

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: P332355-940

Luminaire Tested: **S123RDIP-S1000D1195U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332355-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D1195U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7187.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

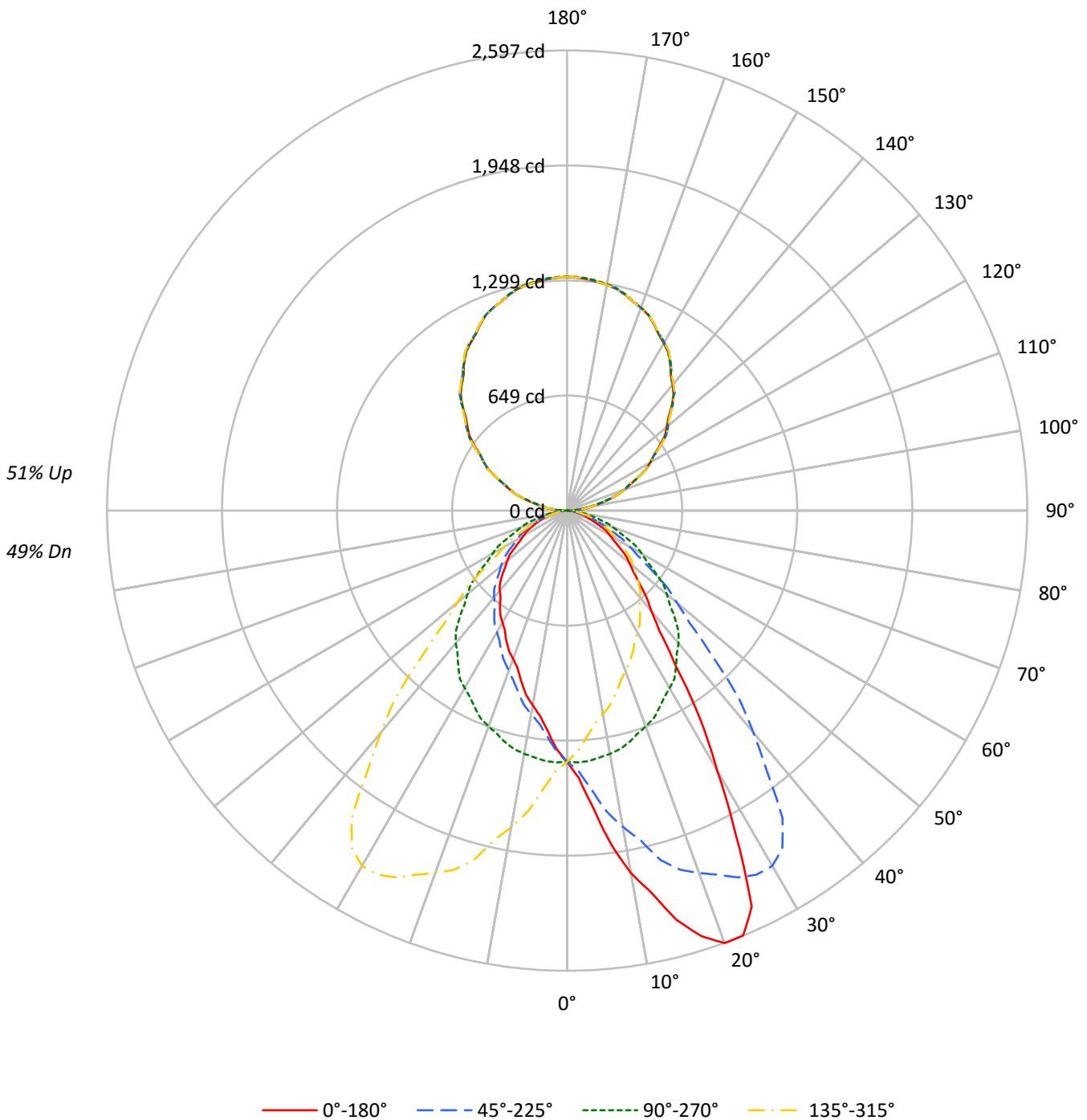
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69		61	60	58		50	49	48	43
2	90	83	77	72	83	77	72	67	65	61	58		54	52	49		45	43	41	37
3	82	73	66	61	76	68	62	57	58	53	50		49	45	43		40	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43		44	40	37		36	33	31	28
5	70	58	51	45	64	54	47	42	47	41	37		39	35	32		33	30	28	24
6	64	53	45	39	59	49	42	37	42	37	33		36	32	29		30	27	24	22
7	59	48	40	34	55	44	38	33	38	33	29		33	29	25		27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26		30	26	23		25	22	20	17
9	52	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°	15259	15259	15259	15259
5°	18189	15324	13493	15324
10°	22710	15235	12191	15235
15°	26658	15081	11117	15081
20°	29751	14848	10204	14848
25°	29276	14602	9644	14602
30°	21044	14375	9066	14375
35°	14051	14082	8692	14082
40°	10352	13728	8304	13728
45°	8683	13108	7926	13108
50°	7661	12295	7398	12295
55°	6718	11365	6673	11365
60°	5983	10478	6114	10478
65°	5254	9521	5687	9521
70°	4126	8670	5196	8670
75°	3635	7573	4741	7573
80°	3161	6434	4668	6434
85°	2544	5175	4940	5175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.9
10°-20°	435.5	6.1
20°-30°	684.2	9.5
30°-40°	713.8	9.9
40°-50°	610.9	8.5
50°-60°	465.6	6.5
60°-70°	298.4	4.2
70°-80°	143.6	2.0
80°-90°	41.9	0.6
90°-100°	85.9	1.2
100°-110°	257.2	3.6
110°-120°	437.4	6.1
120°-130°	575.3	8.0
130°-140°	646.7	9.0
140°-150°	635.6	8.8
150°-160°	535.1	7.4
160°-170°	356.2	5.0
170°-180°	124.7	1.7
0°-30°	1259.1	17.5
0°-40°	1973.0	27.4
0°-60°	3049.5	42.4
0°-90°	3533.4	49.2
90°-120°	780.5	10.9
90°-150°	2638.1	36.7
90°-180°	3654.0	50.8
0°-180°	7187.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1683	1418	1249	1418	1683	174
15°	2392	1353	998	1353	2392	678
25°	2465	1230	812	1230	2465	1059
35°	1069	1072	662	1072	1069	701
45°	570	861	521	861	570	449
55°	358	606	356	606	358	324
65°	206	374	223	374	206	203
75°	87	182	114	182	87	94
85°	21	42	40	42	21	24
90°	31	1	31	1	31	16
95°	81	61	81	61	81	83
105°	247	233	247	233	247	262
115°	441	440	441	440	441	437
125°	637	644	637	644	637	570
135°	835	836	835	836	835	642
145°	1014	1014	1014	1014	1014	633
155°	1159	1162	1159	1162	1159	534
165°	1261	1265	1261	1265	1261	356
175°	1311	1316	1311	1316	1311	124
180°	1319	1319	1319	1319	1319	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1509.8	1511.7	1505.5	1504.5	1497.2	1495.2	1495.2	1485.1	1478.7	1470.5	1465.6
5°	1683.4	1693.1	1688.2	1677.3	1659.1	1654.8	1643.3	1625.1	1604.5	1579.0	1566.8
7.5°	1900.1	1913.3	1908.3	1891.4	1872.3	1856.9	1824.4	1794.2	1751.9	1714.7	1682.9
10°	2077.8	2063.9	2052.9	2036.6	2018.9	1990.4	1956.4	1909.7	1855.7	1813.2	1765.9
12.5°	2210.8	2208.5	2194.7	2177.8	2152.9	2125.8	2084.1	2027.2	1964.4	1903.1	1848.9
15°	2392.2	2395.8	2386.7	2369.1	2333.9	2286.0	2222.9	2199.2	2109.3	2042.6	1975.9
17.5°	2517.7	2516.9	2515.7	2491.4	2455.4	2421.3	2362.8	2300.5	2219.2	2125.1	2035.2
20°	2597.3	2591.2	2592.4	2565.1	2538.4	2498.9	2442.0	2351.5	2284.7	2176.1	2083.3
22.5°	2595.3	2594.1	2598.7	2589.3	2570.0	2539.8	2494.8	2418.5	2333.3	2223.7	2119.2
25°	2465.0	2460.1	2488.7	2496.5	2527.5	2532.9	2519.6	2477.7	2397.0	2284.1	2154.9
27.5°	2063.0	2060.3	2113.3	2179.5	2263.5	2328.8	2391.9	2422.4	2397.0	2316.2	2186.7
30°	1693.1	1750.2	1776.8	1872.7	1979.5	2106.9	2218.6	2324.8	2350.9	2315.7	2209.5
32.5°	1405.7	1455.5	1477.7	1560.0	1659.6	1808.8	1976.4	2126.7	2232.9	2259.9	2195.9
35°	1069.3	1069.9	1120.8	1157.3	1249.5	1403.0	1565.7	1767.1	1967.4	2119.1	2134.8
37.5°	853.2	856.2	887.1	923.4	992.6	1073.7	1216.9	1384.5	1615.8	1848.7	1985.2
40°	736.7	742.2	765.3	801.0	850.8	912.0	1023.8	1181.5	1374.5	1633.6	1845.4
42.5°	661.9	670.8	682.7	710.2	741.1	798.4	888.8	1010.7	1186.2	1431.2	1675.5
45°	570.4	575.2	584.4	597.1	625.0	665.1	725.8	807.7	953.3	1150.6	1395.1
47.5°	503.2	500.6	510.2	520.6	539.1	566.4	607.1	674.0	777.8	936.1	1143.5
50°	457.5	456.9	463.6	471.5	489.1	509.2	542.5	592.9	675.4	806.5	996.4
52.5°	414.8	417.1	421.9	431.7	444.4	460.6	490.5	526.8	597.7	710.9	869.2
55°	358.0	359.9	366.5	372.0	381.1	397.4	416.3	446.7	495.2	574.1	704.5
57.5°	310.0	309.2	315.6	316.9	327.2	340.5	355.1	378.7	413.8	472.5	560.4
60°	277.9	276.1	281.6	285.8	291.3	302.2	314.3	337.4	365.3	408.4	483.7
62.5°	248.8	248.0	252.0	256.2	260.7	270.6	280.9	298.5	320.7	357.0	416.7
65°	206.3	208.1	210.0	211.8	214.2	220.3	230.0	242.1	257.3	282.8	325.8
67.5°	162.1	164.0	164.6	168.4	173.5	177.4	183.2	194.0	204.6	226.1	250.7
70°	131.1	130.5	131.1	132.9	139.6	146.2	154.2	162.0	168.7	183.9	204.5
72.5°	112.6	111.6	113.2	113.5	116.7	118.6	123.6	131.0	139.6	149.9	164.7
