

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: P331567-840

Luminaire Tested: **S122DIW-S865D970U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331567-840
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: S122DIW-S865D970U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7758.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

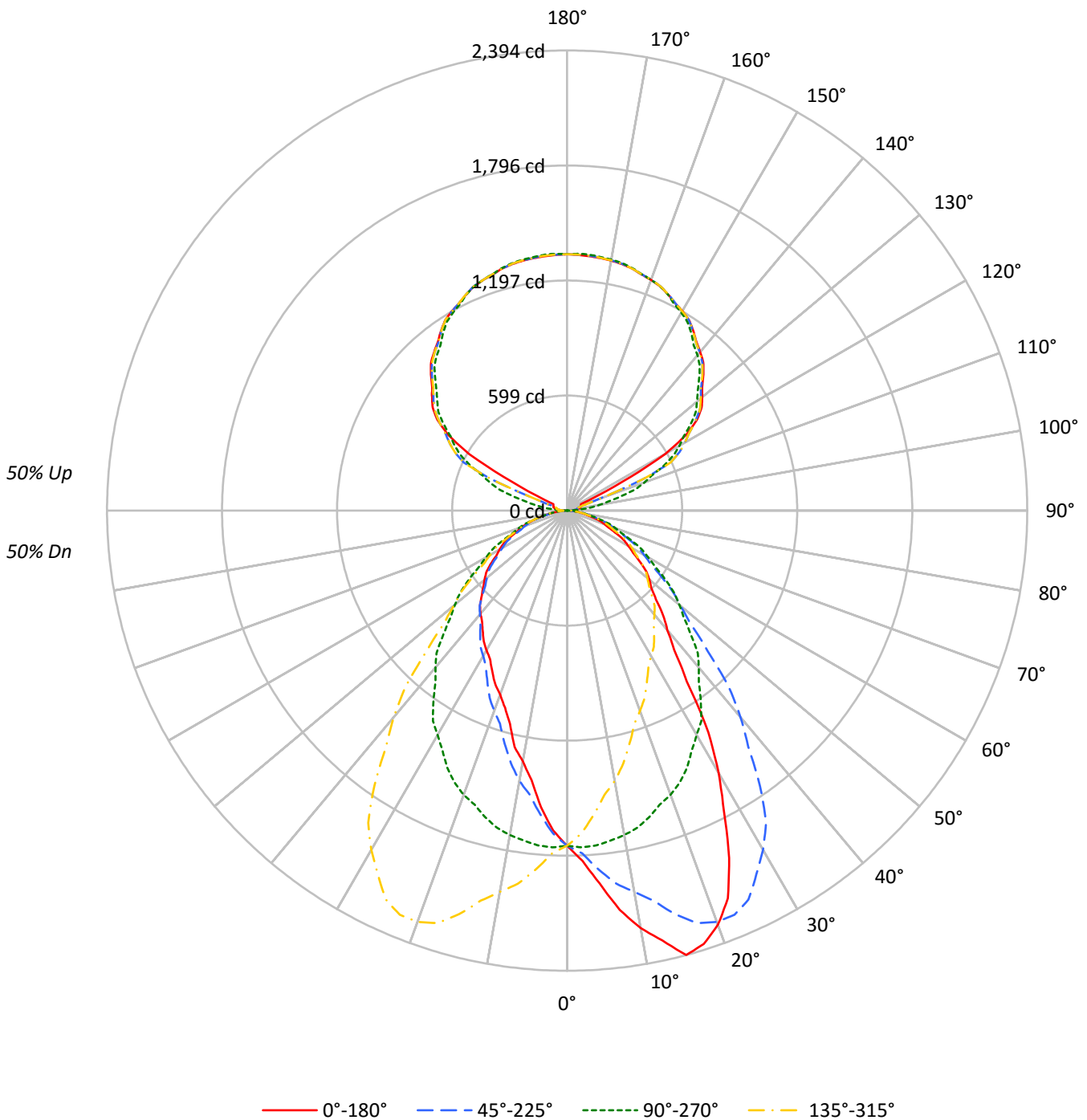
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48	43
2	90	83	77	72	83	77	71	67	65	61	58	54	52	49	45	43	41	37
3	82	73	66	60	76	68	62	57	58	53	49	49	45	42	40	38	36	32
4	75	65	57	52	69	60	54	48	52	47	43	44	40	37	36	33	31	27
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	33	30	27	24
6	64	52	44	39	59	49	42	37	42	37	33	36	32	28	30	27	24	22
7	59	47	40	34	55	44	37	32	38	33	29	33	28	25	27	24	22	19
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	51	40	32	27	48	37	30	26	32	27	23	28	24	21	23	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28150	28150	28150	28150
5°	31561	28336	25109	28336
10°	36166	28103	21730	28103
15°	40010	27587	19198	27587
20°	39400	27034	17500	27034
25°	35527	26298	16425	26298
30°	29358	25124	15642	25124
35°	21396	23893	15084	23893
40°	17089	22443	14773	22443
45°	14933	20763	14351	20763
50°	14039	19138	14071	19138
55°	12940	17486	13695	17486
60°	11858	15733	13114	15733
65°	10804	14155	12542	14155
70°	9805	12623	11703	12623
75°	8696	10911	10368	10911
80°	7476	9028	8350	9028
85°	6706	6706	4965	6706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.1
10°-20°	482.7	6.2
20°-30°	700.6	9.0
30°-40°	739.3	9.5
40°-50°	654.6	8.4
50°-60°	522.4	6.7
60°-70°	355.1	4.6
70°-80°	182.0	2.3
80°-90°	47.2	0.6
90°-100°	44.5	0.6
100°-110°	163.1	2.1
110°-120°	436.1	5.6
120°-130°	719.8	9.3
130°-140°	765.5	9.9
140°-150°	711.5	9.2
150°-160°	572.1	7.4
160°-170°	368.6	4.8
170°-180°	126.9	1.6
0°-30°	1349.4	17.4
0°-40°	2088.7	26.9
0°-60°	3265.7	42.1
0°-90°	3850.0	49.6
90°-120°	643.7	8.3
90°-150°	2840.5	36.6
90°-180°	3908.0	50.4
0°-180°	7758.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1947	1748	1549	1748	1947	194
15°	2394	1650	1148	1650	2394	660
25°	1994	1476	922	1476	1994	901
35°	1086	1212	765	1212	1086	706
45°	654	909	628	909	654	514
55°	460	621	486	621	460	412
65°	283	370	328	370	283	281
75°	139	175	166	175	139	149
85°	36	36	27	36	36	40
90°	26	1	26	1	26	13
95°	42	63	42	63	42	39
105°	73	293	73	293	73	76
115°	79	555	79	555	79	198
125°	825	784	825	784	825	714
135°	1003	971	1003	971	1003	773
145°	1144	1126	1144	1126	1144	715
155°	1241	1240	1241	1240	1241	573
165°	1304	1307	1304	1307	1304	368
175°	1329	1336	1329	1336	1329	127
180°	1334	1334	1334	1334	1334	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1824.0	1824.5	1825.6	1817.1	1815.9	1815.9	1808.5	1802.0	1794.5	1784.3	1785.4
5°	1947.3	1954.7	1957.3	1949.3	1937.2	1935.9	1924.5	1905.7	1888.3	1874.2	1864.2
7.5°	2094.5	2097.4	2090.8	2080.2	2071.2	2055.2	2034.0	2013.3	1984.2	1957.5	1937.6
10°	2205.9	2210.0	2198.6	2183.1	2170.4	2151.6	2120.8	2089.3	2051.1	2014.3	1984.8
12.5°	2290.7	2300.6	2285.9	2283.9	2262.1	2236.3	2199.7	2183.7	2130.0	2078.6	2047.0
15°	2393.6	2392.9	2394.3	2381.5	2365.4	2361.4	2322.6	2280.4	2204.6	2174.4	2122.2
17.5°	2363.8	2374.0	2378.7	2378.5	2378.1	2375.6	2363.2	2336.5	2298.6	2249.7	2189.3
20°	2293.1	2306.4	2308.5	2323.9	2332.6	2344.0	2348.6	2341.3	2317.8	2276.9	2224.7
22.5°	2183.7	2187.5	2193.7	2217.8	2236.6	2265.2	2280.1	2304.8	2295.8	2275.9	2232.2
25°	1994.2	1987.5	2010.9	2023.0	2066.6	2112.1	2145.0	2181.1	2213.3	2232.7	2220.0
27.5°	1766.7	1756.6	1791.7	1823.7	1859.1	1908.4	1959.6	2020.0	2070.3	2133.1	2154.7
30°	1574.7	1580.7	1614.3	1648.4	1702.0	1771.7	1829.4	1895.7	1967.4	2037.7	2086.7
32.5°	1367.8	1391.0	1412.2	1464.5	1511.8	1589.4	1673.9	1756.9	1846.2	1926.2	2002.0
35°	1085.5	1112.4	1141.9	1180.0	1246.4	1323.4	1405.8	1517.7	1639.7	1749.0	1838.8
37.5°	913.7	909.5	926.3	953.9	1007.6	1069.9	1164.8	1275.4	1418.9	1547.2	1673.9
40°	810.8	808.1	820.2	845.7	886.6	932.1	1015.2	1112.4	1245.7	1402.5	1553.3
42.5°	740.0	741.6	748.3	766.3	794.4	831.8	894.0	976.7	1098.8	1246.5	1408.6
45°	654.0	658.7	666.1	674.8	690.8	721.6	756.5	815.5	912.0	1035.3	1194.8
47.5°	592.1	592.2	599.8	607.3	616.9	634.3	662.7	699.7	767.8	868.2	1005.3
50°	558.9	554.2	559.6	565.5	575.6	587.6	606.4	641.3	686.8	767.9	882.5
52.5°	518.2	518.3	523.1	525.3	534.3	546.4	563.5	587.6	628.9	692.4	786.6
55°	459.7	463.0	465.7	469.7	477.8	486.5	499.9	515.9	548.2	595.7	665.4
57.5°	404.8	405.8	408.5	416.2	421.2	429.3	442.0	456.6	477.5	512.7	565.1
60°	367.2	367.2	372.5	375.9	382.6	390.6	400.7	414.8	433.5	462.3	504.6
62.5°	333.0	332.3	334.5	340.0	345.1	352.6	362.6	374.6	392.2	417.9	452.6
65°	282.8	281.4	285.5	286.8	292.2	299.5	307.6	320.3	334.4	353.1	384.0
67.5°	234.5	236.1	238.3	240.9	243.8	251.6	256.9	265.9	277.8	293.4	314.3
70°	207.7	207.7	207.7	209.7	213.8	217.8	223.2	230.6	241.9	255.3	274.1
72.5°	177.7	179.9	182.0	180.8	185.9	188.3	194.7	198.8	209.7	218.3	234.9
