

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332973

Luminaire Tested: **S124RDIP-S1020D1035U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332973
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S1020D1035U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8469.6 lumens
Efficiency: N/A
Efficacy: 140.0 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

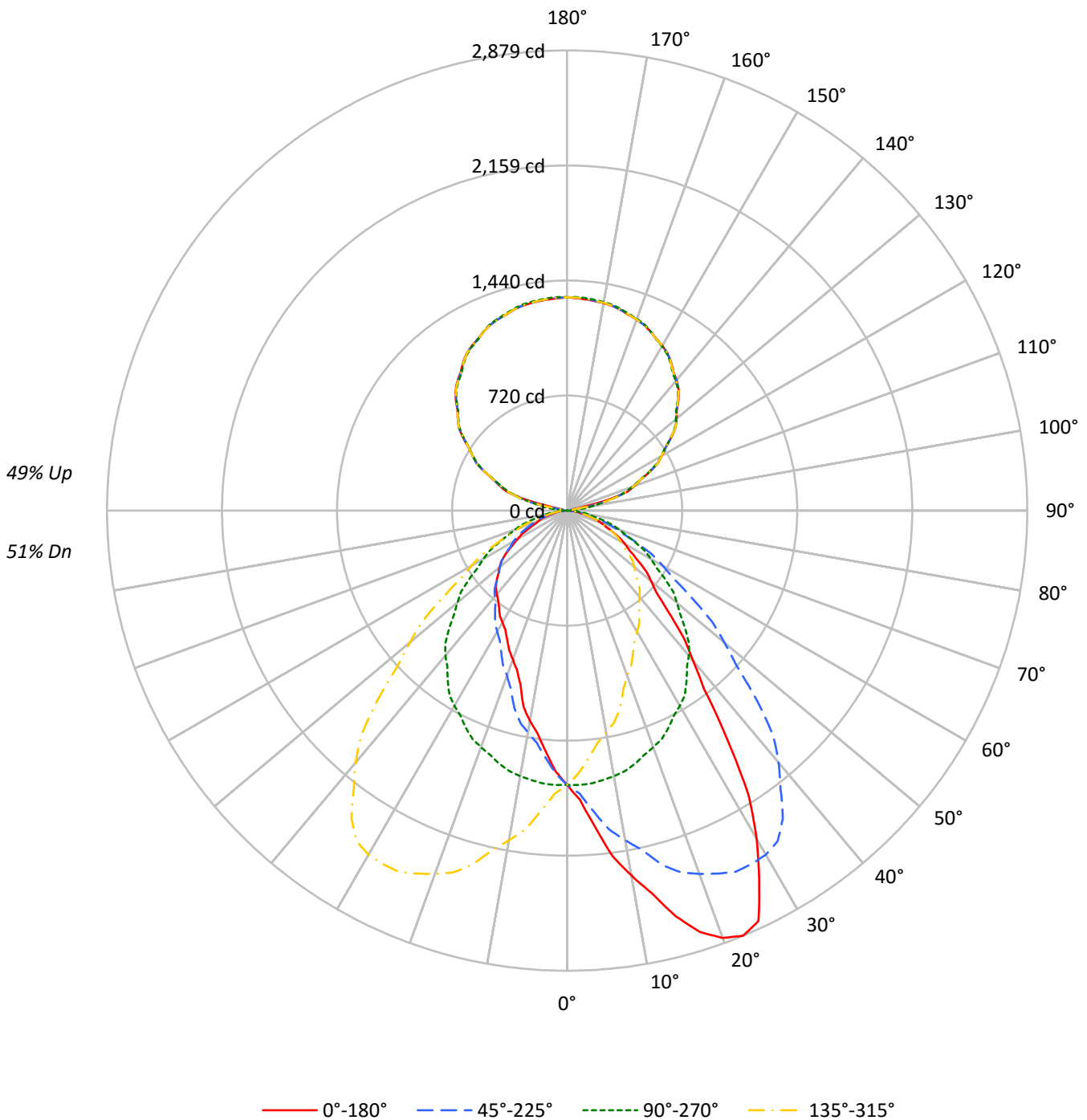
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	39	36	32
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	52	44	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	34	29	35	30	26	30	26	23	26	22	20	18
9	51	39	32	27	48	37	30	26	32	27	23	28	24	21	24	20	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	2.0
10°-20°	501.5	5.9
20°-30°	784.4	9.3
30°-40°	872.0	10.3
40°-50°	773.6	9.1
50°-60°	602.8	7.1
60°-70°	394.7	4.7
70°-80°	194.1	2.3
80°-90°	51.8	0.6
90°-100°	45.7	0.5
100°-110°	291.1	3.4
110°-120°	556.8	6.6
120°-130°	706.8	8.3
130°-140°	756.2	8.9
140°-150°	707.2	8.3
150°-160°	570.3	6.7
160°-170°	367.8	4.3
170°-180°	126.8	1.5
0°-30°	1452.1	17.1
0°-40°	2324.1	27.4
0°-60°	3700.5	43.7
0°-90°	4341.0	51.3
90°-120°	893.5	10.5
90°-150°	3063.7	36.2
90°-180°	4129.0	48.8
0°-180°	8469.6	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	14
95°	29	55	29	55	29	23
105°	284	300	284	300	284	248
115°	565	561	565	561	565	559
125°	795	789	795	789	795	708
135°	985	978	985	978	985	758
145°	1134	1128	1134	1128	1134	709
155°	1236	1237	1236	1237	1236	570
165°	1299	1305	1299	1305	1299	367
175°	1327	1335	1327	1335	1327	126
180°	1335	1335	1335	1335	1335	



