

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: P331457-940

Luminaire Tested: **SA2XXDIP-C1005D1080U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331457-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7359.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

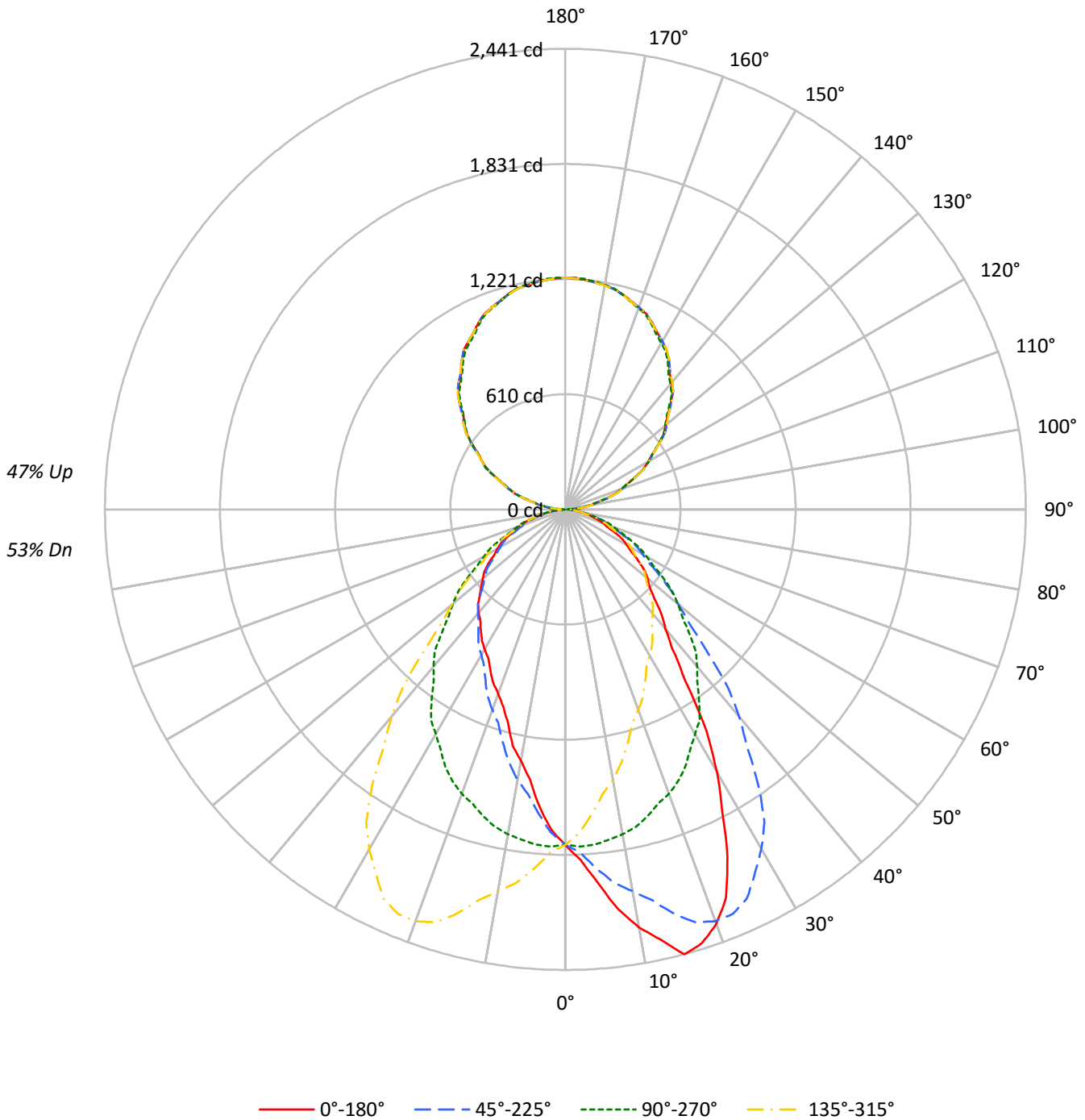
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	42	40	38	34
4	76	66	58	52	70	61	55	49	53	48	44	45	41	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	34	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	16

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

	0°	90°	180°	270°
0°	28709	28709	28709	28709
5°	32185	28896	25606	28896
10°	36882	28658	22161	28658
15°	40802	28134	19579	28134
20°	40180	27569	17849	27569
25°	36230	26820	16751	26820
30°	29940	25620	15951	25620
35°	21821	24366	15382	24366
40°	17428	22885	15066	22885
45°	15230	21174	14636	21174
50°	14315	19515	14350	19515
55°	13196	17833	13965	17833
60°	12093	16043	13372	16043
65°	11018	14437	12791	14437
70°	10003	12873	11939	12873
75°	8865	11123	10574	11123
80°	7624	9214	8517	9214
85°	6836	6836	5076	6836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.3	2.3
10°-20°	492.3	6.7
20°-30°	714.5	9.7
30°-40°	754.0	10.2
40°-50°	667.6	9.1
50°-60°	532.7	7.2
60°-70°	362.1	4.9
70°-80°	185.6	2.5
80°-90°	49.7	0.7
90°-100°	77.8	1.1
100°-110°	241.6	3.3
110°-120°	412.9	5.6
120°-130°	543.0	7.4
130°-140°	609.4	8.3
140°-150°	597.6	8.1
150°-160°	501.2	6.8
160°-170°	332.4	4.5
170°-180°	116.2	1.6
0°-30°	1376.1	18.7
0°-40°	2130.1	28.9
0°-60°	3330.4	45.3
0°-90°	3927.8	53.4
90°-120°	732.3	9.9
90°-150°	2482.3	33.7
90°-180°	3432.0	46.6
0°-180°	7359.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1778	1778	1778	1778	1778	
5°	1986	1783	1580	1783	1986	198
15°	2441	1683	1171	1683	2441	674
25°	2034	1506	940	1506	2034	919
35°	1107	1236	780	1236	1107	720
45°	667	927	641	927	667	524
55°	469	634	496	634	469	420
65°	288	378	335	378	288	287
75°	142	178	170	178	142	152
85°	37	37	27	37	37	41
90°	35	1	35	1	35	17
95°	64	54	64	54	64	72
105°	230	223	230	223	230	242
115°	414	414	414	414	414	409
125°	605	603	605	603	605	539
135°	789	780	789	780	789	608
145°	957	947	957	947	957	598
155°	1091	1082	1091	1082	1091	502
165°	1179	1178	1179	1178	1179	332
175°	1221	1225	1221	1225	1221	116
180°	1227	1227	1227	1227	1227	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1860.1	1860.6	1861.7	1853.0	1851.9	1851.9	1844.2	1837.7	1830.1	1819.6	1820.8
5°	1985.8	1993.3	1996.1	1987.9	1975.6	1974.2	1962.7	1943.5	1925.7	1911.4	1901.1
7.5°	2135.9	2138.9	2132.3	2121.5	2112.3	2095.9	2074.3	2053.1	2023.5	1996.3	1976.0
10°	2249.6	2253.7	2242.1	2226.4	2213.4	2194.3	2162.8	2130.7	2091.8	2054.2	2024.1
12.5°	2336.0	2346.1	2331.2	2329.1	2306.9	2280.6	2243.2	2227.0	2172.1	2119.8	2087.6
15°	2441.0	2440.3	2441.7	2428.7	2412.3	2408.2	2368.6	2325.5	2248.3	2217.5	2164.2
17.5°	2410.7	2421.0	2425.8	2425.6	2425.3	2422.7	2409.9	2382.7	2344.0	2294.2	2232.7
20°	2338.5	2352.2	2354.2	2369.9	2378.8	2390.4	2395.2	2387.6	2363.7	2322.1	2268.8
22.5°	2227.0	2230.8	2237.2	2261.6	2280.9	2310.1	2325.2	2350.5	2341.4	2320.9	2276.4
25°	2033.7	2026.9	2050.8	2063.1	2107.5	2153.9	2187.5	2224.4	2257.2	2277.0	2264.0
27.5°	1801.6	1791.4	1827.2	1859.8	1896.0	1946.2	1998.4	2060.0	2111.3	2175.4	2197.4
30°	1605.9	1612.0	1646.2	1681.1	1735.7	1806.8	1865.5	1933.2	2006.3	2078.1	2128.0
32.5°	1394.9	1418.5	1440.1	1493.5	1541.7	1621.0	1707.0	1791.6	1882.8	1964.4	2041.7
35°	1107.1	1134.3	1164.5	1203.4	1271.0	1349.6	1433.7	1547.8	1672.2	1783.6	1875.2
37.5°	931.8	927.5	944.7	972.9	1027.6	1091.1	1187.8	1300.6	1447.0	1577.9	1707.0
40°	826.9	824.1	836.4	862.4	904.1	950.6	1035.3	1134.3	1270.3	1430.3	1584.0
42.5°	754.7	756.3	763.2	781.5	810.0	848.3	911.8	996.0	1120.6	1271.2	1436.5
45°	667.0	671.7	679.3	688.1	704.5	736.0	771.5	831.7	930.1	1055.8	1218.4
47.5°	603.8	604.0	611.6	619.4	629.1	646.8	675.8	713.5	783.0	885.4	1025.2
50°	569.9	565.2	570.6	576.8	587.0	599.3	618.4	654.0	700.4	783.1	900.0
52.5°	528.3	528.5	533.4	535.7	544.9	557.2	574.7	599.3	641.4	706.1	802.1
55°	468.8	472.2	474.9	479.0	487.2	496.1	509.8	526.2	559.0	607.5	678.6
57.5°	412.8	413.8	416.6	424.4	429.5	437.7	450.8	465.7	487.0	522.9	576.3
60°	374.5	374.5	380.0	383.3	390.2	398.4	408.7	423.0	442.1	471.5	514.6
62.5°	339.5	338.9	341.2	346.7	352.0	359.6	369.8	382.0	400.0	426.1	461.5
65°	288.4	287.0	291.1	292.5	297.9	305.5	313.7	326.6	341.0	360.2	391.6
67.5°	239.2	240.9	243.0	245.6	248.6	256.5	262.0	271.2	283.3	299.2	320.5
70°	211.9	211.9	211.9	213.9	218.0	222.1	227.6	235.1	246.7	260.4	279.5
72.5°	181.2	183.4	185.6	184.4	189.6	192.0	198.6	202.9	213.9	222.7	239.6
75°	142.1	142.1	142.1	145.5	147.6	149.6	153.7	157.8	163.4	174.2	183.2
77.5°	106.0	105.8	106.5	107.3	109.5	111.9	113.2	116.8	121.9	127.0	134.5
80°	82.0	83.4	84.1	85.4	85.4	86.8	87.5	92.3	95.7	99.1	103.9
82.5°	63.4	63.7	63.8	64.1	64.6	65.5	67.2	68.8	70.0	72.9	76.5