75°	139.4	139.4	139.4	142.7	144.7	146.7	150.8	154.8	160.2	170.9	179.6
77.5°	104.0	103.7	104.4	105.2	107.3	109.8	111.0	114.6	119.6	124.5	131.9
80°	80.4	81.8	82.4	83.7	83.7	85.1	85.7	90.5	93.8	97.1	101.9
82.5°	62.2	62.4	62.6	62.8	63.4	64.2	65.9	67.5	68.6	71.4	75.0
85°	36.2	35.5	35.5	36.9	36.2	36.2	37.6	38.9	38.9	39.5	41.5
87.5°	19.2	19.1	19.5	18.9	18.8	19.2	19.0	18.2	18.6	18.9	19.1
90°	26.1	25.7	25.1	24.7	24.3	23.6	22.5	21.4	20.4	19.3	17.6
92.5°	26.1	25.8	25.5	25.2	25.0	24.6	24.0	23.5	22.9	22.4	21.5
95°	41.5	41.7	41.9	42.1	42.3	41.9	40.9	39.8	38.7	37.7	36.2
97.5°	55.3	55.1	54.8	54.6	54.3	53.8	52.9	52.1	51.2	50.4	46.9
100°	64.6	64.2	63.8	63.3	62.9	61.9	60.2	58.5	56.8	55.0	51.4
102.5°	69.3	68.7	68.1	67.5	66.9	65.4	63.2	61.0	58.8	56.6	87.1
105°	73.3	72.5	71.6	70.8	69.9	68.3	65.9	63.6	61.2	58.9	117.4
107.5°	75.4	74.6	73.7	72.9	72.0	72.8	75.2	77.6	80.0	82.4	152.6
110°	76.2	75.3	74.5	73.6	72.8	83.1	104.5	125.9	147.4	168.8	230.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	77.1	76.3	75.6	74.9	74.2	113.0	191.3	269.4	347.7	426.0	441.2
115°	79.2	94.5	110.0	125.4	140.9	198.2	297.5	396.8	496.0	595.4	590.1
117.5°	323.1	373.9	424.5	475.2	526.0	563.4	587.4	611.4	635.4	659.4	655.8
120°	588.7	617.5	646.5	675.5	704.4	717.6	715.0	712.5	709.9	707.3	703.5
122.5°	734.6	740.1	745.8	751.3	757.0	759.0	757.5	756.0	754.4	752.9	748.6
125°	825.1	824.4	823.7	823.1	822.4	821.4	819.9	818.4	816.9	815.4	811.3
127.5°	882.1	882.0	881.9	881.8	881.6	880.5	878.3	876.2	873.9	871.7	868.7
130°	917.7	917.9	918.1	918.3	918.6	917.5	915.1	912.7	910.4	908.1	905.6
132.5°	952.4	952.6	952.8	953.0	953.3	952.4	950.4	948.4	946.3	944.3	941.9
135°	1002.6	1003.0	1003.4	1003.9	1004.3	1003.4	1001.3	999.2	997.0	994.9	992.9
137.5°	1048.3	1049.0	1049.8	1050.6	1051.3	1050.6	1048.4	1046.3	1044.3	1042.2	1040.0
140°	1076.9	1077.9	1079.0	1080.2	1081.2	1080.8	1078.8	1076.9	1075.0	1073.1	1070.7
142.5°	1104.7	1105.8	1106.8	1107.9	1108.9	1108.6	1106.9	1105.1	1103.4	1101.6	1098.9
145°	1143.5	1144.6	1145.6	1146.7	1147.8	1147.5	1146.1	1144.6	1143.1	1141.6	1137.9
147.5°	1177.6	1178.5	1179.4	1180.3	1181.2	1181.1	1180.0	1178.9	1177.8	1176.7	1173.1
150°	1198.5	1199.5	1200.6	1201.7	1202.7	1202.6	1201.3	1200.1	1198.8	1197.5	1194.1
152.5°	1216.3	1217.7	1219.1	1220.5	1221.9	1221.9	1220.6	1219.4	1218.1	1216.8	1213.6
155°	1240.9	1242.6	1244.4	1246.1	1247.8	1248.0	1246.7	1245.5	1244.2	1242.8	1240.3
157.5°	1263.5	1265.2	1266.9	1268.5	1270.2	1270.3	1268.9	1267.4	1266.0	1264.5	1262.6
160°	1276.7	1278.2	1279.6	1281.1	1282.6	1282.7	1281.4	1280.2	1278.9	1277.6	1276.4
162.5°	1287.5	1289.3	1291.1	1292.9	1294.8	1295.1	1293.5	1292.1	1290.6	1289.2	1288.1
165°	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7	1308.2	1306.7	1305.1	1303.6	1303.0
167.5°	1313.9	1315.9	1317.8	1319.7	1321.6	1321.8	1320.3	1318.8	1317.3	1315.9	1315.2
170°	1320.1	1322.0	1323.9	1325.9	1327.8	1328.0	1326.5	1325.0	1323.5	1322.0	1321.6
172.5°	1324.7	1326.7	1328.6	1330.5	1332.4	1332.6	1331.1	1329.6	1328.2	1326.7	1326.2
175°	1328.8	1330.9	1333.0	1335.1	1337.4	1337.7	1336.2	1334.6	1333.1	1331.6	1331.2
177.5°	1331.3	1332.8	1334.3	1335.8	1337.5	1337.6	1336.4	1335.2	1334.0	1332.8	1332.6
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1789.2	1784.8	1782.2	1772.5	1763.9	1755.3	1752.7	1753.7	1742.0	1730.7	1725.9
5°	1858.9	1845.4	1832.7	1814.6	1793.2	1769.7	1757.7	1748.3	1724.8	1699.4	1684.7
7.5°	1921.3	1902.1	1877.6	1843.6	1812.3	1775.4	1752.0	1731.2	1697.0	1661.0	1639.0
10°	1959.3	1933.2	1901.7	1860.2	1822.0	1777.1	1745.6	1714.1	1673.9	1631.0	1604.2
12.5°	1992.1	1956.8	1925.8	1872.5	1827.4	1771.2	1733.8	1689.4	1647.1	1596.2	1569.9
15°	2069.9	2004.9	1945.9	1885.6	1830.0	1751.6	1710.1	1650.4	1594.8	1531.9	1501.7
17.5°	2130.1	2057.1	1964.2	1887.5	1822.6	1735.9	1674.9	1603.4	1537.6	1465.6	1424.6
20°	2164.4	2080.6	1980.7	1889.7	1811.9	1712.7	1646.4	1573.4	1496.3	1415.2	1371.0
22.5°	2184.7	2096.7	1997.9	1881.6	1790.5	1693.9	1610.5	1530.5	1452.4	1364.8	1318.5
25°	2191.2	2110.8	2006.3	1874.9	1763.7	1654.5	1554.0	1476.2	1381.7	1300.0	1232.3
27.5°	2159.3	2101.6	2001.1	1862.3	1732.7	1605.0	1493.0	1404.9	1305.3	1216.5	1148.4
30°	2120.2	2086.7	1988.8	1849.5	1708.1	1570.7	1447.4	1347.6	1248.4	1158.6	1088.9
32.5°	2059.6	2052.3	1966.3	1831.2	1681.8	1527.3	1399.7	1298.8	1188.9	1100.7	1034.2
35°	1940.6	1972.8	1918.4	1790.5	1632.3	1465.5	1327.5	1212.2	1098.3	1013.8	951.5
37.5°	1781.1	1861.0	1846.7	1730.8	1565.6	1398.3	1245.9	1125.4	1016.8	931.6	870.4
40°	1671.2	1773.0	1787.8	1685.3	1518.4	1346.3	1184.8	1064.8	958.9	881.2	819.5
42.5°	1553.3	1672.2	1712.7	1630.6	1466.9	1291.5	1130.0	1005.8	901.0	825.5	770.7
45°	1355.6	1513.1	1586.1	1539.2	1381.1	1201.4	1035.3	909.3	814.2	743.2	700.9
47.5°	1170.7	1342.8	1441.1	1424.5	1285.5	1107.6	943.3	822.4	729.8	673.2	635.4
50°	1040.0	1216.9	1335.4	1340.9	1216.9	1040.7	875.9	761.9	676.8	623.9	593.0
52.5°	926.3	1095.2	1224.6	1252.9	1140.2	971.0	815.3	701.9	626.9	578.2	550.7