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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°	27.6	27.5	27.4	27.3	27.2	26.5	25.2	23.8	22.5	21.2	19.4
95°	28.9	28.7	28.5	28.3	28.1	27.3	26.0	24.6	23.3	22.0	21.7
97.5°	28.0	27.7	27.5	27.3	27.1	26.9	26.8	26.6	26.5	26.4	51.1
100°	28.0	27.7	27.5	27.3	27.1	28.8	32.6	36.4	40.2	43.9	74.5
102.5°	28.8	28.7	28.7	28.6	28.6	48.9	89.6	130.3	170.9	211.6	215.6
105°	284.5	292.5	300.5	308.5	316.5	319.4	317.4	315.5	313.5	311.5	310.4
107.5°	396.5	395.7	394.8	394.0	393.1	392.2	391.3	390.3	389.3	388.3	386.8
110°	445.2	444.6	443.9	443.2	442.6	442.0	441.6	441.1	440.7	440.2	438.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	493.9	493.1	492.3	491.4	490.6	490.2	490.3	490.4	490.5	490.5	489.9
115°	565.0	565.0	565.0	565.0	565.0	564.8	564.4	563.9	563.5	563.0	563.2
117.5°	637.3	637.4	637.5	637.6	637.7	637.7	637.8	637.9	638.0	638.1	637.6
120°	682.8	683.3	683.7	684.1	684.6	684.6	684.1	683.7	683.3	682.8	683.0
122.5°	727.5	728.0	728.4	728.9	729.3	729.4	729.1	728.9	728.6	728.3	728.0
125°	794.6	794.4	794.2	794.0	793.7	793.3	792.6	792.0	791.3	790.6	791.1
127.5°	853.5	853.7	853.9	854.1	854.2	854.4	854.5	854.7	854.8	854.9	853.9
130°	893.5	893.5	893.5	893.5	893.5	893.3	893.1	892.9	892.7	892.5	891.8
132.5°	930.2	930.4	930.5	930.7	930.9	930.9	930.7	930.4	930.2	930.0	929.1
135°	985.3	984.8	984.4	984.0	983.5	983.1	982.6	982.2	981.7	981.3	980.4
137.5°	1032.4	1032.5	1032.7	1032.8	1032.9	1032.8	1032.3	1031.8	1031.3	1030.8	1029.8
140°	1065.2	1064.9	1064.7	1064.5	1064.3	1063.8	1063.2	1062.5	1061.8	1061.2	1060.7
142.5°	1092.3	1092.3	1092.2	1092.2	1092.1	1091.9	1091.4	1090.9	1090.4	1089.9	1089.6
145°	1134.0	1133.6	1133.1	1132.7	1132.3	1131.9	1131.7	1131.5	1131.3	1131.0	1131.0
147.5°	1168.6	1168.4	1168.1	1167.9	1167.7	1167.5	1167.3	1167.1	1167.0	1166.8	1167.0
150°	1190.9	1190.7	1190.5	1190.3	1190.0	1189.9	1189.9	1189.9	1189.9	1189.9	1190.2
152.5°	1210.1	1210.2	1210.4	1210.5	1210.6	1210.5	1210.2	1209.8	1209.5	1209.1	1209.5
155°	1235.9	1236.5	1237.2	1237.9	1238.5	1238.4	1237.5	1236.6	1235.7	1234.9	1235.5
157.5°	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0	1260.9	1259.7	1258.6	1257.4	1258.2
160°	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1	1275.8	1274.5	1273.1	1271.8	1272.0
162.5°	1283.0	1284.5	1286.0	1287.5	1289.0	1289.1	1287.8	1286.4	1285.1	1283.8	1284.0
165°	1298.7	1300.7	1302.7	1304.7	1306.7	1306.8	1305.1	1303.3	1301.5	1299.7	1299.7
167.5°	1310.5	1312.7	1315.0	1317.2	1319.4	1319.5	1317.6	1315.6	1313.7	1311.7	1311.9
170°	1317.7	1319.9	1322.2	1324.4	1326.6	1326.8	1325.0	1323.3	1321.5	1319.7	1319.5
172.5°	1321.7	1324.1	1326.5	1328.9	1331.3	1331.6	1329.8	1328.1	1326.3	1324.5	1324.3
175°	1326.7	1329.4	1332.0	1334.7	1337.3	1337.7	1335.7	1333.7	1331.7	1329.7	1329.5
177.5°	1329.9	1332.0	1334.2	1336.3	1338.4	1338.8	1337.3	1335.9	1334.5	1333.1	1332.7
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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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°	17.6	15.8	14.1	13.1	13.0	12.8	12.7	12.6	12.7	12.8	13.0
95°	21.5	21.3	21.1	24.7	32.3	39.8	47.4	54.9	47.4	39.8	32.3
97.5°	75.9	100.6	125.4	135.4	130.7	126.0	121.3	116.6	121.3	126.0	130.7
100°	105.2	135.8	166.4	179.7	175.7	171.7	167.7	163.7	167.7	171.7	175.7
102.5°	219.6	223.6	227.6	228.1	225.2	222.3	219.4	216.4	219.4	222.3	225.2
105°	309.2	308.1	307.0	305.8	304.5	303.1	301.8	300.5	301.8	303.1	304.5
107.5°	385.3	383.8	382.3	381.2	380.5	379.9	379.2	378.5	379.2	379.9	380.5
110°	437.6	436.2	434.9	433.9	433.2	432.6	431.9	431.3	431.9	432.6	433.2



