

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: P332355

Luminaire Tested: **S123RDIP-S1000D1195U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332355  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D1195U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8060.5 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

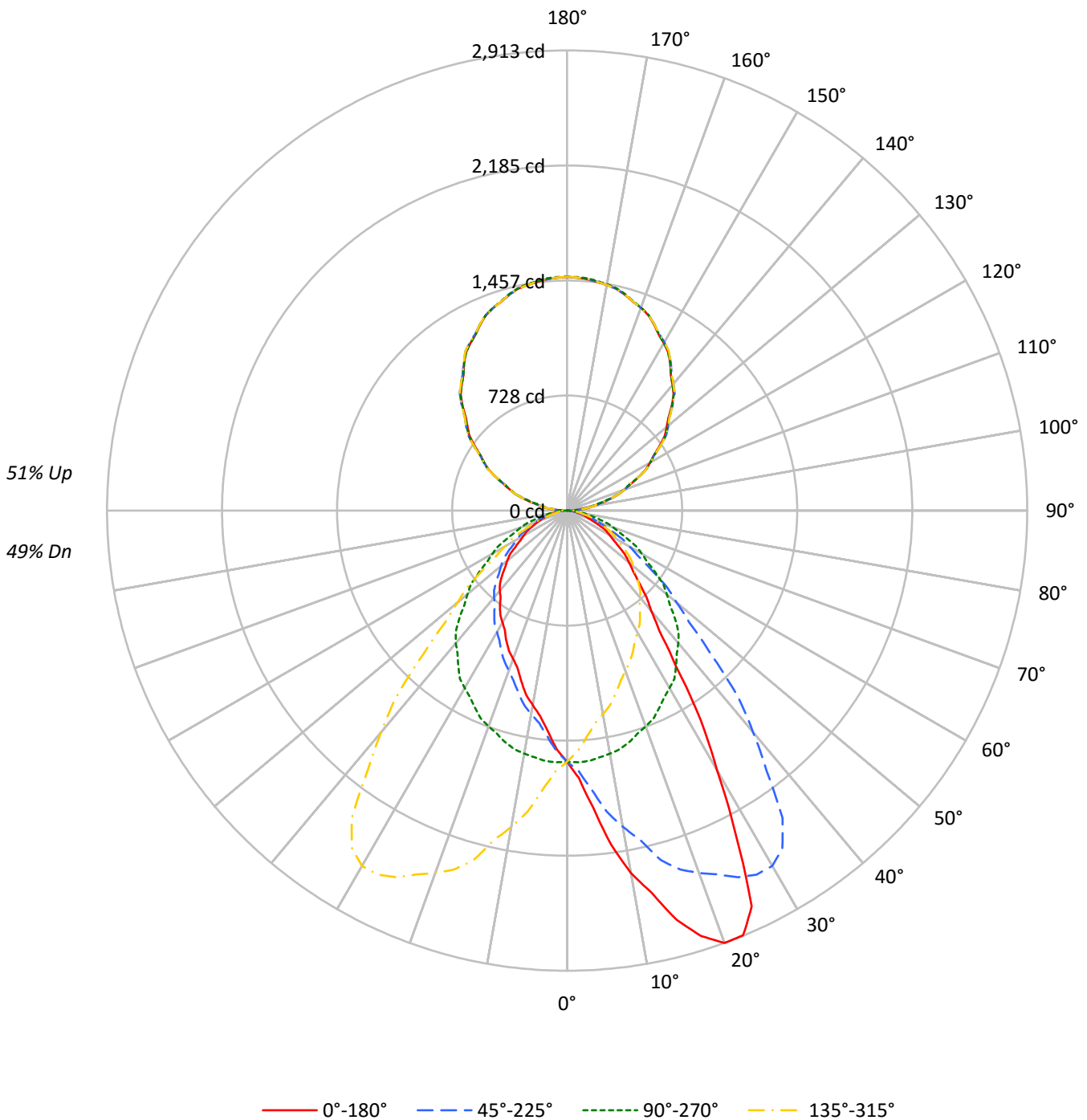
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69	61	60	58	50	49	48	43
2	90	83	77	72	83	77	72	67	65	61	58	54	52	49	45	43	41	37
3	82	73	66	61	76	68	62	57	58	53	50	49	45	43	40	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	58	51	45	64	54	47	42	47	41	37	39	35	32	33	30	28	24
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	24	22
7	59	48	40	34	55	44	38	33	38	33	29	33	29	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	23	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	14

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

	0°	90°	180°	270°
0°	17111	17111	17111	17111
5°	20398	17184	15132	17184
10°	25468	17086	13671	17086
15°	29895	16912	12467	16912
20°	33364	16651	11443	16651
25°	32831	16376	10815	16376
30°	23599	16122	10167	16122
35°	15757	15792	9747	15792
40°	11609	15396	9313	15396
45°	9738	14700	8888	14700
50°	8592	13788	8296	13788
55°	7535	12746	7484	12746
60°	6710	11750	6857	11750
65°	5894	10677	6378	10677
70°	4626	9725	5825	9725
75°	4076	8492	5319	8492
80°	3546	7215	5232	7215
85°	2853	5805	5545	5805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	1.9
10°-20°	488.4	6.1
20°-30°	767.3	9.5
30°-40°	800.5	9.9
40°-50°	685.1	8.5
50°-60°	522.2	6.5
60°-70°	334.7	4.2
70°-80°	161.0	2.0
80°-90°	47.0	0.6
90°-100°	96.4	1.2
100°-110°	288.4	3.6
110°-120°	490.5	6.1
120°-130°	645.2	8.0
130°-140°	725.2	9.0
140°-150°	712.8	8.8
150°-160°	600.1	7.4
160°-170°	399.5	5.0
170°-180°	139.9	1.7
0°-30°	1412.0	17.5
0°-40°	2212.6	27.4
0°-60°	3419.8	42.4
0°-90°	3962.5	49.2
90°-120°	875.3	10.9
90°-150°	2958.5	36.7
90°-180°	4098.0	50.8
0°-180°	8060.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1590	1590	1590	1590	1590	
5°	1888	1590	1400	1590	1888	195
15°	2683	1518	1119	1518	2683	761
25°	2764	1379	911	1379	2764	1188
35°	1199	1202	742	1202	1199	786
45°	640	966	584	966	640	503
55°	402	679	399	679	402	363
65°	231	419	250	419	231	228
75°	98	204	128	204	98	105
85°	23	47	45	47	23	27
90°	35	1	35	1	35	18
95°	91	69	91	69	91	93
105°	276	261	276	261	276	293
115°	495	494	495	494	495	490
125°	715	723	715	723	715	639
