

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: P332205-840

Luminaire Tested: **S123DIW-S1000D1535U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332205-840
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: S123DIW-S1000D1535U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9657.8 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

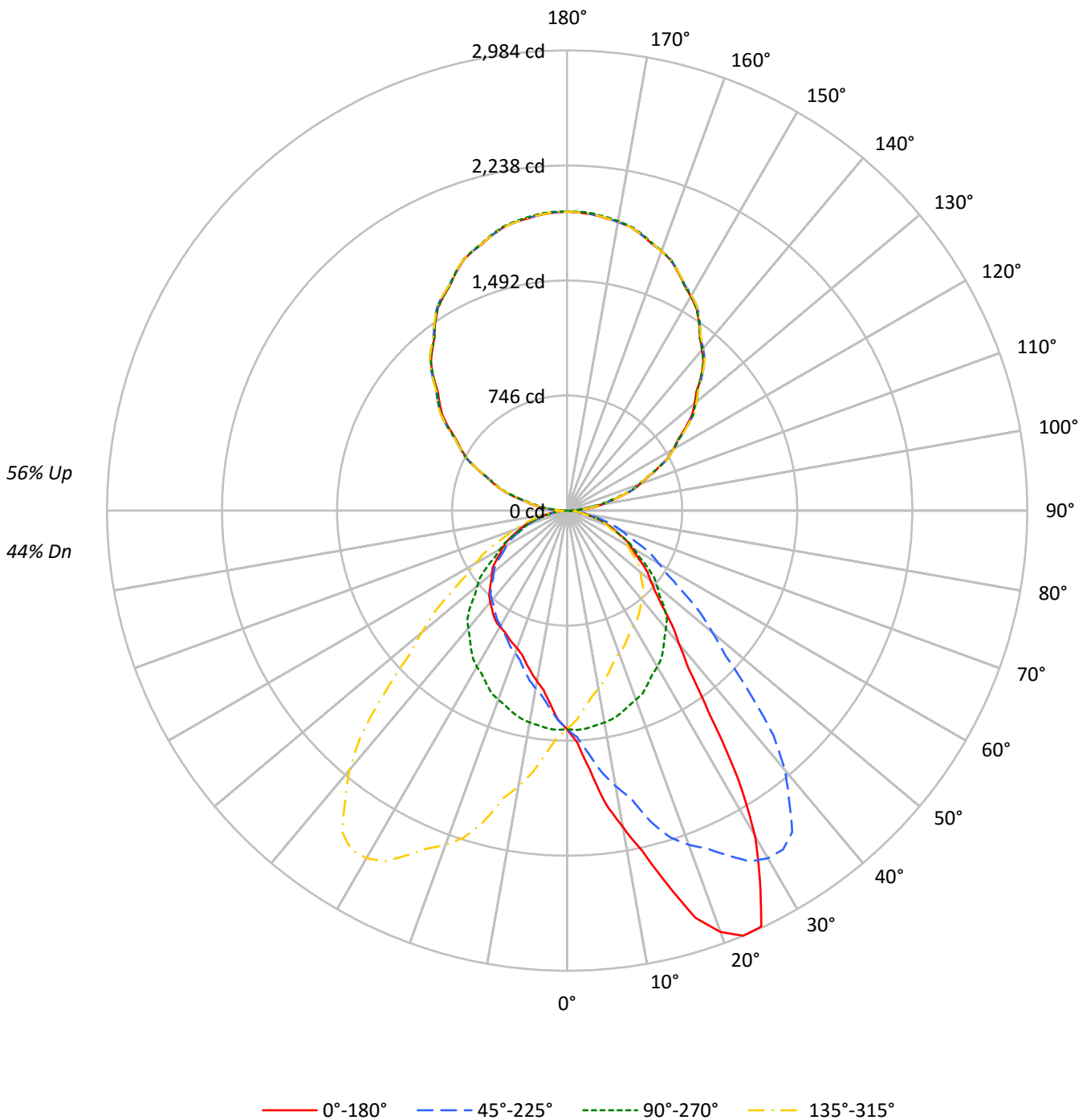
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	71	68	66	58	56	55	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.4
10°-20°	448.0	4.6
20°-30°	751.9	7.8
30°-40°	851.4	8.8
40°-50°	763.5	7.9
50°-60°	616.1	6.4
60°-70°	429.4	4.4
70°-80°	225.7	2.3
80°-90°	60.9	0.6
90°-100°	126.3	1.3
100°-110°	378.0	3.9
110°-120°	642.9	6.7
120°-130°	845.6	8.8
130°-140°	950.5	9.8
140°-150°	934.3	9.7
150°-160°	786.5	8.1
160°-170°	523.6	5.4
170°-180°	183.3	1.9
0°-30°	1339.7	13.9
0°-40°	2191.1	22.7
0°-60°	3570.7	37.0
0°-90°	4286.7	44.4
90°-120°	1147.2	11.9
90°-150°	3877.6	40.2
90°-180°	5371.0	55.6
0°-180°	9657.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	55
90°	46	2	46	2	46	24
95°	119	90	119	90	119	122
105°	362	343	362	343	362	385
115°	649	647	649	647	649	642
125°	936	947	936	947	936	837
135°	1227	1229	1227	1229	1227	944
145°	1491	1491	1491	1491	1491	931
155°	1704	1707	1704	1707	1704	785
165°	1853	1859	1853	1859	1853	523
175°	1926	1934	1926	1934	1926	183
180°	1938	1938	1938	1938	1938	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	25.7	24.4	24.8	25.2	24.5	24.8	25.1	25.4	25.8	26.0	25.7
90°	45.6	45.0	44.3	43.6	43.0	42.0	40.6	39.3	37.9	36.6	32.1
92.5°	61.5	61.9	62.3	62.7	63.1	62.8	61.7	60.6	59.6	58.5	55.9
95°	118.8	118.8	118.8	118.8	118.8	118.1	116.7	115.4	114.0	112.7	110.0
97.5°	182.8	182.9	183.0	183.2	183.3	182.6	181.0	179.5	177.9	176.3	174.4
100°	231.5	230.8	230.1	229.4	228.7	227.9	226.9	225.9	224.9	223.9	222.2
102.5°	281.4	281.6	281.7	281.9	282.0	281.6	280.5	279.5	278.5	277.4	275.2
105°	362.4	361.7	361.1	360.4	359.7	359.4	359.4	359.4	359.4	359.4	356.4
107.5°	446.8	447.2	447.6	448.0	448.4	448.1	447.0	446.0	444.8	443.7	442.5
110°	504.0	504.7	505.4	506.0	506.8	506.4	505.0	503.7	502.4	501.0	500.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	564.9	565.1	565.2	565.4	565.5	564.7	563.1	561.5	559.9	558.3	558.2
115°	648.7	649.0	649.4	649.7	650.1	650.1	649.7	649.4	649.0	648.7	649.4
117.5°	733.7	734.7	735.6	736.5	737.5	738.0	738.1	738.1	738.2	738.3	739.1
120°	793.3	794.1	794.8	795.5	796.1	796.6	797.0	797.3	797.6	798.0	799.6
122.5°	850.6	851.6	852.5	853.5	854.4	855.4	856.3	857.1	858.0	858.9	859.8
125°	936.5	937.9	939.3	940.6	941.9	943.3	944.6	946.0	947.4	948.8	949.4
127.5°	1022.1	1023.7	1025.2	1026.8	1028.3	1030.1	1032.0	1033.9	1035.7	1037.6	1038.4