TEST NUMBER: P332973

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	489.3	488.7	488.1	487.2	486.0	484.8	483.6	482.4	483.6	484.8	486.0
115°	563.5	563.7	563.9	563.7	563.0	562.4	561.7	561.0	561.7	562.4	563.0
117.5°	637.1	636.6	636.1	635.5	634.6	633.7	632.8	631.9	632.8	633.7	634.6
120°	683.3	683.5	683.7	683.4	682.5	681.6	680.7	679.8	680.7	681.6	682.5
122.5°	727.7	727.4	727.1	726.7	726.1	725.6	725.1	724.5	725.1	725.6	726.1
125°	791.5	792.0	792.4	792.2	791.3	790.4	789.5	788.6	789.5	790.4	791.3
127.5°	852.9	851.9	850.8	850.2	850.0	849.8	849.5	849.3	849.5	849.8	850.0
130°	891.1	890.5	889.8	889.3	889.1	888.9	888.7	888.5	888.7	888.9	889.1
132.5°	928.3	927.5	926.6	926.0	925.6	925.2	924.8	924.4	924.8	925.2	925.6
135°	979.5	978.6	977.7	977.4	977.6	977.9	978.1	978.3	978.1	977.9	977.6
137.5°	1028.9	1027.9	1026.9	1026.4	1026.3	1026.2	1026.1	1026.0	1026.1	1026.2	1026.3
140°	1060.3	1059.8	1059.4	1058.9	1058.5	1058.1	1057.6	1057.2	1057.6	1058.1	1058.5
142.5°	1089.4	1089.1	1088.8	1088.3	1087.5	1086.7	1085.9	1085.1	1085.9	1086.7	1087.5
145°	1131.0	1131.0	1131.0	1130.7	1130.0	1129.4	1128.7	1128.0	1128.7	1129.4	1130.0
147.5°	1167.2	1167.4	1167.7	1167.2	1165.9	1164.7	1163.4	1162.2	1163.4	1164.7	1165.9
150°	1190.4	1190.6	1190.8	1190.5	1189.6	1188.7	1187.8	1186.9	1187.8	1188.7	1189.6
152.5°	1209.9	1210.3	1210.7	1210.5	1209.8	1209.1	1208.4	1207.7	1208.4	1209.1	1209.8
155°	1236.2	1236.9	1237.5	1237.7	1237.5	1237.3	1237.1	1236.9	1237.1	1237.3	1237.5
157.5°	1258.9	1259.7	1260.4	1260.9	1261.0	1261.1	1261.3	1261.4	1261.3	1261.1	1261.0
160°	1272.2	1272.5	1272.7	1273.1	1273.8	1274.5	1275.1	1275.8	1275.1	1274.5	1273.8
162.5°	1284.2	1284.4	1284.7	1285.2	1286.0	1286.9	1287.7	1288.6	1287.7	1286.9	1286.0
165°	1299.7	1299.7	1299.7	1300.3	1301.4	1302.5	1303.6	1304.7	1303.6	1302.5	1301.4
167.5°	1312.0	1312.1	1312.3	1312.9	1314.1	1315.2	1316.4	1317.5	1316.4	1315.2	1314.1
170°	1319.3	1319.0	1318.8	1319.4	1320.7	1322.0	1323.4	1324.7	1323.4	1322.0	1320.7
172.5°	1324.1	1323.8	1323.6	1324.2	1325.5	1326.8	1328.2	1329.5	1328.2	1326.8	1325.5
175°	1329.3	1329.0	1328.8	1329.4	1330.7	1332.0	1333.4	1334.7	1333.4	1332.0	1330.7
177.5°	1332.4	1332.0	1331.7	1332.1	1333.4	1334.6	1335.8	1337.1	1335.8	1334.6	1333.4
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332973