85°	36.9	36.2	36.2	37.5	36.9	36.9	38.3	39.6	39.6	40.3	42.4
87.5°	21.2	21.2	21.7	21.1	21.0	21.7	21.8	21.3	21.9	22.6	22.1
90°	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3	35.8	36.3	31.2
92.5°	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1	33.0	32.9	31.7
95°	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3	66.3	66.3	65.8
97.5°	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5	111.5	111.5	110.6
100°	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9	142.9	142.9	142.2
102.5°	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3	177.1	176.9	176.0
105°	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8	228.4	227.8	227.4
107.5°	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4	284.2	284.0	284.0
110°	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2	322.2	322.2	322.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0	360.5	361.1	361.2
115°	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0	418.2	418.5	418.9
117.5°	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1	474.7	475.2	476.5
120°	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7	511.7	511.7	513.5
122.5°	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4	550.9	551.4	552.8
125°	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7	608.3	609.0	609.8
127.5°	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3	664.1	664.9	665.8
130°	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3	701.8	702.3	702.8
132.5°	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3	739.4	740.4	740.3
135°	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0	793.2	793.4	793.0
137.5°	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3	845.4	845.6	845.0
140°	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4	880.4	880.4	879.3
142.5°	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3	912.1	912.0	911.2
145°	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6	960.4	960.2	958.8
147.5°	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1	1002.6	1002.0	1001.1
150°	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6	1027.6
152.5°	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1	1054.0
155°	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9	1089.8	1088.6	1088.0
157.5°	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4	1120.9	1119.3	1118.8
160°	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1	1139.7	1138.4	1138.1
162.5°	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1	1156.5	1154.9	1154.7
165°	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9	1178.3	1176.7	1176.7
167.5°	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9	1196.3	1194.7	1194.7
170°	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8	1206.2	1204.6	1204.9
172.5°	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3	1213.7	1212.1	1212.3
175°	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4	1221.8	1220.1	1220.7
177.5°	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9	1225.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1824.6	1820.2	1817.5	1807.7	1798.8	1790.1	1787.4	1788.5	1776.5	1765.0	1760.1
5°	1895.7	1882.0	1869.0	1850.6	1828.7	1804.7	1792.4	1782.9	1759.0	1733.0	1718.0
7.5°	1959.4	1939.8	1914.8	1880.1	1848.2	1810.6	1786.7	1765.5	1730.5	1693.9	1671.5
10°	1998.1	1971.5	1939.4	1897.0	1858.1	1812.3	1780.1	1748.0	1707.0	1663.3	1635.9
12.5°	2031.5	1995.6	1964.0	1909.6	1863.5	1806.2	1768.2	1722.9	1679.7	1627.7	1601.0
15°	2110.9	2044.6	1984.5	1923.0	1866.3	1786.3	1743.9	1683.1	1626.4	1562.2	1531.4
17.5°	2172.3	2097.7	2003.0	1924.9	1858.8	1770.2	1708.0	1635.1	1568.1	1494.7	1452.9
20°	2207.3	2121.8	2020.0	1927.1	1847.8	1746.7	1679.0	1604.5	1526.0	1443.2	1398.2
22.5°	2228.0	2138.2	2037.6	1918.9	1826.0	1727.5	1642.4	1560.8	1481.1	1391.9	1344.6
25°	2234.6	2152.6	2046.0	1912.1	1798.6	1687.2	1584.7	1505.5	1409.1	1325.7	1256.7
27.5°	2202.1	2143.3	2040.8	1899.2	1767.0	1636.8	1522.5	1432.7	1331.1	1240.5	1171.2
30°	2162.1	2128.0	2028.2	1886.1	1741.9	1601.8	1476.0	1374.2	1273.1	1181.5	1110.4
32.5°	2100.4	2093.0	2005.3	1867.5	1715.1	1557.6	1427.5	1324.5	1212.5	1122.5	1054.7
35°	1979.1	2011.8	1956.5	1826.0	1664.6	1494.5	1353.7	1236.2	1120.1	1033.9	970.4
37.5°	1816.4	1897.8	1883.4	1765.1	1596.6	1425.9	1270.5	1147.6	1037.0	950.0	887.7
40°	1704.3	1808.2	1823.2	1718.7	1548.5	1372.9	1208.2	1085.8	977.9	898.7	835.7
42.5°	1584.0	1705.4	1746.7	1662.9	1496.0	1317.1	1152.4	1025.7	918.8	841.8	786.0
45°	1382.4	1543.0	1617.6	1569.7	1408.5	1225.3	1055.8	927.3	830.3	757.9	714.8
47.5°	1194.0	1369.5	1469.6	1452.7	1311.0	1129.6	962.1	838.7	744.3	686.5	648.0
50°	1060.6	1241.0	1361.9	1367.4	1241.0	1061.2	893.1	776.9	690.2	636.2	604.8
52.5°	944.7	1116.9	1248.8	1277.7	1162.8	990.2	831.3	715.8	639.4	589.8	561.6
55°	793.4	939.0	1085.2	1138.4	1046.2	882.3	735.3	633.5	561.7	527.5	502.9
57.5°	659.6	781.0	916.0	974.9	918.0	777.7	639.9	551.4	493.3	463.3	444.4
