

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: P332466-840

Luminaire Tested: **S123RDIW-S1000D1535U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332466-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1000D1535U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10199.8 lumens
Efficiency: N/A
Efficacy: 133.2 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: Semi-Indirect

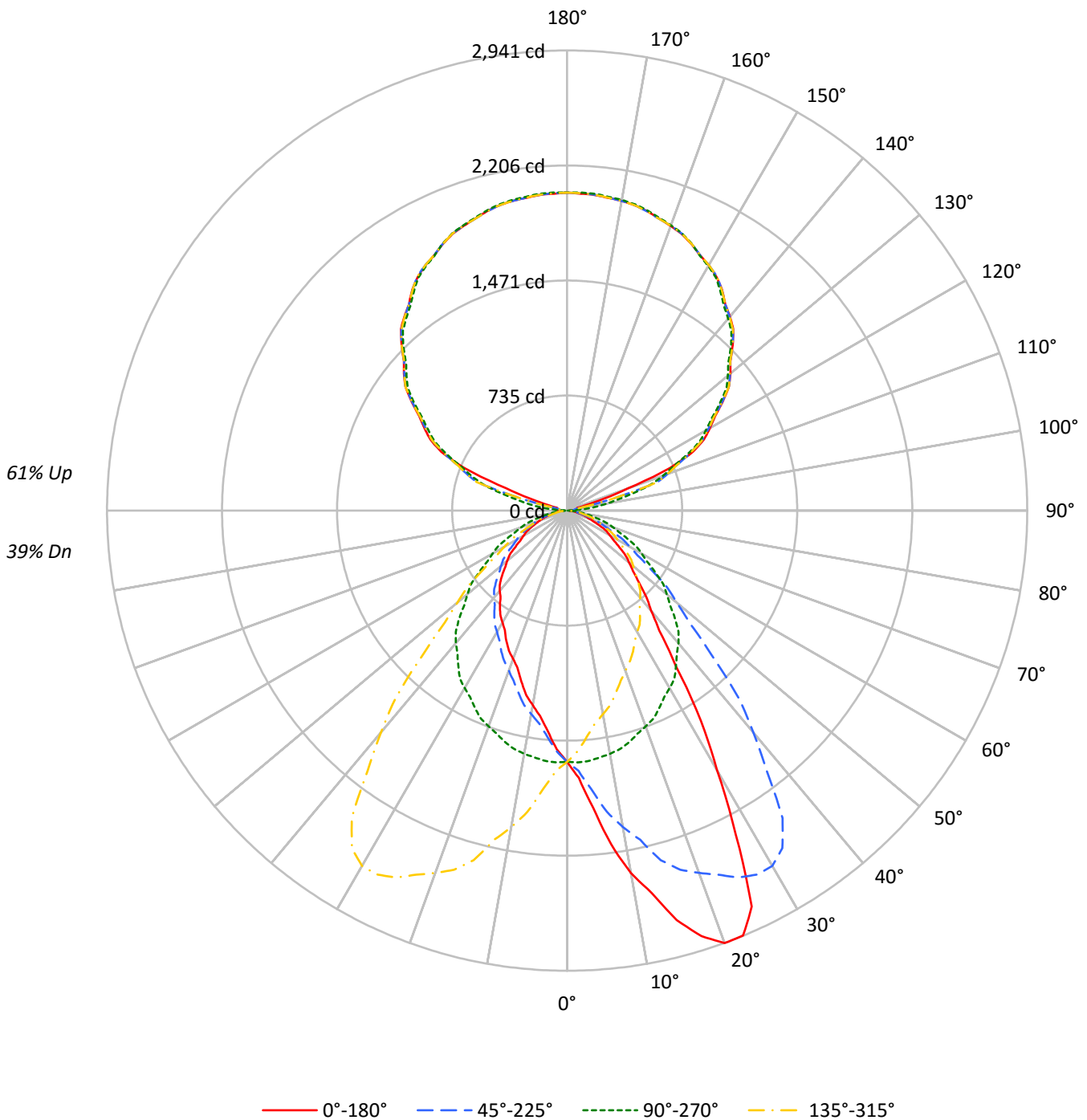
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



61% Up

39% Dn



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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	81	78	68	66	64	54	53	52	42	41	40	34
2	88	81	75	70	80	74	69	65	60	57	54	48	46	44	37	36	34	29
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	33	31	30	25
4	74	63	56	50	67	58	51	46	48	43	39	39	35	33	30	28	26	22
5	68	57	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20	17
7	58	46	38	33	52	42	36	31	35	30	26	29	25	22	23	20	18	15
8	54	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	19	17	15	13
10	47	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	14	12

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	1.5
10°-20°	493.2	4.8
20°-30°	774.9	7.6
30°-40°	808.4	7.9
40°-50°	691.8	6.8
50°-60°	527.3	5.2
60°-70°	338.0	3.3
70°-80°	162.6	1.6
80°-90°	48.7	0.5
90°-100°	73.9	0.7
100°-110°	352.1	3.5
110°-120°	845.8	8.3
120°-130°	1077.0	10.6
130°-140°	1150.8	11.3
140°-150°	1076.1	10.6
150°-160°	868.0	8.5
160°-170°	560.2	5.5
170°-180°	193.1	1.9
0°-30°	1426.0	14.0
0°-40°	2234.4	21.9
0°-60°	3453.6	33.9
0°-90°	4002.9	39.2
90°-120°	1271.8	12.5
90°-150°	4575.6	44.9
90°-180°	6197.0	60.8
0°-180°	10199.8	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°	45	2	45	2	45	21
95°	57	92	57	92	57	48
105°	66	450	66	450	66	152
115°	888	844	888	844	888	820
125°	1214	1190	1214	1190	1214	1084
135°	1496	1481	1496	1481	1496	1154
145°	1726	1709	1726	1709	1726	1077
155°	1880	1883	1880	1883	1880	867
165°	1981	1985	1981	1985	1981	559
175°	2025	2032	2025	2032	2025	193
180°	2032	2032	2032	2032	2032	



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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°	14.5	15.6	14.2	14.7	14.5	14.9	14.6	14.3	15.2	14.4	14.0
90°	45.2	44.6	43.9	43.3	42.6	41.6	40.3	38.9	37.6	36.3	31.9
92.5°	50.1	49.7	49.3	48.9	48.5	47.3	45.1	42.9	40.8	38.7	35.3
95°	57.4	57.4	57.4	57.4	57.4	56.1	53.8	51.5	49.2	46.8	43.1
97.5°	62.2	61.9	61.5	61.2	60.9	59.4	56.7	54.0	51.3	48.6	42.8
100°	63.4	63.1	62.7	62.4	62.1	60.6	57.9	55.1	52.5	49.8	42.2
102.5°	64.6	64.0	63.4	62.8	62.2	66.0	74.4	82.7	91.0	99.4	156.5
105°	66.4	65.7	65.1	64.4	63.7	93.1	152.5	211.9	271.2	330.6	360.8
107.5°	208.6	253.4	298.1	343.0	387.7	431.8	475.3	518.9	562.5	606.0	601.3
110°	415.2	463.1	511.1	559.1	607.0	636.6	647.6	658.7	669.8	680.9	677.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	712.3	722.5	732.6	742.7	752.9	757.8	757.6	757.4	757.2	757.0	753.3