75°	87.4	87.4	87.4	87.4	89.8	91.0	92.8	94.7	97.7	102.5	113.5
77.5°	64.6	64.6	65.5	66.2	66.6	67.3	68.5	70.3	71.3	73.9	78.6
80°	51.0	51.5	51.0	51.5	51.5	52.8	53.4	55.2	55.8	58.9	60.7
82.5°	38.3	38.0	38.3	39.0	39.0	40.2	40.3	41.6	41.7	43.3	45.1
85°	20.6	19.4	20.6	20.1	21.2	20.1	20.6	21.8	21.8	22.5	24.9
87.5°	11.1	11.9	10.9	11.3	11.1	11.5	11.3	11.1	11.9	11.3	11.1
90°	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.8	25.8	24.9	21.8
92.5°	41.8	42.1	42.4	42.7	43.0	42.7	42.0	41.3	40.5	39.8	38.1
95°	80.8	80.8	80.8	80.8	80.8	80.3	79.5	78.5	77.6	76.7	74.8
97.5°	124.3	124.4	124.5	124.6	124.7	124.2	123.1	122.1	121.0	119.9	118.6
100°	157.5	157.0	156.6	156.1	155.6	155.1	154.4	153.6	153.0	152.3	151.1
102.5°	191.5	191.5	191.6	191.7	191.8	191.5	190.8	190.1	189.5	188.8	187.3
105°	246.6	246.1	245.7	245.2	244.8	244.5	244.5	244.5	244.5	244.5	242.5
107.5°	304.0	304.3	304.5	304.8	305.1	304.9	304.2	303.4	302.6	301.9	301.0
110°	343.0	343.4	343.8	344.3	344.7	344.6	343.7	342.7	341.8	340.9	340.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	384.4	384.5	384.6	384.7	384.8	384.2	383.2	382.0	380.9	379.8	379.7
115°	441.4	441.6	441.8	442.0	442.3	442.3	442.0	441.8	441.6	441.4	441.8
117.5°	499.2	499.8	500.4	501.1	501.8	502.1	502.1	502.2	502.2	502.3	502.9
120°	539.8	540.3	540.7	541.2	541.6	542.0	542.2	542.4	542.7	542.9	544.0
122.5°	578.7	579.3	580.1	580.7	581.3	581.9	582.6	583.2	583.7	584.3	585.0
125°	637.2	638.1	639.0	640.0	640.9	641.8	642.7	643.6	644.5	645.5	646.0
127.5°	695.4	696.4	697.5	698.6	699.6	700.8	702.1	703.4	704.7	706.0	706.5
130°	733.5	735.1	736.7	738.3	739.9	741.3	742.2	743.1	744.0	744.9	745.6
132.5°	773.3	774.5	775.8	777.0	778.3	779.4	780.6	781.7	782.7	783.9	784.3
135°	835.1	835.5	836.0	836.4	836.9	837.6	838.5	839.5	840.3	841.2	841.5
137.5°	889.6	890.5	891.4	892.2	893.0	893.9	894.9	895.9	896.9	897.9	897.2
140°	925.2	926.8	928.4	930.1	931.7	932.6	932.8	933.0	933.3	933.5	933.3
142.5°	961.7	963.0	964.1	965.4	966.6	967.4	967.6	967.9	968.0	968.3	967.9
145°	1014.3	1015.2	1016.1	1017.1	1018.0	1018.6	1018.8	1019.0	1019.2	1019.5	1018.8
147.5°	1061.1	1062.5	1063.9	1065.2	1066.7	1067.4	1067.4	1067.4	1067.4	1067.4	1066.7
150°	1091.0	1092.3	1093.8	1095.1	1096.5	1097.2	1097.2	1097.2	1097.2	1097.2	1096.7
152.5°	1120.0	1121.1	1122.4	1123.6	1124.8	1125.2	1124.8	1124.4	1124.1	1123.7	1123.5
155°	1159.3	1161.0	1162.6	1164.2	1165.8	1166.2	1165.2	1164.3	1163.4	1162.4	1162.3
157.5°	1195.2	1196.5	1197.7	1199.1	1200.3	1200.5	1199.5	1198.5	1197.7	1196.7	1196.5
160°	1218.4	1219.3	1220.2	1221.2	1222.1	1222.0	1220.8	1219.7	1218.5	1217.4	1217.4
162.5°	1235.8	1237.2	1238.8	1240.2	1241.7	1241.9	1240.7	1239.6	1238.4	1237.2	1237.1
165°	1260.9	1262.5	1264.1	1265.7	1267.3	1267.5	1266.1	1264.7	1263.3	1261.9	1261.9
167.5°	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9	1286.5	1285.0	1283.6	1282.2	1282.0
170°	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5	1297.9	1296.2	1294.6	1293.0	1293.0
172.5°	1301.3	1302.9	1304.5	1306.1	1307.8	1307.9	1306.4	1305.0	1303.6	1302.2	1302.2
175°	1310.6	1312.2	1313.8	1315.5	1317.1	1317.1	1315.8	1314.4	1313.0	1311.6	1311.6
177.5°	1315.6	1316.9	1318.1	1319.5	1320.7	1320.8	1319.7	1318.7	1317.5	1316.4	1316.4
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1463.7	1462.2	1455.5	1447.7	1437.4	1430.7	1425.3	1422.5	1413.7	1403.0	1395.7
5°	1554.1	1535.9	1516.5	1492.8	1471.0	1448.5	1434.6	1418.2	1398.1	1375.7	1359.9
7.5°	1651.0	1615.2	1576.8	1537.1	1497.9	1462.8	1431.6	1405.1	1373.1	1341.0	1318.4
10°	1725.3	1673.0	1619.1	1563.8	1513.4	1466.2	1429.7	1393.9	1355.7	1318.7	1290.8
12.5°	1792.7	1724.0	1661.8	1593.9	1529.5	1472.9	1420.5	1378.4	1332.4	1292.9	1261.1
15°	1878.1	1807.8	1732.5	1629.3	1543.8	1472.2	1408.5	1353.3	1297.4	1248.8	1217.9
17.5°	1958.0	1852.1	1751.0	1664.9	1553.7	1464.3	1386.5	1320.4	1259.2	1207.7	1169.7
20°	1991.0	1888.5	1778.6	1668.8	1559.6	1459.5	1369.0	1296.2	1232.5	1174.2	1139.1
22.5°	2010.9	1894.8	1779.1	1661.1	1545.0	1441.0	1351.6	1271.5	1202.4	1147.0	1103.6
25°	2034.1	1895.8	1768.4	1651.8	1533.5	1420.6	1314.4	1229.5	1154.9	1095.9	1049.8
27.5°	2049.4	1886.7	1736.1	1606.5	1486.5	1374.1	1276.8	1186.7	1111.0	1048.7	999.3
30°	2052.4	1879.4	1711.3	1571.1	1449.1	1345.9	1242.8	1156.6	1076.6	1010.4	964.3
32.5°	2056.2	1861.4	1677.8	1528.8	1404.0	1301.8	1208.4	1126.1	1044.0	978.8	931.7
35°	2040.2	1851.5	1626.9	1455.8	1330.8	1231.9	1147.5	1071.7	991.0	927.8	879.9
37.5°	1971.2	1812.0	1574.2	1373.5	1242.8	1151.2	1082.4	1016.4	942.3	874.2	829.0
40°	1901.8	1773.2	1533.5	1323.5	1187.0	1092.9	1031.0	977.0	905.4	841.7	793.2
42.5°	1798.4	1720.3	1494.7	1271.0	1123.8	1033.2	981.0	930.4	867.5	802.8	757.2
45°	1608.7	1619.1	1415.1	1187.6	1036.4	945.5	896.3	861.1	805.3	751.9	705.2
47.5°	1370.8	1467.3	1321.8	1098.6	944.3	858.9	815.9	785.2	747.6	695.2	652.6
50°	1215.5	1353.3	1247.1	1038.9	886.6	801.6	759.1	734.2	701.5	660.2	619.6
52.5°	1072.3	1220.2	1156.7	972.4	823.9	746.3	704.8	684.3	658.3	619.5	582.6