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-A

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°	13.1	14.1	15.8	17.6	19.4	21.2	22.5	23.8	25.2	26.5	27.2
95°	24.7	21.1	21.3	21.5	21.7	22.0	23.3	24.6	26.0	27.3	28.1
97.5°	135.4	125.4	100.6	75.9	51.1	26.4	26.5	26.6	26.8	26.9	27.1
100°	179.7	166.4	135.8	105.2	74.5	43.9	40.2	36.4	32.6	28.8	27.1
102.5°	228.1	227.6	223.6	219.6	215.6	211.6	170.9	130.3	89.6	48.9	28.6
105°	305.8	307.0	308.1	309.2	310.4	311.5	313.5	315.5	317.4	319.4	316.5
107.5°	381.2	382.3	383.8	385.3	386.8	388.3	389.3	390.3	391.3	392.2	393.1
110°	433.9	434.9	436.2	437.6	438.9	440.2	440.7	441.1	441.6	442.0	442.6



TEST NUMBER: P332973

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	487.2	488.1	488.7	489.3	489.9	490.5	490.5	490.4	490.3	490.2	490.6
115°	563.7	563.9	563.7	563.5	563.2	563.0	563.5	563.9	564.4	564.8	565.0
117.5°	635.5	636.1	636.6	637.1	637.6	638.1	638.0	637.9	637.8	637.7	637.7
120°	683.4	683.7	683.5	683.3	683.0	682.8	683.3	683.7	684.1	684.6	684.6
122.5°	726.7	727.1	727.4	727.7	728.0	728.3	728.6	728.9	729.1	729.4	729.3
125°	792.2	792.4	792.0	791.5	791.1	790.6	791.3	792.0	792.6	793.3	793.7
127.5°	850.2	850.8	851.9	852.9	853.9	854.9	854.8	854.7	854.5	854.4	854.2
130°	889.3	889.8	890.5	891.1	891.8	892.5	892.7	892.9	893.1	893.3	893.5
132.5°	926.0	926.6	927.5	928.3	929.1	930.0	930.2	930.4	930.7	930.9	930.9
135°	977.4	977.7	978.6	979.5	980.4	981.3	981.7	982.2	982.6	983.1	983.5
137.5°	1026.4	1026.9	1027.9	1028.9	1029.8	1030.8	1031.3	1031.8	1032.3	1032.8	1032.9
140°	1058.9	1059.4	1059.8	1060.3	1060.7	1061.2	1061.8	1062.5	1063.2	1063.8	1064.3
142.5°	1088.3	1088.8	1089.1	1089.4	1089.6	1089.9	1090.4	1090.9	1091.4	1091.9	1092.1
145°	1130.7	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.5	1131.7	1131.9	1132.3
147.5°	1167.2	1167.7	1167.4	1167.2	1167.0	1166.8	1167.0	1167.1	1167.3	1167.5	1167.7
150°	1190.5	1190.8	1190.6	1190.4	1190.2	1189.9	1189.9	1189.9	1189.9	1189.9	1190.0
152.5°	1210.5	1210.7	1210.3	1209.9	1209.5	1209.1	1209.5	1209.8	1210.2	1210.5	1210.6
155°	1237.7	1237.5	1236.9	1236.2	1235.5	1234.9	1235.7	1236.6	1237.5	1238.4	1238.5
157.5°	1260.9	1260.4	1259.7	1258.9	1258.2	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0
160°	1273.1	1272.7	1272.5	1272.2	1272.0	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1
162.5°	1285.2	1284.7	1284.4	1284.2	1284.0	1283.8	1285.1	1286.4	1287.8	1289.1	1289.0
165°	1300.3	1299.7	1299.7	1299.7	1299.7	1299.7	1301.5	1303.3	1305.1	1306.8	1306.7
167.5°	1312.9	1312.3	1312.1	1312.0	1311.9	1311.7	1313.7	1315.6	1317.6	1319.5	1319.4
170°	1319.4	1318.8	1319.0	1319.3	1319.5	1319.7	1321.5	1323.3	1325.0	1326.8	1326.6
172.5°	1324.2	1323.6	1323.8	1324.1	1324.3	1324.5	1326.3	1328.1	1329.8	1331.6	1331.3
175°	1329.4	1328.8	1329.0	1329.3	1329.5	1329.7	1331.7	1333.7	1335.7	1337.7	1337.3
177.5°	1332.1	1331.7	1332.0	1332.4	1332.7	1333.1	1334.5	1335.9	1337.3	1338.8	1338.4
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332973

