

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: P333071

Luminaire Tested: **S124RDIW-S795D1560U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333071
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S795D1560U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9579.4 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

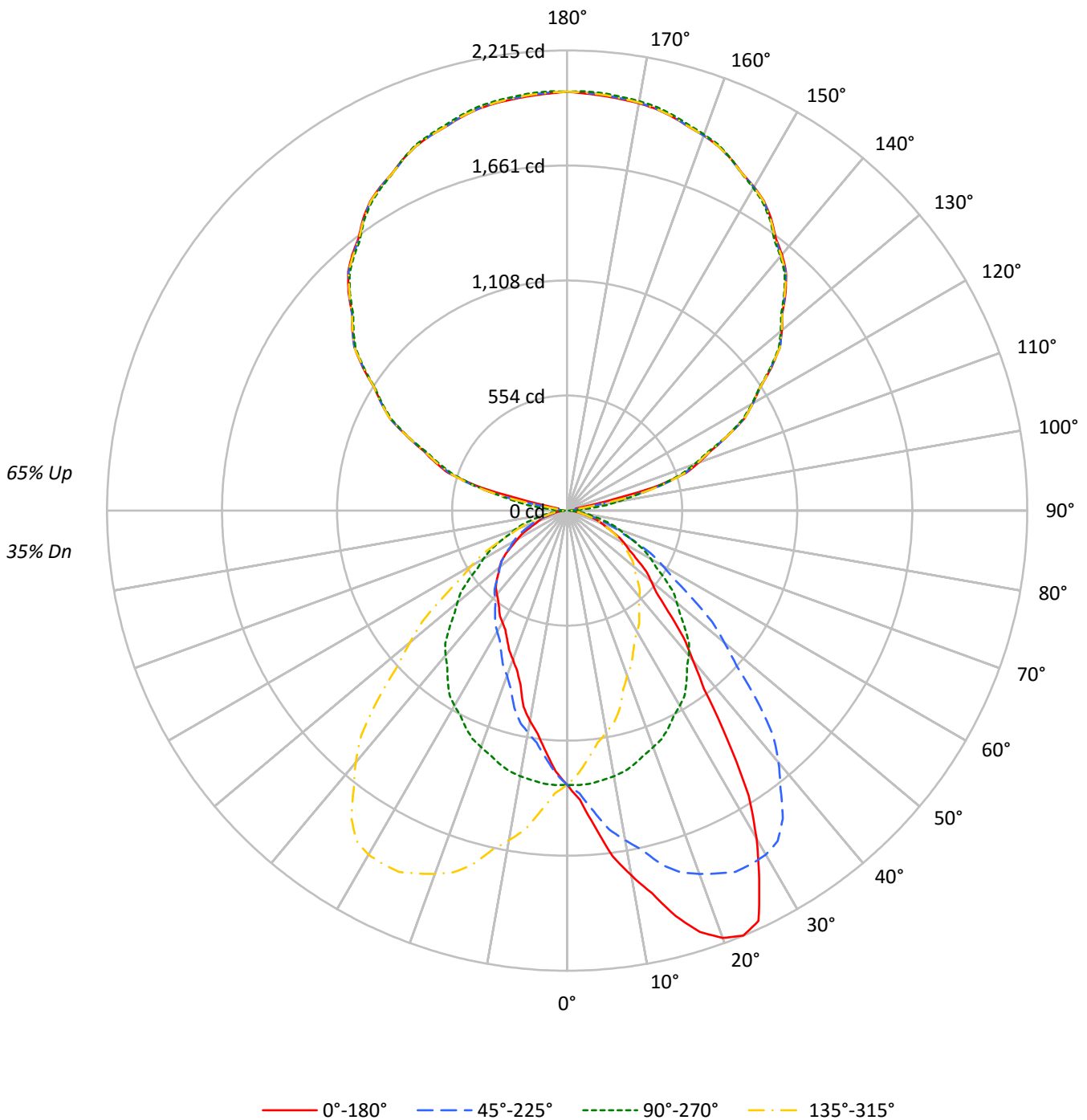
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35																												
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	38	37	36	30																												
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	34	32	31	26																												
3	79	70	63	58	71	64	58	53	52	47	44	40	38	35	30	28	27	22																												
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19																												
5	66	55	48	42	60	50	44	39	41	36	32	33	29	26	24	22	20	17																												
6	61	50	42	36	55	45	39	34	37	32	28	29	26	23	22	20	18	15																												
7	57	45	37	32	51	41	34	29	34	29	25	27	23	20	20	18	16	13																												
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	19	16	14	12																												
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11																												
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10656	10656	10656	10656
5°	12361	10689	9447	10689
10°	14623	10642	8432	10642
15°	16891	10543	7245	10543
20°	18806	10408	6552	10408
25°	19414	10276	6083	10276
30°	16995	10113	5800	10113
35°	13230	9875	5629	9875
40°	9921	9601	5538	9601
45°	7833	9162	5489	9162
50°	6612	8657	5330	8657
55°	5764	8099	5046	8099
60°	5186	7522	4466	7522
65°	4571	6898	3840	6898
70°	4116	6253	3465	6253
75°	3450	5540	2954	5540
80°	2920	4723	2771	4723
85°	2464	3696	2464	3696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.3
10°-20°	385.8	4.0
20°-30°	603.4	6.3
30°-40°	670.8	7.0
40°-50°	595.2	6.2
50°-60°	463.8	4.8
60°-70°	303.6	3.2
70°-80°	149.3	1.6
80°-90°	42.7	0.4
90°-100°	69.0	0.7
100°-110°	439.7	4.6
110°-120°	841.1	8.8
120°-130°	1067.8	11.1
130°-140°	1142.4	11.9
140°-150°	1068.3	11.2
150°-160°	861.5	9.0
160°-170°	555.6	5.8
170°-180°	191.5	2.0
0°-30°	1117.1	11.7
0°-40°	1787.9	18.7
0°-60°	2846.9	29.7
0°-90°	3342.5	34.9
90°-120°	1349.8	14.1
90°-150°	4628.2	48.3
90°-180°	6237.0	65.1
0°-180°	9579.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1320	1320	1320	1320	1320	
5°	1525	1319	1166	1319	1525	154
15°	2021	1262	867	1262	2021	575
25°	2180	1154	683	1154	2180	967
35°	1342	1002	571	1002	1342	841
45°	686	802	481	802	686	543
55°	410	575	358	575	410	372
65°	239	361	201	361	239	241
75°	111	178	95	178	111	122
85°	27	40	27	40	27	31
90°	45	4	45	4	45	21
95°	44	83	44	83	44	35
105°	430	454	430	454	430	375
115°	854	848	854	848	854	845
125°	1200	1191	1200	1191	1200	1069
135°	1488	1478	1488	1478	1488	1146
145°	1713	1704	1713	1704	1713	1071
155°	1867	1868	1867	1868	1867	861
165°	1962	1971	1962	1971	1962	554
175°	2004	2016	2004	2016	2004	191
180°	2016	2016	2016	2016	2016	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1392.3	1396.2	1392.3	1391.9	1387.7	1386.4	1384.7	1379.2	1368.9	1363.0	1364.3
5°	1525.3	1538.6	1531.2	1530.1	1518.4	1506.7	1499.2	1482.2	1464.1	1451.9	1441.8
7.5°	1679.1	1686.8	1682.1	1674.6	1655.7	1645.0	1627.7	1605.3	1572.9	1548.1	1525.4
10°	1783.8	1790.2	1788.0	1774.2	1760.4	1732.2	1716.2	1684.9	1643.9	1611.5	1581.2
12.5°	1886.7	1893.6	1874.8	1875.5	1849.3	1827.1	1801.8	1762.3	1715.0	1673.2	1635.2
15°	2021.0	2012.5	2012.5	2001.8	1972.6	1941.7	1915.7	1874.2	1814.6	1764.6	1712.0
17.5°	2126.1	2129.0	2124.7	2099.6	2076.6	2044.7	1996.9	1948.5	1893.2	1826.1	1772.3
20°	2189.0	2189.0	2184.3	2167.2	2137.5	2103.4	2051.8	1999.2	1929.0	1861.4	1800.8
22.5°	2214.6	2216.3	2210.6	2196.6	2169.8	2136.6	2092.7	2039.2	1966.8	1890.8	1815.7
25°	2179.5	2189.6	2190.6	2186.9	2178.9	2158.7	2121.0	2066.2	2001.3	1918.9	1838.0
27.5°	2001.0	2013.7	2024.9	2043.3	2067.8	2080.5	2082.2	2054.4	1997.8	1918.4	1837.1
30°	1823.1	1833.8	1868.3	1913.5	1948.7	1980.6	2008.2	2015.7	1983.8	1912.5	1826.9
32.5°	1625.7	1640.2	1674.8	1723.4	1781.9	1835.9	1898.0	1929.7	1928.9	1886.1	1806.9
35°	1342.4	1353.0	1384.9	1436.0	1506.2	1586.5	1684.9	1761.4	1813.6	1809.8	1761.4
37.5°	1082.6	1094.6	1126.9	1169.2	1237.3	1336.7	1431.9	1537.4	1633.8	1687.9	1671.8
40°	941.4	941.9	973.3	1016.9	1080.7	1167.4	1271.1	1388.1	1495.5	1583.3	1600.3
42.5°	829.9	830.0	850.7	897.7	943.7	1025.3	1124.3	1240.5	1366.2	1467.6	1512.7
45°	686.1	690.9	707.9	736.1	772.2	841.4	920.6	1028.6	1169.5	1289.7	1364.7
47.5°	581.0	588.0	598.8	621.8	650.6	696.7	762.2	859.2	973.9	1106.1	1212.8
50°	526.5	527.6	541.4	554.2	579.2	615.9	673.3	754.1	859.4	986.6	1105.2
52.5°	479.7	479.5	487.8	504.0	524.3	552.9	599.3	672.9	766.3	880.2	1002.6
55°	409.5	412.2	418.6	431.3	446.7	467.0	503.6	559.0	632.4	729.7	840.8
57.5°	356.1	357.5	362.5	367.9	382.1	396.8	424.3	462.7	524.6	604.3	707.9
60°	321.2	321.8	323.4	331.3	342.5	356.3	374.9	407.4	459.5	532.4	614.3
62.5°	287.2	288.1	290.6	296.4	305.1	314.6	334.1	360.2	403.3	465.6	539.4
