

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: P332799-840

Luminaire Tested: **S124DIW-S795D1560U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332799-840
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: S124DIW-S795D1560U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9881.4 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

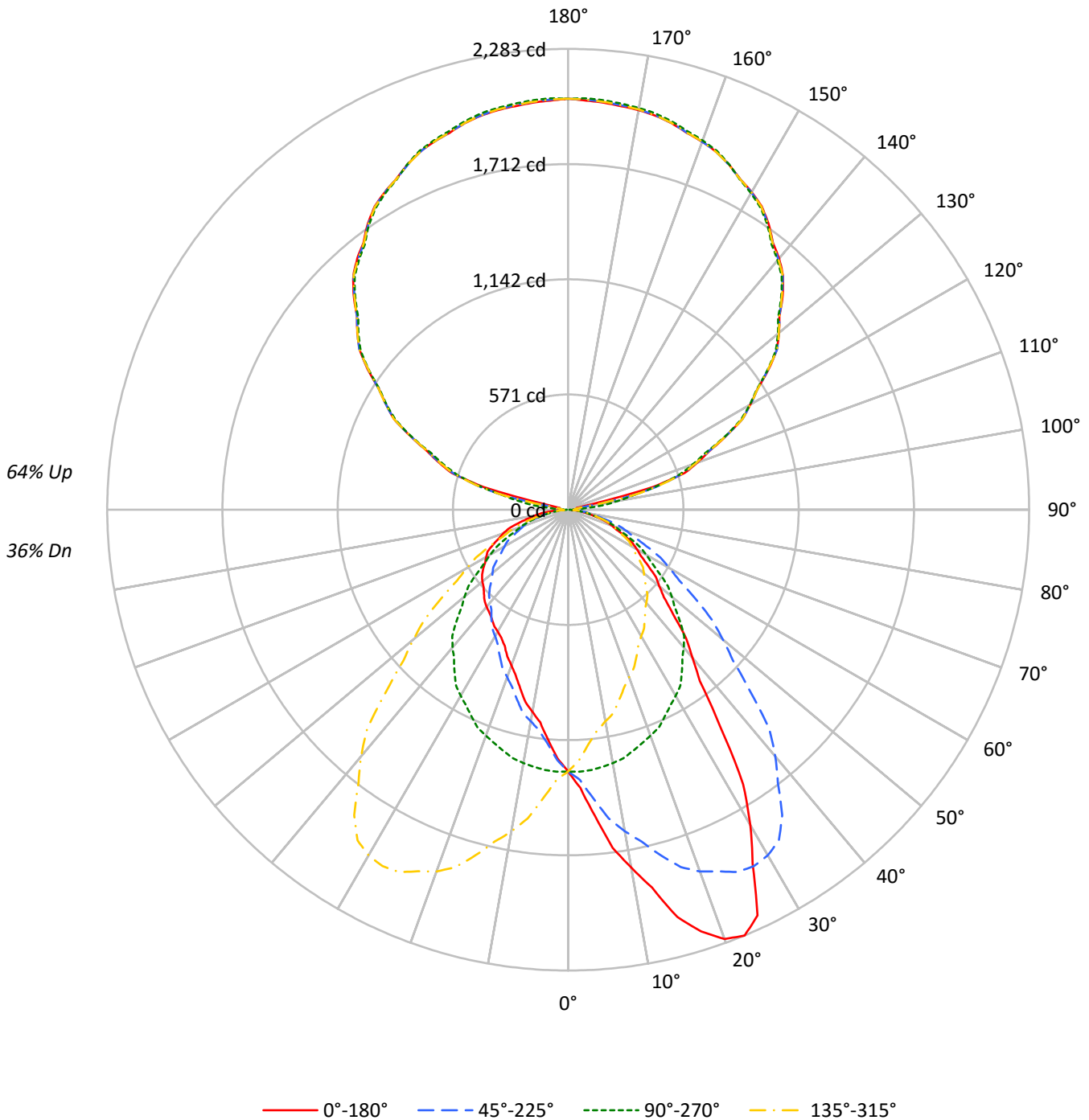
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	30	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	24	21	18	19	16	14	12
9	49	37	29	25	44	34	27	23	28	23	20	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10467	10467	10467	10467
5°	12327	10494	9263	10494
10°	14758	10449	8338	10449
15°	17462	10343	7658	10343
20°	19444	10234	7050	10234
25°	19759	10075	6631	10075
30°	16812	9923	6498	9923
35°	12925	9676	6500	9676
40°	10075	9385	6622	9385
45°	8401	8947	6734	8947
50°	7394	8411	6962	8411
55°	6773	7771	7241	7771
60°	6347	7198	7579	7198
65°	5908	6556	7859	6556
70°	5401	5922	8037	5922
75°	4825	5209	7941	5209
80°	4049	4268	7689	4268
85°	2983	3084	7364	3084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.3
10°-20°	389.3	3.9
20°-30°	617.4	6.2
30°-40°	687.1	7.0
40°-50°	625.4	6.3
50°-60°	511.1	5.2
60°-70°	364.8	3.7
70°-80°	200.9	2.0
80°-90°	60.7	0.6
90°-100°	69.6	0.7
100°-110°	444.0	4.5
110°-120°	849.4	8.6
120°-130°	1078.3	10.9
130°-140°	1153.7	11.7
140°-150°	1078.8	10.9
150°-160°	870.0	8.8
160°-170°	561.1	5.7
170°-180°	193.4	2.0
0°-30°	1133.0	11.5
0°-40°	1820.1	18.4
0°-60°	2956.5	29.9
0°-90°	3583.0	36.3
90°-120°	1363.1	13.8
90°-150°	4673.9	47.3
90°-180°	6298.0	63.7
0°-180°	9881.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1297	1297	1297	1297	1297	
5°	1521	1295	1143	1295	1521	155
15°	2089	1238	916	1238	2089	590
25°	2218	1131	744	1131	2218	978
35°	1312	982	660	982	1312	832
45°	736	784	590	784	736	580
55°	481	552	514	552	481	435
65°	309	343	411	343	309	306
75°	155	167	255	167	155	164
85°	32	33	80	33	32	40
90°	46	4	46	4	46	21
95°	44	84	44	84	44	35
105°	434	458	434	458	434	379
115°	862	856	862	856	862	853
125°	1212	1203	1212	1203	1212	1080
135°	1503	1492	1503	1492	1503	1157
145°	1730	1721	1730	1721	1730	1081
155°	1885	1887	1885	1887	1885	869
165°	1981	1990	1981	1990	1981	560
175°	2024	2036	2024	2036	2024	193
180°	2036	2036	2036	2036	2036	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1379.9	1379.5	1375.1	1374.3	1371.3	1367.5	1366.5	1359.7	1345.9	1339.5	1337.8
5°	1521.1	1531.8	1517.8	1515.1	1513.5	1495.8	1486.6	1475.9	1451.2	1436.7	1425.4
7.5°	1689.5	1690.7	1684.7	1679.7	1666.1	1650.5	1627.4	1602.7	1573.3	1542.6	1519.5
10°	1800.3	1804.6	1797.7	1796.5	1769.2	1752.0	1717.6	1688.6	1655.3	1618.2	1584.4
12.5°	1917.2	1911.2	1907.6	1884.6	1879.6	1848.3	1808.3	1778.4	1727.1	1684.5	1639.4
15°	2089.3	2077.5	2069.9	2038.2	2022.7	1979.1	1936.7	1904.0	1836.8	1772.9	1724.5
17.5°	2190.2	2202.0	2184.6	2171.6	2131.3	2100.8	2057.5	1988.7	1936.2	1856.8	1795.8
20°	2263.3	2264.3	2254.7	2241.3	2209.6	2170.9	2123.6	2048.4	1985.6	1906.6	1822.9
22.5°	2283.0	2283.3	2279.2	2266.6	2242.6	2211.3	2163.6	2100.8	2024.7	1938.8	1855.1
25°	2218.2	2216.0	2220.9	2234.8	2225.6	2216.0	2188.6	2141.9	2071.0	1980.2	1890.0
27.5°	1977.1	1992.0	2019.2	2053.6	2086.7	2111.9	2119.0	2109.4	2065.5	1990.8	1896.3
30°	1803.5	1821.8	1842.2	1876.5	1943.2	1981.4	2023.2	2054.9	2037.2	1977.5	1889.5
32.5°	1612.8	1617.3	1647.6	1686.7	1747.7	1821.1	1887.4	1951.8	1973.2	1941.9	1868.5
35°	1311.5	1319.1	1351.8	1390.5	1465.2	1554.9	1654.8	1743.9	1817.5	1847.0	1809.5
37.5°	1070.3	1091.9	1115.0	1156.6	1222.3	1303.0	1406.8	1522.2	1631.8	1705.4	1717.8
40°	956.0	969.5	986.1	1017.7	1073.6	1153.2	1242.2	1374.4	1491.0	1596.2	1630.6
42.5°	865.8	873.6	883.8	912.5	955.0	1034.1	1115.5	1231.7	1348.8	1474.6	1532.2
45°	735.8	743.9	761.0	777.7	809.9	864.7	940.4	1036.0	1153.7	1275.1	1381.4
47.5°	642.0	647.1	657.3	675.1	702.5	738.6	800.2	880.1	989.1	1106.9	1220.2
50°	588.7	592.9	601.0	617.1	638.0	670.2	720.7	795.5	880.8	999.6	1110.6
52.5°	546.5	548.3	554.2	565.1	581.8	608.8	650.3	712.1	791.4	897.3	1008.0
55°	481.2	483.4	488.8	496.9	511.3	528.5	560.2	606.3	675.7	767.5	863.6
57.5°	427.5	429.0	433.5	436.7	448.6	462.5	487.0	519.9	572.4	650.3	736.1
60°	393.1	392.0	397.5	400.1	408.2	420.0	438.8	470.5	516.1	579.0	657.9
62.5°	359.6	358.1	362.6	366.2	370.8	380.9	396.3	421.1	458.2	514.9	583.2
65°	309.3	307.2	309.9	314.2	318.5	323.9	335.2	357.2	386.7	427.5	479.6
67.5°	258.8	261.2	261.6	263.7	266.2	273.5	281.2	296.8	317.6	350.3	394.5
70°	228.8	229.3	231.5	231.5	233.1	239.5	246.0	255.1	275.5	305.6	341.5
72.5°	198.7	201.0	200.2	201.9	203.0	207.3	212.1	220.8	238.1	260.4	290.8
75°	154.7	156.3	156.3	156.8	158.4	160.1	163.8	170.3	182.6	199.2	220.3
77.5°	112.8	113.0	113.7	115.7	115.7	118.3	121.1	126.2	132.3	143.7	156.5
80°	87.1	88.1	87.6	88.7	88.7	90.8	91.8	98.3	101.0	108.5	118.7
82.5°	63.8	64.8	64.7	66.2	67.2	67.6	69.1	71.6	74.3	81.0	85.1
85°	32.2	33.3	32.2	33.3	34.9	35.4	37.1	37.6	39.8	41.4	45.1