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-A

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°	27.3	27.4	27.5	27.6	27.5	27.4	27.3	27.2	26.5	25.2	23.8
95°	28.3	28.5	28.7	28.9	28.7	28.5	28.3	28.1	27.3	26.0	24.6
97.5°	27.3	27.5	27.7	28.0	27.7	27.5	27.3	27.1	26.9	26.8	26.6
100°	27.3	27.5	27.7	28.0	27.7	27.5	27.3	27.1	28.8	32.6	36.4
102.5°	28.6	28.7	28.7	28.8	28.7	28.7	28.6	28.6	48.9	89.6	130.3
105°	308.5	300.5	292.5	284.5	292.5	300.5	308.5	316.5	319.4	317.4	315.5
107.5°	394.0	394.8	395.7	396.5	395.7	394.8	394.0	393.1	392.2	391.3	390.3
110°	443.2	443.9	444.6	445.2	444.6	443.9	443.2	442.6	442.0	441.6	441.1



TEST NUMBER: P332973

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	491.4	492.3	493.1	493.9	493.1	492.3	491.4	490.6	490.2	490.3	490.4
115°	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	564.8	564.4	563.9
117.5°	637.6	637.5	637.4	637.3	637.4	637.5	637.6	637.7	637.7	637.8	637.9
120°	684.1	683.7	683.3	682.8	683.3	683.7	684.1	684.6	684.6	684.1	683.7
122.5°	728.9	728.4	728.0	727.5	728.0	728.4	728.9	729.3	729.4	729.1	728.9
125°	794.0	794.2	794.4	794.6	794.4	794.2	794.0	793.7	793.3	792.6	792.0
127.5°	854.1	853.9	853.7	853.5	853.7	853.9	854.1	854.2	854.4	854.5	854.7
130°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.3	893.1	892.9
132.5°	930.7	930.5	930.4	930.2	930.4	930.5	930.7	930.9	930.9	930.7	930.4
135°	984.0	984.4	984.8	985.3	984.8	984.4	984.0	983.5	983.1	982.6	982.2
137.5°	1032.8	1032.7	1032.5	1032.4	1032.5	1032.7	1032.8	1032.9	1032.8	1032.3	1031.8
140°	1064.5	1064.7	1064.9	1065.2	1064.9	1064.7	1064.5	1064.3	1063.8	1063.2	1062.5
142.5°	1092.2	1092.2	1092.3	1092.3	1092.3	1092.2	1092.2	1092.1	1091.9	1091.4	1090.9
145°	1132.7	1133.1	1133.6	1134.0	1133.6	1133.1	1132.7	1132.3	1131.9	1131.7	1131.5
147.5°	1167.9	1168.1	1168.4	1168.6	1168.4	1168.1	1167.9	1167.7	1167.5	1167.3	1167.1
150°	1190.3	1190.5	1190.7	1190.9	1190.7	1190.5	1190.3	1190.0	1189.9	1189.9	1189.9
152.5°	1210.5	1210.4	1210.2	1210.1	1210.2	1210.4	1210.5	1210.6	1210.5	1210.2	1209.8
155°	1237.9	1237.2	1236.5	1235.9	1236.5	1237.2	1237.9	1238.5	1238.4	1237.5	1236.6
157.5°	1260.9	1259.7	1258.6	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0	1260.9	1259.7
160°	1275.8	1274.5	1273.1	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1	1275.8	1274.5
162.5°	1287.5	1286.0	1284.5	1283.0	1284.5	1286.0	1287.5	1289.0	1289.1	1287.8	1286.4
165°	1304.7	1302.7	1300.7	1298.7	1300.7	1302.7	1304.7	1306.7	1306.8	1305.1	1303.3
167.5°	1317.2	1315.0	1312.7	1310.5	1312.7	1315.0	1317.2	1319.4	1319.5	1317.6	1315.6
170°	1324.4	1322.2	1319.9	1317.7	1319.9	1322.2	1324.4	1326.6	1326.8	1325.0	1323.3
172.5°	1328.9	1326.5	1324.1	1321.7	1324.1	1326.5	1328.9	1331.3	1331.6	1329.8	1328.1
175°	1334.7	1332.0	1329.4	1326.7	1329.4	1332.0	1334.7	1337.3	1337.7	1335.7	1333.7
177.5°	1336.3	1334.2	1332.0	1329.9	1332.0	1334.2	1336.3	1338.4	1338.8	1337.3	1335.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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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°	22.5	21.2	19.4	17.6	15.8	14.1	13.1	13.0	12.8	12.7	12.6
