

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: P332974

Luminaire Tested: **SA4XXRDIP-C1020D1035U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332974
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D1035U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

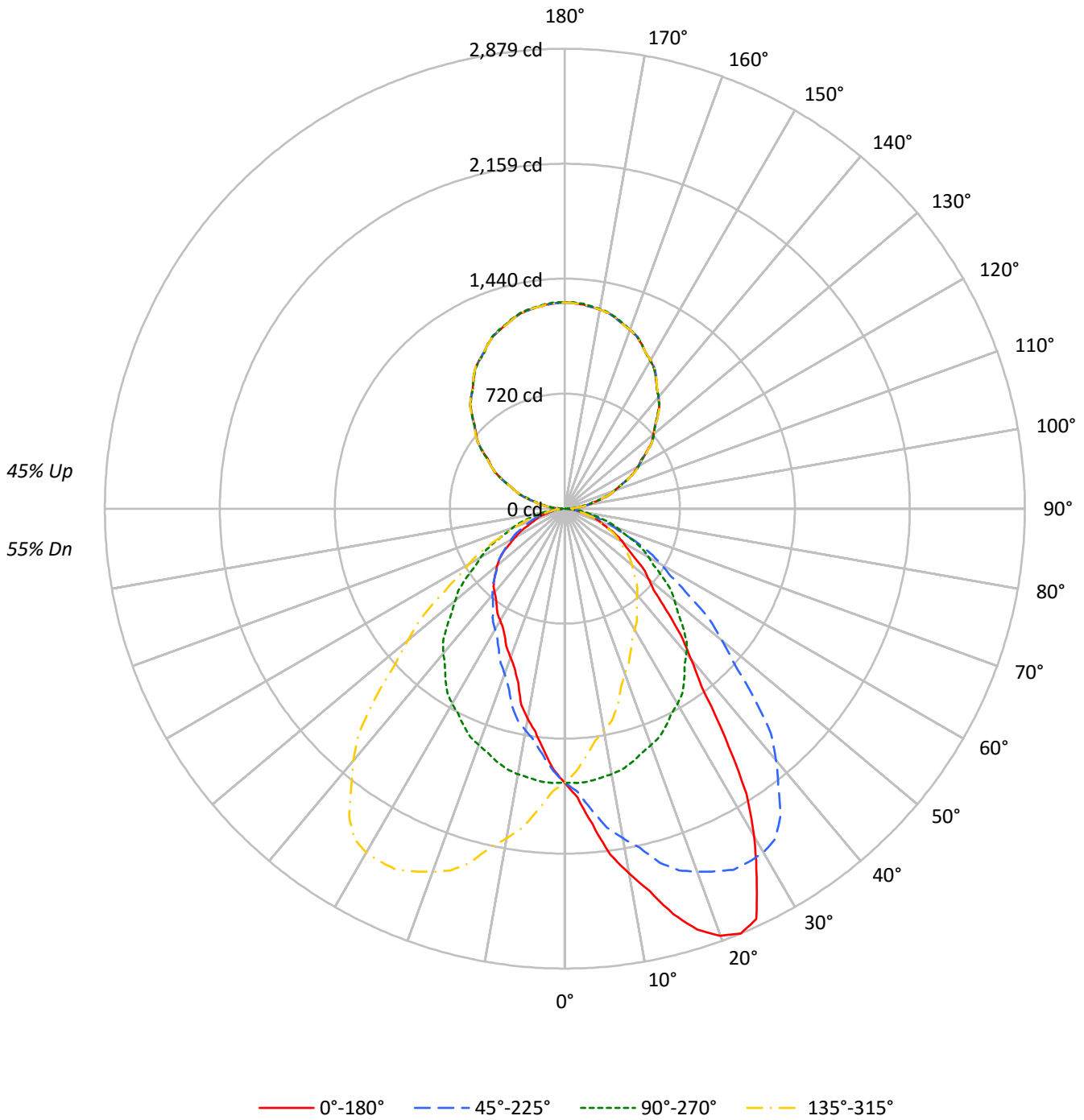
Lumens per Lamp: N/A
Luminaire Lumens: 7921.7 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	54	53	52	47
2	91	84	78	73	84	78	73	68	67	63	60	57	55	52	48	46	45	40
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	39	35
4	76	66	58	52	71	62	55	49	53	48	44	46	42	39	39	36	34	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	30	26
6	65	53	45	39	60	50	43	37	43	38	34	38	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13852	13852	13852	13852
5°	16067	13893	12280	13893
10°	19007	13833	10960	13833
15°	21956	13705	9417	13705
20°	24445	13529	8516	13529
25°	25235	13356	7906	13356
30°	22091	13147	7539	13147
35°	17196	12835	7318	12835
40°	12895	12480	7198	12480
45°	10182	11910	7134	11910
50°	8596	11252	6929	11252
55°	7492	10528	6557	10528
60°	6741	9778	5804	9778
65°	5943	8967	4991	8967
70°	5351	8127	4504	8127
75°	4485	7202	3840	7202
80°	3794	6137	3598	6137
85°	3205	4798	3205	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.1
10°-20°	501.5	6.3
20°-30°	784.4	9.9
30°-40°	872.0	11.0
40°-50°	773.6	9.8
50°-60°	602.8	7.6
60°-70°	394.7	5.0
70°-80°	194.1	2.5
80°-90°	51.8	0.7
90°-100°	85.1	1.1
100°-110°	252.2	3.2
110°-120°	428.0	5.4
120°-130°	564.3	7.1
130°-140°	633.8	8.0
140°-150°	622.8	7.9
150°-160°	523.8	6.6
160°-170°	348.5	4.4
170°-180°	122.0	1.5
0°-30°	1452.1	18.3
0°-40°	2324.1	29.3
0°-60°	3700.5	46.7
0°-90°	4341.0	54.8
90°-120°	765.3	9.7
90°-150°	2586.3	32.6
90°-180°	3581.0	45.2
0°-180°	7921.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1716	1716	1716	1716	1716	
5°	1983	1714	1515	1714	1983	201
15°	2627	1640	1127	1640	2627	747
25°	2833	1499	888	1499	2833	1257
35°	1745	1302	742	1302	1745	1094
45°	892	1043	625	1043	892	706
55°	532	748	466	748	532	484
65°	311	469	261	469	311	313
75°	144	231	123	231	144	158
85°	35	52	35	52	35	40
90°	30	3	30	3	30	17
95°	79	60	79	60	79	82
105°	244	233	244	233	244	257
115°	431	435	431	435	431	426
125°	629	634	629	634	629	561
135°	818	818	818	818	818	632
145°	994	993	994	993	994	622
155°	1137	1138	1137	1138	1137	523
165°	1236	1239	1236	1239	1236	348
175°	1283	1289	1283	1289	1283	122
180°	1291	1291	1291	1291	1291	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1809.8	1814.8	1809.8	1809.3	1803.8	1802.1	1799.9	1792.7	1779.4	1771.7	1773.3
5°	1982.7	1999.9	1990.3	1988.9	1973.7	1958.5	1948.8	1926.7	1903.2	1887.3	1874.1
7.5°	2182.6	2192.5	2186.5	2176.8	2152.2	2138.2	2115.8	2086.6	2044.5	2012.2	1982.8
10°	2318.6	2326.9	2324.2	2306.2	2288.2	2251.6	2230.8	2190.1	2136.8	2094.7	2055.2
12.5°	2452.5	2461.3	2437.0	2437.8	2403.8	2374.9	2342.0	2290.7	2229.2	2174.8	2125.5
15°	2627.0	2615.9	2615.9	2602.1	2564.0	2524.0	2490.1	2436.2	2358.7	2293.7	2225.3
17.5°	2763.6	2767.4	2761.8	2729.1	2699.3	2657.8	2595.7	2532.8	2460.9	2373.7	2303.7
20°	2845.4	2845.4	2839.2	2817.1	2778.4	2734.1	2667.1	2598.6	2507.4	2419.6	2340.8
22.5°	2878.6	2880.8	2873.5	2855.2	2820.4	2777.2	2720.1	2650.6	2556.6	2457.7	2360.1
25°	2833.0	2846.1	2847.5	2842.6	2832.3	2806.0	2756.9	2685.7	2601.4	2494.2	2389.1
27.5°	2601.0	2617.6	2632.1	2656.0	2687.8	2704.4	2706.6	2670.4	2596.8	2493.7	2387.9
30°	2369.8	2383.6	2428.6	2487.3	2532.9	2574.4	2610.4	2620.0	2578.6	2485.9	2374.6
32.5°	2113.2	2132.0	2176.9	2240.1	2316.1	2386.4	2467.1	2508.3	2507.2	2451.6	2348.6
35°	1744.9	1758.7	1800.2	1866.5	1957.8	2062.2	2190.1	2289.6	2357.3	2352.5	2289.6
37.5°	1407.2	1422.8	1464.7	1519.8	1608.3	1737.5	1861.3	1998.4	2123.7	2194.1	2173.0
40°	1223.6	1224.3	1265.1	1321.8	1404.7	1517.4	1652.2	1804.3	1943.9	2058.0	2080.1
42.5°	1078.7	1078.8	1105.8	1166.9	1226.7	1332.7	1461.4	1612.4	1775.8	1907.6	1966.2
45°	891.8	898.0	920.1	956.8	1003.8	1093.6	1196.6	1337.0	1520.2	1676.4	1773.9
47.5°	755.2	764.3	778.4	808.3	845.7	905.6	990.8	1116.9	1265.9	1437.8	1576.5
50°	684.4	685.8	703.7	720.3	752.8	800.5	875.2	980.3	1117.1	1282.4	1436.5
52.5°	623.6	623.3	634.1	655.1	681.5	718.7	779.0	874.6	996.0	1144.1	1303.2
55°	532.3	535.8	544.1	560.6	580.7	607.0	654.7	726.6	822.0	948.5	1093.0
57.5°	462.9	464.7	471.2	478.2	496.6	515.7	551.5	601.4	681.9	785.5	920.1
60°	417.5	418.2	420.3	430.7	445.2	463.2	487.4	529.5	597.3	692.0	798.5
62.5°	373.3	374.5	377.7	385.3	396.5	409.0	434.3	468.2	524.3	605.2	701.1
65°	311.1	311.8	316.6	319.4	328.4	339.4	358.1	380.9	419.6	487.4	560.0
67.5°	259.9	259.9	260.2	263.9	270.2	277.5	288.7	306.9	336.1	377.7	441.7
70°	226.7	226.7	228.1	230.2	233.7	239.9	246.1	259.9	281.4	315.2	364.3
72.5°	195.8	196.3	197.7	198.1	199.9	205.0	209.6	218.5	234.4	259.9	299.6
75°	143.8	145.9	149.3	152.1	155.5	154.9	159.7	165.2	170.1	185.3	208.1
77.5°	107.0	105.9	106.3	108.7	109.1	109.8	113.2	117.5	121.1	128.3	136.5
80°	81.6	81.6	83.6	84.3	83.6	84.3	87.8	89.9	91.3	94.0	101.6
82.5°	61.7	62.8	62.1	62.8	63.2	63.9	66.8	67.2	68.6	69.7	72.9
85°	34.6	35.3	35.9	34.6	34.6	34.6	35.9	36.6	38.0	37.3	38.7
87.5°	18.2	17.5	18.0	17.9	18.4	17.6	17.9	18.8	17.4	17.7	17.3
90°	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6	23.3	22.0	20.2
92.5°	44.3	44.1	43.8	43.5	43.3	42.7	41.9	41.1	40.3	39.5	38.3
95°	78.9	78.9	78.9	78.9	78.9	78.5	77.9	77.2	76.5	75.9	74.3
97.5°	123.6	123.6	123.6	123.6	123.6	123.2	122.4	121.6	120.8	120.0	118.2
100°	154.7	154.7	154.7	154.7	154.7	154.5	154.0	153.6	153.2	152.7	150.7
102.5°	189.8	189.7	189.5	189.3	189.1	188.7	188.1	187.5	186.9	186.3	184.4
105°	243.5	242.9	242.2	241.5	240.9	240.2	239.6	238.9	238.2	237.6	236.7
