

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: P333287-830

Luminaire Tested: **S125DIP-S1090D1205U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333287-830  
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: S125DIP-S1090D1205U830-4F0-1E-UDD-A1  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8159.8 lumens  
Efficiency: N/A  
Efficacy: 124.8 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

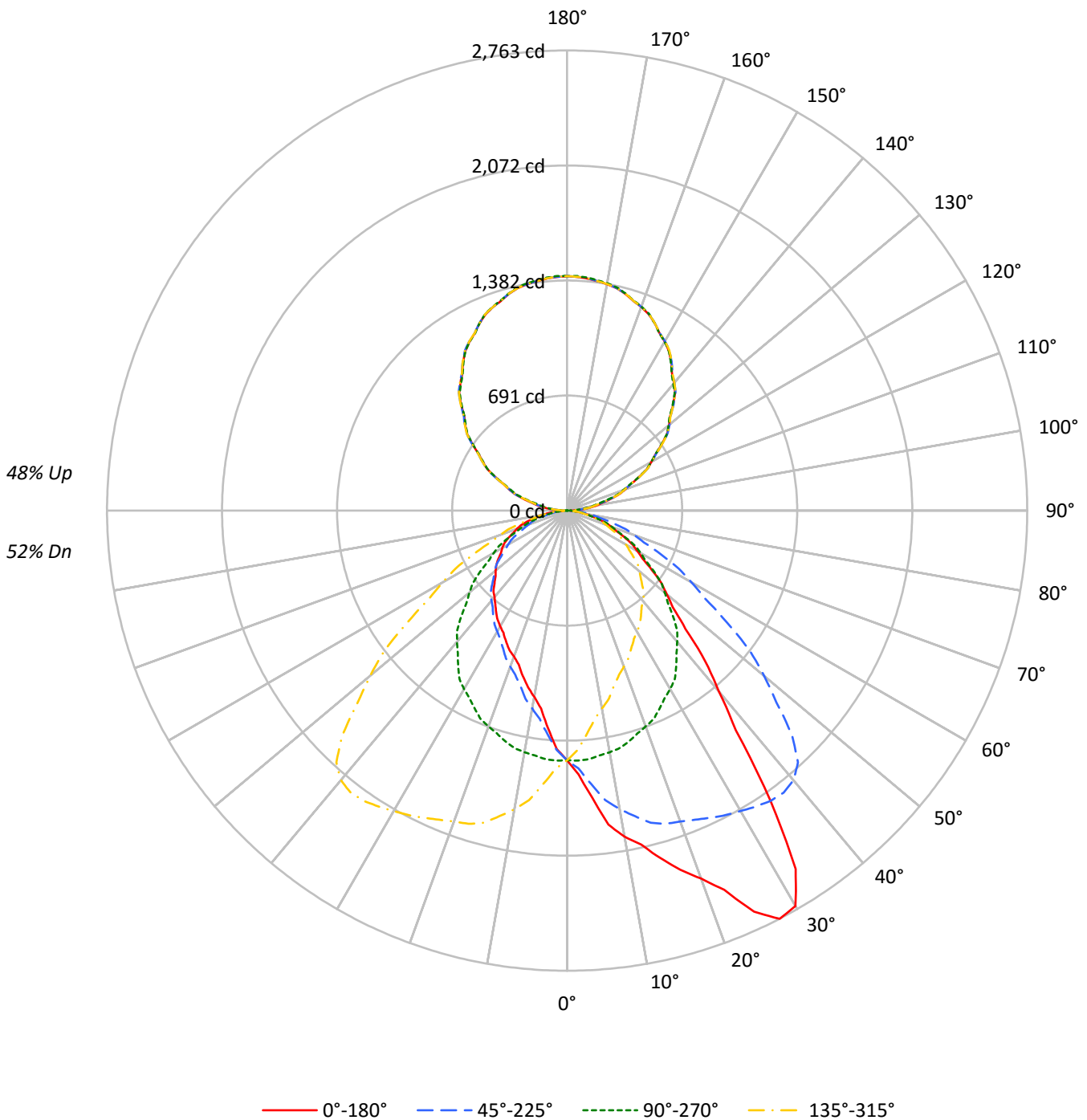
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	99	99	99	84	84	84	71	71	71	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	76	71	83	77	71	67	65	61	58	55	52	50	46	44	42	37
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	57	51	69	60	53	48	51	46	42	44	40	36	36	33	31	27
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	50	40	33	28	34	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	9680	9680	9680	9680
5°	11210	9713	8504	9713
10°	13042	9663	7451	9663
15°	14437	9591	6873	9591
20°	16160	9479	6410	9479
25°	18932	9352	6183	9352
30°	20448	9228	5988	9228
35°	16812	8993	5858	8993
40°	11950	8667	5718	8667
45°	9180	8227	5636	8227
50°	7837	7683	5626	7683
55°	6977	7149	5674	7149
60°	6294	6566	5818	6566
65°	5813	5978	5969	5978
70°	5285	5370	6056	5370
75°	4666	4729	5999	4729
80°	3927	3857	5490	3857
85°	3105	2779	4431	2779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.3	1.8
10°-20°	429.6	5.3
20°-30°	697.6	8.5
30°-40°	850.9	10.4
40°-50°	774.1	9.5
50°-60°	616.6	7.6
60°-70°	429.5	5.3
70°-80°	229.0	2.8
80°-90°	60.9	0.7
90°-100°	94.3	1.2
100°-110°	278.4	3.4
110°-120°	471.5	5.8
120°-130°	620.5	7.6
130°-140°	695.3	8.5
140°-150°	681.4	8.4
150°-160°	572.4	7.0
160°-170°	380.5	4.7
170°-180°	133.1	1.6
0°-30°	1271.5	15.6
0°-40°	2122.4	26.0
0°-60°	3513.1	43.1
0°-90°	4232.5	51.9
90°-120°	844.1	10.3
90°-150°	2841.4	34.8
90°-180°	3927.0	48.1
0°-180°	8159.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1499	1499	1499	1499	1499	
5°	1729	1498	1312	1498	1729	174
15°	2159	1434	1028	1434	2159	618
25°	2657	1312	868	1312	2657	1213
35°	2132	1141	743	1141	2132	1305
45°	1005	901	617	901	1005	804
55°	620	635	504	635	620	558
65°	380	391	391	391	380	378
75°	187	190	240	190	187	201
85°	42	38	60	38	42	49
90°	26	1	26	1	26	17
95°	94	71	94	71	94	96
105°	272	250	272	250	272	288
115°	476	472	476	472	476	471
125°	693	689	693	689	693	619
135°	899	896	899	896	899	694
145°	1090	1085	1090	1085	1090	680
155°	1242	1242	1242	1242	1242	572
165°	1347	1350	1347	1350	1347	380
175°	1399	1404	1399	1404	1399	133
180°	1407	1407	1407	1407	1407	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1585.4	1583.3	1581.3	1577.2	1580.3	1571.6	1567.5	1560.4	1551.7	1548.7	1545.1
5°	1729.1	1732.3	1735.5	1722.1	1723.3	1714.5	1694.1	1677.5	1664.2	1647.0	1634.9
7.5°	1902.1	1894.6	1894.0	1885.4	1870.5	1858.5	1837.1	1809.9	1783.6	1753.5	1728.7
10°	1988.7	1989.3	1983.6	1973.4	1957.5	1946.1	1918.1	1891.3	1858.9	1820.7	1793.4
12.5°	2053.8	2056.4	2049.3	2035.5	2027.7	2002.1	1980.2	1948.3	1909.8	1879.2	1837.7
15°	2159.2	2152.2	2147.1	2129.9	2116.6	2089.8	2054.8	2021.8	1979.7	1941.0	1902.1
17.5°	2260.7	2266.2	2256.7	2241.1	2199.6	2168.4	2121.5	2076.2	2023.9	1971.9	1925.5
20°	2351.3	2356.4	2341.7	2314.4	2264.7	2233.6	2171.9	2113.4	2053.0	1986.1	1935.2
22.5°	2464.3	2460.2	2440.4	2398.9	2355.9	2298.2	2231.5	2160.2	2084.4	2009.0	1941.4
25°	2656.7	2629.9	2617.8	2566.4	2509.7	2425.1	2333.5	2229.1	2135.0	2035.1	1948.6
27.5°	2763.3	2754.9	2741.4	2705.5	2646.0	2555.5	2447.5	2320.4	2187.5	2061.4	1948.2
30°	2741.9	2743.2	2744.4	2733.0	2694.8	2626.8	2519.2	2382.5	2224.7	2082.8	1951.7
32.5°	2552.6	2575.7	2597.8	2624.0	2634.8	2621.7	2554.4	2430.8	2268.4	2107.2	1949.7
35°	2132.4	2139.5	2211.3	2282.6	2379.3	2454.4	2504.6	2449.9	2313.1	2128.0	1947.3
37.5°	1662.7	1697.0	1746.8	1827.3	1966.9	2091.9	2252.6	2326.5	2282.4	2134.8	1942.9
40°	1417.4	1449.2	1481.7	1563.7	1681.4	1832.8	2015.3	2171.2	2207.5	2113.4	1927.6
42.5°	1228.0	1253.3	1289.3	1350.9	1449.3	1583.5	1757.8	1961.5	2086.9	2051.3	1895.5
45°	1005.1	1021.1	1049.0	1098.1	1169.3	1274.2	1428.2	1650.9	1844.9	1909.1	1819.5
47.5°	860.4	860.3	882.0	915.9	967.2	1056.4	1170.3	1344.7	1552.0	1705.3	1698.2
50°	780.0	776.7	793.9	823.2	863.9	923.1	1031.9	1171.2	1370.3	1544.0	1592.3
52.5°	710.8	711.1	721.7	743.3	777.4	827.9	909.2	1034.8	1204.9	1383.2	1474.2
55°	619.6	617.1	629.1	643.9	668.6	701.7	760.3	856.3	994.3	1169.9	1288.3
57.5°	536.1	543.2	548.0	558.2	578.8	601.0	650.3	720.8	830.3	981.0	1106.1
60°	487.3	494.3	498.1	508.3	524.8	543.9	582.1	639.3	731.6	861.4	985.4
62.5°	443.6	449.0	450.3	459.4	473.0	491.5	521.5	569.7	642.5	756.0	877.5
65°	380.4	380.4	383.0	392.5	398.9	415.4	438.3	473.3	531.9	620.3	724.0
67.5°	319.6	322.6	322.1	326.2	332.1	345.0	361.4	390.2	433.6	498.1	581.1
70°	279.9	282.5	281.8	285.0	291.3	299.6	313.0	340.4	371.6	426.9	498.1
72.5°	244.3	245.3	243.6	247.9	251.7	258.9	273.8	288.4	317.5	364.3	422.8