65°	239.3	239.9	243.6	245.7	252.6	261.1	275.5	293.0	322.8	374.9	430.8
67.5°	200.0	200.0	200.2	203.1	207.8	213.5	222.1	236.1	258.6	290.6	339.8
70°	174.4	174.4	175.5	177.1	179.8	184.5	189.3	200.0	216.5	242.5	280.3
72.5°	150.6	151.0	152.1	152.4	153.8	157.7	161.3	168.1	180.3	200.0	230.5
75°	110.6	112.2	114.9	117.0	119.7	119.1	122.9	127.1	130.8	142.5	160.1
77.5°	82.3	81.5	81.8	83.6	83.9	84.5	87.1	90.4	93.2	98.7	105.0
80°	62.8	62.8	64.4	64.9	64.4	64.9	67.5	69.1	70.2	72.3	78.2
82.5°	47.4	48.3	47.8	48.3	48.6	49.1	51.4	51.7	52.8	53.6	56.1
85°	26.6	27.1	27.7	26.6	26.6	26.6	27.7	28.2	29.3	28.7	29.8
87.5°	18.4	17.8	18.1	18.0	18.3	17.6	17.6	18.1	16.8	16.8	16.3
90°	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2	35.2	33.2	30.5
92.5°	41.6	41.5	41.4	41.2	41.1	40.0	38.0	36.0	34.0	32.0	29.3
95°	43.7	43.4	43.1	42.7	42.4	41.2	39.2	37.2	35.2	33.2	32.8
97.5°	42.2	41.9	41.6	41.2	40.9	40.6	40.4	40.2	40.0	39.8	77.2
100°	42.2	41.9	41.6	41.2	40.9	43.6	49.3	55.0	60.7	66.4	112.6
102.5°	43.4	43.4	43.3	43.2	43.2	73.9	135.3	196.8	258.2	319.7	325.7
105°	429.8	441.9	453.9	466.0	478.0	482.6	479.6	476.5	473.5	470.5	468.8
107.5°	599.0	597.7	596.4	595.2	593.9	592.5	591.1	589.6	588.1	586.6	584.3
110°	672.6	671.6	670.6	669.6	668.6	667.7	667.1	666.4	665.7	665.0	663.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	746.2	744.9	743.6	742.4	741.1	740.5	740.6	740.8	740.9	741.1	740.1
115°	853.6	853.6	853.6	853.6	853.6	853.2	852.5	851.9	851.2	850.5	850.9
117.5°	962.7	962.9	963.0	963.1	963.3	963.4	963.5	963.7	963.8	963.9	963.2
120°	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2	1033.5	1032.8	1032.2	1031.5	1031.8
122.5°	1099.1	1099.7	1100.4	1101.1	1101.7	1101.9	1101.5	1101.1	1100.7	1100.3	1099.8
125°	1200.4	1200.1	1199.7	1199.4	1199.1	1198.4	1197.4	1196.4	1195.4	1194.4	1195.0
127.5°	1289.4	1289.6	1289.9	1290.2	1290.4	1290.7	1290.9	1291.1	1291.3	1291.5	1289.9
130°	1349.7	1349.7	1349.7	1349.7	1349.7	1349.5	1349.2	1348.9	1348.5	1348.2	1347.2
132.5°	1405.2	1405.5	1405.7	1406.0	1406.3	1406.2	1405.9	1405.6	1405.2	1404.9	1403.6
135°	1488.4	1487.8	1487.1	1486.4	1485.8	1485.1	1484.4	1483.7	1483.1	1482.4	1481.1
137.5°	1559.6	1559.8	1560.0	1560.2	1560.4	1560.2	1559.4	1558.7	1557.9	1557.2	1555.7
140°	1609.1	1608.7	1608.4	1608.1	1607.7	1607.1	1606.1	1605.1	1604.1	1603.0	1602.4
142.5°	1650.1	1650.0	1650.0	1649.9	1649.8	1649.4	1648.7	1648.0	1647.2	1646.5	1646.1
145°	1713.1	1712.5	1711.8	1711.1	1710.5	1709.9	1709.6	1709.3	1708.9	1708.6	1708.6
147.5°	1765.3	1765.0	1764.6	1764.3	1764.0	1763.7	1763.4	1763.1	1762.9	1762.6	1762.9
150°	1799.1	1798.8	1798.4	1798.1	1797.8	1797.6	1797.6	1797.6	1797.6	1797.6	1797.9
152.5°	1828.0	1828.2	1828.4	1828.6	1828.8	1828.7	1828.1	1827.6	1827.1	1826.5	1827.1
155°	1867.0	1868.0	1869.0	1870.0	1871.0	1870.8	1869.5	1868.1	1866.8	1865.4	1866.5
157.5°	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5	1904.8	1903.0	1901.3	1899.5	1900.7
160°	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3	1927.3	1925.3	1923.3	1921.2	1921.6
162.5°	1938.1	1940.4	1942.7	1945.0	1947.2	1947.4	1945.4	1943.4	1941.3	1939.3	1939.7
165°	1962.0	1965.0	1968.0	1971.0	1974.0	1974.2	1971.5	1968.8	1966.1	1963.5	1963.5
167.5°	1979.8	1983.1	1986.5	1989.8	1993.2	1993.4	1990.4	1987.5	1984.5	1981.6	1981.8
170°	1990.6	1994.0	1997.3	2000.7	2004.0	2004.4	2001.7	1999.0	1996.3	1993.6	1993.3
172.5°	1996.6	2000.3	2003.9	2007.5	2011.1	2011.6	2008.9	2006.2	2003.5	2000.9	2000.5
175°	2004.2	2008.2	2012.2	2016.2	2020.3	2020.8	2017.8	2014.7	2011.7	2008.7	2008.4
177.5°	2009.0	2012.2	2015.4	2018.7	2021.9	2022.4	2020.3	2018.1	2016.0	2013.8	2013.3
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1360.0	1354.1	1351.1	1344.3	1336.2	1331.9	1328.1	1322.6	1315.3	1307.7	1302.1
5°	1429.0	1416.3	1400.3	1381.2	1364.2	1347.7	1333.3	1319.0	1302.5	1285.4	1268.4
7.5°	1499.9	1474.8	1447.7	1416.3	1385.8	1358.0	1332.5	1308.0	1280.3	1255.6	1233.0
10°	1549.2	1515.2	1477.4	1437.6	1397.7	1363.1	1329.1	1298.2	1264.2	1233.9	1208.3
12.5°	1589.2	1549.2	1503.8	1454.1	1406.2	1364.4	1325.2	1285.0	1246.3	1213.4	1179.4
15°	1655.6	1600.8	1539.7	1480.1	1417.9	1361.0	1308.3	1261.5	1217.4	1171.1	1138.7
17.5°	1701.2	1636.2	1561.9	1490.3	1416.8	1349.7	1289.0	1233.2	1182.3	1135.0	1096.4
20°	1728.5	1656.7	1574.2	1492.9	1410.4	1338.6	1273.2	1211.5	1158.9	1107.8	1067.9
22.5°	1743.8	1664.3	1574.2	1489.0	1403.6	1325.9	1254.1	1189.8	1132.5	1081.4	1037.3
25°	1748.7	1663.6	1571.6	1473.7	1380.1	1297.7	1223.2	1153.6	1089.7	1038.7	991.9
27.5°	1741.9	1641.7	1547.4	1447.0	1350.4	1263.5	1185.4	1112.2	1048.3	993.5	945.5
30°	1731.7	1624.2	1523.2	1418.9	1321.1	1237.6	1155.1	1084.9	1018.5	961.6	913.2
32.5°	1709.5	1603.0	1494.2	1387.5	1288.3	1202.3	1124.1	1053.5	988.3	930.1	878.7
35°	1665.7	1557.8	1439.7	1330.1	1232.8	1143.4	1070.1	1002.0	939.8	877.5	823.3
37.5°	1608.0	1497.7	1380.2	1260.2	1162.8	1078.5	1011.1	947.2	886.5	829.7	769.6
40°	1553.5	1453.0	1331.7	1212.6	1112.6	1031.2	969.0	911.0	849.9	793.5	733.4
42.5°	1487.5	1401.9	1279.4	1159.8	1061.1	982.7	924.8	868.1	812.4	757.8	695.1