87.5°	18.6	19.8	19.6	19.9	20.6	20.8	20.8	20.0	21.3	21.3	22.5
90°	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6	35.5	33.5	30.8
92.5°	42.0	41.9	41.8	41.6	41.5	40.4	38.4	36.4	34.3	32.3	29.6
95°	44.1	43.8	43.5	43.1	42.8	41.6	39.6	37.6	35.5	33.5	33.1
97.5°	42.6	42.3	42.0	41.6	41.3	41.0	40.8	40.6	40.4	40.2	78.0
100°	42.6	42.3	42.0	41.6	41.3	44.0	49.8	55.5	61.3	67.1	113.7
102.5°	43.8	43.8	43.7	43.6	43.6	74.6	136.6	198.7	260.7	322.9	328.9
105°	434.0	446.3	458.4	470.6	482.7	487.4	484.3	481.2	478.2	475.1	473.4
107.5°	604.9	603.6	602.3	601.1	599.8	598.3	596.9	595.4	593.9	592.4	590.1
110°	679.2	678.2	677.2	676.2	675.2	674.3	673.7	673.0	672.3	671.6	669.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	753.6	752.2	750.9	749.7	748.4	747.8	747.9	748.1	748.2	748.4	747.4
115°	862.0	862.0	862.0	862.0	862.0	861.6	860.9	860.3	859.6	858.9	859.3
117.5°	972.2	972.4	972.5	972.6	972.8	972.9	973.0	973.2	973.3	973.4	972.7
120°	1041.7	1042.4	1043.0	1043.7	1044.4	1044.4	1043.7	1043.0	1042.4	1041.7	1042.0
122.5°	1109.9	1110.5	1111.3	1112.0	1112.6	1112.8	1112.4	1112.0	1111.6	1111.2	1110.6
125°	1212.2	1211.9	1211.5	1211.2	1210.9	1210.2	1209.2	1208.2	1207.2	1206.2	1206.8
127.5°	1302.1	1302.3	1302.6	1302.9	1303.1	1303.4	1303.6	1303.8	1304.0	1304.2	1302.6
130°	1363.0	1363.0	1363.0	1363.0	1363.0	1362.8	1362.5	1362.2	1361.8	1361.5	1360.5
132.5°	1419.1	1419.4	1419.6	1419.9	1420.2	1420.1	1419.8	1419.5	1419.1	1418.8	1417.4
135°	1503.1	1502.5	1501.8	1501.1	1500.5	1499.8	1499.0	1498.3	1497.7	1497.0	1495.7
137.5°	1575.0	1575.2	1575.4	1575.6	1575.8	1575.6	1574.8	1574.1	1573.3	1572.6	1571.0
140°	1625.0	1624.6	1624.3	1624.0	1623.6	1623.0	1621.9	1620.9	1619.9	1618.8	1618.2
142.5°	1666.4	1666.3	1666.3	1666.2	1666.1	1665.7	1665.0	1664.3	1663.4	1662.7	1662.3
145°	1730.0	1729.4	1728.7	1728.0	1727.4	1726.8	1726.5	1726.2	1725.8	1725.5	1725.5
147.5°	1782.7	1782.4	1782.0	1781.7	1781.4	1781.1	1780.8	1780.5	1780.3	1780.0	1780.3
150°	1816.8	1816.5	1816.1	1815.8	1815.5	1815.3	1815.3	1815.3	1815.3	1815.3	1815.6
152.5°	1846.0	1846.2	1846.4	1846.6	1846.8	1846.7	1846.1	1845.6	1845.1	1844.5	1845.1
155°	1885.4	1886.4	1887.4	1888.4	1889.5	1889.3	1887.9	1886.5	1885.2	1883.8	1884.9
157.5°	1918.2	1920.1	1921.8	1923.6	1925.3	1925.3	1923.6	1921.8	1920.1	1918.2	1919.5
160°	1940.2	1942.3	1944.3	1946.3	1948.3	1948.3	1946.3	1944.3	1942.3	1940.2	1940.6
162.5°	1957.2	1959.5	1961.9	1964.2	1966.4	1966.6	1964.6	1962.6	1960.5	1958.4	1958.8
165°	1981.4	1984.4	1987.4	1990.4	1993.5	1993.7	1990.9	1988.2	1985.5	1982.9	1982.9
167.5°	1999.3	2002.7	2006.1	2009.4	2012.9	2013.1	2010.0	2007.1	2004.1	2001.1	2001.4
170°	2010.2	2013.7	2017.0	2020.4	2023.8	2024.2	2021.4	2018.7	2016.0	2013.3	2013.0
172.5°	2016.3	2020.0	2023.7	2027.3	2030.9	2031.4	2028.7	2026.0	2023.3	2020.6	2020.2
175°	2024.0	2028.0	2032.1	2036.1	2040.2	2040.7	2037.7	2034.6	2031.5	2028.5	2028.2
177.5°	2028.8	2032.1	2035.3	2038.6	2041.8	2042.4	2040.2	2038.0	2035.9	2033.7	2033.2
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1338.2	1332.2	1327.9	1324.4	1315.0	1309.4	1305.1	1299.1	1292.2	1285.0	1275.9
5°	1414.1	1395.8	1382.5	1362.0	1342.7	1326.6	1310.0	1294.9	1276.7	1256.8	1242.2
7.5°	1494.0	1466.8	1432.0	1401.8	1367.9	1338.3	1311.9	1284.9	1256.7	1229.4	1204.4
10°	1544.7	1509.7	1471.1	1425.4	1382.5	1344.3	1308.9	1274.6	1241.2	1207.9	1179.4
12.5°	1599.2	1555.7	1498.5	1445.2	1397.0	1346.0	1303.3	1261.2	1221.0	1186.0	1152.8
15°	1672.4	1609.6	1543.6	1472.2	1408.8	1349.2	1290.6	1237.5	1192.3	1146.1	1113.9
17.5°	1717.5	1639.7	1564.2	1489.6	1412.9	1337.7	1274.6	1213.2	1156.7	1110.8	1070.2
20°	1747.2	1669.8	1575.8	1501.2	1409.9	1332.5	1259.5	1191.2	1132.2	1083.3	1041.4
22.5°	1772.9	1683.5	1589.5	1491.3	1400.4	1318.4	1238.4	1169.7	1109.4	1057.9	1017.7
25°	1786.9	1684.3	1582.3	1484.5	1381.4	1284.1	1211.6	1131.1	1066.6	1012.4	969.5
27.5°	1788.4	1678.7	1563.3	1454.6	1348.2	1257.7	1166.1	1094.2	1027.2	969.9	928.6
30°	1783.6	1669.3	1545.2	1427.5	1320.7	1222.4	1143.0	1064.5	996.3	939.4	896.4
32.5°	1768.6	1649.5	1522.0	1397.5	1286.8	1190.6	1108.5	1034.0	967.6	911.4	866.4
35°	1725.2	1607.5	1471.6	1342.2	1228.8	1131.7	1057.5	981.8	915.2	862.0	818.5
37.5°	1657.1	1550.7	1412.6	1278.7	1167.4	1069.8	996.3	927.9	867.8	813.7	769.2
40°	1597.8	1504.4	1365.8	1235.3	1115.0	1022.1	953.3	890.5	830.9	779.8	737.4
42.5°	1529.5	1448.0	1320.3	1182.0	1066.0	972.7	905.6	849.2	793.0	745.9	703.5
45°	1407.7	1354.0	1233.7	1105.9	985.0	897.0	833.0	783.7	736.4	690.1	654.7
47.5°	1267.6	1241.0	1139.7	1018.3	903.6	816.8	761.3	715.7	674.3	635.2	603.9
50°	1173.6	1160.6	1073.1	956.0	846.5	764.8	708.9	669.7	634.3	600.0	570.4
52.5°	1080.8	1080.3	1001.4	894.1	792.7	714.1	658.6	622.1	591.4	563.4	536.8
55°	938.9	953.8	892.1	796.5	705.7	634.8	584.9	552.1	530.7	507.6	487.7
57.5°	808.5	833.4	782.5	698.3	622.6	557.2	513.8	489.2	466.3	452.3	437.9
60°	723.5	747.1	707.3	636.4	565.0	509.2	467.8	445.8	425.9	416.3	406.1
62.5°	647.8	668.9	639.4	573.7	511.7	458.1	423.1	401.9	388.5	378.0	371.2