115°	887.8	886.4	885.0	883.7	882.3	880.0	876.7	873.3	869.9	866.6	863.5
117.5°	986.1	985.9	985.6	985.3	985.1	983.6	980.9	978.3	975.5	972.9	971.3
120°	1053.8	1053.8	1053.8	1053.8	1053.8	1052.5	1049.8	1047.1	1044.4	1041.7	1040.7
122.5°	1120.2	1119.9	1119.6	1119.4	1119.1	1118.1	1116.2	1114.3	1112.5	1110.5	1109.2
125°	1213.9	1213.2	1212.4	1211.8	1211.1	1210.4	1209.8	1209.1	1208.5	1207.8	1206.5
127.5°	1303.8	1304.4	1305.1	1305.9	1306.5	1306.3	1305.3	1304.1	1303.0	1302.0	1300.4
130°	1361.8	1362.4	1363.1	1363.8	1364.4	1364.1	1362.8	1361.4	1360.1	1358.8	1357.5
132.5°	1414.9	1415.8	1416.8	1417.7	1418.7	1418.5	1417.1	1415.8	1414.4	1413.1	1412.0
135°	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2	1499.1	1498.1	1497.1	1496.1	1494.8
137.5°	1572.6	1573.2	1573.9	1574.6	1575.2	1574.8	1573.2	1571.6	1569.9	1568.3	1567.6
140°	1618.4	1619.1	1619.8	1620.4	1621.1	1620.7	1619.4	1618.1	1616.8	1615.4	1614.4
142.5°	1660.7	1661.6	1662.5	1663.6	1664.5	1664.4	1663.3	1662.2	1661.1	1660.1	1659.1
145°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.3	1724.6	1723.9	1723.2	1722.6	1721.9
147.5°	1773.9	1775.4	1777.1	1778.6	1780.1	1780.6	1779.9	1779.2	1778.6	1777.9	1777.2
150°	1810.2	1811.2	1812.2	1813.2	1814.2	1814.3	1813.7	1813.0	1812.3	1811.7	1811.0
152.5°	1839.2	1840.7	1842.2	1843.8	1845.3	1845.5	1844.3	1843.1	1841.9	1840.7	1840.3
155°	1879.7	1881.6	1883.6	1885.6	1887.6	1887.8	1886.1	1884.5	1882.8	1881.1	1880.8
157.5°	1913.7	1916.3	1918.9	1921.6	1924.2	1924.5	1922.5	1920.5	1918.4	1916.4	1916.8
160°	1935.5	1937.8	1940.2	1942.5	1944.9	1945.0	1943.0	1941.1	1939.0	1937.0	1937.3
162.5°	1956.0	1958.1	1960.1	1962.3	1964.3	1964.2	1962.0	1959.6	1957.4	1955.1	1955.4
165°	1980.7	1983.1	1985.5	1987.8	1990.1	1990.0	1987.3	1984.6	1982.0	1979.2	1979.6
167.5°	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3	2006.6	2004.0	2001.2	1998.6	1998.6
170°	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2	2017.5	2014.8	2012.2	2009.4	2009.4
172.5°	2015.5	2018.4	2021.4	2024.4	2027.3	2027.4	2024.8	2022.1	2019.4	2016.7	2016.4
175°	2024.6	2027.2	2029.9	2032.6	2035.3	2035.5	2033.1	2030.7	2028.4	2026.1	2025.7
177.5°	2027.3	2029.9	2032.7	2035.3	2038.0	2038.3	2036.1	2034.0	2031.8	2029.7	2029.4
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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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°	14.3	12.9	13.1	12.3	13.3	13.2	15.9	17.9	19.1	17.6	18.3
90°	27.5	23.1	18.8	14.9	11.6	8.2	4.8	1.5	4.8	8.2	11.6
92.5°	32.1	28.8	25.4	24.3	25.2	26.2	27.2	28.1	27.2	26.2	25.2
95°	39.4	35.7	32.0	37.1	50.8	64.6	78.4	92.1	78.4	64.6	50.8
97.5°	96.9	121.1	145.2	160.4	166.5	172.8	178.9	185.1	178.9	172.8	166.5
100°	154.5	206.8	259.1	282.0	275.3	268.5	261.9	255.2	261.9	268.5	275.3
102.5°	213.7	270.8	328.0	354.2	349.3	344.6	339.7	334.9	339.7	344.6	349.3