107.5°	295.8	295.9	295.9	296.0	296.0	295.7	295.1	294.5	293.9	293.3	293.1
110°	333.4	332.7	332.0	331.4	330.7	330.6	331.0	331.5	331.9	332.4	332.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	371.7	371.6	371.4	371.3	371.2	371.2	371.2	371.3	371.4	371.5	371.9
115°	431.2	431.4	431.6	431.9	432.1	432.3	432.5	432.7	433.0	433.2	433.6
117.5°	487.9	488.3	488.8	489.2	489.7	490.3	491.0	491.8	492.5	493.3	493.6
120°	531.0	530.6	530.1	529.7	529.2	529.6	530.7	531.8	532.9	534.0	534.7
122.5°	566.9	567.7	568.5	569.3	570.1	570.9	571.7	572.4	573.2	573.9	574.2
125°	628.8	629.3	629.7	630.2	630.6	631.0	631.5	631.9	632.4	632.8	633.0
127.5°	686.1	686.5	686.8	687.2	687.5	687.9	688.4	688.8	689.3	689.7	690.1
130°	723.6	724.5	725.4	726.3	727.2	727.9	728.3	728.8	729.2	729.6	729.6
132.5°	763.6	763.9	764.3	764.6	765.0	765.4	765.8	766.3	766.7	767.2	767.3
135°	818.5	819.1	819.8	820.5	821.1	821.7	822.1	822.6	823.0	823.5	823.5
137.5°	876.2	876.0	875.9	875.8	875.6	875.9	876.4	877.0	877.6	878.2	877.8
140°	911.3	911.5	911.7	912.0	912.2	912.4	912.6	912.9	913.1	913.3	913.3
142.5°	946.4	946.5	946.5	946.6	946.6	946.7	946.7	946.7	946.8	946.8	947.0
145°	994.1	994.8	995.5	996.1	996.8	997.2	997.5	997.7	997.9	998.1	997.9
147.5°	1042.5	1042.7	1042.9	1043.1	1043.3	1043.5	1043.7	1043.9	1044.1	1044.3	1044.4
150°	1072.0	1072.2	1072.4	1072.7	1072.9	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
152.5°	1099.1	1099.7	1100.3	1100.9	1101.5	1101.5	1100.9	1100.4	1099.9	1099.3	1099.2
155°	1136.9	1137.8	1138.7	1139.5	1140.4	1140.4	1139.5	1138.7	1137.8	1136.9	1137.1
157.5°	1170.6	1171.4	1172.1	1172.9	1173.6	1173.7	1173.0	1172.3	1171.7	1171.0	1171.1
160°	1189.8	1190.9	1192.0	1193.1	1194.2	1194.4	1193.8	1193.1	1192.4	1191.8	1192.0
162.5°	1209.7	1210.9	1212.0	1213.1	1214.2	1214.1	1212.9	1211.7	1210.5	1209.3	1209.6
165°	1235.7	1236.6	1237.5	1238.4	1239.2	1239.0	1237.7	1236.4	1235.0	1233.7	1234.1
167.5°	1254.3	1255.6	1257.0	1258.4	1259.8	1259.8	1258.5	1257.1	1255.8	1254.5	1254.4
170°	1264.6	1266.2	1267.7	1269.3	1270.8	1271.0	1269.6	1268.3	1267.0	1265.6	1265.4
172.5°	1273.4	1275.0	1276.5	1278.1	1279.6	1279.7	1278.1	1276.6	1275.1	1273.6	1273.6
175°	1282.6	1284.2	1285.7	1287.3	1288.8	1288.8	1287.3	1285.7	1284.2	1282.6	1282.8
177.5°	1287.4	1288.8	1290.2	1291.7	1293.1	1293.2	1291.9	1290.7	1289.4	1288.2	1288.2
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1767.8	1760.1	1756.2	1747.3	1736.8	1731.3	1726.3	1719.1	1709.7	1699.8	1692.6
5°	1857.5	1840.9	1820.2	1795.3	1773.2	1751.8	1733.1	1714.4	1693.0	1670.9	1648.8
7.5°	1949.6	1917.0	1881.7	1840.9	1801.3	1765.2	1732.0	1700.2	1664.2	1632.0	1602.7
10°	2013.8	1969.5	1920.4	1868.6	1816.7	1771.8	1727.6	1687.5	1643.2	1603.8	1570.6
12.5°	2065.8	2013.8	1954.7	1890.2	1827.8	1773.5	1722.6	1670.3	1620.0	1577.3	1533.0
15°	2152.0	2080.8	2001.3	1923.9	1843.0	1769.0	1700.6	1639.8	1582.4	1522.3	1480.1
17.5°	2211.3	2126.9	2030.2	1937.2	1841.6	1754.4	1675.4	1603.0	1536.8	1475.4	1425.2
20°	2246.7	2153.4	2046.3	1940.5	1833.3	1740.0	1655.0	1574.8	1506.4	1440.0	1388.1
22.5°	2266.6	2163.4	2046.3	1935.5	1824.5	1723.4	1630.1	1546.6	1472.1	1405.7	1348.3
25°	2273.0	2162.4	2042.8	1915.6	1793.9	1686.8	1590.0	1499.4	1416.5	1350.1	1289.3
27.5°	2264.2	2133.9	2011.4	1880.9	1755.4	1642.4	1540.8	1445.7	1362.6	1291.4	1229.0
30°	2250.9	2111.2	1979.9	1844.4	1717.2	1608.7	1501.5	1410.3	1323.8	1249.9	1187.0
32.5°	2222.1	2083.6	1942.3	1803.5	1674.6	1562.8	1461.1	1369.3	1284.6	1209.0	1142.2
35°	2165.2	2024.8	1871.4	1729.0	1602.4	1486.3	1390.9	1302.4	1221.5	1140.7	1070.1
37.5°	2090.1	1946.7	1794.1	1638.1	1511.5	1401.8	1314.3	1231.2	1152.3	1078.4	1000.3
40°	2019.3	1888.6	1731.0	1576.2	1446.2	1340.4	1259.6	1184.2	1104.7	1031.4	953.3
42.5°	1933.6	1822.3	1663.0	1507.6	1379.3	1277.4	1202.0	1128.3	1056.0	985.0	903.5
45°	1790.5	1706.1	1556.8	1407.5	1278.2	1177.3	1108.2	1043.2	979.6	911.8	835.1
47.5°	1626.5	1569.4	1440.5	1287.6	1168.0	1077.2	1010.4	957.3	903.5	835.8	768.5
50°	1512.6	1475.9	1351.5	1211.9	1097.8	1014.1	945.7	895.9	851.0	786.0	725.9
52.5°	1390.9	1371.4	1266.3	1132.8	1022.6	940.6	882.1	837.3	791.8	737.9	681.6
55°	1205.6	1216.0	1126.8	1011.4	907.7	838.6	785.3	748.0	709.3	663.7	620.1
57.5°	1016.2	1054.1	994.2	892.9	795.7	731.8	691.7	660.3	627.8	590.0	552.8
60°	902.8	934.6	900.8	811.6	726.6	667.1	629.8	605.6	573.1	538.5	510.2
62.5°	792.2	826.2	806.2	734.2	655.2	604.1	571.2	548.6	524.4	494.3	464.8
65°	653.3	675.4	665.7	616.0	560.0	516.4	486.0	469.4	447.3	425.2	398.9
67.5°	500.4	543.1	537.4	511.0	462.6	428.6	408.7	394.0	373.9	357.4	339.6
70°	411.3	450.7	450.0	428.6	402.3	370.5	356.7	344.3	326.3	310.4	295.9
72.5°	336.7	372.8	378.1	361.7	343.7	319.7	306.4	297.8	280.4	269.5	257.7
75°	235.7	262.0	268.9	268.9	260.6	248.2	236.4	230.9	218.5	208.8	201.9
77.5°	154.6	171.2	182.0	184.4	185.7	181.5	171.9	168.0	158.4	155.0	148.4
80°	109.2	120.3	132.7	136.9	140.3	139.0	134.8	132.0	123.1	119.6	116.8
82.5°	75.5	81.6	91.8	100.9	100.0	103.6	100.0	97.8	91.0	89.7	87.0
85°	39.4	40.1	41.5	47.7	51.2	52.5	53.2	51.8	49.8	49.8	44.9
87.5°	17.0	16.0	16.8	16.4	16.4	18.2	19.3	19.4	18.2	17.1	15.9
90°	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0	5.4	7.9	10.3
92.5°	37.0	35.8	34.6	32.5	29.7	26.9	24.2	21.4	24.2	26.9	29.7
95°	72.8	71.2	69.6	67.9	65.9	63.9	61.9	59.9	61.9	63.9	65.9
97.5°	116.3	114.5	112.7	111.0	109.4	107.8	106.2	104.6	106.2	107.8	109.4
100°	148.7	146.7	144.7	143.3	142.4	141.5	140.6	139.7	140.6	141.5	142.4
102.5°	182.6	180.8	179.0	177.9	177.5	177.2	176.8	176.5	176.8	177.2	177.5
105°	235.8	234.9	234.0	233.5	233.2	233.0	232.8	232.6	232.8	233.0	233.2
107.5°	293.0	292.9	292.7	292.5	292.3	292.0	291.7	291.5	291.7	292.0	292.3
110°	332.8	333.0	333.3	333.2	332.7	332.3	331.8	331.4	331.8	332.3	332.7