55°	874.4	1024.3	1009.8	872.0	730.0	660.2	628.7	605.6	588.0	558.9	529.8
57.5°	707.3	849.4	856.9	760.4	647.3	578.3	551.2	533.8	522.3	500.2	473.3
60°	602.0	732.5	758.0	685.1	588.0	527.4	500.6	486.7	477.6	459.9	439.3
62.5°	514.6	625.6	654.5	602.1	531.2	474.4	453.5	440.1	433.9	418.7	400.6
65°	393.9	486.1	514.0	484.8	447.8	402.3	385.3	373.8	368.4	359.9	346.5
67.5°	296.1	363.4	394.0	373.4	360.1	331.4	320.6	314.3	309.5	303.6	292.5
70°	237.9	287.7	319.2	313.7	302.8	287.7	279.7	275.5	270.6	265.8	256.1
72.5°	191.3	225.5	255.1	257.9	249.0	245.9	239.0	237.2	234.3	228.5	223.1
75°	126.8	150.5	171.1	179.1	182.6	185.7	182.6	182.1	181.5	176.6	173.5
77.5°	83.1	95.9	108.9	122.3	128.0	132.2	133.1	135.4	133.8	131.2	129.7
80°	63.8	66.8	75.9	87.4	96.5	100.1	102.5	103.8	103.2	102.5	100.1
82.5°	46.3	48.8	53.1	61.2	68.8	74.9	76.3	76.1	77.4	77.8	75.9
85°	24.9	25.5	26.7	27.9	32.2	38.9	40.7	41.9	43.1	43.1	39.4
87.5°	11.5	10.4	10.8	10.3	11.3	11.3	13.7	15.8	16.7	15.2	15.7
90°	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1	3.3	5.6	7.9
92.5°	36.4	34.7	33.0	31.3	29.8	28.2	26.7	25.1	26.7	28.2	29.8
95°	72.9	71.2	69.3	67.6	66.0	64.4	62.8	61.2	62.8	64.4	66.0
97.5°	117.3	116.0	114.7	113.3	112.2	111.0	109.8	108.6	109.8	111.0	112.2
100°	150.0	148.8	147.7	146.4	145.1	143.7	142.3	140.9	142.3	143.7	145.1
102.5°	185.7	184.2	182.7	181.6	180.7	179.9	179.1	178.2	179.1	179.9	180.7
105°	240.4	238.3	236.2	235.0	234.5	234.1	233.5	233.1	233.5	234.1	234.5
107.5°	300.2	299.4	298.6	298.0	297.7	297.5	297.2	296.9	297.2	297.5	297.7
110°	339.9	339.5	339.0	338.6	338.1	337.6	337.2	336.7	337.2	337.6	338.1



TEST NUMBER: P332355-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	379.6	379.5	379.4	379.2	379.0	378.7	378.4	378.2	378.4	378.7	379.0
115°	442.3	442.7	443.2	443.1	442.4	441.7	441.0	440.3	441.0	441.7	442.4
117.5°	503.5	504.1	504.7	504.7	504.3	503.8	503.4	502.9	503.4	503.8	504.3
120°	545.2	546.4	547.5	547.4	546.0	544.7	543.2	541.9	543.2	544.7	546.0
122.5°	585.5	586.1	586.7	586.6	585.5	584.5	583.4	582.5	583.4	584.5	585.5
125°	646.4	646.8	647.3	647.2	646.5	645.8	645.2	644.4	645.2	645.8	646.5
127.5°	706.9	707.5	708.0	707.5	706.1	704.5	703.1	701.6	703.1	704.5	706.1
130°	746.3	747.0	747.7	747.1	745.3	743.4	741.5	739.8	741.5	743.4	745.3
132.5°	784.9	785.4	786.0	785.2	783.4	781.6	779.7	777.8	779.7	781.6	783.4
135°	841.8	842.0	842.2	841.6	840.3	838.8	837.5	836.1	837.5	838.8	840.3
137.5°	896.6	896.1	895.5	894.6	893.4	892.2	891.1	890.0	891.1	892.2	893.4
140°	933.0	932.8	932.6	931.8	930.8	929.6	928.4	927.3	928.4	929.6	930.8
142.5°	967.5	967.1	966.6	965.9	964.7	963.6	962.4	961.3	962.4	963.6	964.7
145°	1018.1	1017.4	1016.7	1016.1	1015.7	1015.2	1014.8	1014.3	1014.8	1015.2	1015.7
147.5°	1066.0	1065.4	1064.8	1064.1	1063.2	1062.4	1061.6	1060.7	1061.6	1062.4	1063.2
150°	1096.3	1095.8	1095.4	1094.9	1094.4	1094.0	1093.5	1093.1	1093.5	1094.0	1094.4
152.5°	1123.2	1122.8	1122.6	1122.1	1121.5	1120.9	1120.3	1119.5	1120.3	1120.9	1121.5
155°	1162.0	1161.8	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
157.5°	1196.3	1196.1	1195.9	1196.0	1196.2	1196.5	1196.8	1197.0	1196.8	1196.5	1196.2
160°	1217.4	1217.4	1217.4	1217.6	1218.1	1218.5	1219.0	1219.4	1219.0	1218.5	1218.1
162.5°	1236.9	1236.7	1236.5	1236.8	1237.4	1238.1	1238.7	1239.3	1238.7	1238.1	1237.4
165°	1261.9	1261.9	1261.9	1262.3	1262.9	1263.6	1264.4	1265.1	1264.4	1263.6	1262.9
167.5°	1281.8	1281.7	1281.5	1281.8	1282.8	1283.7	1284.6	1285.6	1284.6	1283.7	1282.8
170°	1293.0	1293.0	1293.0	1293.4	1294.4	1295.3	1296.2	1297.2	1296.2	1295.3	1294.4
172.5°	1302.2	1302.2	1302.2	1302.6	1303.5	1304.4	1305.4	1306.3	1305.4	1304.4	1303.5
175°	1311.6	1311.6	1311.6	1312.2	1313.0	1313.9	1314.9	1315.8	1314.9	1313.9	1313.0
177.5°	1316.4	1316.4	1316.4	1316.8	1317.5	1318.3	1319.0	1319.7	1319.0	1318.3	1317.5
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



TEST NUMBER: P332355-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1393.3	1387.0	1382.6	1372.9	1366.6	1359.8	1353.0	1357.4	1356.9	1356.4	1356.4
5°	1346.6	1332.6	1319.9	1303.5	1293.2	1280.4	1270.7	1269.5	1271.9	1263.5	1258.6
7.5°	1300.2	1281.1	1263.1	1245.0	1225.8	1210.5	1201.0	1196.4	1190.3	1185.0	1179.6
10°	1267.7	1245.3	1227.6	1205.1	1184.5	1166.4	1154.9	1146.9	1142.6	1138.4	1130.5
12.5°	1234.2	1212.2	1189.8	1164.4	1144.8	1123.6	1115.0	1106.2	1098.1	1093.2	1082.4
15°	1185.2	1156.6	1133.0	1106.3	1084.4	1063.8	1051.7	1034.0	1031.6	1025.6	1014.7
17.5°	1136.0	1105.0	1072.4	1052.7	1028.0	1006.5	988.0	982.1	964.7	958.2	948.7
20°	1097.2	1068.6	1043.7	1017.7	981.9	961.8	947.3	939.4	925.4	916.9	910.9
22.5°	1063.6	1034.7	1005.9	975.4	945.9	923.5	912.8	900.5	892.9	881.0	874.4
25°	1015.8	984.3	949.7	916.9	895.7	878.7	861.7	850.8	839.9	834.4	822.2
27.5°	960.3	927.3	894.9	870.0	844.0	827.2	811.8	802.1	789.0	779.8	773.1
30°	929.7	890.8	862.9	840.4	807.1	791.3	779.8	767.7	758.0	748.2	741.5