75°	187.0	188.3	189.5	192.1	196.0	199.7	207.4	222.1	241.1	276.1	313.7
77.5°	140.3	137.8	140.8	140.4	142.6	145.5	152.3	160.0	175.7	197.8	226.9
80°	105.6	106.2	106.2	106.9	110.1	112.0	117.7	123.4	135.5	152.0	172.4
82.5°	77.1	78.8	77.8	78.9	81.5	82.9	86.1	90.9	97.8	110.8	125.5
85°	41.9	38.8	40.1	41.4	41.4	41.9	44.5	46.5	50.2	55.3	61.1
87.5°	17.4	18.4	18.7	18.6	18.9	18.8	20.5	20.3	21.6	22.8	24.5
90°	26.3	25.5	24.8	24.1	23.4	22.4	21.2	20.0	18.8	17.5	15.8
92.5°	51.7	51.2	50.6	50.0	49.6	48.4	46.8	45.2	43.6	42.0	40.0
95°	94.2	93.7	93.2	92.7	92.3	91.1	89.4	87.8	86.1	84.4	81.9
97.5°	142.8	142.5	142.2	141.9	141.7	140.7	139.1	137.5	135.9	134.3	130.9
100°	179.6	179.2	178.6	178.1	177.7	176.3	174.2	171.9	169.8	167.6	164.4
102.5°	216.4	215.7	215.1	214.4	213.7	212.2	209.8	207.4	205.0	202.6	201.0
105°	271.6	270.9	270.1	269.5	268.7	267.6	266.2	264.7	263.3	261.7	260.3
107.5°	328.1	328.2	328.3	328.3	328.4	328.0	327.3	326.5	325.8	325.1	324.0
110°	370.2	370.4	370.7	370.9	371.2	370.9	370.2	369.5	368.7	368.0	367.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	411.4	411.8	412.3	412.7	413.1	413.2	412.8	412.6	412.2	411.8	410.9
115°	476.5	476.6	476.9	477.2	477.4	477.7	477.9	478.2	478.4	478.6	478.2
117.5°	540.0	540.9	542.0	542.9	543.8	544.2	544.0	543.8	543.7	543.5	543.0
120°	583.8	584.8	585.7	586.7	587.7	588.1	588.1	588.1	588.1	588.1	588.0
122.5°	627.6	628.4	629.1	629.9	630.7	631.2	631.4	631.6	631.8	632.0	631.3
125°	693.3	693.5	693.8	694.1	694.3	694.7	695.1	695.6	696.1	696.6	696.4
127.5°	756.4	756.9	757.3	757.9	758.4	758.7	758.9	759.2	759.4	759.7	759.4
130°	798.4	798.9	799.5	799.9	800.4	800.8	801.0	801.3	801.5	801.7	801.3
132.5°	837.9	838.6	839.2	839.9	840.7	841.0	841.3	841.6	841.8	842.1	842.2
135°	899.2	900.2	901.2	902.1	903.1	903.6	903.6	903.6	903.6	903.6	903.3
137.5°	959.2	960.5	961.7	962.9	964.1	964.6	964.3	964.0	963.7	963.4	962.9
140°	997.8	999.0	1000.2	1001.5	1002.7	1003.1	1002.6	1002.0	1001.5	1001.1	1000.3
142.5°	1034.6	1035.9	1037.1	1038.2	1039.4	1039.9	1039.6	1039.3	1039.1	1038.8	1037.8
145°	1089.8	1090.5	1091.3	1092.0	1092.7	1093.1	1093.1	1093.1	1093.1	1093.1	1092.3
147.5°	1136.9	1138.6	1140.2	1141.9	1143.5	1144.1	1143.5	1142.9	1142.3	1141.7	1141.1
150°	1172.0	1172.4	1172.9	1173.4	1173.9	1174.1	1174.1	1174.1	1174.1	1174.1	1173.2
152.5°	1200.9	1201.7	1202.6	1203.5	1204.4	1204.5	1203.9	1203.3	1202.8	1202.2	1201.8
155°	1242.1	1243.3	1244.4	1245.7	1246.9	1247.1	1246.0	1245.1	1244.2	1243.1	1242.9
157.5°	1276.5	1278.1	1279.7	1281.3	1282.9	1283.2	1282.2	1281.2	1280.3	1279.3	1279.0
160°	1300.1	1301.3	1302.5	1303.7	1305.0	1305.0	1304.1	1303.2	1302.1	1301.2	1301.0
162.5°	1320.2	1321.6	1323.0	1324.5	1325.9	1326.1	1324.8	1323.7	1322.5	1321.4	1321.3
165°	1347.2	1348.7	1350.1	1351.6	1353.0	1353.3	1352.3	1351.3	1350.4	1349.3	1349.2
167.5°	1368.7	1370.2	1371.7	1373.2	1374.7	1374.7	1373.3	1371.8	1370.4	1368.9	1368.9
170°	1380.1	1381.8	1383.5	1385.2	1386.9	1387.0	1385.5	1384.0	1382.6	1381.1	1381.1
172.5°	1389.7	1391.2	1392.7	1394.2	1395.7	1395.7	1394.3	1392.8	1391.4	1389.9	1389.9
175°	1398.6	1400.3	1402.1	1403.8	1405.5	1405.6	1404.1	1402.7	1401.2	1399.8	1399.8
177.5°	1403.9	1405.3	1406.7	1408.1	1409.4	1409.5	1408.3	1407.1	1406.0	1404.8	1405.0
180°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1542.1	1538.5	1534.5	1527.3	1518.6	1514.1	1506.9	1502.4	1493.2	1485.5	1477.4
5°	1620.3	1603.8	1588.6	1568.8	1547.2	1533.1	1516.6	1498.2	1479.1	1459.3	1437.8
7.5°	1701.4	1672.1	1640.3	1606.1	1572.6	1541.8	1512.4	1483.6	1456.6	1424.0	1396.4
10°	1755.9	1718.9	1679.5	1633.0	1587.9	1548.4	1508.4	1473.4	1437.8	1399.6	1365.8
12.5°	1810.2	1761.1	1705.4	1654.4	1600.1	1552.5	1505.3	1460.7	1415.9	1373.7	1334.3
15°	1848.7	1805.4	1753.9	1681.4	1620.3	1554.8	1492.4	1434.5	1380.4	1333.4	1283.8
17.5°	1874.1	1818.3	1762.9	1693.4	1613.4	1540.0	1469.4	1403.2	1342.2	1282.5	1234.6
20°	1878.6	1821.4	1763.5	1695.4	1613.4	1529.4	1458.8	1379.2	1313.7	1252.0	1193.4
22.5°	1877.1	1812.2	1749.2	1679.1	1599.1	1521.7	1436.3	1355.3	1284.2	1223.5	1162.4
25°	1862.7	1793.4	1714.5	1643.9	1565.0	1482.9	1396.4	1312.4	1239.9	1170.5	1110.1
27.5°	1850.8	1760.8	1671.5	1589.1	1513.0	1437.8	1354.9	1268.9	1188.5	1118.2	1061.3
30°	1836.0	1737.4	1636.8	1551.0	1472.7	1399.6	1321.4	1237.4	1153.4	1084.7	1023.6
32.5°	1822.8	1707.9	1601.8	1508.3	1425.4	1354.2	1282.1	1202.2	1119.7	1050.1	989.0
35°	1797.1	1664.2	1542.8	1437.1	1348.7	1275.5	1215.1	1140.7	1065.0	997.5	939.0
37.5°	1764.7	1606.9	1476.6	1365.8	1268.9	1191.8	1135.6	1078.5	1005.8	940.8	887.9
40°	1739.3	1566.2	1428.2	1314.9	1214.5	1134.3	1082.1	1028.0	967.6	907.2	851.2
42.5°	1707.2	1529.7	1379.3	1257.4	1157.9	1079.9	1025.1	979.2	925.9	869.5	817.6
45°	1648.3	1463.2	1300.3	1169.3	1068.7	991.7	935.2	900.8	860.7	807.3	763.4
47.5°	1561.7	1383.4	1214.9	1079.7	976.0	904.7	851.6	818.6	790.4	750.6	710.9
50°	1484.8	1323.9	1153.4	1019.2	915.5	843.6	794.6	764.7	740.5	709.9	676.3
52.5°	1398.8	1249.1	1092.8	960.1	857.4	786.6	738.6	712.3	692.1	670.2	637.1