TEST NUMBER: P332974

CATALOG NUMBER: SA4XXRDIP-C1020D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	372.3	372.7	373.1	373.3	373.2	373.1	373.0	372.9	373.0	373.1	373.2
115°	434.1	434.5	435.0	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2
117.5°	493.9	494.2	494.5	494.6	494.4	494.2	494.1	493.9	494.1	494.2	494.4
120°	535.3	536.0	536.7	536.6	535.7	534.8	533.9	533.0	533.9	534.8	535.7
122.5°	574.5	574.9	575.2	575.1	574.8	574.4	574.1	573.7	574.1	574.4	574.8
125°	633.3	633.5	633.7	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8
127.5°	690.4	690.8	691.1	691.0	690.3	689.6	689.0	688.3	689.0	689.6	690.3
130°	729.6	729.6	729.6	729.3	728.6	728.0	727.3	726.6	727.3	728.0	728.6
132.5°	767.5	767.7	767.9	767.7	767.2	766.7	766.3	765.8	766.3	766.7	767.2
135°	823.5	823.5	823.5	822.8	821.5	820.1	818.8	817.5	818.8	820.1	821.5
137.5°	877.5	877.1	876.7	876.3	875.6	875.0	874.4	873.8	874.4	875.0	875.6
140°	913.3	913.3	913.3	913.1	912.6	912.2	911.7	911.3	911.7	912.2	912.6
142.5°	947.2	947.4	947.5	947.4	947.0	946.5	946.1	945.6	946.1	946.5	947.0
145°	997.7	997.5	997.2	996.7	995.8	994.9	994.0	993.1	994.0	994.9	995.8
147.5°	1044.6	1044.8	1045.0	1044.5	1043.5	1042.4	1041.3	1040.3	1041.3	1042.4	1043.5
150°	1073.0	1073.0	1073.0	1072.6	1071.7	1070.8	1069.9	1069.0	1069.9	1070.8	1071.7
152.5°	1099.0	1098.8	1098.6	1098.3	1097.8	1097.2	1096.7	1096.2	1096.7	1097.2	1097.8
155°	1137.3	1137.5	1137.8	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
157.5°	1171.1	1171.1	1171.2	1171.4	1171.8	1172.2	1172.6	1173.0	1172.6	1172.2	1171.8
160°	1192.2	1192.4	1192.7	1192.9	1193.1	1193.3	1193.5	1193.8	1193.5	1193.3	1193.1
162.5°	1209.8	1210.0	1210.2	1210.6	1211.2	1211.8	1212.4	1212.9	1212.4	1211.8	1211.2
165°	1234.6	1235.0	1235.5	1236.0	1236.7	1237.4	1238.0	1238.7	1238.0	1237.4	1236.7
167.5°	1254.4	1254.3	1254.3	1254.7	1255.7	1256.6	1257.5	1258.5	1257.5	1256.6	1255.7
170°	1265.2	1265.0	1264.7	1265.2	1266.3	1267.4	1268.5	1269.6	1268.5	1267.4	1266.3
172.5°	1273.5	1273.5	1273.4	1273.9	1274.8	1275.8	1276.7	1277.6	1276.7	1275.8	1274.8
175°	1283.0	1283.3	1283.5	1284.2	1285.3	1286.4	1287.5	1288.6	1287.5	1286.4	1285.3
177.5°	1288.2	1288.2	1288.2	1288.6	1289.5	1290.4	1291.3	1292.2	1291.3	1290.4	1289.5
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