55°	778.0	920.7	1064.1	1116.4	1025.9	865.1	721.0	621.2	550.8	517.4	493.2
57.5°	646.8	765.8	898.2	955.9	900.2	762.5	627.4	540.8	483.6	454.3	435.9
60°	577.6	671.5	789.4	858.4	810.1	687.5	569.6	487.2	440.3	414.1	396.7
62.5°	513.3	596.4	696.1	759.2	733.0	617.3	511.7	438.9	398.4	374.0	361.3
65°	423.5	489.2	566.2	624.5	607.1	519.3	432.9	370.5	338.4	318.9	308.9
67.5°	348.7	396.2	449.6	500.7	486.7	424.4	355.0	306.5	282.6	265.8	259.7
70°	301.5	337.7	385.3	426.2	414.8	363.9	308.9	267.4	246.6	232.6	226.5
72.5°	256.5	286.3	322.6	356.0	348.3	306.0	260.1	228.7	212.8	199.9	194.9
75°	193.7	216.4	238.5	260.6	258.6	225.8	199.0	174.9	162.2	152.1	150.1
77.5°	143.0	155.7	170.8	183.9	180.3	161.5	140.5	126.6	117.2	110.6	109.5
80°	109.3	116.6	127.3	136.7	132.0	124.0	107.2	97.1	90.5	83.7	81.1
82.5°	79.2	86.5	93.0	98.1	94.5	86.9	76.6	69.8	65.8	61.2	60.2
85°	41.5	45.5	48.3	49.6	48.3	43.5	38.9	36.2	32.8	30.8	30.2
87.5°	19.3	18.9	18.6	19.2	17.2	16.7	14.0	12.0	11.9	11.8	11.2
90°	15.9	14.1	12.4	10.4	8.1	5.7	3.3	1.0	3.3	5.7	8.1
92.5°	20.7	19.8	19.0	18.7	18.9	19.1	19.3	19.5	19.3	19.1	18.9
95°	34.6	33.1	31.6	34.4	41.5	48.6	55.6	62.7	55.6	48.6	41.5
97.5°	43.4	40.0	36.5	44.7	64.6	84.6	104.5	124.5	104.5	84.6	64.6
100°	47.7	44.0	40.4	53.3	82.7	112.0	141.4	170.8	141.4	112.0	82.7
102.5°	117.5	148.0	178.5	196.8	203.1	209.3	215.5	221.8	215.5	209.3	203.1
105°	175.9	234.5	293.1	319.1	312.7	306.2	299.8	293.4	299.8	306.2	312.7
107.5°	222.8	293.1	363.2	395.8	390.5	385.4	380.2	375.0	380.2	385.4	390.5
110°	292.9	354.8	416.8	445.5	441.0	436.5	432.0	427.5	432.0	436.5	441.0



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CATALOG NUMBER: S122DIW-S865D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	456.6	471.9	487.2	492.8	488.9	484.8	480.9	476.9	480.9	484.8	488.9
115°	584.6	579.3	573.9	569.5	565.8	562.2	558.5	554.8	558.5	562.2	565.8
117.5°	652.1	648.4	644.7	640.9	636.7	632.7	628.6	624.5	628.6	632.7	636.7
120°	699.6	695.7	691.9	688.3	685.1	681.9	678.7	675.5	678.7	681.9	685.1
122.5°	744.5	740.2	736.1	732.3	728.8	725.5	722.1	718.7	722.1	725.5	728.8
125°	807.3	803.1	799.1	795.7	792.8	790.1	787.3	784.5	787.3	790.1	792.8
127.5°	865.7	862.6	859.6	856.5	853.4	850.3	847.3	844.1	847.3	850.3	853.4
130°	903.3	900.9	898.6	895.6	892.2	888.9	885.4	882.0	885.4	888.9	892.2
132.5°	939.6	937.3	934.8	932.2	929.3	926.5	923.5	920.6	923.5	926.5	929.3
135°	991.0	989.1	987.1	984.5	981.1	977.7	974.2	970.8	974.2	977.7	981.1
137.5°	1037.7	1035.6	1033.4	1031.1	1028.7	1026.3	1023.9	1021.5	1023.9	1026.3	1028.7
140°	1068.3	1065.9	1063.6	1061.6	1059.9	1058.1	1056.4	1054.7	1056.4	1058.1	1059.9
142.5°	1096.2	1093.5	1090.8	1088.6	1087.1	1085.6	1084.0	1082.5	1084.0	1085.6	1087.1
145°	1134.3	1130.6	1127.0	1125.3	1125.5	1125.7	1125.9	1126.1	1125.9	1125.7	1125.5
147.5°	1169.4	1165.9	1162.3	1160.8	1161.6	1162.5	1163.3	1164.2	1163.3	1162.5	1161.6
150°	1190.6	1187.2	1183.8	1182.9	1184.4	1185.8	1187.3	1188.8	1187.3	1185.8	1184.4
152.5°	1210.3	1207.0	1203.8	1203.0	1204.7	1206.3	1208.0	1209.7	1208.0	1206.3	1204.7
155°	1237.7	1235.2	1232.5	1232.2	1234.2	1236.1	1238.0	1240.0	1238.0	1236.1	1234.2
157.5°	1260.9	1259.1	1257.3	1257.2	1258.8	1260.4	1262.1	1263.7	1262.1	1260.4	1258.8
160°	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1276.4	1275.1	1273.7
162.5°	1287.0	1285.9	1284.8	1284.9	1286.1	1287.4	1288.7	1290.0	1288.7	1287.4	1286.1
165°	1302.3	1301.7	1301.1	1301.4	1302.7	1303.9	1305.3	1306.6	1305.3	1303.9	1302.7
167.5°	1314.6	1314.0	1313.4	1313.7	1315.0	1316.4	1317.6	1318.9	1317.6	1316.4	1315.0
170°	1321.1	1320.7	1320.3	1320.7	1322.0	1323.3	1324.5	1325.9	1324.5	1323.3	1322.0
172.5°	1325.8	1325.3	1324.9	1325.3	1326.7	1327.9	1329.2	1330.5	1329.2	1327.9	1326.7
175°	1330.8	1330.4	1329.9	1330.5	1332.0	1333.4	1334.9	1336.5	1334.9	1333.4	1332.0
177.5°	1332.4	1332.3	1332.1	1332.6	1333.8	1335.0	1336.3	1337.5	1336.3	1335.0	1333.8
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1720.5	1717.3	1706.1	1700.2	1690.5	1681.4	1675.5	1678.2	1680.3	1679.2	1677.7
5°	1671.2	1658.5	1639.0	1622.2	1610.2	1588.1	1578.7	1574.1	1570.0	1565.3	1560.6
7.5°	1612.6	1592.5	1564.5	1540.7	1518.1	1490.7	1475.0	1465.6	1456.0	1445.4	1436.0
10°	1570.7	1542.6	1513.1	1479.6	1452.8	1427.9	1405.8	1391.1	1377.8	1364.9	1355.6
12.5°	1526.7	1494.3	1457.8	1412.0	1382.5	1347.1	1343.6	1317.7	1296.8	1288.9	1277.9
15°	1456.8	1411.2	1364.9	1310.7	1287.3	1255.1	1235.0	1214.9	1196.8	1184.1	1180.7
17.5°	1377.4	1318.4	1272.3	1233.3	1194.9	1162.0	1143.5	1127.4	1112.5	1095.5	1093.2
20°	1316.8	1265.8	1215.6	1181.3	1141.9	1108.3	1085.5	1069.4	1056.7	1046.7	1037.9
22.5°	1259.4	1203.7	1157.6	1120.2	1081.3	1054.2	1036.2	1020.7	1010.1	999.0	990.8
25°	1167.3	1123.8	1073.5	1031.3	999.1	981.7	966.9	953.5	946.8	939.5	930.1
27.5°	1086.7	1038.3	991.4	958.7	930.4	914.9	904.5	895.3	889.1	884.7	879.4
30°	1030.0	981.0	944.1	912.0	888.6	873.1	866.5	861.1	853.7	851.0	848.4