32.5°	894.2	858.8	832.3	804.6	778.9	761.7	746.8	736.1	727.8	718.6	711.9
35°	838.7	809.0	781.6	753.7	734.9	717.3	699.7	690.5	682.7	674.2	668.2
37.5°	788.4	760.6	734.7	708.2	684.8	670.6	656.4	649.4	638.7	633.0	626.9
40°	757.3	730.0	702.1	676.6	652.4	641.4	628.7	618.4	608.7	604.4	597.7
42.5°	723.4	696.1	672.5	645.1	625.2	610.4	598.6	587.3	580.1	573.8	570.1
45°	673.0	648.7	625.6	598.3	579.5	566.8	553.4	543.1	536.5	532.2	525.5
47.5°	624.1	599.8	576.4	552.6	534.4	519.8	506.5	499.3	490.4	485.3	480.7
50°	588.6	566.8	541.9	520.0	501.9	487.3	476.4	467.3	459.4	452.7	449.7
52.5°	556.1	532.8	511.3	491.0	471.7	455.2	445.3	435.7	429.8	422.1	418.6
55°	502.5	480.0	461.8	441.8	422.9	409.0	396.9	388.3	382.3	373.8	369.0
57.5°	452.1	431.9	410.2	392.9	373.4	361.7	351.6	340.1	332.7	326.0	321.3
60°	418.1	395.0	376.2	359.9	342.9	327.7	318.6	309.5	301.6	294.9	290.7
62.5°	382.6	362.6	344.6	326.8	311.3	298.1	287.5	279.9	273.0	268.7	264.5
65°	328.3	312.5	294.4	279.7	265.2	255.5	247.0	240.3	235.4	232.4	228.8
67.5°	278.3	263.0	247.1	232.8	223.1	215.7	210.1	204.4	202.0	198.0	195.6
70°	245.8	230.0	216.1	205.1	195.4	189.9	186.3	182.1	179.6	174.8	172.4
72.5°	210.4	198.9	188.9	179.9	172.1	167.1	162.5	157.3	153.4	148.0	145.6
75°	165.7	155.3	147.5	141.4	136.5	129.8	123.1	117.7	115.9	114.0	113.5
77.5°	122.7	116.2	110.5	105.3	99.2	94.4	93.0	91.8	91.4	90.4	90.4
80°	96.5	90.4	86.1	80.1	76.4	76.4	76.4	75.3	75.9	75.9	75.9
82.5°	71.7	66.2	63.8	61.6	60.9	61.4	61.4	61.6	61.3	62.2	61.8
85°	37.0	37.6	38.9	38.3	38.9	38.9	40.0	39.4	40.0	38.9	40.0
87.5°	15.6	17.7	18.7	19.8	20.9	21.0	21.7	21.8	22.6	22.7	22.8
90°	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.8	27.6	28.5	29.2
92.5°	31.3	33.0	34.7	36.4	38.1	39.8	40.5	41.3	42.0	42.7	43.0
95°	67.6	69.3	71.2	72.9	74.8	76.7	77.6	78.5	79.5	80.3	80.8
97.5°	113.3	114.7	116.0	117.3	118.6	119.9	121.0	122.1	123.1	124.2	124.7
100°	146.4	147.7	148.8	150.0	151.1	152.3	153.0	153.6	154.4	155.1	155.6
102.5°	181.6	182.7	184.2	185.7	187.3	188.8	189.5	190.1	190.8	191.5	191.8
105°	235.0	236.2	238.3	240.4	242.5	244.5	244.5	244.5	244.5	244.5	244.8
107.5°	298.0	298.6	299.4	300.2	301.0	301.9	302.6	303.4	304.2	304.9	305.1
110°	338.6	339.0	339.5	339.9	340.4	340.9	341.8	342.7	343.7	344.6	344.7



TEST NUMBER: P332355-940

CATALOG NUMBER: S123RDIP-S1000D1195U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	379.2	379.4	379.5	379.6	379.7	379.8	380.9	382.0	383.2	384.2	384.8
115°	443.1	443.2	442.7	442.3	441.8	441.4	441.6	441.8	442.0	442.3	442.3
117.5°	504.7	504.7	504.1	503.5	502.9	502.3	502.2	502.2	502.1	502.1	501.8
120°	547.4	547.5	546.4	545.2	544.0	542.9	542.7	542.4	542.2	542.0	541.6
122.5°	586.6	586.7	586.1	585.5	585.0	584.3	583.7	583.2	582.6	581.9	581.3
125°	647.2	647.3	646.8	646.4	646.0	645.5	644.5	643.6	642.7	641.8	640.9
127.5°	707.5	708.0	707.5	706.9	706.5	706.0	704.7	703.4	702.1	700.8	699.6
130°	747.1	747.7	747.0	746.3	745.6	744.9	744.0	743.1	742.2	741.3	739.9
132.5°	785.2	786.0	785.4	784.9	784.3	783.9	782.7	781.7	780.6	779.4	778.3
135°	841.6	842.2	842.0	841.8	841.5	841.2	840.3	839.5	838.5	837.6	836.9
137.5°	894.6	895.5	896.1	896.6	897.2	897.9	896.9	895.9	894.9	893.9	893.0
140°	931.8	932.6	932.8	933.0	933.3	933.5	933.3	933.0	932.8	932.6	931.7
142.5°	965.9	966.6	967.1	967.5	967.9	968.3	968.0	967.9	967.6	967.4	966.6
145°	1016.1	1016.7	1017.4	1018.1	1018.8	1019.5	1019.2	1019.0	1018.8	1018.6	1018.0
147.5°	1064.1	1064.8	1065.4	1066.0	1066.7	1067.4	1067.4	1067.4	1067.4	1067.4	1066.7
150°	1094.9	1095.4	1095.8	1096.3	1096.7	1097.2	1097.2	1097.2	1097.2	1097.2	1096.5
152.5°	1122.1	1122.6	1122.8	1123.2	1123.5	1123.7	1124.1	1124.4	1124.8	1125.2	1124.8
155°	1161.5	1161.5	1161.8	1162.0	1162.3	1162.4	1163.4	1164.3	1165.2	1166.2	1165.8
157.5°	1196.0	1195.9	1196.1	1196.3	1196.5	1196.7	1197.7	1198.5	1199.5	1200.5	1200.3
160°	1217.6	1217.4	1217.4	1217.4	1217.4	1217.4	1218.5	1219.7	1220.8	1222.0	1222.1
162.5°	1236.8	1236.5	1236.7	1236.9	1237.1	1237.2	1238.4	1239.6	1240.7	1241.9	1241.7
165°	1262.3	1261.9	1261.9	1261.9	1261.9	1261.9	1263.3	1264.7	1266.1	1267.5	1267.3
167.5°	1281.8	1281.5	1281.7	1281.8	1282.0	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9
170°	1293.4	1293.0	1293.0	1293.0	1293.0	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5
172.5°	1302.6	1302.2	1302.2	1302.2	1302.2	1302.2	1303.6	1305.0	1306.4	1307.9	1307.8
175°	1312.2	1311.6	1311.6	1311.6	1311.6	1311.6	1313.0	1314.4	1315.8	1317.1	1317.1
177.5°	1316.8	1316.4	1316.4	1316.4	1316.4	1316.4	1317.5	1318.7	1319.7	1320.8	1320.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1350.6	1350.1	1350.6	1348.6	1350.6	1350.1	1350.6	1356.4	1356.4	1356.9	1357.4
5°	1256.8	1256.2	1254.4	1248.8	1254.4	1256.2	1256.8	1258.6	1263.5	1271.9	1269.5
7.5°	1174.8	1174.0	1168.7	1168.8	1168.7	1174.0	1174.8	1179.6	1185.0	1190.3	1196.4
10°	1126.3	1126.9	1119.6	1115.4	1119.6	1126.9	1126.3	1130.5	1138.4	1142.6	1146.9
12.5°	1079.2	1076.4	1070.6	1065.9	1070.6	1076.4	1079.2	1082.4	1093.2	1098.1	1106.2