TEST NUMBER: P332974

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1684.8	1679.3	1672.1	1663.8	1653.9	1645.0	1641.2	1644.5	1646.1	1641.7	1641.2
5°	1633.6	1616.3	1602.4	1581.7	1565.1	1551.3	1541.6	1537.5	1538.8	1527.8	1525.0
7.5°	1575.9	1555.4	1532.8	1508.1	1485.2	1464.9	1454.2	1448.4	1436.7	1431.7	1423.3
10°	1538.8	1511.2	1489.1	1460.0	1433.8	1409.6	1397.8	1388.1	1376.4	1370.9	1359.1
12.5°	1500.7	1468.6	1444.3	1414.1	1387.3	1358.1	1346.9	1329.0	1310.6	1299.0	1283.9
15°	1446.9	1408.2	1378.5	1342.5	1310.7	1277.5	1247.8	1214.6	1202.2	1175.9	1160.7
17.5°	1384.0	1344.7	1307.9	1259.7	1210.6	1169.4	1137.7	1105.9	1086.9	1070.1	1062.4
20°	1342.5	1306.6	1255.4	1199.4	1144.8	1099.2	1073.6	1052.9	1032.1	1020.4	1012.1
22.5°	1303.2	1257.3	1197.9	1137.5	1082.9	1047.2	1025.5	1004.2	987.3	976.1	965.1
25°	1237.4	1177.3	1114.4	1045.3	1007.9	976.8	953.3	936.0	925.7	911.1	905.6
27.5°	1169.8	1097.0	1027.6	981.1	942.2	913.8	893.3	880.3	867.2	857.9	850.7
30°	1117.8	1043.9	981.7	937.4	898.0	874.5	857.9	842.7	832.3	824.7	819.2
32.5°	1066.4	992.4	940.2	892.6	861.5	838.6	820.9	809.5	801.4	791.5	788.2
35°	992.0	926.3	880.7	837.9	806.1	785.3	771.5	759.7	752.8	750.1	748.0
37.5°	920.5	866.8	817.7	782.6	754.2	737.9	721.6	715.8	711.1	706.1	708.3
40°	875.2	824.7	781.2	743.8	721.0	703.1	693.4	686.5	682.3	682.3	682.3
42.5°	835.9	786.6	744.1	710.7	687.8	672.6	661.9	656.0	654.7	654.1	657.4
45°	775.0	729.3	686.5	658.8	639.5	624.2	618.0	613.2	613.2	616.0	616.6
47.5°	714.5	671.8	637.4	606.4	588.7	579.2	573.8	571.3	571.6	574.3	577.5
50°	677.5	635.3	601.4	573.8	557.2	548.2	543.4	542.0	543.4	543.4	548.2
52.5°	637.1	599.4	566.0	542.8	524.0	515.6	512.9	511.0	511.8	514.1	516.1
55°	577.9	544.1	512.3	490.1	476.3	470.8	464.6	465.2	463.9	465.2	465.2
57.5°	518.6	488.2	458.6	441.1	428.9	420.9	414.1	416.0	414.0	413.7	412.6
60°	480.5	447.3	423.8	407.9	394.0	387.1	380.9	382.3	380.2	378.8	376.1
62.5°	439.0	411.3	388.9	373.6	362.5	354.5	348.3	346.9	342.1	337.4	331.3
65°	378.8	356.0	336.0	321.5	311.1	304.9	300.0	295.9	285.5	274.4	268.9
67.5°	320.4	303.9	285.2	272.9	264.5	256.3	247.1	240.0	230.3	224.3	220.8
70°	282.7	266.8	250.9	239.2	230.2	222.6	212.2	207.4	200.5	197.7	194.3
72.5°	246.8	232.0	217.2	206.6	197.0	191.1	182.9	178.1	175.0	173.9	170.5
75°	192.2	180.4	169.4	159.7	152.1	147.9	144.5	141.0	139.6	133.4	130.0
77.5°	140.2	132.5	125.5	118.6	113.2	110.5	103.8	99.8	97.5	94.6	93.9
80°	109.2	103.7	96.8	92.6	85.0	82.3	79.5	78.8	78.1	77.4	76.7
82.5°	82.1	76.6	69.7	67.2	65.1	63.5	61.8	61.1	60.4	60.8	60.7
85°	41.5	38.7	38.7	38.0	37.3	36.6	35.9	35.9	35.3	35.9	35.3
87.5°	16.4	16.2	16.6	15.8	16.8	17.1	16.8	17.1	17.9	17.1	17.2
90°	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6	26.0	27.3	28.2
92.5°	32.5	34.6	35.8	37.0	38.3	39.5	40.3	41.1	41.9	42.7	43.3
95°	67.9	69.6	71.2	72.8	74.3	75.9	76.5	77.2	77.9	78.5	78.9
97.5°	111.0	112.7	114.5	116.3	118.2	120.0	120.8	121.6	122.4	123.2	123.6
100°	143.3	144.7	146.7	148.7	150.7	152.7	153.2	153.6	154.0	154.5	154.7
102.5°	177.9	179.0	180.8	182.6	184.4	186.3	186.9	187.5	188.1	188.7	189.1
105°	233.5	234.0	234.9	235.8	236.7	237.6	238.2	238.9	239.6	240.2	240.9
107.5°	292.5	292.7	292.9	293.0	293.1	293.3	293.9	294.5	295.1	295.7	296.0
110°	333.2	333.3	333.0	332.8	332.6	332.4	331.9	331.5	331.0	330.6	330.7



TEST NUMBER: P332974

CATALOG NUMBER: SA4XXRDIP-C1020D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	373.3	373.1	372.7	372.3	371.9	371.5	371.4	371.3	371.2	371.2	371.2
115°	435.2	435.0	434.5	434.1	433.6	433.2	433.0	432.7	432.5	432.3	432.1
117.5°	494.6	494.5	494.2	493.9	493.6	493.3	492.5	491.8	491.0	490.3	489.7
120°	536.6	536.7	536.0	535.3	534.7	534.0	532.9	531.8	530.7	529.6	529.2
122.5°	575.1	575.2	574.9	574.5	574.2	573.9	573.2	572.4	571.7	570.9	570.1
125°	633.8	633.7	633.5	633.3	633.0	632.8	632.4	631.9	631.5	631.0	630.6
127.5°	691.0	691.1	690.8	690.4	690.1	689.7	689.3	688.8	688.4	687.9	687.5
130°	729.3	729.6	729.6	729.6	729.6	729.6	729.2	728.8	728.3	727.9	727.2
132.5°	767.7	767.9	767.7	767.5	767.3	767.2	766.7	766.3	765.8	765.4	765.0
135°	822.8	823.5	823.5	823.5	823.5	823.5	823.0	822.6	822.1	821.7	821.1
137.5°	876.3	876.7	877.1	877.5	877.8	878.2	877.6	877.0	876.4	875.9	875.6
140°	913.1	913.3	913.3	913.3	913.3	913.3	913.1	912.9	912.6	912.4	912.2
142.5°	947.4	947.5	947.4	947.2	947.0	946.8	946.8	946.7	946.7	946.7	946.6
145°	996.7	997.2	997.5	997.7	997.9	998.1	997.9	997.7	997.5	997.2	996.8
147.5°	1044.5	1045.0	1044.8	1044.6	1044.4	1044.3	1044.1	1043.9	1043.7	1043.5	1043.3
150°	1072.6	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1072.9
152.5°	1098.3	1098.6	1098.8	1099.0	1099.2	1099.3	1099.9	1100.4	1100.9	1101.5	1101.5
155°	1137.9	1137.8	1137.5	1137.3	1137.1	1136.9	1137.8	1138.7	1139.5	1140.4	1140.4
157.5°	1171.4	1171.2	1171.1	1171.1	1171.1	1171.0	1171.7	1172.3	1173.0	1173.7	1173.6
160°	1192.9	1192.7	1192.4	1192.2	1192.0	1191.8	1192.4	1193.1	1193.8	1194.4	1194.2
162.5°	1210.6	1210.2	1210.0	1209.8	1209.6	1209.3	1210.5	1211.7	1212.9	1214.1	1214.2
165°	1236.0	1235.5	1235.0	1234.6	1234.1	1233.7	1235.0	1236.4	1237.7	1239.0	1239.2
167.5°	1254.7	1254.3	1254.3	1254.4	1254.4	1254.5	1255.8	1257.1	1258.5	1259.8	1259.8
170°	1265.2	1264.7	1265.0	1265.2	1265.4	1265.6	1267.0	1268.3	1269.6	1271.0	1270.8
172.5°	1273.9	1273.4	1273.5	1273.5	1273.6	1273.6	1275.1	1276.6	1278.1	1279.7	1279.6
175°	1284.2	1283.5	1283.3	1283.0	1282.8	1282.6	1284.2	1285.7	1287.3	1288.8	1288.8
177.5°	1288.6	1288.2	1288.2	1288.2	1288.2	1288.2	1289.4	1290.7	1291.9	1293.2	1293.1
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