130°	1078.1	1080.6	1082.9	1085.3	1087.6	1089.5	1090.9	1092.2	1093.6	1094.9	1095.9
132.5°	1136.6	1138.4	1140.3	1142.2	1144.0	1145.7	1147.3	1148.9	1150.5	1152.2	1152.9
135°	1227.4	1228.1	1228.7	1229.4	1230.1	1231.1	1232.4	1233.9	1235.2	1236.6	1236.9
137.5°	1307.5	1308.8	1310.1	1311.3	1312.6	1314.0	1315.5	1316.9	1318.3	1319.7	1318.8
140°	1359.9	1362.2	1364.6	1367.0	1369.4	1370.7	1371.1	1371.4	1371.7	1372.1	1371.7
142.5°	1413.5	1415.3	1417.1	1419.0	1420.8	1421.9	1422.2	1422.6	1422.9	1423.2	1422.6
145°	1490.9	1492.2	1493.6	1494.9	1496.2	1497.1	1497.4	1497.7	1498.1	1498.4	1497.4
147.5°	1559.6	1561.7	1563.8	1565.8	1567.8	1568.8	1568.8	1568.8	1568.8	1568.8	1567.8
150°	1603.6	1605.6	1607.6	1609.6	1611.6	1612.7	1612.7	1612.7	1612.7	1612.7	1611.9
152.5°	1646.2	1647.9	1649.7	1651.4	1653.3	1653.9	1653.3	1652.7	1652.2	1651.6	1651.2
155°	1704.0	1706.4	1708.8	1711.1	1713.5	1714.0	1712.6	1711.3	1710.0	1708.6	1708.3
157.5°	1756.8	1758.6	1760.5	1762.4	1764.3	1764.5	1763.1	1761.7	1760.3	1758.9	1758.6
160°	1790.8	1792.2	1793.5	1794.9	1796.2	1796.0	1794.4	1792.7	1791.0	1789.3	1789.3
162.5°	1816.4	1818.6	1820.8	1822.9	1825.1	1825.3	1823.6	1821.9	1820.3	1818.6	1818.3
165°	1853.3	1855.6	1858.1	1860.4	1862.8	1862.9	1860.9	1858.9	1856.8	1854.8	1854.8
167.5°	1884.6	1886.7	1888.9	1891.0	1893.0	1893.0	1891.0	1888.9	1886.7	1884.6	1884.4
170°	1900.5	1902.9	1905.2	1907.6	1910.0	1910.0	1907.6	1905.2	1902.9	1900.5	1900.5
172.5°	1912.7	1915.0	1917.4	1919.8	1922.2	1922.3	1920.2	1918.0	1916.0	1913.9	1913.9
175°	1926.4	1928.7	1931.1	1933.5	1935.8	1936.0	1934.0	1932.0	1930.0	1927.9	1927.9
177.5°	1933.7	1935.6	1937.4	1939.3	1941.3	1941.4	1939.7	1938.1	1936.5	1934.9	1934.9
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	25.9	25.5	23.0	20.1	18.3	16.0	15.2	13.5	13.0	13.7	13.8
90°	27.8	23.3	19.0	15.0	11.7	8.3	4.9	1.5	4.9	8.3	11.7
92.5°	53.4	51.0	48.5	46.0	43.7	41.4	39.2	36.9	39.2	41.4	43.7
95°	107.2	104.5	101.9	99.4	96.9	94.6	92.2	89.9	92.2	94.6	96.9
97.5°	172.4	170.5	168.4	166.6	164.9	163.1	161.4	159.6	161.4	163.1	164.9
100°	220.5	218.7	217.1	215.2	213.2	211.2	209.1	207.1	209.1	211.2	213.2
102.5°	273.0	270.7	268.5	266.8	265.6	264.4	263.2	262.0	263.2	264.4	265.6
105°	353.3	350.2	347.2	345.4	344.7	344.0	343.4	342.6	343.4	344.0	344.7
107.5°	441.3	440.1	438.9	438.1	437.7	437.3	436.9	436.5	436.9	437.3	437.7
110°	499.7	499.0	498.3	497.7	497.0	496.2	495.6	494.9	495.6	496.2	497.0



TEST NUMBER: P332205-840

CATALOG NUMBER: S123DIW-S1000D1535U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	558.0	557.8	557.7	557.4	557.0	556.6	556.2	555.8	556.2	556.6	557.0
115°	650.1	650.8	651.5	651.3	650.3	649.2	648.2	647.2	648.2	649.2	650.3