65°	539.8	557.4	532.3	484.4	431.3	388.3	359.8	343.2	330.3	326.0	318.5
67.5°	436.4	452.4	438.8	398.2	355.6	323.0	300.7	284.8	277.1	273.4	268.0
70°	374.9	391.0	376.5	341.0	308.3	280.9	259.9	250.9	242.8	241.2	233.6
72.5°	322.9	333.9	319.3	291.6	263.6	240.5	224.3	214.7	210.6	207.6	203.6
75°	242.3	251.9	242.3	220.8	200.9	184.8	170.8	167.0	162.2	160.6	157.9
77.5°	171.5	179.9	172.4	159.0	144.1	131.7	124.2	119.4	118.3	115.4	116.7
80°	131.1	136.4	129.5	120.3	108.5	99.9	94.5	91.8	88.7	87.6	89.7
82.5°	94.1	96.4	92.9	86.7	78.0	72.4	68.8	65.6	65.0	65.2	65.2
85°	48.9	48.4	47.8	42.4	39.8	36.0	33.8	33.3	32.7	33.8	34.9
87.5°	21.9	21.8	20.9	18.5	16.5	14.4	13.2	12.1	13.2	14.4	15.7
90°	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5	8.3	12.0	15.8
92.5°	26.9	24.1	21.4	20.0	19.8	19.6	19.4	19.2	19.4	19.6	19.8
95°	32.8	32.5	32.1	37.8	49.3	60.8	72.2	83.7	72.2	60.8	49.3
97.5°	115.7	153.5	191.3	206.6	199.4	192.2	185.0	177.8	185.0	192.2	199.4
100°	160.4	207.1	253.8	274.1	268.0	262.0	255.9	249.7	255.9	262.0	268.0
102.5°	335.1	341.1	347.2	348.0	343.6	339.1	334.7	330.1	334.7	339.1	343.6
105°	471.8	470.1	468.4	466.6	464.5	462.4	460.4	458.4	460.4	462.4	464.5
107.5°	587.8	585.5	583.2	581.6	580.6	579.6	578.6	577.4	578.6	579.6	580.6
110°	667.5	665.5	663.5	662.0	661.0	659.9	658.9	657.9	658.9	659.9	661.0



TEST NUMBER: P332799-840

CATALOG NUMBER: S124DIW-S795D1560U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	746.5	745.5	744.6	743.2	741.3	739.5	737.7	735.9	737.7	739.5	741.3
115°	859.6	859.9	860.3	859.9	858.9	857.9	856.9	855.9	856.9	857.9	858.9
117.5°	972.0	971.2	970.5	969.5	968.1	966.7	965.3	964.0	965.3	966.7	968.1
120°	1042.4	1042.7	1043.0	1042.5	1041.2	1039.9	1038.4	1037.1	1038.4	1039.9	1041.2
122.5°	1110.1	1109.7	1109.2	1108.6	1107.7	1106.9	1106.1	1105.3	1106.1	1106.9	1107.7
125°	1207.5	1208.2	1208.8	1208.5	1207.2	1205.8	1204.5	1203.2	1204.5	1205.8	1207.2
127.5°	1301.1	1299.6	1298.0	1297.1	1296.7	1296.4	1296.1	1295.7	1296.1	1296.4	1296.7
130°	1359.5	1358.5	1357.5	1356.8	1356.5	1356.0	1355.7	1355.4	1355.7	1356.0	1356.5
132.5°	1416.1	1414.9	1413.6	1412.7	1412.1	1411.5	1410.8	1410.2	1410.8	1411.5	1412.1
135°	1494.3	1493.0	1491.6	1491.1	1491.5	1491.8	1492.1	1492.5	1492.1	1491.8	1491.5
137.5°	1569.6	1568.1	1566.6	1565.8	1565.7	1565.5	1565.4	1565.3	1565.4	1565.5	1565.7
140°	1617.5	1616.8	1616.2	1615.5	1614.8	1614.2	1613.5	1612.8	1613.5	1614.2	1614.8
142.5°	1661.9	1661.5	1661.1	1660.3	1659.1	1657.9	1656.6	1655.4	1656.6	1657.9	1659.1
145°	1725.5	1725.5	1725.5	1725.0	1723.9	1722.9	1721.9	1720.9	1721.9	1722.9	1723.9
147.5°	1780.7	1781.0	1781.3	1780.6	1778.7	1776.8	1774.8	1773.0	1774.8	1776.8	1778.7
150°	1816.0	1816.3	1816.6	1816.1	1814.8	1813.4	1812.1	1810.8	1812.1	1813.4	1814.8
152.5°	1845.7	1846.3	1847.0	1846.7	1845.6	1844.6	1843.5	1842.4	1843.5	1844.6	1845.6
155°	1885.9	1886.9	1887.9	1888.2	1887.9	1887.5	1887.2	1886.9	1887.2	1887.5	1887.9
157.5°	1920.6	1921.7	1922.9	1923.6	1923.8	1924.0	1924.2	1924.4	1924.2	1924.0	1923.8
160°	1940.9	1941.2	1941.6	1942.3	1943.3	1944.3	1945.3	1946.3	1945.3	1944.3	1943.3
162.5°	1959.1	1959.4	1959.8	1960.7	1962.0	1963.2	1964.5	1965.8	1964.5	1963.2	1962.0
165°	1982.9	1982.9	1982.9	1983.7	1985.4	1987.1	1988.7	1990.4	1988.7	1987.1	1985.4
167.5°	2001.6	2001.8	2002.0	2002.9	2004.7	2006.4	2008.2	2009.9	2008.2	2006.4	2004.7
170°	2012.7	2012.3	2012.0	2012.8	2014.8	2016.8	2018.9	2020.9	2018.9	2016.8	2014.8
172.5°	2019.9	2019.6	2019.2	2020.1	2022.2	2024.2	2026.2	2028.2	2026.2	2024.2	2022.2
175°	2027.8	2027.5	2027.2	2028.0	2030.0	2032.1	2034.1	2036.1	2034.1	2032.1	2030.0
177.5°	2032.7	2032.1	2031.5	2032.3	2034.1	2036.0	2037.9	2039.8	2037.9	2036.0	2034.1
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



TEST NUMBER: P332799-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1271.6	1267.8	1262.1	1254.5	1248.0	1241.1	1239.4	1236.8	1241.9	1237.7	1236.4
5°	1229.9	1218.6	1204.2	1187.5	1177.8	1163.9	1161.1	1155.8	1150.4	1149.9	1144.5
7.5°	1185.8	1169.2	1150.2	1133.3	1117.5	1102.3	1092.4	1090.1	1082.3	1077.6	1072.3
10°	1157.4	1137.0	1115.0	1098.8	1080.7	1064.5	1053.2	1046.8	1041.4	1035.5	1030.2
12.5°	1123.9	1102.2	1084.1	1066.6	1044.9	1032.7	1014.1	1003.0	1001.9	1002.0	988.1
15°	1084.9	1063.4	1035.5	1010.8	999.0	975.3	965.1	952.2	944.2	936.1	929.7
17.5°	1040.4	1013.6	991.8	963.4	940.9	922.1	908.7	900.9	888.8	877.4	869.1
20°	1012.4	983.9	960.9	930.8	906.1	882.9	871.7	860.9	851.8	842.1	833.0
22.5°	984.0	954.3	926.0	896.9	873.8	849.5	838.6	823.9	815.3	809.9	800.8
25°	939.4	907.2	874.9	847.0	823.3	801.8	787.4	776.1	766.4	762.1	756.2
27.5°	890.8	858.8	827.7	796.0	769.1	753.6	741.9	733.5	727.8	722.2	719.5
30°	859.9	826.6	793.2	763.8	739.0	723.5	712.7	706.8	702.5	699.8	697.1
32.5°	828.5	795.7	760.6	733.7	711.6	697.7	689.5	683.6	681.5	680.4	679.5
35°	778.2	745.0	712.7	688.5	667.6	662.3	655.2	652.1	651.0	654.7	656.3
37.5°	729.5	698.6	669.0	645.6	631.9	624.0	621.6	621.8	625.6	628.9	632.8