32.5°	975.2	931.2	899.7	871.8	849.4	839.4	833.2	828.4	822.6	819.9	814.6
35°	898.0	861.1	830.2	814.9	796.8	788.0	783.4	776.7	771.2	768.6	767.9
37.5°	825.2	793.1	772.8	753.1	745.4	740.0	733.7	729.0	727.4	727.0	726.4
40°	778.0	751.8	733.8	717.7	714.3	706.3	700.9	696.9	696.9	697.6	696.9
42.5°	735.1	711.7	695.7	681.8	677.8	673.1	667.7	667.4	668.5	670.8	668.5
45°	670.0	653.4	642.0	635.2	627.8	623.2	622.5	624.5	625.2	625.9	627.8
47.5°	610.4	599.2	588.9	581.5	578.2	577.4	576.6	580.2	583.4	584.6	587.6
50°	574.9	562.2	553.5	548.8	546.1	544.8	546.1	550.2	552.8	556.1	558.2
52.5°	535.2	526.2	520.3	516.6	515.5	516.3	516.6	521.2	525.5	526.6	527.7
55°	480.5	473.7	472.4	466.4	469.1	468.4	471.7	474.4	478.5	482.5	483.1
57.5°	425.8	420.4	416.8	417.4	418.2	421.1	423.9	428.6	432.9	437.2	437.6
60°	389.3	386.7	384.7	384.7	386.0	390.0	393.3	398.0	400.7	403.4	405.4
62.5°	356.1	353.5	351.4	352.4	356.0	358.4	362.2	364.8	367.5	370.1	371.1
65°	303.6	302.3	304.3	305.6	306.2	309.6	314.3	316.3	318.9	320.3	325.0
67.5°	255.2	255.4	255.2	257.0	260.9	261.8	266.2	270.8	271.4	274.0	277.0
70°	222.5	223.8	225.2	226.5	229.8	231.2	234.5	236.5	239.2	241.3	243.3
72.5°	192.5	192.7	194.1	193.8	196.6	199.5	202.4	204.4	207.0	209.6	211.6
75°	148.0	148.0	149.5	150.1	153.5	156.8	156.1	157.4	160.2	162.8	164.2
77.5°	108.2	106.6	108.2	108.9	109.9	112.7	113.2	115.1	118.2	117.2	118.8
80°	82.4	80.4	82.4	83.1	83.1	86.4	86.4	87.8	89.8	87.8	89.8
82.5°	58.9	57.9	59.4	59.5	60.6	60.7	61.8	62.0	64.0	63.1	64.0
85°	29.5	28.8	29.5	28.8	29.5	30.2	30.2	29.5	29.5	30.8	28.8
87.5°	11.2	11.1	10.9	11.2	11.0	10.8	10.5	10.7	10.9	10.1	10.2
90°	10.4	12.4	14.1	15.9	17.6	19.3	20.4	21.4	22.5	23.6	24.3
92.5°	18.7	19.0	19.8	20.7	21.5	22.4	22.9	23.5	24.0	24.6	25.0
95°	34.4	31.6	33.1	34.6	36.2	37.7	38.7	39.8	40.9	41.9	42.3
97.5°	44.7	36.5	40.0	43.4	46.9	50.4	51.2	52.1	52.9	53.8	54.3
100°	53.3	40.4	44.0	47.7	51.4	55.0	56.8	58.5	60.2	61.9	62.9
102.5°	196.8	178.5	148.0	117.5	87.1	56.6	58.8	61.0	63.2	65.4	66.9
105°	319.1	293.1	234.5	175.9	117.4	58.9	61.2	63.6	65.9	68.3	69.9
107.5°	395.8	363.2	293.1	222.8	152.6	82.4	80.0	77.6	75.2	72.8	72.0
110°	445.5	416.8	354.8	292.9	230.9	168.8	147.4	125.9	104.5	83.1	72.8



TEST NUMBER: P331567-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.8	487.2	471.9	456.6	441.2	426.0	347.7	269.4	191.3	113.0	74.2
115°	569.5	573.9	579.3	584.6	590.1	595.4	496.0	396.8	297.5	198.2	140.9
117.5°	640.9	644.7	648.4	652.1	655.8	659.4	635.4	611.4	587.4	563.4	526.0
120°	688.3	691.9	695.7	699.6	703.5	707.3	709.9	712.5	715.0	717.6	704.4
122.5°	732.3	736.1	740.2	744.5	748.6	752.9	754.4	756.0	757.5	759.0	757.0
125°	795.7	799.1	803.1	807.3	811.3	815.4	816.9	818.4	819.9	821.4	822.4
127.5°	856.5	859.6	862.6	865.7	868.7	871.7	873.9	876.2	878.3	880.5	881.6
130°	895.6	898.6	900.9	903.3	905.6	908.1	910.4	912.7	915.1	917.5	918.6
132.5°	932.2	934.8	937.3	939.6	941.9	944.3	946.3	948.4	950.4	952.4	953.3
135°	984.5	987.1	989.1	991.0	992.9	994.9	997.0	999.2	1001.3	1003.4	1004.3
137.5°	1031.1	1033.4	1035.6	1037.7	1040.0	1042.2	1044.3	1046.3	1048.4	1050.6	1051.3
140°	1061.6	1063.6	1065.9	1068.3	1070.7	1073.1	1075.0	1076.9	1078.8	1080.8	1081.2
142.5°	1088.6	1090.8	1093.5	1096.2	1098.9	1101.6	1103.4	1105.1	1106.9	1108.6	1108.9
145°	1125.3	1127.0	1130.6	1134.3	1137.9	1141.6	1143.1	1144.6	1146.1	1147.5	1147.8
147.5°	1160.8	1162.3	1165.9	1169.4	1173.1	1176.7	1177.8	1178.9	1180.0	1181.1	1181.2
150°	1182.9	1183.8	1187.2	1190.6	1194.1	1197.5	1198.8	1200.1	1201.3	1202.6	1202.7
152.5°	1203.0	1203.8	1207.0	1210.3	1213.6	1216.8	1218.1	1219.4	1220.6	1221.9	1221.9
155°	1232.2	1232.5	1235.2	1237.7	1240.3	1242.8	1244.2	1245.5	1246.7	1248.0	1247.8
157.5°	1257.2	1257.3	1259.1	1260.9	1262.6	1264.5	1266.0	1267.4	1268.9	1270.3	1270.2
160°	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1278.9	1280.2	1281.4	1282.7	1282.6
162.5°	1284.9	1284.8	1285.9	1287.0	1288.1	1289.2	1290.6	1292.1	1293.5	1295.1	1294.8
165°	1301.4	1301.1	1301.7	1302.3	1303.0	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7
167.5°	1313.7	1313.4	1314.0	1314.6	1315.2	1315.9	1317.3	1318.8	1320.3	1321.8	1321.6
170°	1320.7	1320.3	1320.7	1321.1	1321.6	1322.0	1323.5	1325.0	1326.5	1328.0	1327.8
172.5°	1325.3	1324.9	1325.3	1325.8	1326.2	1326.7	1328.2	1329.6	1331.1	1332.6	1332.4
175°	1330.5	1329.9	1330.4	1330.8	1331.2	1331.6	1333.1	1334.6	1336.2	1337.7	1337.4
177.5°	1332.6	1332.1	1332.3	1332.4	1332.6	1332.8	1334.0	1335.2	1336.4	1337.6	1337.5
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331567-840

CATALOG NUMBER: S122DIW-S865D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1672.2	1671.2	1671.2	1666.4	1671.2	1671.2	1672.2	1677.7	1679.2	1680.3	1678.2
5°	1551.3	1549.2	1545.9	1549.2	1545.9	1549.2	1551.3	1560.6	1565.3	1570.0	1574.1
7.5°	1431.6	1423.5	1422.3	1414.4	1422.3	1423.5	1431.6	1436.0	1445.4	1456.0	1465.6
10°	1344.2	1338.9	1338.2	1325.4	1338.2	1338.9	1344.2	1355.6	1364.9	1377.8	1391.1
12.5°	1277.8	1264.9	1267.4	1260.0	1267.4	1264.9	1277.8	1277.9	1288.9	1296.8	1317.7
