

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: P333449-840

Luminaire Tested: **S125DIW-S1090D1340U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333449-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIW-S1090D1340U840-4F0-1E-UDD-A1  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9232.3 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

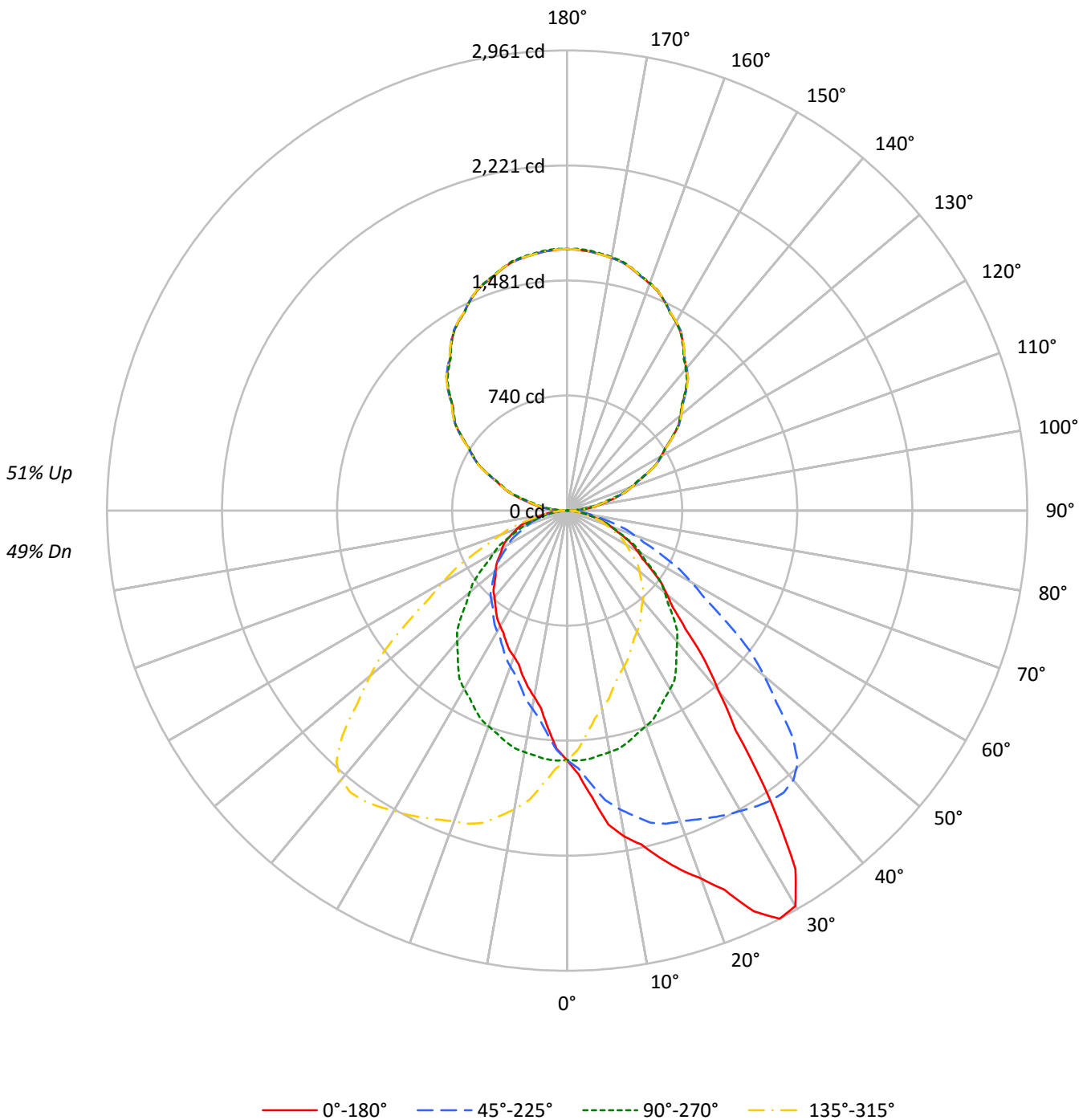
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	81	72	65	59	75	67	61	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

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

	0°	90°	180°	270°
0°	10371	10371	10371	10371
5°	12010	10407	9111	10407
10°	13973	10352	7984	10352
15°	15468	10277	7365	10277
20°	17314	10156	6868	10156
25°	20283	10020	6625	10020
30°	21908	9887	6415	9887
35°	18013	9635	6277	9635
40°	12803	9286	6126	9286
45°	9836	8815	6039	8815
50°	8397	8232	6027	8232
55°	7475	7659	6079	7659
60°	6744	7034	6234	7034
65°	6229	6406	6395	6406
70°	5663	5754	6488	5754
75°	5001	5068	6428	5068
80°	4206	4132	5880	4132
85°	3327	2979	4742	2979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	1.7
10°-20°	460.3	5.0
20°-30°	747.4	8.1
30°-40°	911.7	9.9
40°-50°	829.4	9.0
50°-60°	660.6	7.2
60°-70°	460.1	5.0
70°-80°	245.4	2.7
80°-90°	65.6	0.7
90°-100°	112.7	1.2
100°-110°	332.9	3.6
110°-120°	563.9	6.1
120°-130°	742.1	8.0
130°-140°	831.6	9.0
140°-150°	815.0	8.8
150°-160°	684.5	7.4
160°-170°	455.0	4.9
170°-180°	159.2	1.7
0°-30°	1362.3	14.8
0°-40°	2274.0	24.6
0°-60°	3764.0	40.8
0°-90°	4535.1	49.1
90°-120°	1009.6	10.9
90°-150°	3398.3	36.8
90°-180°	4697.0	50.9
0°-180°	9232.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1853	1605	1405	1605	1853	187
15°	2313	1537	1102	1537	2313	662
25°	2846	1406	930	1406	2846	1300
35°	2285	1222	796	1222	2285	1398
45°	1077	965	661	965	1077	862
55°	664	680	540	680	664	598
65°	408	419	418	419	408	405
75°	200	203	258	203	200	216
85°	45	40	64	40	45	53
90°	31	1	31	1	31	20
95°	113	85	113	85	113	115
105°	325	299	325	299	325	344
115°	570	565	570	565	570	564
125°	829	824	829	824	829	740
135°	1076	1072	1076	1072	1076	830
145°	1303	1298	1303	1298	1303	814
155°	1486	1486	1486	1486	1486	684
165°	1611	1615	1611	1615	1611	454
175°	1673	1679	1673	1679	1673	159
180°	1683	1683	1683	1683	1683	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1698.6	1696.4	1694.3	1689.8	1693.1	1683.8	1679.5	1671.8	1662.5	1659.3	1655.5
5°	1852.6	1856.0	1859.5	1845.1	1846.4	1836.9	1815.1	1797.4	1783.1	1764.6	1751.7
7.5°	2038.0	2029.9	2029.3	2020.0	2004.1	1991.3	1968.3	1939.1	1911.0	1878.8	1852.2
10°	2130.7	2131.4	2125.3	2114.4	2097.3	2085.1	2055.1	2026.4	1991.7	1950.8	1921.5
12.5°	2200.5	2203.3	2195.6	2180.9	2172.5	2145.1	2121.6	2087.5	2046.2	2013.5	1968.9
15°	2313.4	2305.9	2300.5	2282.0	2267.8	2239.1	2201.6	2166.2	2121.1	2079.6	2038.0
17.5°	2422.2	2428.1	2417.9	2401.2	2356.7	2323.3	2273.0	2224.5	2168.5	2112.7	2063.1
20°	2519.2	2524.7	2509.0	2479.7	2426.5	2393.2	2327.0	2264.3	2199.6	2128.0	2073.5
22.5°	2640.3	2635.9	2614.7	2570.2	2524.2	2462.4	2390.9	2314.5	2233.3	2152.5	2080.0
25°	2846.4	2817.7	2804.8	2749.7	2689.0	2598.3	2500.1	2388.3	2287.4	2180.5	2087.8
27.5°	2960.6	2951.6	2937.2	2898.7	2835.0	2738.0	2622.3	2486.1	2343.8	2208.7	2087.4
30°	2937.7	2939.1	2940.4	2928.2	2887.3	2814.4	2699.2	2552.6	2383.6	2231.6	2091.1
32.5°	2734.9	2759.7	2783.4	2811.5	2823.0	2808.9	2736.8	2604.4	2430.4	2257.8	2089.0
35°	2284.7	2292.3	2369.2	2445.6	2549.2	2629.7	2683.5	2624.8	2478.3	2280.0	2086.4
37.5°	1781.5	1818.3	1871.6	1957.8	2107.4	2241.3	2413.5	2492.6	2445.4	2287.2	2081.6
40°	1518.6	1552.7	1587.5	1675.4	1801.5	1963.7	2159.3	2326.3	2365.2	2264.3	2065.3
42.5°	1315.8	1342.8	1381.4	1447.4	1552.9	1696.6	1883.4	2101.6	2235.9	2197.8	2030.9
45°	1076.9	1094.0	1124.0	1176.5	1252.8	1365.2	1530.2	1768.8	1976.7	2045.5	1949.4
47.5°	921.8	921.7	945.0	981.3	1036.3	1131.9	1253.8	1440.8	1662.8	1827.1	1819.5
50°	835.7	832.2	850.6	882.0	925.6	989.1	1105.6	1254.9	1468.1	1654.3	1706.1
52.5°	761.5	761.9	773.3	796.4	832.9	887.1	974.1	1108.7	1291.0	1482.0	1579.5
55°	663.9	661.2	674.1	689.8	716.4	751.8	814.6	917.5	1065.3	1253.4	1380.3
57.5°	574.4	582.0	587.1	598.0	620.2	643.9	696.7	772.2	889.6	1051.1	1185.1
60°	522.1	529.6	533.7	544.6	562.3	582.8	623.7	685.0	783.9	922.9	1055.8
62.5°	475.2	481.1	482.4	492.2	506.8	526.6	558.8	610.4	688.4	810.0	940.2
65°	407.6	407.6	410.3	420.5	427.4	445.0	469.6	507.2	569.9	664.6	775.7
67.5°	342.4	345.7	345.1	349.5	355.8	369.6	387.2	418.1	464.5	533.7	622.6
70°	299.9	302.7	301.9	305.4	312.1	321.0	335.4	364.7	398.1	457.4	533.7
72.5°	261.8	262.9	261.1	265.6	269.6	277.4	293.4	309.0	340.2	390.3	453.0
75°	200.4	201.8	203.1	205.8	210.0	214.0	222.2	237.9	258.3	295.8	336.1
77.5°	150.3	147.6	150.9	150.5	152.8	155.9	163.2	171.5	188.2	212.0	243.1
80°	113.1	113.8	113.8	114.5	118.0	120.0	126.1	132.2	145.2	162.9	184.7
82.5°	82.6	84.4	83.3	84.5	87.4	88.9	92.3	97.4	104.8	118.8	134.5
85°	44.9	41.6	42.9	44.3	44.3	44.9	47.7	49.8	53.8	59.3	65.4