15°	1017.1	1011.0	996.4	997.6	996.4	1011.0	1017.1	1014.7	1025.6	1031.6	1034.0
17.5°	943.9	939.4	939.1	930.7	939.1	939.4	943.9	948.7	958.2	964.7	982.1
20°	901.2	898.1	899.3	890.8	899.3	898.1	901.2	910.9	916.9	925.4	939.4
22.5°	867.6	864.6	859.5	856.8	859.5	864.6	867.6	874.4	881.0	892.9	900.5
25°	818.6	813.8	809.0	812.0	809.0	813.8	818.6	822.2	834.4	839.9	850.8
27.5°	769.6	766.0	761.1	760.5	761.1	766.0	769.6	773.1	779.8	789.0	802.1
30°	738.5	734.9	732.5	729.4	732.5	734.9	738.5	741.5	748.2	758.0	767.7
32.5°	706.9	706.2	701.9	701.2	701.9	706.2	706.9	711.9	718.6	727.8	736.1
35°	665.7	662.1	660.8	661.5	660.8	662.1	665.7	668.2	674.2	682.7	690.5
37.5°	626.5	621.6	619.5	617.2	619.5	621.6	626.5	626.9	633.0	638.7	649.4
40°	598.3	593.5	592.3	591.0	592.3	593.5	598.3	597.7	604.4	608.7	618.4
42.5°	566.8	564.8	564.1	562.0	564.1	564.8	566.8	570.1	573.8	580.1	587.3
45°	523.7	523.1	519.4	520.7	519.4	523.1	523.7	525.5	532.2	536.5	543.1
47.5°	478.3	475.6	473.1	474.7	473.1	475.6	478.3	480.7	485.3	490.4	499.3
50°	447.3	446.0	440.6	441.8	440.6	446.0	447.3	449.7	452.7	459.4	467.3
52.5°	416.2	411.5	409.5	408.8	409.5	411.5	416.2	418.6	422.1	429.8	435.7
55°	364.7	359.3	356.9	355.6	356.9	359.3	364.7	369.0	373.8	382.3	388.3
57.5°	314.2	312.7	310.9	312.2	310.9	312.7	314.2	321.3	326.0	332.7	340.1
60°	284.6	284.6	284.6	284.0	284.6	284.6	284.6	290.7	294.9	301.6	309.5
62.5°	261.8	260.3	259.8	260.7	259.8	260.3	261.8	264.5	268.7	273.0	279.9
65°	226.9	226.3	223.9	223.3	223.9	226.3	226.9	228.8	232.4	235.4	240.3
67.5°	194.0	191.9	191.2	190.3	191.2	191.9	194.0	195.6	198.0	202.0	204.4
70°	169.3	168.1	164.4	165.1	164.4	168.1	169.3	172.4	174.8	179.6	182.1
72.5°	142.6	141.4	140.6	139.8	140.6	141.4	142.6	145.6	148.0	153.4	157.3
75°	112.9	112.3	111.6	114.0	111.6	112.3	112.9	113.5	114.0	115.9	117.7
77.5°	90.4	90.4	90.8	89.8	90.8	90.4	90.4	90.4	90.4	91.4	91.8
80°	75.9	75.9	75.3	75.3	75.3	75.9	75.9	75.9	75.9	75.9	75.3
82.5°	60.8	61.3	61.6	60.7	61.6	61.3	60.8	61.8	62.2	61.3	61.6
85°	40.0	39.4	40.7	40.0	40.7	39.4	40.0	40.0	38.9	40.0	39.4
87.5°	23.9	23.0	23.1	23.7	23.1	23.0	23.9	22.8	22.7	22.6	21.8
90°	29.7	30.1	30.6	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.8
92.5°	42.7	42.4	42.1	41.8	42.1	42.4	42.7	43.0	42.7	42.0	41.3
95°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.3	79.5	78.5
97.5°	124.6	124.5	124.4	124.3	124.4	124.5	124.6	124.7	124.2	123.1	122.1
100°	156.1	156.6	157.0	157.5	157.0	156.6	156.1	155.6	155.1	154.4	153.6
102.5°	191.7	191.6	191.5	191.5	191.5	191.6	191.7	191.8	191.5	190.8	190.1
105°	245.2	245.7	246.1	246.6	246.1	245.7	245.2	244.8	244.5	244.5	244.5
107.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	304.9	304.2	303.4
110°	344.3	343.8	343.4	343.0	343.4	343.8	344.3	344.7	344.6	343.7	342.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.7	384.6	384.5	384.4	384.5	384.6	384.7	384.8	384.2	383.2	382.0
115°	442.0	441.8	441.6	441.4	441.6	441.8	442.0	442.3	442.3	442.0	441.8
117.5°	501.1	500.4	499.8	499.2	499.8	500.4	501.1	501.8	502.1	502.1	502.2
120°	541.2	540.7	540.3	539.8	540.3	540.7	541.2	541.6	542.0	542.2	542.4
122.5°	580.7	580.1	579.3	578.7	579.3	580.1	580.7	581.3	581.9	582.6	583.2
125°	640.0	639.0	638.1	637.2	638.1	639.0	640.0	640.9	641.8	642.7	643.6
127.5°	698.6	697.5	696.4	695.4	696.4	697.5	698.6	699.6	700.8	702.1	703.4
130°	738.3	736.7	735.1	733.5	735.1	736.7	738.3	739.9	741.3	742.2	743.1
132.5°	777.0	775.8	774.5	773.3	774.5	775.8	777.0	778.3	779.4	780.6	781.7
135°	836.4	836.0	835.5	835.1	835.5	836.0	836.4	836.9	837.6	838.5	839.5
137.5°	892.2	891.4	890.5	889.6	890.5	891.4	892.2	893.0	893.9	894.9	895.9
140°	930.1	928.4	926.8	925.2	926.8	928.4	930.1	931.7	932.6	932.8	933.0
142.5°	965.4	964.1	963.0	961.7	963.0	964.1	965.4	966.6	967.4	967.6	967.9
145°	1017.1	1016.1	1015.2	1014.3	1015.2	1016.1	1017.1	1018.0	1018.6	1018.8	1019.0
147.5°	1065.2	1063.9	1062.5	1061.1	1062.5	1063.9	1065.2	1066.7	1067.4	1067.4	1067.4
150°	1095.1	1093.8	1092.3	1091.0	1092.3	1093.8	1095.1	1096.5	1097.2	1097.2	1097.2
152.5°	1123.6	1122.4	1121.1	1120.0	1121.1	1122.4	1123.6	1124.8	1125.2	1124.8	1124.4
155°	1164.2	1162.6	1161.0	1159.3	1161.0	1162.6	1164.2	1165.8	1166.2	1165.2	1164.3
157.5°	1199.1	1197.7	1196.5	1195.2	1196.5	1197.7	1199.1	1200.3	1200.5	1199.5	1198.5
160°	1221.2	1220.2	1219.3	1218.4	1219.3	1220.2	1221.2	1222.1	1222.0	1220.8	1219.7
162.5°	1240.2	1238.8	1237.2	1235.8	1237.2	1238.8	1240.2	1241.7	1241.9	1240.7	1239.6
165°	1265.7	1264.1	1262.5	1260.9	1262.5	1264.1	1265.7	1267.3	1267.5	1266.1	1264.7
167.5°	1286.5	1285.0	1283.6	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9	1286.5	1285.0
170°	1297.9	1296.2	1294.6	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5	1297.9	1296.2
172.5°	1306.1	1304.5	1302.9	1301.3	1302.9	1304.5	1306.1	1307.8	1307.9	1306.4	1305.0
175°	1315.5	1313.8	1312.2	1310.6	1312.2	1313.8	1315.5	1317.1	1317.1	1315.8	1314.4
