

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: P332463-840

Luminaire Tested: **S123RDIW-S1000D1320U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332463-840
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: S123RDIW-S1000D1320U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8621.7 lumens
Efficiency: N/A
Efficacy: 123.5 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

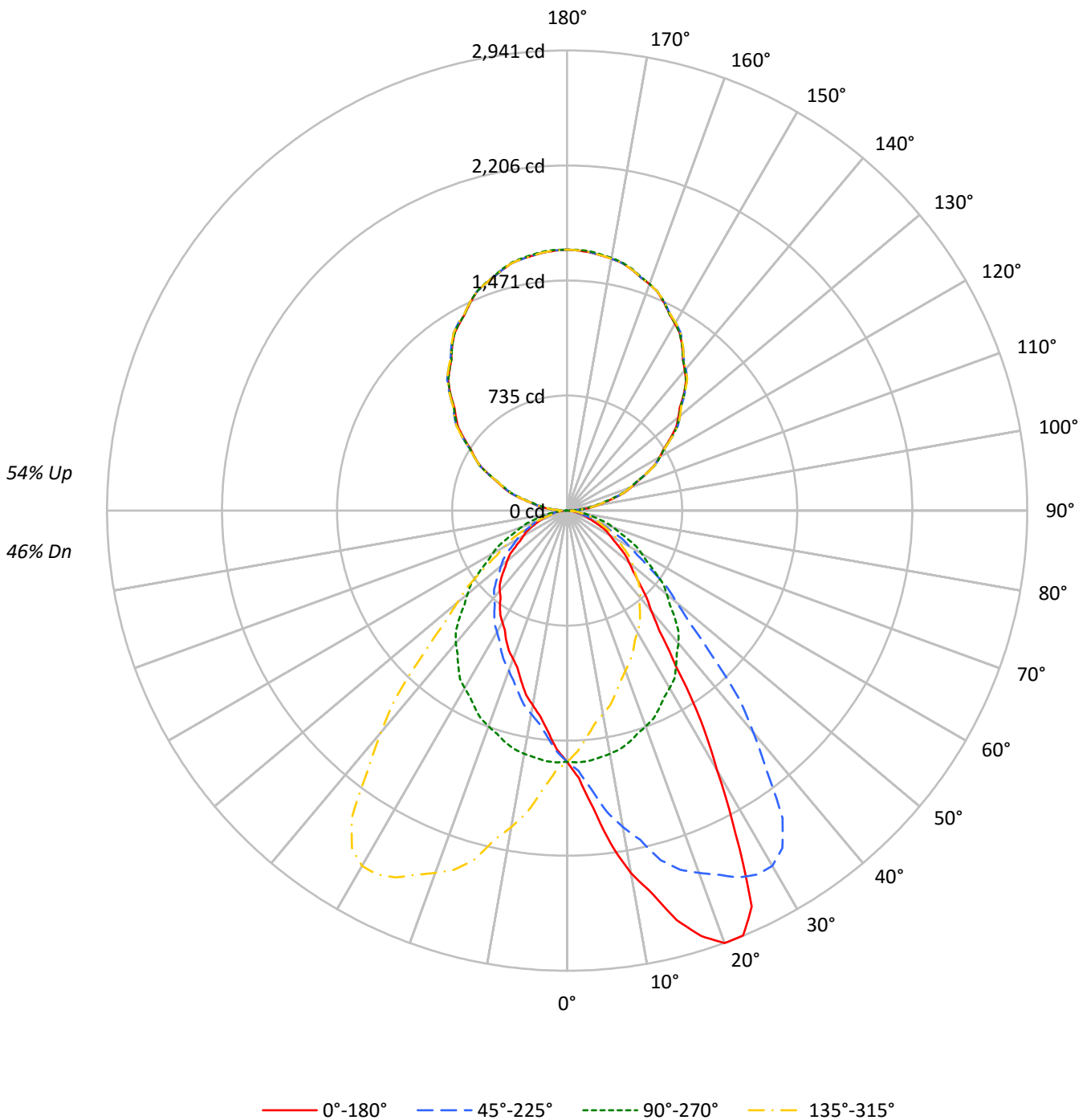
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	42	41	39	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	28	26	23	20
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	29	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17280	17280	17280	17280
5°	20599	17354	15282	17354
10°	25719	17254	13806	17254
15°	30190	17079	12590	17079
20°	33693	16814	11557	16814
25°	33155	16537	10922	16537
30°	23832	16281	10268	16281
35°	15912	15948	9843	15948
40°	11724	15548	9405	15548
45°	9834	14845	8977	14845
50°	8678	13924	8378	13924
55°	7610	12872	7557	12872
60°	6777	11866	6923	11866
65°	5952	10781	6441	10781
70°	4674	9819	5882	9819
75°	4117	8576	5373	8576
80°	3583	7283	5281	7283
85°	2878	5866	5595	5866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.8
10°-20°	493.2	5.7
20°-30°	774.9	9.0
30°-40°	808.4	9.4
40°-50°	691.8	8.0
50°-60°	527.3	6.1
60°-70°	338.0	3.9
70°-80°	162.6	1.9
80°-90°	48.0	0.6
90°-100°	108.6	1.3
100°-110°	325.1	3.8
110°-120°	553.0	6.4
120°-130°	727.3	8.4
130°-140°	817.5	9.5
140°-150°	803.6	9.3
150°-160°	676.5	7.8
160°-170°	450.3	5.2
170°-180°	157.7	1.8
0°-30°	1426.0	16.5
0°-40°	2234.4	25.9
0°-60°	3453.6	40.1
0°-90°	4002.1	46.4
90°-120°	986.7	11.4
90°-150°	3335.1	38.7
90°-180°	4620.0	53.6
0°-180°	8621.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1605	1605	1605	1605	1605	
5°	1906	1606	1414	1606	1906	197
15°	2709	1533	1130	1533	2709	768
25°	2792	1392	920	1392	2792	1200
35°	1211	1214	749	1214	1211	794
45°	646	975	590	975	646	508
55°	406	686	403	686	406	367
65°	234	423	253	423	234	230
75°	99	206	129	206	99	106
85°	23	48	45	48	23	28
90°	39	1	39	1	39	20
95°	102	77	102	77	102	105
105°	312	295	312	295	312	331
115°	558	557	558	557	558	552
125°	806	815	806	815	806	720
135°	1056	1057	1056	1057	1056	812
145°	1282	1282	1282	1282	1282	800
155°	1466	1468	1466	1468	1466	675
165°	1594	1599	1594	1599	1594	450
175°	1657	1663	1657	1663	1657	157
180°	1667	1667	1667	1667	1667	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1709.9	1712.0	1705.0	1703.8	1695.6	1693.3	1693.3	1681.8	1674.7	1665.4	1659.8
5°	1906.4	1917.4	1911.9	1899.6	1879.0	1874.1	1861.1	1840.5	1817.1	1788.2	1774.4
7.5°	2151.9	2166.9	2161.1	2142.0	2120.4	2102.9	2066.2	2031.9	1984.0	1941.9	1905.9
10°	2353.1	2337.3	2324.9	2306.4	2286.4	2254.1	2215.6	2162.7	2101.6	2053.5	1999.9
12.5°	2503.8	2501.1	2485.5	2466.4	2438.2	2407.5	2360.3	2295.8	2224.7	2155.3	2093.9
15°	2709.2	2713.2	2702.9	2683.0	2643.1	2588.9	2517.4	2490.6	2388.8	2313.3	2237.7
17.5°	2851.3	2850.4	2849.0	2821.5	2780.8	2742.1	2675.8	2605.4	2513.3	2406.7	2304.9
20°	2941.4	2934.6	2935.9	2905.0	2874.8	2830.0	2765.5	2663.1	2587.5	2464.5	2359.3
22.5°	2939.2	2937.8	2943.0	2932.4	2910.5	2876.3	2825.4	2739.0	2642.4	2518.3	2400.0
25°	2791.6	2786.1	2818.4	2827.3	2862.4	2868.5	2853.5	2806.0	2714.6	2586.8	2440.4
27.5°	2336.3	2333.3	2393.3	2468.3	2563.4	2637.4	2708.9	2743.4	2714.6	2623.1	2476.4
30°	1917.4	1982.1	2012.3	2120.8	2241.8	2386.1	2512.5	2632.8	2662.4	2622.5	2502.2
32.5°	1592.0	1648.3	1673.5	1766.8	1879.5	2048.5	2238.3	2408.5	2528.8	2559.3	2486.9
35°	1210.9	1211.6	1269.3	1310.6	1415.0	1588.9	1773.1	2001.2	2228.1	2399.8	2417.7
37.5°	966.2	969.7	1004.6	1045.7	1124.1	1216.0	1378.2	1567.9	1829.9	2093.7	2248.3
40°	834.4	840.5	866.7	907.2	963.5	1032.9	1159.4	1338.1	1556.6	1850.1	2089.9
42.5°	749.6	759.7	773.2	804.4	839.3	904.2	1006.5	1144.6	1343.3	1620.8	1897.5
45°	646.0	651.5	661.9	676.2	707.8	753.3	821.9	914.7	1079.6	1303.0	1579.9
47.5°	569.9	566.9	577.8	589.6	610.6	641.5	687.5	763.3	880.9	1060.2	1295.1
50°	518.2	517.5	525.0	534.0	553.9	576.6	614.4	671.5	764.9	913.3	1128.4
52.5°	469.8	472.4	477.8	488.9	503.3	521.6	555.5	596.6	676.9	805.1	984.4
55°	405.5	407.6	415.1	421.3	431.6	450.1	471.4	505.8	560.8	650.2	797.9
57.5°	351.0	350.1	357.4	358.9	370.5	385.7	402.1	428.9	468.7	535.1	634.6
60°	314.8	312.7	318.9	323.7	329.9	342.2	356.0	382.1	413.7	462.5	547.8
62.5°	281.8	280.8	285.4	290.1	295.3	306.5	318.1	338.1	363.1	404.2	471.9
65°	233.7	235.7	237.8	239.8	242.6	249.4	260.4	274.2	291.3	320.2	369.0
67.5°	183.6	185.7	186.4	190.7	196.5	200.9	207.5	219.7	231.8	256.1	283.9
70°	148.5	147.7	148.5	150.5	158.0	165.6	174.6	183.5	191.1	208.2	231.6
72.5°	127.5	126.3	128.2	128.6	132.2	134.3	140.0	148.3	158.0	169.8	186.5
75°	99.0	99.0	99.0	99.0	101.7	103.1	105.1	107.2	110.7	116.1	128.6
77.5°	73.1	73.2	74.2	74.9	75.4	76.2	77.6	79.6	80.8	83.7	89.1
80°	57.8	58.4	57.8	58.4	58.4	59.8	60.5	62.5	63.2	66.7	68.8
82.5°	43.4	43.0	43.4	44.1	44.1	45.5	45.6	47.2	47.3	49.1	51.1