105°	391.0	421.2	451.4	464.6	461.0	457.3	453.6	449.9	453.6	457.3	461.0
107.5°	596.5	591.7	586.9	583.1	580.2	577.1	574.2	571.3	574.2	577.1	580.2
110°	673.5	669.8	666.1	663.0	660.2	657.5	654.9	652.2	654.9	657.5	660.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	749.6	745.9	742.3	739.1	736.8	734.4	732.0	729.5	732.0	734.4	736.8
115°	860.5	857.6	854.5	852.0	850.0	848.0	846.0	843.9	846.0	848.0	850.0
117.5°	969.8	968.3	966.7	964.7	962.2	959.7	957.3	954.7	957.3	959.7	962.2
120°	1039.7	1038.6	1037.7	1035.7	1032.7	1029.7	1026.6	1023.6	1026.6	1029.7	1032.7
122.5°	1108.0	1106.7	1105.5	1103.6	1101.1	1098.6	1096.1	1093.7	1096.1	1098.6	1101.1
125°	1205.1	1203.8	1202.4	1200.4	1197.7	1195.1	1192.3	1189.6	1192.3	1195.1	1197.7
127.5°	1298.8	1297.2	1295.6	1293.4	1290.7	1288.1	1285.4	1282.6	1285.4	1288.1	1290.7
130°	1356.0	1354.7	1353.4	1351.4	1348.7	1346.0	1343.3	1340.6	1343.3	1346.0	1348.7
132.5°	1411.0	1409.9	1408.9	1406.9	1404.2	1401.6	1398.9	1396.2	1398.9	1401.6	1404.2
135°	1493.5	1492.1	1490.8	1489.1	1487.1	1485.1	1483.1	1481.1	1483.1	1485.1	1487.1
137.5°	1566.8	1566.1	1565.4	1563.7	1561.2	1558.6	1556.1	1553.5	1556.1	1558.6	1561.2
140°	1613.4	1612.4	1611.3	1609.9	1607.9	1605.9	1603.9	1601.8	1603.9	1605.9	1607.9
142.5°	1658.1	1657.1	1656.1	1654.6	1652.5	1650.5	1648.5	1646.5	1648.5	1650.5	1652.5
145°	1721.2	1720.6	1719.9	1718.4	1716.1	1713.7	1711.3	1709.0	1711.3	1713.7	1716.1
147.5°	1776.6	1775.8	1775.1	1774.0	1772.5	1771.0	1769.5	1767.9	1769.5	1771.0	1772.5
150°	1810.4	1809.7	1809.0	1808.2	1807.2	1806.1	1805.1	1804.1	1805.1	1806.1	1807.2
152.5°	1839.9	1839.5	1839.1	1838.7	1838.2	1837.7	1837.2	1836.7	1837.2	1837.7	1838.2
155°	1880.5	1880.2	1879.8	1880.0	1880.7	1881.3	1882.0	1882.6	1882.0	1881.3	1880.7
157.5°	1917.1	1917.4	1917.8	1918.0	1918.0	1918.1	1918.2	1918.2	1918.2	1918.1	1918.0
160°	1937.6	1938.0	1938.3	1938.6	1939.0	1939.3	1939.6	1940.1	1939.6	1939.3	1939.0
162.5°	1955.8	1956.1	1956.4	1957.0	1957.9	1958.8	1959.6	1960.6	1959.6	1958.8	1957.9
165°	1979.9	1980.2	1980.6	1981.3	1982.3	1983.3	1984.3	1985.3	1984.3	1983.3	1982.3
167.5°	1998.6	1998.6	1998.6	1999.2	2000.6	2002.0	2003.3	2004.6	2003.3	2002.0	2000.6
170°	2009.4	2009.4	2009.4	2010.1	2011.4	2012.8	2014.2	2015.5	2014.2	2012.8	2011.4
172.5°	2016.2	2015.9	2015.6	2016.3	2017.9	2019.5	2021.1	2022.8	2021.1	2019.5	2017.9
175°	2025.4	2025.1	2024.7	2025.4	2027.1	2028.7	2030.4	2032.1	2030.4	2028.7	2027.1
177.5°	2029.1	2028.9	2028.6	2029.1	2030.5	2031.8	2033.2	2034.5	2033.2	2031.8	2030.5
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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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°	18.4	20.8	22.2	23.6	25.0	25.3	26.3	26.5	27.3	27.6	27.8
90°	14.9	18.8	23.1	27.5	31.9	36.3	37.6	38.9	40.3	41.6	42.6
92.5°	24.3	25.4	28.8	32.1	35.3	38.7	40.8	42.9	45.1	47.3	48.5
95°	37.1	32.0	35.7	39.4	43.1	46.8	49.2	51.5	53.8	56.1	57.4