177.5°	1319.5	1318.1	1316.9	1315.6	1316.9	1318.1	1319.5	1320.7	1320.8	1319.7	1318.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1353.0	1359.8	1366.6	1372.9	1382.6	1387.0	1393.3	1395.7	1403.0	1413.7	1422.5
5°	1270.7	1280.4	1293.2	1303.5	1319.9	1332.6	1346.6	1359.9	1375.7	1398.1	1418.2
7.5°	1201.0	1210.5	1225.8	1245.0	1263.1	1281.1	1300.2	1318.4	1341.0	1373.1	1405.1
10°	1154.9	1166.4	1184.5	1205.1	1227.6	1245.3	1267.7	1290.8	1318.7	1355.7	1393.9
12.5°	1115.0	1123.6	1144.8	1164.4	1189.8	1212.2	1234.2	1261.1	1292.9	1332.4	1378.4
15°	1051.7	1063.8	1084.4	1106.3	1133.0	1156.6	1185.2	1217.9	1248.8	1297.4	1353.3
17.5°	988.0	1006.5	1028.0	1052.7	1072.4	1105.0	1136.0	1169.7	1207.7	1259.2	1320.4
20°	947.3	961.8	981.9	1017.7	1043.7	1068.6	1097.2	1139.1	1174.2	1232.5	1296.2
22.5°	912.8	923.5	945.9	975.4	1005.9	1034.7	1063.6	1103.6	1147.0	1202.4	1271.5
25°	861.7	878.7	895.7	916.9	949.7	984.3	1015.8	1049.8	1095.9	1154.9	1229.5
27.5°	811.8	827.2	844.0	870.0	894.9	927.3	960.3	999.3	1048.7	1111.0	1186.7
30°	779.8	791.3	807.1	840.4	862.9	890.8	929.7	964.3	1010.4	1076.6	1156.6
32.5°	746.8	761.7	778.9	804.6	832.3	858.8	894.2	931.7	978.8	1044.0	1126.1
35°	699.7	717.3	734.9	753.7	781.6	809.0	838.7	879.9	927.8	991.0	1071.7
37.5°	656.4	670.6	684.8	708.2	734.7	760.6	788.4	829.0	874.2	942.3	1016.4
40°	628.7	641.4	652.4	676.6	702.1	730.0	757.3	793.2	841.7	905.4	977.0
42.5°	598.6	610.4	625.2	645.1	672.5	696.1	723.4	757.2	802.8	867.5	930.4
45°	553.4	566.8	579.5	598.3	625.6	648.7	673.0	705.2	751.9	805.3	861.1
47.5°	506.5	519.8	534.4	552.6	576.4	599.8	624.1	652.6	695.2	747.6	785.2
50°	476.4	487.3	501.9	520.0	541.9	566.8	588.6	619.6	660.2	701.5	734.2
52.5°	445.3	455.2	471.7	491.0	511.3	532.8	556.1	582.6	619.5	658.3	684.3
55°	396.9	409.0	422.9	441.8	461.8	480.0	502.5	529.8	558.9	588.0	605.6
57.5°	351.6	361.7	373.4	392.9	410.2	431.9	452.1	473.3	500.2	522.3	533.8
60°	318.6	327.7	342.9	359.9	376.2	395.0	418.1	439.3	459.9	477.6	486.7
62.5°	287.5	298.1	311.3	326.8	344.6	362.6	382.6	400.6	418.7	433.9	440.1
65°	247.0	255.5	265.2	279.7	294.4	312.5	328.3	346.5	359.9	368.4	373.8
67.5°	210.1	215.7	223.1	232.8	247.1	263.0	278.3	292.5	303.6	309.5	314.3
70°	186.3	189.9	195.4	205.1	216.1	230.0	245.8	256.1	265.8	270.6	275.5
72.5°	162.5	167.1	172.1	179.9	188.9	198.9	210.4	223.1	228.5	234.3	237.2
75°	123.1	129.8	136.5	141.4	147.5	155.3	165.7	173.5	176.6	181.5	182.1
77.5°	93.0	94.4	99.2	105.3	110.5	116.2	122.7	129.7	131.2	133.8	135.4
80°	76.4	76.4	76.4	80.1	86.1	90.4	96.5	100.1	102.5	103.2	103.8
82.5°	61.4	61.4	60.9	61.6	63.8	66.2	71.7	75.9	77.8	77.4	76.1
85°	40.0	38.9	38.9	38.3	38.9	37.6	37.0	39.4	43.1	43.1	41.9
87.5°	21.7	21.0	20.9	19.8	18.7	17.7	15.6	15.7	15.2	16.7	15.8
90°	25.8	24.9	21.8	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1
92.5°	40.5	39.8	38.1	36.4	34.7	33.0	31.3	29.8	28.2	26.7	25.1
95°	77.6	76.7	74.8	72.9	71.2	69.3	67.6	66.0	64.4	62.8	61.2
97.5°	121.0	119.9	118.6	117.3	116.0	114.7	113.3	112.2	111.0	109.8	108.6
100°	153.0	152.3	151.1	150.0	148.8	147.7	146.4	145.1	143.7	142.3	140.9
102.5°	189.5	188.8	187.3	185.7	184.2	182.7	181.6	180.7	179.9	179.1	178.2
105°	244.5	244.5	242.5	240.4	238.3	236.2	235.0	234.5	234.1	233.5	233.1
107.5°	302.6	301.9	301.0	300.2	299.4	298.6	298.0	297.7	297.5	297.2	296.9
110°	341.8	340.9	340.4	339.9	339.5	339.0	338.6	338.1	337.6	337.2	336.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	380.9	379.8	379.7	379.6	379.5	379.4	379.2	379.0	378.7	378.4	378.2
115°	441.6	441.4	441.8	442.3	442.7	443.2	443.1	442.4	441.7	441.0	440.3
117.5°	502.2	502.3	502.9	503.5	504.1	504.7	504.7	504.3	503.8	503.4	502.9
120°	542.7	542.9	544.0	545.2	546.4	547.5	547.4	546.0	544.7	543.2	541.9
122.5°	583.7	584.3	585.0	585.5	586.1	586.7	586.6	585.5	584.5	583.4	582.5
125°	644.5	645.5	646.0	646.4	646.8	647.3	647.2	646.5	645.8	645.2	644.4
127.5°	704.7	706.0	706.5	706.9	707.5	708.0	707.5	706.1	704.5	703.1	701.6
130°	744.0	744.9	745.6	746.3	747.0	747.7	747.1	745.3	743.4	741.5	739.8
132.5°	782.7	783.9	784.3	784.9	785.4	786.0	785.2	783.4	781.6	779.7	777.8
135°	840.3	841.2	841.5	841.8	842.0	842.2	841.6	840.3	838.8	837.5	836.1
137.5°	896.9	897.9	897.2	896.6	896.1	895.5	894.6	893.4	892.2	891.1	890.0
140°	933.3	933.5	933.3	933.0	932.8	932.6	931.8	930.8	929.6	928.4	927.3
142.5°	968.0	968.3	967.9	967.5	967.1	966.6	965.9	964.7	963.6	962.4	961.3
145°	1019.2	1019.5	1018.8	1018.1	1017.4	1016.7	1016.1	1015.7	1015.2	1014.8	1014.3
147.5°	1067.4	1067.4	1066.7	1066.0	1065.4	1064.8	1064.1	1063.2	1062.4	1061.6	1060.7
150°	1097.2	1097.2	1096.7	1096.3	1095.8	1095.4	1094.9	1094.4	1094.0	1093.5	1093.1
152.5°	1124.1	1123.7	1123.5	1123.2	1122.8	1122.6	1122.1	1121.5	1120.9	1120.3	1119.5
155°	1163.4	1162.4	1162.3	1162.0	1161.8	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
157.5°	1197.7	1196.7	1196.5	1196.3	1196.1	1195.9	1196.0	1196.2	1196.5	1196.8	1197.0
160°	1218.5	1217.4	1217.4	1217.4	1217.4	1217.4	1217.6	1218.1	1218.5	1219.0	1219.4