85°	23.3	22.0	23.3	22.7	24.0	22.7	23.3	24.7	24.7	25.4	28.2
87.5°	13.3	14.3	13.1	13.5	13.4	13.8	13.6	13.3	14.2	13.4	13.2
90°	39.3	38.7	38.2	37.6	37.0	36.1	34.9	33.7	32.6	31.4	27.7
92.5°	52.9	53.2	53.6	53.9	54.3	54.0	53.1	52.1	51.2	50.3	48.2
95°	102.2	102.2	102.2	102.2	102.2	101.6	100.4	99.3	98.1	96.9	94.6
97.5°	157.1	157.3	157.4	157.5	157.6	157.0	155.7	154.3	153.0	151.7	150.0
100°	199.0	198.5	197.9	197.3	196.7	196.0	195.1	194.3	193.4	192.6	191.1
102.5°	242.1	242.2	242.3	242.4	242.5	242.2	241.3	240.3	239.5	238.6	236.7
105°	311.7	311.1	310.5	310.0	309.4	309.1	309.1	309.1	309.1	309.1	306.5
107.5°	384.3	384.7	385.0	385.4	385.7	385.4	384.5	383.5	382.6	381.6	380.6
110°	433.5	434.1	434.7	435.3	435.9	435.6	434.4	433.2	432.1	430.9	430.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	485.9	486.0	486.1	486.3	486.4	485.7	484.3	482.9	481.6	480.2	480.1
115°	558.0	558.3	558.6	558.9	559.2	559.2	558.9	558.6	558.3	558.0	558.6
117.5°	631.1	631.9	632.7	633.5	634.3	634.7	634.8	634.9	634.9	635.0	635.7
120°	682.4	683.0	683.6	684.2	684.7	685.2	685.5	685.7	686.0	686.3	687.8
122.5°	731.6	732.5	733.3	734.1	734.9	735.7	736.4	737.2	737.9	738.7	739.4
125°	805.5	806.7	807.8	809.0	810.2	811.3	812.5	813.6	814.9	816.0	816.6
127.5°	879.1	880.5	881.8	883.1	884.4	886.0	887.6	889.2	890.8	892.5	893.1
130°	927.4	929.4	931.4	933.4	935.4	937.1	938.3	939.4	940.6	941.7	942.6
132.5°	977.7	979.2	980.8	982.3	983.9	985.4	986.7	988.2	989.6	991.0	991.6
135°	1055.7	1056.2	1056.8	1057.4	1058.0	1058.8	1060.1	1061.2	1062.4	1063.5	1063.8
137.5°	1124.6	1125.7	1126.8	1127.9	1129.0	1130.1	1131.4	1132.6	1133.8	1135.1	1134.3
140°	1169.6	1171.6	1173.7	1175.8	1177.8	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8
142.5°	1215.8	1217.3	1218.9	1220.4	1222.0	1222.9	1223.2	1223.6	1223.9	1224.2	1223.6
145°	1282.2	1283.4	1284.5	1285.8	1287.0	1287.7	1288.0	1288.2	1288.5	1288.8	1288.0
147.5°	1341.5	1343.2	1344.9	1346.8	1348.5	1349.3	1349.3	1349.3	1349.3	1349.3	1348.5
150°	1379.2	1380.9	1382.7	1384.4	1386.1	1387.0	1387.0	1387.0	1387.0	1387.0	1386.4
152.5°	1415.8	1417.3	1418.9	1420.4	1421.9	1422.4	1422.0	1421.5	1421.1	1420.6	1420.3
155°	1465.6	1467.6	1469.8	1471.8	1473.8	1474.2	1473.1	1471.9	1470.8	1469.6	1469.3
157.5°	1511.0	1512.6	1514.2	1515.8	1517.4	1517.7	1516.4	1515.2	1514.0	1512.8	1512.6
160°	1540.2	1541.5	1542.7	1543.8	1545.0	1544.8	1543.4	1541.9	1540.4	1538.9	1538.9
162.5°	1562.3	1564.2	1566.0	1567.9	1569.7	1569.9	1568.5	1567.0	1565.6	1564.1	1563.9
165°	1594.0	1596.0	1598.1	1600.1	1602.2	1602.3	1600.5	1598.8	1597.0	1595.3	1595.3
167.5°	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2	1626.4	1624.6	1622.8	1620.9	1620.7
170°	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7	1640.7	1638.7	1636.6	1634.6	1634.6
172.5°	1645.1	1647.1	1649.1	1651.2	1653.3	1653.4	1651.5	1649.7	1647.9	1646.1	1646.1
175°	1656.9	1658.9	1660.9	1662.9	1665.0	1665.2	1663.4	1661.6	1659.9	1658.2	1658.2
177.5°	1663.1	1664.8	1666.4	1668.0	1669.7	1669.8	1668.4	1667.0	1665.6	1664.2	1664.2
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1657.6	1656.0	1648.3	1639.5	1627.9	1620.2	1614.2	1610.9	1601.0	1588.9	1580.6
5°	1760.0	1739.4	1717.5	1690.6	1665.9	1640.4	1624.7	1606.1	1583.4	1558.0	1540.1
7.5°	1869.8	1829.3	1785.7	1740.8	1696.4	1656.6	1621.3	1591.2	1555.1	1518.6	1493.1
10°	1953.9	1894.7	1833.6	1771.0	1713.9	1660.4	1619.1	1578.6	1535.3	1493.4	1461.8
12.5°	2030.2	1952.5	1882.0	1805.1	1732.1	1668.1	1608.7	1561.0	1508.9	1464.2	1428.3
15°	2127.0	2047.3	1962.1	1845.2	1748.4	1667.3	1595.1	1532.6	1469.4	1414.3	1379.3
17.5°	2217.5	2097.5	1983.0	1885.5	1759.6	1658.3	1570.2	1495.4	1426.0	1367.8	1324.6
20°	2254.8	2138.7	2014.3	1890.0	1766.3	1652.8	1550.4	1467.9	1395.8	1329.8	1290.0
22.5°	2277.3	2145.9	2014.9	1881.2	1749.7	1631.9	1530.7	1440.0	1361.7	1299.0	1249.8
25°	2303.6	2147.0	2002.7	1870.7	1736.7	1608.8	1488.5	1392.4	1307.9	1241.1	1188.9
27.5°	2321.0	2136.7	1966.1	1819.4	1683.4	1556.2	1445.9	1343.9	1258.2	1187.7	1131.7
30°	2324.3	2128.4	1938.0	1779.3	1641.1	1524.3	1407.4	1309.9	1219.2	1144.3	1092.1
32.5°	2328.6	2108.1	1900.1	1731.4	1590.0	1474.3	1368.5	1275.3	1182.3	1108.5	1055.2
35°	2310.6	2096.8	1842.5	1648.7	1507.1	1395.1	1299.6	1213.7	1122.3	1050.8	996.5
37.5°	2232.4	2052.1	1782.8	1555.5	1407.4	1303.7	1225.9	1151.0	1067.1	990.1	938.9
40°	2153.8	2008.1	1736.7	1498.8	1344.2	1237.7	1167.6	1106.5	1025.4	953.2	898.3
42.5°	2036.7	1948.2	1692.7	1439.5	1272.7	1170.1	1111.0	1053.7	982.5	909.2	857.6
45°	1821.9	1833.6	1602.7	1344.9	1173.8	1070.8	1015.0	975.2	912.0	851.5	798.6
47.5°	1552.5	1661.7	1496.9	1244.2	1069.4	972.7	924.0	889.3	846.7	787.3	739.0
50°	1376.5	1532.6	1412.3	1176.6	1004.1	907.9	859.7	831.5	794.5	747.7	701.7
52.5°	1214.4	1381.9	1310.0	1101.3	933.1	845.2	798.2	775.0	745.5	701.6	659.8
55°	990.3	1160.0	1143.6	987.5	826.8	747.7	712.0	685.9	665.9	633.0	600.0
57.5°	801.0	962.0	970.5	861.1	733.1	654.9	624.2	604.5	591.5	566.5	536.0
