

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: P331841-840

Luminaire Tested: **S122RDIW-S865D1440U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331841-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S865D1440U840-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

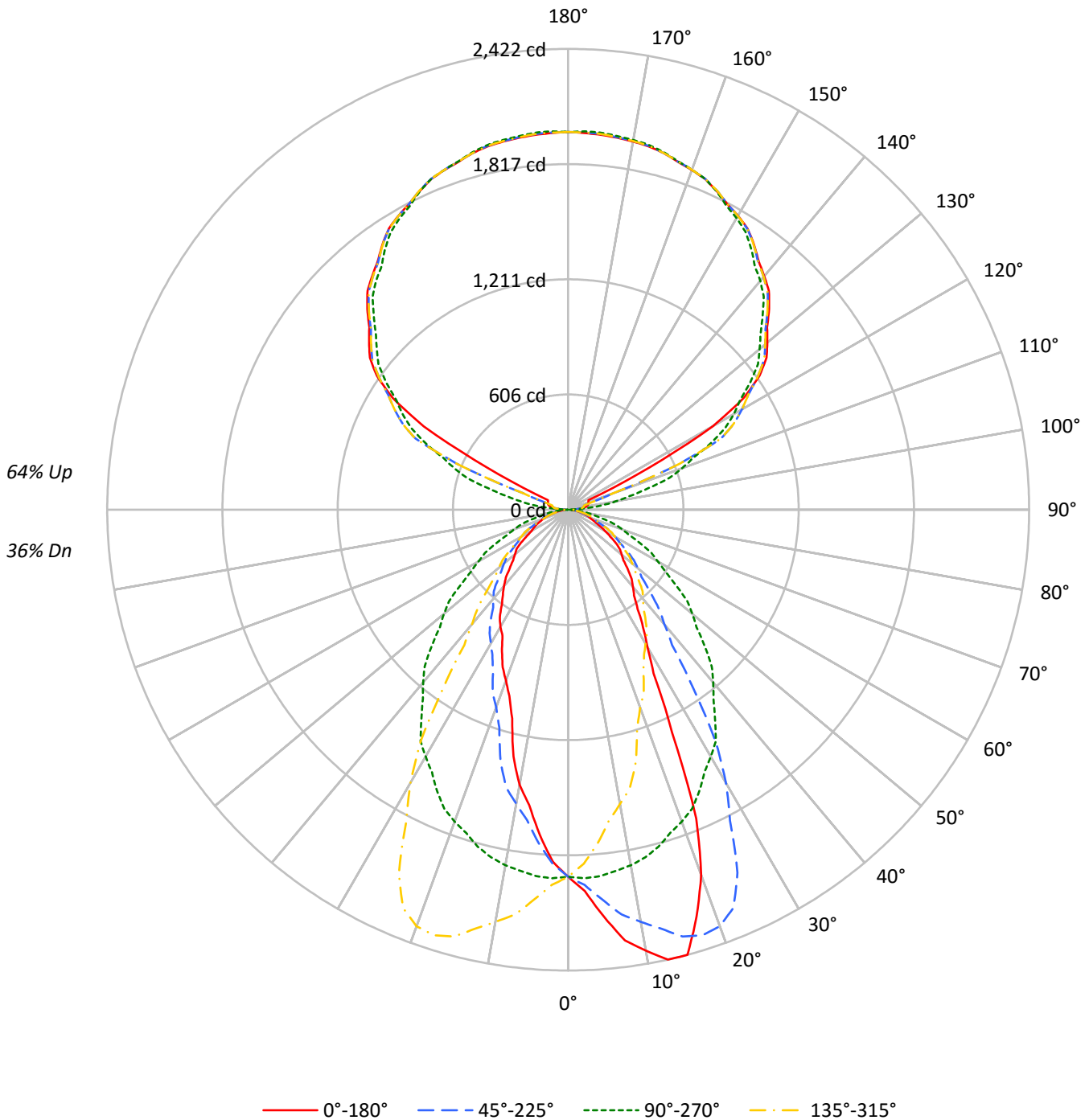
Lumens per Lamp: N/A  
Luminaire Lumens: 9154.5 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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	0		
RCR																										
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36					36			
1	95	91	88	84	86	83	80	77	67	65	63	53	51	50	39	39	38	32					32			
2	87	80	75	70	79	73	68	64	60	56	53	47	45	43	35	34	33	28					28			
3	80	71	64	59	72	65	59	54	53	49	45	42	39	37	32	30	29	24					24			
4	73	63	56	50	66	58	52	47	48	43	39	38	35	32	29	27	25	21					21			
5	68	57	49	43	61	52	45	40	43	38	34	34	31	28	26	24	22	19					19			
6	62	51	43	38	57	47	40	35	39	34	30	31	28	25	24	22	20	17					17			
7	58	46	39	33	52	42	36	31	35	30	27	29	25	22	22	20	18	15					15			
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	21	18	16	14					14			
9	50	39	31	27	46	36	29	25	30	25	22	24	21	18	19	17	15	13					13			
10	47	35	29	24	43	33	27	23	27	23	20	23	19	17	18	16	14	12					12			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	2.0
10°-20°	509.4	5.6
20°-30°	656.4	7.2
30°-40°	623.8	6.8
40°-50°	534.4	5.8
50°-60°	406.9	4.4
60°-70°	257.2	2.8
70°-80°	128.5	1.4
80°-90°	38.3	0.4
90°-100°	66.2	0.7
100°-110°	242.8	2.7
110°-120°	649.0	7.1
120°-130°	1071.4	11.7
130°-140°	1139.4	12.4
140°-150°	1059.0	11.6
150°-160°	851.5	9.3
160°-170°	548.7	6.0
170°-180°	188.9	2.1
0°-30°	1348.5	14.7
0°-40°	1972.3	21.5
0°-60°	2913.6	31.8
0°-90°	3337.6	36.5
90°-120°	958.1	10.5
90°-150°	4227.9	46.2
90°-180°	5817.0	63.5
0°-180°	9154.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	27
90°	39	1	39	1	39	18
95°	62	93	62	93	62	58
105°	109	437	109	437	109	114
115°	118	826	118	826	118	295
125°	1228	1168	1228	1168	1228	1063
135°	1492	1445	1492	1445	1492	1150
145°	1702	1676	1702	1676	1702	1064
155°	1847	1846	1847	1846	1847	852
165°	1940	1945	1940	1945	1940	548
175°	1978	1989	1978	1989	1978	188
180°	1985	1985	1985	1985	1985	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	16.4	16.8	16.7	16.5	16.4	16.2	15.9	16.1	15.1	15.3	14.3
90°	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9	30.3	28.7	26.2
92.5°	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9	34.1	33.3	32.0
95°	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2	57.6	56.0	53.8
97.5°	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6	76.2	74.9	69.8
100°	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9	84.4	81.9	76.4
102.5°	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8	87.5	84.1	129.6
105°	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6	91.1	87.7	174.7
107.5°	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5	119.1	122.7	227.1
110°	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5	219.4	251.4	343.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1	517.6	634.0	656.7
115°	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7	738.4	886.2	878.2
117.5°	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1	945.8	981.6	976.0
120°	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5	1056.6	1052.8	1047.0
122.5°	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2	1122.9	1120.5	1114.3
125°	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1	1215.9	1213.7	1207.6
127.5°	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0	1300.8	1297.6	1293.0
130°	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6	1355.0	1351.5	1348.0
132.5°	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5	1408.6	1405.5	1402.0
135°	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1	1484.0	1480.8	1477.9
137.5°	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4	1554.3	1551.2	1547.9
140°	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9	1600.0	1597.1	1593.7
142.5°	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9	1642.2	1639.6	1635.6
145°	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5	1701.3	1699.1	1693.6
147.5°	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7	1753.0	1751.4	1746.1
150°	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2	1784.3	1782.4	1777.3
152.5°	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9	1813.0	1811.1	1806.2
155°	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7	1851.8	1849.9	1846.1