60°	589.1	684.7	805.0	875.4	826.2	701.2	580.9	496.8	449.0	422.3	404.6
62.5°	523.4	608.2	709.9	774.3	747.4	629.5	521.8	447.6	406.4	381.3	368.5
65°	431.9	498.8	577.5	636.9	619.1	529.6	441.5	377.9	345.1	325.3	315.0
67.5°	355.6	404.0	458.5	510.6	496.2	432.8	362.0	312.5	288.1	271.0	264.8
70°	307.6	344.4	393.0	434.6	423.0	371.0	315.0	272.7	251.5	237.1	231.0
72.5°	261.6	291.9	329.0	363.0	355.2	312.0	265.3	233.3	217.0	203.8	198.8
75°	197.5	220.7	243.3	265.8	263.8	230.3	203.0	178.3	165.4	155.2	153.1
77.5°	145.8	158.8	174.2	187.5	183.8	164.7	143.2	129.1	119.6	112.7	111.6
80°	111.4	118.9	129.8	139.4	134.6	126.4	109.3	99.1	92.3	85.4	82.7
82.5°	80.8	88.3	94.9	100.0	96.4	88.7	78.2	71.2	67.1	62.4	61.3
85°	42.4	46.5	49.2	50.6	49.2	44.4	39.6	36.9	33.5	31.5	30.8
87.5°	21.7	20.6	19.6	19.9	17.7	17.2	14.4	12.2	12.2	12.2	11.7
90°	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1	3.8	6.6	9.4
92.5°	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5	20.4	22.5	24.5
95°	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9	56.2	58.5	60.7
97.5°	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4	100.4	102.5	104.5
100°	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5	133.4	135.3	137.1
102.5°	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4	167.8	169.3	170.8
105°	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7	223.4	224.1	224.8
107.5°	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5	280.4	281.5	282.5
110°	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9	317.3	318.7	320.0





TEST NUMBER: P331457-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7	357.0	358.5	359.8
115°	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3	415.7	417.1	418.5
117.5°	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7	474.6	476.4	478.2
120°	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	513.5	515.4	517.2
122.5°	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3	549.6	551.7	553.9
125°	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8	604.9	607.0	609.0
127.5°	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9	659.5	662.2	664.8
130°	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9	693.8	696.9	699.8
132.5°	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0	731.5	733.9	736.3
135°	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0	782.5	785.1	787.6
137.5°	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6	835.7	837.8	839.8
140°	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9	868.0	870.0	872.2
142.5°	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1	901.2	903.2	905.3
145°	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7	948.3	949.9	951.5
147.5°	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2	991.1	993.0	995.0
150°	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2	1019.6	1020.9	1022.3
152.5°	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8	1045.3	1046.6	1048.0
155°	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4	1083.1	1083.8	1084.5
157.5°	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4	1115.8	1116.2	1116.7
160°	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2	1135.7	1136.1	1136.6
162.5°	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4	1153.5	1153.6	1153.7
165°	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7	1177.5	1177.2	1177.0
167.5°	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0	1197.3	1196.6	1196.0
170°	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8	1208.1	1207.4	1206.7
172.5°	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2	1215.6	1214.9	1214.2
175°	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4	1224.7	1224.0	1223.2
177.5°	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0	1228.5	1228.0	1227.4
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331457-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1754.6	1751.3	1739.8	1733.8	1724.0	1714.7	1708.7	1711.5	1713.6	1712.5	1710.8
5°	1704.3	1691.3	1671.5	1654.4	1642.1	1619.6	1610.0	1605.3	1601.2	1596.3	1591.5
7.5°	1644.4	1624.0	1595.5	1571.2	1548.2	1520.2	1504.2	1494.7	1484.8	1474.0	1464.5
10°	1601.8	1573.1	1543.0	1508.9	1481.6	1456.3	1433.7	1418.6	1405.0	1392.0	1382.4
12.5°	1557.0	1523.9	1486.7	1440.0	1409.9	1373.7	1370.3	1343.8	1322.4	1314.4	1303.1
15°	1485.6	1439.1	1392.0	1336.7	1312.8	1280.0	1259.5	1238.9	1220.5	1207.5	1204.1
17.5°	1404.6	1344.4	1297.5	1257.8	1218.6	1185.0	1166.1	1149.7	1134.5	1117.1	1114.8
20°	1342.8	1290.8	1239.7	1204.8	1164.5	1130.2	1107.1	1090.7	1077.6	1067.4	1058.5
22.5°	1284.3	1227.4	1180.5	1142.5	1102.7	1075.0	1056.8	1040.9	1030.1	1018.8	1010.4
25°	1190.4	1146.0	1094.8	1051.7	1018.9	1001.1	986.1	972.4	965.6	958.1	948.5
27.5°	1108.3	1058.9	1010.9	977.6	948.8	933.1	922.4	913.1	906.7	902.3	896.9
30°	1050.3	1000.4	962.9	930.1	906.2	890.5	883.6	878.2	870.6	867.9	865.1
32.5°	994.5	949.6	917.5	889.0	866.2	856.0	849.7	844.8	838.9	836.2	830.7