60°	681.8	829.5	858.4	775.9	665.9	597.2	566.9	551.2	540.9	520.9	497.6
62.5°	582.8	708.5	741.2	681.9	601.6	537.2	513.6	498.4	491.4	474.2	453.6
65°	446.1	550.5	582.1	549.1	507.2	455.7	436.4	423.3	417.2	407.6	392.4
67.5°	335.4	411.5	446.2	422.9	407.8	375.3	363.0	356.0	350.5	343.9	331.2
70°	269.4	325.8	361.5	355.3	343.0	325.8	316.8	312.0	306.5	301.0	290.0
72.5°	216.6	255.4	288.9	292.1	282.0	278.5	270.6	268.6	265.3	258.7	252.7
75°	143.6	170.5	193.8	202.8	206.8	210.3	206.8	206.2	205.5	200.0	196.5
77.5°	94.1	108.6	123.3	138.6	145.0	149.7	150.8	153.3	151.5	148.6	146.9
80°	72.2	75.6	85.9	99.0	109.3	113.4	116.1	117.5	116.8	116.1	113.4
82.5°	52.4	55.2	60.1	69.3	78.0	84.8	86.4	86.1	87.7	88.1	85.9
85°	28.2	28.9	30.2	31.6	36.5	44.0	46.0	47.5	48.8	48.8	44.6
87.5°	13.5	12.2	12.6	11.9	13.0	12.9	15.7	17.9	19.0	17.4	18.0
90°	23.8	20.1	16.3	12.9	10.0	7.2	4.2	1.3	4.2	7.2	10.0
92.5°	45.9	43.8	41.7	39.6	37.7	35.6	33.6	31.7	33.6	35.6	37.7
95°	92.3	90.0	87.7	85.4	83.4	81.4	79.3	77.3	79.3	81.4	83.4
97.5°	148.2	146.6	144.9	143.3	141.8	140.3	138.8	137.2	138.8	140.3	141.8
100°	189.7	188.1	186.7	185.1	183.4	181.6	179.9	178.1	179.9	181.6	183.4
102.5°	234.8	232.9	231.0	229.4	228.4	227.4	226.3	225.3	226.3	227.4	228.4
105°	303.9	301.2	298.6	297.0	296.4	295.9	295.3	294.7	295.3	295.9	296.4
107.5°	379.6	378.5	377.5	376.8	376.5	376.1	375.8	375.4	375.8	376.1	376.5
110°	429.8	429.2	428.6	428.0	427.4	426.9	426.3	425.7	426.3	426.9	427.4



TEST NUMBER: P332463-840

CATALOG NUMBER: S123RDIW-S1000D1320U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	479.9	479.8	479.7	479.5	479.1	478.8	478.4	478.1	478.4	478.8	479.1
115°	559.2	559.7	560.3	560.2	559.3	558.4	557.5	556.6	557.5	558.4	559.3
117.5°	636.5	637.2	638.0	638.1	637.5	636.9	636.3	635.8	636.3	636.9	637.5
120°	689.2	690.6	692.2	692.0	690.2	688.5	686.7	685.0	686.7	688.5	690.2
122.5°	740.2	740.9	741.7	741.4	740.2	738.9	737.6	736.4	737.6	738.9	740.2
125°	817.2	817.7	818.3	818.2	817.3	816.4	815.6	814.7	815.6	816.4	817.3
127.5°	893.7	894.4	895.0	894.4	892.5	890.7	888.9	887.0	888.9	890.7	892.5
130°	943.5	944.3	945.2	944.5	942.2	939.9	937.5	935.1	937.5	939.9	942.2
132.5°	992.3	992.9	993.5	992.7	990.4	988.1	985.7	983.4	985.7	988.1	990.4
135°	1064.1	1064.4	1064.7	1064.0	1062.2	1060.5	1058.7	1057.0	1058.7	1060.5	1062.2
137.5°	1133.6	1132.8	1132.1	1130.9	1129.4	1128.0	1126.5	1125.1	1126.5	1128.0	1129.4
140°	1179.5	1179.2	1178.9	1178.1	1176.6	1175.2	1173.7	1172.3	1173.7	1175.2	1176.6
142.5°	1223.0	1222.5	1222.0	1221.0	1219.6	1218.1	1216.7	1215.2	1216.7	1218.1	1219.6
145°	1287.1	1286.2	1285.4	1284.5	1284.0	1283.4	1282.8	1282.2	1282.8	1283.4	1284.0
147.5°	1347.7	1346.9	1346.0	1345.1	1344.1	1343.0	1342.0	1340.9	1342.0	1343.0	1344.1
150°	1385.8	1385.3	1384.7	1384.1	1383.5	1383.0	1382.4	1381.8	1382.4	1383.0	1383.5
152.5°	1419.9	1419.6	1419.2	1418.6	1417.7	1416.9	1416.1	1415.3	1416.1	1416.9	1417.7
155°	1468.9	1468.6	1468.4	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2
157.5°	1512.3	1512.1	1511.9	1511.9	1512.3	1512.6	1513.0	1513.3	1513.0	1512.6	1512.3
160°	1538.9	1538.9	1538.9	1539.2	1539.8	1540.4	1541.1	1541.6	1541.1	1540.4	1539.8
162.5°	1563.7	1563.5	1563.2	1563.5	1564.3	1565.1	1565.9	1566.7	1565.9	1565.1	1564.3
165°	1595.3	1595.3	1595.3	1595.8	1596.6	1597.5	1598.3	1599.2	1598.3	1597.5	1596.6
167.5°	1620.5	1620.2	1620.0	1620.5	1621.6	1622.9	1624.0	1625.2	1624.0	1622.9	1621.6
170°	1634.6	1634.6	1634.6	1635.2	1636.4	1637.5	1638.7	1639.8	1638.7	1637.5	1636.4
172.5°	1646.1	1646.1	1646.1	1646.7	1647.9	1649.0	1650.2	1651.3	1650.2	1649.0	1647.9
175°	1658.2	1658.2	1658.2	1658.7	1659.9	1661.1	1662.2	1663.4	1662.2	1661.1	1659.9
177.5°	1664.2	1664.2	1664.2	1664.7	1665.6	1666.5	1667.5	1668.4	1667.5	1666.5	1665.6
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1577.9	1570.7	1565.8	1554.8	1547.7	1539.9	1532.3	1537.2	1536.7	1536.1	1536.1
5°	1525.0	1509.1	1494.8	1476.2	1464.5	1450.1	1439.1	1437.7	1440.5	1430.9	1425.3
7.5°	1472.5	1450.9	1430.5	1410.0	1388.3	1370.9	1360.1	1354.9	1348.0	1342.0	1335.8
10°	1435.6	1410.3	1390.3	1364.8	1341.5	1320.9	1307.9	1298.9	1294.0	1289.3	1280.3
12.5°	1397.8	1372.8	1347.5	1318.7	1296.5	1272.5	1262.7	1252.7	1243.5	1238.1	1225.9
15°	1342.2	1309.9	1283.1	1252.8	1228.1	1204.8	1191.0	1171.0	1168.3	1161.4	1149.1
17.5°	1286.6	1251.4	1214.5	1192.1	1164.2	1139.8	1118.9	1112.3	1092.6	1085.2	1074.4
20°	1242.5	1210.2	1182.0	1152.6	1112.0	1089.2	1072.8	1063.9	1048.0	1038.4	1031.6
22.5°	1204.6	1171.7	1139.2	1104.7	1071.3	1045.8	1033.8	1019.9	1011.2	997.7	990.3
25°	1150.4	1114.7	1075.5	1038.4	1014.4	995.1	975.9	963.5	951.2	944.9	931.2
27.5°	1087.5	1050.2	1013.5	985.3	955.8	936.9	919.4	908.4	893.5	883.1	875.6
30°	1052.9	1008.9	977.2	951.8	914.0	896.2	883.1	869.4	858.4	847.4	839.8
32.5°	1012.7	972.6	942.6	911.2	882.1	862.6	845.8	833.6	824.3	813.9	806.3
35°	949.8	916.1	885.1	853.5	832.2	812.3	792.4	782.0	773.2	763.6	756.7
37.5°	892.8	861.4	832.0	802.0	775.6	759.4	743.4	735.5	723.4	716.9	709.9