157.5°	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4	1884.3	1882.1	1879.4
160°	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4	1903.5	1901.6	1899.7
162.5°	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2	1921.1	1918.8	1917.2
165°	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4	1939.4
167.5°	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0	1960.8	1958.5	1957.6
170°	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2	1969.9	1967.7	1967.0
172.5°	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0	1976.8	1974.6	1974.0
175°	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5	1984.3	1982.1	1981.5
177.5°	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3	1985.6	1983.8	1983.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	13.8	13.8	13.3	12.2	12.0	11.9	13.8	15.9	14.3	13.5	13.1
90°	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4	4.9	8.5	12.0
92.5°	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0	28.7	28.4	28.1
95°	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3	82.8	72.3	61.8
97.5°	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3	155.6	125.9	96.2
100°	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2	210.5	166.7	123.0
102.5°	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0	320.8	311.5	302.3
105°	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7	446.2	455.8	465.3
107.5°	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2	565.8	573.6	581.3
110°	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3	643.0	649.6	656.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8	715.7	721.6	727.6
115°	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9	831.3	836.7	842.1
117.5°	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6	935.6	941.7	947.8
120°	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4	1010.2	1014.9	1019.8
122.5°	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8	1074.8	1079.8	1084.9
125°	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7	1171.8	1176.0	1180.1
127.5°	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5	1261.0	1265.7	1270.2
130°	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7	1317.9	1322.9	1328.1
132.5°	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2	1374.5	1378.9	1383.2
135°	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9	1450.0	1455.1	1460.2
137.5°	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5	1524.0	1527.6	1531.2
140°	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8	1572.4	1575.0	1577.5
142.5°	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2	1613.5	1615.8	1618.1
145°	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2	1675.8	1675.5	1675.2
147.5°	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7	1731.5	1730.3	1729.1
150°	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5	1767.3	1765.0	1762.8
152.5°	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5	1798.1	1795.5	1793.0
155°	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6	1842.7	1839.9	1836.9
157.5°	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0	1878.6	1876.1	1873.7
160°	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1899.7	1897.8	1895.9
162.5°	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0	1918.1	1916.2	1914.3
165°	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7	1942.8	1940.9	1938.9
167.5°	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1	1961.2	1959.2	1957.3
170°	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5	1971.6	1969.6	1967.7
172.5°	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3	1978.4	1976.5	1974.6
175°	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2	1987.0	1984.8	1982.6
177.5°	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6	1988.9	1987.1	1985.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	13.3	13.3	12.8	13.3	13.8	13.8	14.1	13.9	14.2	14.5	14.2
90°	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9	33.5	35.1	36.3
92.5°	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9	35.9	36.7	37.3
95°	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2	60.8	62.4	63.0
97.5°	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6	78.8	80.1	80.9
100°	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9	89.6	92.1	93.7
102.5°	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8	94.1	97.5	99.6
105°	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6	98.2	101.7	104.0