117.5°	740.0	740.9	741.7	741.8	741.2	740.5	739.8	739.2	739.8	740.5	741.2
120°	801.3	803.0	804.8	804.6	802.5	800.5	798.5	796.5	798.5	800.5	802.5
122.5°	860.6	861.5	862.4	862.1	860.6	859.1	857.6	856.2	857.6	859.1	860.6
125°	950.1	950.8	951.4	951.3	950.3	949.3	948.2	947.2	948.2	949.3	950.3
127.5°	1039.2	1039.9	1040.7	1040.0	1037.7	1035.6	1033.4	1031.3	1033.4	1035.6	1037.7
130°	1096.9	1097.9	1098.9	1098.1	1095.4	1092.7	1090.0	1087.3	1090.0	1092.7	1095.4
132.5°	1153.7	1154.4	1155.2	1154.2	1151.4	1148.7	1146.0	1143.4	1146.0	1148.7	1151.4
135°	1237.2	1237.6	1237.9	1237.1	1235.0	1232.9	1230.9	1228.9	1230.9	1232.9	1235.0
137.5°	1317.9	1317.1	1316.2	1314.8	1313.2	1311.5	1309.8	1308.1	1309.8	1311.5	1313.2
140°	1371.4	1371.1	1370.7	1369.7	1368.0	1366.3	1364.6	1362.9	1364.6	1366.3	1368.0
142.5°	1422.0	1421.4	1420.8	1419.7	1418.0	1416.2	1414.5	1412.9	1414.5	1416.2	1418.0
145°	1496.4	1495.4	1494.4	1493.6	1492.9	1492.2	1491.6	1490.9	1491.6	1492.2	1492.9
147.5°	1566.9	1566.0	1565.0	1564.0	1562.8	1561.5	1560.2	1559.0	1560.2	1561.5	1562.8
150°	1611.3	1610.6	1609.9	1609.3	1608.6	1607.9	1607.3	1606.6	1607.3	1607.9	1608.6
152.5°	1650.8	1650.4	1650.0	1649.3	1648.4	1647.5	1646.5	1645.6	1646.5	1647.5	1648.4
155°	1707.9	1707.6	1707.3	1707.1	1707.1	1707.1	1707.1	1707.1	1707.1	1707.1	1707.1
157.5°	1758.3	1758.1	1757.8	1757.9	1758.3	1758.7	1759.1	1759.5	1759.1	1758.7	1758.3
160°	1789.3	1789.3	1789.3	1789.7	1790.3	1791.0	1791.7	1792.4	1791.7	1791.0	1790.3
162.5°	1818.1	1817.8	1817.5	1817.9	1818.8	1819.7	1820.7	1821.6	1820.7	1819.7	1818.8
165°	1854.8	1854.8	1854.8	1855.3	1856.3	1857.3	1858.4	1859.4	1858.4	1857.3	1856.3
167.5°	1884.1	1883.8	1883.6	1884.1	1885.4	1886.8	1888.1	1889.6	1888.1	1886.8	1885.4
170°	1900.5	1900.5	1900.5	1901.2	1902.5	1903.9	1905.2	1906.5	1905.2	1903.9	1902.5
172.5°	1913.9	1913.9	1913.9	1914.6	1915.9	1917.2	1918.6	1920.0	1918.6	1917.2	1915.9
175°	1927.9	1927.9	1927.9	1928.5	1930.0	1931.3	1932.7	1934.0	1932.7	1931.3	1930.0
177.5°	1934.9	1934.9	1934.9	1935.4	1936.5	1937.6	1938.7	1939.7	1938.7	1937.6	1936.5
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



TEST NUMBER: P332205-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	14.0	15.3	15.7	17.1	17.5	18.9	19.1	18.3	18.6	20.5	18.5
90°	15.0	19.0	23.3	27.8	32.1	36.6	37.9	39.3	40.6	42.0	43.0
92.5°	46.0	48.5	51.0	53.4	55.9	58.5	59.6	60.6	61.7	62.8	63.1
95°	99.4	101.9	104.5	107.2	110.0	112.7	114.0	115.4	116.7	118.1	118.8
97.5°	166.6	168.4	170.5	172.4	174.4	176.3	177.9	179.5	181.0	182.6	183.3
100°	215.2	217.1	218.7	220.5	222.2	223.9	224.9	225.9	226.9	227.9	228.7
102.5°	266.8	268.5	270.7	273.0	275.2	277.4	278.5	279.5	280.5	281.6	282.0
105°	345.4	347.2	350.2	353.3	356.4	359.4	359.4	359.4	359.4	359.4	359.7