35°	915.7	878.2	846.7	831.0	812.5	803.6	798.9	792.0	786.6	783.8	783.1
37.5°	841.5	808.9	788.2	767.9	760.2	754.7	748.1	743.5	741.9	741.5	740.7
40°	793.4	766.7	748.3	731.9	728.4	720.2	714.8	710.7	710.7	711.4	710.7
42.5°	749.7	725.8	709.4	695.3	691.3	686.3	680.9	680.6	681.7	684.0	681.7
45°	683.4	666.3	654.7	647.8	640.3	635.5	634.8	636.9	637.6	638.3	640.3
47.5°	622.4	611.1	600.6	593.0	589.8	588.9	588.1	591.7	594.9	596.2	599.3
50°	586.3	573.4	564.5	559.6	557.0	555.5	557.0	561.1	563.7	567.2	569.3
52.5°	545.9	536.7	530.6	526.9	525.8	526.6	526.9	531.5	535.9	537.2	538.1
55°	490.0	483.1	481.8	475.6	478.3	477.7	481.1	483.8	487.9	492.0	492.7
57.5°	434.2	428.7	425.1	425.6	426.4	429.4	432.3	437.1	441.5	445.9	446.2
60°	397.1	394.3	392.3	392.3	393.6	397.7	401.1	405.9	408.7	411.3	413.4
62.5°	363.1	360.4	358.4	359.4	363.0	365.4	369.4	372.0	374.8	377.5	378.4
65°	309.6	308.2	310.2	311.7	312.3	315.8	320.5	322.5	325.3	326.6	331.4
67.5°	260.2	260.5	260.2	262.2	266.1	266.9	271.4	276.3	276.8	279.4	282.5
70°	226.9	228.3	229.6	231.0	234.4	235.8	239.2	241.2	244.0	246.0	248.1
72.5°	196.3	196.5	197.9	197.6	200.5	203.5	206.3	208.4	211.2	213.7	215.8
75°	151.1	151.1	152.4	153.1	156.5	159.9	159.3	160.6	163.4	166.0	167.5
77.5°	110.3	108.8	110.3	111.0	112.1	114.9	115.5	117.4	120.6	119.6	121.1
80°	84.1	82.0	84.1	84.7	84.7	88.2	88.2	89.5	91.6	89.5	91.6
82.5°	60.0	59.0	60.5	60.7	61.8	61.9	63.0	63.3	65.4	64.4	65.4
85°	30.1	29.4	30.1	29.4	30.1	30.8	30.8	30.1	30.1	31.5	29.4
87.5°	11.7	11.9	12.4	13.5	13.9	14.4	13.7	13.6	13.6	12.3	12.3
90°	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3	34.9	34.4	34.3
92.5°	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1	33.2	33.3	33.3
95°	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3	66.3	66.3	66.1
97.5°	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5	111.5	111.5	111.5
100°	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9	142.9	142.9	142.9
102.5°	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3	177.5	177.6	177.6
105°	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8	229.3	229.7	230.0
107.5°	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4	284.5	284.7	284.3
110°	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	321.8



TEST NUMBER: P331457-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0	359.4	358.9	358.4
115°	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0	417.8	417.5	417.1
117.5°	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1	473.6	473.1	472.4
120°	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7	511.7	511.7	511.3
122.5°	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4	549.8	549.2	548.8
125°	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7	607.0	606.3	605.8
127.5°	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3	662.5	661.6	660.8
130°	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3	700.9	700.4	699.7
132.5°	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3	737.4	736.4	735.5
135°	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0	792.7	792.5	792.0
137.5°	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3	845.1	844.9	844.4
140°	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4	880.4	880.4	879.9
142.5°	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3	912.5	912.7	912.3
145°	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6	960.9	961.1	960.7
147.5°	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1	1003.5	1004.1	1003.9
150°	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4
152.5°	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5
155°	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9	1092.1	1093.2	1093.4
157.5°	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4	1124.0	1125.5	1125.8
160°	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1	1142.5	1143.9	1144.1
162.5°	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1	1159.6	1161.2	1161.4
165°	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9	1181.5	1183.1	1183.3
167.5°	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9	1199.5	1201.1	1201.3
170°	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8	1209.4	1211.0	1211.2
172.5°	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3	1216.9	1218.5	1218.6
175°	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4	1225.0	1226.6	1226.7
177.5°	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331457-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1705.4	1704.3	1704.3	1699.4	1704.3	1704.3	1705.4	1710.8	1712.5	1713.6	1711.5
5°	1582.0	1579.9	1576.5	1579.9	1576.5	1579.9	1582.0	1591.5	1596.3	1601.2	1605.3
7.5°	1459.9	1451.7	1450.5	1442.4	1450.5	1451.7	1459.9	1464.5	1474.0	1484.8	1494.7
10°	1370.8	1365.4	1364.7	1351.7	1364.7	1365.4	1370.8	1382.4	1392.0	1405.0	1418.6
12.5°	1303.1	1289.9	1292.5	1285.0	1292.5	1289.9	1303.1	1303.1	1314.4	1322.4	1343.8
15°	1185.6	1185.6	1182.9	1171.3	1182.9	1185.6	1185.6	1204.1	1207.5	1220.5	1238.9