45°	1377.5	1312.6	1197.7	1082.8	983.4	905.7	852.5	802.5	753.6	701.5	642.5
47.5°	1251.3	1207.4	1108.2	990.6	898.6	828.7	777.3	736.5	695.1	643.0	591.2
50°	1163.7	1135.5	1039.7	932.3	844.6	780.2	727.6	689.3	654.7	604.7	558.4
52.5°	1070.1	1055.1	974.2	871.5	786.7	723.6	678.6	644.2	609.2	567.7	524.4
55°	927.5	935.5	866.9	778.1	698.3	645.1	604.2	575.4	545.7	510.6	477.1
57.5°	781.8	810.9	764.9	686.9	612.1	563.0	532.2	508.0	483.0	453.9	425.3
60°	694.6	719.0	693.0	624.4	559.0	513.2	484.5	465.9	440.9	414.3	392.5
62.5°	609.5	635.7	620.2	564.8	504.1	464.7	439.4	422.1	403.5	380.3	357.6
65°	502.6	519.6	512.2	473.9	430.8	397.3	373.9	361.1	344.1	327.1	306.9
67.5°	384.9	417.8	413.5	393.1	355.9	329.7	314.4	303.1	287.6	275.0	261.2
70°	316.4	346.8	346.2	329.7	309.5	285.1	274.4	264.9	251.0	238.8	227.6
72.5°	259.0	286.8	290.9	278.3	264.4	245.9	235.7	229.1	215.7	207.3	198.3
75°	181.4	201.6	206.9	206.9	200.5	190.9	181.9	177.6	168.1	160.6	155.3
77.5°	118.9	131.7	140.0	141.9	142.9	139.7	132.2	129.2	121.9	119.2	114.1
80°	84.0	92.5	102.1	105.3	108.0	106.9	103.7	101.6	94.7	92.0	89.9
82.5°	58.1	62.8	70.6	77.6	76.9	79.7	76.9	75.2	70.0	69.0	66.9
85°	30.3	30.8	31.9	36.7	39.4	40.4	41.0	39.9	38.3	38.3	34.6
87.5°	15.8	14.8	15.1	14.5	14.2	15.1	15.7	15.4	14.8	14.3	13.8
90°	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5	8.2	11.9	15.6
92.5°	26.6	23.9	21.2	19.8	19.6	19.4	19.2	19.0	19.2	19.4	19.6
95°	32.5	32.2	31.8	37.4	48.8	60.2	71.5	82.9	71.5	60.2	48.8
97.5°	114.6	152.0	189.4	204.6	197.5	190.3	183.2	176.1	183.2	190.3	197.5
100°	158.8	205.1	251.3	271.4	265.4	259.4	253.4	247.3	253.4	259.4	265.4
102.5°	331.8	337.8	343.8	344.6	340.2	335.8	331.4	326.9	331.4	335.8	340.2
105°	467.2	465.5	463.8	462.0	460.0	457.9	455.9	453.9	455.9	457.9	460.0
107.5°	582.1	579.8	577.5	575.9	574.9	573.9	572.9	571.8	572.9	573.9	574.9
110°	661.0	659.0	657.0	655.5	654.5	653.5	652.5	651.5	652.5	653.5	654.5



TEST NUMBER: P333071

CATALOG NUMBER: S124RDIW-S795D1560U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	739.2	738.2	737.3	735.9	734.1	732.3	730.5	728.7	730.5	732.3	734.1
115°	851.2	851.5	851.9	851.5	850.5	849.5	848.5	847.5	848.5	849.5	850.5
117.5°	962.5	961.7	961.0	960.0	958.6	957.3	955.9	954.6	955.9	957.3	958.6
120°	1032.2	1032.5	1032.8	1032.3	1031.0	1029.7	1028.3	1027.0	1028.3	1029.7	1031.0
122.5°	1099.3	1098.9	1098.4	1097.8	1096.9	1096.1	1095.3	1094.5	1095.3	1096.1	1096.9
125°	1195.7	1196.4	1197.0	1196.7	1195.4	1194.0	1192.7	1191.4	1192.7	1194.0	1195.4
127.5°	1288.4	1286.9	1285.3	1284.4	1284.0	1283.7	1283.4	1283.0	1283.4	1283.7	1284.0
130°	1346.2	1345.2	1344.2	1343.5	1343.2	1342.8	1342.5	1342.2	1342.5	1342.8	1343.2
132.5°	1402.3	1401.1	1399.8	1398.9	1398.3	1397.7	1397.0	1396.4	1397.0	1397.7	1398.3
135°	1479.7	1478.4	1477.0	1476.5	1476.9	1477.2	1477.5	1477.9	1477.5	1477.2	1476.9
137.5°	1554.3	1552.8	1551.3	1550.5	1550.4	1550.2	1550.1	1550.0	1550.1	1550.2	1550.4
140°	1601.7	1601.0	1600.4	1599.7	1599.0	1598.4	1597.7	1597.0	1597.7	1598.4	1599.0
142.5°	1645.7	1645.3	1644.9	1644.1	1642.9	1641.7	1640.4	1639.2	1640.4	1641.7	1642.9
145°	1708.6	1708.6	1708.6	1708.1	1707.1	1706.1	1705.1	1704.1	1705.1	1706.1	1707.1
147.5°	1763.3	1763.6	1763.9	1763.2	1761.3	1759.4	1757.5	1755.7	1757.5	1759.4	1761.3
150°	1798.3	1798.6	1798.9	1798.4	1797.1	1795.7	1794.4	1793.1	1794.4	1795.7	1797.1
152.5°	1827.7	1828.3	1829.0	1828.7	1827.6	1826.6	1825.5	1824.4	1825.5	1826.6	1827.6
155°	1867.5	1868.5	1869.5	1869.8	1869.5	1869.1	1868.8	1868.5	1868.8	1869.1	1869.5
157.5°	1901.8	1902.9	1904.1	1904.8	1905.0	1905.2	1905.4	1905.6	1905.4	1905.2	1905.0
160°	1921.9	1922.2	1922.6	1923.3	1924.3	1925.3	1926.3	1927.3	1926.3	1925.3	1924.3
162.5°	1940.0	1940.3	1940.7	1941.5	1942.8	1944.0	1945.3	1946.6	1945.3	1944.0	1942.8
165°	1963.5	1963.5	1963.5	1964.3	1966.0	1967.7	1969.3	1971.0	1969.3	1967.7	1966.0
167.5°	1982.0	1982.2	1982.4	1983.3	1985.1	1986.8	1988.6	1990.3	1988.6	1986.8	1985.1
170°	1993.0	1992.6	1992.3	1993.1	1995.1	1997.1	1999.2	2001.2	1999.2	1997.1	1995.1
172.5°	2000.2	1999.9	1999.5	2000.4	2002.4	2004.4	2006.4	2008.4	2006.4	2004.4	2002.4
175°	2008.0	2007.7	2007.4	2008.2	2010.2	2012.2	2014.2	2016.2	2014.2	2012.2	2010.2
177.5°	2012.8	2012.2	2011.7	2012.4	2014.2	2016.1	2018.0	2019.9	2018.0	2016.1	2014.2
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1296.2	1291.9	1286.4	1280.0	1272.4	1265.6	1262.6	1265.1	1266.4	1263.0	1262.6
5°	1256.7	1243.4	1232.8	1216.8	1204.1	1193.4	1186.0	1182.8	1183.9	1175.4	1173.2
7.5°	1212.4	1196.6	1179.2	1160.3	1142.6	1127.0	1118.8	1114.3	1105.3	1101.4	1094.9
10°	1183.9	1162.6	1145.6	1123.2	1103.0	1084.4	1075.4	1067.9	1058.9	1054.6	1045.6
12.5°	1154.5	1129.8	1111.1	1087.9	1067.3	1044.8	1036.2	1022.4	1008.3	999.3	987.7
15°	1113.1	1083.4	1060.5	1032.8	1008.4	982.8	960.0	934.4	924.9	904.7	893.0
17.5°	1064.7	1034.5	1006.2	969.1	931.4	899.7	875.3	850.8	836.2	823.3	817.3
20°	1032.8	1005.2	965.8	922.7	880.7	845.6	825.9	810.0	794.0	785.0	778.6
22.5°	1002.6	967.3	921.6	875.1	833.1	805.6	788.9	772.5	759.6	751.0	742.4