TEST NUMBER: P332974

CATALOG NUMBER: SA4XXRDIP-C1020D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1637.8	1638.9	1635.1	1634.0	1635.1	1638.9	1637.8	1641.2	1641.7	1646.1	1644.5
5°	1519.5	1518.1	1514.6	1515.3	1514.6	1518.1	1519.5	1525.0	1527.8	1538.8	1537.5
7.5°	1418.3	1412.9	1414.4	1408.9	1414.4	1412.9	1418.3	1423.3	1431.7	1436.7	1448.4
10°	1356.3	1348.7	1342.5	1337.0	1342.5	1348.7	1356.3	1359.1	1370.9	1376.4	1388.1
12.5°	1271.7	1265.2	1256.8	1258.5	1256.8	1265.2	1271.7	1283.9	1299.0	1310.6	1329.0
15°	1151.7	1141.3	1124.8	1126.8	1124.8	1141.3	1151.7	1160.7	1175.9	1202.2	1214.6
17.5°	1050.1	1050.2	1042.6	1044.4	1042.6	1050.2	1050.1	1062.4	1070.1	1086.9	1105.9
20°	997.6	992.7	993.4	991.3	993.4	992.7	997.6	1012.1	1020.4	1032.1	1052.9
22.5°	961.1	955.1	950.3	946.0	950.3	955.1	961.1	965.1	976.1	987.3	1004.2
25°	899.4	895.2	889.0	887.6	889.0	895.2	899.4	905.6	911.1	925.7	936.0
27.5°	845.2	844.4	841.9	838.7	841.9	844.4	845.2	850.7	857.9	867.2	880.3
30°	813.7	812.3	810.9	808.8	810.9	812.3	813.7	819.2	824.7	832.3	842.7
32.5°	785.5	784.6	783.2	783.4	783.2	784.6	785.5	788.2	791.5	801.4	809.5
35°	745.2	744.5	743.2	742.5	743.2	744.5	745.2	748.0	750.1	752.8	759.7
37.5°	707.6	709.4	708.6	708.4	708.6	709.4	707.6	708.3	706.1	711.1	715.8
40°	681.6	682.3	683.7	683.0	683.7	682.3	681.6	682.3	682.3	682.3	686.5
42.5°	660.1	660.2	662.1	659.8	662.1	660.2	660.1	657.4	654.1	654.7	656.0
45°	621.5	625.6	624.9	624.9	624.9	625.6	621.5	616.6	616.0	613.2	613.2
47.5°	579.3	582.9	583.9	583.7	583.9	582.9	579.3	577.5	574.3	571.6	571.3
50°	551.7	550.3	552.4	551.7	552.4	550.3	551.7	548.2	543.4	543.4	542.0
52.5°	517.9	518.2	518.1	517.4	518.1	518.2	517.9	516.1	514.1	511.8	511.0
55°	465.9	466.6	465.2	465.9	465.2	466.6	465.9	465.2	465.2	463.9	465.2
57.5°	409.5	406.2	407.6	405.9	407.6	406.2	409.5	412.6	413.7	414.0	416.0
60°	369.2	363.6	362.2	359.5	362.2	363.6	369.2	376.1	378.8	380.2	382.3
62.5°	323.8	319.9	315.2	317.4	315.2	319.9	323.8	331.3	337.4	342.1	346.9
65°	263.4	260.6	258.5	261.3	258.5	260.6	263.4	268.9	274.4	285.5	295.9
67.5°	218.0	216.5	216.5	215.1	216.5	216.5	218.0	220.8	224.3	230.3	240.0
70°	194.3	192.2	192.2	190.8	192.2	192.2	194.3	194.3	197.7	200.5	207.4
72.5°	169.9	167.8	168.4	167.6	168.4	167.8	169.9	170.5	173.9	175.0	178.1
75°	125.8	122.4	122.4	123.1	122.4	122.4	125.8	130.0	133.4	139.6	141.0
77.5°	93.9	93.2	94.2	92.9	94.2	93.2	93.9	93.9	94.6	97.5	99.8
80°	76.7	76.0	75.4	77.4	75.4	76.0	76.7	76.7	77.4	78.1	78.8
82.5°	59.6	59.5	59.3	61.9	59.3	59.5	59.6	60.7	60.8	60.4	61.1
85°	35.9	34.6	35.9	34.6	35.9	34.6	35.9	35.3	35.9	35.3	35.9
87.5°	18.4	18.0	17.5	18.2	17.5	18.0	18.4	17.2	17.1	17.9	17.1
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6
92.5°	43.5	43.8	44.1	44.3	44.1	43.8	43.5	43.3	42.7	41.9	41.1
95°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.5	77.9	77.2
97.5°	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.2	122.4	121.6
100°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.5	154.0	153.6
102.5°	189.3	189.5	189.7	189.8	189.7	189.5	189.3	189.1	188.7	188.1	187.5
105°	241.5	242.2	242.9	243.5	242.9	242.2	241.5	240.9	240.2	239.6	238.9
107.5°	296.0	295.9	295.9	295.8	295.9	295.9	296.0	296.0	295.7	295.1	294.5
110°	331.4	332.0	332.7	333.4	332.7	332.0	331.4	330.7	330.6	331.0	331.5



TEST NUMBER: P332974

CATALOG NUMBER: SA4XXRDIP-C1020D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	371.3	371.4	371.6	371.7	371.6	371.4	371.3	371.2	371.2	371.2	371.3
115°	431.9	431.6	431.4	431.2	431.4	431.6	431.9	432.1	432.3	432.5	432.7
117.5°	489.2	488.8	488.3	487.9	488.3	488.8	489.2	489.7	490.3	491.0	491.8
120°	529.7	530.1	530.6	531.0	530.6	530.1	529.7	529.2	529.6	530.7	531.8
122.5°	569.3	568.5	567.7	566.9	567.7	568.5	569.3	570.1	570.9	571.7	572.4
125°	630.2	629.7	629.3	628.8	629.3	629.7	630.2	630.6	631.0	631.5	631.9
127.5°	687.2	686.8	686.5	686.1	686.5	686.8	687.2	687.5	687.9	688.4	688.8
130°	726.3	725.4	724.5	723.6	724.5	725.4	726.3	727.2	727.9	728.3	728.8
132.5°	764.6	764.3	763.9	763.6	763.9	764.3	764.6	765.0	765.4	765.8	766.3
135°	820.5	819.8	819.1	818.5	819.1	819.8	820.5	821.1	821.7	822.1	822.6
137.5°	875.8	875.9	876.0	876.2	876.0	875.9	875.8	875.6	875.9	876.4	877.0
140°	912.0	911.7	911.5	911.3	911.5	911.7	912.0	912.2	912.4	912.6	912.9
142.5°	946.6	946.5	946.5	946.4	946.5	946.5	946.6	946.6	946.7	946.7	946.7
145°	996.1	995.5	994.8	994.1	994.8	995.5	996.1	996.8	997.2	997.5	997.7
147.5°	1043.1	1042.9	1042.7	1042.5	1042.7	1042.9	1043.1	1043.3	1043.5	1043.7	1043.9
150°	1072.7	1072.4	1072.2	1072.0	1072.2	1072.4	1072.7	1072.9	1073.0	1073.0	1073.0
152.5°	1100.9	1100.3	1099.7	1099.1	1099.7	1100.3	1100.9	1101.5	1101.5	1100.9	1100.4
155°	1139.5	1138.7	1137.8	1136.9	1137.8	1138.7	1139.5	1140.4	1140.4	1139.5	1138.7
157.5°	1172.9	1172.1	1171.4	1170.6	1171.4	1172.1	1172.9	1173.6	1173.7	1173.0	1172.3
160°	1193.1	1192.0	1190.9	1189.8	1190.9	1192.0	1193.1	1194.2	1194.4	1193.8	1193.1
162.5°	1213.1	1212.0	1210.9	1209.7	1210.9	1212.0	1213.1	1214.2	1214.1	1212.9	1211.7
165°	1238.4	1237.5	1236.6	1235.7	1236.6	1237.5	1238.4	1239.2	1239.0	1237.7	1236.4
167.5°	1258.4	1257.0	1255.6	1254.3	1255.6	1257.0	1258.4	1259.8	1259.8	1258.5	1257.1
170°	1269.3	1267.7	1266.2	1264.6	1266.2	1267.7	1269.3	1270.8	1271.0	1269.6	1268.3
172.5°	1278.1	1276.5	1275.0	1273.4	1275.0	1276.5	1278.1	1279.6	1279.7	1278.1	1276.6
175°	1287.3	1285.7	1284.2	1282.6	1284.2	1285.7	1287.3	1288.8	1288.8	1287.3	1285.7
177.5°	1291.7	1290.2	1288.8	1287.4	1288.8	1290.2	1291.7	1293.1	1293.2	1291.9	1290.7
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