87.5°	19.4	20.3	20.7	20.5	20.9	20.6	22.5	22.2	23.5	24.9	26.7
90°	31.4	30.6	29.7	28.8	28.0	26.8	25.3	23.8	22.4	21.0	18.9
92.5°	61.8	61.2	60.6	59.9	59.3	58.0	56.0	54.1	52.2	50.3	47.8
95°	112.7	112.1	111.5	110.9	110.3	109.1	106.9	104.9	102.9	100.9	98.0
97.5°	170.9	170.5	170.2	169.8	169.5	168.2	166.3	164.4	162.5	160.6	156.6
100°	214.8	214.3	213.7	213.1	212.5	210.9	208.2	205.7	203.1	200.5	196.6
102.5°	258.8	258.0	257.2	256.4	255.6	253.8	250.9	248.0	245.2	242.4	240.4
105°	324.9	324.0	323.2	322.2	321.3	320.0	318.3	316.6	314.9	313.1	311.3
107.5°	392.4	392.5	392.5	392.6	392.7	392.3	391.4	390.5	389.7	388.8	387.5
110°	442.7	443.0	443.3	443.6	443.9	443.6	442.7	441.9	441.0	440.1	439.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	492.0	492.5	493.1	493.6	494.1	494.1	493.7	493.3	492.9	492.5	491.4
115°	569.9	570.2	570.4	570.7	571.0	571.3	571.6	571.9	572.2	572.5	571.9
117.5°	645.8	647.0	648.1	649.3	650.5	651.0	650.7	650.5	650.3	650.1	649.4
120°	698.2	699.3	700.5	701.7	702.9	703.5	703.5	703.5	703.5	703.5	703.2
122.5°	750.6	751.5	752.5	753.4	754.4	754.9	755.2	755.4	755.6	755.9	755.1
125°	829.2	829.5	829.8	830.1	830.4	830.8	831.4	831.9	832.5	833.1	832.8
127.5°	904.6	905.2	905.8	906.5	907.0	907.5	907.7	908.0	908.3	908.6	908.3
130°	954.9	955.5	956.1	956.7	957.3	957.8	958.1	958.3	958.6	958.9	958.3
132.5°	1002.1	1002.9	1003.7	1004.6	1005.4	1005.9	1006.2	1006.5	1006.8	1007.1	1007.2
135°	1075.5	1076.6	1077.8	1078.9	1080.2	1080.8	1080.8	1080.8	1080.8	1080.8	1080.5
137.5°	1147.3	1148.7	1150.1	1151.7	1153.1	1153.7	1153.3	1153.0	1152.6	1152.3	1151.7
140°	1193.4	1194.9	1196.3	1197.7	1199.2	1199.6	1199.0	1198.5	1197.9	1197.3	1196.4
142.5°	1237.4	1238.8	1240.3	1241.7	1243.2	1243.7	1243.4	1243.0	1242.7	1242.3	1241.2
145°	1303.4	1304.2	1305.1	1306.1	1306.9	1307.4	1307.4	1307.4	1307.4	1307.4	1306.5
147.5°	1359.8	1361.7	1363.7	1365.6	1367.7	1368.3	1367.6	1366.9	1366.2	1365.5	1364.8
150°	1401.7	1402.2	1402.8	1403.4	1404.0	1404.3	1404.3	1404.3	1404.3	1404.3	1403.1
152.5°	1436.2	1437.2	1438.4	1439.4	1440.5	1440.6	1439.9	1439.2	1438.6	1437.8	1437.3
155°	1485.5	1486.9	1488.4	1489.9	1491.3	1491.5	1490.3	1489.1	1487.9	1486.8	1486.5
157.5°	1526.6	1528.5	1530.5	1532.4	1534.3	1534.7	1533.5	1532.4	1531.2	1530.0	1529.7
160°	1554.9	1556.4	1557.8	1559.3	1560.7	1560.8	1559.7	1558.5	1557.4	1556.2	1555.9
162.5°	1579.0	1580.7	1582.4	1584.1	1585.8	1585.9	1584.5	1583.2	1581.8	1580.3	1580.2
165°	1611.2	1613.0	1614.8	1616.5	1618.2	1618.5	1617.4	1616.2	1615.1	1613.9	1613.6
167.5°	1636.9	1638.7	1640.5	1642.3	1644.2	1644.2	1642.4	1640.7	1638.9	1637.2	1637.2
170°	1650.5	1652.5	1654.7	1656.7	1658.7	1658.8	1657.1	1655.4	1653.7	1651.8	1651.8
172.5°	1662.0	1663.9	1665.7	1667.5	1669.3	1669.3	1667.6	1665.9	1664.1	1662.3	1662.3
175°	1672.8	1674.9	1676.9	1678.9	1680.9	1681.1	1679.4	1677.6	1675.9	1674.2	1674.2
177.5°	1679.1	1680.7	1682.3	1683.9	1685.7	1685.8	1684.4	1682.9	1681.5	1680.1	1680.4
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1652.2	1648.4	1644.1	1636.4	1627.1	1622.2	1614.6	1609.7	1599.8	1591.6	1583.0
5°	1736.1	1718.4	1702.0	1680.8	1657.7	1642.6	1625.0	1605.2	1584.8	1563.6	1540.4
7.5°	1822.9	1791.5	1757.5	1720.8	1685.0	1651.9	1620.4	1589.5	1560.6	1525.7	1496.1
10°	1881.3	1841.7	1799.5	1749.7	1701.3	1659.0	1616.1	1578.6	1540.4	1499.5	1463.4
12.5°	1939.5	1886.9	1827.2	1772.6	1714.3	1663.3	1612.9	1565.0	1517.0	1471.8	1429.6
15°	1980.7	1934.4	1879.2	1801.5	1736.1	1665.9	1599.0	1537.0	1479.0	1428.7	1375.5
17.5°	2007.9	1948.1	1888.9	1814.3	1728.6	1650.0	1574.4	1503.4	1438.0	1374.1	1322.8
20°	2012.8	1951.5	1889.5	1816.4	1728.6	1638.6	1563.0	1477.7	1407.5	1341.4	1278.7
22.5°	2011.1	1941.7	1874.1	1799.1	1713.3	1630.4	1538.9	1452.1	1375.9	1310.9	1245.5
25°	1995.8	1921.5	1836.9	1761.3	1676.8	1588.8	1496.1	1406.1	1328.5	1254.2	1189.4
27.5°	1983.0	1886.5	1790.9	1702.6	1621.0	1540.4	1451.7	1359.6	1273.3	1198.1	1137.1
30°	1967.1	1861.5	1753.7	1661.7	1577.9	1499.5	1415.7	1325.8	1235.8	1162.2	1096.7
32.5°	1953.0	1829.9	1716.2	1616.0	1527.2	1451.0	1373.7	1288.1	1199.7	1125.1	1059.7
35°	1925.5	1783.1	1652.9	1539.7	1445.0	1366.7	1301.9	1222.1	1141.0	1068.7	1006.0
37.5°	1890.8	1721.7	1582.1	1463.4	1359.6	1277.0	1216.7	1155.5	1077.6	1007.9	951.3
40°	1863.5	1678.1	1530.2	1408.9	1301.2	1215.3	1159.4	1101.5	1036.7	972.0	912.0
42.5°	1829.2	1638.9	1477.8	1347.3	1240.6	1157.0	1098.3	1049.1	992.0	931.6	876.0
45°	1766.1	1567.7	1393.2	1252.8	1145.1	1062.6	1002.0	965.1	922.2	864.9	817.9
47.5°	1673.2	1482.2	1301.7	1156.8	1045.7	969.3	912.4	877.1	846.9	804.3	761.6
50°	1590.8	1418.5	1235.8	1092.0	980.9	903.8	851.3	819.3	793.3	760.6	724.6
52.5°	1498.7	1338.3	1170.8	1028.6	918.7	842.7	791.3	763.2	741.5	718.1	682.6
55°	1352.3	1216.0	1060.6	925.6	824.0	749.7	704.8	680.2	662.6	644.8	623.0
57.5°	1191.0	1084.4	946.7	823.3	729.8	662.3	620.3	596.4	582.6	573.5	560.7
60°	1077.6	986.3	867.7	755.2	663.9	603.9	563.0	544.6	533.0	525.5	515.9