25°	952.0	905.7	857.3	804.1	775.4	751.5	733.4	720.1	712.1	701.0	696.7
27.5°	900.0	843.9	790.5	754.8	724.9	703.0	687.2	677.2	667.1	660.0	654.5
30°	860.0	803.1	755.2	721.2	690.9	672.8	660.0	648.3	640.3	634.5	630.2
32.5°	820.4	763.5	723.3	686.7	662.8	645.1	631.5	622.8	616.5	609.0	606.4
35°	763.2	712.7	677.6	644.6	620.1	604.2	593.5	584.5	579.2	577.0	575.4
37.5°	708.2	666.8	629.1	602.0	580.2	567.7	555.1	550.7	547.0	543.2	544.9
40°	673.3	634.5	601.0	572.3	554.7	540.9	533.4	528.1	524.9	524.9	524.9
42.5°	643.1	605.1	572.5	546.7	529.2	517.5	509.2	504.7	503.6	503.2	505.8
45°	596.2	561.1	528.1	506.8	491.9	480.2	475.5	471.7	471.7	473.9	474.4
47.5°	549.7	516.8	490.4	466.5	452.9	445.6	441.4	439.5	439.7	441.9	444.3
50°	521.2	488.8	462.7	441.4	428.7	421.7	418.0	417.0	418.0	418.0	421.7
52.5°	490.1	461.1	435.5	417.6	403.1	396.6	394.6	393.1	393.8	395.5	397.1
55°	444.6	418.6	394.1	377.1	366.4	362.2	357.4	357.9	356.9	357.9	357.9
57.5°	399.0	375.6	352.8	339.3	330.0	323.8	318.6	320.1	318.5	318.3	317.4
60°	369.6	344.1	326.0	313.8	303.1	297.8	293.0	294.1	292.5	291.4	289.3
62.5°	337.7	316.4	299.2	287.4	278.9	272.7	267.9	266.9	263.2	259.5	254.9
65°	291.4	273.9	258.5	247.3	239.3	234.5	230.8	227.6	219.6	211.1	206.9
67.5°	246.5	233.8	219.4	210.0	203.5	197.2	190.1	184.7	177.2	172.5	169.9
70°	217.5	205.3	193.1	184.0	177.1	171.3	163.3	159.6	154.2	152.1	149.4
72.5°	189.9	178.5	167.1	158.9	151.6	147.0	140.7	137.0	134.7	133.8	131.2
75°	147.9	138.8	130.3	122.9	117.0	113.8	111.2	108.5	107.4	102.6	100.0
77.5°	107.9	101.9	96.6	91.3	87.1	85.0	79.9	76.8	75.0	72.8	72.2
80°	84.0	79.8	74.5	71.3	65.4	63.3	61.2	60.6	60.1	59.6	59.0
82.5°	63.2	58.9	53.6	51.7	50.1	48.8	47.5	47.0	46.5	46.8	46.7
85°	31.9	29.8	29.8	29.3	28.7	28.2	27.7	27.7	27.1	27.7	27.1
87.5°	14.5	14.7	15.2	14.9	15.9	16.4	16.4	16.8	17.6	17.2	17.4
90°	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2	39.2	41.2	42.6
92.5°	19.8	21.2	23.9	26.6	29.3	32.0	34.0	36.0	38.0	40.0	41.1
95°	37.4	31.8	32.2	32.5	32.8	33.2	35.2	37.2	39.2	41.2	42.4
97.5°	204.6	189.4	152.0	114.6	77.2	39.8	40.0	40.2	40.4	40.6	40.9
100°	271.4	251.3	205.1	158.8	112.6	66.4	60.7	55.0	49.3	43.6	40.9
102.5°	344.6	343.8	337.8	331.8	325.7	319.7	258.2	196.8	135.3	73.9	43.2
105°	462.0	463.8	465.5	467.2	468.8	470.5	473.5	476.5	479.6	482.6	478.0
107.5°	575.9	577.5	579.8	582.1	584.3	586.6	588.1	589.6	591.1	592.5	593.9
110°	655.5	657.0	659.0	661.0	663.0	665.0	665.7	666.4	667.1	667.7	668.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	735.9	737.3	738.2	739.2	740.1	741.1	740.9	740.8	740.6	740.5	741.1
115°	851.5	851.9	851.5	851.2	850.9	850.5	851.2	851.9	852.5	853.2	853.6
117.5°	960.0	961.0	961.7	962.5	963.2	963.9	963.8	963.7	963.5	963.4	963.3
120°	1032.3	1032.8	1032.5	1032.2	1031.8	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2
122.5°	1097.8	1098.4	1098.9	1099.3	1099.8	1100.3	1100.7	1101.1	1101.5	1101.9	1101.7
125°	1196.7	1197.0	1196.4	1195.7	1195.0	1194.4	1195.4	1196.4	1197.4	1198.4	1199.1
127.5°	1284.4	1285.3	1286.9	1288.4	1289.9	1291.5	1291.3	1291.1	1290.9	1290.7	1290.4
130°	1343.5	1344.2	1345.2	1346.2	1347.2	1348.2	1348.5	1348.9	1349.2	1349.5	1349.7
132.5°	1398.9	1399.8	1401.1	1402.3	1403.6	1404.9	1405.2	1405.6	1405.9	1406.2	1406.3
135°	1476.5	1477.0	1478.4	1479.7	1481.1	1482.4	1483.1	1483.7	1484.4	1485.1	1485.8
137.5°	1550.5	1551.3	1552.8	1554.3	1555.7	1557.2	1557.9	1558.7	1559.4	1560.2	1560.4
140°	1599.7	1600.4	1601.0	1601.7	1602.4	1603.0	1604.1	1605.1	1606.1	1607.1	1607.7
142.5°	1644.1	1644.9	1645.3	1645.7	1646.1	1646.5	1647.2	1648.0	1648.7	1649.4	1649.8
145°	1708.1	1708.6	1708.6	1708.6	1708.6	1708.6	1708.9	1709.3	1709.6	1709.9	1710.5
147.5°	1763.2	1763.9	1763.6	1763.3	1762.9	1762.6	1762.9	1763.1	1763.4	1763.7	1764.0
150°	1798.4	1798.9	1798.6	1798.3	1797.9	1797.6	1797.6	1797.6	1797.6	1797.6	1797.8
152.5°	1828.7	1829.0	1828.3	1827.7	1827.1	1826.5	1827.1	1827.6	1828.1	1828.7	1828.8
155°	1869.8	1869.5	1868.5	1867.5	1866.5	1865.4	1866.8	1868.1	1869.5	1870.8	1871.0
157.5°	1904.8	1904.1	1902.9	1901.8	1900.7	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5
160°	1923.3	1922.6	1922.2	1921.9	1921.6	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3
162.5°	1941.5	1940.7	1940.3	1940.0	1939.7	1939.3	1941.3	1943.4	1945.4	1947.4	1947.2
165°	1964.3	1963.5	1963.5	1963.5	1963.5	1963.5	1966.1	1968.8	1971.5	1974.2	1974.0
167.5°	1983.3	1982.4	1982.2	1982.0	1981.8	1981.6	1984.5	1987.5	1990.4	1993.4	1993.2
170°	1993.1	1992.3	1992.6	1993.0	1993.3	1993.6	1996.3	1999.0	2001.7	2004.4	2004.0
172.5°	2000.4	1999.5	1999.9	2000.2	2000.5	2000.9	2003.5	2006.2	2008.9	2011.6	2011.1
175°	2008.2	2007.4	2007.7	2008.0	2008.4	2008.7	2011.7	2014.7	2017.8	2020.8	2020.3
177.5°	2012.4	2011.7	2012.2	2012.8	2013.3	2013.8	2016.0	2018.1	2020.3	2022.4	2021.9
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1260.0	1260.9	1257.9	1257.0	1257.9	1260.9	1260.0	1262.6	1263.0	1266.4	1265.1
5°	1169.0	1167.9	1165.3	1165.8	1165.3	1167.9	1169.0	1173.2	1175.4	1183.9	1182.8
7.5°	1091.1	1087.0	1088.1	1083.9	1088.1	1087.0	1091.1	1094.9	1101.4	1105.3	1114.3