15°	1162.7	1162.7	1159.9	1148.5	1159.9	1162.7	1162.7	1180.7	1184.1	1196.8	1214.9
17.5°	1079.9	1078.5	1072.2	1075.4	1072.2	1078.5	1079.9	1093.2	1095.5	1112.5	1127.4
20°	1030.6	1026.6	1018.5	1018.5	1018.5	1026.6	1030.6	1037.9	1046.7	1056.7	1069.4
22.5°	984.0	983.7	975.1	977.8	975.1	983.7	984.0	990.8	999.0	1010.1	1020.7
25°	929.4	924.0	920.1	922.0	920.1	924.0	929.4	930.1	939.5	946.8	953.5
27.5°	877.7	874.7	874.4	869.0	874.4	874.7	877.7	879.4	884.7	889.1	895.3
30°	847.7	841.0	842.3	839.0	842.3	841.0	847.7	848.4	851.0	853.7	861.1
32.5°	813.3	810.9	809.6	806.8	809.6	810.9	813.3	814.6	819.9	822.6	828.4
35°	766.6	767.3	763.9	765.3	763.9	767.3	766.6	767.9	768.6	771.2	776.7
37.5°	725.7	727.8	726.3	726.7	726.3	727.8	725.7	726.4	727.0	727.4	729.0
40°	698.9	698.9	698.9	700.9	698.9	698.9	698.9	696.9	697.6	696.9	696.9
42.5°	673.2	672.1	671.1	670.9	671.1	672.1	673.2	668.5	670.8	668.5	667.4
45°	629.2	631.3	631.9	628.5	631.9	631.3	629.2	627.8	625.9	625.2	624.5
47.5°	589.5	589.7	589.5	592.4	589.5	589.7	589.5	587.6	584.6	583.4	580.2
50°	561.6	560.2	561.6	560.2	561.6	560.2	561.6	558.2	556.1	552.8	550.2
52.5°	532.1	532.3	531.5	531.3	531.5	532.3	532.1	527.7	526.6	525.5	521.2
55°	485.8	487.2	486.5	486.5	486.5	487.2	485.8	483.1	482.5	478.5	474.4
57.5°	438.0	439.2	440.1	437.2	440.1	439.2	438.0	437.6	437.2	432.9	428.6
60°	404.8	408.1	407.4	406.1	407.4	408.1	404.8	405.4	403.4	400.7	398.0
62.5°	374.2	375.4	375.3	375.0	375.3	375.4	374.2	371.1	370.1	367.5	364.8
65°	327.0	328.3	326.3	328.3	326.3	328.3	327.0	325.0	320.3	318.9	316.3
67.5°	276.2	276.6	278.1	279.0	278.1	276.6	276.2	277.0	274.0	271.4	270.8
70°	244.6	243.9	245.9	247.9	245.9	243.9	244.6	243.3	241.3	239.2	236.5
72.5°	211.4	212.8	212.2	213.6	212.2	212.8	211.4	211.6	209.6	207.0	204.4
75°	162.8	164.8	164.2	166.2	164.2	164.8	162.8	164.2	162.8	160.2	157.4
77.5°	117.6	118.0	117.6	118.8	117.6	118.0	117.6	118.8	117.2	118.2	115.1
80°	89.8	88.5	87.2	89.8	87.2	88.5	89.8	89.8	87.8	89.8	87.8
82.5°	62.4	63.2	61.9	61.9	61.9	63.2	62.4	64.0	63.1	64.0	62.0
85°	28.8	28.2	26.8	26.8	26.8	28.2	28.8	28.8	30.8	29.5	29.5
87.5°	10.3	9.9	10.0	9.5	10.0	9.9	10.3	10.2	10.1	10.9	10.7
90°	24.7	25.1	25.7	26.1	25.7	25.1	24.7	24.3	23.6	22.5	21.4
92.5°	25.2	25.5	25.8	26.1	25.8	25.5	25.2	25.0	24.6	24.0	23.5
95°	42.1	41.9	41.7	41.5	41.7	41.9	42.1	42.3	41.9	40.9	39.8
97.5°	54.6	54.8	55.1	55.3	55.1	54.8	54.6	54.3	53.8	52.9	52.1
100°	63.3	63.8	64.2	64.6	64.2	63.8	63.3	62.9	61.9	60.2	58.5
102.5°	67.5	68.1	68.7	69.3	68.7	68.1	67.5	66.9	65.4	63.2	61.0
105°	70.8	71.6	72.5	73.3	72.5	71.6	70.8	69.9	68.3	65.9	63.6
107.5°	72.9	73.7	74.6	75.4	74.6	73.7	72.9	72.0	72.8	75.2	77.6
110°	73.6	74.5	75.3	76.2	75.3	74.5	73.6	72.8	83.1	104.5	125.9



TEST NUMBER: P331567-840

CATALOG NUMBER: S122DIW-S865D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	74.9	75.6	76.3	77.1	76.3	75.6	74.9	74.2	113.0	191.3	269.4
115°	125.4	110.0	94.5	79.2	94.5	110.0	125.4	140.9	198.2	297.5	396.8
117.5°	475.2	424.5	373.9	323.1	373.9	424.5	475.2	526.0	563.4	587.4	611.4
120°	675.5	646.5	617.5	588.7	617.5	646.5	675.5	704.4	717.6	715.0	712.5
122.5°	751.3	745.8	740.1	734.6	740.1	745.8	751.3	757.0	759.0	757.5	756.0
125°	823.1	823.7	824.4	825.1	824.4	823.7	823.1	822.4	821.4	819.9	818.4
127.5°	881.8	881.9	882.0	882.1	882.0	881.9	881.8	881.6	880.5	878.3	876.2
130°	918.3	918.1	917.9	917.7	917.9	918.1	918.3	918.6	917.5	915.1	912.7
132.5°	953.0	952.8	952.6	952.4	952.6	952.8	953.0	953.3	952.4	950.4	948.4
135°	1003.9	1003.4	1003.0	1002.6	1003.0	1003.4	1003.9	1004.3	1003.4	1001.3	999.2
137.5°	1050.6	1049.8	1049.0	1048.3	1049.0	1049.8	1050.6	1051.3	1050.6	1048.4	1046.3
140°	1080.2	1079.0	1077.9	1076.9	1077.9	1079.0	1080.2	1081.2	1080.8	1078.8	1076.9
142.5°	1107.9	1106.8	1105.8	1104.7	1105.8	1106.8	1107.9	1108.9	1108.6	1106.9	1105.1
145°	1146.7	1145.6	1144.6	1143.5	1144.6	1145.6	1146.7	1147.8	1147.5	1146.1	1144.6
147.5°	1180.3	1179.4	1178.5	1177.6	1178.5	1179.4	1180.3	1181.2	1181.1	1180.0	1178.9
150°	1201.7	1200.6	1199.5	1198.5	1199.5	1200.6	1201.7	1202.7	1202.6	1201.3	1200.1
152.5°	1220.5	1219.1	1217.7	1216.3	1217.7	1219.1	1220.5	1221.9	1221.9	1220.6	1219.4
155°	1246.1	1244.4	1242.6	1240.9	1242.6	1244.4	1246.1	1247.8	1248.0	1246.7	1245.5
157.5°	1268.5	1266.9	1265.2	1263.5	1265.2	1266.9	1268.5	1270.2	1270.3	1268.9	1267.4
160°	1281.1	1279.6	1278.2	1276.7	1278.2	1279.6	1281.1	1282.6	1282.7	1281.4	1280.2
162.5°	1292.9	1291.1	1289.3	1287.5	1289.3	1291.1	1292.9	1294.8	1295.1	1293.5	1292.1
165°	1308.2	1306.7	1305.1	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7	1308.2	1306.7
167.5°	1319.7	1317.8	1315.9	1313.9	1315.9	1317.8	1319.7	1321.6	1321.8	1320.3	1318.8
170°	1325.9	1323.9	1322.0	1320.1	1322.0	1323.9	1325.9	1327.8	1328.0	1326.5	1325.0
172.5°	1330.5	1328.6	1326.7	1324.7	1326.7	1328.6	1330.5	1332.4	1332.6	1331.1	1329.6
175°	1335.1	1333.0	1330.9	1328.8	1330.9	1333.0	1335.1	1337.4	1337.7	1336.2	1334.6