TEST NUMBER: P332974

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1641.2	1645.0	1653.9	1663.8	1672.1	1679.3	1684.8	1692.6	1699.8	1709.7	1719.1
5°	1541.6	1551.3	1565.1	1581.7	1602.4	1616.3	1633.6	1648.8	1670.9	1693.0	1714.4
7.5°	1454.2	1464.9	1485.2	1508.1	1532.8	1555.4	1575.9	1602.7	1632.0	1664.2	1700.2
10°	1397.8	1409.6	1433.8	1460.0	1489.1	1511.2	1538.8	1570.6	1603.8	1643.2	1687.5
12.5°	1346.9	1358.1	1387.3	1414.1	1444.3	1468.6	1500.7	1533.0	1577.3	1620.0	1670.3
15°	1247.8	1277.5	1310.7	1342.5	1378.5	1408.2	1446.9	1480.1	1522.3	1582.4	1639.8
17.5°	1137.7	1169.4	1210.6	1259.7	1307.9	1344.7	1384.0	1425.2	1475.4	1536.8	1603.0
20°	1073.6	1099.2	1144.8	1199.4	1255.4	1306.6	1342.5	1388.1	1440.0	1506.4	1574.8
22.5°	1025.5	1047.2	1082.9	1137.5	1197.9	1257.3	1303.2	1348.3	1405.7	1472.1	1546.6
25°	953.3	976.8	1007.9	1045.3	1114.4	1177.3	1237.4	1289.3	1350.1	1416.5	1499.4
27.5°	893.3	913.8	942.2	981.1	1027.6	1097.0	1169.8	1229.0	1291.4	1362.6	1445.7
30°	857.9	874.5	898.0	937.4	981.7	1043.9	1117.8	1187.0	1249.9	1323.8	1410.3
32.5°	820.9	838.6	861.5	892.6	940.2	992.4	1066.4	1142.2	1209.0	1284.6	1369.3
35°	771.5	785.3	806.1	837.9	880.7	926.3	992.0	1070.1	1140.7	1221.5	1302.4
37.5°	721.6	737.9	754.2	782.6	817.7	866.8	920.5	1000.3	1078.4	1152.3	1231.2
40°	693.4	703.1	721.0	743.8	781.2	824.7	875.2	953.3	1031.4	1104.7	1184.2
42.5°	661.9	672.6	687.8	710.7	744.1	786.6	835.9	903.5	985.0	1056.0	1128.3
45°	618.0	624.2	639.5	658.8	686.5	729.3	775.0	835.1	911.8	979.6	1043.2
47.5°	573.8	579.2	588.7	606.4	637.4	671.8	714.5	768.5	835.8	903.5	957.3
50°	543.4	548.2	557.2	573.8	601.4	635.3	677.5	725.9	786.0	851.0	895.9
52.5°	512.9	515.6	524.0	542.8	566.0	599.4	637.1	681.6	737.9	791.8	837.3
55°	464.6	470.8	476.3	490.1	512.3	544.1	577.9	620.1	663.7	709.3	748.0
57.5°	414.1	420.9	428.9	441.1	458.6	488.2	518.6	552.8	590.0	627.8	660.3
60°	380.9	387.1	394.0	407.9	423.8	447.3	480.5	510.2	538.5	573.1	605.6
62.5°	348.3	354.5	362.5	373.6	388.9	411.3	439.0	464.8	494.3	524.4	548.6
65°	300.0	304.9	311.1	321.5	336.0	356.0	378.8	398.9	425.2	447.3	469.4
67.5°	247.1	256.3	264.5	272.9	285.2	303.9	320.4	339.6	357.4	373.9	394.0
70°	212.2	222.6	230.2	239.2	250.9	266.8	282.7	295.9	310.4	326.3	344.3
72.5°	182.9	191.1	197.0	206.6	217.2	232.0	246.8	257.7	269.5	280.4	297.8
75°	144.5	147.9	152.1	159.7	169.4	180.4	192.2	201.9	208.8	218.5	230.9
77.5°	103.8	110.5	113.2	118.6	125.5	132.5	140.2	148.4	155.0	158.4	168.0
80°	79.5	82.3	85.0	92.6	96.8	103.7	109.2	116.8	119.6	123.1	132.0
82.5°	61.8	63.5	65.1	67.2	69.7	76.6	82.1	87.0	89.7	91.0	97.8
85°	35.9	36.6	37.3	38.0	38.7	38.7	41.5	44.9	49.8	49.8	51.8
87.5°	16.8	17.1	16.8	15.8	16.6	16.2	16.4	15.9	17.1	18.2	19.4
90°	23.3	22.0	20.2	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0
92.5°	40.3	39.5	38.3	37.0	35.8	34.6	32.5	29.7	26.9	24.2	21.4
95°	76.5	75.9	74.3	72.8	71.2	69.6	67.9	65.9	63.9	61.9	59.9
97.5°	120.8	120.0	118.2	116.3	114.5	112.7	111.0	109.4	107.8	106.2	104.6
100°	153.2	152.7	150.7	148.7	146.7	144.7	143.3	142.4	141.5	140.6	139.7
102.5°	186.9	186.3	184.4	182.6	180.8	179.0	177.9	177.5	177.2	176.8	176.5
105°	238.2	237.6	236.7	235.8	234.9	234.0	233.5	233.2	233.0	232.8	232.6
107.5°	293.9	293.3	293.1	293.0	292.9	292.7	292.5	292.3	292.0	291.7	291.5
110°	331.9	332.4	332.6	332.8	333.0	333.3	333.2	332.7	332.3	331.8	331.4