97.5°	160.4	145.2	121.1	96.9	72.8	48.6	51.3	54.0	56.7	59.4	60.9
100°	282.0	259.1	206.8	154.5	102.2	49.8	52.5	55.1	57.9	60.6	62.1
102.5°	354.2	328.0	270.8	213.7	156.5	99.4	91.0	82.7	74.4	66.0	62.2
105°	464.6	451.4	421.2	391.0	360.8	330.6	271.2	211.9	152.5	93.1	63.7
107.5°	583.1	586.9	591.7	596.5	601.3	606.0	562.5	518.9	475.3	431.8	387.7
110°	663.0	666.1	669.8	673.5	677.2	680.9	669.8	658.7	647.6	636.6	607.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	739.1	742.3	745.9	749.6	753.3	757.0	757.2	757.4	757.6	757.8	752.9
115°	852.0	854.5	857.6	860.5	863.5	866.6	869.9	873.3	876.7	880.0	882.3
117.5°	964.7	966.7	968.3	969.8	971.3	972.9	975.5	978.3	980.9	983.6	985.1
120°	1035.7	1037.7	1038.6	1039.7	1040.7	1041.7	1044.4	1047.1	1049.8	1052.5	1053.8
122.5°	1103.6	1105.5	1106.7	1108.0	1109.2	1110.5	1112.5	1114.3	1116.2	1118.1	1119.1
125°	1200.4	1202.4	1203.8	1205.1	1206.5	1207.8	1208.5	1209.1	1209.8	1210.4	1211.1
127.5°	1293.4	1295.6	1297.2	1298.8	1300.4	1302.0	1303.0	1304.1	1305.3	1306.3	1306.5
130°	1351.4	1353.4	1354.7	1356.0	1357.5	1358.8	1360.1	1361.4	1362.8	1364.1	1364.4
132.5°	1406.9	1408.9	1409.9	1411.0	1412.0	1413.1	1414.4	1415.8	1417.1	1418.5	1418.7
135°	1489.1	1490.8	1492.1	1493.5	1494.8	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2
137.5°	1563.7	1565.4	1566.1	1566.8	1567.6	1568.3	1569.9	1571.6	1573.2	1574.8	1575.2
140°	1609.9	1611.3	1612.4	1613.4	1614.4	1615.4	1616.8	1618.1	1619.4	1620.7	1621.1
142.5°	1654.6	1656.1	1657.1	1658.1	1659.1	1660.1	1661.1	1662.2	1663.3	1664.4	1664.5
145°	1718.4	1719.9	1720.6	1721.2	1721.9	1722.6	1723.2	1723.9	1724.6	1725.3	1725.7
147.5°	1774.0	1775.1	1775.8	1776.6	1777.2	1777.9	1778.6	1779.2	1779.9	1780.6	1780.1
150°	1808.2	1809.0	1809.7	1810.4	1811.0	1811.7	1812.3	1813.0	1813.7	1814.3	1814.2
152.5°	1838.7	1839.1	1839.5	1839.9	1840.3	1840.7	1841.9	1843.1	1844.3	1845.5	1845.3
155°	1880.0	1879.8	1880.2	1880.5	1880.8	1881.1	1882.8	1884.5	1886.1	1887.8	1887.6
157.5°	1918.0	1917.8	1917.4	1917.1	1916.8	1916.4	1918.4	1920.5	1922.5	1924.5	1924.2
160°	1938.6	1938.3	1938.0	1937.6	1937.3	1937.0	1939.0	1941.1	1943.0	1945.0	1944.9
162.5°	1957.0	1956.4	1956.1	1955.8	1955.4	1955.1	1957.4	1959.6	1962.0	1964.2	1964.3
165°	1981.3	1980.6	1980.2	1979.9	1979.6	1979.2	1982.0	1984.6	1987.3	1990.0	1990.1
167.5°	1999.2	1998.6	1998.6	1998.6	1998.6	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3
170°	2010.1	2009.4	2009.4	2009.4	2009.4	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2
172.5°	2016.3	2015.6	2015.9	2016.2	2016.4	2016.7	2019.4	2022.1	2024.8	2027.4	2027.3
175°	2025.4	2024.7	2025.1	2025.4	2025.7	2026.1	2028.4	2030.7	2033.1	2035.5	2035.3
177.5°	2029.1	2028.6	2028.9	2029.1	2029.4	2029.7	2031.8	2034.0	2036.1	2038.3	2038.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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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°	29.0	28.1	28.2	28.9	28.2	28.1	29.0	27.8	27.6	27.3	26.5