40°	698.2	668.1	640.3	619.8	606.9	602.1	601.0	603.7	607.9	611.8	616.0
42.5°	667.7	638.0	612.7	593.6	584.6	580.2	580.8	583.5	589.5	594.1	600.6
45°	620.4	595.6	570.9	555.3	547.9	548.9	548.9	553.7	559.7	566.6	573.6
47.5°	575.7	550.9	530.5	517.5	513.5	512.6	515.6	521.9	530.4	539.1	548.8
50°	545.6	522.0	504.3	492.5	488.2	489.8	494.1	500.0	510.2	521.0	531.2
52.5°	515.1	493.7	477.3	466.3	463.3	466.2	470.5	479.8	488.8	500.4	512.7
55°	467.8	449.5	436.7	428.6	427.5	429.1	433.9	444.1	457.1	471.6	483.4
57.5°	420.6	405.4	393.5	388.0	388.5	390.0	398.0	410.1	423.8	439.3	454.5
60°	388.9	374.9	365.3	360.9	361.4	364.7	374.4	385.7	402.8	417.9	433.9
62.5°	358.8	346.5	337.3	333.5	332.6	339.7	349.0	360.7	377.9	394.7	412.0
65°	310.4	300.7	293.3	291.1	292.8	298.1	309.9	325.5	340.0	357.7	376.0
67.5°	263.2	255.2	250.0	251.1	253.0	260.9	270.8	284.2	300.6	319.0	337.1
70°	233.1	225.6	221.3	221.8	225.0	234.7	243.3	256.7	274.5	293.3	308.3
72.5°	202.2	197.2	193.4	195.6	198.8	205.5	216.2	229.6	245.2	262.8	278.6
75°	155.2	155.2	153.1	154.7	159.6	165.9	174.0	187.9	203.6	217.5	230.5
77.5°	115.1	114.0	115.3	117.3	120.1	127.7	136.9	146.9	158.6	172.6	183.3
80°	88.1	88.7	91.3	94.5	95.6	101.5	111.2	120.3	129.5	141.3	151.5
82.5°	66.1	66.8	68.1	72.2	73.2	79.6	85.8	94.9	103.2	111.2	119.7
85°	36.0	36.0	38.7	40.3	42.9	47.3	51.0	56.4	63.9	69.3	77.4
87.5°	17.7	18.3	20.5	21.9	23.7	26.5	27.8	32.8	34.9	37.6	41.7
90°	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6	39.6	41.6	43.0
92.5°	20.0	21.4	24.1	26.9	29.6	32.3	34.3	36.4	38.4	40.4	41.5
95°	37.8	32.1	32.5	32.8	33.1	33.5	35.5	37.6	39.6	41.6	42.8
97.5°	206.6	191.3	153.5	115.7	78.0	40.2	40.4	40.6	40.8	41.0	41.3
100°	274.1	253.8	207.1	160.4	113.7	67.1	61.3	55.5	49.8	44.0	41.3
102.5°	348.0	347.2	341.1	335.1	328.9	322.9	260.7	198.7	136.6	74.6	43.6
105°	466.6	468.4	470.1	471.8	473.4	475.1	478.2	481.2	484.3	487.4	482.7
107.5°	581.6	583.2	585.5	587.8	590.1	592.4	593.9	595.4	596.9	598.3	599.8
110°	662.0	663.5	665.5	667.5	669.5	671.6	672.3	673.0	673.7	674.3	675.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	743.2	744.6	745.5	746.5	747.4	748.4	748.2	748.1	747.9	747.8	748.4
115°	859.9	860.3	859.9	859.6	859.3	858.9	859.6	860.3	860.9	861.6	862.0
117.5°	969.5	970.5	971.2	972.0	972.7	973.4	973.3	973.2	973.0	972.9	972.8
120°	1042.5	1043.0	1042.7	1042.4	1042.0	1041.7	1042.4	1043.0	1043.7	1044.4	1044.4
122.5°	1108.6	1109.2	1109.7	1110.1	1110.6	1111.2	1111.6	1112.0	1112.4	1112.8	1112.6
125°	1208.5	1208.8	1208.2	1207.5	1206.8	1206.2	1207.2	1208.2	1209.2	1210.2	1210.9
127.5°	1297.1	1298.0	1299.6	1301.1	1302.6	1304.2	1304.0	1303.8	1303.6	1303.4	1303.1
130°	1356.8	1357.5	1358.5	1359.5	1360.5	1361.5	1361.8	1362.2	1362.5	1362.8	1363.0
132.5°	1412.7	1413.6	1414.9	1416.1	1417.4	1418.8	1419.1	1419.5	1419.8	1420.1	1420.2
135°	1491.1	1491.6	1493.0	1494.3	1495.7	1497.0	1497.7	1498.3	1499.0	1499.8	1500.5
137.5°	1565.8	1566.6	1568.1	1569.6	1571.0	1572.6	1573.3	1574.1	1574.8	1575.6	1575.8
140°	1615.5	1616.2	1616.8	1617.5	1618.2	1618.8	1619.9	1620.9	1621.9	1623.0	1623.6
142.5°	1660.3	1661.1	1661.5	1661.9	1662.3	1662.7	1663.4	1664.3	1665.0	1665.7	1666.1
145°	1725.0	1725.5	1725.5	1725.5	1725.5	1725.5	1725.8	1726.2	1726.5	1726.8	1727.4
147.5°	1780.6	1781.3	1781.0	1780.7	1780.3	1780.0	1780.3	1780.5	1780.8	1781.1	1781.4
150°	1816.1	1816.6	1816.3	1816.0	1815.6	1815.3	1815.3	1815.3	1815.3	1815.3	1815.5
152.5°	1846.7	1847.0	1846.3	1845.7	1845.1	1844.5	1845.1	1845.6	1846.1	1846.7	1846.8
155°	1888.2	1887.9	1886.9	1885.9	1884.9	1883.8	1885.2	1886.5	1887.9	1889.3	1889.5
157.5°	1923.6	1922.9	1921.7	1920.6	1919.5	1918.2	1920.1	1921.8	1923.6	1925.3	1925.3
160°	1942.3	1941.6	1941.2	1940.9	1940.6	1940.2	1942.3	1944.3	1946.3	1948.3	1948.3
162.5°	1960.7	1959.8	1959.4	1959.1	1958.8	1958.4	1960.5	1962.6	1964.6	1966.6	1966.4
165°	1983.7	1982.9	1982.9	1982.9	1982.9	1982.9	1985.5	1988.2	1990.9	1993.7	1993.5
167.5°	2002.9	2002.0	2001.8	2001.6	2001.4	2001.1	2004.1	2007.1	2010.0	2013.1	2012.9
170°	2012.8	2012.0	2012.3	2012.7	2013.0	2013.3	2016.0	2018.7	2021.4	2024.2	2023.8
172.5°	2020.1	2019.2	2019.6	2019.9	2020.2	2020.6	2023.3	2026.0	2028.7	2031.4	2030.9
175°	2028.0	2027.2	2027.5	2027.8	2028.2	2028.5	2031.5	2034.6	2037.7	2040.7	2040.2
177.5°	2032.3	2031.5	2032.1	2032.7	2033.2	2033.7	2035.9	2038.0	2040.2	2042.4	2041.8
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



TEST NUMBER: P332799-840

CATALOG NUMBER: S124DIW-S795D1560U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1235.5	1234.7	1231.6	1231.2	1231.6	1234.7	1235.5	1236.4	1237.7	1241.9	1236.8
5°	1141.3	1138.6	1137.0	1143.0	1137.0	1138.6	1141.3	1144.5	1149.9	1150.4	1155.8
7.5°	1070.3	1068.1	1063.4	1062.0	1063.4	1068.1	1070.3	1072.3	1077.6	1082.3	1090.1
10°	1024.7	1022.6	1018.3	1017.2	1018.3	1022.6	1024.7	1030.2	1035.5	1041.4	1046.8
12.5°	980.9	976.6	975.7	976.8	975.7	976.6	980.9	988.1	1002.0	1001.9	1003.0
15°	922.7	920.6	914.6	916.3	914.6	920.6	922.7	929.7	936.1	944.2	952.2
17.5°	865.4	862.7	855.6	861.9	855.6	862.7	865.4	869.1	877.4	888.8	900.9