TEST NUMBER: P332974

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	371.4	371.5	371.9	372.3	372.7	373.1	373.3	373.2	373.1	373.0	372.9
115°	433.0	433.2	433.6	434.1	434.5	435.0	435.2	435.2	435.2	435.2	435.2
117.5°	492.5	493.3	493.6	493.9	494.2	494.5	494.6	494.4	494.2	494.1	493.9
120°	532.9	534.0	534.7	535.3	536.0	536.7	536.6	535.7	534.8	533.9	533.0
122.5°	573.2	573.9	574.2	574.5	574.9	575.2	575.1	574.8	574.4	574.1	573.7
125°	632.4	632.8	633.0	633.3	633.5	633.7	633.8	633.8	633.8	633.8	633.8
127.5°	689.3	689.7	690.1	690.4	690.8	691.1	691.0	690.3	689.6	689.0	688.3
130°	729.2	729.6	729.6	729.6	729.6	729.6	729.3	728.6	728.0	727.3	726.6
132.5°	766.7	767.2	767.3	767.5	767.7	767.9	767.7	767.2	766.7	766.3	765.8
135°	823.0	823.5	823.5	823.5	823.5	823.5	822.8	821.5	820.1	818.8	817.5
137.5°	877.6	878.2	877.8	877.5	877.1	876.7	876.3	875.6	875.0	874.4	873.8
140°	913.1	913.3	913.3	913.3	913.3	913.3	913.1	912.6	912.2	911.7	911.3
142.5°	946.8	946.8	947.0	947.2	947.4	947.5	947.4	947.0	946.5	946.1	945.6
145°	997.9	998.1	997.9	997.7	997.5	997.2	996.7	995.8	994.9	994.0	993.1
147.5°	1044.1	1044.3	1044.4	1044.6	1044.8	1045.0	1044.5	1043.5	1042.4	1041.3	1040.3
150°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1072.6	1071.7	1070.8	1069.9	1069.0
152.5°	1099.9	1099.3	1099.2	1099.0	1098.8	1098.6	1098.3	1097.8	1097.2	1096.7	1096.2
155°	1137.8	1136.9	1137.1	1137.3	1137.5	1137.8	1137.9	1137.9	1137.9	1137.9	1137.9
157.5°	1171.7	1171.0	1171.1	1171.1	1171.1	1171.2	1171.4	1171.8	1172.2	1172.6	1173.0
160°	1192.4	1191.8	1192.0	1192.2	1192.4	1192.7	1192.9	1193.1	1193.3	1193.5	1193.8
162.5°	1210.5	1209.3	1209.6	1209.8	1210.0	1210.2	1210.6	1211.2	1211.8	1212.4	1212.9
165°	1235.0	1233.7	1234.1	1234.6	1235.0	1235.5	1236.0	1236.7	1237.4	1238.0	1238.7
167.5°	1255.8	1254.5	1254.4	1254.4	1254.3	1254.3	1254.7	1255.7	1256.6	1257.5	1258.5
170°	1267.0	1265.6	1265.4	1265.2	1265.0	1264.7	1265.2	1266.3	1267.4	1268.5	1269.6
172.5°	1275.1	1273.6	1273.6	1273.5	1273.5	1273.4	1273.9	1274.8	1275.8	1276.7	1277.6
175°	1284.2	1282.6	1282.8	1283.0	1283.3	1283.5	1284.2	1285.3	1286.4	1287.5	1288.6
177.5°	1289.4	1288.2	1288.2	1288.2	1288.2	1288.2	1288.6	1289.5	1290.4	1291.3	1292.2
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1726.3	1731.3	1736.8	1747.3	1756.2	1760.1	1767.8	1773.3	1771.7	1779.4	1792.7
5°	1733.1	1751.8	1773.2	1795.3	1820.2	1840.9	1857.5	1874.1	1887.3	1903.2	1926.7
7.5°	1732.0	1765.2	1801.3	1840.9	1881.7	1917.0	1949.6	1982.8	2012.2	2044.5	2086.6
10°	1727.6	1771.8	1816.7	1868.6	1920.4	1969.5	2013.8	2055.2	2094.7	2136.8	2190.1
12.5°	1722.6	1773.5	1827.8	1890.2	1954.7	2013.8	2065.8	2125.5	2174.8	2229.2	2290.7
15°	1700.6	1769.0	1843.0	1923.9	2001.3	2080.8	2152.0	2225.3	2293.7	2358.7	2436.2
17.5°	1675.4	1754.4	1841.6	1937.2	2030.2	2126.9	2211.3	2303.7	2373.7	2460.9	2532.8
20°	1655.0	1740.0	1833.3	1940.5	2046.3	2153.4	2246.7	2340.8	2419.6	2507.4	2598.6
22.5°	1630.1	1723.4	1824.5	1935.5	2046.3	2163.4	2266.6	2360.1	2457.7	2556.6	2650.6
25°	1590.0	1686.8	1793.9	1915.6	2042.8	2162.4	2273.0	2389.1	2494.2	2601.4	2685.7
27.5°	1540.8	1642.4	1755.4	1880.9	2011.4	2133.9	2264.2	2387.9	2493.7	2596.8	2670.4
30°	1501.5	1608.7	1717.2	1844.4	1979.9	2111.2	2250.9	2374.6	2485.9	2578.6	2620.0
32.5°	1461.1	1562.8	1674.6	1803.5	1942.3	2083.6	2222.1	2348.6	2451.6	2507.2	2508.3
35°	1390.9	1486.3	1602.4	1729.0	1871.4	2024.8	2165.2	2289.6	2352.5	2357.3	2289.6
37.5°	1314.3	1401.8	1511.5	1638.1	1794.1	1946.7	2090.1	2173.0	2194.1	2123.7	1998.4
40°	1259.6	1340.4	1446.2	1576.2	1731.0	1888.6	2019.3	2080.1	2058.0	1943.9	1804.3
42.5°	1202.0	1277.4	1379.3	1507.6	1663.0	1822.3	1933.6	1966.2	1907.6	1775.8	1612.4
45°	1108.2	1177.3	1278.2	1407.5	1556.8	1706.1	1790.5	1773.9	1676.4	1520.2	1337.0
47.5°	1010.4	1077.2	1168.0	1287.6	1440.5	1569.4	1626.5	1576.5	1437.8	1265.9	1116.9
50°	945.7	1014.1	1097.8	1211.9	1351.5	1475.9	1512.6	1436.5	1282.4	1117.1	980.3
52.5°	882.1	940.6	1022.6	1132.8	1266.3	1371.4	1390.9	1303.2	1144.1	996.0	874.6
55°	785.3	838.6	907.7	1011.4	1126.8	1216.0	1205.6	1093.0	948.5	822.0	726.6
57.5°	691.7	731.8	795.7	892.9	994.2	1054.1	1016.2	920.1	785.5	681.9	601.4
60°	629.8	667.1	726.6	811.6	900.8	934.6	902.8	798.5	692.0	597.3	529.5
62.5°	571.2	604.1	655.2	734.2	806.2	826.2	792.2	701.1	605.2	524.3	468.2
65°	486.0	516.4	560.0	616.0	665.7	675.4	653.3	560.0	487.4	419.6	380.9
67.5°	408.7	428.6	462.6	511.0	537.4	543.1	500.4	441.7	377.7	336.1	306.9
70°	356.7	370.5	402.3	428.6	450.0	450.7	411.3	364.3	315.2	281.4	259.9
72.5°	306.4	319.7	343.7	361.7	378.1	372.8	336.7	299.6	259.9	234.4	218.5
75°	236.4	248.2	260.6	268.9	268.9	262.0	235.7	208.1	185.3	170.1	165.2
77.5°	171.9	181.5	185.7	184.4	182.0	171.2	154.6	136.5	128.3	121.1	117.5
80°	134.8	139.0	140.3	136.9	132.7	120.3	109.2	101.6	94.0	91.3	89.9
82.5°	100.0	103.6	100.0	100.9	91.8	81.6	75.5	72.9	69.7	68.6	67.2
85°	53.2	52.5	51.2	47.7	41.5	40.1	39.4	38.7	37.3	38.0	36.6
87.5°	19.3	18.2	16.4	16.4	16.8	16.0	17.0	17.3	17.7	17.4	18.8
90°	5.4	7.9	10.3	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6
92.5°	24.2	26.9	29.7	32.5	34.6	35.8	37.0	38.3	39.5	40.3	41.1
95°	61.9	63.9	65.9	67.9	69.6	71.2	72.8	74.3	75.9	76.5	77.2
97.5°	106.2	107.8	109.4	111.0	112.7	114.5	116.3	118.2	120.0	120.8	121.6
100°	140.6	141.5	142.4	143.3	144.7	146.7	148.7	150.7	152.7	153.2	153.6
102.5°	176.8	177.2	177.5	177.9	179.0	180.8	182.6	184.4	186.3	186.9	187.5
105°	232.8	233.0	233.2	233.5	234.0	234.9	235.8	236.7	237.6	238.2	238.9
107.5°	291.7	292.0	292.3	292.5	292.7	292.9	293.0	293.1	293.3	293.9	294.5
110°	331.8	332.3	332.7	333.2	333.3	333.0	332.8	332.6	332.4	331.9	331.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.0	373.1	373.2	373.3	373.1	372.7	372.3	371.9	371.5	371.4	371.3
115°	435.2	435.2	435.2	435.2	435.0	434.5	434.1	433.6	433.2	433.0	432.7