107.5°	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5	111.9	108.4	107.2
110°	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5	155.6	123.7	108.4



TEST NUMBER: P331841-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1	284.7	168.2	110.5
115°	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7	442.8	295.1	209.6
117.5°	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1	874.3	838.6	782.9
120°	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5	1064.3	1068.1	1048.4
122.5°	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2	1127.5	1129.7	1126.7
125°	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1	1220.3	1222.5	1224.2
127.5°	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0	1307.3	1310.5	1312.3
130°	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6	1362.1	1365.5	1367.2
132.5°	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5	1414.5	1417.5	1418.9
135°	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1	1490.4	1493.6	1494.8
137.5°	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4	1560.5	1563.7	1564.7
140°	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9	1605.8	1608.6	1609.2
142.5°	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9	1647.5	1650.1	1650.6
145°	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5	1705.8	1708.1	1708.4
147.5°	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7	1756.4	1758.1	1758.2
150°	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2	1788.2	1790.1	1790.2
152.5°	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9	1816.8	1818.8	1818.7
155°	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7	1855.6	1857.5	1857.2
157.5°	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4	1888.5	1890.8	1890.6
160°	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4	1907.3	1909.3	1909.1
162.5°	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2	1925.4	1927.5	1927.2
165°	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3
167.5°	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0	1965.2	1967.4	1967.1
170°	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2	1974.4	1976.6	1976.3
172.5°	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0	1981.3	1983.5	1983.2
175°	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5	1988.7	1990.9	1990.5
177.5°	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3	1989.1	1990.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	14.3	13.9	14.6	14.1	14.6	13.9	14.3	14.2	14.5	14.2	13.9
90°	36.9	37.5	38.2	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9
92.5°	37.7	38.0	38.4	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9
95°	62.7	62.4	62.1	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2
97.5°	81.3	81.7	82.1	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6
100°	94.3	94.9	95.6	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9
102.5°	100.5	101.3	102.2	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8
105°	105.3	106.6	107.9	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6
107.5°	108.5	109.8	111.1	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5
110°	109.7	110.9	112.2	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	111.6	112.6	113.6	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1
115°	186.7	163.7	140.8	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7
117.5°	707.4	631.9	556.3	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1
120°	1005.4	962.3	919.2	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5
122.5°	1118.3	1110.0	1101.7	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2
125°	1225.2	1226.1	1227.1	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1
127.5°	1312.4	1312.6	1312.8	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0
130°	1366.9	1366.5	1366.2	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6
132.5°	1418.6	1418.3	1418.0	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5
135°	1494.2	1493.6	1492.9	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1
137.5°	1563.6	1562.6	1561.5	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4
140°	1607.7	1606.1	1604.5	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9
142.5°	1649.0	1647.4	1645.9	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9
145°	1706.8	1705.2	1703.5	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5
147.5°	1756.9	1755.5	1754.1	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7
150°	1788.7	1787.1	1785.4	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2