10°	1043.5	1037.6	1032.8	1028.6	1032.8	1037.6	1043.5	1045.6	1054.6	1058.9	1067.9
12.5°	978.4	973.4	966.9	968.2	966.9	973.4	978.4	987.7	999.3	1008.3	1022.4
15°	886.0	878.1	865.3	866.9	865.3	878.1	886.0	893.0	904.7	924.9	934.4
17.5°	807.9	808.0	802.1	803.5	802.1	808.0	807.9	817.3	823.3	836.2	850.8
20°	767.4	763.7	764.2	762.7	764.2	763.7	767.4	778.6	785.0	794.0	810.0
22.5°	739.4	734.8	731.1	727.8	731.1	734.8	739.4	742.4	751.0	759.6	772.5
25°	691.9	688.7	683.9	682.9	683.9	688.7	691.9	696.7	701.0	712.1	720.1
27.5°	650.2	649.6	647.7	645.2	647.7	649.6	650.2	654.5	660.0	667.1	677.2
30°	626.0	624.9	623.8	622.2	623.8	624.9	626.0	630.2	634.5	640.3	648.3
32.5°	604.3	603.6	602.6	602.7	602.6	603.6	604.3	606.4	609.0	616.5	622.8
35°	573.3	572.8	571.7	571.2	571.7	572.8	573.3	575.4	577.0	579.2	584.5
37.5°	544.4	545.8	545.1	545.0	545.1	545.8	544.4	544.9	543.2	547.0	550.7
40°	524.4	524.9	526.0	525.5	526.0	524.9	524.4	524.9	524.9	524.9	528.1
42.5°	507.8	507.9	509.4	507.6	509.4	507.9	507.8	505.8	503.2	503.6	504.7
45°	478.1	481.3	480.8	480.8	480.8	481.3	478.1	474.4	473.9	471.7	471.7
47.5°	445.7	448.4	449.2	449.1	449.2	448.4	445.7	444.3	441.9	439.7	439.5
50°	424.4	423.3	424.9	424.4	424.9	423.3	424.4	421.7	418.0	418.0	417.0
52.5°	398.5	398.7	398.6	398.0	398.6	398.7	398.5	397.1	395.5	393.8	393.1
55°	358.5	359.0	357.9	358.5	357.9	359.0	358.5	357.9	357.9	356.9	357.9
57.5°	315.1	312.5	313.6	312.3	313.6	312.5	315.1	317.4	318.3	318.5	320.1
60°	284.0	279.7	278.7	276.6	278.7	279.7	284.0	289.3	291.4	292.5	294.1
62.5°	249.1	246.1	242.5	244.2	242.5	246.1	249.1	254.9	259.5	263.2	266.9
65°	202.6	200.5	198.9	201.0	198.9	200.5	202.6	206.9	211.1	219.6	227.6
67.5°	167.7	166.6	166.6	165.5	166.6	166.6	167.7	169.9	172.5	177.2	184.7
70°	149.4	147.9	147.9	146.8	147.9	147.9	149.4	149.4	152.1	154.2	159.6
72.5°	130.7	129.1	129.6	128.9	129.6	129.1	130.7	131.2	133.8	134.7	137.0
75°	96.8	94.1	94.1	94.7	94.1	94.1	96.8	100.0	102.6	107.4	108.5
77.5°	72.2	71.7	72.4	71.5	72.4	71.7	72.2	72.2	72.8	75.0	76.8
80°	59.0	58.5	58.0	59.6	58.0	58.5	59.0	59.0	59.6	60.1	60.6
82.5°	45.8	45.7	45.6	47.7	45.6	45.7	45.8	46.7	46.8	46.5	47.0
85°	27.7	26.6	27.7	26.6	27.7	26.6	27.7	27.1	27.7	27.1	27.7
87.5°	18.4	18.1	17.8	18.4	17.8	18.1	18.4	17.4	17.2	17.6	16.8
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2
92.5°	41.2	41.4	41.5	41.6	41.5	41.4	41.2	41.1	40.0	38.0	36.0
95°	42.7	43.1	43.4	43.7	43.4	43.1	42.7	42.4	41.2	39.2	37.2
97.5°	41.2	41.6	41.9	42.2	41.9	41.6	41.2	40.9	40.6	40.4	40.2
100°	41.2	41.6	41.9	42.2	41.9	41.6	41.2	40.9	43.6	49.3	55.0
102.5°	43.2	43.3	43.4	43.4	43.4	43.3	43.2	43.2	73.9	135.3	196.8
105°	466.0	453.9	441.9	429.8	441.9	453.9	466.0	478.0	482.6	479.6	476.5
107.5°	595.2	596.4	597.7	599.0	597.7	596.4	595.2	593.9	592.5	591.1	589.6
110°	669.6	670.6	671.6	672.6	671.6	670.6	669.6	668.6	667.7	667.1	666.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	742.4	743.6	744.9	746.2	744.9	743.6	742.4	741.1	740.5	740.6	740.8
115°	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.2	852.5	851.9
117.5°	963.1	963.0	962.9	962.7	962.9	963.0	963.1	963.3	963.4	963.5	963.7
120°	1033.5	1032.8	1032.2	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2	1033.5	1032.8
122.5°	1101.1	1100.4	1099.7	1099.1	1099.7	1100.4	1101.1	1101.7	1101.9	1101.5	1101.1
125°	1199.4	1199.7	1200.1	1200.4	1200.1	1199.7	1199.4	1199.1	1198.4	1197.4	1196.4
127.5°	1290.2	1289.9	1289.6	1289.4	1289.6	1289.9	1290.2	1290.4	1290.7	1290.9	1291.1
130°	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.5	1349.2	1348.9
132.5°	1406.0	1405.7	1405.5	1405.2	1405.5	1405.7	1406.0	1406.3	1406.2	1405.9	1405.6
135°	1486.4	1487.1	1487.8	1488.4	1487.8	1487.1	1486.4	1485.8	1485.1	1484.4	1483.7
137.5°	1560.2	1560.0	1559.8	1559.6	1559.8	1560.0	1560.2	1560.4	1560.2	1559.4	1558.7
140°	1608.1	1608.4	1608.7	1609.1	1608.7	1608.4	1608.1	1607.7	1607.1	1606.1	1605.1
142.5°	1649.9	1650.0	1650.0	1650.1	1650.0	1650.0	1649.9	1649.8	1649.4	1648.7	1648.0
145°	1711.1	1711.8	1712.5	1713.1	1712.5	1711.8	1711.1	1710.5	1709.9	1709.6	1709.3
147.5°	1764.3	1764.6	1765.0	1765.3	1765.0	1764.6	1764.3	1764.0	1763.7	1763.4	1763.1
150°	1798.1	1798.4	1798.8	1799.1	1798.8	1798.4	1798.1	1797.8	1797.6	1797.6	1797.6
152.5°	1828.6	1828.4	1828.2	1828.0	1828.2	1828.4	1828.6	1828.8	1828.7	1828.1	1827.6
155°	1870.0	1869.0	1868.0	1867.0	1868.0	1869.0	1870.0	1871.0	1870.8	1869.5	1868.1
157.5°	1904.8	1903.0	1901.3	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5	1904.8	1903.0
160°	1927.3	1925.3	1923.3	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3	1927.3	1925.3
162.5°	1945.0	1942.7	1940.4	1938.1	1940.4	1942.7	1945.0	1947.2	1947.4	1945.4	1943.4
165°	1971.0	1968.0	1965.0	1962.0	1965.0	1968.0	1971.0	1974.0	1974.2	1971.5	1968.8
167.5°	1989.8	1986.5	1983.1	1979.8	1983.1	1986.5	1989.8	1993.2	1993.4	1990.4	1987.5
170°	2000.7	1997.3	1994.0	1990.6	1994.0	1997.3	2000.7	2004.0	2004.4	2001.7	1999.0
172.5°	2007.5	2003.9	2000.3	1996.6	2000.3	2003.9	2007.5	2011.1	2011.6	2008.9	2006.2