40°	857.7	826.8	795.2	766.3	738.8	726.4	712.0	700.3	689.3	684.5	676.9
42.5°	819.2	788.3	761.6	730.5	708.0	691.3	677.9	665.1	656.9	649.8	645.6
45°	762.1	734.7	708.5	677.6	656.3	641.9	626.7	615.1	607.5	602.7	595.1
47.5°	706.8	679.2	652.8	625.8	605.2	588.7	573.6	565.4	555.4	549.6	544.4
50°	666.6	641.9	613.7	589.0	568.4	551.9	539.5	529.2	520.3	512.7	509.3
52.5°	629.8	603.4	579.1	556.0	534.2	515.5	504.3	493.4	486.8	478.1	474.0
55°	569.1	543.6	523.0	500.3	479.0	463.2	449.5	439.8	432.9	423.3	417.9
57.5°	512.0	489.2	464.5	444.9	422.9	409.6	398.2	385.2	376.8	369.2	363.9
60°	473.5	447.4	426.1	407.6	388.3	371.1	360.8	350.5	341.5	334.0	329.2
62.5°	433.3	410.6	390.3	370.1	352.5	337.6	325.6	317.0	309.1	304.3	299.5
65°	371.8	354.0	333.4	316.8	300.3	289.3	279.7	272.2	266.6	263.2	259.1
67.5°	315.2	297.8	279.8	263.7	252.7	244.3	237.9	231.5	228.7	224.3	221.6
70°	278.3	260.4	244.7	232.3	221.3	215.1	211.0	206.2	203.4	197.9	195.2
72.5°	238.2	225.3	213.9	203.7	194.9	189.2	184.0	178.1	173.7	167.6	164.9
75°	187.6	175.9	167.0	160.2	154.6	147.0	139.5	133.3	131.3	129.2	128.6
77.5°	139.0	131.6	125.1	119.3	112.4	106.9	105.3	103.9	103.5	102.4	102.4
80°	109.3	102.4	97.6	90.7	86.5	86.5	86.5	85.2	85.9	85.9	85.9
82.5°	81.2	74.9	72.3	69.8	69.0	69.6	69.6	69.8	69.4	70.5	70.0
85°	41.9	42.6	44.0	43.3	44.0	44.0	45.3	44.6	45.3	44.0	45.3
87.5°	18.0	20.3	21.6	22.9	24.2	24.4	25.2	25.4	26.3	26.5	26.7
90°	12.9	16.3	20.1	23.8	27.7	31.4	32.6	33.7	34.9	36.1	37.0
92.5°	39.6	41.7	43.8	45.9	48.2	50.3	51.2	52.1	53.1	54.0	54.3
95°	85.4	87.7	90.0	92.3	94.6	96.9	98.1	99.3	100.4	101.6	102.2
97.5°	143.3	144.9	146.6	148.2	150.0	151.7	153.0	154.3	155.7	157.0	157.6
100°	185.1	186.7	188.1	189.7	191.1	192.6	193.4	194.3	195.1	196.0	196.7
102.5°	229.4	231.0	232.9	234.8	236.7	238.6	239.5	240.3	241.3	242.2	242.5
105°	297.0	298.6	301.2	303.9	306.5	309.1	309.1	309.1	309.1	309.1	309.4
107.5°	376.8	377.5	378.5	379.6	380.6	381.6	382.6	383.5	384.5	385.4	385.7
110°	428.0	428.6	429.2	429.8	430.3	430.9	432.1	433.2	434.4	435.6	435.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	479.5	479.7	479.8	479.9	480.1	480.2	481.6	482.9	484.3	485.7	486.4
115°	560.2	560.3	559.7	559.2	558.6	558.0	558.3	558.6	558.9	559.2	559.2
117.5°	638.1	638.0	637.2	636.5	635.7	635.0	634.9	634.9	634.8	634.7	634.3
120°	692.0	692.2	690.6	689.2	687.8	686.3	686.0	685.7	685.5	685.2	684.7
122.5°	741.4	741.7	740.9	740.2	739.4	738.7	737.9	737.2	736.4	735.7	734.9
125°	818.2	818.3	817.7	817.2	816.6	816.0	814.9	813.6	812.5	811.3	810.2
127.5°	894.4	895.0	894.4	893.7	893.1	892.5	890.8	889.2	887.6	886.0	884.4
130°	944.5	945.2	944.3	943.5	942.6	941.7	940.6	939.4	938.3	937.1	935.4
132.5°	992.7	993.5	992.9	992.3	991.6	991.0	989.6	988.2	986.7	985.4	983.9
135°	1064.0	1064.7	1064.4	1064.1	1063.8	1063.5	1062.4	1061.2	1060.1	1058.8	1058.0
137.5°	1130.9	1132.1	1132.8	1133.6	1134.3	1135.1	1133.8	1132.6	1131.4	1130.1	1129.0
140°	1178.1	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8	1179.5	1179.2	1178.9	1177.8
142.5°	1221.0	1222.0	1222.5	1223.0	1223.6	1224.2	1223.9	1223.6	1223.2	1222.9	1222.0
145°	1284.5	1285.4	1286.2	1287.1	1288.0	1288.8	1288.5	1288.2	1288.0	1287.7	1287.0
147.5°	1345.1	1346.0	1346.9	1347.7	1348.5	1349.3	1349.3	1349.3	1349.3	1349.3	1348.5
150°	1384.1	1384.7	1385.3	1385.8	1386.4	1387.0	1387.0	1387.0	1387.0	1387.0	1386.1
152.5°	1418.6	1419.2	1419.6	1419.9	1420.3	1420.6	1421.1	1421.5	1422.0	1422.4	1421.9
155°	1468.2	1468.4	1468.6	1468.9	1469.3	1469.6	1470.8	1471.9	1473.1	1474.2	1473.8
157.5°	1511.9	1511.9	1512.1	1512.3	1512.6	1512.8	1514.0	1515.2	1516.4	1517.7	1517.4
160°	1539.2	1538.9	1538.9	1538.9	1538.9	1538.9	1540.4	1541.9	1543.4	1544.8	1545.0
162.5°	1563.5	1563.2	1563.5	1563.7	1563.9	1564.1	1565.6	1567.0	1568.5	1569.9	1569.7
165°	1595.8	1595.3	1595.3	1595.3	1595.3	1595.3	1597.0	1598.8	1600.5	1602.3	1602.2
167.5°	1620.5	1620.0	1620.2	1620.5	1620.7	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2
170°	1635.2	1634.6	1634.6	1634.6	1634.6	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7
172.5°	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.9	1649.7	1651.5	1653.4	1653.3
175°	1658.7	1658.2	1658.2	1658.2	1658.2	1658.2	1659.9	1661.6	1663.4	1665.2	1665.0
177.5°	1664.7	1664.2	1664.2	1664.2	1664.2	1664.2	1665.6	1667.0	1668.4	1669.8	1669.7
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1529.5	1528.9	1529.5	1527.3	1529.5	1528.9	1529.5	1536.1	1536.1	1536.7	1537.2
5°	1423.3	1422.6	1420.6	1414.3	1420.6	1422.6	1423.3	1425.3	1430.9	1440.5	1437.7
7.5°	1330.5	1329.6	1323.5	1323.6	1323.5	1329.6	1330.5	1335.8	1342.0	1348.0	1354.9
10°	1275.6	1276.2	1268.0	1263.1	1268.0	1276.2	1275.6	1280.3	1289.3	1294.0	1298.9
12.5°	1222.2	1219.0	1212.4	1207.1	1212.4	1219.0	1222.2	1225.9	1238.1	1243.5	1252.7
15°	1151.9	1145.0	1128.4	1129.8	1128.4	1145.0	1151.9	1149.1	1161.4	1168.3	1171.0
17.5°	1068.9	1063.9	1063.6	1054.0	1063.6	1063.9	1068.9	1074.4	1085.2	1092.6	1112.3