135°	936	938	936	938	936	720
145°	1138	1138	1138	1138	1138	710
155°	1300	1302	1300	1302	1300	599
165°	1414	1419	1414	1419	1414	399
175°	1470	1476	1470	1476	1470	140
180°	1479	1479	1479	1479	1479	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1693.2	1695.3	1688.3	1687.2	1679.0	1676.8	1676.8	1665.4	1658.3	1649.1	1643.6
5°	1887.8	1898.7	1893.2	1881.0	1860.6	1855.8	1842.9	1822.5	1799.3	1770.7	1757.1
7.5°	2130.9	2145.7	2140.0	2121.1	2099.7	2082.4	2046.0	2012.1	1964.6	1922.9	1887.3
10°	2330.1	2314.5	2302.2	2283.9	2264.1	2232.1	2194.0	2141.6	2081.1	2033.4	1980.4
12.5°	2479.3	2476.7	2461.2	2442.3	2414.4	2384.0	2337.2	2273.4	2203.0	2134.2	2073.4
15°	2682.7	2686.7	2676.5	2656.8	2617.3	2563.6	2492.8	2466.3	2365.5	2290.7	2215.8
17.5°	2823.4	2822.6	2821.2	2793.9	2753.6	2715.3	2649.7	2579.9	2488.7	2383.2	2282.4
20°	2912.7	2905.9	2907.2	2876.6	2846.7	2802.4	2738.5	2637.1	2562.2	2440.4	2336.3
22.5°	2910.5	2909.1	2914.3	2903.8	2882.1	2848.2	2797.8	2712.2	2616.6	2493.7	2376.6
25°	2764.3	2758.9	2790.9	2799.7	2834.4	2840.5	2825.6	2778.6	2688.1	2561.5	2416.6
27.5°	2313.5	2310.5	2369.9	2444.2	2538.4	2611.6	2682.4	2716.6	2688.1	2597.5	2452.2
30°	1898.7	1962.7	1992.6	2100.1	2219.9	2362.8	2488.0	2607.1	2636.4	2596.9	2477.8
32.5°	1576.4	1632.2	1657.2	1749.5	1861.1	2028.5	2216.4	2385.0	2504.1	2534.3	2462.6
35°	1199.1	1199.8	1256.9	1297.8	1401.2	1573.4	1755.8	1981.7	2206.3	2376.4	2394.1
37.5°	956.8	960.2	994.8	1035.5	1113.1	1204.1	1364.7	1552.6	1812.0	2073.2	2226.3
40°	826.2	832.3	858.2	898.3	954.1	1022.8	1148.1	1325.0	1541.4	1832.0	2069.5
42.5°	742.3	752.3	765.6	796.5	831.1	895.4	996.7	1133.4	1330.2	1605.0	1879.0
45°	639.7	645.1	655.4	669.6	700.9	745.9	813.9	905.8	1069.1	1290.3	1564.5
47.5°	564.3	561.4	572.2	583.8	604.6	635.2	680.8	755.8	872.3	1049.8	1282.4
50°	513.1	512.4	519.9	528.8	548.5	571.0	608.4	664.9	757.4	904.4	1117.4
52.5°	465.2	467.8	473.1	484.1	498.4	516.5	550.1	590.8	670.3	797.2	974.8
55°	401.5	403.6	411.0	417.2	427.4	445.7	466.8	500.9	555.3	643.8	790.1
57.5°	347.6	346.7	353.9	355.4	366.9	381.9	398.2	424.7	464.1	529.9	628.4
60°	311.7	309.6	315.8	320.5	326.7	338.9	352.5	378.4	409.7	458.0	542.4
62.5°	279.0	278.1	282.6	287.3	292.4	303.5	315.0	334.8	359.6	400.3	467.3
65°	231.4	233.4	235.5	237.5	240.2	247.0	257.9	271.5	288.5	317.1	365.4
67.5°	181.8	183.9	184.6	188.8	194.6	198.9	205.5	217.6	229.5	253.6	281.1
70°	147.0	146.3	147.0	149.0	156.5	164.0	172.9	181.7	189.2	206.2	229.3