177.5°	1335.8	1334.3	1332.8	1331.3	1332.8	1334.3	1335.8	1337.5	1337.6	1336.4	1335.2
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1675.5	1681.4	1690.5	1700.2	1706.1	1717.3	1720.5	1725.9	1730.7	1742.0	1753.7
5°	1578.7	1588.1	1610.2	1622.2	1639.0	1658.5	1671.2	1684.7	1699.4	1724.8	1748.3
7.5°	1475.0	1490.7	1518.1	1540.7	1564.5	1592.5	1612.6	1639.0	1661.0	1697.0	1731.2
10°	1405.8	1427.9	1452.8	1479.6	1513.1	1542.6	1570.7	1604.2	1631.0	1673.9	1714.1
12.5°	1343.6	1347.1	1382.5	1412.0	1457.8	1494.3	1526.7	1569.9	1596.2	1647.1	1689.4
15°	1235.0	1255.1	1287.3	1310.7	1364.9	1411.2	1456.8	1501.7	1531.9	1594.8	1650.4
17.5°	1143.5	1162.0	1194.9	1233.3	1272.3	1318.4	1377.4	1424.6	1465.6	1537.6	1603.4
20°	1085.5	1108.3	1141.9	1181.3	1215.6	1265.8	1316.8	1371.0	1415.2	1496.3	1573.4
22.5°	1036.2	1054.2	1081.3	1120.2	1157.6	1203.7	1259.4	1318.5	1364.8	1452.4	1530.5
25°	966.9	981.7	999.1	1031.3	1073.5	1123.8	1167.3	1232.3	1300.0	1381.7	1476.2
27.5°	904.5	914.9	930.4	958.7	991.4	1038.3	1086.7	1148.4	1216.5	1305.3	1404.9
30°	866.5	873.1	888.6	912.0	944.1	981.0	1030.0	1088.9	1158.6	1248.4	1347.6
32.5°	833.2	839.4	849.4	871.8	899.7	931.2	975.2	1034.2	1100.7	1188.9	1298.8
35°	783.4	788.0	796.8	814.9	830.2	861.1	898.0	951.5	1013.8	1098.3	1212.2
37.5°	733.7	740.0	745.4	753.1	772.8	793.1	825.2	870.4	931.6	1016.8	1125.4
40°	700.9	706.3	714.3	717.7	733.8	751.8	778.0	819.5	881.2	958.9	1064.8
42.5°	667.7	673.1	677.8	681.8	695.7	711.7	735.1	770.7	825.5	901.0	1005.8
45°	622.5	623.2	627.8	635.2	642.0	653.4	670.0	700.9	743.2	814.2	909.3
47.5°	576.6	577.4	578.2	581.5	588.9	599.2	610.4	635.4	673.2	729.8	822.4
50°	546.1	544.8	546.1	548.8	553.5	562.2	574.9	593.0	623.9	676.8	761.9
52.5°	516.6	516.3	515.5	516.6	520.3	526.2	535.2	550.7	578.2	626.9	701.9
55°	471.7	468.4	469.1	466.4	472.4	473.7	480.5	493.2	517.4	550.8	621.2
57.5°	423.9	421.1	418.2	417.4	416.8	420.4	425.8	435.9	454.3	483.6	540.8
60°	393.3	390.0	386.0	384.7	384.7	386.7	389.3	396.7	414.1	440.3	487.2
62.5°	362.2	358.4	356.0	352.4	351.4	353.5	356.1	361.3	374.0	398.4	438.9
65°	314.3	309.6	306.2	305.6	304.3	302.3	303.6	308.9	318.9	338.4	370.5
67.5°	266.2	261.8	260.9	257.0	255.2	255.4	255.2	259.7	265.8	282.6	306.5
70°	234.5	231.2	229.8	226.5	225.2	223.8	222.5	226.5	232.6	246.6	267.4
72.5°	202.4	199.5	196.6	193.8	194.1	192.7	192.5	194.9	199.9	212.8	228.7
75°	156.1	156.8	153.5	150.1	149.5	148.0	148.0	150.1	152.1	162.2	174.9
77.5°	113.2	112.7	109.9	108.9	108.2	106.6	108.2	109.5	110.6	117.2	126.6
80°	86.4	86.4	83.1	83.1	82.4	80.4	82.4	81.1	83.7	90.5	97.1
82.5°	61.8	60.7	60.6	59.5	59.4	57.9	58.9	60.2	61.2	65.8	69.8
85°	30.2	30.2	29.5	28.8	29.5	28.8	29.5	30.2	30.8	32.8	36.2
87.5°	10.5	10.8	11.0	11.2	10.9	11.1	11.2	11.2	11.8	11.9	12.0
90°	20.4	19.3	17.6	15.9	14.1	12.4	10.4	8.1	5.7	3.3	1.0
92.5°	22.9	22.4	21.5	20.7	19.8	19.0	18.7	18.9	19.1	19.3	19.5
95°	38.7	37.7	36.2	34.6	33.1	31.6	34.4	41.5	48.6	55.6	62.7
97.5°	51.2	50.4	46.9	43.4	40.0	36.5	44.7	64.6	84.6	104.5	124.5
100°	56.8	55.0	51.4	47.7	44.0	40.4	53.3	82.7	112.0	141.4	170.8
102.5°	58.8	56.6	87.1	117.5	148.0	178.5	196.8	203.1	209.3	215.5	221.8
105°	61.2	58.9	117.4	175.9	234.5	293.1	319.1	312.7	306.2	299.8	293.4
107.5°	80.0	82.4	152.6	222.8	293.1	363.2	395.8	390.5	385.4	380.2	375.0
110°	147.4	168.8	230.9	292.9	354.8	416.8	445.5	441.0	436.5	432.0	427.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	347.7	426.0	441.2	456.6	471.9	487.2	492.8	488.9	484.8	480.9	476.9
115°	496.0	595.4	590.1	584.6	579.3	573.9	569.5	565.8	562.2	558.5	554.8
117.5°	635.4	659.4	655.8	652.1	648.4	644.7	640.9	636.7	632.7	628.6	624.5
120°	709.9	707.3	703.5	699.6	695.7	691.9	688.3	685.1	681.9	678.7	675.5
122.5°	754.4	752.9	748.6	744.5	740.2	736.1	732.3	728.8	725.5	722.1	718.7
125°	816.9	815.4	811.3	807.3	803.1	799.1	795.7	792.8	790.1	787.3	784.5
127.5°	873.9	871.7	868.7	865.7	862.6	859.6	856.5	853.4	850.3	847.3	844.1
130°	910.4	908.1	905.6	903.3	900.9	898.6	895.6	892.2	888.9	885.4	882.0
132.5°	946.3	944.3	941.9	939.6	937.3	934.8	932.2	929.3	926.5	923.5	920.6
135°	997.0	994.9	992.9	991.0	989.1	987.1	984.5	981.1	977.7	974.2	970.8
137.5°	1044.3	1042.2	1040.0	1037.7	1035.6	1033.4	1031.1	1028.7	1026.3	1023.9	1021.5
140°	1075.0	1073.1	1070.7	1068.3	1065.9	1063.6	1061.6	1059.9	1058.1	1056.4	1054.7
142.5°	1103.4	1101.6	1098.9	1096.2	1093.5	1090.8	1088.6	1087.1	1085.6	1084.0	1082.5
145°	1143.1	1141.6	1137.9	1134.3	1130.6	1127.0	1125.3	1125.5	1125.7	1125.9	1126.1
147.5°	1177.8	1176.7	1173.1	1169.4	1165.9	1162.3	1160.8	1161.6	1162.5	1163.3	1164.2
150°	1198.8	1197.5	1194.1	1190.6	1187.2	1183.8	1182.9	1184.4	1185.8	1187.3	1188.8
152.5°	1218.1	1216.8	1213.6	1210.3	1207.0	1203.8	1203.0	1204.7	1206.3	1208.0	1209.7
155°	1244.2	1242.8	1240.3	1237.7	1235.2	1232.5	1232.2	1234.2	1236.1	1238.0	1240.0
157.5°	1266.0	1264.5	1262.6	1260.9	1259.1	1257.3	1257.2	1258.8	1260.4	1262.1	1263.7
160°	1278.9	1277.6	1276.4	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6