20°	1020.6	1017.1	1018.4	1008.9	1018.4	1017.1	1020.6	1031.6	1038.4	1048.0	1063.9
22.5°	982.6	979.2	973.4	970.4	973.4	979.2	982.6	990.3	997.7	1011.2	1019.9
25°	927.1	921.6	916.1	919.6	916.1	921.6	927.1	931.2	944.9	951.2	963.5
27.5°	871.6	867.5	861.9	861.2	861.9	867.5	871.6	875.6	883.1	893.5	908.4
30°	836.4	832.2	829.5	826.1	829.5	832.2	836.4	839.8	847.4	858.4	869.4
32.5°	800.6	799.8	794.9	794.2	794.9	799.8	800.6	806.3	813.9	824.3	833.6
35°	753.9	749.8	748.4	749.1	748.4	749.8	753.9	756.7	763.6	773.2	782.0
37.5°	709.5	704.0	701.6	699.0	701.6	704.0	709.5	709.9	716.9	723.4	735.5
40°	677.6	672.2	670.8	669.3	670.8	672.2	677.6	676.9	684.5	689.3	700.3
42.5°	641.9	639.6	638.8	636.4	638.8	639.6	641.9	645.6	649.8	656.9	665.1
45°	593.1	592.4	588.2	589.7	588.2	592.4	593.1	595.1	602.7	607.5	615.1
47.5°	541.7	538.7	535.7	537.7	535.7	538.7	541.7	544.4	549.6	555.4	565.4
50°	506.5	505.1	499.0	500.3	499.0	505.1	506.5	509.3	512.7	520.3	529.2
52.5°	471.3	466.1	463.7	462.9	463.7	466.1	471.3	474.0	478.1	486.8	493.4
55°	413.0	406.9	404.1	402.7	404.1	406.9	413.0	417.9	423.3	432.9	439.8
57.5°	355.9	354.2	352.0	353.6	352.0	354.2	355.9	363.9	369.2	376.8	385.2
60°	322.3	322.3	322.3	321.6	322.3	322.3	322.3	329.2	334.0	341.5	350.5
62.5°	296.5	294.8	294.3	295.3	294.3	294.8	296.5	299.5	304.3	309.1	317.0
65°	257.0	256.3	253.6	252.9	253.6	256.3	257.0	259.1	263.2	266.6	272.2
67.5°	219.7	217.3	216.5	215.5	216.5	217.3	219.7	221.6	224.3	228.7	231.5
70°	191.8	190.4	186.2	186.9	186.2	190.4	191.8	195.2	197.9	203.4	206.2
72.5°	161.5	160.2	159.3	158.3	159.3	160.2	161.5	164.9	167.6	173.7	178.1
75°	127.8	127.1	126.4	129.2	126.4	127.1	127.8	128.6	129.2	131.3	133.3
77.5°	102.4	102.4	102.8	101.7	102.8	102.4	102.4	102.4	102.4	103.5	103.9
80°	85.9	85.9	85.2	85.2	85.2	85.9	85.9	85.9	85.9	85.9	85.2
82.5°	68.9	69.4	69.8	68.8	69.8	69.4	68.9	70.0	70.5	69.4	69.8
85°	45.3	44.6	46.0	45.3	46.0	44.6	45.3	45.3	44.0	45.3	44.6
87.5°	27.9	26.9	27.0	27.7	27.0	26.9	27.9	26.7	26.5	26.3	25.4
90°	37.6	38.2	38.7	39.3	38.7	38.2	37.6	37.0	36.1	34.9	33.7
92.5°	53.9	53.6	53.2	52.9	53.2	53.6	53.9	54.3	54.0	53.1	52.1
95°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	101.6	100.4	99.3
97.5°	157.5	157.4	157.3	157.1	157.3	157.4	157.5	157.6	157.0	155.7	154.3
100°	197.3	197.9	198.5	199.0	198.5	197.9	197.3	196.7	196.0	195.1	194.3
102.5°	242.4	242.3	242.2	242.1	242.2	242.3	242.4	242.5	242.2	241.3	240.3
105°	310.0	310.5	311.1	311.7	311.1	310.5	310.0	309.4	309.1	309.1	309.1
107.5°	385.4	385.0	384.7	384.3	384.7	385.0	385.4	385.7	385.4	384.5	383.5
110°	435.3	434.7	434.1	433.5	434.1	434.7	435.3	435.9	435.6	434.4	433.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	486.3	486.1	486.0	485.9	486.0	486.1	486.3	486.4	485.7	484.3	482.9
115°	558.9	558.6	558.3	558.0	558.3	558.6	558.9	559.2	559.2	558.9	558.6
117.5°	633.5	632.7	631.9	631.1	631.9	632.7	633.5	634.3	634.7	634.8	634.9
120°	684.2	683.6	683.0	682.4	683.0	683.6	684.2	684.7	685.2	685.5	685.7
122.5°	734.1	733.3	732.5	731.6	732.5	733.3	734.1	734.9	735.7	736.4	737.2
125°	809.0	807.8	806.7	805.5	806.7	807.8	809.0	810.2	811.3	812.5	813.6
127.5°	883.1	881.8	880.5	879.1	880.5	881.8	883.1	884.4	886.0	887.6	889.2
130°	933.4	931.4	929.4	927.4	929.4	931.4	933.4	935.4	937.1	938.3	939.4
132.5°	982.3	980.8	979.2	977.7	979.2	980.8	982.3	983.9	985.4	986.7	988.2
135°	1057.4	1056.8	1056.2	1055.7	1056.2	1056.8	1057.4	1058.0	1058.8	1060.1	1061.2
137.5°	1127.9	1126.8	1125.7	1124.6	1125.7	1126.8	1127.9	1129.0	1130.1	1131.4	1132.6
140°	1175.8	1173.7	1171.6	1169.6	1171.6	1173.7	1175.8	1177.8	1178.9	1179.2	1179.5
142.5°	1220.4	1218.9	1217.3	1215.8	1217.3	1218.9	1220.4	1222.0	1222.9	1223.2	1223.6
145°	1285.8	1284.5	1283.4	1282.2	1283.4	1284.5	1285.8	1287.0	1287.7	1288.0	1288.2
147.5°	1346.8	1344.9	1343.2	1341.5	1343.2	1344.9	1346.8	1348.5	1349.3	1349.3	1349.3
150°	1384.4	1382.7	1380.9	1379.2	1380.9	1382.7	1384.4	1386.1	1387.0	1387.0	1387.0
152.5°	1420.4	1418.9	1417.3	1415.8	1417.3	1418.9	1420.4	1421.9	1422.4	1422.0	1421.5
155°	1471.8	1469.8	1467.6	1465.6	1467.6	1469.8	1471.8	1473.8	1474.2	1473.1	1471.9
157.5°	1515.8	1514.2	1512.6	1511.0	1512.6	1514.2	1515.8	1517.4	1517.7	1516.4	1515.2
160°	1543.8	1542.7	1541.5	1540.2	1541.5	1542.7	1543.8	1545.0	1544.8	1543.4	1541.9
162.5°	1567.9	1566.0	1564.2	1562.3	1564.2	1566.0	1567.9	1569.7	1569.9	1568.5	1567.0
165°	1600.1	1598.1	1596.0	1594.0	1596.0	1598.1	1600.1	1602.2	1602.3	1600.5	1598.8
167.5°	1626.4	1624.6	1622.8	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2	1626.4	1624.6
170°	1640.7	1638.7	1636.6	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7	1640.7	1638.7
172.5°	1651.2	1649.1	1647.1	1645.1	1647.1	1649.1	1651.2	1653.3	1653.4	1651.5	1649.7
175°	1662.9	1660.9	1658.9	1656.9	1658.9	1660.9	1662.9	1665.0	1665.2	1663.4	1661.6
177.5°	1668.0	1666.4	1664.8	1663.1	1664.8	1666.4	1668.0	1669.7	1669.8	1668.4	1667.0