107.5°	438.1	438.9	440.1	441.3	442.5	443.7	444.8	446.0	447.0	448.1	448.4
110°	497.7	498.3	499.0	499.7	500.3	501.0	502.4	503.7	505.0	506.4	506.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	557.4	557.7	557.8	558.0	558.2	558.3	559.9	561.5	563.1	564.7	565.5
115°	651.3	651.5	650.8	650.1	649.4	648.7	649.0	649.4	649.7	650.1	650.1
117.5°	741.8	741.7	740.9	740.0	739.1	738.3	738.2	738.1	738.1	738.0	737.5
120°	804.6	804.8	803.0	801.3	799.6	798.0	797.6	797.3	797.0	796.6	796.1
122.5°	862.1	862.4	861.5	860.6	859.8	858.9	858.0	857.1	856.3	855.4	854.4
125°	951.3	951.4	950.8	950.1	949.4	948.8	947.4	946.0	944.6	943.3	941.9
127.5°	1040.0	1040.7	1039.9	1039.2	1038.4	1037.6	1035.7	1033.9	1032.0	1030.1	1028.3
130°	1098.1	1098.9	1097.9	1096.9	1095.9	1094.9	1093.6	1092.2	1090.9	1089.5	1087.6
132.5°	1154.2	1155.2	1154.4	1153.7	1152.9	1152.2	1150.5	1148.9	1147.3	1145.7	1144.0
135°	1237.1	1237.9	1237.6	1237.2	1236.9	1236.6	1235.2	1233.9	1232.4	1231.1	1230.1
137.5°	1314.8	1316.2	1317.1	1317.9	1318.8	1319.7	1318.3	1316.9	1315.5	1314.0	1312.6
140°	1369.7	1370.7	1371.1	1371.4	1371.7	1372.1	1371.7	1371.4	1371.1	1370.7	1369.4
142.5°	1419.7	1420.8	1421.4	1422.0	1422.6	1423.2	1422.9	1422.6	1422.2	1421.9	1420.8
145°	1493.6	1494.4	1495.4	1496.4	1497.4	1498.4	1498.1	1497.7	1497.4	1497.1	1496.2
147.5°	1564.0	1565.0	1566.0	1566.9	1567.8	1568.8	1568.8	1568.8	1568.8	1568.8	1567.8
150°	1609.3	1609.9	1610.6	1611.3	1611.9	1612.7	1612.7	1612.7	1612.7	1612.7	1611.6
152.5°	1649.3	1650.0	1650.4	1650.8	1651.2	1651.6	1652.2	1652.7	1653.3	1653.9	1653.3
155°	1707.1	1707.3	1707.6	1707.9	1708.3	1708.6	1710.0	1711.3	1712.6	1714.0	1713.5
157.5°	1757.9	1757.8	1758.1	1758.3	1758.6	1758.9	1760.3	1761.7	1763.1	1764.5	1764.3
160°	1789.7	1789.3	1789.3	1789.3	1789.3	1789.3	1791.0	1792.7	1794.4	1796.0	1796.2
162.5°	1817.9	1817.5	1817.8	1818.1	1818.3	1818.6	1820.3	1821.9	1823.6	1825.3	1825.1
165°	1855.3	1854.8	1854.8	1854.8	1854.8	1854.8	1856.8	1858.9	1860.9	1862.9	1862.8
167.5°	1884.1	1883.6	1883.8	1884.1	1884.4	1884.6	1886.7	1888.9	1891.0	1893.0	1893.0
170°	1901.2	1900.5	1900.5	1900.5	1900.5	1900.5	1902.9	1905.2	1907.6	1910.0	1910.0
172.5°	1914.6	1913.9	1913.9	1913.9	1913.9	1913.9	1916.0	1918.0	1920.2	1922.3	1922.2
175°	1928.5	1927.9	1927.9	1927.9	1927.9	1927.9	1930.0	1932.0	1934.0	1936.0	1935.8
177.5°	1935.4	1934.9	1934.9	1934.9	1934.9	1934.9	1936.5	1938.1	1939.7	1941.4	1941.3
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



TEST NUMBER: P332205-840

CATALOG NUMBER: S123DIW-S1000D1535U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	18.6	18.8	18.4	18.0	18.4	18.8	18.6	18.5	20.5	18.6	18.3
90°	43.6	44.3	45.0	45.6	45.0	44.3	43.6	43.0	42.0	40.6	39.3
92.5°	62.7	62.3	61.9	61.5	61.9	62.3	62.7	63.1	62.8	61.7	60.6