175°	2016.2	2012.2	2008.2	2004.2	2008.2	2012.2	2016.2	2020.3	2020.8	2017.8	2014.7
177.5°	2018.7	2015.4	2012.2	2009.0	2012.2	2015.4	2018.7	2021.9	2022.4	2020.3	2018.1
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1262.6	1265.6	1272.4	1280.0	1286.4	1291.9	1296.2	1302.1	1307.7	1315.3	1322.6
5°	1186.0	1193.4	1204.1	1216.8	1232.8	1243.4	1256.7	1268.4	1285.4	1302.5	1319.0
7.5°	1118.8	1127.0	1142.6	1160.3	1179.2	1196.6	1212.4	1233.0	1255.6	1280.3	1308.0
10°	1075.4	1084.4	1103.0	1123.2	1145.6	1162.6	1183.9	1208.3	1233.9	1264.2	1298.2
12.5°	1036.2	1044.8	1067.3	1087.9	1111.1	1129.8	1154.5	1179.4	1213.4	1246.3	1285.0
15°	960.0	982.8	1008.4	1032.8	1060.5	1083.4	1113.1	1138.7	1171.1	1217.4	1261.5
17.5°	875.3	899.7	931.4	969.1	1006.2	1034.5	1064.7	1096.4	1135.0	1182.3	1233.2
20°	825.9	845.6	880.7	922.7	965.8	1005.2	1032.8	1067.9	1107.8	1158.9	1211.5
22.5°	788.9	805.6	833.1	875.1	921.6	967.3	1002.6	1037.3	1081.4	1132.5	1189.8
25°	733.4	751.5	775.4	804.1	857.3	905.7	952.0	991.9	1038.7	1089.7	1153.6
27.5°	687.2	703.0	724.9	754.8	790.5	843.9	900.0	945.5	993.5	1048.3	1112.2
30°	660.0	672.8	690.9	721.2	755.2	803.1	860.0	913.2	961.6	1018.5	1084.9
32.5°	631.5	645.1	662.8	686.7	723.3	763.5	820.4	878.7	930.1	988.3	1053.5
35°	593.5	604.2	620.1	644.6	677.6	712.7	763.2	823.3	877.5	939.8	1002.0
37.5°	555.1	567.7	580.2	602.0	629.1	666.8	708.2	769.6	829.7	886.5	947.2
40°	533.4	540.9	554.7	572.3	601.0	634.5	673.3	733.4	793.5	849.9	911.0
42.5°	509.2	517.5	529.2	546.7	572.5	605.1	643.1	695.1	757.8	812.4	868.1
45°	475.5	480.2	491.9	506.8	528.1	561.1	596.2	642.5	701.5	753.6	802.5
47.5°	441.4	445.6	452.9	466.5	490.4	516.8	549.7	591.2	643.0	695.1	736.5
50°	418.0	421.7	428.7	441.4	462.7	488.8	521.2	558.4	604.7	654.7	689.3
52.5°	394.6	396.6	403.1	417.6	435.5	461.1	490.1	524.4	567.7	609.2	644.2
55°	357.4	362.2	366.4	377.1	394.1	418.6	444.6	477.1	510.6	545.7	575.4
57.5°	318.6	323.8	330.0	339.3	352.8	375.6	399.0	425.3	453.9	483.0	508.0
60°	293.0	297.8	303.1	313.8	326.0	344.1	369.6	392.5	414.3	440.9	465.9
62.5°	267.9	272.7	278.9	287.4	299.2	316.4	337.7	357.6	380.3	403.5	422.1
65°	230.8	234.5	239.3	247.3	258.5	273.9	291.4	306.9	327.1	344.1	361.1
67.5°	190.1	197.2	203.5	210.0	219.4	233.8	246.5	261.2	275.0	287.6	303.1
70°	163.3	171.3	177.1	184.0	193.1	205.3	217.5	227.6	238.8	251.0	264.9
72.5°	140.7	147.0	151.6	158.9	167.1	178.5	189.9	198.3	207.3	215.7	229.1
75°	111.2	113.8	117.0	122.9	130.3	138.8	147.9	155.3	160.6	168.1	177.6
77.5°	79.9	85.0	87.1	91.3	96.6	101.9	107.9	114.1	119.2	121.9	129.2
80°	61.2	63.3	65.4	71.3	74.5	79.8	84.0	89.9	92.0	94.7	101.6
82.5°	47.5	48.8	50.1	51.7	53.6	58.9	63.2	66.9	69.0	70.0	75.2
85°	27.7	28.2	28.7	29.3	29.8	29.8	31.9	34.6	38.3	38.3	39.9
87.5°	16.4	16.4	15.9	14.9	15.2	14.7	14.5	13.8	14.3	14.8	15.4
90°	35.2	33.2	30.5	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5
92.5°	34.0	32.0	29.3	26.6	23.9	21.2	19.8	19.6	19.4	19.2	19.0
95°	35.2	33.2	32.8	32.5	32.2	31.8	37.4	48.8	60.2	71.5	82.9
97.5°	40.0	39.8	77.2	114.6	152.0	189.4	204.6	197.5	190.3	183.2	176.1
100°	60.7	66.4	112.6	158.8	205.1	251.3	271.4	265.4	259.4	253.4	247.3
102.5°	258.2	319.7	325.7	331.8	337.8	343.8	344.6	340.2	335.8	331.4	326.9
105°	473.5	470.5	468.8	467.2	465.5	463.8	462.0	460.0	457.9	455.9	453.9
107.5°	588.1	586.6	584.3	582.1	579.8	577.5	575.9	574.9	573.9	572.9	571.8
110°	665.7	665.0	663.0	661.0	659.0	657.0	655.5	654.5	653.5	652.5	651.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.9	741.1	740.1	739.2	738.2	737.3	735.9	734.1	732.3	730.5	728.7
115°	851.2	850.5	850.9	851.2	851.5	851.9	851.5	850.5	849.5	848.5	847.5
117.5°	963.8	963.9	963.2	962.5	961.7	961.0	960.0	958.6	957.3	955.9	954.6
120°	1032.2	1031.5	1031.8	1032.2	1032.5	1032.8	1032.3	1031.0	1029.7	1028.3	1027.0
122.5°	1100.7	1100.3	1099.8	1099.3	1098.9	1098.4	1097.8	1096.9	1096.1	1095.3	1094.5
125°	1195.4	1194.4	1195.0	1195.7	1196.4	1197.0	1196.7	1195.4	1194.0	1192.7	1191.4
127.5°	1291.3	1291.5	1289.9	1288.4	1286.9	1285.3	1284.4	1284.0	1283.7	1283.4	1283.0
130°	1348.5	1348.2	1347.2	1346.2	1345.2	1344.2	1343.5	1343.2	1342.8	1342.5	1342.2
132.5°	1405.2	1404.9	1403.6	1402.3	1401.1	1399.8	1398.9	1398.3	1397.7	1397.0	1396.4
135°	1483.1	1482.4	1481.1	1479.7	1478.4	1477.0	1476.5	1476.9	1477.2	1477.5	1477.9
137.5°	1557.9	1557.2	1555.7	1554.3	1552.8	1551.3	1550.5	1550.4	1550.2	1550.1	1550.0
140°	1604.1	1603.0	1602.4	1601.7	1601.0	1600.4	1599.7	1599.0	1598.4	1597.7	1597.0
142.5°	1647.2	1646.5	1646.1	1645.7	1645.3	1644.9	1644.1	1642.9	1641.7	1640.4	1639.2
145°	1708.9	1708.6	1708.6	1708.6	1708.6	1708.6	1708.1	1707.1	1706.1	1705.1	1704.1
147.5°	1762.9	1762.6	1762.9	1763.3	1763.6	1763.9	1763.2	1761.3	1759.4	1757.5	1755.7
150°	1797.6	1797.6	1797.9	1798.3	1798.6	1798.9	1798.4	1797.1	1795.7	1794.4	1793.1
152.5°	1827.1	1826.5	1827.1	1827.7	1828.3	1829.0	1828.7	1827.6	1826.6	1825.5	1824.4
155°	1866.8	1865.4	1866.5	1867.5	1868.5	1869.5	1869.8	1869.5	1869.1	1868.8	1868.5
157.5°	1901.3	1899.5	1900.7	1901.8	1902.9	1904.1	1904.8	1905.0	1905.2	1905.4	1905.6