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1532.3	1539.9	1547.7	1554.8	1565.8	1570.7	1577.9	1580.6	1588.9	1601.0	1610.9
5°	1439.1	1450.1	1464.5	1476.2	1494.8	1509.1	1525.0	1540.1	1558.0	1583.4	1606.1
7.5°	1360.1	1370.9	1388.3	1410.0	1430.5	1450.9	1472.5	1493.1	1518.6	1555.1	1591.2
10°	1307.9	1320.9	1341.5	1364.8	1390.3	1410.3	1435.6	1461.8	1493.4	1535.3	1578.6
12.5°	1262.7	1272.5	1296.5	1318.7	1347.5	1372.8	1397.8	1428.3	1464.2	1508.9	1561.0
15°	1191.0	1204.8	1228.1	1252.8	1283.1	1309.9	1342.2	1379.3	1414.3	1469.4	1532.6
17.5°	1118.9	1139.8	1164.2	1192.1	1214.5	1251.4	1286.6	1324.6	1367.8	1426.0	1495.4
20°	1072.8	1089.2	1112.0	1152.6	1182.0	1210.2	1242.5	1290.0	1329.8	1395.8	1467.9
22.5°	1033.8	1045.8	1071.3	1104.7	1139.2	1171.7	1204.6	1249.8	1299.0	1361.7	1440.0
25°	975.9	995.1	1014.4	1038.4	1075.5	1114.7	1150.4	1188.9	1241.1	1307.9	1392.4
27.5°	919.4	936.9	955.8	985.3	1013.5	1050.2	1087.5	1131.7	1187.7	1258.2	1343.9
30°	883.1	896.2	914.0	951.8	977.2	1008.9	1052.9	1092.1	1144.3	1219.2	1309.9
32.5°	845.8	862.6	882.1	911.2	942.6	972.6	1012.7	1055.2	1108.5	1182.3	1275.3
35°	792.4	812.3	832.2	853.5	885.1	916.1	949.8	996.5	1050.8	1122.3	1213.7
37.5°	743.4	759.4	775.6	802.0	832.0	861.4	892.8	938.9	990.1	1067.1	1151.0
40°	712.0	726.4	738.8	766.3	795.2	826.8	857.7	898.3	953.2	1025.4	1106.5
42.5°	677.9	691.3	708.0	730.5	761.6	788.3	819.2	857.6	909.2	982.5	1053.7
45°	626.7	641.9	656.3	677.6	708.5	734.7	762.1	798.6	851.5	912.0	975.2
47.5°	573.6	588.7	605.2	625.8	652.8	679.2	706.8	739.0	787.3	846.7	889.3
50°	539.5	551.9	568.4	589.0	613.7	641.9	666.6	701.7	747.7	794.5	831.5
52.5°	504.3	515.5	534.2	556.0	579.1	603.4	629.8	659.8	701.6	745.5	775.0
55°	449.5	463.2	479.0	500.3	523.0	543.6	569.1	600.0	633.0	665.9	685.9
57.5°	398.2	409.6	422.9	444.9	464.5	489.2	512.0	536.0	566.5	591.5	604.5
60°	360.8	371.1	388.3	407.6	426.1	447.4	473.5	497.6	520.9	540.9	551.2
62.5°	325.6	337.6	352.5	370.1	390.3	410.6	433.3	453.6	474.2	491.4	498.4
65°	279.7	289.3	300.3	316.8	333.4	354.0	371.8	392.4	407.6	417.2	423.3
67.5°	237.9	244.3	252.7	263.7	279.8	297.8	315.2	331.2	343.9	350.5	356.0
70°	211.0	215.1	221.3	232.3	244.7	260.4	278.3	290.0	301.0	306.5	312.0
72.5°	184.0	189.2	194.9	203.7	213.9	225.3	238.2	252.7	258.7	265.3	268.6
75°	139.5	147.0	154.6	160.2	167.0	175.9	187.6	196.5	200.0	205.5	206.2
77.5°	105.3	106.9	112.4	119.3	125.1	131.6	139.0	146.9	148.6	151.5	153.3
80°	86.5	86.5	86.5	90.7	97.6	102.4	109.3	113.4	116.1	116.8	117.5
82.5°	69.6	69.6	69.0	69.8	72.3	74.9	81.2	85.9	88.1	87.7	86.1
85°	45.3	44.0	44.0	43.3	44.0	42.6	41.9	44.6	48.8	48.8	47.5
87.5°	25.2	24.4	24.2	22.9	21.6	20.3	18.0	18.0	17.4	19.0	17.9
90°	32.6	31.4	27.7	23.8	20.1	16.3	12.9	10.0	7.2	4.2	1.3
92.5°	51.2	50.3	48.2	45.9	43.8	41.7	39.6	37.7	35.6	33.6	31.7
95°	98.1	96.9	94.6	92.3	90.0	87.7	85.4	83.4	81.4	79.3	77.3
97.5°	153.0	151.7	150.0	148.2	146.6	144.9	143.3	141.8	140.3	138.8	137.2
100°	193.4	192.6	191.1	189.7	188.1	186.7	185.1	183.4	181.6	179.9	178.1
102.5°	239.5	238.6	236.7	234.8	232.9	231.0	229.4	228.4	227.4	226.3	225.3
105°	309.1	309.1	306.5	303.9	301.2	298.6	297.0	296.4	295.9	295.3	294.7
107.5°	382.6	381.6	380.6	379.6	378.5	377.5	376.8	376.5	376.1	375.8	375.4
110°	432.1	430.9	430.3	429.8	429.2	428.6	428.0	427.4	426.9	426.3	425.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	481.6	480.2	480.1	479.9	479.8	479.7	479.5	479.1	478.8	478.4	478.1
115°	558.3	558.0	558.6	559.2	559.7	560.3	560.2	559.3	558.4	557.5	556.6
117.5°	634.9	635.0	635.7	636.5	637.2	638.0	638.1	637.5	636.9	636.3	635.8
120°	686.0	686.3	687.8	689.2	690.6	692.2	692.0	690.2	688.5	686.7	685.0
122.5°	737.9	738.7	739.4	740.2	740.9	741.7	741.4	740.2	738.9	737.6	736.4
125°	814.9	816.0	816.6	817.2	817.7	818.3	818.2	817.3	816.4	815.6	814.7
127.5°	890.8	892.5	893.1	893.7	894.4	895.0	894.4	892.5	890.7	888.9	887.0
130°	940.6	941.7	942.6	943.5	944.3	945.2	944.5	942.2	939.9	937.5	935.1
132.5°	989.6	991.0	991.6	992.3	992.9	993.5	992.7	990.4	988.1	985.7	983.4
135°	1062.4	1063.5	1063.8	1064.1	1064.4	1064.7	1064.0	1062.2	1060.5	1058.7	1057.0
137.5°	1133.8	1135.1	1134.3	1133.6	1132.8	1132.1	1130.9	1129.4	1128.0	1126.5	1125.1
140°	1179.8	1180.1	1179.8	1179.5	1179.2	1178.9	1178.1	1176.6	1175.2	1173.7	1172.3
142.5°	1223.9	1224.2	1223.6	1223.0	1222.5	1222.0	1221.0	1219.6	1218.1	1216.7	1215.2
145°	1288.5	1288.8	1288.0	1287.1	1286.2	1285.4	1284.5	1284.0	1283.4	1282.8	1282.2
147.5°	1349.3	1349.3	1348.5	1347.7	1346.9	1346.0	1345.1	1344.1	1343.0	1342.0	1340.9
150°	1387.0	1387.0	1386.4	1385.8	1385.3	1384.7	1384.1	1383.5	1383.0	1382.4	1381.8
152.5°	1421.1	1420.6	1420.3	1419.9	1419.6	1419.2	1418.6	1417.7	1416.9	1416.1	1415.3
155°	1470.8	1469.6	1469.3	1468.9	1468.6	1468.4	1468.2	1468.2	1468.2	1468.2	1468.2
157.5°	1514.0	1512.8	1512.6	1512.3	1512.1	1511.9	1511.9	1512.3	1512.6	1513.0	1513.3
160°	1540.4	1538.9	1538.9	1538.9	1538.9	1538.9	1539.2	1539.8	1540.4	1541.1	1541.6
162.5°	1565.6	1564.1	1563.9	1563.7	1563.5	1563.2	1563.5	1564.3	1565.1	1565.9	1566.7