95°	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.1	116.7	115.4
97.5°	183.2	183.0	182.9	182.8	182.9	183.0	183.2	183.3	182.6	181.0	179.5
100°	229.4	230.1	230.8	231.5	230.8	230.1	229.4	228.7	227.9	226.9	225.9
102.5°	281.9	281.7	281.6	281.4	281.6	281.7	281.9	282.0	281.6	280.5	279.5
105°	360.4	361.1	361.7	362.4	361.7	361.1	360.4	359.7	359.4	359.4	359.4
107.5°	448.0	447.6	447.2	446.8	447.2	447.6	448.0	448.4	448.1	447.0	446.0
110°	506.0	505.4	504.7	504.0	504.7	505.4	506.0	506.8	506.4	505.0	503.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	565.4	565.2	565.1	564.9	565.1	565.2	565.4	565.5	564.7	563.1	561.5
115°	649.7	649.4	649.0	648.7	649.0	649.4	649.7	650.1	650.1	649.7	649.4
117.5°	736.5	735.6	734.7	733.7	734.7	735.6	736.5	737.5	738.0	738.1	738.1
120°	795.5	794.8	794.1	793.3	794.1	794.8	795.5	796.1	796.6	797.0	797.3
122.5°	853.5	852.5	851.6	850.6	851.6	852.5	853.5	854.4	855.4	856.3	857.1
125°	940.6	939.3	937.9	936.5	937.9	939.3	940.6	941.9	943.3	944.6	946.0
127.5°	1026.8	1025.2	1023.7	1022.1	1023.7	1025.2	1026.8	1028.3	1030.1	1032.0	1033.9
130°	1085.3	1082.9	1080.6	1078.1	1080.6	1082.9	1085.3	1087.6	1089.5	1090.9	1092.2
132.5°	1142.2	1140.3	1138.4	1136.6	1138.4	1140.3	1142.2	1144.0	1145.7	1147.3	1148.9
135°	1229.4	1228.7	1228.1	1227.4	1228.1	1228.7	1229.4	1230.1	1231.1	1232.4	1233.9
137.5°	1311.3	1310.1	1308.8	1307.5	1308.8	1310.1	1311.3	1312.6	1314.0	1315.5	1316.9
140°	1367.0	1364.6	1362.2	1359.9	1362.2	1364.6	1367.0	1369.4	1370.7	1371.1	1371.4
142.5°	1419.0	1417.1	1415.3	1413.5	1415.3	1417.1	1419.0	1420.8	1421.9	1422.2	1422.6
145°	1494.9	1493.6	1492.2	1490.9	1492.2	1493.6	1494.9	1496.2	1497.1	1497.4	1497.7
147.5°	1565.8	1563.8	1561.7	1559.6	1561.7	1563.8	1565.8	1567.8	1568.8	1568.8	1568.8
150°	1609.6	1607.6	1605.6	1603.6	1605.6	1607.6	1609.6	1611.6	1612.7	1612.7	1612.7
152.5°	1651.4	1649.7	1647.9	1646.2	1647.9	1649.7	1651.4	1653.3	1653.9	1653.3	1652.7
155°	1711.1	1708.8	1706.4	1704.0	1706.4	1708.8	1711.1	1713.5	1714.0	1712.6	1711.3
157.5°	1762.4	1760.5	1758.6	1756.8	1758.6	1760.5	1762.4	1764.3	1764.5	1763.1	1761.7
160°	1794.9	1793.5	1792.2	1790.8	1792.2	1793.5	1794.9	1796.2	1796.0	1794.4	1792.7
162.5°	1822.9	1820.8	1818.6	1816.4	1818.6	1820.8	1822.9	1825.1	1825.3	1823.6	1821.9
165°	1860.4	1858.1	1855.6	1853.3	1855.6	1858.1	1860.4	1862.8	1862.9	1860.9	1858.9
167.5°	1891.0	1888.9	1886.7	1884.6	1886.7	1888.9	1891.0	1893.0	1893.0	1891.0	1888.9
170°	1907.6	1905.2	1902.9	1900.5	1902.9	1905.2	1907.6	1910.0	1910.0	1907.6	1905.2
172.5°	1919.8	1917.4	1915.0	1912.7	1915.0	1917.4	1919.8	1922.2	1922.3	1920.2	1918.0
175°	1933.5	1931.1	1928.7	1926.4	1928.7	1931.1	1933.5	1935.8	1936.0	1934.0	1932.0