17.5°	1101.4	1099.9	1093.4	1096.6	1093.4	1099.9	1101.4	1114.8	1117.1	1134.5	1149.7
20°	1051.0	1047.0	1038.8	1038.8	1038.8	1047.0	1051.0	1058.5	1067.4	1077.6	1090.7
22.5°	1003.4	1003.2	994.4	997.2	994.4	1003.2	1003.4	1010.4	1018.8	1030.1	1040.9
25°	947.8	942.4	938.3	940.3	938.3	942.4	947.8	948.5	958.1	965.6	972.4
27.5°	895.1	892.1	891.8	886.2	891.8	892.1	895.1	896.9	902.3	906.7	913.1
30°	864.4	857.6	859.0	855.6	859.0	857.6	864.4	865.1	867.9	870.6	878.2
32.5°	829.5	827.0	825.6	822.8	825.6	827.0	829.5	830.7	836.2	838.9	844.8
35°	781.8	782.5	779.0	780.4	779.0	782.5	781.8	783.1	783.8	786.6	792.0
37.5°	740.1	742.3	740.7	741.0	740.7	742.3	740.1	740.7	741.5	741.9	743.5
40°	712.7	712.7	712.7	714.8	712.7	712.7	712.7	710.7	711.4	710.7	710.7
42.5°	686.5	685.5	684.3	684.2	684.3	685.5	686.5	681.7	684.0	681.7	680.6
45°	641.7	643.7	644.4	641.0	644.4	643.7	641.7	640.3	638.3	637.6	636.9
47.5°	601.1	601.4	601.1	604.1	601.1	601.4	601.1	599.3	596.2	594.9	591.7
50°	572.7	571.3	572.7	571.3	572.7	571.3	572.7	569.3	567.2	563.7	561.1
52.5°	542.6	542.9	542.1	541.8	542.1	542.9	542.6	538.1	537.2	535.9	531.5
55°	495.4	496.8	496.1	496.1	496.1	496.8	495.4	492.7	492.0	487.9	483.8
57.5°	446.7	447.9	448.8	445.9	448.8	447.9	446.7	446.2	445.9	441.5	437.1
60°	412.8	416.2	415.4	414.1	415.4	416.2	412.8	413.4	411.3	408.7	405.9
62.5°	381.6	382.8	382.7	382.5	382.7	382.8	381.6	378.4	377.5	374.8	372.0
65°	333.5	334.8	332.8	334.8	332.8	334.8	333.5	331.4	326.6	325.3	322.5
67.5°	281.7	282.1	283.6	284.5	283.6	282.1	281.7	282.5	279.4	276.8	276.3
70°	249.4	248.8	250.8	252.9	250.8	248.8	249.4	248.1	246.0	244.0	241.2
72.5°	215.5	217.0	216.3	217.8	216.3	217.0	215.5	215.8	213.7	211.2	208.4
75°	166.0	168.1	167.5	169.5	167.5	168.1	166.0	167.5	166.0	163.4	160.6
77.5°	120.0	120.3	120.0	121.1	120.0	120.3	120.0	121.1	119.6	120.6	117.4
80°	91.6	90.2	88.8	91.6	88.8	90.2	91.6	91.6	89.5	91.6	89.5
82.5°	63.7	64.5	63.1	63.1	63.1	64.5	63.7	65.4	64.4	65.4	63.3
85°	29.4	28.7	27.4	27.4	27.4	28.7	29.4	29.4	31.5	30.1	30.1
87.5°	12.4	11.9	11.9	11.4	11.9	11.9	12.4	12.3	12.3	13.6	13.6
90°	34.5	34.8	35.0	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3
92.5°	33.4	33.4	33.5	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1
95°	65.6	65.2	64.6	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3
97.5°	111.4	111.4	111.3	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5
100°	142.6	142.4	142.1	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9
102.5°	177.4	177.2	176.9	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3
105°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8
107.5°	283.3	282.2	281.2	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4
110°	321.1	320.4	319.7	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	357.8	357.3	356.9	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0
115°	416.4	415.7	415.0	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0
117.5°	471.7	471.0	470.3	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1
120°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7
122.5°	548.2	547.7	547.2	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4
125°	605.6	605.4	605.1	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7
127.5°	660.1	659.4	658.7	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3
130°	698.8	697.9	697.0	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3
132.5°	734.8	734.0	733.3	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3
135°	791.3	790.7	790.0	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0
137.5°	843.4	842.5	841.6	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3
140°	879.0	878.2	877.2	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4
142.5°	911.3	910.4	909.5	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3
145°	959.8	958.9	958.0	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6
147.5°	1003.0	1002.1	1001.2	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1
150°	1030.6	1029.9	1029.2	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9
152.5°	1057.7	1056.9	1056.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9
155°	1092.8	1092.1	1091.4	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9
157.5°	1124.6	1123.6	1122.5	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4
160°	1143.2	1142.3	1141.3	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1
162.5°	1160.3	1159.2	1158.1	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1
165°	1182.2	1181.1	1179.9	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9
167.5°	1200.2	1198.9	1197.7	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9
170°	1209.8	1208.4	1207.0	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8
172.5°	1217.3	1215.8	1214.5	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3
175°	1225.4	1224.0	1222.6	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4