165°	1597.0	1595.3	1595.3	1595.3	1595.3	1595.3	1595.8	1596.6	1597.5	1598.3	1599.2
167.5°	1622.8	1620.9	1620.7	1620.5	1620.2	1620.0	1620.5	1621.6	1622.9	1624.0	1625.2
170°	1636.6	1634.6	1634.6	1634.6	1634.6	1634.6	1635.2	1636.4	1637.5	1638.7	1639.8
172.5°	1647.9	1646.1	1646.1	1646.1	1646.1	1646.1	1646.7	1647.9	1649.0	1650.2	1651.3
175°	1659.9	1658.2	1658.2	1658.2	1658.2	1658.2	1658.7	1659.9	1661.1	1662.2	1663.4
177.5°	1665.6	1664.2	1664.2	1664.2	1664.2	1664.2	1664.7	1665.6	1666.5	1667.5	1668.4
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1614.2	1620.2	1627.9	1639.5	1648.3	1656.0	1657.6	1659.8	1665.4	1674.7	1681.8
5°	1624.7	1640.4	1665.9	1690.6	1717.5	1739.4	1760.0	1774.4	1788.2	1817.1	1840.5
7.5°	1621.3	1656.6	1696.4	1740.8	1785.7	1829.3	1869.8	1905.9	1941.9	1984.0	2031.9
10°	1619.1	1660.4	1713.9	1771.0	1833.6	1894.7	1953.9	1999.9	2053.5	2101.6	2162.7
12.5°	1608.7	1668.1	1732.1	1805.1	1882.0	1952.5	2030.2	2093.9	2155.3	2224.7	2295.8
15°	1595.1	1667.3	1748.4	1845.2	1962.1	2047.3	2127.0	2237.7	2313.3	2388.8	2490.6
17.5°	1570.2	1658.3	1759.6	1885.5	1983.0	2097.5	2217.5	2304.9	2406.7	2513.3	2605.4
20°	1550.4	1652.8	1766.3	1890.0	2014.3	2138.7	2254.8	2359.3	2464.5	2587.5	2663.1
22.5°	1530.7	1631.9	1749.7	1881.2	2014.9	2145.9	2277.3	2400.0	2518.3	2642.4	2739.0
25°	1488.5	1608.8	1736.7	1870.7	2002.7	2147.0	2303.6	2440.4	2586.8	2714.6	2806.0
27.5°	1445.9	1556.2	1683.4	1819.4	1966.1	2136.7	2321.0	2476.4	2623.1	2714.6	2743.4
30°	1407.4	1524.3	1641.1	1779.3	1938.0	2128.4	2324.3	2502.2	2622.5	2662.4	2632.8
32.5°	1368.5	1474.3	1590.0	1731.4	1900.1	2108.1	2328.6	2486.9	2559.3	2528.8	2408.5
35°	1299.6	1395.1	1507.1	1648.7	1842.5	2096.8	2310.6	2417.7	2399.8	2228.1	2001.2
37.5°	1225.9	1303.7	1407.4	1555.5	1782.8	2052.1	2232.4	2248.3	2093.7	1829.9	1567.9
40°	1167.6	1237.7	1344.2	1498.8	1736.7	2008.1	2153.8	2089.9	1850.1	1556.6	1338.1
42.5°	1111.0	1170.1	1272.7	1439.5	1692.7	1948.2	2036.7	1897.5	1620.8	1343.3	1144.6
45°	1015.0	1070.8	1173.8	1344.9	1602.7	1833.6	1821.9	1579.9	1303.0	1079.6	914.7
47.5°	924.0	972.7	1069.4	1244.2	1496.9	1661.7	1552.5	1295.1	1060.2	880.9	763.3
50°	859.7	907.9	1004.1	1176.6	1412.3	1532.6	1376.5	1128.4	913.3	764.9	671.5
52.5°	798.2	845.2	933.1	1101.3	1310.0	1381.9	1214.4	984.4	805.1	676.9	596.6
55°	712.0	747.7	826.8	987.5	1143.6	1160.0	990.3	797.9	650.2	560.8	505.8
57.5°	624.2	654.9	733.1	861.1	970.5	962.0	801.0	634.6	535.1	468.7	428.9
60°	566.9	597.2	665.9	775.9	858.4	829.5	681.8	547.8	462.5	413.7	382.1
62.5°	513.6	537.2	601.6	681.9	741.2	708.5	582.8	471.9	404.2	363.1	338.1
65°	436.4	455.7	507.2	549.1	582.1	550.5	446.1	369.0	320.2	291.3	274.2
67.5°	363.0	375.3	407.8	422.9	446.2	411.5	335.4	283.9	256.1	231.8	219.7
70°	316.8	325.8	343.0	355.3	361.5	325.8	269.4	231.6	208.2	191.1	183.5
72.5°	270.6	278.5	282.0	292.1	288.9	255.4	216.6	186.5	169.8	158.0	148.3
75°	206.8	210.3	206.8	202.8	193.8	170.5	143.6	128.6	116.1	110.7	107.2
77.5°	150.8	149.7	145.0	138.6	123.3	108.6	94.1	89.1	83.7	80.8	79.6
80°	116.1	113.4	109.3	99.0	85.9	75.6	72.2	68.8	66.7	63.2	62.5
82.5°	86.4	84.8	78.0	69.3	60.1	55.2	52.4	51.1	49.1	47.3	47.2
85°	46.0	44.0	36.5	31.6	30.2	28.9	28.2	28.2	25.4	24.7	24.7
87.5°	15.7	12.9	13.0	11.9	12.6	12.2	13.5	13.2	13.4	14.2	13.3
90°	4.2	7.2	10.0	12.9	16.3	20.1	23.8	27.7	31.4	32.6	33.7
92.5°	33.6	35.6	37.7	39.6	41.7	43.8	45.9	48.2	50.3	51.2	52.1
95°	79.3	81.4	83.4	85.4	87.7	90.0	92.3	94.6	96.9	98.1	99.3
97.5°	138.8	140.3	141.8	143.3	144.9	146.6	148.2	150.0	151.7	153.0	154.3
100°	179.9	181.6	183.4	185.1	186.7	188.1	189.7	191.1	192.6	193.4	194.3
102.5°	226.3	227.4	228.4	229.4	231.0	232.9	234.8	236.7	238.6	239.5	240.3
105°	295.3	295.9	296.4	297.0	298.6	301.2	303.9	306.5	309.1	309.1	309.1
107.5°	375.8	376.1	376.5	376.8	377.5	378.5	379.6	380.6	381.6	382.6	383.5
110°	426.3	426.9	427.4	428.0	428.6	429.2	429.8	430.3	430.9	432.1	433.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	478.4	478.8	479.1	479.5	479.7	479.8	479.9	480.1	480.2	481.6	482.9
115°	557.5	558.4	559.3	560.2	560.3	559.7	559.2	558.6	558.0	558.3	558.6
117.5°	636.3	636.9	637.5	638.1	638.0	637.2	636.5	635.7	635.0	634.9	634.9
120°	686.7	688.5	690.2	692.0	692.2	690.6	689.2	687.8	686.3	686.0	685.7
122.5°	737.6	738.9	740.2	741.4	741.7	740.9	740.2	739.4	738.7	737.9	737.2
125°	815.6	816.4	817.3	818.2	818.3	817.7	817.2	816.6	816.0	814.9	813.6
127.5°	888.9	890.7	892.5	894.4	895.0	894.4	893.7	893.1	892.5	890.8	889.2
130°	937.5	939.9	942.2	944.5	945.2	944.3	943.5	942.6	941.7	940.6	939.4
132.5°	985.7	988.1	990.4	992.7	993.5	992.9	992.3	991.6	991.0	989.6	988.2
135°	1058.7	1060.5	1062.2	1064.0	1064.7	1064.4	1064.1	1063.8	1063.5	1062.4	1061.2
137.5°	1126.5	1128.0	1129.4	1130.9	1132.1	1132.8	1133.6	1134.3	1135.1	1133.8	1132.6
140°	1173.7	1175.2	1176.6	1178.1	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8	1179.5
142.5°	1216.7	1218.1	1219.6	1221.0	1222.0	1222.5	1223.0	1223.6	1224.2	1223.9	1223.6