177.5°	1939.3	1937.4	1935.6	1933.7	1935.6	1937.4	1939.3	1941.3	1941.4	1939.7	1938.1
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	19.1	18.9	17.5	17.1	15.7	15.3	14.0	13.8	13.7	13.0	13.5
90°	37.9	36.6	32.1	27.8	23.3	19.0	15.0	11.7	8.3	4.9	1.5
92.5°	59.6	58.5	55.9	53.4	51.0	48.5	46.0	43.7	41.4	39.2	36.9
95°	114.0	112.7	110.0	107.2	104.5	101.9	99.4	96.9	94.6	92.2	89.9
97.5°	177.9	176.3	174.4	172.4	170.5	168.4	166.6	164.9	163.1	161.4	159.6
100°	224.9	223.9	222.2	220.5	218.7	217.1	215.2	213.2	211.2	209.1	207.1
102.5°	278.5	277.4	275.2	273.0	270.7	268.5	266.8	265.6	264.4	263.2	262.0
105°	359.4	359.4	356.4	353.3	350.2	347.2	345.4	344.7	344.0	343.4	342.6
107.5°	444.8	443.7	442.5	441.3	440.1	438.9	438.1	437.7	437.3	436.9	436.5
110°	502.4	501.0	500.3	499.7	499.0	498.3	497.7	497.0	496.2	495.6	494.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	559.9	558.3	558.2	558.0	557.8	557.7	557.4	557.0	556.6	556.2	555.8
115°	649.0	648.7	649.4	650.1	650.8	651.5	651.3	650.3	649.2	648.2	647.2
117.5°	738.2	738.3	739.1	740.0	740.9	741.7	741.8	741.2	740.5	739.8	739.2
120°	797.6	798.0	799.6	801.3	803.0	804.8	804.6	802.5	800.5	798.5	796.5
122.5°	858.0	858.9	859.8	860.6	861.5	862.4	862.1	860.6	859.1	857.6	856.2
125°	947.4	948.8	949.4	950.1	950.8	951.4	951.3	950.3	949.3	948.2	947.2
127.5°	1035.7	1037.6	1038.4	1039.2	1039.9	1040.7	1040.0	1037.7	1035.6	1033.4	1031.3
130°	1093.6	1094.9	1095.9	1096.9	1097.9	1098.9	1098.1	1095.4	1092.7	1090.0	1087.3
132.5°	1150.5	1152.2	1152.9	1153.7	1154.4	1155.2	1154.2	1151.4	1148.7	1146.0	1143.4
135°	1235.2	1236.6	1236.9	1237.2	1237.6	1237.9	1237.1	1235.0	1232.9	1230.9	1228.9
137.5°	1318.3	1319.7	1318.8	1317.9	1317.1	1316.2	1314.8	1313.2	1311.5	1309.8	1308.1
140°	1371.7	1372.1	1371.7	1371.4	1371.1	1370.7	1369.7	1368.0	1366.3	1364.6	1362.9
142.5°	1422.9	1423.2	1422.6	1422.0	1421.4	1420.8	1419.7	1418.0	1416.2	1414.5	1412.9
145°	1498.1	1498.4	1497.4	1496.4	1495.4	1494.4	1493.6	1492.9	1492.2	1491.6	1490.9
147.5°	1568.8	1568.8	1567.8	1566.9	1566.0	1565.0	1564.0	1562.8	1561.5	1560.2	1559.0
150°	1612.7	1612.7	1611.9	1611.3	1610.6	1609.9	1609.3	1608.6	1607.9	1607.3	1606.6
152.5°	1652.2	1651.6	1651.2	1650.8	1650.4	1650.0	1649.3	1648.4	1647.5	1646.5	1645.6
155°	1710.0	1708.6	1708.3	1707.9	1707.6	1707.3	1707.1	1707.1	1707.1	1707.1	1707.1
157.5°	1760.3	1758.9	1758.6	1758.3	1758.1	1757.8	1757.9	1758.3	1758.7	1759.1	1759.5
160°	1791.0	1789.3	1789.3	1789.3	1789.3	1789.3	1789.7	1790.3	1791.0	1791.7	1792.4
162.5°	1820.3	1818.6	1818.3	1818.1	1817.8	1817.5	1817.9	1818.8	1819.7	1820.7	1821.6
165°	1856.8	1854.8	1854.8	1854.8	1854.8	1854.8	1855.3	1856.3	1857.3	1858.4	1859.4
167.5°	1886.7	1884.6	1884.4	1884.1	1883.8	1883.6	1884.1	1885.4	1886.8	1888.1	1889.6