62.5°	972.4	897.4	787.5	684.9	605.0	548.3	511.8	493.9	482.8	479.2	471.3
65°	817.3	759.3	668.6	583.5	515.3	466.9	436.3	419.2	412.3	408.3	409.0
67.5°	664.4	629.1	556.3	483.6	429.3	388.7	364.2	351.0	347.6	342.1	342.0
70°	571.2	544.6	483.2	419.9	371.4	340.1	318.3	304.7	301.2	298.5	297.9
72.5°	488.9	465.5	412.3	361.5	318.0	290.5	272.5	264.3	258.7	257.1	257.0
75°	367.4	354.5	312.1	272.0	242.0	222.9	210.7	203.1	199.0	198.3	199.0
77.5°	261.2	249.8	223.0	194.5	175.6	161.2	150.8	148.1	143.5	143.7	143.0
80°	196.3	188.8	171.8	149.3	133.6	121.3	115.8	111.1	109.8	107.7	109.8
82.5°	142.3	134.3	122.7	108.4	95.4	88.1	82.6	81.1	80.3	79.4	79.8
85°	70.2	70.9	64.0	53.1	47.7	43.6	40.2	40.2	39.5	38.9	39.5
87.5°	27.4	25.9	23.3	21.2	18.0	16.0	14.9	14.9	13.8	13.7	14.7
90°	16.9	14.8	12.8	10.6	8.3	6.0	3.6	1.3	3.6	6.0	8.3
92.5°	45.3	42.8	40.3	38.2	36.6	34.9	33.3	31.7	33.3	34.9	36.6
95°	95.0	92.1	89.3	87.5	86.8	86.3	85.7	85.1	85.7	86.3	86.8
97.5°	152.6	148.6	144.5	142.4	142.2	142.0	141.7	141.5	141.7	142.0	142.2
100°	192.9	189.0	185.3	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4
102.5°	238.5	236.6	234.7	233.1	232.0	230.8	229.6	228.4	229.6	230.8	232.0
105°	309.6	307.8	306.1	304.5	303.1	301.5	300.1	298.7	300.1	301.5	303.1
107.5°	386.1	384.8	383.4	382.0	380.6	379.1	377.7	376.2	377.7	379.1	380.6
110°	438.4	437.6	436.7	435.5	434.0	432.6	431.1	429.7	431.1	432.6	434.0





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CATALOG NUMBER: S125DIW-S1090D1340U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	490.3	489.2	488.2	487.2	486.5	485.6	484.9	484.1	484.9	485.6	486.5
115°	571.3	570.7	570.2	569.3	568.0	566.9	565.7	564.6	565.7	566.9	568.0
117.5°	648.9	648.4	647.9	647.4	646.8	646.3	645.8	645.3	645.8	646.3	646.8
120°	702.9	702.6	702.3	701.5	699.9	698.5	697.0	695.6	697.0	698.5	699.9
122.5°	754.4	753.6	752.9	752.1	751.6	751.1	750.6	750.1	750.6	751.1	751.6
125°	832.5	832.2	831.9	830.9	829.2	827.5	825.7	823.9	825.7	827.5	829.2
127.5°	907.9	907.6	907.2	906.6	905.5	904.5	903.5	902.5	903.5	904.5	905.5
130°	957.8	957.2	956.5	955.5	954.1	952.6	951.2	949.7	951.2	952.6	954.1
132.5°	1007.3	1007.4	1007.5	1006.4	1004.0	1001.7	999.3	996.8	999.3	1001.7	1004.0
135°	1080.2	1079.8	1079.5	1078.5	1076.8	1075.0	1073.3	1071.6	1073.3	1075.0	1076.8
137.5°	1150.9	1150.3	1149.6	1148.5	1146.8	1145.2	1143.5	1141.8	1143.5	1145.2	1146.8
140°	1195.6	1194.7	1193.8	1192.7	1191.2	1189.7	1188.3	1186.8	1188.3	1189.7	1191.2
142.5°	1240.1	1239.0	1237.9	1236.8	1235.6	1234.4	1233.1	1231.9	1233.1	1234.4	1235.6
145°	1305.6	1304.7	1303.8	1302.8	1301.6	1300.5	1299.3	1298.2	1299.3	1300.5	1301.6
147.5°	1364.1	1363.4	1362.7	1362.0	1361.4	1360.8	1360.1	1359.5	1360.1	1360.8	1361.4
150°	1402.0	1400.8	1399.6	1399.2	1399.5	1399.8	1400.1	1400.4	1400.1	1399.8	1399.5
152.5°	1436.8	1436.4	1435.9	1435.5	1435.1	1434.7	1434.3	1433.9	1434.3	1434.7	1435.1
155°	1486.2	1485.9	1485.6	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
157.5°	1529.4	1529.1	1528.8	1529.0	1529.6	1530.3	1531.0	1531.6	1531.0	1530.3	1529.6
160°	1555.7	1555.4	1555.1	1555.4	1556.2	1557.1	1558.0	1558.8	1558.0	1557.1	1556.2
162.5°	1580.2	1580.1	1580.1	1580.4	1581.0	1581.7	1582.4	1583.0	1582.4	1581.7	1581.0
165°	1613.3	1613.0	1612.8	1612.9	1613.5	1614.0	1614.6	1615.2	1614.6	1614.0	1613.5
167.5°	1637.2	1637.2	1637.2	1637.8	1638.9	1640.1	1641.2	1642.4	1641.2	1640.1	1638.9
170°	1651.8	1651.8	1651.8	1652.4	1653.7	1654.8	1656.0	1657.1	1656.0	1654.8	1653.7
172.5°	1662.3	1662.3	1662.3	1662.9	1664.1	1665.3	1666.4	1667.6	1666.4	1665.3	1664.1
175°	1674.2	1674.2	1674.2	1674.8	1675.9	1677.1	1678.2	1679.4	1678.2	1677.1	1675.9
177.5°	1680.6	1680.8	1681.1	1681.6	1682.6	1683.5	1684.5	1685.4	1684.5	1683.5	1682.6
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1578.0	1572.1	1567.1	1556.2	1550.2	1542.1	1535.5	1542.6	1535.0	1538.2	1533.4
5°	1528.8	1509.7	1496.1	1476.3	1459.4	1443.6	1432.1	1430.0	1424.5	1421.8	1413.6
7.5°	1469.7	1445.8	1422.4	1396.4	1374.6	1352.4	1338.3	1326.6	1318.8	1308.6	1301.6
10°	1434.8	1402.7	1375.5	1344.1	1316.9	1293.0	1273.9	1264.4	1255.6	1242.5	1237.8
12.5°	1391.7	1358.6	1325.3	1291.8	1265.6	1239.0	1222.6	1208.2	1202.0	1187.5	1186.0
15°	1340.1	1290.3	1257.6	1223.5	1187.4	1165.6	1152.0	1136.2	1129.4	1119.2	1111.7
17.5°	1278.4	1234.0	1193.1	1157.8	1126.8	1108.4	1091.6	1080.8	1069.0	1062.4	1050.1
20°	1233.8	1191.4	1150.5	1113.1	1089.2	1068.0	1054.4	1044.2	1032.0	1028.5	1016.3
22.5°	1196.1	1149.4	1110.2	1078.7	1052.7	1028.9	1014.1	1007.1	998.7	988.2	985.7
25°	1134.9	1086.5	1053.1	1021.8	998.6	976.7	966.5	957.7	949.5	942.0	939.3
27.5°	1082.0	1038.7	999.1	970.8	950.6	930.7	921.7	910.9	904.9	898.9	891.5
30°	1044.9	1000.6	965.8	938.6	916.8	899.1	889.5	882.0	876.6	871.1	867.0
32.5°	1006.7	965.7	932.0	905.3	883.5	870.1	861.7	856.4	850.4	843.8	838.7
35°	956.3	911.3	878.6	855.5	838.4	828.2	818.6	813.9	807.0	807.0	801.5
37.5°	899.5	860.6	831.7	810.6	795.3	786.2	775.8	772.5	768.2	765.3	763.4
40°	865.7	829.5	802.2	781.1	764.8	757.3	749.1	743.7	740.9	737.5	736.1