55°	1262.2	1134.9	989.9	863.9	769.1	699.7	657.8	634.9	618.4	601.8	581.5
57.5°	1111.6	1012.1	883.6	768.5	681.2	618.1	578.9	556.7	543.8	535.3	523.3
60°	1005.8	920.6	809.8	704.8	619.6	563.6	525.5	508.3	497.5	490.5	481.5
62.5°	907.6	837.5	735.0	639.2	564.7	511.7	477.7	461.0	450.6	447.2	439.9
65°	762.8	708.7	624.1	544.6	481.0	435.7	407.2	391.2	384.8	381.1	381.7
67.5°	620.1	587.2	519.2	451.4	400.7	362.8	339.9	327.6	324.4	319.3	319.2
70°	533.1	508.3	451.0	391.9	346.7	317.4	297.1	284.4	281.2	278.6	278.1
72.5°	456.3	434.5	384.8	337.4	296.8	271.2	254.3	246.7	241.5	240.0	239.9
75°	342.9	330.8	291.3	253.8	225.8	208.0	196.6	189.5	185.8	185.1	185.8
77.5°	243.7	233.2	208.1	181.5	163.9	150.4	140.7	138.3	133.9	134.1	133.5
80°	183.2	176.3	160.3	139.3	124.7	113.2	108.1	103.7	102.5	100.5	102.5
82.5°	132.8	125.4	114.5	101.1	89.1	82.2	77.1	75.7	74.9	74.1	74.5
85°	65.5	66.2	59.8	49.6	44.5	40.7	37.5	37.5	36.9	36.3	36.9
87.5°	25.3	23.8	21.5	19.6	16.7	14.7	13.9	13.9	12.8	12.7	13.6
90°	14.1	12.4	10.7	8.9	7.0	5.0	3.0	1.1	3.0	5.0	7.0
92.5°	37.9	35.8	33.6	32.0	30.6	29.2	27.9	26.5	27.9	29.2	30.6
95°	79.5	77.0	74.6	73.1	72.7	72.2	71.6	71.2	71.6	72.2	72.7
97.5°	127.5	124.2	120.8	119.0	118.9	118.7	118.5	118.3	118.5	118.7	118.9
100°	161.3	158.1	155.0	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4
102.5°	199.4	197.8	196.2	194.9	194.0	192.9	192.0	191.1	192.0	192.9	194.0
105°	258.8	257.4	255.9	254.6	253.4	252.1	250.9	249.7	250.9	252.1	253.4
107.5°	322.8	321.7	320.6	319.4	318.2	317.0	315.8	314.5	315.8	317.0	318.2
110°	366.6	365.8	365.0	364.1	362.9	361.7	360.4	359.3	360.4	361.7	362.9





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	410.0	409.1	408.1	407.4	406.7	406.0	405.5	404.8	405.5	406.0	406.7
115°	477.7	477.2	476.6	476.0	474.9	474.0	473.1	472.0	473.1	474.0	474.9
117.5°	542.6	542.2	541.7	541.3	540.8	540.5	540.0	539.5	540.0	540.5	540.8
120°	587.7	587.4	587.2	586.4	585.2	584.0	582.8	581.5	582.8	584.0	585.2
122.5°	630.7	630.1	629.4	628.9	628.5	628.0	627.6	627.2	627.6	628.0	628.5
125°	696.1	695.9	695.6	694.7	693.3	691.8	690.4	688.9	690.4	691.8	693.3
127.5°	759.1	758.8	758.6	758.0	757.1	756.3	755.4	754.7	755.4	756.3	757.1
130°	800.8	800.3	799.8	798.9	797.8	796.5	795.3	794.1	795.3	796.5	797.8
132.5°	842.3	842.4	842.4	841.5	839.5	837.5	835.5	833.5	835.5	837.5	839.5
135°	903.1	902.9	902.7	901.8	900.3	898.9	897.4	896.0	897.4	898.9	900.3
137.5°	962.3	961.8	961.3	960.3	958.8	957.4	956.0	954.6	956.0	957.4	958.8
140°	999.7	998.9	998.2	997.2	996.0	994.8	993.5	992.3	993.5	994.8	996.0
142.5°	1036.9	1035.9	1035.1	1034.1	1033.0	1032.1	1031.0	1030.0	1031.0	1032.1	1033.0
145°	1091.7	1090.9	1090.1	1089.3	1088.4	1087.4	1086.4	1085.4	1086.4	1087.4	1088.4
147.5°	1140.6	1140.0	1139.3	1138.8	1138.3	1137.7	1137.2	1136.7	1137.2	1137.7	1138.3
150°	1172.1	1171.2	1170.3	1169.9	1170.2	1170.4	1170.6	1170.8	1170.6	1170.4	1170.2
152.5°	1201.4	1201.0	1200.6	1200.2	1200.0	1199.6	1199.2	1198.9	1199.2	1199.6	1200.0
155°	1242.6	1242.5	1242.2	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1
157.5°	1278.8	1278.6	1278.3	1278.5	1279.0	1279.5	1280.1	1280.6	1280.1	1279.5	1279.0
160°	1300.7	1300.4	1300.2	1300.4	1301.2	1301.9	1302.7	1303.3	1302.7	1301.9	1301.2
162.5°	1321.3	1321.2	1321.2	1321.4	1321.9	1322.5	1323.0	1323.5	1323.0	1322.5	1321.9
165°	1348.9	1348.7	1348.4	1348.5	1349.1	1349.5	1350.0	1350.5	1350.0	1349.5	1349.1
167.5°	1368.9	1368.9	1368.9	1369.3	1370.4	1371.3	1372.2	1373.3	1372.2	1371.3	1370.4
170°	1381.1	1381.1	1381.1	1381.7	1382.6	1383.6	1384.6	1385.5	1384.6	1383.6	1382.6
172.5°	1389.9	1389.9	1389.9	1390.4	1391.4	1392.3	1393.4	1394.3	1393.4	1392.3	1391.4
175°	1399.8	1399.8	1399.8	1400.2	1401.2	1402.2	1403.2	1404.1	1403.2	1402.2	1401.2
177.5°	1405.2	1405.4	1405.6	1406.1	1406.8	1407.6	1408.4	1409.2	1408.4	1407.6	1406.8
180°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1472.8	1467.3	1462.6	1452.5	1446.9	1439.3	1433.1	1439.7	1432.7	1435.7	1431.2
5°	1426.9	1409.1	1396.4	1377.9	1362.1	1347.4	1336.6	1334.6	1329.6	1327.0	1319.4
7.5°	1371.7	1349.4	1327.6	1303.3	1283.0	1262.3	1249.1	1238.1	1230.9	1221.3	1214.8
10°	1339.2	1309.2	1283.8	1254.5	1229.1	1206.8	1189.0	1180.1	1171.9	1159.7	1155.3
12.5°	1298.9	1268.0	1237.0	1205.7	1181.2	1156.4	1141.1	1127.7	1121.9	1108.3	1106.9
15°	1250.8	1204.3	1173.7	1141.9	1108.2	1087.9	1075.2	1060.5	1054.1	1044.6	1037.6
17.5°	1193.2	1151.7	1113.5	1080.6	1051.7	1034.5	1018.8	1008.7	997.8	991.6	980.1
20°	1151.5	1112.0	1073.8	1038.9	1016.6	996.8	984.1	974.6	963.2	960.0	948.6
22.5°	1116.3	1072.8	1036.2	1006.8	982.5	960.3	946.5	940.0	932.1	922.3	920.0
25°	1059.2	1014.1	982.9	953.7	932.0	911.6	902.1	893.8	886.2	879.2	876.7
27.5°	1009.8	969.5	932.5	906.1	887.2	868.6	860.3	850.2	844.6	839.0	832.1
30°	975.2	933.9	901.4	876.0	855.6	839.1	830.2	823.2	818.1	813.0	809.2
32.5°	939.6	901.4	869.9	845.0	824.6	812.1	804.3	799.3	793.7	787.6	782.8
35°	892.6	850.6	820.0	798.4	782.5	773.0	764.0	759.6	753.2	753.2	748.1