162.5°	1290.6	1289.2	1288.1	1287.0	1285.9	1284.8	1284.9	1286.1	1287.4	1288.7	1290.0
165°	1305.1	1303.6	1303.0	1302.3	1301.7	1301.1	1301.4	1302.7	1303.9	1305.3	1306.6
167.5°	1317.3	1315.9	1315.2	1314.6	1314.0	1313.4	1313.7	1315.0	1316.4	1317.6	1318.9
170°	1323.5	1322.0	1321.6	1321.1	1320.7	1320.3	1320.7	1322.0	1323.3	1324.5	1325.9
172.5°	1328.2	1326.7	1326.2	1325.8	1325.3	1324.9	1325.3	1326.7	1327.9	1329.2	1330.5
175°	1333.1	1331.6	1331.2	1330.8	1330.4	1329.9	1330.5	1332.0	1333.4	1334.9	1336.5
177.5°	1334.0	1332.8	1332.6	1332.4	1332.3	1332.1	1332.6	1333.8	1335.0	1336.3	1337.5
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1752.7	1755.3	1763.9	1772.5	1782.2	1784.8	1789.2	1785.4	1784.3	1794.5	1802.0
5°	1757.7	1769.7	1793.2	1814.6	1832.7	1845.4	1858.9	1864.2	1874.2	1888.3	1905.7
7.5°	1752.0	1775.4	1812.3	1843.6	1877.6	1902.1	1921.3	1937.6	1957.5	1984.2	2013.3
10°	1745.6	1777.1	1822.0	1860.2	1901.7	1933.2	1959.3	1984.8	2014.3	2051.1	2089.3
12.5°	1733.8	1771.2	1827.4	1872.5	1925.8	1956.8	1992.1	2047.0	2078.6	2130.0	2183.7
15°	1710.1	1751.6	1830.0	1885.6	1945.9	2004.9	2069.9	2122.2	2174.4	2204.6	2280.4
17.5°	1674.9	1735.9	1822.6	1887.5	1964.2	2057.1	2130.1	2189.3	2249.7	2298.6	2336.5
20°	1646.4	1712.7	1811.9	1889.7	1980.7	2080.6	2164.4	2224.7	2276.9	2317.8	2341.3
22.5°	1610.5	1693.9	1790.5	1881.6	1997.9	2096.7	2184.7	2232.2	2275.9	2295.8	2304.8
25°	1554.0	1654.5	1763.7	1874.9	2006.3	2110.8	2191.2	2220.0	2232.7	2213.3	2181.1
27.5°	1493.0	1605.0	1732.7	1862.3	2001.1	2101.6	2159.3	2154.7	2133.1	2070.3	2020.0
30°	1447.4	1570.7	1708.1	1849.5	1988.8	2086.7	2120.2	2086.7	2037.7	1967.4	1895.7
32.5°	1399.7	1527.3	1681.8	1831.2	1966.3	2052.3	2059.6	2002.0	1926.2	1846.2	1756.9
35°	1327.5	1465.5	1632.3	1790.5	1918.4	1972.8	1940.6	1838.8	1749.0	1639.7	1517.7
37.5°	1245.9	1398.3	1565.6	1730.8	1846.7	1861.0	1781.1	1673.9	1547.2	1418.9	1275.4
40°	1184.8	1346.3	1518.4	1685.3	1787.8	1773.0	1671.2	1553.3	1402.5	1245.7	1112.4
42.5°	1130.0	1291.5	1466.9	1630.6	1712.7	1672.2	1553.3	1408.6	1246.5	1098.8	976.7
45°	1035.3	1201.4	1381.1	1539.2	1586.1	1513.1	1355.6	1194.8	1035.3	912.0	815.5
47.5°	943.3	1107.6	1285.5	1424.5	1441.1	1342.8	1170.7	1005.3	868.2	767.8	699.7
50°	875.9	1040.7	1216.9	1340.9	1335.4	1216.9	1040.0	882.5	767.9	686.8	641.3
52.5°	815.3	971.0	1140.2	1252.9	1224.6	1095.2	926.3	786.6	692.4	628.9	587.6
55°	721.0	865.1	1025.9	1116.4	1064.1	920.7	778.0	665.4	595.7	548.2	515.9
57.5°	627.4	762.5	900.2	955.9	898.2	765.8	646.8	565.1	512.7	477.5	456.6
60°	569.6	687.5	810.1	858.4	789.4	671.5	577.6	504.6	462.3	433.5	414.8
62.5°	511.7	617.3	733.0	759.2	696.1	596.4	513.3	452.6	417.9	392.2	374.6
65°	432.9	519.3	607.1	624.5	566.2	489.2	423.5	384.0	353.1	334.4	320.3
67.5°	355.0	424.4	486.7	500.7	449.6	396.2	348.7	314.3	293.4	277.8	265.9
70°	308.9	363.9	414.8	426.2	385.3	337.7	301.5	274.1	255.3	241.9	230.6
72.5°	260.1	306.0	348.3	356.0	322.6	286.3	256.5	234.9	218.3	209.7	198.8
75°	199.0	225.8	258.6	260.6	238.5	216.4	193.7	179.6	170.9	160.2	154.8
77.5°	140.5	161.5	180.3	183.9	170.8	155.7	143.0	131.9	124.5	119.6	114.6
80°	107.2	124.0	132.0	136.7	127.3	116.6	109.3	101.9	97.1	93.8	90.5
82.5°	76.6	86.9	94.5	98.1	93.0	86.5	79.2	75.0	71.4	68.6	67.5
85°	38.9	43.5	48.3	49.6	48.3	45.5	41.5	41.5	39.5	38.9	38.9
87.5°	14.0	16.7	17.2	19.2	18.6	18.9	19.3	19.1	18.9	18.6	18.2
90°	3.3	5.7	8.1	10.4	12.4	14.1	15.9	17.6	19.3	20.4	21.4
92.5°	19.3	19.1	18.9	18.7	19.0	19.8	20.7	21.5	22.4	22.9	23.5
95°	55.6	48.6	41.5	34.4	31.6	33.1	34.6	36.2	37.7	38.7	39.8
97.5°	104.5	84.6	64.6	44.7	36.5	40.0	43.4	46.9	50.4	51.2	52.1
100°	141.4	112.0	82.7	53.3	40.4	44.0	47.7	51.4	55.0	56.8	58.5
102.5°	215.5	209.3	203.1	196.8	178.5	148.0	117.5	87.1	56.6	58.8	61.0
105°	299.8	306.2	312.7	319.1	293.1	234.5	175.9	117.4	58.9	61.2	63.6
107.5°	380.2	385.4	390.5	395.8	363.2	293.1	222.8	152.6	82.4	80.0	77.6
110°	432.0	436.5	441.0	445.5	416.8	354.8	292.9	230.9	168.8	147.4	125.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	480.9	484.8	488.9	492.8	487.2	471.9	456.6	441.2	426.0	347.7	269.4
115°	558.5	562.2	565.8	569.5	573.9	579.3	584.6	590.1	595.4	496.0	396.8
117.5°	628.6	632.7	636.7	640.9	644.7	648.4	652.1	655.8	659.4	635.4	611.4
120°	678.7	681.9	685.1	688.3	691.9	695.7	699.6	703.5	707.3	709.9	712.5
122.5°	722.1	725.5	728.8	732.3	736.1	740.2	744.5	748.6	752.9	754.4	756.0
125°	787.3	790.1	792.8	795.7	799.1	803.1	807.3	811.3	815.4	816.9	818.4
127.5°	847.3	850.3	853.4	856.5	859.6	862.6	865.7	868.7	871.7	873.9	876.2
130°	885.4	888.9	892.2	895.6	898.6	900.9	903.3	905.6	908.1	910.4	912.7
132.5°	923.5	926.5	929.3	932.2	934.8	937.3	939.6	941.9	944.3	946.3	948.4
135°	974.2	977.7	981.1	984.5	987.1	989.1	991.0	992.9	994.9	997.0	999.2
137.5°	1023.9	1026.3	1028.7	1031.1	1033.4	1035.6	1037.7	1040.0	1042.2	1044.3	1046.3
140°	1056.4	1058.1	1059.9	1061.6	1063.6	1065.9	1068.3	1070.7	1073.1	1075.0	1076.9
142.5°	1084.0	1085.6	1087.1	1088.6	1090.8	1093.5	1096.2	1098.9	1101.6	1103.4	1105.1