117.5°	494.1	494.2	494.4	494.6	494.5	494.2	493.9	493.6	493.3	492.5	491.8
120°	533.9	534.8	535.7	536.6	536.7	536.0	535.3	534.7	534.0	532.9	531.8
122.5°	574.1	574.4	574.8	575.1	575.2	574.9	574.5	574.2	573.9	573.2	572.4
125°	633.8	633.8	633.8	633.8	633.7	633.5	633.3	633.0	632.8	632.4	631.9
127.5°	689.0	689.6	690.3	691.0	691.1	690.8	690.4	690.1	689.7	689.3	688.8
130°	727.3	728.0	728.6	729.3	729.6	729.6	729.6	729.6	729.6	729.2	728.8
132.5°	766.3	766.7	767.2	767.7	767.9	767.7	767.5	767.3	767.2	766.7	766.3
135°	818.8	820.1	821.5	822.8	823.5	823.5	823.5	823.5	823.5	823.0	822.6
137.5°	874.4	875.0	875.6	876.3	876.7	877.1	877.5	877.8	878.2	877.6	877.0
140°	911.7	912.2	912.6	913.1	913.3	913.3	913.3	913.3	913.3	913.1	912.9
142.5°	946.1	946.5	947.0	947.4	947.5	947.4	947.2	947.0	946.8	946.8	946.7
145°	994.0	994.9	995.8	996.7	997.2	997.5	997.7	997.9	998.1	997.9	997.7
147.5°	1041.3	1042.4	1043.5	1044.5	1045.0	1044.8	1044.6	1044.4	1044.3	1044.1	1043.9
150°	1069.9	1070.8	1071.7	1072.6	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
152.5°	1096.7	1097.2	1097.8	1098.3	1098.6	1098.8	1099.0	1099.2	1099.3	1099.9	1100.4
155°	1137.9	1137.9	1137.9	1137.9	1137.8	1137.5	1137.3	1137.1	1136.9	1137.8	1138.7
157.5°	1172.6	1172.2	1171.8	1171.4	1171.2	1171.1	1171.1	1171.1	1171.0	1171.7	1172.3
160°	1193.5	1193.3	1193.1	1192.9	1192.7	1192.4	1192.2	1192.0	1191.8	1192.4	1193.1
162.5°	1212.4	1211.8	1211.2	1210.6	1210.2	1210.0	1209.8	1209.6	1209.3	1210.5	1211.7
165°	1238.0	1237.4	1236.7	1236.0	1235.5	1235.0	1234.6	1234.1	1233.7	1235.0	1236.4
167.5°	1257.5	1256.6	1255.7	1254.7	1254.3	1254.3	1254.4	1254.4	1254.5	1255.8	1257.1
170°	1268.5	1267.4	1266.3	1265.2	1264.7	1265.0	1265.2	1265.4	1265.6	1267.0	1268.3
172.5°	1276.7	1275.8	1274.8	1273.9	1273.4	1273.5	1273.5	1273.6	1273.6	1275.1	1276.6
175°	1287.5	1286.4	1285.3	1284.2	1283.5	1283.3	1283.0	1282.8	1282.6	1284.2	1285.7
177.5°	1291.3	1290.4	1289.5	1288.6	1288.2	1288.2	1288.2	1288.2	1288.2	1289.4	1290.7
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1799.9	1802.1	1803.8	1809.3	1809.8	1814.8	1809.8
5°	1948.8	1958.5	1973.7	1988.9	1990.3	1999.9	1982.7
7.5°	2115.8	2138.2	2152.2	2176.8	2186.5	2192.5	2182.6
10°	2230.8	2251.6	2288.2	2306.2	2324.2	2326.9	2318.6
12.5°	2342.0	2374.9	2403.8	2437.8	2437.0	2461.3	2452.5
15°	2490.1	2524.0	2564.0	2602.1	2615.9	2615.9	2627.0
17.5°	2595.7	2657.8	2699.3	2729.1	2761.8	2767.4	2763.6
20°	2667.1	2734.1	2778.4	2817.1	2839.2	2845.4	2845.4
22.5°	2720.1	2777.2	2820.4	2855.2	2873.5	2880.8	2878.6
25°	2756.9	2806.0	2832.3	2842.6	2847.5	2846.1	2833.0
27.5°	2706.6	2704.4	2687.8	2656.0	2632.1	2617.6	2601.0
30°	2610.4	2574.4	2532.9	2487.3	2428.6	2383.6	2369.8
32.5°	2467.1	2386.4	2316.1	2240.1	2176.9	2132.0	2113.2
35°	2190.1	2062.2	1957.8	1866.5	1800.2	1758.7	1744.9
37.5°	1861.3	1737.5	1608.3	1519.8	1464.7	1422.8	1407.2
40°	1652.2	1517.4	1404.7	1321.8	1265.1	1224.3	1223.6
42.5°	1461.4	1332.7	1226.7	1166.9	1105.8	1078.8	1078.7
45°	1196.6	1093.6	1003.8	956.8	920.1	898.0	891.8
47.5°	990.8	905.6	845.7	808.3	778.4	764.3	755.2
50°	875.2	800.5	752.8	720.3	703.7	685.8	684.4
52.5°	779.0	718.7	681.5	655.1	634.1	623.3	623.6
55°	654.7	607.0	580.7	560.6	544.1	535.8	532.3
57.5°	551.5	515.7	496.6	478.2	471.2	464.7	462.9
60°	487.4	463.2	445.2	430.7	420.3	418.2	417.5
62.5°	434.3	409.0	396.5	385.3	377.7	374.5	373.3
65°	358.1	339.4	328.4	319.4	316.6	311.8	311.1
67.5°	288.7	277.5	270.2	263.9	260.2	259.9	259.9
70°	246.1	239.9	233.7	230.2	228.1	226.7	226.7
72.5°	209.6	205.0	199.9	198.1	197.7	196.3	195.8
75°	159.7	154.9	155.5	152.1	149.3	145.9	143.8
77.5°	113.2	109.8	109.1	108.7	106.3	105.9	107.0
80°	87.8	84.3	83.6	84.3	83.6	81.6	81.6
82.5°	66.8	63.9	63.2	62.8	62.1	62.8	61.7
85°	35.9	34.6	34.6	34.6	35.9	35.3	34.6
87.5°	17.9	17.6	18.4	17.9	18.0	17.5	18.2
90°	26.0	27.3	28.2	28.6	29.1	29.5	29.9
92.5°	41.9	42.7	43.3	43.5	43.8	44.1	44.3
95°	77.9	78.5	78.9	78.9	78.9	78.9	78.9
97.5°	122.4	123.2	123.6	123.6	123.6	123.6	123.6
100°	154.0	154.5	154.7	154.7	154.7	154.7	154.7
102.5°	188.1	188.7	189.1	189.3	189.5	189.7	189.8
105°	239.6	240.2	240.9	241.5	242.2	242.9	243.5
107.5°	295.1	295.7	296.0	296.0	295.9	295.9	295.8
110°	331.0	330.6	330.7	331.4	332.0	332.7	333.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	371.2	371.2	371.2	371.3	371.4	371.6	371.7
115°	432.5	432.3	432.1	431.9	431.6	431.4	431.2
117.5°	491.0	490.3	489.7	489.2	488.8	488.3	487.9
120°	530.7	529.6	529.2	529.7	530.1	530.6	531.0
122.5°	571.7	570.9	570.1	569.3	568.5	567.7	566.9
125°	631.5	631.0	630.6	630.2	629.7	629.3	628.8
127.5°	688.4	687.9	687.5	687.2	686.8	686.5	686.1
130°	728.3	727.9	727.2	726.3	725.4	724.5	723.6
132.5°	765.8	765.4	765.0	764.6	764.3	763.9	763.6
135°	822.1	821.7	821.1	820.5	819.8	819.1	818.5
137.5°	876.4	875.9	875.6	875.8	875.9	876.0	876.2
140°	912.6	912.4	912.2	912.0	911.7	911.5	911.3
142.5°	946.7	946.7	946.6	946.6	946.5	946.5	946.4
145°	997.5	997.2	996.8	996.1	995.5	994.8	994.1
147.5°	1043.7	1043.5	1043.3	1043.1	1042.9	1042.7	1042.5
150°	1073.0	1073.0	1072.9	1072.7	1072.4	1072.2	1072.0
152.5°	1100.9	1101.5	1101.5	1100.9	1100.3	1099.7	1099.1
155°	1139.5	1140.4	1140.4	1139.5	1138.7	1137.8	1136.9
157.5°	1173.0	1173.7	1173.6	1172.9	1172.1	1171.4	1170.6
160°	1193.8	1194.4	1194.2	1193.1	1192.0	1190.9	1189.8
162.5°	1212.9	1214.1	1214.2	1213.1	1212.0	1210.9	1209.7
165°	1237.7	1239.0	1239.2	1238.4	1237.5	1236.6	1235.7
167.5°	1258.5	1259.8	1259.8	1258.4	1257.0	1255.6	1254.3
170°	1269.6	1271.0	1270.8	1269.3	1267.7	1266.2	1264.6
172.5°	1278.1	1279.7	1279.6	1278.1	1276.5	1275.0	1273.4
175°	1287.3	1288.8	1288.8	1287.3	1285.7	1284.2	1282.6
177.5°	1291.9	1293.2	1293.1	1291.7	1290.2	1288.8	1287.4
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6

(END OF REPORT)