177.5°	1228.2	1227.2	1226.0	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1708.7	1714.7	1724.0	1733.8	1739.8	1751.3	1754.6	1760.1	1765.0	1776.5	1788.5
5°	1610.0	1619.6	1642.1	1654.4	1671.5	1691.3	1704.3	1718.0	1733.0	1759.0	1782.9
7.5°	1504.2	1520.2	1548.2	1571.2	1595.5	1624.0	1644.4	1671.5	1693.9	1730.5	1765.5
10°	1433.7	1456.3	1481.6	1508.9	1543.0	1573.1	1601.8	1635.9	1663.3	1707.0	1748.0
12.5°	1370.3	1373.7	1409.9	1440.0	1486.7	1523.9	1557.0	1601.0	1627.7	1679.7	1722.9
15°	1259.5	1280.0	1312.8	1336.7	1392.0	1439.1	1485.6	1531.4	1562.2	1626.4	1683.1
17.5°	1166.1	1185.0	1218.6	1257.8	1297.5	1344.4	1404.6	1452.9	1494.7	1568.1	1635.1
20°	1107.1	1130.2	1164.5	1204.8	1239.7	1290.8	1342.8	1398.2	1443.2	1526.0	1604.5
22.5°	1056.8	1075.0	1102.7	1142.5	1180.5	1227.4	1284.3	1344.6	1391.9	1481.1	1560.8
25°	986.1	1001.1	1018.9	1051.7	1094.8	1146.0	1190.4	1256.7	1325.7	1409.1	1505.5
27.5°	922.4	933.1	948.8	977.6	1010.9	1058.9	1108.3	1171.2	1240.5	1331.1	1432.7
30°	883.6	890.5	906.2	930.1	962.9	1000.4	1050.3	1110.4	1181.5	1273.1	1374.2
32.5°	849.7	856.0	866.2	889.0	917.5	949.6	994.5	1054.7	1122.5	1212.5	1324.5
35°	798.9	803.6	812.5	831.0	846.7	878.2	915.7	970.4	1033.9	1120.1	1236.2
37.5°	748.1	754.7	760.2	767.9	788.2	808.9	841.5	887.7	950.0	1037.0	1147.6
40°	714.8	720.2	728.4	731.9	748.3	766.7	793.4	835.7	898.7	977.9	1085.8
42.5°	680.9	686.3	691.3	695.3	709.4	725.8	749.7	786.0	841.8	918.8	1025.7
45°	634.8	635.5	640.3	647.8	654.7	666.3	683.4	714.8	757.9	830.3	927.3
47.5°	588.1	588.9	589.8	593.0	600.6	611.1	622.4	648.0	686.5	744.3	838.7
50°	557.0	555.5	557.0	559.6	564.5	573.4	586.3	604.8	636.2	690.2	776.9
52.5°	526.9	526.6	525.8	526.9	530.6	536.7	545.9	561.6	589.8	639.4	715.8
55°	481.1	477.7	478.3	475.6	481.8	483.1	490.0	502.9	527.5	561.7	633.5
57.5°	432.3	429.4	426.4	425.6	425.1	428.7	434.2	444.4	463.3	493.3	551.4
60°	401.1	397.7	393.6	392.3	392.3	394.3	397.1	404.6	422.3	449.0	496.8
62.5°	369.4	365.4	363.0	359.4	358.4	360.4	363.1	368.5	381.3	406.4	447.6
65°	320.5	315.8	312.3	311.7	310.2	308.2	309.6	315.0	325.3	345.1	377.9
67.5°	271.4	266.9	266.1	262.2	260.2	260.5	260.2	264.8	271.0	288.1	312.5
70°	239.2	235.8	234.4	231.0	229.6	228.3	226.9	231.0	237.1	251.5	272.7
72.5°	206.3	203.5	200.5	197.6	197.9	196.5	196.3	198.8	203.8	217.0	233.3
75°	159.3	159.9	156.5	153.1	152.4	151.1	151.1	153.1	155.2	165.4	178.3
77.5°	115.5	114.9	112.1	111.0	110.3	108.8	110.3	111.6	112.7	119.6	129.1
80°	88.2	88.2	84.7	84.7	84.1	82.0	84.1	82.7	85.4	92.3	99.1
82.5°	63.0	61.9	61.8	60.7	60.5	59.0	60.0	61.3	62.4	67.1	71.2
85°	30.8	30.8	30.1	29.4	30.1	29.4	30.1	30.8	31.5	33.5	36.9
87.5°	13.7	14.4	13.9	13.5	12.4	11.9	11.7	11.7	12.2	12.2	12.2
90°	35.8	36.3	31.2	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1
92.5°	33.0	32.9	31.7	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5
95°	66.3	66.3	65.8	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9
97.5°	111.5	111.5	110.6	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4
100°	142.9	142.9	142.2	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5
102.5°	177.1	176.9	176.0	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4
105°	228.4	227.8	227.4	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7
107.5°	284.2	284.0	284.0	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5
110°	322.2	322.2	322.2	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.5	361.1	361.2	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7
115°	418.2	418.5	418.9	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3
117.5°	474.7	475.2	476.5	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7
120°	511.7	511.7	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7
122.5°	550.9	551.4	552.8	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3
125°	608.3	609.0	609.8	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8
127.5°	664.1	664.9	665.8	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9
130°	701.8	702.3	702.8	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9
132.5°	739.4	740.4	740.3	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0
135°	793.2	793.4	793.0	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0
137.5°	845.4	845.6	845.0	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6
140°	880.4	880.4	879.3	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9
142.5°	912.1	912.0	911.2	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1
145°	960.4	960.2	958.8	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7
147.5°	1002.6	1002.0	1001.1	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2
150°	1029.2	1028.6	1027.6	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2
152.5°	1056.0	1055.1	1054.0	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8
155°	1089.8	1088.6	1088.0	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4
157.5°	1120.9	1119.3	1118.8	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4
160°	1139.7	1138.4	1138.1	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2