20°	829.3	825.0	821.2	820.6	821.2	825.0	829.3	833.0	842.1	851.8	860.9
22.5°	794.9	791.0	790.7	787.2	790.7	791.0	794.9	800.8	809.9	815.3	823.9
25°	751.9	748.2	747.1	744.4	747.1	748.2	751.9	756.2	762.1	766.4	776.1
27.5°	718.9	717.1	715.2	716.0	715.2	717.1	718.9	719.5	722.2	727.8	733.5
30°	698.7	698.2	697.1	697.1	697.1	698.2	698.7	697.1	699.8	702.5	706.8
32.5°	682.0	681.9	682.6	682.6	682.6	681.9	682.0	679.5	680.4	681.5	683.6
35°	658.4	660.0	661.2	659.5	661.2	660.0	658.4	656.3	654.7	651.0	652.1
37.5°	637.2	638.8	640.4	642.2	640.4	638.8	637.2	632.8	628.9	625.6	621.8
40°	620.9	624.6	625.7	628.4	625.7	624.6	620.9	616.0	611.8	607.9	603.7
42.5°	605.4	609.6	612.4	612.9	612.4	609.6	605.4	600.6	594.1	589.5	583.5
45°	581.7	585.9	589.8	589.8	589.8	585.9	581.7	573.6	566.6	559.7	553.7
47.5°	557.0	563.3	567.0	568.0	567.0	563.3	557.0	548.8	539.1	530.4	521.9
50°	540.3	547.9	551.6	554.3	551.6	547.9	540.3	531.2	521.0	510.2	500.0
52.5°	524.0	531.5	536.5	538.0	536.5	531.5	524.0	512.7	500.4	488.8	479.8
55°	495.7	506.4	512.4	514.5	512.4	506.4	495.7	483.4	471.6	457.1	444.1
57.5°	469.1	479.0	485.8	487.5	485.8	479.0	469.1	454.5	439.3	423.8	410.1
60°	448.5	459.2	467.8	469.4	467.8	459.2	448.5	433.9	417.9	402.8	385.7
62.5°	427.4	438.6	446.4	450.5	446.4	438.6	427.4	412.0	394.7	377.9	360.7
65°	391.0	402.2	409.8	411.4	409.8	402.2	391.0	376.0	357.7	340.0	325.5
67.5°	351.2	362.5	367.5	370.6	367.5	362.5	351.2	337.1	319.0	300.6	284.2
70°	323.4	332.4	337.8	340.5	337.8	332.4	323.4	308.3	293.3	274.5	256.7
72.5°	291.5	301.0	307.3	307.8	307.3	301.0	291.5	278.6	262.8	245.2	229.6
75°	242.8	251.4	254.6	254.6	254.6	251.4	242.8	230.5	217.5	203.6	187.9
77.5°	192.2	196.6	200.7	201.5	200.7	196.6	192.2	183.3	172.6	158.6	146.9
80°	159.6	162.2	165.4	165.4	165.4	162.2	159.6	151.5	141.3	129.5	120.3
82.5°	126.0	128.3	131.5	131.1	131.5	128.3	126.0	119.7	111.2	103.2	94.9
85°	76.2	81.1	80.6	79.5	80.6	81.1	76.2	77.4	69.3	63.9	56.4
87.5°	43.1	43.6	45.1	46.0	45.1	43.6	43.1	41.7	37.6	34.9	32.8
90°	43.6	44.3	45.0	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6
92.5°	41.6	41.8	41.9	42.0	41.9	41.8	41.6	41.5	40.4	38.4	36.4
95°	43.1	43.5	43.8	44.1	43.8	43.5	43.1	42.8	41.6	39.6	37.6
97.5°	41.6	42.0	42.3	42.6	42.3	42.0	41.6	41.3	41.0	40.8	40.6
100°	41.6	42.0	42.3	42.6	42.3	42.0	41.6	41.3	44.0	49.8	55.5
102.5°	43.6	43.7	43.8	43.8	43.8	43.7	43.6	43.6	74.6	136.6	198.7
105°	470.6	458.4	446.3	434.0	446.3	458.4	470.6	482.7	487.4	484.3	481.2
107.5°	601.1	602.3	603.6	604.9	603.6	602.3	601.1	599.8	598.3	596.9	595.4
110°	676.2	677.2	678.2	679.2	678.2	677.2	676.2	675.2	674.3	673.7	673.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	749.7	750.9	752.2	753.6	752.2	750.9	749.7	748.4	747.8	747.9	748.1
115°	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	861.6	860.9	860.3
117.5°	972.6	972.5	972.4	972.2	972.4	972.5	972.6	972.8	972.9	973.0	973.2
120°	1043.7	1043.0	1042.4	1041.7	1042.4	1043.0	1043.7	1044.4	1044.4	1043.7	1043.0
122.5°	1112.0	1111.3	1110.5	1109.9	1110.5	1111.3	1112.0	1112.6	1112.8	1112.4	1112.0
125°	1211.2	1211.5	1211.9	1212.2	1211.9	1211.5	1211.2	1210.9	1210.2	1209.2	1208.2
127.5°	1302.9	1302.6	1302.3	1302.1	1302.3	1302.6	1302.9	1303.1	1303.4	1303.6	1303.8
130°	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1362.8	1362.5	1362.2
132.5°	1419.9	1419.6	1419.4	1419.1	1419.4	1419.6	1419.9	1420.2	1420.1	1419.8	1419.5
135°	1501.1	1501.8	1502.5	1503.1	1502.5	1501.8	1501.1	1500.5	1499.8	1499.0	1498.3
137.5°	1575.6	1575.4	1575.2	1575.0	1575.2	1575.4	1575.6	1575.8	1575.6	1574.8	1574.1
140°	1624.0	1624.3	1624.6	1625.0	1624.6	1624.3	1624.0	1623.6	1623.0	1621.9	1620.9
142.5°	1666.2	1666.3	1666.3	1666.4	1666.3	1666.3	1666.2	1666.1	1665.7	1665.0	1664.3
145°	1728.0	1728.7	1729.4	1730.0	1729.4	1728.7	1728.0	1727.4	1726.8	1726.5	1726.2
147.5°	1781.7	1782.0	1782.4	1782.7	1782.4	1782.0	1781.7	1781.4	1781.1	1780.8	1780.5
150°	1815.8	1816.1	1816.5	1816.8	1816.5	1816.1	1815.8	1815.5	1815.3	1815.3	1815.3
152.5°	1846.6	1846.4	1846.2	1846.0	1846.2	1846.4	1846.6	1846.8	1846.7	1846.1	1845.6
155°	1888.4	1887.4	1886.4	1885.4	1886.4	1887.4	1888.4	1889.5	1889.3	1887.9	1886.5
157.5°	1923.6	1921.8	1920.1	1918.2	1920.1	1921.8	1923.6	1925.3	1925.3	1923.6	1921.8
160°	1946.3	1944.3	1942.3	1940.2	1942.3	1944.3	1946.3	1948.3	1948.3	1946.3	1944.3
162.5°	1964.2	1961.9	1959.5	1957.2	1959.5	1961.9	1964.2	1966.4	1966.6	1964.6	1962.6
165°	1990.4	1987.4	1984.4	1981.4	1984.4	1987.4	1990.4	1993.5	1993.7	1990.9	1988.2
167.5°	2009.4	2006.1	2002.7	1999.3	2002.7	2006.1	2009.4	2012.9	2013.1	2010.0	2007.1
170°	2020.4	2017.0	2013.7	2010.2	2013.7	2017.0	2020.4	2023.8	2024.2	2021.4	2018.7
172.5°	2027.3	2023.7	2020.0	2016.3	2020.0	2023.7	2027.3	2030.9	2031.4	2028.7	2026.0
175°	2036.1	2032.1	2028.0	2024.0	2028.0	2032.1	2036.1	2040.2	2040.7	2037.7	2034.6
177.5°	2038.6	2035.3	2032.1	2028.8	2032.1	2035.3	2038.6	2041.8	2042.4	2040.2	2038.0