95°	23.3	22.0	21.7	21.5	21.3	21.1	24.7	32.3	39.8	47.4	54.9
97.5°	26.5	26.4	51.1	75.9	100.6	125.4	135.4	130.7	126.0	121.3	116.6
100°	40.2	43.9	74.5	105.2	135.8	166.4	179.7	175.7	171.7	167.7	163.7
102.5°	170.9	211.6	215.6	219.6	223.6	227.6	228.1	225.2	222.3	219.4	216.4
105°	313.5	311.5	310.4	309.2	308.1	307.0	305.8	304.5	303.1	301.8	300.5
107.5°	389.3	388.3	386.8	385.3	383.8	382.3	381.2	380.5	379.9	379.2	378.5
110°	440.7	440.2	438.9	437.6	436.2	434.9	433.9	433.2	432.6	431.9	431.3



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CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	490.5	490.5	489.9	489.3	488.7	488.1	487.2	486.0	484.8	483.6	482.4
115°	563.5	563.0	563.2	563.5	563.7	563.9	563.7	563.0	562.4	561.7	561.0
117.5°	638.0	638.1	637.6	637.1	636.6	636.1	635.5	634.6	633.7	632.8	631.9
120°	683.3	682.8	683.0	683.3	683.5	683.7	683.4	682.5	681.6	680.7	679.8
122.5°	728.6	728.3	728.0	727.7	727.4	727.1	726.7	726.1	725.6	725.1	724.5
125°	791.3	790.6	791.1	791.5	792.0	792.4	792.2	791.3	790.4	789.5	788.6
127.5°	854.8	854.9	853.9	852.9	851.9	850.8	850.2	850.0	849.8	849.5	849.3
130°	892.7	892.5	891.8	891.1	890.5	889.8	889.3	889.1	888.9	888.7	888.5
132.5°	930.2	930.0	929.1	928.3	927.5	926.6	926.0	925.6	925.2	924.8	924.4
135°	981.7	981.3	980.4	979.5	978.6	977.7	977.4	977.6	977.9	978.1	978.3
137.5°	1031.3	1030.8	1029.8	1028.9	1027.9	1026.9	1026.4	1026.3	1026.2	1026.1	1026.0
140°	1061.8	1061.2	1060.7	1060.3	1059.8	1059.4	1058.9	1058.5	1058.1	1057.6	1057.2
142.5°	1090.4	1089.9	1089.6	1089.4	1089.1	1088.8	1088.3	1087.5	1086.7	1085.9	1085.1
145°	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1130.7	1130.0	1129.4	1128.7	1128.0
147.5°	1167.0	1166.8	1167.0	1167.2	1167.4	1167.7	1167.2	1165.9	1164.7	1163.4	1162.2
150°	1189.9	1189.9	1190.2	1190.4	1190.6	1190.8	1190.5	1189.6	1188.7	1187.8	1186.9
152.5°	1209.5	1209.1	1209.5	1209.9	1210.3	1210.7	1210.5	1209.8	1209.1	1208.4	1207.7
155°	1235.7	1234.9	1235.5	1236.2	1236.9	1237.5	1237.7	1237.5	1237.3	1237.1	1236.9
157.5°	1258.6	1257.4	1258.2	1258.9	1259.7	1260.4	1260.9	1261.0	1261.1	1261.3	1261.4
160°	1273.1	1271.8	1272.0	1272.2	1272.5	1272.7	1273.1	1273.8	1274.5	1275.1	1275.8
162.5°	1285.1	1283.8	1284.0	1284.2	1284.4	1284.7	1285.2	1286.0	1286.9	1287.7	1288.6
165°	1301.5	1299.7	1299.7	1299.7	1299.7	1299.7	1300.3	1301.4	1302.5	1303.6	1304.7
167.5°	1313.7	1311.7	1311.9	1312.0	1312.1	1312.3	1312.9	1314.1	1315.2	1316.4	1317.5
170°	1321.5	1319.7	1319.5	1319.3	1319.0	1318.8	1319.4	1320.7	1322.0	1323.4	1324.7
172.5°	1326.3	1324.5	1324.3	1324.1	1323.8	1323.6	1324.2	1325.5	1326.8	1328.2	1329.5
175°	1331.7	1329.7	1329.5	1329.3	1329.0	1328.8	1329.4	1330.7	1332.0	1333.4	1334.7
177.5°	1334.5	1333.1	1332.7	1332.4	1332.0	1331.7	1332.1	1333.4	1334.6	1335.8	1337.1
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332973