162.5°	1238.4	1237.2	1237.1	1236.9	1236.7	1236.5	1236.8	1237.4	1238.1	1238.7	1239.3
165°	1263.3	1261.9	1261.9	1261.9	1261.9	1261.9	1262.3	1262.9	1263.6	1264.4	1265.1
167.5°	1283.6	1282.2	1282.0	1281.8	1281.7	1281.5	1281.8	1282.8	1283.7	1284.6	1285.6
170°	1294.6	1293.0	1293.0	1293.0	1293.0	1293.0	1293.4	1294.4	1295.3	1296.2	1297.2
172.5°	1303.6	1302.2	1302.2	1302.2	1302.2	1302.2	1302.6	1303.5	1304.4	1305.4	1306.3
175°	1313.0	1311.6	1311.6	1311.6	1311.6	1311.6	1312.2	1313.0	1313.9	1314.9	1315.8
177.5°	1317.5	1316.4	1316.4	1316.4	1316.4	1316.4	1316.8	1317.5	1318.3	1319.0	1319.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1425.3	1430.7	1437.4	1447.7	1455.5	1462.2	1463.7	1465.6	1470.5	1478.7	1485.1
5°	1434.6	1448.5	1471.0	1492.8	1516.5	1535.9	1554.1	1566.8	1579.0	1604.5	1625.1
7.5°	1431.6	1462.8	1497.9	1537.1	1576.8	1615.2	1651.0	1682.9	1714.7	1751.9	1794.2
10°	1429.7	1466.2	1513.4	1563.8	1619.1	1673.0	1725.3	1765.9	1813.2	1855.7	1909.7
12.5°	1420.5	1472.9	1529.5	1593.9	1661.8	1724.0	1792.7	1848.9	1903.1	1964.4	2027.2
15°	1408.5	1472.2	1543.8	1629.3	1732.5	1807.8	1878.1	1975.9	2042.6	2109.3	2199.2
17.5°	1386.5	1464.3	1553.7	1664.9	1751.0	1852.1	1958.0	2035.2	2125.1	2219.2	2300.5
20°	1369.0	1459.5	1559.6	1668.8	1778.6	1888.5	1991.0	2083.3	2176.1	2284.7	2351.5
22.5°	1351.6	1441.0	1545.0	1661.1	1779.1	1894.8	2010.9	2119.2	2223.7	2333.3	2418.5
25°	1314.4	1420.6	1533.5	1651.8	1768.4	1895.8	2034.1	2154.9	2284.1	2397.0	2477.7
27.5°	1276.8	1374.1	1486.5	1606.5	1736.1	1886.7	2049.4	2186.7	2316.2	2397.0	2422.4
30°	1242.8	1345.9	1449.1	1571.1	1711.3	1879.4	2052.4	2209.5	2315.7	2350.9	2324.8
32.5°	1208.4	1301.8	1404.0	1528.8	1677.8	1861.4	2056.2	2195.9	2259.9	2232.9	2126.7
35°	1147.5	1231.9	1330.8	1455.8	1626.9	1851.5	2040.2	2134.8	2119.1	1967.4	1767.1
37.5°	1082.4	1151.2	1242.8	1373.5	1574.2	1812.0	1971.2	1985.2	1848.7	1615.8	1384.5
40°	1031.0	1092.9	1187.0	1323.5	1533.5	1773.2	1901.8	1845.4	1633.6	1374.5	1181.5
42.5°	981.0	1033.2	1123.8	1271.0	1494.7	1720.3	1798.4	1675.5	1431.2	1186.2	1010.7
45°	896.3	945.5	1036.4	1187.6	1415.1	1619.1	1608.7	1395.1	1150.6	953.3	807.7
47.5°	815.9	858.9	944.3	1098.6	1321.8	1467.3	1370.8	1143.5	936.1	777.8	674.0
50°	759.1	801.6	886.6	1038.9	1247.1	1353.3	1215.5	996.4	806.5	675.4	592.9
52.5°	704.8	746.3	823.9	972.4	1156.7	1220.2	1072.3	869.2	710.9	597.7	526.8
55°	628.7	660.2	730.0	872.0	1009.8	1024.3	874.4	704.5	574.1	495.2	446.7
57.5°	551.2	578.3	647.3	760.4	856.9	849.4	707.3	560.4	472.5	413.8	378.7
60°	500.6	527.4	588.0	685.1	758.0	732.5	602.0	483.7	408.4	365.3	337.4
62.5°	453.5	474.4	531.2	602.1	654.5	625.6	514.6	416.7	357.0	320.7	298.5
65°	385.3	402.3	447.8	484.8	514.0	486.1	393.9	325.8	282.8	257.3	242.1
67.5°	320.6	331.4	360.1	373.4	394.0	363.4	296.1	250.7	226.1	204.6	194.0
70°	279.7	287.7	302.8	313.7	319.2	287.7	237.9	204.5	183.9	168.7	162.0
72.5°	239.0	245.9	249.0	257.9	255.1	225.5	191.3	164.7	149.9	139.6	131.0
75°	182.6	185.7	182.6	179.1	171.1	150.5	126.8	113.5	102.5	97.7	94.7
77.5°	133.1	132.2	128.0	122.3	108.9	95.9	83.1	78.6	73.9	71.3	70.3
80°	102.5	100.1	96.5	87.4	75.9	66.8	63.8	60.7	58.9	55.8	55.2
82.5°	76.3	74.9	68.8	61.2	53.1	48.8	46.3	45.1	43.3	41.7	41.6
85°	40.7	38.9	32.2	27.9	26.7	25.5	24.9	24.9	22.5	21.8	21.8
87.5°	13.7	11.3	11.3	10.3	10.8	10.4	11.5	11.1	11.3	11.9	11.1
90°	3.3	5.6	7.9	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.8
92.5°	26.7	28.2	29.8	31.3	33.0	34.7	36.4	38.1	39.8	40.5	41.3
95°	62.8	64.4	66.0	67.6	69.3	71.2	72.9	74.8	76.7	77.6	78.5
97.5°	109.8	111.0	112.2	113.3	114.7	116.0	117.3	118.6	119.9	121.0	122.1
100°	142.3	143.7	145.1	146.4	147.7	148.8	150.0	151.1	152.3	153.0	153.6
102.5°	179.1	179.9	180.7	181.6	182.7	184.2	185.7	187.3	188.8	189.5	190.1
105°	233.5	234.1	234.5	235.0	236.2	238.3	240.4	242.5	244.5	244.5	244.5
107.5°	297.2	297.5	297.7	298.0	298.6	299.4	300.2	301.0	301.9	302.6	303.4
110°	337.2	337.6	338.1	338.6	339.0	339.5	339.9	340.4	340.9	341.8	342.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	378.4	378.7	379.0	379.2	379.4	379.5	379.6	379.7	379.8	380.9	382.0
115°	441.0	441.7	442.4	443.1	443.2	442.7	442.3	441.8	441.4	441.6	441.8
117.5°	503.4	503.8	504.3	504.7	504.7	504.1	503.5	502.9	502.3	502.2	502.2
120°	543.2	544.7	546.0	547.4	547.5	546.4	545.2	544.0	542.9	542.7	542.4
122.5°	583.4	584.5	585.5	586.6	586.7	586.1	585.5	585.0	584.3	583.7	583.2
125°	645.2	645.8	646.5	647.2	647.3	646.8	646.4	646.0	645.5	644.5	643.6
127.5°	703.1	704.5	706.1	707.5	708.0	707.5	706.9	706.5	706.0	704.7	703.4
130°	741.5	743.4	745.3	747.1	747.7	747.0	746.3	745.6	744.9	744.0	743.1
132.5°	779.7	781.6	783.4	785.2	786.0	785.4	784.9	784.3	783.9	782.7	781.7
135°	837.5	838.8	840.3	841.6	842.2	842.0	841.8	841.5	841.2	840.3	839.5
137.5°	891.1	892.2	893.4	894.6	895.5	896.1	896.6	897.2	897.9	896.9	895.9
140°	928.4	929.6	930.8	931.8	932.6	932.8	933.0	933.3	933.5	933.3	933.0
142.5°	962.4	963.6	964.7	965.9	966.6	967.1	967.5	967.9	968.3	968.0	967.9