170°	1902.9	1900.5	1900.5	1900.5	1900.5	1900.5	1901.2	1902.5	1903.9	1905.2	1906.5
172.5°	1916.0	1913.9	1913.9	1913.9	1913.9	1913.9	1914.6	1915.9	1917.2	1918.6	1920.0
175°	1930.0	1927.9	1927.9	1927.9	1927.9	1927.9	1928.5	1930.0	1931.3	1932.7	1934.0
177.5°	1936.5	1934.9	1934.9	1934.9	1934.9	1934.9	1935.4	1936.5	1937.6	1938.7	1939.7
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	15.2	16.0	18.3	20.1	23.0	25.5	25.9	25.7	26.0	25.8	25.4
90°	4.9	8.3	11.7	15.0	19.0	23.3	27.8	32.1	36.6	37.9	39.3
92.5°	39.2	41.4	43.7	46.0	48.5	51.0	53.4	55.9	58.5	59.6	60.6
95°	92.2	94.6	96.9	99.4	101.9	104.5	107.2	110.0	112.7	114.0	115.4
97.5°	161.4	163.1	164.9	166.6	168.4	170.5	172.4	174.4	176.3	177.9	179.5
100°	209.1	211.2	213.2	215.2	217.1	218.7	220.5	222.2	223.9	224.9	225.9
102.5°	263.2	264.4	265.6	266.8	268.5	270.7	273.0	275.2	277.4	278.5	279.5
105°	343.4	344.0	344.7	345.4	347.2	350.2	353.3	356.4	359.4	359.4	359.4
107.5°	436.9	437.3	437.7	438.1	438.9	440.1	441.3	442.5	443.7	444.8	446.0
110°	495.6	496.2	497.0	497.7	498.3	499.0	499.7	500.3	501.0	502.4	503.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	556.2	556.6	557.0	557.4	557.7	557.8	558.0	558.2	558.3	559.9	561.5
115°	648.2	649.2	650.3	651.3	651.5	650.8	650.1	649.4	648.7	649.0	649.4
117.5°	739.8	740.5	741.2	741.8	741.7	740.9	740.0	739.1	738.3	738.2	738.1
120°	798.5	800.5	802.5	804.6	804.8	803.0	801.3	799.6	798.0	797.6	797.3
122.5°	857.6	859.1	860.6	862.1	862.4	861.5	860.6	859.8	858.9	858.0	857.1
125°	948.2	949.3	950.3	951.3	951.4	950.8	950.1	949.4	948.8	947.4	946.0
127.5°	1033.4	1035.6	1037.7	1040.0	1040.7	1039.9	1039.2	1038.4	1037.6	1035.7	1033.9
130°	1090.0	1092.7	1095.4	1098.1	1098.9	1097.9	1096.9	1095.9	1094.9	1093.6	1092.2
132.5°	1146.0	1148.7	1151.4	1154.2	1155.2	1154.4	1153.7	1152.9	1152.2	1150.5	1148.9
135°	1230.9	1232.9	1235.0	1237.1	1237.9	1237.6	1237.2	1236.9	1236.6	1235.2	1233.9
137.5°	1309.8	1311.5	1313.2	1314.8	1316.2	1317.1	1317.9	1318.8	1319.7	1318.3	1316.9
140°	1364.6	1366.3	1368.0	1369.7	1370.7	1371.1	1371.4	1371.7	1372.1	1371.7	1371.4
142.5°	1414.5	1416.2	1418.0	1419.7	1420.8	1421.4	1422.0	1422.6	1423.2	1422.9	1422.6
145°	1491.6	1492.2	1492.9	1493.6	1494.4	1495.4	1496.4	1497.4	1498.4	1498.1	1497.7
147.5°	1560.2	1561.5	1562.8	1564.0	1565.0	1566.0	1566.9	1567.8	1568.8	1568.8	1568.8
150°	1607.3	1607.9	1608.6	1609.3	1609.9	1610.6	1611.3	1611.9	1612.7	1612.7	1612.7
152.5°	1646.5	1647.5	1648.4	1649.3	1650.0	1650.4	1650.8	1651.2	1651.6	1652.2	1652.7
155°	1707.1	1707.1	1707.1	1707.1	1707.3	1707.6	1707.9	1708.3	1708.6	1710.0	1711.3
157.5°	1759.1	1758.7	1758.3	1757.9	1757.8	1758.1	1758.3	1758.6	1758.9	1760.3	1761.7
160°	1791.7	1791.0	1790.3	1789.7	1789.3	1789.3	1789.3	1789.3	1789.3	1791.0	1792.7