162.5°	1156.5	1154.9	1154.7	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4
165°	1178.3	1176.7	1176.7	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7
167.5°	1196.3	1194.7	1194.7	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0
170°	1206.2	1204.6	1204.9	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8
172.5°	1213.7	1212.1	1212.3	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2
175°	1221.8	1220.1	1220.7	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4
177.5°	1226.0	1224.9	1225.3	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1787.4	1790.1	1798.8	1807.7	1817.5	1820.2	1824.6	1820.8	1819.6	1830.1	1837.7
5°	1792.4	1804.7	1828.7	1850.6	1869.0	1882.0	1895.7	1901.1	1911.4	1925.7	1943.5
7.5°	1786.7	1810.6	1848.2	1880.1	1914.8	1939.8	1959.4	1976.0	1996.3	2023.5	2053.1
10°	1780.1	1812.3	1858.1	1897.0	1939.4	1971.5	1998.1	2024.1	2054.2	2091.8	2130.7
12.5°	1768.2	1806.2	1863.5	1909.6	1964.0	1995.6	2031.5	2087.6	2119.8	2172.1	2227.0
15°	1743.9	1786.3	1866.3	1923.0	1984.5	2044.6	2110.9	2164.2	2217.5	2248.3	2325.5
17.5°	1708.0	1770.2	1858.8	1924.9	2003.0	2097.7	2172.3	2232.7	2294.2	2344.0	2382.7
20°	1679.0	1746.7	1847.8	1927.1	2020.0	2121.8	2207.3	2268.8	2322.1	2363.7	2387.6
22.5°	1642.4	1727.5	1826.0	1918.9	2037.6	2138.2	2228.0	2276.4	2320.9	2341.4	2350.5
25°	1584.7	1687.2	1798.6	1912.1	2046.0	2152.6	2234.6	2264.0	2277.0	2257.2	2224.4
27.5°	1522.5	1636.8	1767.0	1899.2	2040.8	2143.3	2202.1	2197.4	2175.4	2111.3	2060.0
30°	1476.0	1601.8	1741.9	1886.1	2028.2	2128.0	2162.1	2128.0	2078.1	2006.3	1933.2
32.5°	1427.5	1557.6	1715.1	1867.5	2005.3	2093.0	2100.4	2041.7	1964.4	1882.8	1791.6
35°	1353.7	1494.5	1664.6	1826.0	1956.5	2011.8	1979.1	1875.2	1783.6	1672.2	1547.8
37.5°	1270.5	1425.9	1596.6	1765.1	1883.4	1897.8	1816.4	1707.0	1577.9	1447.0	1300.6
40°	1208.2	1372.9	1548.5	1718.7	1823.2	1808.2	1704.3	1584.0	1430.3	1270.3	1134.3
42.5°	1152.4	1317.1	1496.0	1662.9	1746.7	1705.4	1584.0	1436.5	1271.2	1120.6	996.0
45°	1055.8	1225.3	1408.5	1569.7	1617.6	1543.0	1382.4	1218.4	1055.8	930.1	831.7
47.5°	962.1	1129.6	1311.0	1452.7	1469.6	1369.5	1194.0	1025.2	885.4	783.0	713.5
50°	893.1	1061.2	1241.0	1367.4	1361.9	1241.0	1060.6	900.0	783.1	700.4	654.0
52.5°	831.3	990.2	1162.8	1277.7	1248.8	1116.9	944.7	802.1	706.1	641.4	599.3
55°	735.3	882.3	1046.2	1138.4	1085.2	939.0	793.4	678.6	607.5	559.0	526.2
57.5°	639.9	777.7	918.0	974.9	916.0	781.0	659.6	576.3	522.9	487.0	465.7
60°	580.9	701.2	826.2	875.4	805.0	684.7	589.1	514.6	471.5	442.1	423.0
62.5°	521.8	629.5	747.4	774.3	709.9	608.2	523.4	461.5	426.1	400.0	382.0
65°	441.5	529.6	619.1	636.9	577.5	498.8	431.9	391.6	360.2	341.0	326.6
67.5°	362.0	432.8	496.2	510.6	458.5	404.0	355.6	320.5	299.2	283.3	271.2
70°	315.0	371.0	423.0	434.6	393.0	344.4	307.6	279.5	260.4	246.7	235.1
72.5°	265.3	312.0	355.2	363.0	329.0	291.9	261.6	239.6	222.7	213.9	202.9
75°	203.0	230.3	263.8	265.8	243.3	220.7	197.5	183.2	174.2	163.4	157.8
77.5°	143.2	164.7	183.8	187.5	174.2	158.8	145.8	134.5	127.0	121.9	116.8
80°	109.3	126.4	134.6	139.4	129.8	118.9	111.4	103.9	99.1	95.7	92.3
82.5°	78.2	88.7	96.4	100.0	94.9	88.3	80.8	76.5	72.9	70.0	68.8
85°	39.6	44.4	49.2	50.6	49.2	46.5	42.4	42.4	40.3	39.6	39.6
87.5°	14.4	17.2	17.7	19.9	19.6	20.6	21.7	22.1	22.6	21.9	21.3
90°	3.8	6.6	9.4	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3
92.5°	20.4	22.5	24.5	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1
95°	56.2	58.5	60.7	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3
97.5°	100.4	102.5	104.5	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5
100°	133.4	135.3	137.1	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9
102.5°	167.8	169.3	170.8	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3
105°	223.4	224.1	224.8	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8
107.5°	280.4	281.5	282.5	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4
110°	317.3	318.7	320.0	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.0	358.5	359.8	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0
115°	415.7	417.1	418.5	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0
117.5°	474.6	476.4	478.2	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1
120°	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7
122.5°	549.6	551.7	553.9	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4
125°	604.9	607.0	609.0	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7
127.5°	659.5	662.2	664.8	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3
130°	693.8	696.9	699.8	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3
132.5°	731.5	733.9	736.3	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3
135°	782.5	785.1	787.6	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0
137.5°	835.7	837.8	839.8	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3
140°	868.0	870.0	872.2	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4