145°	1014.8	1015.2	1015.7	1016.1	1016.7	1017.4	1018.1	1018.8	1019.5	1019.2	1019.0
147.5°	1061.6	1062.4	1063.2	1064.1	1064.8	1065.4	1066.0	1066.7	1067.4	1067.4	1067.4
150°	1093.5	1094.0	1094.4	1094.9	1095.4	1095.8	1096.3	1096.7	1097.2	1097.2	1097.2
152.5°	1120.3	1120.9	1121.5	1122.1	1122.6	1122.8	1123.2	1123.5	1123.7	1124.1	1124.4
155°	1161.5	1161.5	1161.5	1161.5	1161.5	1161.8	1162.0	1162.3	1162.4	1163.4	1164.3
157.5°	1196.8	1196.5	1196.2	1196.0	1195.9	1196.1	1196.3	1196.5	1196.7	1197.7	1198.5
160°	1219.0	1218.5	1218.1	1217.6	1217.4	1217.4	1217.4	1217.4	1217.4	1218.5	1219.7
162.5°	1238.7	1238.1	1237.4	1236.8	1236.5	1236.7	1236.9	1237.1	1237.2	1238.4	1239.6
165°	1264.4	1263.6	1262.9	1262.3	1261.9	1261.9	1261.9	1261.9	1261.9	1263.3	1264.7
167.5°	1284.6	1283.7	1282.8	1281.8	1281.5	1281.7	1281.8	1282.0	1282.2	1283.6	1285.0
170°	1296.2	1295.3	1294.4	1293.4	1293.0	1293.0	1293.0	1293.0	1293.0	1294.6	1296.2
172.5°	1305.4	1304.4	1303.5	1302.6	1302.2	1302.2	1302.2	1302.2	1302.2	1303.6	1305.0
175°	1314.9	1313.9	1313.0	1312.2	1311.6	1311.6	1311.6	1311.6	1311.6	1313.0	1314.4
177.5°	1319.0	1318.3	1317.5	1316.8	1316.4	1316.4	1316.4	1316.4	1316.4	1317.5	1318.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1495.2	1495.2	1497.2	1504.5	1505.5	1511.7	1509.8
5°	1643.3	1654.8	1659.1	1677.3	1688.2	1693.1	1683.4
7.5°	1824.4	1856.9	1872.3	1891.4	1908.3	1913.3	1900.1
10°	1956.4	1990.4	2018.9	2036.6	2052.9	2063.9	2077.8
12.5°	2084.1	2125.8	2152.9	2177.8	2194.7	2208.5	2210.8
15°	2222.9	2286.0	2333.9	2369.1	2386.7	2395.8	2392.2
17.5°	2362.8	2421.3	2455.4	2491.4	2515.7	2516.9	2517.7
20°	2442.0	2498.9	2538.4	2565.1	2592.4	2591.2	2597.3
22.5°	2494.8	2539.8	2570.0	2589.3	2598.7	2594.1	2595.3
25°	2519.6	2532.9	2527.5	2496.5	2488.7	2460.1	2465.0
27.5°	2391.9	2328.8	2263.5	2179.5	2113.3	2060.3	2063.0
30°	2218.6	2106.9	1979.5	1872.7	1776.8	1750.2	1693.1
32.5°	1976.4	1808.8	1659.6	1560.0	1477.7	1455.5	1405.7
35°	1565.7	1403.0	1249.5	1157.3	1120.8	1069.9	1069.3
37.5°	1216.9	1073.7	992.6	923.4	887.1	856.2	853.2
40°	1023.8	912.0	850.8	801.0	765.3	742.2	736.7
42.5°	888.8	798.4	741.1	710.2	682.7	670.8	661.9
45°	725.8	665.1	625.0	597.1	584.4	575.2	570.4
47.5°	607.1	566.4	539.1	520.6	510.2	500.6	503.2
50°	542.5	509.2	489.1	471.5	463.6	456.9	457.5
52.5°	490.5	460.6	444.4	431.7	421.9	417.1	414.8
55°	416.3	397.4	381.1	372.0	366.5	359.9	358.0
57.5°	355.1	340.5	327.2	316.9	315.6	309.2	310.0
60°	314.3	302.2	291.3	285.8	281.6	276.1	277.9
62.5°	280.9	270.6	260.7	256.2	252.0	248.0	248.8
65°	230.0	220.3	214.2	211.8	210.0	208.1	206.3
67.5°	183.2	177.4	173.5	168.4	164.6	164.0	162.1
70°	154.2	146.2	139.6	132.9	131.1	130.5	131.1
72.5°	123.6	118.6	116.7	113.5	113.2	111.6	112.6
75°	92.8	91.0	89.8	87.4	87.4	87.4	87.4
77.5°	68.5	67.3	66.6	66.2	65.5	64.6	64.6
80°	53.4	52.8	51.5	51.5	51.0	51.5	51.0
82.5°	40.3	40.2	39.0	39.0	38.3	38.0	38.3
85°	20.6	20.1	21.2	20.1	20.6	19.4	20.6
87.5°	11.3	11.5	11.1	11.3	10.9	11.9	11.1
90°	27.6	28.5	29.2	29.7	30.1	30.6	31.1
92.5°	42.0	42.7	43.0	42.7	42.4	42.1	41.8
95°	79.5	80.3	80.8	80.8	80.8	80.8	80.8
97.5°	123.1	124.2	124.7	124.6	124.5	124.4	124.3
100°	154.4	155.1	155.6	156.1	156.6	157.0	157.5
102.5°	190.8	191.5	191.8	191.7	191.6	191.5	191.5
105°	244.5	244.5	244.8	245.2	245.7	246.1	246.6
107.5°	304.2	304.9	305.1	304.8	304.5	304.3	304.0
110°	343.7	344.6	344.7	344.3	343.8	343.4	343.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	383.2	384.2	384.8	384.7	384.6	384.5	384.4
115°	442.0	442.3	442.3	442.0	441.8	441.6	441.4
117.5°	502.1	502.1	501.8	501.1	500.4	499.8	499.2
120°	542.2	542.0	541.6	541.2	540.7	540.3	539.8
122.5°	582.6	581.9	581.3	580.7	580.1	579.3	578.7
125°	642.7	641.8	640.9	640.0	639.0	638.1	637.2
127.5°	702.1	700.8	699.6	698.6	697.5	696.4	695.4
130°	742.2	741.3	739.9	738.3	736.7	735.1	733.5
132.5°	780.6	779.4	778.3	777.0	775.8	774.5	773.3
135°	838.5	837.6	836.9	836.4	836.0	835.5	835.1
137.5°	894.9	893.9	893.0	892.2	891.4	890.5	889.6
140°	932.8	932.6	931.7	930.1	928.4	926.8	925.2
142.5°	967.6	967.4	966.6	965.4	964.1	963.0	961.7
145°	1018.8	1018.6	1018.0	1017.1	1016.1	1015.2	1014.3
147.5°	1067.4	1067.4	1066.7	1065.2	1063.9	1062.5	1061.1
150°	1097.2	1097.2	1096.5	1095.1	1093.8	1092.3	1091.0
152.5°	1124.8	1125.2	1124.8	1123.6	1122.4	1121.1	1120.0
155°	1165.2	1166.2	1165.8	1164.2	1162.6	1161.0	1159.3
157.5°	1199.5	1200.5	1200.3	1199.1	1197.7	1196.5	1195.2
160°	1220.8	1222.0	1222.1	1221.2	1220.2	1219.3	1218.4
162.5°	1240.7	1241.9	1241.7	1240.2	1238.8	1237.2	1235.8
165°	1266.1	1267.5	1267.3	1265.7	1264.1	1262.5	1260.9
167.5°	1286.5	1287.9	1287.9	1286.5	1285.0	1283.6	1282.2
170°	1297.9	1299.5	1299.5	1297.9	1296.2	1294.6	1293.0
172.5°	1306.4	1307.9	1307.8	1306.1	1304.5	1302.9	1301.3
175°	1315.8	1317.1	1317.1	1315.5	1313.8	1312.2	1310.6
177.5°	1319.7	1320.8	1320.7	1319.5	1318.1	1316.9	1315.6
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9

(END OF REPORT)