42.5°	830.7	796.3	770.1	750.6	736.4	730.0	722.4	718.5	713.1	708.6	707.8
45°	777.7	744.3	720.4	704.8	692.5	685.0	680.2	672.1	669.3	663.9	663.2
47.5°	727.4	695.4	672.0	659.1	648.3	642.2	634.7	626.5	623.4	620.7	620.4
50°	689.8	660.5	638.6	626.4	616.2	607.3	599.9	594.4	592.3	592.3	593.7
52.5°	651.7	626.6	608.1	593.1	583.5	574.0	567.1	563.8	560.7	564.0	566.4
55°	595.7	570.5	556.8	542.6	533.0	522.1	518.7	517.4	515.3	520.8	523.5
57.5°	536.5	518.9	502.9	488.7	480.1	473.8	469.2	468.4	472.2	474.8	483.6
60°	499.0	478.5	464.1	453.2	443.0	439.0	437.6	436.3	439.0	446.5	458.1
62.5°	457.5	440.9	425.5	417.3	409.8	402.9	402.7	403.5	409.0	417.6	429.1
65°	396.7	382.3	372.1	362.6	356.5	352.3	353.8	356.5	362.6	374.2	387.2
67.5°	335.0	325.2	316.0	308.2	302.4	302.4	303.8	307.8	315.1	328.4	340.2
70°	295.2	284.3	276.7	273.4	268.5	265.8	269.9	276.7	282.9	295.2	305.4
72.5°	255.3	246.1	240.2	237.9	235.8	233.7	235.0	242.4	250.6	263.0	274.8
75°	196.3	192.9	188.8	186.1	184.0	185.4	186.7	193.6	200.4	213.4	227.0
77.5°	143.3	139.8	137.2	136.6	135.5	136.2	140.0	145.0	151.7	161.2	171.5
80°	108.4	107.0	105.6	104.9	104.9	105.6	111.1	114.5	120.7	129.5	137.6
82.5°	79.0	78.1	77.9	77.7	78.3	78.4	81.7	86.1	91.2	97.9	104.9
85°	41.6	40.2	42.2	42.9	41.6	43.6	44.9	47.7	49.8	53.1	56.6
87.5°	15.8	17.3	17.2	18.1	18.5	20.0	19.8	22.2	23.6	24.9	24.6
90°	10.6	12.8	14.8	16.9	18.9	21.0	22.4	23.8	25.3	26.8	28.0
92.5°	38.2	40.3	42.8	45.3	47.8	50.3	52.2	54.1	56.0	58.0	59.3
95°	87.5	89.3	92.1	95.0	98.0	100.9	102.9	104.9	106.9	109.1	110.3
97.5°	142.4	144.5	148.6	152.6	156.6	160.6	162.5	164.4	166.3	168.2	169.5
100°	183.4	185.3	189.0	192.9	196.6	200.5	203.1	205.7	208.2	210.9	212.5
102.5°	233.1	234.7	236.6	238.5	240.4	242.4	245.2	248.0	250.9	253.8	255.6
105°	304.5	306.1	307.8	309.6	311.3	313.1	314.9	316.6	318.3	320.0	321.3
107.5°	382.0	383.4	384.8	386.1	387.5	388.8	389.7	390.5	391.4	392.3	392.7
110°	435.5	436.7	437.6	438.4	439.3	440.1	441.0	441.9	442.7	443.6	443.9



TEST NUMBER: P333449-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	487.2	488.2	489.2	490.3	491.4	492.5	492.9	493.3	493.7	494.1	494.1
115°	569.3	570.2	570.7	571.3	571.9	572.5	572.2	571.9	571.6	571.3	571.0
117.5°	647.4	647.9	648.4	648.9	649.4	650.1	650.3	650.5	650.7	651.0	650.5
120°	701.5	702.3	702.6	702.9	703.2	703.5	703.5	703.5	703.5	703.5	702.9
122.5°	752.1	752.9	753.6	754.4	755.1	755.9	755.6	755.4	755.2	754.9	754.4
125°	830.9	831.9	832.2	832.5	832.8	833.1	832.5	831.9	831.4	830.8	830.4
127.5°	906.6	907.2	907.6	907.9	908.3	908.6	908.3	908.0	907.7	907.5	907.0
130°	955.5	956.5	957.2	957.8	958.3	958.9	958.6	958.3	958.1	957.8	957.3
132.5°	1006.4	1007.5	1007.4	1007.3	1007.2	1007.1	1006.8	1006.5	1006.2	1005.9	1005.4
135°	1078.5	1079.5	1079.8	1080.2	1080.5	1080.8	1080.8	1080.8	1080.8	1080.8	1080.2
137.5°	1148.5	1149.6	1150.3	1150.9	1151.7	1152.3	1152.6	1153.0	1153.3	1153.7	1153.1
140°	1192.7	1193.8	1194.7	1195.6	1196.4	1197.3	1197.9	1198.5	1199.0	1199.6	1199.2
142.5°	1236.8	1237.9	1239.0	1240.1	1241.2	1242.3	1242.7	1243.0	1243.4	1243.7	1243.2
145°	1302.8	1303.8	1304.7	1305.6	1306.5	1307.4	1307.4	1307.4	1307.4	1307.4	1306.9
147.5°	1362.0	1362.7	1363.4	1364.1	1364.8	1365.5	1366.2	1366.9	1367.6	1368.3	1367.7
150°	1399.2	1399.6	1400.8	1402.0	1403.1	1404.3	1404.3	1404.3	1404.3	1404.3	1404.0
152.5°	1435.5	1435.9	1436.4	1436.8	1437.3	1437.8	1438.6	1439.2	1439.9	1440.6	1440.5
155°	1485.5	1485.6	1485.9	1486.2	1486.5	1486.8	1487.9	1489.1	1490.3	1491.5	1491.3
157.5°	1529.0	1528.8	1529.1	1529.4	1529.7	1530.0	1531.2	1532.4	1533.5	1534.7	1534.3
160°	1555.4	1555.1	1555.4	1555.7	1555.9	1556.2	1557.4	1558.5	1559.7	1560.8	1560.7
162.5°	1580.4	1580.1	1580.1	1580.2	1580.2	1580.3	1581.8	1583.2	1584.5	1585.9	1585.8
165°	1612.9	1612.8	1613.0	1613.3	1613.6	1613.9	1615.1	1616.2	1617.4	1618.5	1618.2
167.5°	1637.8	1637.2	1637.2	1637.2	1637.2	1637.2	1638.9	1640.7	1642.4	1644.2	1644.2
170°	1652.4	1651.8	1651.8	1651.8	1651.8	1651.8	1653.7	1655.4	1657.1	1658.8	1658.7
172.5°	1662.9	1662.3	1662.3	1662.3	1662.3	1662.3	1664.1	1665.9	1667.6	1669.3	1669.3
175°	1674.8	1674.2	1674.2	1674.2	1674.2	1674.2	1675.9	1677.6	1679.4	1681.1	1680.9
177.5°	1681.6	1681.1	1680.8	1680.6	1680.4	1680.1	1681.5	1682.9	1684.4	1685.8	1685.7
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



TEST NUMBER: P333449-840

CATALOG NUMBER: S125DIW-S1090D1340U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1530.0	1533.9	1530.7	1535.0	1530.7	1533.9	1530.0	1533.4	1538.2	1535.0	1542.6
5°	1410.3	1404.1	1408.2	1405.4	1408.2	1404.1	1410.3	1413.6	1421.8	1424.5	1430.0
7.5°	1299.6	1293.7	1287.0	1283.8	1287.0	1293.7	1299.6	1301.6	1308.6	1318.8	1326.6
10°	1230.3	1222.8	1222.1	1217.4	1222.1	1222.8	1230.3	1237.8	1242.5	1255.6	1264.4
12.5°	1179.6	1172.7	1164.9	1162.9	1164.9	1172.7	1179.6	1186.0	1187.5	1202.0	1208.2
15°	1107.6	1102.2	1097.4	1101.5	1097.4	1102.2	1107.6	1111.7	1119.2	1129.4	1136.2
17.5°	1047.7	1043.3	1042.5	1037.4	1042.5	1043.3	1047.7	1050.1	1062.4	1069.0	1080.8