145°	1282.8	1283.4	1284.0	1284.5	1285.4	1286.2	1287.1	1288.0	1288.8	1288.5	1288.2
147.5°	1342.0	1343.0	1344.1	1345.1	1346.0	1346.9	1347.7	1348.5	1349.3	1349.3	1349.3
150°	1382.4	1383.0	1383.5	1384.1	1384.7	1385.3	1385.8	1386.4	1387.0	1387.0	1387.0
152.5°	1416.1	1416.9	1417.7	1418.6	1419.2	1419.6	1419.9	1420.3	1420.6	1421.1	1421.5
155°	1468.2	1468.2	1468.2	1468.2	1468.4	1468.6	1468.9	1469.3	1469.6	1470.8	1471.9
157.5°	1513.0	1512.6	1512.3	1511.9	1511.9	1512.1	1512.3	1512.6	1512.8	1514.0	1515.2
160°	1541.1	1540.4	1539.8	1539.2	1538.9	1538.9	1538.9	1538.9	1538.9	1540.4	1541.9
162.5°	1565.9	1565.1	1564.3	1563.5	1563.2	1563.5	1563.7	1563.9	1564.1	1565.6	1567.0
165°	1598.3	1597.5	1596.6	1595.8	1595.3	1595.3	1595.3	1595.3	1595.3	1597.0	1598.8
167.5°	1624.0	1622.9	1621.6	1620.5	1620.0	1620.2	1620.5	1620.7	1620.9	1622.8	1624.6
170°	1638.7	1637.5	1636.4	1635.2	1634.6	1634.6	1634.6	1634.6	1634.6	1636.6	1638.7
172.5°	1650.2	1649.0	1647.9	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.9	1649.7
175°	1662.2	1661.1	1659.9	1658.7	1658.2	1658.2	1658.2	1658.2	1658.2	1659.9	1661.6
177.5°	1667.5	1666.5	1665.6	1664.7	1664.2	1664.2	1664.2	1664.2	1664.2	1665.6	1667.0
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1693.3	1693.3	1695.6	1703.8	1705.0	1712.0	1709.9
5°	1861.1	1874.1	1879.0	1899.6	1911.9	1917.4	1906.4
7.5°	2066.2	2102.9	2120.4	2142.0	2161.1	2166.9	2151.9
10°	2215.6	2254.1	2286.4	2306.4	2324.9	2337.3	2353.1
12.5°	2360.3	2407.5	2438.2	2466.4	2485.5	2501.1	2503.8
15°	2517.4	2588.9	2643.1	2683.0	2702.9	2713.2	2709.2
17.5°	2675.8	2742.1	2780.8	2821.5	2849.0	2850.4	2851.3
20°	2765.5	2830.0	2874.8	2905.0	2935.9	2934.6	2941.4
22.5°	2825.4	2876.3	2910.5	2932.4	2943.0	2937.8	2939.2
25°	2853.5	2868.5	2862.4	2827.3	2818.4	2786.1	2791.6
27.5°	2708.9	2637.4	2563.4	2468.3	2393.3	2333.3	2336.3
30°	2512.5	2386.1	2241.8	2120.8	2012.3	1982.1	1917.4
32.5°	2238.3	2048.5	1879.5	1766.8	1673.5	1648.3	1592.0
35°	1773.1	1588.9	1415.0	1310.6	1269.3	1211.6	1210.9
37.5°	1378.2	1216.0	1124.1	1045.7	1004.6	969.7	966.2
40°	1159.4	1032.9	963.5	907.2	866.7	840.5	834.4
42.5°	1006.5	904.2	839.3	804.4	773.2	759.7	749.6
45°	821.9	753.3	707.8	676.2	661.9	651.5	646.0
47.5°	687.5	641.5	610.6	589.6	577.8	566.9	569.9
50°	614.4	576.6	553.9	534.0	525.0	517.5	518.2
52.5°	555.5	521.6	503.3	488.9	477.8	472.4	469.8
55°	471.4	450.1	431.6	421.3	415.1	407.6	405.5
57.5°	402.1	385.7	370.5	358.9	357.4	350.1	351.0
60°	356.0	342.2	329.9	323.7	318.9	312.7	314.8
62.5°	318.1	306.5	295.3	290.1	285.4	280.8	281.8
65°	260.4	249.4	242.6	239.8	237.8	235.7	233.7
67.5°	207.5	200.9	196.5	190.7	186.4	185.7	183.6
70°	174.6	165.6	158.0	150.5	148.5	147.7	148.5
72.5°	140.0	134.3	132.2	128.6	128.2	126.3	127.5
75°	105.1	103.1	101.7	99.0	99.0	99.0	99.0
77.5°	77.6	76.2	75.4	74.9	74.2	73.2	73.1
80°	60.5	59.8	58.4	58.4	57.8	58.4	57.8
82.5°	45.6	45.5	44.1	44.1	43.4	43.0	43.4
85°	23.3	22.7	24.0	22.7	23.3	22.0	23.3
87.5°	13.6	13.8	13.4	13.5	13.1	14.3	13.3
90°	34.9	36.1	37.0	37.6	38.2	38.7	39.3
92.5°	53.1	54.0	54.3	53.9	53.6	53.2	52.9
95°	100.4	101.6	102.2	102.2	102.2	102.2	102.2
97.5°	155.7	157.0	157.6	157.5	157.4	157.3	157.1
100°	195.1	196.0	196.7	197.3	197.9	198.5	199.0
102.5°	241.3	242.2	242.5	242.4	242.3	242.2	242.1
105°	309.1	309.1	309.4	310.0	310.5	311.1	311.7
107.5°	384.5	385.4	385.7	385.4	385.0	384.7	384.3
110°	434.4	435.6	435.9	435.3	434.7	434.1	433.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	484.3	485.7	486.4	486.3	486.1	486.0	485.9
115°	558.9	559.2	559.2	558.9	558.6	558.3	558.0
117.5°	634.8	634.7	634.3	633.5	632.7	631.9	631.1
120°	685.5	685.2	684.7	684.2	683.6	683.0	682.4
122.5°	736.4	735.7	734.9	734.1	733.3	732.5	731.6
125°	812.5	811.3	810.2	809.0	807.8	806.7	805.5
127.5°	887.6	886.0	884.4	883.1	881.8	880.5	879.1
130°	938.3	937.1	935.4	933.4	931.4	929.4	927.4
132.5°	986.7	985.4	983.9	982.3	980.8	979.2	977.7
135°	1060.1	1058.8	1058.0	1057.4	1056.8	1056.2	1055.7
137.5°	1131.4	1130.1	1129.0	1127.9	1126.8	1125.7	1124.6
140°	1179.2	1178.9	1177.8	1175.8	1173.7	1171.6	1169.6
142.5°	1223.2	1222.9	1222.0	1220.4	1218.9	1217.3	1215.8
145°	1288.0	1287.7	1287.0	1285.8	1284.5	1283.4	1282.2
147.5°	1349.3	1349.3	1348.5	1346.8	1344.9	1343.2	1341.5
150°	1387.0	1387.0	1386.1	1384.4	1382.7	1380.9	1379.2
152.5°	1422.0	1422.4	1421.9	1420.4	1418.9	1417.3	1415.8
155°	1473.1	1474.2	1473.8	1471.8	1469.8	1467.6	1465.6
157.5°	1516.4	1517.7	1517.4	1515.8	1514.2	1512.6	1511.0
160°	1543.4	1544.8	1545.0	1543.8	1542.7	1541.5	1540.2
162.5°	1568.5	1569.9	1569.7	1567.9	1566.0	1564.2	1562.3
165°	1600.5	1602.3	1602.2	1600.1	1598.1	1596.0	1594.0
167.5°	1626.4	1628.2	1628.2	1626.4	1624.6	1622.8	1620.9
170°	1640.7	1642.7	1642.7	1640.7	1638.7	1636.6	1634.6
172.5°	1651.5	1653.4	1653.3	1651.2	1649.1	1647.1	1645.1
175°	1663.4	1665.2	1665.0	1662.9	1660.9	1658.9	1656.9
177.5°	1668.4	1669.8	1669.7	1668.0	1666.4	1664.8	1663.1
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4

(END OF REPORT)