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1239.4	1241.1	1248.0	1254.5	1262.1	1267.8	1271.6	1275.9	1285.0	1292.2	1299.1
5°	1161.1	1163.9	1177.8	1187.5	1204.2	1218.6	1229.9	1242.2	1256.8	1276.7	1294.9
7.5°	1092.4	1102.3	1117.5	1133.3	1150.2	1169.2	1185.8	1204.4	1229.4	1256.7	1284.9
10°	1053.2	1064.5	1080.7	1098.8	1115.0	1137.0	1157.4	1179.4	1207.9	1241.2	1274.6
12.5°	1014.1	1032.7	1044.9	1066.6	1084.1	1102.2	1123.9	1152.8	1186.0	1221.0	1261.2
15°	965.1	975.3	999.0	1010.8	1035.5	1063.4	1084.9	1113.9	1146.1	1192.3	1237.5
17.5°	908.7	922.1	940.9	963.4	991.8	1013.6	1040.4	1070.2	1110.8	1156.7	1213.2
20°	871.7	882.9	906.1	930.8	960.9	983.9	1012.4	1041.4	1083.3	1132.2	1191.2
22.5°	838.6	849.5	873.8	896.9	926.0	954.3	984.0	1017.7	1057.9	1109.4	1169.7
25°	787.4	801.8	823.3	847.0	874.9	907.2	939.4	969.5	1012.4	1066.6	1131.1
27.5°	741.9	753.6	769.1	796.0	827.7	858.8	890.8	928.6	969.9	1027.2	1094.2
30°	712.7	723.5	739.0	763.8	793.2	826.6	859.9	896.4	939.4	996.3	1064.5
32.5°	689.5	697.7	711.6	733.7	760.6	795.7	828.5	866.4	911.4	967.6	1034.0
35°	655.2	662.3	667.6	688.5	712.7	745.0	778.2	818.5	862.0	915.2	981.8
37.5°	621.6	624.0	631.9	645.6	669.0	698.6	729.5	769.2	813.7	867.8	927.9
40°	601.0	602.1	606.9	619.8	640.3	668.1	698.2	737.4	779.8	830.9	890.5
42.5°	580.8	580.2	584.6	593.6	612.7	638.0	667.7	703.5	745.9	793.0	849.2
45°	548.9	548.9	547.9	555.3	570.9	595.6	620.4	654.7	690.1	736.4	783.7
47.5°	515.6	512.6	513.5	517.5	530.5	550.9	575.7	603.9	635.2	674.3	715.7
50°	494.1	489.8	488.2	492.5	504.3	522.0	545.6	570.4	600.0	634.3	669.7
52.5°	470.5	466.2	463.3	466.3	477.3	493.7	515.1	536.8	563.4	591.4	622.1
55°	433.9	429.1	427.5	428.6	436.7	449.5	467.8	487.7	507.6	530.7	552.1
57.5°	398.0	390.0	388.5	388.0	393.5	405.4	420.6	437.9	452.3	466.3	489.2
60°	374.4	364.7	361.4	360.9	365.3	374.9	388.9	406.1	416.3	425.9	445.8
62.5°	349.0	339.7	332.6	333.5	337.3	346.5	358.8	371.2	378.0	388.5	401.9
65°	309.9	298.1	292.8	291.1	293.3	300.7	310.4	318.5	326.0	330.3	343.2
67.5°	270.8	260.9	253.0	251.1	250.0	255.2	263.2	268.0	273.4	277.1	284.8
70°	243.3	234.7	225.0	221.8	221.3	225.6	233.1	233.6	241.2	242.8	250.9
72.5°	216.2	205.5	198.8	195.6	193.4	197.2	202.2	203.6	207.6	210.6	214.7
75°	174.0	165.9	159.6	154.7	153.1	155.2	155.2	157.9	160.6	162.2	167.0
77.5°	136.9	127.7	120.1	117.3	115.3	114.0	115.1	116.7	115.4	118.3	119.4
80°	111.2	101.5	95.6	94.5	91.3	88.7	88.1	89.7	87.6	88.7	91.8
82.5°	85.8	79.6	73.2	72.2	68.1	66.8	66.1	65.2	65.2	65.0	65.6
85°	51.0	47.3	42.9	40.3	38.7	36.0	36.0	34.9	33.8	32.7	33.3
87.5°	27.8	26.5	23.7	21.9	20.5	18.3	17.7	15.7	14.4	13.2	12.1
90°	35.5	33.5	30.8	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5
92.5°	34.3	32.3	29.6	26.9	24.1	21.4	20.0	19.8	19.6	19.4	19.2
95°	35.5	33.5	33.1	32.8	32.5	32.1	37.8	49.3	60.8	72.2	83.7
97.5°	40.4	40.2	78.0	115.7	153.5	191.3	206.6	199.4	192.2	185.0	177.8
100°	61.3	67.1	113.7	160.4	207.1	253.8	274.1	268.0	262.0	255.9	249.7
102.5°	260.7	322.9	328.9	335.1	341.1	347.2	348.0	343.6	339.1	334.7	330.1
105°	478.2	475.1	473.4	471.8	470.1	468.4	466.6	464.5	462.4	460.4	458.4
107.5°	593.9	592.4	590.1	587.8	585.5	583.2	581.6	580.6	579.6	578.6	577.4
110°	672.3	671.6	669.5	667.5	665.5	663.5	662.0	661.0	659.9	658.9	657.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	748.2	748.4	747.4	746.5	745.5	744.6	743.2	741.3	739.5	737.7	735.9
115°	859.6	858.9	859.3	859.6	859.9	860.3	859.9	858.9	857.9	856.9	855.9
117.5°	973.3	973.4	972.7	972.0	971.2	970.5	969.5	968.1	966.7	965.3	964.0
120°	1042.4	1041.7	1042.0	1042.4	1042.7	1043.0	1042.5	1041.2	1039.9	1038.4	1037.1
122.5°	1111.6	1111.2	1110.6	1110.1	1109.7	1109.2	1108.6	1107.7	1106.9	1106.1	1105.3
125°	1207.2	1206.2	1206.8	1207.5	1208.2	1208.8	1208.5	1207.2	1205.8	1204.5	1203.2
127.5°	1304.0	1304.2	1302.6	1301.1	1299.6	1298.0	1297.1	1296.7	1296.4	1296.1	1295.7
130°	1361.8	1361.5	1360.5	1359.5	1358.5	1357.5	1356.8	1356.5	1356.0	1355.7	1355.4
132.5°	1419.1	1418.8	1417.4	1416.1	1414.9	1413.6	1412.7	1412.1	1411.5	1410.8	1410.2
135°	1497.7	1497.0	1495.7	1494.3	1493.0	1491.6	1491.1	1491.5	1491.8	1492.1	1492.5
137.5°	1573.3	1572.6	1571.0	1569.6	1568.1	1566.6	1565.8	1565.7	1565.5	1565.4	1565.3
140°	1619.9	1618.8	1618.2	1617.5	1616.8	1616.2	1615.5	1614.8	1614.2	1613.5	1612.8
142.5°	1663.4	1662.7	1662.3	1661.9	1661.5	1661.1	1660.3	1659.1	1657.9	1656.6	1655.4
145°	1725.8	1725.5	1725.5	1725.5	1725.5	1725.5	1725.0	1723.9	1722.9	1721.9	1720.9
147.5°	1780.3	1780.0	1780.3	1780.7	1781.0	1781.3	1780.6	1778.7	1776.8	1774.8	1773.0
150°	1815.3	1815.3	1815.6	1816.0	1816.3	1816.6	1816.1	1814.8	1813.4	1812.1	1810.8
152.5°	1845.1	1844.5	1845.1	1845.7	1846.3	1847.0	1846.7	1845.6	1844.6	1843.5	1842.4
155°	1885.2	1883.8	1884.9	1885.9	1886.9	1887.9	1888.2	1887.9	1887.5	1887.2	1886.9
157.5°	1920.1	1918.2	1919.5	1920.6	1921.7	1922.9	1923.6	1923.8	1924.0	1924.2	1924.4
160°	1942.3	1940.2	1940.6	1940.9	1941.2	1941.6	1942.3	1943.3	1944.3	1945.3	1946.3
162.5°	1960.5	1958.4	1958.8	1959.1	1959.4	1959.8	1960.7	1962.0	1963.2	1964.5	1965.8