90°	43.3	43.9	44.6	45.2	44.6	43.9	43.3	42.6	41.6	40.3	38.9
92.5°	48.9	49.3	49.7	50.1	49.7	49.3	48.9	48.5	47.3	45.1	42.9
95°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	56.1	53.8	51.5
97.5°	61.2	61.5	61.9	62.2	61.9	61.5	61.2	60.9	59.4	56.7	54.0
100°	62.4	62.7	63.1	63.4	63.1	62.7	62.4	62.1	60.6	57.9	55.1
102.5°	62.8	63.4	64.0	64.6	64.0	63.4	62.8	62.2	66.0	74.4	82.7
105°	64.4	65.1	65.7	66.4	65.7	65.1	64.4	63.7	93.1	152.5	211.9
107.5°	343.0	298.1	253.4	208.6	253.4	298.1	343.0	387.7	431.8	475.3	518.9
110°	559.1	511.1	463.1	415.2	463.1	511.1	559.1	607.0	636.6	647.6	658.7



TEST NUMBER: P332466-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	742.7	732.6	722.5	712.3	722.5	732.6	742.7	752.9	757.8	757.6	757.4
115°	883.7	885.0	886.4	887.8	886.4	885.0	883.7	882.3	880.0	876.7	873.3
117.5°	985.3	985.6	985.9	986.1	985.9	985.6	985.3	985.1	983.6	980.9	978.3
120°	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1052.5	1049.8	1047.1
122.5°	1119.4	1119.6	1119.9	1120.2	1119.9	1119.6	1119.4	1119.1	1118.1	1116.2	1114.3
125°	1211.8	1212.4	1213.2	1213.9	1213.2	1212.4	1211.8	1211.1	1210.4	1209.8	1209.1
127.5°	1305.9	1305.1	1304.4	1303.8	1304.4	1305.1	1305.9	1306.5	1306.3	1305.3	1304.1
130°	1363.8	1363.1	1362.4	1361.8	1362.4	1363.1	1363.8	1364.4	1364.1	1362.8	1361.4
132.5°	1417.7	1416.8	1415.8	1414.9	1415.8	1416.8	1417.7	1418.7	1418.5	1417.1	1415.8
135°	1499.1	1498.1	1497.1	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2	1499.1	1498.1
137.5°	1574.6	1573.9	1573.2	1572.6	1573.2	1573.9	1574.6	1575.2	1574.8	1573.2	1571.6
140°	1620.4	1619.8	1619.1	1618.4	1619.1	1619.8	1620.4	1621.1	1620.7	1619.4	1618.1
142.5°	1663.6	1662.5	1661.6	1660.7	1661.6	1662.5	1663.6	1664.5	1664.4	1663.3	1662.2
145°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.3	1724.6	1723.9
147.5°	1778.6	1777.1	1775.4	1773.9	1775.4	1777.1	1778.6	1780.1	1780.6	1779.9	1779.2
150°	1813.2	1812.2	1811.2	1810.2	1811.2	1812.2	1813.2	1814.2	1814.3	1813.7	1813.0
152.5°	1843.8	1842.2	1840.7	1839.2	1840.7	1842.2	1843.8	1845.3	1845.5	1844.3	1843.1
155°	1885.6	1883.6	1881.6	1879.7	1881.6	1883.6	1885.6	1887.6	1887.8	1886.1	1884.5
157.5°	1921.6	1918.9	1916.3	1913.7	1916.3	1918.9	1921.6	1924.2	1924.5	1922.5	1920.5
160°	1942.5	1940.2	1937.8	1935.5	1937.8	1940.2	1942.5	1944.9	1945.0	1943.0	1941.1
162.5°	1962.3	1960.1	1958.1	1956.0	1958.1	1960.1	1962.3	1964.3	1964.2	1962.0	1959.6
165°	1987.8	1985.5	1983.1	1980.7	1983.1	1985.5	1987.8	1990.1	1990.0	1987.3	1984.6
167.5°	2006.6	2004.0	2001.2	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3	2006.6	2004.0
170°	2017.5	2014.8	2012.2	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2	2017.5	2014.8
172.5°	2024.4	2021.4	2018.4	2015.5	2018.4	2021.4	2024.4	2027.3	2027.4	2024.8	2022.1