20°	1010.2	1006.7	1008.1	999.3	1008.1	1006.7	1010.2	1016.3	1028.5	1032.0	1044.2
22.5°	980.2	973.5	972.7	970.9	972.7	973.5	980.2	985.7	988.2	998.7	1007.1
25°	933.1	929.7	926.3	929.7	926.3	929.7	933.1	939.3	942.0	949.5	957.7
27.5°	892.1	888.0	887.1	887.5	887.1	888.0	892.1	891.5	898.9	904.9	910.9
30°	867.0	860.2	860.9	860.2	860.9	860.2	867.0	867.0	871.1	876.6	882.0
32.5°	839.7	835.1	834.1	832.9	834.1	835.1	839.7	838.7	843.8	850.4	856.4
35°	799.5	799.5	796.1	796.1	796.1	799.5	799.5	801.5	807.0	807.0	813.9
37.5°	761.7	761.0	759.0	759.3	759.0	761.0	761.7	763.4	765.3	768.2	772.5
40°	733.4	732.8	730.6	726.6	730.6	732.8	733.4	736.1	737.5	740.9	743.7
42.5°	706.1	703.9	702.9	701.6	702.9	703.9	706.1	707.8	708.6	713.1	718.5
45°	663.2	663.2	661.9	661.2	661.9	663.2	663.2	663.2	663.9	669.3	672.1
47.5°	621.5	622.7	625.3	624.9	625.3	622.7	621.5	620.4	620.7	623.4	626.5
50°	596.4	597.1	599.2	599.9	599.2	597.1	596.4	593.7	592.3	592.3	594.4
52.5°	568.6	572.6	575.1	574.7	575.1	572.6	568.6	566.4	564.0	560.7	563.8
55°	529.6	534.4	539.2	539.9	539.2	534.4	529.6	523.5	520.8	515.3	517.4
57.5°	491.0	497.7	502.7	504.4	502.7	497.7	491.0	483.6	474.8	472.2	468.4
60°	464.8	473.7	479.9	482.6	479.9	473.7	464.8	458.1	446.5	439.0	436.3
62.5°	439.8	449.7	455.9	456.4	455.9	449.7	439.8	429.1	417.6	409.0	403.5
65°	398.7	409.0	414.4	418.5	414.4	409.0	398.7	387.2	374.2	362.6	356.5
67.5°	354.6	364.8	370.8	374.1	370.8	364.8	354.6	340.2	328.4	315.1	307.8
70°	322.4	332.6	340.8	343.6	340.8	332.6	322.4	305.4	295.2	282.9	276.7
72.5°	290.7	299.9	306.5	309.7	306.5	299.9	290.7	274.8	263.0	250.6	242.4
75°	235.8	248.1	254.3	257.6	254.3	248.1	235.8	227.0	213.4	200.4	193.6
77.5°	181.9	193.0	196.7	198.4	196.7	193.0	181.9	171.5	161.2	151.7	145.0
80°	145.8	152.7	157.4	158.1	157.4	152.7	145.8	137.6	129.5	120.7	114.5
82.5°	112.1	117.8	119.3	121.1	119.3	117.8	112.1	104.9	97.9	91.2	86.1
85°	61.3	64.0	64.7	64.0	64.7	64.0	61.3	56.6	53.1	49.8	47.7
87.5°	26.0	25.5	25.8	27.0	25.8	25.5	26.0	24.6	24.9	23.6	22.2
90°	28.8	29.7	30.6	31.4	30.6	29.7	28.8	28.0	26.8	25.3	23.8
92.5°	59.9	60.6	61.2	61.8	61.2	60.6	59.9	59.3	58.0	56.0	54.1
95°	110.9	111.5	112.1	112.7	112.1	111.5	110.9	110.3	109.1	106.9	104.9
97.5°	169.8	170.2	170.5	170.9	170.5	170.2	169.8	169.5	168.2	166.3	164.4
100°	213.1	213.7	214.3	214.8	214.3	213.7	213.1	212.5	210.9	208.2	205.7
102.5°	256.4	257.2	258.0	258.8	258.0	257.2	256.4	255.6	253.8	250.9	248.0
105°	322.2	323.2	324.0	324.9	324.0	323.2	322.2	321.3	320.0	318.3	316.6
107.5°	392.6	392.5	392.5	392.4	392.5	392.5	392.6	392.7	392.3	391.4	390.5
110°	443.6	443.3	443.0	442.7	443.0	443.3	443.6	443.9	443.6	442.7	441.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	493.6	493.1	492.5	492.0	492.5	493.1	493.6	494.1	494.1	493.7	493.3
115°	570.7	570.4	570.2	569.9	570.2	570.4	570.7	571.0	571.3	571.6	571.9
117.5°	649.3	648.1	647.0	645.8	647.0	648.1	649.3	650.5	651.0	650.7	650.5
120°	701.7	700.5	699.3	698.2	699.3	700.5	701.7	702.9	703.5	703.5	703.5
122.5°	753.4	752.5	751.5	750.6	751.5	752.5	753.4	754.4	754.9	755.2	755.4
125°	830.1	829.8	829.5	829.2	829.5	829.8	830.1	830.4	830.8	831.4	831.9
127.5°	906.5	905.8	905.2	904.6	905.2	905.8	906.5	907.0	907.5	907.7	908.0
130°	956.7	956.1	955.5	954.9	955.5	956.1	956.7	957.3	957.8	958.1	958.3
132.5°	1004.6	1003.7	1002.9	1002.1	1002.9	1003.7	1004.6	1005.4	1005.9	1006.2	1006.5
135°	1078.9	1077.8	1076.6	1075.5	1076.6	1077.8	1078.9	1080.2	1080.8	1080.8	1080.8
137.5°	1151.7	1150.1	1148.7	1147.3	1148.7	1150.1	1151.7	1153.1	1153.7	1153.3	1153.0
140°	1197.7	1196.3	1194.9	1193.4	1194.9	1196.3	1197.7	1199.2	1199.6	1199.0	1198.5
142.5°	1241.7	1240.3	1238.8	1237.4	1238.8	1240.3	1241.7	1243.2	1243.7	1243.4	1243.0
145°	1306.1	1305.1	1304.2	1303.4	1304.2	1305.1	1306.1	1306.9	1307.4	1307.4	1307.4
147.5°	1365.6	1363.7	1361.7	1359.8	1361.7	1363.7	1365.6	1367.7	1368.3	1367.6	1366.9
150°	1403.4	1402.8	1402.2	1401.7	1402.2	1402.8	1403.4	1404.0	1404.3	1404.3	1404.3
152.5°	1439.4	1438.4	1437.2	1436.2	1437.2	1438.4	1439.4	1440.5	1440.6	1439.9	1439.2
155°	1489.9	1488.4	1486.9	1485.5	1486.9	1488.4	1489.9	1491.3	1491.5	1490.3	1489.1
157.5°	1532.4	1530.5	1528.5	1526.6	1528.5	1530.5	1532.4	1534.3	1534.7	1533.5	1532.4
160°	1559.3	1557.8	1556.4	1554.9	1556.4	1557.8	1559.3	1560.7	1560.8	1559.7	1558.5
162.5°	1584.1	1582.4	1580.7	1579.0	1580.7	1582.4	1584.1	1585.8	1585.9	1584.5	1583.2
165°	1616.5	1614.8	1613.0	1611.2	1613.0	1614.8	1616.5	1618.2	1618.5	1617.4	1616.2
167.5°	1642.3	1640.5	1638.7	1636.9	1638.7	1640.5	1642.3	1644.2	1644.2	1642.4	1640.7
170°	1656.7	1654.7	1652.5	1650.5	1652.5	1654.7	1656.7	1658.7	1658.8	1657.1	1655.4
172.5°	1667.5	1665.7	1663.9	1662.0	1663.9	1665.7	1667.5	1669.3	1669.3	1667.6	1665.9
175°	1678.9	1676.9	1674.9	1672.8	1674.9	1676.9	1678.9	1680.9	1681.1	1679.4	1677.6
177.5°	1683.9	1682.3	1680.7	1679.1	1680.7	1682.3	1683.9	1685.7	1685.8	1684.4	1682.9
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1535.5	1542.1	1550.2	1556.2	1567.1	1572.1	1578.0	1583.0	1591.6	1599.8	1609.7