165°	1985.5	1982.9	1982.9	1982.9	1982.9	1982.9	1983.7	1985.4	1987.1	1988.7	1990.4
167.5°	2004.1	2001.1	2001.4	2001.6	2001.8	2002.0	2002.9	2004.7	2006.4	2008.2	2009.9
170°	2016.0	2013.3	2013.0	2012.7	2012.3	2012.0	2012.8	2014.8	2016.8	2018.9	2020.9
172.5°	2023.3	2020.6	2020.2	2019.9	2019.6	2019.2	2020.1	2022.2	2024.2	2026.2	2028.2
175°	2031.5	2028.5	2028.2	2027.8	2027.5	2027.2	2028.0	2030.0	2032.1	2034.1	2036.1
177.5°	2035.9	2033.7	2033.2	2032.7	2032.1	2031.5	2032.3	2034.1	2036.0	2037.9	2039.8
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1305.1	1309.4	1315.0	1324.4	1327.9	1332.2	1338.2	1337.8	1339.5	1345.9	1359.7
5°	1310.0	1326.6	1342.7	1362.0	1382.5	1395.8	1414.1	1425.4	1436.7	1451.2	1475.9
7.5°	1311.9	1338.3	1367.9	1401.8	1432.0	1466.8	1494.0	1519.5	1542.6	1573.3	1602.7
10°	1308.9	1344.3	1382.5	1425.4	1471.1	1509.7	1544.7	1584.4	1618.2	1655.3	1688.6
12.5°	1303.3	1346.0	1397.0	1445.2	1498.5	1555.7	1599.2	1639.4	1684.5	1727.1	1778.4
15°	1290.6	1349.2	1408.8	1472.2	1543.6	1609.6	1672.4	1724.5	1772.9	1836.8	1904.0
17.5°	1274.6	1337.7	1412.9	1489.6	1564.2	1639.7	1717.5	1795.8	1856.8	1936.2	1988.7
20°	1259.5	1332.5	1409.9	1501.2	1575.8	1669.8	1747.2	1822.9	1906.6	1985.6	2048.4
22.5°	1238.4	1318.4	1400.4	1491.3	1589.5	1683.5	1772.9	1855.1	1938.8	2024.7	2100.8
25°	1211.6	1284.1	1381.4	1484.5	1582.3	1684.3	1786.9	1890.0	1980.2	2071.0	2141.9
27.5°	1166.1	1257.7	1348.2	1454.6	1563.3	1678.7	1788.4	1896.3	1990.8	2065.5	2109.4
30°	1143.0	1222.4	1320.7	1427.5	1545.2	1669.3	1783.6	1889.5	1977.5	2037.2	2054.9
32.5°	1108.5	1190.6	1286.8	1397.5	1522.0	1649.5	1768.6	1868.5	1941.9	1973.2	1951.8
35°	1057.5	1131.7	1228.8	1342.2	1471.6	1607.5	1725.2	1809.5	1847.0	1817.5	1743.9
37.5°	996.3	1069.8	1167.4	1278.7	1412.6	1550.7	1657.1	1717.8	1705.4	1631.8	1522.2
40°	953.3	1022.1	1115.0	1235.3	1365.8	1504.4	1597.8	1630.6	1596.2	1491.0	1374.4
42.5°	905.6	972.7	1066.0	1182.0	1320.3	1448.0	1529.5	1532.2	1474.6	1348.8	1231.7
45°	833.0	897.0	985.0	1105.9	1233.7	1354.0	1407.7	1381.4	1275.1	1153.7	1036.0
47.5°	761.3	816.8	903.6	1018.3	1139.7	1241.0	1267.6	1220.2	1106.9	989.1	880.1
50°	708.9	764.8	846.5	956.0	1073.1	1160.6	1173.6	1110.6	999.6	880.8	795.5
52.5°	658.6	714.1	792.7	894.1	1001.4	1080.3	1080.8	1008.0	897.3	791.4	712.1
55°	584.9	634.8	705.7	796.5	892.1	953.8	938.9	863.6	767.5	675.7	606.3
57.5°	513.8	557.2	622.6	698.3	782.5	833.4	808.5	736.1	650.3	572.4	519.9
60°	467.8	509.2	565.0	636.4	707.3	747.1	723.5	657.9	579.0	516.1	470.5
62.5°	423.1	458.1	511.7	573.7	639.4	668.9	647.8	583.2	514.9	458.2	421.1
65°	359.8	388.3	431.3	484.4	532.3	557.4	539.8	479.6	427.5	386.7	357.2
67.5°	300.7	323.0	355.6	398.2	438.8	452.4	436.4	394.5	350.3	317.6	296.8
70°	259.9	280.9	308.3	341.0	376.5	391.0	374.9	341.5	305.6	275.5	255.1
72.5°	224.3	240.5	263.6	291.6	319.3	333.9	322.9	290.8	260.4	238.1	220.8
75°	170.8	184.8	200.9	220.8	242.3	251.9	242.3	220.3	199.2	182.6	170.3
77.5°	124.2	131.7	144.1	159.0	172.4	179.9	171.5	156.5	143.7	132.3	126.2
80°	94.5	99.9	108.5	120.3	129.5	136.4	131.1	118.7	108.5	101.0	98.3
82.5°	68.8	72.4	78.0	86.7	92.9	96.4	94.1	85.1	81.0	74.3	71.6
85°	33.8	36.0	39.8	42.4	47.8	48.4	48.9	45.1	41.4	39.8	37.6
87.5°	13.2	14.4	16.5	18.5	20.9	21.8	21.9	22.5	21.3	21.3	20.0
90°	8.3	12.0	15.8	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6
92.5°	19.4	19.6	19.8	20.0	21.4	24.1	26.9	29.6	32.3	34.3	36.4
95°	72.2	60.8	49.3	37.8	32.1	32.5	32.8	33.1	33.5	35.5	37.6
97.5°	185.0	192.2	199.4	206.6	191.3	153.5	115.7	78.0	40.2	40.4	40.6
100°	255.9	262.0	268.0	274.1	253.8	207.1	160.4	113.7	67.1	61.3	55.5
102.5°	334.7	339.1	343.6	348.0	347.2	341.1	335.1	328.9	322.9	260.7	198.7
105°	460.4	462.4	464.5	466.6	468.4	470.1	471.8	473.4	475.1	478.2	481.2
107.5°	578.6	579.6	580.6	581.6	583.2	585.5	587.8	590.1	592.4	593.9	595.4
110°	658.9	659.9	661.0	662.0	663.5	665.5	667.5	669.5	671.6	672.3	673.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	737.7	739.5	741.3	743.2	744.6	745.5	746.5	747.4	748.4	748.2	748.1
115°	856.9	857.9	858.9	859.9	860.3	859.9	859.6	859.3	858.9	859.6	860.3
117.5°	965.3	966.7	968.1	969.5	970.5	971.2	972.0	972.7	973.4	973.3	973.2
120°	1038.4	1039.9	1041.2	1042.5	1043.0	1042.7	1042.4	1042.0	1041.7	1042.4	1043.0
122.5°	1106.1	1106.9	1107.7	1108.6	1109.2	1109.7	1110.1	1110.6	1111.2	1111.6	1112.0
125°	1204.5	1205.8	1207.2	1208.5	1208.8	1208.2	1207.5	1206.8	1206.2	1207.2	1208.2
127.5°	1296.1	1296.4	1296.7	1297.1	1298.0	1299.6	1301.1	1302.6	1304.2	1304.0	1303.8
130°	1355.7	1356.0	1356.5	1356.8	1357.5	1358.5	1359.5	1360.5	1361.5	1361.8	1362.2
132.5°	1410.8	1411.5	1412.1	1412.7	1413.6	1414.9	1416.1	1417.4	1418.8	1419.1	1419.5
135°	1492.1	1491.8	1491.5	1491.1	1491.6	1493.0	1494.3	1495.7	1497.0	1497.7	1498.3
137.5°	1565.4	1565.5	1565.7	1565.8	1566.6	1568.1	1569.6	1571.0	1572.6	1573.3	1574.1
140°	1613.5	1614.2	1614.8	1615.5	1616.2	1616.8	1617.5	1618.2	1618.8	1619.9	1620.9
142.5°	1656.6	1657.9	1659.1	1660.3	1661.1	1661.5	1661.9	1662.3	1662.7	1663.4	1664.3