175°	2032.6	2029.9	2027.2	2024.6	2027.2	2029.9	2032.6	2035.3	2035.5	2033.1	2030.7
177.5°	2035.3	2032.7	2029.9	2027.3	2029.9	2032.7	2035.3	2038.0	2038.3	2036.1	2034.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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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°	26.3	25.3	25.0	23.6	22.2	20.8	18.4	18.3	17.6	19.1	17.9
90°	37.6	36.3	31.9	27.5	23.1	18.8	14.9	11.6	8.2	4.8	1.5
92.5°	40.8	38.7	35.3	32.1	28.8	25.4	24.3	25.2	26.2	27.2	28.1
95°	49.2	46.8	43.1	39.4	35.7	32.0	37.1	50.8	64.6	78.4	92.1
97.5°	51.3	48.6	72.8	96.9	121.1	145.2	160.4	166.5	172.8	178.9	185.1
100°	52.5	49.8	102.2	154.5	206.8	259.1	282.0	275.3	268.5	261.9	255.2
102.5°	91.0	99.4	156.5	213.7	270.8	328.0	354.2	349.3	344.6	339.7	334.9
105°	271.2	330.6	360.8	391.0	421.2	451.4	464.6	461.0	457.3	453.6	449.9
107.5°	562.5	606.0	601.3	596.5	591.7	586.9	583.1	580.2	577.1	574.2	571.3
110°	669.8	680.9	677.2	673.5	669.8	666.1	663.0	660.2	657.5	654.9	652.2



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CATALOG NUMBER: S123RDIW-S1000D1535U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	757.2	757.0	753.3	749.6	745.9	742.3	739.1	736.8	734.4	732.0	729.5
115°	869.9	866.6	863.5	860.5	857.6	854.5	852.0	850.0	848.0	846.0	843.9
117.5°	975.5	972.9	971.3	969.8	968.3	966.7	964.7	962.2	959.7	957.3	954.7
120°	1044.4	1041.7	1040.7	1039.7	1038.6	1037.7	1035.7	1032.7	1029.7	1026.6	1023.6
122.5°	1112.5	1110.5	1109.2	1108.0	1106.7	1105.5	1103.6	1101.1	1098.6	1096.1	1093.7
125°	1208.5	1207.8	1206.5	1205.1	1203.8	1202.4	1200.4	1197.7	1195.1	1192.3	1189.6
127.5°	1303.0	1302.0	1300.4	1298.8	1297.2	1295.6	1293.4	1290.7	1288.1	1285.4	1282.6
130°	1360.1	1358.8	1357.5	1356.0	1354.7	1353.4	1351.4	1348.7	1346.0	1343.3	1340.6
132.5°	1414.4	1413.1	1412.0	1411.0	1409.9	1408.9	1406.9	1404.2	1401.6	1398.9	1396.2
135°	1497.1	1496.1	1494.8	1493.5	1492.1	1490.8	1489.1	1487.1	1485.1	1483.1	1481.1
137.5°	1569.9	1568.3	1567.6	1566.8	1566.1	1565.4	1563.7	1561.2	1558.6	1556.1	1553.5
140°	1616.8	1615.4	1614.4	1613.4	1612.4	1611.3	1609.9	1607.9	1605.9	1603.9	1601.8
142.5°	1661.1	1660.1	1659.1	1658.1	1657.1	1656.1	1654.6	1652.5	1650.5	1648.5	1646.5
145°	1723.2	1722.6	1721.9	1721.2	1720.6	1719.9	1718.4	1716.1	1713.7	1711.3	1709.0
147.5°	1778.6	1777.9	1777.2	1776.6	1775.8	1775.1	1774.0	1772.5	1771.0	1769.5	1767.9
150°	1812.3	1811.7	1811.0	1810.4	1809.7	1809.0	1808.2	1807.2	1806.1	1805.1	1804.1
152.5°	1841.9	1840.7	1840.3	1839.9	1839.5	1839.1	1838.7	1838.2	1837.7	1837.2	1836.7
155°	1882.8	1881.1	1880.8	1880.5	1880.2	1879.8	1880.0	1880.7	1881.3	1882.0	1882.6
157.5°	1918.4	1916.4	1916.8	1917.1	1917.4	1917.8	1918.0	1918.0	1918.1	1918.2	1918.2
160°	1939.0	1937.0	1937.3	1937.6	1938.0	1938.3	1938.6	1939.0	1939.3	1939.6	1940.1
162.5°	1957.4	1955.1	1955.4	1955.8	1956.1	1956.4	1957.0	1957.9	1958.8	1959.6	1960.6