37.5°	839.5	803.2	776.3	756.6	742.3	733.8	724.1	721.0	717.0	714.3	712.5
40°	807.9	774.2	748.8	729.1	713.8	706.8	699.2	694.1	691.5	688.3	687.0
42.5°	775.3	743.2	718.8	700.6	687.3	681.4	674.2	670.6	665.5	661.4	660.6
45°	725.9	694.7	672.4	657.8	646.3	639.3	634.9	627.3	624.7	619.6	619.0
47.5°	678.9	649.0	627.2	615.2	605.1	599.4	592.4	584.8	581.8	579.3	579.0
50°	643.9	616.4	596.1	584.7	575.1	566.8	559.9	554.8	552.8	552.8	554.1
52.5°	608.2	584.8	567.6	553.6	544.6	535.7	529.3	526.2	523.3	526.4	528.7
55°	556.0	532.4	519.7	506.4	497.5	487.3	484.1	482.9	481.0	486.1	488.6
57.5°	500.8	484.3	469.4	456.1	448.1	442.2	437.9	437.2	440.7	443.2	451.4
60°	465.7	446.6	433.2	423.0	413.5	409.7	408.4	407.2	409.7	416.7	427.5
62.5°	427.0	411.5	397.1	389.5	382.5	376.1	375.9	376.6	381.7	389.7	400.5
65°	370.2	356.8	347.3	338.5	332.7	328.9	330.2	332.7	338.5	349.2	361.4
67.5°	312.6	303.5	294.9	287.7	282.2	282.2	283.5	287.3	294.1	306.5	317.5
70°	275.5	265.3	258.3	255.1	250.6	248.1	251.9	258.3	264.0	275.5	285.0
72.5°	238.3	229.7	224.2	222.1	220.1	218.1	219.3	226.2	233.9	245.4	256.5
75°	183.2	180.0	176.3	173.7	171.7	173.1	174.3	180.7	187.0	199.2	211.9
77.5°	133.7	130.4	128.1	127.5	126.5	127.1	130.6	135.3	141.6	150.4	160.0
80°	101.1	99.9	98.6	97.9	97.9	98.6	103.7	106.9	112.6	120.8	128.5
82.5°	73.7	72.9	72.7	72.5	73.0	73.1	76.3	80.4	85.1	91.3	97.9
85°	38.8	37.5	39.4	40.1	38.8	40.7	41.9	44.5	46.5	49.6	52.8
87.5°	14.5	15.9	15.7	16.6	16.9	18.3	18.0	20.3	21.6	22.8	22.5
90°	8.9	10.7	12.4	14.1	15.8	17.5	18.8	20.0	21.2	22.4	23.4
92.5°	32.0	33.6	35.8	37.9	40.0	42.0	43.6	45.2	46.8	48.4	49.6
95°	73.1	74.6	77.0	79.5	81.9	84.4	86.1	87.8	89.4	91.1	92.3
97.5°	119.0	120.8	124.2	127.5	130.9	134.3	135.9	137.5	139.1	140.7	141.7
100°	153.4	155.0	158.1	161.3	164.4	167.6	169.8	171.9	174.2	176.3	177.7
102.5°	194.9	196.2	197.8	199.4	201.0	202.6	205.0	207.4	209.8	212.2	213.7
105°	254.6	255.9	257.4	258.8	260.3	261.7	263.3	264.7	266.2	267.6	268.7
107.5°	319.4	320.6	321.7	322.8	324.0	325.1	325.8	326.5	327.3	328.0	328.4
110°	364.1	365.0	365.8	366.6	367.3	368.0	368.7	369.5	370.2	370.9	371.2



TEST NUMBER: P333287-830

CATALOG NUMBER: S125DIP-S1090D1205U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	407.4	408.1	409.1	410.0	410.9	411.8	412.2	412.6	412.8	413.2	413.1
115°	476.0	476.6	477.2	477.7	478.2	478.6	478.4	478.2	477.9	477.7	477.4
117.5°	541.3	541.7	542.2	542.6	543.0	543.5	543.7	543.8	544.0	544.2	543.8
120°	586.4	587.2	587.4	587.7	588.0	588.1	588.1	588.1	588.1	588.1	587.7
122.5°	628.9	629.4	630.1	630.7	631.3	632.0	631.8	631.6	631.4	631.2	630.7
125°	694.7	695.6	695.9	696.1	696.4	696.6	696.1	695.6	695.1	694.7	694.3
127.5°	758.0	758.6	758.8	759.1	759.4	759.7	759.4	759.2	758.9	758.7	758.4
130°	798.9	799.8	800.3	800.8	801.3	801.7	801.5	801.3	801.0	800.8	800.4
132.5°	841.5	842.4	842.4	842.3	842.2	842.1	841.8	841.6	841.3	841.0	840.7
135°	901.8	902.7	902.9	903.1	903.3	903.6	903.6	903.6	903.6	903.6	903.1
137.5°	960.3	961.3	961.8	962.3	962.9	963.4	963.7	964.0	964.3	964.6	964.1
140°	997.2	998.2	998.9	999.7	1000.3	1001.1	1001.5	1002.0	1002.6	1003.1	1002.7
142.5°	1034.1	1035.1	1035.9	1036.9	1037.8	1038.8	1039.1	1039.3	1039.6	1039.9	1039.4
145°	1089.3	1090.1	1090.9	1091.7	1092.3	1093.1	1093.1	1093.1	1093.1	1093.1	1092.7
147.5°	1138.8	1139.3	1140.0	1140.6	1141.1	1141.7	1142.3	1142.9	1143.5	1144.1	1143.5
150°	1169.9	1170.3	1171.2	1172.1	1173.2	1174.1	1174.1	1174.1	1174.1	1174.1	1173.9
152.5°	1200.2	1200.6	1201.0	1201.4	1201.8	1202.2	1202.8	1203.3	1203.9	1204.5	1204.4
155°	1242.1	1242.2	1242.5	1242.6	1242.9	1243.1	1244.2	1245.1	1246.0	1247.1	1246.9
157.5°	1278.5	1278.3	1278.6	1278.8	1279.0	1279.3	1280.3	1281.2	1282.2	1283.2	1282.9
160°	1300.4	1300.2	1300.4	1300.7	1301.0	1301.2	1302.1	1303.2	1304.1	1305.0	1305.0
162.5°	1321.4	1321.2	1321.2	1321.3	1321.3	1321.4	1322.5	1323.7	1324.8	1326.1	1325.9
165°	1348.5	1348.4	1348.7	1348.9	1349.2	1349.3	1350.4	1351.3	1352.3	1353.3	1353.0
167.5°	1369.3	1368.9	1368.9	1368.9	1368.9	1368.9	1370.4	1371.8	1373.3	1374.7	1374.7
170°	1381.7	1381.1	1381.1	1381.1	1381.1	1381.1	1382.6	1384.0	1385.5	1387.0	1386.9
172.5°	1390.4	1389.9	1389.9	1389.9	1389.9	1389.9	1391.4	1392.8	1394.3	1395.7	1395.7
175°	1400.2	1399.8	1399.8	1399.8	1399.8	1399.8	1401.2	1402.7	1404.1	1405.6	1405.5
177.5°	1406.1	1405.6	1405.4	1405.2	1405.0	1404.8	1406.0	1407.1	1408.3	1409.5	1409.4
180°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4



TEST NUMBER: P333287-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1428.0	1431.6	1428.6	1432.7	1428.6	1431.6	1428.0	1431.2	1435.7	1432.7	1439.7
5°	1316.3	1310.5	1314.3	1311.7	1314.3	1310.5	1316.3	1319.4	1327.0	1329.6	1334.6
7.5°	1213.0	1207.5	1201.2	1198.3	1201.2	1207.5	1213.0	1214.8	1221.3	1230.9	1238.1
10°	1148.3	1141.3	1140.7	1136.2	1140.7	1141.3	1148.3	1155.3	1159.7	1171.9	1180.1
12.5°	1101.0	1094.5	1087.2	1085.3	1087.2	1094.5	1101.0	1106.9	1108.3	1121.9	1127.7