142.5°	901.2	903.2	905.3	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3
145°	948.3	949.9	951.5	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6
147.5°	991.1	993.0	995.0	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1
150°	1019.6	1020.9	1022.3	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9
152.5°	1045.3	1046.6	1048.0	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9
155°	1083.1	1083.8	1084.5	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9
157.5°	1115.8	1116.2	1116.7	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4
160°	1135.7	1136.1	1136.6	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1
162.5°	1153.5	1153.6	1153.7	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1
165°	1177.5	1177.2	1177.0	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9
167.5°	1197.3	1196.6	1196.0	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9
170°	1208.1	1207.4	1206.7	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8
172.5°	1215.6	1214.9	1214.2	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3
175°	1224.7	1224.0	1223.2	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4
177.5°	1228.5	1228.0	1227.4	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1844.2	1851.9	1851.9	1853.0	1861.7	1860.6	1860.1
5°	1962.7	1974.2	1975.6	1987.9	1996.1	1993.3	1985.8
7.5°	2074.3	2095.9	2112.3	2121.5	2132.3	2138.9	2135.9
10°	2162.8	2194.3	2213.4	2226.4	2242.1	2253.7	2249.6
12.5°	2243.2	2280.6	2306.9	2329.1	2331.2	2346.1	2336.0
15°	2368.6	2408.2	2412.3	2428.7	2441.7	2440.3	2441.0
17.5°	2409.9	2422.7	2425.3	2425.6	2425.8	2421.0	2410.7
20°	2395.2	2390.4	2378.8	2369.9	2354.2	2352.2	2338.5
22.5°	2325.2	2310.1	2280.9	2261.6	2237.2	2230.8	2227.0
25°	2187.5	2153.9	2107.5	2063.1	2050.8	2026.9	2033.7
27.5°	1998.4	1946.2	1896.0	1859.8	1827.2	1791.4	1801.6
30°	1865.5	1806.8	1735.7	1681.1	1646.2	1612.0	1605.9
32.5°	1707.0	1621.0	1541.7	1493.5	1440.1	1418.5	1394.9
35°	1433.7	1349.6	1271.0	1203.4	1164.5	1134.3	1107.1
37.5°	1187.8	1091.1	1027.6	972.9	944.7	927.5	931.8
40°	1035.3	950.6	904.1	862.4	836.4	824.1	826.9
42.5°	911.8	848.3	810.0	781.5	763.2	756.3	754.7
45°	771.5	736.0	704.5	688.1	679.3	671.7	667.0
47.5°	675.8	646.8	629.1	619.4	611.6	604.0	603.8
50°	618.4	599.3	587.0	576.8	570.6	565.2	569.9
52.5°	574.7	557.2	544.9	535.7	533.4	528.5	528.3
55°	509.8	496.1	487.2	479.0	474.9	472.2	468.8
57.5°	450.8	437.7	429.5	424.4	416.6	413.8	412.8
60°	408.7	398.4	390.2	383.3	380.0	374.5	374.5
62.5°	369.8	359.6	352.0	346.7	341.2	338.9	339.5
65°	313.7	305.5	297.9	292.5	291.1	287.0	288.4
67.5°	262.0	256.5	248.6	245.6	243.0	240.9	239.2
70°	227.6	222.1	218.0	213.9	211.9	211.9	211.9
72.5°	198.6	192.0	189.6	184.4	185.6	183.4	181.2
75°	153.7	149.6	147.6	145.5	142.1	142.1	142.1
77.5°	113.2	111.9	109.5	107.3	106.5	105.8	106.0
80°	87.5	86.8	85.4	85.4	84.1	83.4	82.0
82.5°	67.2	65.5	64.6	64.1	63.8	63.7	63.4
85°	38.3	36.9	36.9	37.5	36.2	36.2	36.9
87.5°	21.8	21.7	21.0	21.1	21.7	21.2	21.2
90°	34.9	34.4	34.3	34.5	34.8	35.0	35.2
92.5°	33.2	33.3	33.3	33.4	33.4	33.5	33.5
95°	66.3	66.3	66.1	65.6	65.2	64.6	64.2
97.5°	111.5	111.5	111.5	111.4	111.4	111.3	111.3
100°	142.9	142.9	142.9	142.6	142.4	142.1	141.9
102.5°	177.5	177.6	177.6	177.4	177.2	176.9	176.7
105°	229.3	229.7	230.0	230.0	230.0	230.0	230.0
107.5°	284.5	284.7	284.3	283.3	282.2	281.2	280.1
110°	322.2	322.2	321.8	321.1	320.4	319.7	319.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	359.4	358.9	358.4	357.8	357.3	356.9	356.3
115°	417.8	417.5	417.1	416.4	415.7	415.0	414.3
117.5°	473.6	473.1	472.4	471.7	471.0	470.3	469.7
120°	511.7	511.7	511.3	510.7	510.0	509.3	508.5
122.5°	549.8	549.2	548.8	548.2	547.7	547.2	546.7
125°	607.0	606.3	605.8	605.6	605.4	605.1	604.9
127.5°	662.5	661.6	660.8	660.1	659.4	658.7	657.9
130°	700.9	700.4	699.7	698.8	697.9	697.0	696.1
132.5°	737.4	736.4	735.5	734.8	734.0	733.3	732.5
135°	792.7	792.5	792.0	791.3	790.7	790.0	789.3
137.5°	845.1	844.9	844.4	843.4	842.5	841.6	840.6
140°	880.4	880.4	879.9	879.0	878.2	877.2	876.3
142.5°	912.5	912.7	912.3	911.3	910.4	909.5	908.6
145°	960.9	961.1	960.7	959.8	958.9	958.0	957.1
147.5°	1003.5	1004.1	1003.9	1003.0	1002.1	1001.2	1000.4
150°	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6
152.5°	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1
155°	1092.1	1093.2	1093.4	1092.8	1092.1	1091.4	1090.7
157.5°	1124.0	1125.5	1125.8	1124.6	1123.6	1122.5	1121.3
160°	1142.5	1143.9	1144.1	1143.2	1142.3	1141.3	1140.4
162.5°	1159.6	1161.2	1161.4	1160.3	1159.2	1158.1	1157.0
165°	1181.5	1183.1	1183.3	1182.2	1181.1	1179.9	1178.8
167.5°	1199.5	1201.1	1201.3	1200.2	1198.9	1197.7	1196.6
170°	1209.4	1211.0	1211.2	1209.8	1208.4	1207.0	1205.7
172.5°	1216.9	1218.5	1218.6	1217.3	1215.8	1214.5	1213.1
175°	1225.0	1226.6	1226.7	1225.4	1224.0	1222.6	1221.2
177.5°	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4

(END OF REPORT)