165°	1982.0	1979.2	1979.6	1979.9	1980.2	1980.6	1981.3	1982.3	1983.3	1984.3	1985.3
167.5°	2001.2	1998.6	1998.6	1998.6	1998.6	1998.6	1999.2	2000.6	2002.0	2003.3	2004.6
170°	2012.2	2009.4	2009.4	2009.4	2009.4	2009.4	2010.1	2011.4	2012.8	2014.2	2015.5
172.5°	2019.4	2016.7	2016.4	2016.2	2015.9	2015.6	2016.3	2017.9	2019.5	2021.1	2022.8
175°	2028.4	2026.1	2025.7	2025.4	2025.1	2024.7	2025.4	2027.1	2028.7	2030.4	2032.1
177.5°	2031.8	2029.7	2029.4	2029.1	2028.9	2028.6	2029.1	2030.5	2031.8	2033.2	2034.5
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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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°	15.9	13.2	13.3	12.3	13.1	12.9	14.3	14.0	14.4	15.2	14.3
90°	4.8	8.2	11.6	14.9	18.8	23.1	27.5	31.9	36.3	37.6	38.9
92.5°	27.2	26.2	25.2	24.3	25.4	28.8	32.1	35.3	38.7	40.8	42.9
95°	78.4	64.6	50.8	37.1	32.0	35.7	39.4	43.1	46.8	49.2	51.5
97.5°	178.9	172.8	166.5	160.4	145.2	121.1	96.9	72.8	48.6	51.3	54.0
100°	261.9	268.5	275.3	282.0	259.1	206.8	154.5	102.2	49.8	52.5	55.1
102.5°	339.7	344.6	349.3	354.2	328.0	270.8	213.7	156.5	99.4	91.0	82.7
105°	453.6	457.3	461.0	464.6	451.4	421.2	391.0	360.8	330.6	271.2	211.9
107.5°	574.2	577.1	580.2	583.1	586.9	591.7	596.5	601.3	606.0	562.5	518.9
110°	654.9	657.5	660.2	663.0	666.1	669.8	673.5	677.2	680.9	669.8	658.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	732.0	734.4	736.8	739.1	742.3	745.9	749.6	753.3	757.0	757.2	757.4
115°	846.0	848.0	850.0	852.0	854.5	857.6	860.5	863.5	866.6	869.9	873.3
117.5°	957.3	959.7	962.2	964.7	966.7	968.3	969.8	971.3	972.9	975.5	978.3
120°	1026.6	1029.7	1032.7	1035.7	1037.7	1038.6	1039.7	1040.7	1041.7	1044.4	1047.1
122.5°	1096.1	1098.6	1101.1	1103.6	1105.5	1106.7	1108.0	1109.2	1110.5	1112.5	1114.3
125°	1192.3	1195.1	1197.7	1200.4	1202.4	1203.8	1205.1	1206.5	1207.8	1208.5	1209.1
127.5°	1285.4	1288.1	1290.7	1293.4	1295.6	1297.2	1298.8	1300.4	1302.0	1303.0	1304.1
130°	1343.3	1346.0	1348.7	1351.4	1353.4	1354.7	1356.0	1357.5	1358.8	1360.1	1361.4
132.5°	1398.9	1401.6	1404.2	1406.9	1408.9	1409.9	1411.0	1412.0	1413.1	1414.4	1415.8
135°	1483.1	1485.1	1487.1	1489.1	1490.8	1492.1	1493.5	1494.8	1496.1	1497.1	1498.1
137.5°	1556.1	1558.6	1561.2	1563.7	1565.4	1566.1	1566.8	1567.6	1568.3	1569.9	1571.6
140°	1603.9	1605.9	1607.9	1609.9	1611.3	1612.4	1613.4	1614.4	1615.4	1616.8	1618.1
142.5°	1648.5	1650.5	1652.5	1654.6	1656.1	1657.1	1658.1	1659.1	1660.1	1661.1	1662.2
145°	1711.3	1713.7	1716.1	1718.4	1719.9	1720.6	1721.2	1721.9	1722.6	1723.2	1723.9
147.5°	1769.5	1771.0	1772.5	1774.0	1775.1	1775.8	1776.6	1777.2	1777.9	1778.6	1779.2
150°	1805.1	1806.1	1807.2	1808.2	1809.0	1809.7	1810.4	1811.0	1811.7	1812.3	1813.0
152.5°	1837.2	1837.7	1838.2	1838.7	1839.1	1839.5	1839.9	1840.3	1840.7	1841.9	1843.1
155°	1882.0	1881.3	1880.7	1880.0	1879.8	1880.2	1880.5	1880.8	1881.1	1882.8	1884.5
157.5°	1918.2	1918.1	1918.0	1918.0	1917.8	1917.4	1917.1	1916.8	1916.4	1918.4	1920.5