5°	1432.1	1443.6	1459.4	1476.3	1496.1	1509.7	1528.8	1540.4	1563.6	1584.8	1605.2
7.5°	1338.3	1352.4	1374.6	1396.4	1422.4	1445.8	1469.7	1496.1	1525.7	1560.6	1589.5
10°	1273.9	1293.0	1316.9	1344.1	1375.5	1402.7	1434.8	1463.4	1499.5	1540.4	1578.6
12.5°	1222.6	1239.0	1265.6	1291.8	1325.3	1358.6	1391.7	1429.6	1471.8	1517.0	1565.0
15°	1152.0	1165.6	1187.4	1223.5	1257.6	1290.3	1340.1	1375.5	1428.7	1479.0	1537.0
17.5°	1091.6	1108.4	1126.8	1157.8	1193.1	1234.0	1278.4	1322.8	1374.1	1438.0	1503.4
20°	1054.4	1068.0	1089.2	1113.1	1150.5	1191.4	1233.8	1278.7	1341.4	1407.5	1477.7
22.5°	1014.1	1028.9	1052.7	1078.7	1110.2	1149.4	1196.1	1245.5	1310.9	1375.9	1452.1
25°	966.5	976.7	998.6	1021.8	1053.1	1086.5	1134.9	1189.4	1254.2	1328.5	1406.1
27.5°	921.7	930.7	950.6	970.8	999.1	1038.7	1082.0	1137.1	1198.1	1273.3	1359.6
30°	889.5	899.1	916.8	938.6	965.8	1000.6	1044.9	1096.7	1162.2	1235.8	1325.8
32.5°	861.7	870.1	883.5	905.3	932.0	965.7	1006.7	1059.7	1125.1	1199.7	1288.1
35°	818.6	828.2	838.4	855.5	878.6	911.3	956.3	1006.0	1068.7	1141.0	1222.1
37.5°	775.8	786.2	795.3	810.6	831.7	860.6	899.5	951.3	1007.9	1077.6	1155.5
40°	749.1	757.3	764.8	781.1	802.2	829.5	865.7	912.0	972.0	1036.7	1101.5
42.5°	722.4	730.0	736.4	750.6	770.1	796.3	830.7	876.0	931.6	992.0	1049.1
45°	680.2	685.0	692.5	704.8	720.4	744.3	777.7	817.9	864.9	922.2	965.1
47.5°	634.7	642.2	648.3	659.1	672.0	695.4	727.4	761.6	804.3	846.9	877.1
50°	599.9	607.3	616.2	626.4	638.6	660.5	689.8	724.6	760.6	793.3	819.3
52.5°	567.1	574.0	583.5	593.1	608.1	626.6	651.7	682.6	718.1	741.5	763.2
55°	518.7	522.1	533.0	542.6	556.8	570.5	595.7	623.0	644.8	662.6	680.2
57.5°	469.2	473.8	480.1	488.7	502.9	518.9	536.5	560.7	573.5	582.6	596.4
60°	437.6	439.0	443.0	453.2	464.1	478.5	499.0	515.9	525.5	533.0	544.6
62.5°	402.7	402.9	409.8	417.3	425.5	440.9	457.5	471.3	479.2	482.8	493.9
65°	353.8	352.3	356.5	362.6	372.1	382.3	396.7	409.0	408.3	412.3	419.2
67.5°	303.8	302.4	302.4	308.2	316.0	325.2	335.0	342.0	342.1	347.6	351.0
70°	269.9	265.8	268.5	273.4	276.7	284.3	295.2	297.9	298.5	301.2	304.7
72.5°	235.0	233.7	235.8	237.9	240.2	246.1	255.3	257.0	257.1	258.7	264.3
75°	186.7	185.4	184.0	186.1	188.8	192.9	196.3	199.0	198.3	199.0	203.1
77.5°	140.0	136.2	135.5	136.6	137.2	139.8	143.3	143.0	143.7	143.5	148.1
80°	111.1	105.6	104.9	104.9	105.6	107.0	108.4	109.8	107.7	109.8	111.1
82.5°	81.7	78.4	78.3	77.7	77.9	78.1	79.0	79.8	79.4	80.3	81.1
85°	44.9	43.6	41.6	42.9	42.2	40.2	41.6	39.5	38.9	39.5	40.2
87.5°	19.8	20.0	18.5	18.1	17.2	17.3	15.8	14.7	13.7	13.8	14.9
90°	22.4	21.0	18.9	16.9	14.8	12.8	10.6	8.3	6.0	3.6	1.3
92.5°	52.2	50.3	47.8	45.3	42.8	40.3	38.2	36.6	34.9	33.3	31.7
95°	102.9	100.9	98.0	95.0	92.1	89.3	87.5	86.8	86.3	85.7	85.1
97.5°	162.5	160.6	156.6	152.6	148.6	144.5	142.4	142.2	142.0	141.7	141.5
100°	203.1	200.5	196.6	192.9	189.0	185.3	183.4	183.4	183.4	183.4	183.4
102.5°	245.2	242.4	240.4	238.5	236.6	234.7	233.1	232.0	230.8	229.6	228.4
105°	314.9	313.1	311.3	309.6	307.8	306.1	304.5	303.1	301.5	300.1	298.7
107.5°	389.7	388.8	387.5	386.1	384.8	383.4	382.0	380.6	379.1	377.7	376.2
110°	441.0	440.1	439.3	438.4	437.6	436.7	435.5	434.0	432.6	431.1	429.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	492.9	492.5	491.4	490.3	489.2	488.2	487.2	486.5	485.6	484.9	484.1
115°	572.2	572.5	571.9	571.3	570.7	570.2	569.3	568.0	566.9	565.7	564.6
117.5°	650.3	650.1	649.4	648.9	648.4	647.9	647.4	646.8	646.3	645.8	645.3
120°	703.5	703.5	703.2	702.9	702.6	702.3	701.5	699.9	698.5	697.0	695.6
122.5°	755.6	755.9	755.1	754.4	753.6	752.9	752.1	751.6	751.1	750.6	750.1
125°	832.5	833.1	832.8	832.5	832.2	831.9	830.9	829.2	827.5	825.7	823.9
127.5°	908.3	908.6	908.3	907.9	907.6	907.2	906.6	905.5	904.5	903.5	902.5
130°	958.6	958.9	958.3	957.8	957.2	956.5	955.5	954.1	952.6	951.2	949.7
132.5°	1006.8	1007.1	1007.2	1007.3	1007.4	1007.5	1006.4	1004.0	1001.7	999.3	996.8
135°	1080.8	1080.8	1080.5	1080.2	1079.8	1079.5	1078.5	1076.8	1075.0	1073.3	1071.6
137.5°	1152.6	1152.3	1151.7	1150.9	1150.3	1149.6	1148.5	1146.8	1145.2	1143.5	1141.8
140°	1197.9	1197.3	1196.4	1195.6	1194.7	1193.8	1192.7	1191.2	1189.7	1188.3	1186.8
142.5°	1242.7	1242.3	1241.2	1240.1	1239.0	1237.9	1236.8	1235.6	1234.4	1233.1	1231.9
145°	1307.4	1307.4	1306.5	1305.6	1304.7	1303.8	1302.8	1301.6	1300.5	1299.3	1298.2
147.5°	1366.2	1365.5	1364.8	1364.1	1363.4	1362.7	1362.0	1361.4	1360.8	1360.1	1359.5
150°	1404.3	1404.3	1403.1	1402.0	1400.8	1399.6	1399.2	1399.5	1399.8	1400.1	1400.4
152.5°	1438.6	1437.8	1437.3	1436.8	1436.4	1435.9	1435.5	1435.1	1434.7	1434.3	1433.9
155°	1487.9	1486.8	1486.5	1486.2	1485.9	1485.6	1485.5	1485.5	1485.5	1485.5	1485.5
157.5°	1531.2	1530.0	1529.7	1529.4	1529.1	1528.8	1529.0	1529.6	1530.3	1531.0	1531.6
160°	1557.4	1556.2	1555.9	1555.7	1555.4	1555.1	1555.4	1556.2	1557.1	1558.0	1558.8
162.5°	1581.8	1580.3	1580.2	1580.2	1580.1	1580.1	1580.4	1581.0	1581.7	1582.4	1583.0