160°	1923.3	1921.2	1921.6	1921.9	1922.2	1922.6	1923.3	1924.3	1925.3	1926.3	1927.3
162.5°	1941.3	1939.3	1939.7	1940.0	1940.3	1940.7	1941.5	1942.8	1944.0	1945.3	1946.6
165°	1966.1	1963.5	1963.5	1963.5	1963.5	1963.5	1964.3	1966.0	1967.7	1969.3	1971.0
167.5°	1984.5	1981.6	1981.8	1982.0	1982.2	1982.4	1983.3	1985.1	1986.8	1988.6	1990.3
170°	1996.3	1993.6	1993.3	1993.0	1992.6	1992.3	1993.1	1995.1	1997.1	1999.2	2001.2
172.5°	2003.5	2000.9	2000.5	2000.2	1999.9	1999.5	2000.4	2002.4	2004.4	2006.4	2008.4
175°	2011.7	2008.7	2008.4	2008.0	2007.7	2007.4	2008.2	2010.2	2012.2	2014.2	2016.2
177.5°	2016.0	2013.8	2013.3	2012.8	2012.2	2011.7	2012.4	2014.2	2016.1	2018.0	2019.9
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1328.1	1331.9	1336.2	1344.3	1351.1	1354.1	1360.0	1364.3	1363.0	1368.9	1379.2
5°	1333.3	1347.7	1364.2	1381.2	1400.3	1416.3	1429.0	1441.8	1451.9	1464.1	1482.2
7.5°	1332.5	1358.0	1385.8	1416.3	1447.7	1474.8	1499.9	1525.4	1548.1	1572.9	1605.3
10°	1329.1	1363.1	1397.7	1437.6	1477.4	1515.2	1549.2	1581.2	1611.5	1643.9	1684.9
12.5°	1325.2	1364.4	1406.2	1454.1	1503.8	1549.2	1589.2	1635.2	1673.2	1715.0	1762.3
15°	1308.3	1361.0	1417.9	1480.1	1539.7	1600.8	1655.6	1712.0	1764.6	1814.6	1874.2
17.5°	1289.0	1349.7	1416.8	1490.3	1561.9	1636.2	1701.2	1772.3	1826.1	1893.2	1948.5
20°	1273.2	1338.6	1410.4	1492.9	1574.2	1656.7	1728.5	1800.8	1861.4	1929.0	1999.2
22.5°	1254.1	1325.9	1403.6	1489.0	1574.2	1664.3	1743.8	1815.7	1890.8	1966.8	2039.2
25°	1223.2	1297.7	1380.1	1473.7	1571.6	1663.6	1748.7	1838.0	1918.9	2001.3	2066.2
27.5°	1185.4	1263.5	1350.4	1447.0	1547.4	1641.7	1741.9	1837.1	1918.4	1997.8	2054.4
30°	1155.1	1237.6	1321.1	1418.9	1523.2	1624.2	1731.7	1826.9	1912.5	1983.8	2015.7
32.5°	1124.1	1202.3	1288.3	1387.5	1494.2	1603.0	1709.5	1806.9	1886.1	1928.9	1929.7
35°	1070.1	1143.4	1232.8	1330.1	1439.7	1557.8	1665.7	1761.4	1809.8	1813.6	1761.4
37.5°	1011.1	1078.5	1162.8	1260.2	1380.2	1497.7	1608.0	1671.8	1687.9	1633.8	1537.4
40°	969.0	1031.2	1112.6	1212.6	1331.7	1453.0	1553.5	1600.3	1583.3	1495.5	1388.1
42.5°	924.8	982.7	1061.1	1159.8	1279.4	1401.9	1487.5	1512.7	1467.6	1366.2	1240.5
45°	852.5	905.7	983.4	1082.8	1197.7	1312.6	1377.5	1364.7	1289.7	1169.5	1028.6
47.5°	777.3	828.7	898.6	990.6	1108.2	1207.4	1251.3	1212.8	1106.1	973.9	859.2
50°	727.6	780.2	844.6	932.3	1039.7	1135.5	1163.7	1105.2	986.6	859.4	754.1
52.5°	678.6	723.6	786.7	871.5	974.2	1055.1	1070.1	1002.6	880.2	766.3	672.9
55°	604.2	645.1	698.3	778.1	866.9	935.5	927.5	840.8	729.7	632.4	559.0
57.5°	532.2	563.0	612.1	686.9	764.9	810.9	781.8	707.9	604.3	524.6	462.7
60°	484.5	513.2	559.0	624.4	693.0	719.0	694.6	614.3	532.4	459.5	407.4
62.5°	439.4	464.7	504.1	564.8	620.2	635.7	609.5	539.4	465.6	403.3	360.2
65°	373.9	397.3	430.8	473.9	512.2	519.6	502.6	430.8	374.9	322.8	293.0
67.5°	314.4	329.7	355.9	393.1	413.5	417.8	384.9	339.8	290.6	258.6	236.1
70°	274.4	285.1	309.5	329.7	346.2	346.8	316.4	280.3	242.5	216.5	200.0
72.5°	235.7	245.9	264.4	278.3	290.9	286.8	259.0	230.5	200.0	180.3	168.1
75°	181.9	190.9	200.5	206.9	206.9	201.6	181.4	160.1	142.5	130.8	127.1
77.5°	132.2	139.7	142.9	141.9	140.0	131.7	118.9	105.0	98.7	93.2	90.4
80°	103.7	106.9	108.0	105.3	102.1	92.5	84.0	78.2	72.3	70.2	69.1
82.5°	76.9	79.7	76.9	77.6	70.6	62.8	58.1	56.1	53.6	52.8	51.7
85°	41.0	40.4	39.4	36.7	31.9	30.8	30.3	29.8	28.7	29.3	28.2
87.5°	15.7	15.1	14.2	14.5	15.1	14.8	15.8	16.3	16.8	16.8	18.1
90°	8.2	11.9	15.6	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2
92.5°	19.2	19.4	19.6	19.8	21.2	23.9	26.6	29.3	32.0	34.0	36.0
95°	71.5	60.2	48.8	37.4	31.8	32.2	32.5	32.8	33.2	35.2	37.2
97.5°	183.2	190.3	197.5	204.6	189.4	152.0	114.6	77.2	39.8	40.0	40.2
100°	253.4	259.4	265.4	271.4	251.3	205.1	158.8	112.6	66.4	60.7	55.0
102.5°	331.4	335.8	340.2	344.6	343.8	337.8	331.8	325.7	319.7	258.2	196.8
105°	455.9	457.9	460.0	462.0	463.8	465.5	467.2	468.8	470.5	473.5	476.5
107.5°	572.9	573.9	574.9	575.9	577.5	579.8	582.1	584.3	586.6	588.1	589.6
110°	652.5	653.5	654.5	655.5	657.0	659.0	661.0	663.0	665.0	665.7	666.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	730.5	732.3	734.1	735.9	737.3	738.2	739.2	740.1	741.1	740.9	740.8
115°	848.5	849.5	850.5	851.5	851.9	851.5	851.2	850.9	850.5	851.2	851.9
117.5°	955.9	957.3	958.6	960.0	961.0	961.7	962.5	963.2	963.9	963.8	963.7
120°	1028.3	1029.7	1031.0	1032.3	1032.8	1032.5	1032.2	1031.8	1031.5	1032.2	1032.8
122.5°	1095.3	1096.1	1096.9	1097.8	1098.4	1098.9	1099.3	1099.8	1100.3	1100.7	1101.1
125°	1192.7	1194.0	1195.4	1196.7	1197.0	1196.4	1195.7	1195.0	1194.4	1195.4	1196.4
127.5°	1283.4	1283.7	1284.0	1284.4	1285.3	1286.9	1288.4	1289.9	1291.5	1291.3	1291.1
130°	1342.5	1342.8	1343.2	1343.5	1344.2	1345.2	1346.2	1347.2	1348.2	1348.5	1348.9
132.5°	1397.0	1397.7	1398.3	1398.9	1399.8	1401.1	1402.3	1403.6	1404.9	1405.2	1405.6
135°	1477.5	1477.2	1476.9	1476.5	1477.0	1478.4	1479.7	1481.1	1482.4	1483.1	1483.7
137.5°	1550.1	1550.2	1550.4	1550.5	1551.3	1552.8	1554.3	1555.7	1557.2	1557.9	1558.7
140°	1597.7	1598.4	1599.0	1599.7	1600.4	1601.0	1601.7	1602.4	1603.0	1604.1	1605.1