152.5°	1816.5	1814.5	1812.4	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9
155°	1854.7	1852.2	1849.6	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7
157.5°	1888.1	1885.6	1883.1	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4
160°	1906.9	1904.6	1902.4	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4
162.5°	1924.5	1921.8	1919.0	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2
165°	1947.1	1944.9	1942.7	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9
167.5°	1964.3	1961.4	1958.5	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0
170°	1973.5	1970.5	1967.7	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2
172.5°	1980.3	1977.4	1974.6	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0
175°	1987.3	1984.1	1981.0	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5
177.5°	1988.3	1986.1	1983.8	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	14.1	13.8	13.8	13.3	12.8	13.3	13.3	13.1	13.5	14.3	15.9
90°	30.3	28.7	26.2	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4
92.5°	34.1	33.3	32.0	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0
95°	57.6	56.0	53.8	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3
97.5°	76.2	74.9	69.8	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3
100°	84.4	81.9	76.4	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2
102.5°	87.5	84.1	129.6	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0
105°	91.1	87.7	174.7	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7
107.5°	119.1	122.7	227.1	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2
110°	219.4	251.4	343.6	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	517.6	634.0	656.7	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8
115°	738.4	886.2	878.2	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9
117.5°	945.8	981.6	976.0	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6
120°	1056.6	1052.8	1047.0	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4
122.5°	1122.9	1120.5	1114.3	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8
125°	1215.9	1213.7	1207.6	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7
127.5°	1300.8	1297.6	1293.0	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5
130°	1355.0	1351.5	1348.0	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7
132.5°	1408.6	1405.5	1402.0	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2
135°	1484.0	1480.8	1477.9	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9
137.5°	1554.3	1551.2	1547.9	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5
140°	1600.0	1597.1	1593.7	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8
142.5°	1642.2	1639.6	1635.6	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2
145°	1701.3	1699.1	1693.6	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2
147.5°	1753.0	1751.4	1746.1	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7
150°	1784.3	1782.4	1777.3	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5
152.5°	1813.0	1811.1	1806.2	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5
155°	1851.8	1849.9	1846.1	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6
157.5°	1884.3	1882.1	1879.4	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0
160°	1903.5	1901.6	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6
162.5°	1921.1	1918.8	1917.2	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0
165°	1942.7	1940.4	1939.4	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7
167.5°	1960.8	1958.5	1957.6	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1
170°	1969.9	1967.7	1967.0	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5
172.5°	1976.8	1974.6	1974.0	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3
175°	1984.3	1982.1	1981.5	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2
177.5°	1985.6	1983.8	1983.5	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.8	11.9	12.0	12.2	13.3	13.8	13.8	14.3	15.3	15.1	16.1
90°	4.9	8.5	12.0	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9
92.5°	28.7	28.4	28.1	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9
95°	82.8	72.3	61.8	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2
97.5°	155.6	125.9	96.2	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6
100°	210.5	166.7	123.0	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9
102.5°	320.8	311.5	302.3	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8