165°	1615.1	1613.9	1613.6	1613.3	1613.0	1612.8	1612.9	1613.5	1614.0	1614.6	1615.2
167.5°	1638.9	1637.2	1637.2	1637.2	1637.2	1637.2	1637.8	1638.9	1640.1	1641.2	1642.4
170°	1653.7	1651.8	1651.8	1651.8	1651.8	1651.8	1652.4	1653.7	1654.8	1656.0	1657.1
172.5°	1664.1	1662.3	1662.3	1662.3	1662.3	1662.3	1662.9	1664.1	1665.3	1666.4	1667.6
175°	1675.9	1674.2	1674.2	1674.2	1674.2	1674.2	1674.8	1675.9	1677.1	1678.2	1679.4
177.5°	1681.5	1680.1	1680.4	1680.6	1680.8	1681.1	1681.6	1682.6	1683.5	1684.5	1685.4
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1614.6	1622.2	1627.1	1636.4	1644.1	1648.4	1652.2	1655.5	1659.3	1662.5	1671.8
5°	1625.0	1642.6	1657.7	1680.8	1702.0	1718.4	1736.1	1751.7	1764.6	1783.1	1797.4
7.5°	1620.4	1651.9	1685.0	1720.8	1757.5	1791.5	1822.9	1852.2	1878.8	1911.0	1939.1
10°	1616.1	1659.0	1701.3	1749.7	1799.5	1841.7	1881.3	1921.5	1950.8	1991.7	2026.4
12.5°	1612.9	1663.3	1714.3	1772.6	1827.2	1886.9	1939.5	1968.9	2013.5	2046.2	2087.5
15°	1599.0	1665.9	1736.1	1801.5	1879.2	1934.4	1980.7	2038.0	2079.6	2121.1	2166.2
17.5°	1574.4	1650.0	1728.6	1814.3	1888.9	1948.1	2007.9	2063.1	2112.7	2168.5	2224.5
20°	1563.0	1638.6	1728.6	1816.4	1889.5	1951.5	2012.8	2073.5	2128.0	2199.6	2264.3
22.5°	1538.9	1630.4	1713.3	1799.1	1874.1	1941.7	2011.1	2080.0	2152.5	2233.3	2314.5
25°	1496.1	1588.8	1676.8	1761.3	1836.9	1921.5	1995.8	2087.8	2180.5	2287.4	2388.3
27.5°	1451.7	1540.4	1621.0	1702.6	1790.9	1886.5	1983.0	2087.4	2208.7	2343.8	2486.1
30°	1415.7	1499.5	1577.9	1661.7	1753.7	1861.5	1967.1	2091.1	2231.6	2383.6	2552.6
32.5°	1373.7	1451.0	1527.2	1616.0	1716.2	1829.9	1953.0	2089.0	2257.8	2430.4	2604.4
35°	1301.9	1366.7	1445.0	1539.7	1652.9	1783.1	1925.5	2086.4	2280.0	2478.3	2624.8
37.5°	1216.7	1277.0	1359.6	1463.4	1582.1	1721.7	1890.8	2081.6	2287.2	2445.4	2492.6
40°	1159.4	1215.3	1301.2	1408.9	1530.2	1678.1	1863.5	2065.3	2264.3	2365.2	2326.3
42.5°	1098.3	1157.0	1240.6	1347.3	1477.8	1638.9	1829.2	2030.9	2197.8	2235.9	2101.6
45°	1002.0	1062.6	1145.1	1252.8	1393.2	1567.7	1766.1	1949.4	2045.5	1976.7	1768.8
47.5°	912.4	969.3	1045.7	1156.8	1301.7	1482.2	1673.2	1819.5	1827.1	1662.8	1440.8
50°	851.3	903.8	980.9	1092.0	1235.8	1418.5	1590.8	1706.1	1654.3	1468.1	1254.9
52.5°	791.3	842.7	918.7	1028.6	1170.8	1338.3	1498.7	1579.5	1482.0	1291.0	1108.7
55°	704.8	749.7	824.0	925.6	1060.6	1216.0	1352.3	1380.3	1253.4	1065.3	917.5
57.5°	620.3	662.3	729.8	823.3	946.7	1084.4	1191.0	1185.1	1051.1	889.6	772.2
60°	563.0	603.9	663.9	755.2	867.7	986.3	1077.6	1055.8	922.9	783.9	685.0
62.5°	511.8	548.3	605.0	684.9	787.5	897.4	972.4	940.2	810.0	688.4	610.4
65°	436.3	466.9	515.3	583.5	668.6	759.3	817.3	775.7	664.6	569.9	507.2
67.5°	364.2	388.7	429.3	483.6	556.3	629.1	664.4	622.6	533.7	464.5	418.1
70°	318.3	340.1	371.4	419.9	483.2	544.6	571.2	533.7	457.4	398.1	364.7
72.5°	272.5	290.5	318.0	361.5	412.3	465.5	488.9	453.0	390.3	340.2	309.0
75°	210.7	222.9	242.0	272.0	312.1	354.5	367.4	336.1	295.8	258.3	237.9
77.5°	150.8	161.2	175.6	194.5	223.0	249.8	261.2	243.1	212.0	188.2	171.5
80°	115.8	121.3	133.6	149.3	171.8	188.8	196.3	184.7	162.9	145.2	132.2
82.5°	82.6	88.1	95.4	108.4	122.7	134.3	142.3	134.5	118.8	104.8	97.4
85°	40.2	43.6	47.7	53.1	64.0	70.9	70.2	65.4	59.3	53.8	49.8
87.5°	14.9	16.0	18.0	21.2	23.3	25.9	27.4	26.7	24.9	23.5	22.2
90°	3.6	6.0	8.3	10.6	12.8	14.8	16.9	18.9	21.0	22.4	23.8
92.5°	33.3	34.9	36.6	38.2	40.3	42.8	45.3	47.8	50.3	52.2	54.1
95°	85.7	86.3	86.8	87.5	89.3	92.1	95.0	98.0	100.9	102.9	104.9
97.5°	141.7	142.0	142.2	142.4	144.5	148.6	152.6	156.6	160.6	162.5	164.4
100°	183.4	183.4	183.4	183.4	185.3	189.0	192.9	196.6	200.5	203.1	205.7
102.5°	229.6	230.8	232.0	233.1	234.7	236.6	238.5	240.4	242.4	245.2	248.0
105°	300.1	301.5	303.1	304.5	306.1	307.8	309.6	311.3	313.1	314.9	316.6
107.5°	377.7	379.1	380.6	382.0	383.4	384.8	386.1	387.5	388.8	389.7	390.5
110°	431.1	432.6	434.0	435.5	436.7	437.6	438.4	439.3	440.1	441.0	441.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.9	485.6	486.5	487.2	488.2	489.2	490.3	491.4	492.5	492.9	493.3
115°	565.7	566.9	568.0	569.3	570.2	570.7	571.3	571.9	572.5	572.2	571.9
117.5°	645.8	646.3	646.8	647.4	647.9	648.4	648.9	649.4	650.1	650.3	650.5
120°	697.0	698.5	699.9	701.5	702.3	702.6	702.9	703.2	703.5	703.5	703.5
122.5°	750.6	751.1	751.6	752.1	752.9	753.6	754.4	755.1	755.9	755.6	755.4
125°	825.7	827.5	829.2	830.9	831.9	832.2	832.5	832.8	833.1	832.5	831.9
127.5°	903.5	904.5	905.5	906.6	907.2	907.6	907.9	908.3	908.6	908.3	908.0
130°	951.2	952.6	954.1	955.5	956.5	957.2	957.8	958.3	958.9	958.6	958.3
132.5°	999.3	1001.7	1004.0	1006.4	1007.5	1007.4	1007.3	1007.2	1007.1	1006.8	1006.5
135°	1073.3	1075.0	1076.8	1078.5	1079.5	1079.8	1080.2	1080.5	1080.8	1080.8	1080.8
137.5°	1143.5	1145.2	1146.8	1148.5	1149.6	1150.3	1150.9	1151.7	1152.3	1152.6	1153.0
140°	1188.3	1189.7	1191.2	1192.7	1193.8	1194.7	1195.6	1196.4	1197.3	1197.9	1198.5
142.5°	1233.1	1234.4	1235.6	1236.8	1237.9	1239.0	1240.1	1241.2	1242.3	1242.7	1243.0