145°	1721.9	1722.9	1723.9	1725.0	1725.5	1725.5	1725.5	1725.5	1725.5	1725.8	1726.2
147.5°	1774.8	1776.8	1778.7	1780.6	1781.3	1781.0	1780.7	1780.3	1780.0	1780.3	1780.5
150°	1812.1	1813.4	1814.8	1816.1	1816.6	1816.3	1816.0	1815.6	1815.3	1815.3	1815.3
152.5°	1843.5	1844.6	1845.6	1846.7	1847.0	1846.3	1845.7	1845.1	1844.5	1845.1	1845.6
155°	1887.2	1887.5	1887.9	1888.2	1887.9	1886.9	1885.9	1884.9	1883.8	1885.2	1886.5
157.5°	1924.2	1924.0	1923.8	1923.6	1922.9	1921.7	1920.6	1919.5	1918.2	1920.1	1921.8
160°	1945.3	1944.3	1943.3	1942.3	1941.6	1941.2	1940.9	1940.6	1940.2	1942.3	1944.3
162.5°	1964.5	1963.2	1962.0	1960.7	1959.8	1959.4	1959.1	1958.8	1958.4	1960.5	1962.6
165°	1988.7	1987.1	1985.4	1983.7	1982.9	1982.9	1982.9	1982.9	1982.9	1985.5	1988.2
167.5°	2008.2	2006.4	2004.7	2002.9	2002.0	2001.8	2001.6	2001.4	2001.1	2004.1	2007.1
170°	2018.9	2016.8	2014.8	2012.8	2012.0	2012.3	2012.7	2013.0	2013.3	2016.0	2018.7
172.5°	2026.2	2024.2	2022.2	2020.1	2019.2	2019.6	2019.9	2020.2	2020.6	2023.3	2026.0
175°	2034.1	2032.1	2030.0	2028.0	2027.2	2027.5	2027.8	2028.2	2028.5	2031.5	2034.6
177.5°	2037.9	2036.0	2034.1	2032.3	2031.5	2032.1	2032.7	2033.2	2033.7	2035.9	2038.0
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1366.5	1367.5	1371.3	1374.3	1375.1	1379.5	1379.9
5°	1486.6	1495.8	1513.5	1515.1	1517.8	1531.8	1521.1
7.5°	1627.4	1650.5	1666.1	1679.7	1684.7	1690.7	1689.5
10°	1717.6	1752.0	1769.2	1796.5	1797.7	1804.6	1800.3
12.5°	1808.3	1848.3	1879.6	1884.6	1907.6	1911.2	1917.2
15°	1936.7	1979.1	2022.7	2038.2	2069.9	2077.5	2089.3
17.5°	2057.5	2100.8	2131.3	2171.6	2184.6	2202.0	2190.2
20°	2123.6	2170.9	2209.6	2241.3	2254.7	2264.3	2263.3
22.5°	2163.6	2211.3	2242.6	2266.6	2279.2	2283.3	2283.0
25°	2188.6	2216.0	2225.6	2234.8	2220.9	2216.0	2218.2
27.5°	2119.0	2111.9	2086.7	2053.6	2019.2	1992.0	1977.1
30°	2023.2	1981.4	1943.2	1876.5	1842.2	1821.8	1803.5
32.5°	1887.4	1821.1	1747.7	1686.7	1647.6	1617.3	1612.8
35°	1654.8	1554.9	1465.2	1390.5	1351.8	1319.1	1311.5
37.5°	1406.8	1303.0	1222.3	1156.6	1115.0	1091.9	1070.3
40°	1242.2	1153.2	1073.6	1017.7	986.1	969.5	956.0
42.5°	1115.5	1034.1	955.0	912.5	883.8	873.6	865.8
45°	940.4	864.7	809.9	777.7	761.0	743.9	735.8
47.5°	800.2	738.6	702.5	675.1	657.3	647.1	642.0
50°	720.7	670.2	638.0	617.1	601.0	592.9	588.7
52.5°	650.3	608.8	581.8	565.1	554.2	548.3	546.5
55°	560.2	528.5	511.3	496.9	488.8	483.4	481.2
57.5°	487.0	462.5	448.6	436.7	433.5	429.0	427.5
60°	438.8	420.0	408.2	400.1	397.5	392.0	393.1
62.5°	396.3	380.9	370.8	366.2	362.6	358.1	359.6
65°	335.2	323.9	318.5	314.2	309.9	307.2	309.3
67.5°	281.2	273.5	266.2	263.7	261.6	261.2	258.8
70°	246.0	239.5	233.1	231.5	231.5	229.3	228.8
72.5°	212.1	207.3	203.0	201.9	200.2	201.0	198.7
75°	163.8	160.1	158.4	156.8	156.3	156.3	154.7
77.5°	121.1	118.3	115.7	115.7	113.7	113.0	112.8
80°	91.8	90.8	88.7	88.7	87.6	88.1	87.1
82.5°	69.1	67.6	67.2	66.2	64.7	64.8	63.8
85°	37.1	35.4	34.9	33.3	32.2	33.3	32.2
87.5°	20.8	20.8	20.6	19.9	19.6	19.8	18.6
90°	39.6	41.6	43.0	43.6	44.3	45.0	45.6
92.5°	38.4	40.4	41.5	41.6	41.8	41.9	42.0
95°	39.6	41.6	42.8	43.1	43.5	43.8	44.1
97.5°	40.8	41.0	41.3	41.6	42.0	42.3	42.6
100°	49.8	44.0	41.3	41.6	42.0	42.3	42.6
102.5°	136.6	74.6	43.6	43.6	43.7	43.8	43.8
105°	484.3	487.4	482.7	470.6	458.4	446.3	434.0
107.5°	596.9	598.3	599.8	601.1	602.3	603.6	604.9
110°	673.7	674.3	675.2	676.2	677.2	678.2	679.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	747.9	747.8	748.4	749.7	750.9	752.2	753.6
115°	860.9	861.6	862.0	862.0	862.0	862.0	862.0
117.5°	973.0	972.9	972.8	972.6	972.5	972.4	972.2
120°	1043.7	1044.4	1044.4	1043.7	1043.0	1042.4	1041.7
122.5°	1112.4	1112.8	1112.6	1112.0	1111.3	1110.5	1109.9
125°	1209.2	1210.2	1210.9	1211.2	1211.5	1211.9	1212.2
127.5°	1303.6	1303.4	1303.1	1302.9	1302.6	1302.3	1302.1
130°	1362.5	1362.8	1363.0	1363.0	1363.0	1363.0	1363.0
132.5°	1419.8	1420.1	1420.2	1419.9	1419.6	1419.4	1419.1
135°	1499.0	1499.8	1500.5	1501.1	1501.8	1502.5	1503.1
137.5°	1574.8	1575.6	1575.8	1575.6	1575.4	1575.2	1575.0
140°	1621.9	1623.0	1623.6	1624.0	1624.3	1624.6	1625.0
142.5°	1665.0	1665.7	1666.1	1666.2	1666.3	1666.3	1666.4
145°	1726.5	1726.8	1727.4	1728.0	1728.7	1729.4	1730.0
147.5°	1780.8	1781.1	1781.4	1781.7	1782.0	1782.4	1782.7
150°	1815.3	1815.3	1815.5	1815.8	1816.1	1816.5	1816.8
152.5°	1846.1	1846.7	1846.8	1846.6	1846.4	1846.2	1846.0
155°	1887.9	1889.3	1889.5	1888.4	1887.4	1886.4	1885.4
157.5°	1923.6	1925.3	1925.3	1923.6	1921.8	1920.1	1918.2
160°	1946.3	1948.3	1948.3	1946.3	1944.3	1942.3	1940.2
162.5°	1964.6	1966.6	1966.4	1964.2	1961.9	1959.5	1957.2
165°	1990.9	1993.7	1993.5	1990.4	1987.4	1984.4	1981.4
167.5°	2010.0	2013.1	2012.9	2009.4	2006.1	2002.7	1999.3
170°	2021.4	2024.2	2023.8	2020.4	2017.0	2013.7	2010.2
172.5°	2028.7	2031.4	2030.9	2027.3	2023.7	2020.0	2016.3
175°	2037.7	2040.7	2040.2	2036.1	2032.1	2028.0	2024.0
177.5°	2040.2	2042.4	2041.8	2038.6	2035.3	2032.1	2028.8
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1

(END OF REPORT)