162.5°	1820.7	1819.7	1818.8	1817.9	1817.5	1817.8	1818.1	1818.3	1818.6	1820.3	1821.9
165°	1858.4	1857.3	1856.3	1855.3	1854.8	1854.8	1854.8	1854.8	1854.8	1856.8	1858.9
167.5°	1888.1	1886.8	1885.4	1884.1	1883.6	1883.8	1884.1	1884.4	1884.6	1886.7	1888.9
170°	1905.2	1903.9	1902.5	1901.2	1900.5	1900.5	1900.5	1900.5	1900.5	1902.9	1905.2
172.5°	1918.6	1917.2	1915.9	1914.6	1913.9	1913.9	1913.9	1913.9	1913.9	1916.0	1918.0
175°	1932.7	1931.3	1930.0	1928.5	1927.9	1927.9	1927.9	1927.9	1927.9	1930.0	1932.0
177.5°	1938.7	1937.6	1936.5	1935.4	1934.9	1934.9	1934.9	1934.9	1934.9	1936.5	1938.1
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	25.1	24.8	24.5	25.2	24.8	24.4	25.7
90°	40.6	42.0	43.0	43.6	44.3	45.0	45.6
92.5°	61.7	62.8	63.1	62.7	62.3	61.9	61.5
95°	116.7	118.1	118.8	118.8	118.8	118.8	118.8
97.5°	181.0	182.6	183.3	183.2	183.0	182.9	182.8
100°	226.9	227.9	228.7	229.4	230.1	230.8	231.5
102.5°	280.5	281.6	282.0	281.9	281.7	281.6	281.4
105°	359.4	359.4	359.7	360.4	361.1	361.7	362.4
107.5°	447.0	448.1	448.4	448.0	447.6	447.2	446.8
110°	505.0	506.4	506.8	506.0	505.4	504.7	504.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	563.1	564.7	565.5	565.4	565.2	565.1	564.9
115°	649.7	650.1	650.1	649.7	649.4	649.0	648.7
117.5°	738.1	738.0	737.5	736.5	735.6	734.7	733.7
120°	797.0	796.6	796.1	795.5	794.8	794.1	793.3
122.5°	856.3	855.4	854.4	853.5	852.5	851.6	850.6
125°	944.6	943.3	941.9	940.6	939.3	937.9	936.5
127.5°	1032.0	1030.1	1028.3	1026.8	1025.2	1023.7	1022.1
130°	1090.9	1089.5	1087.6	1085.3	1082.9	1080.6	1078.1
132.5°	1147.3	1145.7	1144.0	1142.2	1140.3	1138.4	1136.6
135°	1232.4	1231.1	1230.1	1229.4	1228.7	1228.1	1227.4
137.5°	1315.5	1314.0	1312.6	1311.3	1310.1	1308.8	1307.5
140°	1371.1	1370.7	1369.4	1367.0	1364.6	1362.2	1359.9
142.5°	1422.2	1421.9	1420.8	1419.0	1417.1	1415.3	1413.5
145°	1497.4	1497.1	1496.2	1494.9	1493.6	1492.2	1490.9
147.5°	1568.8	1568.8	1567.8	1565.8	1563.8	1561.7	1559.6
150°	1612.7	1612.7	1611.6	1609.6	1607.6	1605.6	1603.6
152.5°	1653.3	1653.9	1653.3	1651.4	1649.7	1647.9	1646.2
155°	1712.6	1714.0	1713.5	1711.1	1708.8	1706.4	1704.0
157.5°	1763.1	1764.5	1764.3	1762.4	1760.5	1758.6	1756.8
160°	1794.4	1796.0	1796.2	1794.9	1793.5	1792.2	1790.8
162.5°	1823.6	1825.3	1825.1	1822.9	1820.8	1818.6	1816.4
165°	1860.9	1862.9	1862.8	1860.4	1858.1	1855.6	1853.3
167.5°	1891.0	1893.0	1893.0	1891.0	1888.9	1886.7	1884.6
170°	1907.6	1910.0	1910.0	1907.6	1905.2	1902.9	1900.5
172.5°	1920.2	1922.3	1922.2	1919.8	1917.4	1915.0	1912.7
175°	1934.0	1936.0	1935.8	1933.5	1931.1	1928.7	1926.4
177.5°	1939.7	1941.4	1941.3	1939.3	1937.4	1935.6	1933.7
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5

(END OF REPORT)