142.5°	1640.4	1641.7	1642.9	1644.1	1644.9	1645.3	1645.7	1646.1	1646.5	1647.2	1648.0
145°	1705.1	1706.1	1707.1	1708.1	1708.6	1708.6	1708.6	1708.6	1708.6	1708.9	1709.3
147.5°	1757.5	1759.4	1761.3	1763.2	1763.9	1763.6	1763.3	1762.9	1762.6	1762.9	1763.1
150°	1794.4	1795.7	1797.1	1798.4	1798.9	1798.6	1798.3	1797.9	1797.6	1797.6	1797.6
152.5°	1825.5	1826.6	1827.6	1828.7	1829.0	1828.3	1827.7	1827.1	1826.5	1827.1	1827.6
155°	1868.8	1869.1	1869.5	1869.8	1869.5	1868.5	1867.5	1866.5	1865.4	1866.8	1868.1
157.5°	1905.4	1905.2	1905.0	1904.8	1904.1	1902.9	1901.8	1900.7	1899.5	1901.3	1903.0
160°	1926.3	1925.3	1924.3	1923.3	1922.6	1922.2	1921.9	1921.6	1921.2	1923.3	1925.3
162.5°	1945.3	1944.0	1942.8	1941.5	1940.7	1940.3	1940.0	1939.7	1939.3	1941.3	1943.4
165°	1969.3	1967.7	1966.0	1964.3	1963.5	1963.5	1963.5	1963.5	1963.5	1966.1	1968.8
167.5°	1988.6	1986.8	1985.1	1983.3	1982.4	1982.2	1982.0	1981.8	1981.6	1984.5	1987.5
170°	1999.2	1997.1	1995.1	1993.1	1992.3	1992.6	1993.0	1993.3	1993.6	1996.3	1999.0
172.5°	2006.4	2004.4	2002.4	2000.4	1999.5	1999.9	2000.2	2000.5	2000.9	2003.5	2006.2
175°	2014.2	2012.2	2010.2	2008.2	2007.4	2007.7	2008.0	2008.4	2008.7	2011.7	2014.7
177.5°	2018.0	2016.1	2014.2	2012.4	2011.7	2012.2	2012.8	2013.3	2013.8	2016.0	2018.1
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1384.7	1386.4	1387.7	1391.9	1392.3	1396.2	1392.3
5°	1499.2	1506.7	1518.4	1530.1	1531.2	1538.6	1525.3
7.5°	1627.7	1645.0	1655.7	1674.6	1682.1	1686.8	1679.1
10°	1716.2	1732.2	1760.4	1774.2	1788.0	1790.2	1783.8
12.5°	1801.8	1827.1	1849.3	1875.5	1874.8	1893.6	1886.7
15°	1915.7	1941.7	1972.6	2001.8	2012.5	2012.5	2021.0
17.5°	1996.9	2044.7	2076.6	2099.6	2124.7	2129.0	2126.1
20°	2051.8	2103.4	2137.5	2167.2	2184.3	2189.0	2189.0
22.5°	2092.7	2136.6	2169.8	2196.6	2210.6	2216.3	2214.6
25°	2121.0	2158.7	2178.9	2186.9	2190.6	2189.6	2179.5
27.5°	2082.2	2080.5	2067.8	2043.3	2024.9	2013.7	2001.0
30°	2008.2	1980.6	1948.7	1913.5	1868.3	1833.8	1823.1
32.5°	1898.0	1835.9	1781.9	1723.4	1674.8	1640.2	1625.7
35°	1684.9	1586.5	1506.2	1436.0	1384.9	1353.0	1342.4
37.5°	1431.9	1336.7	1237.3	1169.2	1126.9	1094.6	1082.6
40°	1271.1	1167.4	1080.7	1016.9	973.3	941.9	941.4
42.5°	1124.3	1025.3	943.7	897.7	850.7	830.0	829.9
45°	920.6	841.4	772.2	736.1	707.9	690.9	686.1
47.5°	762.2	696.7	650.6	621.8	598.8	588.0	581.0
50°	673.3	615.9	579.2	554.2	541.4	527.6	526.5
52.5°	599.3	552.9	524.3	504.0	487.8	479.5	479.7
55°	503.6	467.0	446.7	431.3	418.6	412.2	409.5
57.5°	424.3	396.8	382.1	367.9	362.5	357.5	356.1
60°	374.9	356.3	342.5	331.3	323.4	321.8	321.2
62.5°	334.1	314.6	305.1	296.4	290.6	288.1	287.2
65°	275.5	261.1	252.6	245.7	243.6	239.9	239.3
67.5°	222.1	213.5	207.8	203.1	200.2	200.0	200.0
70°	189.3	184.5	179.8	177.1	175.5	174.4	174.4
72.5°	161.3	157.7	153.8	152.4	152.1	151.0	150.6
75°	122.9	119.1	119.7	117.0	114.9	112.2	110.6
77.5°	87.1	84.5	83.9	83.6	81.8	81.5	82.3
80°	67.5	64.9	64.4	64.9	64.4	62.8	62.8
82.5°	51.4	49.1	48.6	48.3	47.8	48.3	47.4
85°	27.7	26.6	26.6	26.6	27.7	27.1	26.6
87.5°	17.6	17.6	18.3	18.0	18.1	17.8	18.4
90°	39.2	41.2	42.6	43.2	43.9	44.6	45.2
92.5°	38.0	40.0	41.1	41.2	41.4	41.5	41.6
95°	39.2	41.2	42.4	42.7	43.1	43.4	43.7
97.5°	40.4	40.6	40.9	41.2	41.6	41.9	42.2
100°	49.3	43.6	40.9	41.2	41.6	41.9	42.2
102.5°	135.3	73.9	43.2	43.2	43.3	43.4	43.4
105°	479.6	482.6	478.0	466.0	453.9	441.9	429.8
107.5°	591.1	592.5	593.9	595.2	596.4	597.7	599.0
110°	667.1	667.7	668.6	669.6	670.6	671.6	672.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	740.6	740.5	741.1	742.4	743.6	744.9	746.2
115°	852.5	853.2	853.6	853.6	853.6	853.6	853.6
117.5°	963.5	963.4	963.3	963.1	963.0	962.9	962.7
120°	1033.5	1034.2	1034.2	1033.5	1032.8	1032.2	1031.5
122.5°	1101.5	1101.9	1101.7	1101.1	1100.4	1099.7	1099.1
125°	1197.4	1198.4	1199.1	1199.4	1199.7	1200.1	1200.4
127.5°	1290.9	1290.7	1290.4	1290.2	1289.9	1289.6	1289.4
130°	1349.2	1349.5	1349.7	1349.7	1349.7	1349.7	1349.7
132.5°	1405.9	1406.2	1406.3	1406.0	1405.7	1405.5	1405.2
135°	1484.4	1485.1	1485.8	1486.4	1487.1	1487.8	1488.4
137.5°	1559.4	1560.2	1560.4	1560.2	1560.0	1559.8	1559.6
140°	1606.1	1607.1	1607.7	1608.1	1608.4	1608.7	1609.1
142.5°	1648.7	1649.4	1649.8	1649.9	1650.0	1650.0	1650.1
145°	1709.6	1709.9	1710.5	1711.1	1711.8	1712.5	1713.1
147.5°	1763.4	1763.7	1764.0	1764.3	1764.6	1765.0	1765.3
150°	1797.6	1797.6	1797.8	1798.1	1798.4	1798.8	1799.1
152.5°	1828.1	1828.7	1828.8	1828.6	1828.4	1828.2	1828.0
155°	1869.5	1870.8	1871.0	1870.0	1869.0	1868.0	1867.0
157.5°	1904.8	1906.5	1906.5	1904.8	1903.0	1901.3	1899.5
160°	1927.3	1929.3	1929.3	1927.3	1925.3	1923.3	1921.2
162.5°	1945.4	1947.4	1947.2	1945.0	1942.7	1940.4	1938.1
165°	1971.5	1974.2	1974.0	1971.0	1968.0	1965.0	1962.0
167.5°	1990.4	1993.4	1993.2	1989.8	1986.5	1983.1	1979.8
170°	2001.7	2004.4	2004.0	2000.7	1997.3	1994.0	1990.6
172.5°	2008.9	2011.6	2011.1	2007.5	2003.9	2000.3	1996.6
175°	2017.8	2020.8	2020.3	2016.2	2012.2	2008.2	2004.2
177.5°	2020.3	2022.4	2021.9	2018.7	2015.4	2012.2	2009.0
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2

(END OF REPORT)