160°	1939.6	1939.3	1939.0	1938.6	1938.3	1938.0	1937.6	1937.3	1937.0	1939.0	1941.1
162.5°	1959.6	1958.8	1957.9	1957.0	1956.4	1956.1	1955.8	1955.4	1955.1	1957.4	1959.6
165°	1984.3	1983.3	1982.3	1981.3	1980.6	1980.2	1979.9	1979.6	1979.2	1982.0	1984.6
167.5°	2003.3	2002.0	2000.6	1999.2	1998.6	1998.6	1998.6	1998.6	1998.6	2001.2	2004.0
170°	2014.2	2012.8	2011.4	2010.1	2009.4	2009.4	2009.4	2009.4	2009.4	2012.2	2014.8
172.5°	2021.1	2019.5	2017.9	2016.3	2015.6	2015.9	2016.2	2016.4	2016.7	2019.4	2022.1
175°	2030.4	2028.7	2027.1	2025.4	2024.7	2025.1	2025.4	2025.7	2026.1	2028.4	2030.7
177.5°	2033.2	2031.8	2030.5	2029.1	2028.6	2028.9	2029.1	2029.4	2029.7	2031.8	2034.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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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°	14.6	14.9	14.5	14.7	14.2	15.6	14.5
90°	40.3	41.6	42.6	43.3	43.9	44.6	45.2
92.5°	45.1	47.3	48.5	48.9	49.3	49.7	50.1
95°	53.8	56.1	57.4	57.4	57.4	57.4	57.4
97.5°	56.7	59.4	60.9	61.2	61.5	61.9	62.2
100°	57.9	60.6	62.1	62.4	62.7	63.1	63.4
102.5°	74.4	66.0	62.2	62.8	63.4	64.0	64.6
105°	152.5	93.1	63.7	64.4	65.1	65.7	66.4
107.5°	475.3	431.8	387.7	343.0	298.1	253.4	208.6
110°	647.6	636.6	607.0	559.1	511.1	463.1	415.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	757.6	757.8	752.9	742.7	732.6	722.5	712.3
115°	876.7	880.0	882.3	883.7	885.0	886.4	887.8
117.5°	980.9	983.6	985.1	985.3	985.6	985.9	986.1
120°	1049.8	1052.5	1053.8	1053.8	1053.8	1053.8	1053.8
122.5°	1116.2	1118.1	1119.1	1119.4	1119.6	1119.9	1120.2
125°	1209.8	1210.4	1211.1	1211.8	1212.4	1213.2	1213.9
127.5°	1305.3	1306.3	1306.5	1305.9	1305.1	1304.4	1303.8
130°	1362.8	1364.1	1364.4	1363.8	1363.1	1362.4	1361.8
132.5°	1417.1	1418.5	1418.7	1417.7	1416.8	1415.8	1414.9
135°	1499.1	1500.2	1500.2	1499.1	1498.1	1497.1	1496.1
137.5°	1573.2	1574.8	1575.2	1574.6	1573.9	1573.2	1572.6
140°	1619.4	1620.7	1621.1	1620.4	1619.8	1619.1	1618.4
142.5°	1663.3	1664.4	1664.5	1663.6	1662.5	1661.6	1660.7
145°	1724.6	1725.3	1725.7	1725.7	1725.7	1725.7	1725.7
147.5°	1779.9	1780.6	1780.1	1778.6	1777.1	1775.4	1773.9
150°	1813.7	1814.3	1814.2	1813.2	1812.2	1811.2	1810.2
152.5°	1844.3	1845.5	1845.3	1843.8	1842.2	1840.7	1839.2
155°	1886.1	1887.8	1887.6	1885.6	1883.6	1881.6	1879.7
157.5°	1922.5	1924.5	1924.2	1921.6	1918.9	1916.3	1913.7
160°	1943.0	1945.0	1944.9	1942.5	1940.2	1937.8	1935.5
162.5°	1962.0	1964.2	1964.3	1962.3	1960.1	1958.1	1956.0
165°	1987.3	1990.0	1990.1	1987.8	1985.5	1983.1	1980.7
167.5°	2006.6	2009.3	2009.3	2006.6	2004.0	2001.2	1998.6
170°	2017.5	2020.2	2020.2	2017.5	2014.8	2012.2	2009.4
172.5°	2024.8	2027.4	2027.3	2024.4	2021.4	2018.4	2015.5
175°	2033.1	2035.5	2035.3	2032.6	2029.9	2027.2	2024.6
177.5°	2036.1	2038.3	2038.0	2035.3	2032.7	2029.9	2027.3
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1

(END OF REPORT)