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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°	12.7	12.8	13.0	13.1	14.1	15.8	17.6	19.4	21.2	22.5	23.8
95°	47.4	39.8	32.3	24.7	21.1	21.3	21.5	21.7	22.0	23.3	24.6
97.5°	121.3	126.0	130.7	135.4	125.4	100.6	75.9	51.1	26.4	26.5	26.6
100°	167.7	171.7	175.7	179.7	166.4	135.8	105.2	74.5	43.9	40.2	36.4
102.5°	219.4	222.3	225.2	228.1	227.6	223.6	219.6	215.6	211.6	170.9	130.3
105°	301.8	303.1	304.5	305.8	307.0	308.1	309.2	310.4	311.5	313.5	315.5
107.5°	379.2	379.9	380.5	381.2	382.3	383.8	385.3	386.8	388.3	389.3	390.3
110°	431.9	432.6	433.2	433.9	434.9	436.2	437.6	438.9	440.2	440.7	441.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	483.6	484.8	486.0	487.2	488.1	488.7	489.3	489.9	490.5	490.5	490.4
115°	561.7	562.4	563.0	563.7	563.9	563.7	563.5	563.2	563.0	563.5	563.9
117.5°	632.8	633.7	634.6	635.5	636.1	636.6	637.1	637.6	638.1	638.0	637.9
120°	680.7	681.6	682.5	683.4	683.7	683.5	683.3	683.0	682.8	683.3	683.7
122.5°	725.1	725.6	726.1	726.7	727.1	727.4	727.7	728.0	728.3	728.6	728.9
125°	789.5	790.4	791.3	792.2	792.4	792.0	791.5	791.1	790.6	791.3	792.0
127.5°	849.5	849.8	850.0	850.2	850.8	851.9	852.9	853.9	854.9	854.8	854.7
130°	888.7	888.9	889.1	889.3	889.8	890.5	891.1	891.8	892.5	892.7	892.9
132.5°	924.8	925.2	925.6	926.0	926.6	927.5	928.3	929.1	930.0	930.2	930.4
135°	978.1	977.9	977.6	977.4	977.7	978.6	979.5	980.4	981.3	981.7	982.2
137.5°	1026.1	1026.2	1026.3	1026.4	1026.9	1027.9	1028.9	1029.8	1030.8	1031.3	1031.8
140°	1057.6	1058.1	1058.5	1058.9	1059.4	1059.8	1060.3	1060.7	1061.2	1061.8	1062.5
142.5°	1085.9	1086.7	1087.5	1088.3	1088.8	1089.1	1089.4	1089.6	1089.9	1090.4	1090.9
145°	1128.7	1129.4	1130.0	1130.7	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.5
147.5°	1163.4	1164.7	1165.9	1167.2	1167.7	1167.4	1167.2	1167.0	1166.8	1167.0	1167.1
150°	1187.8	1188.7	1189.6	1190.5	1190.8	1190.6	1190.4	1190.2	1189.9	1189.9	1189.9
152.5°	1208.4	1209.1	1209.8	1210.5	1210.7	1210.3	1209.9	1209.5	1209.1	1209.5	1209.8
155°	1237.1	1237.3	1237.5	1237.7	1237.5	1236.9	1236.2	1235.5	1234.9	1235.7	1236.6
157.5°	1261.3	1261.1	1261.0	1260.9	1260.4	1259.7	1258.9	1258.2	1257.4	1258.6	1259.7
160°	1275.1	1274.5	1273.8	1273.1	1272.7	1272.5	1272.2	1272.0	1271.8	1273.1	1274.5
162.5°	1287.7	1286.9	1286.0	1285.2	1284.7	1284.4	1284.2	1284.0	1283.8	1285.1	1286.4
165°	1303.6	1302.5	1301.4	1300.3	1299.7	1299.7	1299.7	1299.7	1299.7	1301.5	1303.3