15°	1033.8	1028.7	1024.3	1028.0	1024.3	1028.7	1033.8	1037.6	1044.6	1054.1	1060.5
17.5°	977.9	973.7	973.0	968.3	973.0	973.7	977.9	980.1	991.6	997.8	1008.7
20°	942.8	939.6	940.9	932.6	940.9	939.6	942.8	948.6	960.0	963.2	974.6
22.5°	914.8	908.6	907.9	906.2	907.9	908.6	914.8	920.0	922.3	932.1	940.0
25°	870.9	867.7	864.6	867.7	864.6	867.7	870.9	876.7	879.2	886.2	893.8
27.5°	832.6	828.8	827.9	828.3	827.9	828.8	832.6	832.1	839.0	844.6	850.2
30°	809.2	802.9	803.5	802.9	803.5	802.9	809.2	809.2	813.0	818.1	823.2
32.5°	783.7	779.4	778.5	777.4	778.5	779.4	783.7	782.8	787.6	793.7	799.3
35°	746.2	746.2	743.0	743.0	743.0	746.2	746.2	748.1	753.2	753.2	759.6
37.5°	711.0	710.3	708.4	708.7	708.4	710.3	711.0	712.5	714.3	717.0	721.0
40°	684.5	683.9	681.9	678.2	681.9	683.9	684.5	687.0	688.3	691.5	694.1
42.5°	659.0	657.0	656.0	654.8	656.0	657.0	659.0	660.6	661.4	665.5	670.6
45°	619.0	619.0	617.7	617.1	617.7	619.0	619.0	619.0	619.6	624.7	627.3
47.5°	580.0	581.2	583.6	583.2	583.6	581.2	580.0	579.0	579.3	581.8	584.8
50°	556.7	557.3	559.2	559.9	559.2	557.3	556.7	554.1	552.8	552.8	554.8
52.5°	530.7	534.4	536.8	536.4	536.8	534.4	530.7	528.7	526.4	523.3	526.2
55°	494.3	498.8	503.2	503.9	503.2	498.8	494.3	488.6	486.1	481.0	482.9
57.5°	458.3	464.5	469.2	470.8	469.2	464.5	458.3	451.4	443.2	440.7	437.2
60°	433.9	442.1	447.9	450.4	447.9	442.1	433.9	427.5	416.7	409.7	407.2
62.5°	410.5	419.7	425.5	425.9	425.5	419.7	410.5	400.5	389.7	381.7	376.6
65°	372.1	381.7	386.8	390.6	386.8	381.7	372.1	361.4	349.2	338.5	332.7
67.5°	330.9	340.4	346.1	349.1	346.1	340.4	330.9	317.5	306.5	294.1	287.3
70°	301.0	310.5	318.1	320.7	318.1	310.5	301.0	285.0	275.5	264.0	258.3
72.5°	271.4	279.9	286.1	289.1	286.1	279.9	271.4	256.5	245.4	233.9	226.2
75°	220.1	231.6	237.3	240.4	237.3	231.6	220.1	211.9	199.2	187.0	180.7
77.5°	169.8	180.1	183.6	185.2	183.6	180.1	169.8	160.0	150.4	141.6	135.3
80°	136.1	142.5	146.9	147.6	146.9	142.5	136.1	128.5	120.8	112.6	106.9
82.5°	104.6	109.9	111.3	113.0	111.3	109.9	104.6	97.9	91.3	85.1	80.4
85°	57.2	59.8	60.4	59.8	60.4	59.8	57.2	52.8	49.6	46.5	44.5
87.5°	23.7	23.3	23.5	24.6	23.5	23.3	23.7	22.5	22.8	21.6	20.3
90°	24.1	24.8	25.5	26.3	25.5	24.8	24.1	23.4	22.4	21.2	20.0
92.5°	50.0	50.6	51.2	51.7	51.2	50.6	50.0	49.6	48.4	46.8	45.2
95°	92.7	93.2	93.7	94.2	93.7	93.2	92.7	92.3	91.1	89.4	87.8
97.5°	141.9	142.2	142.5	142.8	142.5	142.2	141.9	141.7	140.7	139.1	137.5
100°	178.1	178.6	179.2	179.6	179.2	178.6	178.1	177.7	176.3	174.2	171.9
102.5°	214.4	215.1	215.7	216.4	215.7	215.1	214.4	213.7	212.2	209.8	207.4
105°	269.5	270.1	270.9	271.6	270.9	270.1	269.5	268.7	267.6	266.2	264.7
107.5°	328.3	328.3	328.2	328.1	328.2	328.3	328.3	328.4	328.0	327.3	326.5
110°	370.9	370.7	370.4	370.2	370.4	370.7	370.9	371.2	370.9	370.2	369.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	412.7	412.3	411.8	411.4	411.8	412.3	412.7	413.1	413.2	412.8	412.6
115°	477.2	476.9	476.6	476.5	476.6	476.9	477.2	477.4	477.7	477.9	478.2
117.5°	542.9	542.0	540.9	540.0	540.9	542.0	542.9	543.8	544.2	544.0	543.8
120°	586.7	585.7	584.8	583.8	584.8	585.7	586.7	587.7	588.1	588.1	588.1
122.5°	629.9	629.1	628.4	627.6	628.4	629.1	629.9	630.7	631.2	631.4	631.6
125°	694.1	693.8	693.5	693.3	693.5	693.8	694.1	694.3	694.7	695.1	695.6
127.5°	757.9	757.3	756.9	756.4	756.9	757.3	757.9	758.4	758.7	758.9	759.2
130°	799.9	799.5	798.9	798.4	798.9	799.5	799.9	800.4	800.8	801.0	801.3
132.5°	839.9	839.2	838.6	837.9	838.6	839.2	839.9	840.7	841.0	841.3	841.6
135°	902.1	901.2	900.2	899.2	900.2	901.2	902.1	903.1	903.6	903.6	903.6
137.5°	962.9	961.7	960.5	959.2	960.5	961.7	962.9	964.1	964.6	964.3	964.0
140°	1001.5	1000.2	999.0	997.8	999.0	1000.2	1001.5	1002.7	1003.1	1002.6	1002.0
142.5°	1038.2	1037.1	1035.9	1034.6	1035.9	1037.1	1038.2	1039.4	1039.9	1039.6	1039.3
145°	1092.0	1091.3	1090.5	1089.8	1090.5	1091.3	1092.0	1092.7	1093.1	1093.1	1093.1
147.5°	1141.9	1140.2	1138.6	1136.9	1138.6	1140.2	1141.9	1143.5	1144.1	1143.5	1142.9
150°	1173.4	1172.9	1172.4	1172.0	1172.4	1172.9	1173.4	1173.9	1174.1	1174.1	1174.1
152.5°	1203.5	1202.6	1201.7	1200.9	1201.7	1202.6	1203.5	1204.4	1204.5	1203.9	1203.3
155°	1245.7	1244.4	1243.3	1242.1	1243.3	1244.4	1245.7	1246.9	1247.1	1246.0	1245.1
157.5°	1281.3	1279.7	1278.1	1276.5	1278.1	1279.7	1281.3	1282.9	1283.2	1282.2	1281.2
160°	1303.7	1302.5	1301.3	1300.1	1301.3	1302.5	1303.7	1305.0	1305.0	1304.1	1303.2
162.5°	1324.5	1323.0	1321.6	1320.2	1321.6	1323.0	1324.5	1325.9	1326.1	1324.8	1323.7
165°	1351.6	1350.1	1348.7	1347.2	1348.7	1350.1	1351.6	1353.0	1353.3	1352.3	1351.3
167.5°	1373.2	1371.7	1370.2	1368.7	1370.2	1371.7	1373.2	1374.7	1374.7	1373.3	1371.8
170°	1385.2	1383.5	1381.8	1380.1	1381.8	1383.5	1385.2	1386.9	1387.0	1385.5	1384.0
172.5°	1394.2	1392.7	1391.2	1389.7	1391.2	1392.7	1394.2	1395.7	1395.7	1394.3	1392.8
175°	1403.8	1402.1	1400.3	1398.6	1400.3	1402.1	1403.8	1405.5	1405.6	1404.1	1402.7
177.5°	1408.1	1406.7	1405.3	1403.9	1405.3	1406.7	1408.1	1409.4	1409.5	1408.3	1407.1
