451.0	451.0
47.5°	443.7	427.0	416.3	410.7	404.8	401.6	401.5
50°	406.6	393.6	384.1	380.6	375.9	373.8	373.1
52.5°	373.3	363.6	356.7	354.4	352.3	349.7	350.2
55°	328.0	322.5	319.8	317.7	314.3	310.2	313.0
57.5°	289.9	285.3	277.9	271.4	268.3	265.4	266.5
60°	263.1	253.5	244.0	236.4	234.3	228.2	228.2
62.5°	229.2	215.8	204.0	199.8	197.8	194.9	194.3
65°	176.3	170.9	168.1	165.3	164.0	164.0	162.6
67.5°	146.1	143.9	140.9	140.2	138.8	138.5	138.0
70°	129.1	126.4	125.0	124.4	123.0	123.7	121.6
72.5°	112.7	110.6	110.3	108.5	107.7	107.8	106.3
75°	88.8	88.8	88.2	87.5	86.1	85.4	86.1
77.5°	68.3	68.5	67.2	67.1	67.0	67.1	66.4
80°	54.7	55.4	54.7	53.9	53.3	53.9	53.3
82.5°	43.2	42.3	42.1	42.0	41.8	41.4	41.3
85°	24.6	25.3	24.6	23.9	23.9	23.9	24.6
87.5°	14.4	14.6	14.8	14.9	15.0	15.1	14.6
90°	25.4	26.7	27.6	28.0	28.4	29.0	29.4
92.5°	27.2	27.8	28.3	28.5	28.9	29.2	29.4
95°	46.2	47.3	47.9	47.6	47.3	47.2	46.9
97.5°	59.8	60.8	61.4	61.7	62.1	62.3	62.6
100°	67.9	69.9	71.2	71.6	72.1	72.6	73.1
102.5°	71.5	74.0	75.6	76.2	77.0	77.7	78.3
105°	74.5	77.2	79.0	80.0	81.0	81.9	82.9
107.5°	85.0	82.3	81.4	82.4	83.4	84.4	85.3
110°	118.2	93.9	82.3	83.3	84.3	85.2	86.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	216.2	127.8	83.9	84.7	85.5	86.2	87.0
115°	336.4	224.1	159.3	141.8	124.4	106.9	89.4
117.5°	664.0	636.9	594.6	537.3	479.9	422.6	365.2
120°	808.2	811.2	796.3	763.6	730.8	698.1	665.4
122.5°	856.3	858.0	855.7	849.4	843.0	836.7	830.3
125°	926.8	928.5	929.7	930.4	931.2	931.9	932.6
127.5°	992.8	995.3	996.7	996.8	996.9	997.0	997.2
130°	1034.5	1037.1	1038.3	1038.0	1037.9	1037.6	1037.3
132.5°	1074.2	1076.6	1077.5	1077.4	1077.1	1076.8	1076.7
135°	1131.8	1134.3	1135.2	1134.8	1134.3	1133.8	1133.4
137.5°	1185.2	1187.6	1188.3	1187.5	1186.7	1185.9	1185.0
140°	1219.5	1221.7	1222.2	1220.9	1219.8	1218.5	1217.4
142.5°	1251.2	1253.2	1253.6	1252.4	1251.2	1249.9	1248.8
145°	1295.5	1297.2	1297.4	1296.2	1295.0	1293.8	1292.6
147.5°	1333.9	1335.2	1335.2	1334.3	1333.2	1332.2	1331.2
150°	1358.1	1359.5	1359.6	1358.4	1357.2	1355.9	1354.8
152.5°	1379.8	1381.3	1381.3	1379.7	1378.0	1376.4	1374.8
155°	1409.3	1410.8	1410.5	1408.5	1406.7	1404.7	1402.8
157.5°	1434.3	1436.0	1435.8	1434.0	1432.1	1430.2	1428.3
160°	1448.6	1450.0	1449.9	1448.2	1446.5	1444.8	1443.1
162.5°	1462.2	1463.9	1463.7	1461.6	1459.5	1457.4	1455.4
165°	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6
167.5°	1492.5	1494.2	1494.0	1491.7	1489.6	1487.4	1485.2
170°	1499.5	1501.2	1500.9	1498.8	1496.6	1494.4	1492.2
172.5°	1504.7	1506.4	1506.2	1504.0	1501.8	1499.6	1497.4
175°	1510.4	1512.1	1511.7	1509.3	1506.9	1504.4	1502.0
177.5°	1510.6	1512.1	1511.8	1510.1	1508.3	1506.6	1504.9
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4

(END OF REPORT)