72.5°	126.3	125.1	126.9	127.3	130.9	133.0	138.6	146.9	156.5	168.1	184.7
75°	98.0	98.0	98.0	98.0	100.7	102.1	104.1	106.2	109.6	115.0	127.3
77.5°	72.4	72.5	73.5	74.2	74.7	75.5	76.8	78.8	80.0	82.9	88.2
80°	57.2	57.8	57.2	57.8	57.8	59.2	59.9	61.9	62.6	66.0	68.1
82.5°	43.0	42.6	43.0	43.7	43.7	45.1	45.2	46.7	46.8	48.6	50.6
85°	23.1	21.8	23.1	22.5	23.8	22.5	23.1	24.5	24.5	25.2	27.9
87.5°	12.4	13.4	12.2	12.7	12.5	12.9	12.7	12.5	13.4	12.7	12.5
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0	28.9	27.9	24.5
92.5°	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3	45.4	44.6	42.7
95°	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0	87.0	86.0	83.9
97.5°	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9	135.7	134.5	133.0
100°	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3	171.6	170.8	169.5
102.5°	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2	212.5	211.7	210.0
105°	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2	274.2	274.2	271.9
107.5°	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2	339.4	338.6	337.6
110°	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3	383.3	382.3	381.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4	427.2	425.9	425.8
115°	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5	495.2	495.0	495.5
117.5°	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2	563.2	563.3	564.0
120°	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3	608.6	608.8	610.1
122.5°	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0	654.6	655.3	656.0
125°	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8	722.8	723.9	724.4
127.5°	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8	790.3	791.7	792.3
130°	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3	834.4	835.4	836.2
132.5°	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6	877.8	879.1	879.6
135°	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4	942.4	943.4	943.7
137.5°	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7	1005.8	1006.9	1006.2
140°	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6
142.5°	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4	1085.6	1085.9	1085.4
145°	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8	1143.0	1143.3	1142.5
147.5°	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4	1230.4	1230.4	1229.9
152.5°	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0	1260.6	1260.2	1259.9