180°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1433.1	1439.3	1446.9	1452.5	1462.6	1467.3	1472.8	1477.4	1485.5	1493.2	1502.4
5°	1336.6	1347.4	1362.1	1377.9	1396.4	1409.1	1426.9	1437.8	1459.3	1479.1	1498.2
7.5°	1249.1	1262.3	1283.0	1303.3	1327.6	1349.4	1371.7	1396.4	1424.0	1456.6	1483.6
10°	1189.0	1206.8	1229.1	1254.5	1283.8	1309.2	1339.2	1365.8	1399.6	1437.8	1473.4
12.5°	1141.1	1156.4	1181.2	1205.7	1237.0	1268.0	1298.9	1334.3	1373.7	1415.9	1460.7
15°	1075.2	1087.9	1108.2	1141.9	1173.7	1204.3	1250.8	1283.8	1333.4	1380.4	1434.5
17.5°	1018.8	1034.5	1051.7	1080.6	1113.5	1151.7	1193.2	1234.6	1282.5	1342.2	1403.2
20°	984.1	996.8	1016.6	1038.9	1073.8	1112.0	1151.5	1193.4	1252.0	1313.7	1379.2
22.5°	946.5	960.3	982.5	1006.8	1036.2	1072.8	1116.3	1162.4	1223.5	1284.2	1355.3
25°	902.1	911.6	932.0	953.7	982.9	1014.1	1059.2	1110.1	1170.5	1239.9	1312.4
27.5°	860.3	868.6	887.2	906.1	932.5	969.5	1009.8	1061.3	1118.2	1188.5	1268.9
30°	830.2	839.1	855.6	876.0	901.4	933.9	975.2	1023.6	1084.7	1153.4	1237.4
32.5°	804.3	812.1	824.6	845.0	869.9	901.4	939.6	989.0	1050.1	1119.7	1202.2
35°	764.0	773.0	782.5	798.4	820.0	850.6	892.6	939.0	997.5	1065.0	1140.7
37.5°	724.1	733.8	742.3	756.6	776.3	803.2	839.5	887.9	940.8	1005.8	1078.5
40°	699.2	706.8	713.8	729.1	748.8	774.2	807.9	851.2	907.2	967.6	1028.0
42.5°	674.2	681.4	687.3	700.6	718.8	743.2	775.3	817.6	869.5	925.9	979.2
45°	634.9	639.3	646.3	657.8	672.4	694.7	725.9	763.4	807.3	860.7	900.8
47.5°	592.4	599.4	605.1	615.2	627.2	649.0	678.9	710.9	750.6	790.4	818.6
50°	559.9	566.8	575.1	584.7	596.1	616.4	643.9	676.3	709.9	740.5	764.7
52.5°	529.3	535.7	544.6	553.6	567.6	584.8	608.2	637.1	670.2	692.1	712.3
55°	484.1	487.3	497.5	506.4	519.7	532.4	556.0	581.5	601.8	618.4	634.9
57.5°	437.9	442.2	448.1	456.1	469.4	484.3	500.8	523.3	535.3	543.8	556.7
60°	408.4	409.7	413.5	423.0	433.2	446.6	465.7	481.5	490.5	497.5	508.3
62.5°	375.9	376.1	382.5	389.5	397.1	411.5	427.0	439.9	447.2	450.6	461.0
65°	330.2	328.9	332.7	338.5	347.3	356.8	370.2	381.7	381.1	384.8	391.2
67.5°	283.5	282.2	282.2	287.7	294.9	303.5	312.6	319.2	319.3	324.4	327.6
70°	251.9	248.1	250.6	255.1	258.3	265.3	275.5	278.1	278.6	281.2	284.4
72.5°	219.3	218.1	220.1	222.1	224.2	229.7	238.3	239.9	240.0	241.5	246.7
75°	174.3	173.1	171.7	173.7	176.3	180.0	183.2	185.8	185.1	185.8	189.5
77.5°	130.6	127.1	126.5	127.5	128.1	130.4	133.7	133.5	134.1	133.9	138.3
80°	103.7	98.6	97.9	97.9	98.6	99.9	101.1	102.5	100.5	102.5	103.7
82.5°	76.3	73.1	73.0	72.5	72.7	72.9	73.7	74.5	74.1	74.9	75.7
85°	41.9	40.7	38.8	40.1	39.4	37.5	38.8	36.9	36.3	36.9	37.5
87.5°	18.0	18.3	16.9	16.6	15.7	15.9	14.5	13.6	12.7	12.8	13.9
90°	18.8	17.5	15.8	14.1	12.4	10.7	8.9	7.0	5.0	3.0	1.1
92.5°	43.6	42.0	40.0	37.9	35.8	33.6	32.0	30.6	29.2	27.9	26.5
95°	86.1	84.4	81.9	79.5	77.0	74.6	73.1	72.7	72.2	71.6	71.2
97.5°	135.9	134.3	130.9	127.5	124.2	120.8	119.0	118.9	118.7	118.5	118.3
100°	169.8	167.6	164.4	161.3	158.1	155.0	153.4	153.4	153.4	153.4	153.4
102.5°	205.0	202.6	201.0	199.4	197.8	196.2	194.9	194.0	192.9	192.0	191.1
105°	263.3	261.7	260.3	258.8	257.4	255.9	254.6	253.4	252.1	250.9	249.7
107.5°	325.8	325.1	324.0	322.8	321.7	320.6	319.4	318.2	317.0	315.8	314.5
110°	368.7	368.0	367.3	366.6	365.8	365.0	364.1	362.9	361.7	360.4	359.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	412.2	411.8	410.9	410.0	409.1	408.1	407.4	406.7	406.0	405.5	404.8
115°	478.4	478.6	478.2	477.7	477.2	476.6	476.0	474.9	474.0	473.1	472.0
117.5°	543.7	543.5	543.0	542.6	542.2	541.7	541.3	540.8	540.5	540.0	539.5
120°	588.1	588.1	588.0	587.7	587.4	587.2	586.4	585.2	584.0	582.8	581.5
122.5°	631.8	632.0	631.3	630.7	630.1	629.4	628.9	628.5	628.0	627.6	627.2
125°	696.1	696.6	696.4	696.1	695.9	695.6	694.7	693.3	691.8	690.4	688.9
127.5°	759.4	759.7	759.4	759.1	758.8	758.6	758.0	757.1	756.3	755.4	754.7
130°	801.5	801.7	801.3	800.8	800.3	799.8	798.9	797.8	796.5	795.3	794.1
132.5°	841.8	842.1	842.2	842.3	842.4	842.4	841.5	839.5	837.5	835.5	833.5
135°	903.6	903.6	903.3	903.1	902.9	902.7	901.8	900.3	898.9	897.4	896.0
137.5°	963.7	963.4	962.9	962.3	961.8	961.3	960.3	958.8	957.4	956.0	954.6
140°	1001.5	1001.1	1000.3	999.7	998.9	998.2	997.2	996.0	994.8	993.5	992.3
142.5°	1039.1	1038.8	1037.8	1036.9	1035.9	1035.1	1034.1	1033.0	1032.1	1031.0	1030.0
145°	1093.1	1093.1	1092.3	1091.7	1090.9	1090.1	1089.3	1088.4	1087.4	1086.4	1085.4
147.5°	1142.3	1141.7	1141.1	1140.6	1140.0	1139.3	1138.8	1138.3	1137.7	1137.2	1136.7
150°	1174.1	1174.1	1173.2	1172.1	1171.2	1170.3	1169.9	1170.2	1170.4	1170.6	1170.8
152.5°	1202.8	1202.2	1201.8	1201.4	1201.0	1200.6	1200.2	1200.0	1199.6	1199.2	1198.9
155°	1244.2	1243.1	1242.9	1242.6	1242.5	1242.2	1242.1	1242.1	1242.1	1242.1	1242.1
157.5°	1280.3	1279.3	1279.0	1278.8	1278.6	1278.3	1278.5	1279.0	1279.5	1280.1	1280.6
160°	1302.1	1301.2	1301.0	1300.7	1300.4	1300.2	1300.4	1301.2	1301.9	1302.7	1303.3
162.5°	1322.5	1321.4	1321.3	1321.3	1321.2	1321.2	1321.4	1321.9	1322.5	1323.0	1323.5