105°	446.2	455.8	465.3	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6
107.5°	565.8	573.6	581.3	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5
110°	643.0	649.6	656.4	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	715.7	721.6	727.6	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1
115°	831.3	836.7	842.1	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7
117.5°	935.6	941.7	947.8	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1
120°	1010.2	1014.9	1019.8	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5
122.5°	1074.8	1079.8	1084.9	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2
125°	1171.8	1176.0	1180.1	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1
127.5°	1261.0	1265.7	1270.2	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0
130°	1317.9	1322.9	1328.1	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6
132.5°	1374.5	1378.9	1383.2	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5
135°	1450.0	1455.1	1460.2	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1
137.5°	1524.0	1527.6	1531.2	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4
140°	1572.4	1575.0	1577.5	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9
142.5°	1613.5	1615.8	1618.1	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9
145°	1675.8	1675.5	1675.2	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5
147.5°	1731.5	1730.3	1729.1	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7
150°	1767.3	1765.0	1762.8	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2
152.5°	1798.1	1795.5	1793.0	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9
155°	1842.7	1839.9	1836.9	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7
157.5°	1878.6	1876.1	1873.7	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4
160°	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4
162.5°	1918.1	1916.2	1914.3	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2
165°	1942.8	1940.9	1938.9	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9
167.5°	1961.2	1959.2	1957.3	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0
170°	1971.6	1969.6	1967.7	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2
172.5°	1978.4	1976.5	1974.6	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0
175°	1987.0	1984.8	1982.6	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5
177.5°	1988.9	1987.1	1985.3	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	15.9	16.2	16.4	16.5	16.7	16.8	16.4
90°	33.5	35.1	36.3	36.9	37.5	38.2	38.8
92.5°	35.9	36.7	37.3	37.7	38.0	38.4	38.8
95°	60.8	62.4	63.0	62.7	62.4	62.1	61.8
97.5°	78.8	80.1	80.9	81.3	81.7	82.1	82.4
100°	89.6	92.1	93.7	94.3	94.9	95.6	96.2
102.5°	94.1	97.5	99.6	100.5	101.3	102.2	103.1
105°	98.2	101.7	104.0	105.3	106.6	107.9	109.2
107.5°	111.9	108.4	107.2	108.5	109.8	111.1	112.3
110°	155.6	123.7	108.4	109.7	110.9	112.2	113.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	284.7	168.2	110.5	111.6	112.6	113.6	114.6
115°	442.8	295.1	209.6	186.7	163.7	140.8	117.8
117.5°	874.3	838.6	782.9	707.4	631.9	556.3	480.9
120°	1064.3	1068.1	1048.4	1005.4	962.3	919.2	876.2
122.5°	1127.5	1129.7	1126.7	1118.3	1110.0	1101.7	1093.3
125°	1220.3	1222.5	1224.2	1225.2	1226.1	1227.1	1228.0
127.5°	1307.3	1310.5	1312.3	1312.4	1312.6	1312.8	1313.0
130°	1362.1	1365.5	1367.2	1366.9	1366.5	1366.2	1365.8
132.5°	1414.5	1417.5	1418.9	1418.6	1418.3	1418.0	1417.5
135°	1490.4	1493.6	1494.8	1494.2	1493.6	1492.9	1492.3
137.5°	1560.5	1563.7	1564.7	1563.6	1562.6	1561.5	1560.3
140°	1605.8	1608.6	1609.2	1607.7	1606.1	1604.5	1602.9
142.5°	1647.5	1650.1	1650.6	1649.0	1647.4	1645.9	1644.3
145°	1705.8	1708.1	1708.4	1706.8	1705.2	1703.5	1702.0
147.5°	1756.4	1758.1	1758.2	1756.9	1755.5	1754.1	1752.8
150°	1788.2	1790.1	1790.2	1788.7	1787.1	1785.4	1783.8
152.5°	1816.8	1818.8	1818.7	1816.5	1814.5	1812.4	1810.3
155°	1855.6	1857.5	1857.2	1854.7	1852.2	1849.6	1847.0
157.5°	1888.5	1890.8	1890.6	1888.1	1885.6	1883.1	1880.7
160°	1907.3	1909.3	1909.1	1906.9	1904.6	1902.4	1900.2
162.5°	1925.4	1927.5	1927.2	1924.5	1921.8	1919.0	1916.3
165°	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4
167.5°	1965.2	1967.4	1967.1	1964.3	1961.4	1958.5	1955.6
170°	1974.4	1976.6	1976.3	1973.5	1970.5	1967.7	1964.8
172.5°	1981.3	1983.5	1983.2	1980.3	1977.4	1974.6	1971.7
175°	1988.7	1990.9	1990.5	1987.3	1984.1	1981.0	1977.7
177.5°	1989.1	1990.9	1990.6	1988.3	1986.1	1983.8	1981.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9

(END OF REPORT)