167.5°	1316.4	1315.2	1314.1	1312.9	1312.3	1312.1	1312.0	1311.9	1311.7	1313.7	1315.6
170°	1323.4	1322.0	1320.7	1319.4	1318.8	1319.0	1319.3	1319.5	1319.7	1321.5	1323.3
172.5°	1328.2	1326.8	1325.5	1324.2	1323.6	1323.8	1324.1	1324.3	1324.5	1326.3	1328.1
175°	1333.4	1332.0	1330.7	1329.4	1328.8	1329.0	1329.3	1329.5	1329.7	1331.7	1333.7
177.5°	1335.8	1334.6	1333.4	1332.1	1331.7	1332.0	1332.4	1332.7	1333.1	1334.5	1335.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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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°	25.2	26.5	27.2	27.3	27.4	27.5	27.6
95°	26.0	27.3	28.1	28.3	28.5	28.7	28.9
97.5°	26.8	26.9	27.1	27.3	27.5	27.7	28.0
100°	32.6	28.8	27.1	27.3	27.5	27.7	28.0
102.5°	89.6	48.9	28.6	28.6	28.7	28.7	28.8
105°	317.4	319.4	316.5	308.5	300.5	292.5	284.5
107.5°	391.3	392.2	393.1	394.0	394.8	395.7	396.5
110°	441.6	442.0	442.6	443.2	443.9	444.6	445.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	490.3	490.2	490.6	491.4	492.3	493.1	493.9
115°	564.4	564.8	565.0	565.0	565.0	565.0	565.0
117.5°	637.8	637.7	637.7	637.6	637.5	637.4	637.3
120°	684.1	684.6	684.6	684.1	683.7	683.3	682.8
122.5°	729.1	729.4	729.3	728.9	728.4	728.0	727.5
125°	792.6	793.3	793.7	794.0	794.2	794.4	794.6
127.5°	854.5	854.4	854.2	854.1	853.9	853.7	853.5
130°	893.1	893.3	893.5	893.5	893.5	893.5	893.5
132.5°	930.7	930.9	930.9	930.7	930.5	930.4	930.2
135°	982.6	983.1	983.5	984.0	984.4	984.8	985.3
137.5°	1032.3	1032.8	1032.9	1032.8	1032.7	1032.5	1032.4
140°	1063.2	1063.8	1064.3	1064.5	1064.7	1064.9	1065.2
142.5°	1091.4	1091.9	1092.1	1092.2	1092.2	1092.3	1092.3
145°	1131.7	1131.9	1132.3	1132.7	1133.1	1133.6	1134.0
147.5°	1167.3	1167.5	1167.7	1167.9	1168.1	1168.4	1168.6
150°	1189.9	1189.9	1190.0	1190.3	1190.5	1190.7	1190.9
152.5°	1210.2	1210.5	1210.6	1210.5	1210.4	1210.2	1210.1
155°	1237.5	1238.4	1238.5	1237.9	1237.2	1236.5	1235.9
157.5°	1260.9	1262.0	1262.0	1260.9	1259.7	1258.6	1257.4
160°	1275.8	1277.1	1277.1	1275.8	1274.5	1273.1	1271.8
162.5°	1287.8	1289.1	1289.0	1287.5	1286.0	1284.5	1283.0
165°	1305.1	1306.8	1306.7	1304.7	1302.7	1300.7	1298.7
167.5°	1317.6	1319.5	1319.4	1317.2	1315.0	1312.7	1310.5
170°	1325.0	1326.8	1326.6	1324.4	1322.2	1319.9	1317.7
172.5°	1329.8	1331.6	1331.3	1328.9	1326.5	1324.1	1321.7
175°	1335.7	1337.7	1337.3	1334.7	1332.0	1329.4	1326.7
177.5°	1337.3	1338.8	1338.4	1336.3	1334.2	1332.0	1329.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7

(END OF REPORT)