165°	1350.4	1349.3	1349.2	1348.9	1348.7	1348.4	1348.5	1349.1	1349.5	1350.0	1350.5
167.5°	1370.4	1368.9	1368.9	1368.9	1368.9	1368.9	1369.3	1370.4	1371.3	1372.2	1373.3
170°	1382.6	1381.1	1381.1	1381.1	1381.1	1381.1	1381.7	1382.6	1383.6	1384.6	1385.5
172.5°	1391.4	1389.9	1389.9	1389.9	1389.9	1389.9	1390.4	1391.4	1392.3	1393.4	1394.3
175°	1401.2	1399.8	1399.8	1399.8	1399.8	1399.8	1400.2	1401.2	1402.2	1403.2	1404.1
177.5°	1406.0	1404.8	1405.0	1405.2	1405.4	1405.6	1406.1	1406.8	1407.6	1408.4	1409.2
180°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1506.9	1514.1	1518.6	1527.3	1534.5	1538.5	1542.1	1545.1	1548.7	1551.7	1560.4
5°	1516.6	1533.1	1547.2	1568.8	1588.6	1603.8	1620.3	1634.9	1647.0	1664.2	1677.5
7.5°	1512.4	1541.8	1572.6	1606.1	1640.3	1672.1	1701.4	1728.7	1753.5	1783.6	1809.9
10°	1508.4	1548.4	1587.9	1633.0	1679.5	1718.9	1755.9	1793.4	1820.7	1858.9	1891.3
12.5°	1505.3	1552.5	1600.1	1654.4	1705.4	1761.1	1810.2	1837.7	1879.2	1909.8	1948.3
15°	1492.4	1554.8	1620.3	1681.4	1753.9	1805.4	1848.7	1902.1	1941.0	1979.7	2021.8
17.5°	1469.4	1540.0	1613.4	1693.4	1762.9	1818.3	1874.1	1925.5	1971.9	2023.9	2076.2
20°	1458.8	1529.4	1613.4	1695.4	1763.5	1821.4	1878.6	1935.2	1986.1	2053.0	2113.4
22.5°	1436.3	1521.7	1599.1	1679.1	1749.2	1812.2	1877.1	1941.4	2009.0	2084.4	2160.2
25°	1396.4	1482.9	1565.0	1643.9	1714.5	1793.4	1862.7	1948.6	2035.1	2135.0	2229.1
27.5°	1354.9	1437.8	1513.0	1589.1	1671.5	1760.8	1850.8	1948.2	2061.4	2187.5	2320.4
30°	1321.4	1399.6	1472.7	1551.0	1636.8	1737.4	1836.0	1951.7	2082.8	2224.7	2382.5
32.5°	1282.1	1354.2	1425.4	1508.3	1601.8	1707.9	1822.8	1949.7	2107.2	2268.4	2430.8
35°	1215.1	1275.5	1348.7	1437.1	1542.8	1664.2	1797.1	1947.3	2128.0	2313.1	2449.9
37.5°	1135.6	1191.8	1268.9	1365.8	1476.6	1606.9	1764.7	1942.9	2134.8	2282.4	2326.5
40°	1082.1	1134.3	1214.5	1314.9	1428.2	1566.2	1739.3	1927.6	2113.4	2207.5	2171.2
42.5°	1025.1	1079.9	1157.9	1257.4	1379.3	1529.7	1707.2	1895.5	2051.3	2086.9	1961.5
45°	935.2	991.7	1068.7	1169.3	1300.3	1463.2	1648.3	1819.5	1909.1	1844.9	1650.9
47.5°	851.6	904.7	976.0	1079.7	1214.9	1383.4	1561.7	1698.2	1705.3	1552.0	1344.7
50°	794.6	843.6	915.5	1019.2	1153.4	1323.9	1484.8	1592.3	1544.0	1370.3	1171.2
52.5°	738.6	786.6	857.4	960.1	1092.8	1249.1	1398.8	1474.2	1383.2	1204.9	1034.8
55°	657.8	699.7	769.1	863.9	989.9	1134.9	1262.2	1288.3	1169.9	994.3	856.3
57.5°	578.9	618.1	681.2	768.5	883.6	1012.1	1111.6	1106.1	981.0	830.3	720.8
60°	525.5	563.6	619.6	704.8	809.8	920.6	1005.8	985.4	861.4	731.6	639.3
62.5°	477.7	511.7	564.7	639.2	735.0	837.5	907.6	877.5	756.0	642.5	569.7
65°	407.2	435.7	481.0	544.6	624.1	708.7	762.8	724.0	620.3	531.9	473.3
67.5°	339.9	362.8	400.7	451.4	519.2	587.2	620.1	581.1	498.1	433.6	390.2
70°	297.1	317.4	346.7	391.9	451.0	508.3	533.1	498.1	426.9	371.6	340.4
72.5°	254.3	271.2	296.8	337.4	384.8	434.5	456.3	422.8	364.3	317.5	288.4
75°	196.6	208.0	225.8	253.8	291.3	330.8	342.9	313.7	276.1	241.1	222.1
77.5°	140.7	150.4	163.9	181.5	208.1	233.2	243.7	226.9	197.8	175.7	160.0
80°	108.1	113.2	124.7	139.3	160.3	176.3	183.2	172.4	152.0	135.5	123.4
82.5°	77.1	82.2	89.1	101.1	114.5	125.4	132.8	125.5	110.8	97.8	90.9
85°	37.5	40.7	44.5	49.6	59.8	66.2	65.5	61.1	55.3	50.2	46.5
87.5°	13.9	14.7	16.7	19.6	21.5	23.8	25.3	24.5	22.8	21.6	20.3
90°	3.0	5.0	7.0	8.9	10.7	12.4	14.1	15.8	17.5	18.8	20.0
92.5°	27.9	29.2	30.6	32.0	33.6	35.8	37.9	40.0	42.0	43.6	45.2
95°	71.6	72.2	72.7	73.1	74.6	77.0	79.5	81.9	84.4	86.1	87.8
97.5°	118.5	118.7	118.9	119.0	120.8	124.2	127.5	130.9	134.3	135.9	137.5
100°	153.4	153.4	153.4	153.4	155.0	158.1	161.3	164.4	167.6	169.8	171.9
102.5°	192.0	192.9	194.0	194.9	196.2	197.8	199.4	201.0	202.6	205.0	207.4
105°	250.9	252.1	253.4	254.6	255.9	257.4	258.8	260.3	261.7	263.3	264.7
107.5°	315.8	317.0	318.2	319.4	320.6	321.7	322.8	324.0	325.1	325.8	326.5
110°	360.4	361.7	362.9	364.1	365.0	365.8	366.6	367.3	368.0	368.7	369.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	405.5	406.0	406.7	407.4	408.1	409.1	410.0	410.9	411.8	412.2	412.6
115°	473.1	474.0	474.9	476.0	476.6	477.2	477.7	478.2	478.6	478.4	478.2
117.5°	540.0	540.5	540.8	541.3	541.7	542.2	542.6	543.0	543.5	543.7	543.8
120°	582.8	584.0	585.2	586.4	587.2	587.4	587.7	588.0	588.1	588.1	588.1
122.5°	627.6	628.0	628.5	628.9	629.4	630.1	630.7	631.3	632.0	631.8	631.6
125°	690.4	691.8	693.3	694.7	695.6	695.9	696.1	696.4	696.6	696.1	695.6
127.5°	755.4	756.3	757.1	758.0	758.6	758.8	759.1	759.4	759.7	759.4	759.2
130°	795.3	796.5	797.8	798.9	799.8	800.3	800.8	801.3	801.7	801.5	801.3
132.5°	835.5	837.5	839.5	841.5	842.4	842.4	842.3	842.2	842.1	841.8	841.6
135°	897.4	898.9	900.3	901.8	902.7	902.9	903.1	903.3	903.6	903.6	903.6
137.5°	956.0	957.4	958.8	960.3	961.3	961.8	962.3	962.9	963.4	963.7	964.0
140°	993.5	994.8	996.0	997.2	998.2	998.9	999.7	1000.3	1001.1	1001.5	1002.0
142.5°	1031.0	1032.1	1033.0	1034.1	1035.1	1035.9	1036.9	1037.8	1038.8	1039.1	1039.3