145°	1125.9	1125.7	1125.5	1125.3	1127.0	1130.6	1134.3	1137.9	1141.6	1143.1	1144.6
147.5°	1163.3	1162.5	1161.6	1160.8	1162.3	1165.9	1169.4	1173.1	1176.7	1177.8	1178.9
150°	1187.3	1185.8	1184.4	1182.9	1183.8	1187.2	1190.6	1194.1	1197.5	1198.8	1200.1
152.5°	1208.0	1206.3	1204.7	1203.0	1203.8	1207.0	1210.3	1213.6	1216.8	1218.1	1219.4
155°	1238.0	1236.1	1234.2	1232.2	1232.5	1235.2	1237.7	1240.3	1242.8	1244.2	1245.5
157.5°	1262.1	1260.4	1258.8	1257.2	1257.3	1259.1	1260.9	1262.6	1264.5	1266.0	1267.4
160°	1276.4	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1278.9	1280.2
162.5°	1288.7	1287.4	1286.1	1284.9	1284.8	1285.9	1287.0	1288.1	1289.2	1290.6	1292.1
165°	1305.3	1303.9	1302.7	1301.4	1301.1	1301.7	1302.3	1303.0	1303.6	1305.1	1306.7
167.5°	1317.6	1316.4	1315.0	1313.7	1313.4	1314.0	1314.6	1315.2	1315.9	1317.3	1318.8
170°	1324.5	1323.3	1322.0	1320.7	1320.3	1320.7	1321.1	1321.6	1322.0	1323.5	1325.0
172.5°	1329.2	1327.9	1326.7	1325.3	1324.9	1325.3	1325.8	1326.2	1326.7	1328.2	1329.6
175°	1334.9	1333.4	1332.0	1330.5	1329.9	1330.4	1330.8	1331.2	1331.6	1333.1	1334.6
177.5°	1336.3	1335.0	1333.8	1332.6	1332.1	1332.3	1332.4	1332.6	1332.8	1334.0	1335.2
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1808.5	1815.9	1815.9	1817.1	1825.6	1824.5	1824.0
5°	1924.5	1935.9	1937.2	1949.3	1957.3	1954.7	1947.3
7.5°	2034.0	2055.2	2071.2	2080.2	2090.8	2097.4	2094.5
10°	2120.8	2151.6	2170.4	2183.1	2198.6	2210.0	2205.9
12.5°	2199.7	2236.3	2262.1	2283.9	2285.9	2300.6	2290.7
15°	2322.6	2361.4	2365.4	2381.5	2394.3	2392.9	2393.6
17.5°	2363.2	2375.6	2378.1	2378.5	2378.7	2374.0	2363.8
20°	2348.6	2344.0	2332.6	2323.9	2308.5	2306.4	2293.1
22.5°	2280.1	2265.2	2236.6	2217.8	2193.7	2187.5	2183.7
25°	2145.0	2112.1	2066.6	2023.0	2010.9	1987.5	1994.2
27.5°	1959.6	1908.4	1859.1	1823.7	1791.7	1756.6	1766.7
30°	1829.4	1771.7	1702.0	1648.4	1614.3	1580.7	1574.7
32.5°	1673.9	1589.4	1511.8	1464.5	1412.2	1391.0	1367.8
35°	1405.8	1323.4	1246.4	1180.0	1141.9	1112.4	1085.5
37.5°	1164.8	1069.9	1007.6	953.9	926.3	909.5	913.7
40°	1015.2	932.1	886.6	845.7	820.2	808.1	810.8
42.5°	894.0	831.8	794.4	766.3	748.3	741.6	740.0
45°	756.5	721.6	690.8	674.8	666.1	658.7	654.0
47.5°	662.7	634.3	616.9	607.3	599.8	592.2	592.1
50°	606.4	587.6	575.6	565.5	559.6	554.2	558.9
52.5°	563.5	546.4	534.3	525.3	523.1	518.3	518.2
55°	499.9	486.5	477.8	469.7	465.7	463.0	459.7
57.5°	442.0	429.3	421.2	416.2	408.5	405.8	404.8
60°	400.7	390.6	382.6	375.9	372.5	367.2	367.2
62.5°	362.6	352.6	345.1	340.0	334.5	332.3	333.0
65°	307.6	299.5	292.2	286.8	285.5	281.4	282.8
67.5°	256.9	251.6	243.8	240.9	238.3	236.1	234.5
70°	223.2	217.8	213.8	209.7	207.7	207.7	207.7
72.5°	194.7	188.3	185.9	180.8	182.0	179.9	177.7
75°	150.8	146.7	144.7	142.7	139.4	139.4	139.4
77.5°	111.0	109.8	107.3	105.2	104.4	103.7	104.0
80°	85.7	85.1	83.7	83.7	82.4	81.8	80.4
82.5°	65.9	64.2	63.4	62.8	62.6	62.4	62.2
85°	37.6	36.2	36.2	36.9	35.5	35.5	36.2
87.5°	19.0	19.2	18.8	18.9	19.5	19.1	19.2
90°	22.5	23.6	24.3	24.7	25.1	25.7	26.1
92.5°	24.0	24.6	25.0	25.2	25.5	25.8	26.1
95°	40.9	41.9	42.3	42.1	41.9	41.7	41.5
97.5°	52.9	53.8	54.3	54.6	54.8	55.1	55.3
100°	60.2	61.9	62.9	63.3	63.8	64.2	64.6
102.5°	63.2	65.4	66.9	67.5	68.1	68.7	69.3
105°	65.9	68.3	69.9	70.8	71.6	72.5	73.3
107.5°	75.2	72.8	72.0	72.9	73.7	74.6	75.4
110°	104.5	83.1	72.8	73.6	74.5	75.3	76.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	191.3	113.0	74.2	74.9	75.6	76.3	77.1
115°	297.5	198.2	140.9	125.4	110.0	94.5	79.2
117.5°	587.4	563.4	526.0	475.2	424.5	373.9	323.1
120°	715.0	717.6	704.4	675.5	646.5	617.5	588.7
122.5°	757.5	759.0	757.0	751.3	745.8	740.1	734.6
125°	819.9	821.4	822.4	823.1	823.7	824.4	825.1
127.5°	878.3	880.5	881.6	881.8	881.9	882.0	882.1
130°	915.1	917.5	918.6	918.3	918.1	917.9	917.7
132.5°	950.4	952.4	953.3	953.0	952.8	952.6	952.4
135°	1001.3	1003.4	1004.3	1003.9	1003.4	1003.0	1002.6
137.5°	1048.4	1050.6	1051.3	1050.6	1049.8	1049.0	1048.3
140°	1078.8	1080.8	1081.2	1080.2	1079.0	1077.9	1076.9
142.5°	1106.9	1108.6	1108.9	1107.9	1106.8	1105.8	1104.7
145°	1146.1	1147.5	1147.8	1146.7	1145.6	1144.6	1143.5
147.5°	1180.0	1181.1	1181.2	1180.3	1179.4	1178.5	1177.6
150°	1201.3	1202.6	1202.7	1201.7	1200.6	1199.5	1198.5
152.5°	1220.6	1221.9	1221.9	1220.5	1219.1	1217.7	1216.3
155°	1246.7	1248.0	1247.8	1246.1	1244.4	1242.6	1240.9
157.5°	1268.9	1270.3	1270.2	1268.5	1266.9	1265.2	1263.5
160°	1281.4	1282.7	1282.6	1281.1	1279.6	1278.2	1276.7
162.5°	1293.5	1295.1	1294.8	1292.9	1291.1	1289.3	1287.5
165°	1308.2	1309.7	1309.7	1308.2	1306.7	1305.1	1303.6
167.5°	1320.3	1321.8	1321.6	1319.7	1317.8	1315.9	1313.9
170°	1326.5	1328.0	1327.8	1325.9	1323.9	1322.0	1320.1
172.5°	1331.1	1332.6	1332.4	1330.5	1328.6	1326.7	1324.7
175°	1336.2	1337.7	1337.4	1335.1	1333.0	1330.9	1328.8
177.5°	1336.4	1337.6	1337.5	1335.8	1334.3	1332.8	1331.3
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5

(END OF REPORT)