145°	1299.3	1300.5	1301.6	1302.8	1303.8	1304.7	1305.6	1306.5	1307.4	1307.4	1307.4
147.5°	1360.1	1360.8	1361.4	1362.0	1362.7	1363.4	1364.1	1364.8	1365.5	1366.2	1366.9
150°	1400.1	1399.8	1399.5	1399.2	1399.6	1400.8	1402.0	1403.1	1404.3	1404.3	1404.3
152.5°	1434.3	1434.7	1435.1	1435.5	1435.9	1436.4	1436.8	1437.3	1437.8	1438.6	1439.2
155°	1485.5	1485.5	1485.5	1485.5	1485.6	1485.9	1486.2	1486.5	1486.8	1487.9	1489.1
157.5°	1531.0	1530.3	1529.6	1529.0	1528.8	1529.1	1529.4	1529.7	1530.0	1531.2	1532.4
160°	1558.0	1557.1	1556.2	1555.4	1555.1	1555.4	1555.7	1555.9	1556.2	1557.4	1558.5
162.5°	1582.4	1581.7	1581.0	1580.4	1580.1	1580.1	1580.2	1580.2	1580.3	1581.8	1583.2
165°	1614.6	1614.0	1613.5	1612.9	1612.8	1613.0	1613.3	1613.6	1613.9	1615.1	1616.2
167.5°	1641.2	1640.1	1638.9	1637.8	1637.2	1637.2	1637.2	1637.2	1637.2	1638.9	1640.7
170°	1656.0	1654.8	1653.7	1652.4	1651.8	1651.8	1651.8	1651.8	1651.8	1653.7	1655.4
172.5°	1666.4	1665.3	1664.1	1662.9	1662.3	1662.3	1662.3	1662.3	1662.3	1664.1	1665.9
175°	1678.2	1677.1	1675.9	1674.8	1674.2	1674.2	1674.2	1674.2	1674.2	1675.9	1677.6
177.5°	1684.5	1683.5	1682.6	1681.6	1681.1	1680.8	1680.6	1680.4	1680.1	1681.5	1682.9
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1679.5	1683.8	1693.1	1689.8	1694.3	1696.4	1698.6
5°	1815.1	1836.9	1846.4	1845.1	1859.5	1856.0	1852.6
7.5°	1968.3	1991.3	2004.1	2020.0	2029.3	2029.9	2038.0
10°	2055.1	2085.1	2097.3	2114.4	2125.3	2131.4	2130.7
12.5°	2121.6	2145.1	2172.5	2180.9	2195.6	2203.3	2200.5
15°	2201.6	2239.1	2267.8	2282.0	2300.5	2305.9	2313.4
17.5°	2273.0	2323.3	2356.7	2401.2	2417.9	2428.1	2422.2
20°	2327.0	2393.2	2426.5	2479.7	2509.0	2524.7	2519.2
22.5°	2390.9	2462.4	2524.2	2570.2	2614.7	2635.9	2640.3
25°	2500.1	2598.3	2689.0	2749.7	2804.8	2817.7	2846.4
27.5°	2622.3	2738.0	2835.0	2898.7	2937.2	2951.6	2960.6
30°	2699.2	2814.4	2887.3	2928.2	2940.4	2939.1	2937.7
32.5°	2736.8	2808.9	2823.0	2811.5	2783.4	2759.7	2734.9
35°	2683.5	2629.7	2549.2	2445.6	2369.2	2292.3	2284.7
37.5°	2413.5	2241.3	2107.4	1957.8	1871.6	1818.3	1781.5
40°	2159.3	1963.7	1801.5	1675.4	1587.5	1552.7	1518.6
42.5°	1883.4	1696.6	1552.9	1447.4	1381.4	1342.8	1315.8
45°	1530.2	1365.2	1252.8	1176.5	1124.0	1094.0	1076.9
47.5°	1253.8	1131.9	1036.3	981.3	945.0	921.7	921.8
50°	1105.6	989.1	925.6	882.0	850.6	832.2	835.7
52.5°	974.1	887.1	832.9	796.4	773.3	761.9	761.5
55°	814.6	751.8	716.4	689.8	674.1	661.2	663.9
57.5°	696.7	643.9	620.2	598.0	587.1	582.0	574.4
60°	623.7	582.8	562.3	544.6	533.7	529.6	522.1
62.5°	558.8	526.6	506.8	492.2	482.4	481.1	475.2
65°	469.6	445.0	427.4	420.5	410.3	407.6	407.6
67.5°	387.2	369.6	355.8	349.5	345.1	345.7	342.4
70°	335.4	321.0	312.1	305.4	301.9	302.7	299.9
72.5°	293.4	277.4	269.6	265.6	261.1	262.9	261.8
75°	222.2	214.0	210.0	205.8	203.1	201.8	200.4
77.5°	163.2	155.9	152.8	150.5	150.9	147.6	150.3
80°	126.1	120.0	118.0	114.5	113.8	113.8	113.1
82.5°	92.3	88.9	87.4	84.5	83.3	84.4	82.6
85°	47.7	44.9	44.3	44.3	42.9	41.6	44.9
87.5°	22.5	20.6	20.9	20.5	20.7	20.3	19.4
90°	25.3	26.8	28.0	28.8	29.7	30.6	31.4
92.5°	56.0	58.0	59.3	59.9	60.6	61.2	61.8
95°	106.9	109.1	110.3	110.9	111.5	112.1	112.7
97.5°	166.3	168.2	169.5	169.8	170.2	170.5	170.9
100°	208.2	210.9	212.5	213.1	213.7	214.3	214.8
102.5°	250.9	253.8	255.6	256.4	257.2	258.0	258.8
105°	318.3	320.0	321.3	322.2	323.2	324.0	324.9
107.5°	391.4	392.3	392.7	392.6	392.5	392.5	392.4
110°	442.7	443.6	443.9	443.6	443.3	443.0	442.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	493.7	494.1	494.1	493.6	493.1	492.5	492.0
115°	571.6	571.3	571.0	570.7	570.4	570.2	569.9
117.5°	650.7	651.0	650.5	649.3	648.1	647.0	645.8
120°	703.5	703.5	702.9	701.7	700.5	699.3	698.2
122.5°	755.2	754.9	754.4	753.4	752.5	751.5	750.6
125°	831.4	830.8	830.4	830.1	829.8	829.5	829.2
127.5°	907.7	907.5	907.0	906.5	905.8	905.2	904.6
130°	958.1	957.8	957.3	956.7	956.1	955.5	954.9
132.5°	1006.2	1005.9	1005.4	1004.6	1003.7	1002.9	1002.1
135°	1080.8	1080.8	1080.2	1078.9	1077.8	1076.6	1075.5
137.5°	1153.3	1153.7	1153.1	1151.7	1150.1	1148.7	1147.3
140°	1199.0	1199.6	1199.2	1197.7	1196.3	1194.9	1193.4
142.5°	1243.4	1243.7	1243.2	1241.7	1240.3	1238.8	1237.4
145°	1307.4	1307.4	1306.9	1306.1	1305.1	1304.2	1303.4
147.5°	1367.6	1368.3	1367.7	1365.6	1363.7	1361.7	1359.8
150°	1404.3	1404.3	1404.0	1403.4	1402.8	1402.2	1401.7
152.5°	1439.9	1440.6	1440.5	1439.4	1438.4	1437.2	1436.2
155°	1490.3	1491.5	1491.3	1489.9	1488.4	1486.9	1485.5
157.5°	1533.5	1534.7	1534.3	1532.4	1530.5	1528.5	1526.6
160°	1559.7	1560.8	1560.7	1559.3	1557.8	1556.4	1554.9
162.5°	1584.5	1585.9	1585.8	1584.1	1582.4	1580.7	1579.0
165°	1617.4	1618.5	1618.2	1616.5	1614.8	1613.0	1611.2
167.5°	1642.4	1644.2	1644.2	1642.3	1640.5	1638.7	1636.9
170°	1657.1	1658.8	1658.7	1656.7	1654.7	1652.5	1650.5
172.5°	1667.6	1669.3	1669.3	1667.5	1665.7	1663.9	1662.0
175°	1679.4	1681.1	1680.9	1678.9	1676.9	1674.9	1672.8
177.5°	1684.4	1685.8	1685.7	1683.9	1682.3	1680.7	1679.1
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3

(END OF REPORT)