145°	1086.4	1087.4	1088.4	1089.3	1090.1	1090.9	1091.7	1092.3	1093.1	1093.1	1093.1
147.5°	1137.2	1137.7	1138.3	1138.8	1139.3	1140.0	1140.6	1141.1	1141.7	1142.3	1142.9
150°	1170.6	1170.4	1170.2	1169.9	1170.3	1171.2	1172.1	1173.2	1174.1	1174.1	1174.1
152.5°	1199.2	1199.6	1200.0	1200.2	1200.6	1201.0	1201.4	1201.8	1202.2	1202.8	1203.3
155°	1242.1	1242.1	1242.1	1242.1	1242.2	1242.5	1242.6	1242.9	1243.1	1244.2	1245.1
157.5°	1280.1	1279.5	1279.0	1278.5	1278.3	1278.6	1278.8	1279.0	1279.3	1280.3	1281.2
160°	1302.7	1301.9	1301.2	1300.4	1300.2	1300.4	1300.7	1301.0	1301.2	1302.1	1303.2
162.5°	1323.0	1322.5	1321.9	1321.4	1321.2	1321.2	1321.3	1321.3	1321.4	1322.5	1323.7
165°	1350.0	1349.5	1349.1	1348.5	1348.4	1348.7	1348.9	1349.2	1349.3	1350.4	1351.3
167.5°	1372.2	1371.3	1370.4	1369.3	1368.9	1368.9	1368.9	1368.9	1368.9	1370.4	1371.8
170°	1384.6	1383.6	1382.6	1381.7	1381.1	1381.1	1381.1	1381.1	1381.1	1382.6	1384.0
172.5°	1393.4	1392.3	1391.4	1390.4	1389.9	1389.9	1389.9	1389.9	1389.9	1391.4	1392.8
175°	1403.2	1402.2	1401.2	1400.2	1399.8	1399.8	1399.8	1399.8	1399.8	1401.2	1402.7
177.5°	1408.4	1407.6	1406.8	1406.1	1405.6	1405.4	1405.2	1405.0	1404.8	1406.0	1407.1
180°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1567.5	1571.6	1580.3	1577.2	1581.3	1583.3	1585.4
5°	1694.1	1714.5	1723.3	1722.1	1735.5	1732.3	1729.1
7.5°	1837.1	1858.5	1870.5	1885.4	1894.0	1894.6	1902.1
10°	1918.1	1946.1	1957.5	1973.4	1983.6	1989.3	1988.7
12.5°	1980.2	2002.1	2027.7	2035.5	2049.3	2056.4	2053.8
15°	2054.8	2089.8	2116.6	2129.9	2147.1	2152.2	2159.2
17.5°	2121.5	2168.4	2199.6	2241.1	2256.7	2266.2	2260.7
20°	2171.9	2233.6	2264.7	2314.4	2341.7	2356.4	2351.3
22.5°	2231.5	2298.2	2355.9	2398.9	2440.4	2460.2	2464.3
25°	2333.5	2425.1	2509.7	2566.4	2617.8	2629.9	2656.7
27.5°	2447.5	2555.5	2646.0	2705.5	2741.4	2754.9	2763.3
30°	2519.2	2626.8	2694.8	2733.0	2744.4	2743.2	2741.9
32.5°	2554.4	2621.7	2634.8	2624.0	2597.8	2575.7	2552.6
35°	2504.6	2454.4	2379.3	2282.6	2211.3	2139.5	2132.4
37.5°	2252.6	2091.9	1966.9	1827.3	1746.8	1697.0	1662.7
40°	2015.3	1832.8	1681.4	1563.7	1481.7	1449.2	1417.4
42.5°	1757.8	1583.5	1449.3	1350.9	1289.3	1253.3	1228.0
45°	1428.2	1274.2	1169.3	1098.1	1049.0	1021.1	1005.1
47.5°	1170.3	1056.4	967.2	915.9	882.0	860.3	860.4
50°	1031.9	923.1	863.9	823.2	793.9	776.7	780.0
52.5°	909.2	827.9	777.4	743.3	721.7	711.1	710.8
55°	760.3	701.7	668.6	643.9	629.1	617.1	619.6
57.5°	650.3	601.0	578.8	558.2	548.0	543.2	536.1
60°	582.1	543.9	524.8	508.3	498.1	494.3	487.3
62.5°	521.5	491.5	473.0	459.4	450.3	449.0	443.6
65°	438.3	415.4	398.9	392.5	383.0	380.4	380.4
67.5°	361.4	345.0	332.1	326.2	322.1	322.6	319.6
70°	313.0	299.6	291.3	285.0	281.8	282.5	279.9
72.5°	273.8	258.9	251.7	247.9	243.6	245.3	244.3
75°	207.4	199.7	196.0	192.1	189.5	188.3	187.0
77.5°	152.3	145.5	142.6	140.4	140.8	137.8	140.3
80°	117.7	112.0	110.1	106.9	106.2	106.2	105.6
82.5°	86.1	82.9	81.5	78.9	77.8	78.8	77.1
85°	44.5	41.9	41.4	41.4	40.1	38.8	41.9
87.5°	20.5	18.8	18.9	18.6	18.7	18.4	17.4
90°	21.2	22.4	23.4	24.1	24.8	25.5	26.3
92.5°	46.8	48.4	49.6	50.0	50.6	51.2	51.7
95°	89.4	91.1	92.3	92.7	93.2	93.7	94.2
97.5°	139.1	140.7	141.7	141.9	142.2	142.5	142.8
100°	174.2	176.3	177.7	178.1	178.6	179.2	179.6
102.5°	209.8	212.2	213.7	214.4	215.1	215.7	216.4
105°	266.2	267.6	268.7	269.5	270.1	270.9	271.6
107.5°	327.3	328.0	328.4	328.3	328.3	328.2	328.1
110°	370.2	370.9	371.2	370.9	370.7	370.4	370.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	412.8	413.2	413.1	412.7	412.3	411.8	411.4
115°	477.9	477.7	477.4	477.2	476.9	476.6	476.5
117.5°	544.0	544.2	543.8	542.9	542.0	540.9	540.0
120°	588.1	588.1	587.7	586.7	585.7	584.8	583.8
122.5°	631.4	631.2	630.7	629.9	629.1	628.4	627.6
125°	695.1	694.7	694.3	694.1	693.8	693.5	693.3
127.5°	758.9	758.7	758.4	757.9	757.3	756.9	756.4
130°	801.0	800.8	800.4	799.9	799.5	798.9	798.4
132.5°	841.3	841.0	840.7	839.9	839.2	838.6	837.9
135°	903.6	903.6	903.1	902.1	901.2	900.2	899.2
137.5°	964.3	964.6	964.1	962.9	961.7	960.5	959.2
140°	1002.6	1003.1	1002.7	1001.5	1000.2	999.0	997.8
142.5°	1039.6	1039.9	1039.4	1038.2	1037.1	1035.9	1034.6
145°	1093.1	1093.1	1092.7	1092.0	1091.3	1090.5	1089.8
147.5°	1143.5	1144.1	1143.5	1141.9	1140.2	1138.6	1136.9
150°	1174.1	1174.1	1173.9	1173.4	1172.9	1172.4	1172.0
152.5°	1203.9	1204.5	1204.4	1203.5	1202.6	1201.7	1200.9
155°	1246.0	1247.1	1246.9	1245.7	1244.4	1243.3	1242.1
157.5°	1282.2	1283.2	1282.9	1281.3	1279.7	1278.1	1276.5
160°	1304.1	1305.0	1305.0	1303.7	1302.5	1301.3	1300.1
162.5°	1324.8	1326.1	1325.9	1324.5	1323.0	1321.6	1320.2
165°	1352.3	1353.3	1353.0	1351.6	1350.1	1348.7	1347.2
167.5°	1373.3	1374.7	1374.7	1373.2	1371.7	1370.2	1368.7
170°	1385.5	1387.0	1386.9	1385.2	1383.5	1381.8	1380.1
172.5°	1394.3	1395.7	1395.7	1394.2	1392.7	1391.2	1389.7
175°	1404.1	1405.6	1405.5	1403.8	1402.1	1400.3	1398.6
177.5°	1408.3	1409.5	1409.4	1408.1	1406.7	1405.3	1403.9
180°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4

(END OF REPORT)