155°	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7	1304.7	1303.6	1303.4
157.5°	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1	1343.1	1342.0	1341.8
160°	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8	1366.5	1365.2	1365.2
162.5°	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1	1388.8	1387.5	1387.3
165°	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3	1416.7	1415.2	1415.2
167.5°	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9	1437.7
170°	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0	1450.0
172.5°	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5	1461.9	1460.3	1460.3
175°	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0	1472.5	1470.9	1470.9
177.5°	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8	1477.5	1476.3	1476.3
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1641.4	1639.8	1632.2	1623.5	1612.0	1604.4	1598.4	1595.2	1585.4	1573.4	1565.2
5°	1742.8	1722.4	1700.7	1674.1	1649.6	1624.4	1608.8	1590.4	1567.9	1542.8	1525.1
7.5°	1851.5	1811.4	1768.3	1723.8	1679.8	1640.4	1605.5	1575.7	1539.9	1503.8	1478.5
10°	1934.8	1876.2	1815.7	1753.7	1697.2	1644.2	1603.3	1563.2	1520.3	1478.8	1447.5
12.5°	2010.4	1933.4	1863.6	1787.5	1715.2	1651.8	1593.0	1545.8	1494.2	1449.9	1414.3
15°	2106.2	2027.3	1942.9	1827.2	1731.3	1651.0	1579.5	1517.6	1455.0	1400.5	1365.8
17.5°	2195.8	2077.0	1963.6	1867.1	1742.4	1642.1	1554.9	1480.8	1412.1	1354.4	1311.7
20°	2232.8	2117.8	1994.6	1871.5	1749.0	1636.7	1535.3	1453.6	1382.2	1316.8	1277.4
22.5°	2255.1	2124.9	1995.2	1862.8	1732.6	1616.0	1515.7	1425.9	1348.4	1286.3	1237.6
25°	2281.1	2126.0	1983.1	1852.4	1719.7	1593.1	1474.0	1378.8	1295.1	1229.0	1177.3
27.5°	2298.3	2115.8	1946.9	1801.6	1667.0	1541.0	1431.8	1330.8	1245.9	1176.1	1120.6
30°	2301.6	2107.6	1919.1	1761.9	1625.1	1509.4	1393.7	1297.1	1207.3	1133.1	1081.4
32.5°	2305.9	2087.5	1881.5	1714.5	1574.5	1459.9	1355.1	1262.8	1170.8	1097.7	1044.9
35°	2288.0	2076.3	1824.5	1632.6	1492.4	1381.5	1286.9	1201.8	1111.3	1040.5	986.8
37.5°	2210.6	2032.1	1765.4	1540.3	1393.7	1291.0	1213.9	1139.8	1056.7	980.4	929.7
40°	2132.8	1988.5	1719.7	1484.2	1331.1	1225.6	1156.2	1095.7	1015.4	943.9	889.5
42.5°	2016.8	1929.2	1676.2	1425.4	1260.3	1158.7	1100.1	1043.4	972.9	900.3	849.2
45°	1804.1	1815.7	1587.0	1331.8	1162.3	1060.3	1005.1	965.7	903.1	843.2	790.8
47.5°	1537.3	1645.5	1482.3	1232.0	1059.0	963.2	915.0	880.6	838.4	779.6	731.8
50°	1363.1	1517.6	1398.5	1165.1	994.3	899.0	851.3	823.4	786.7	740.4	694.8
52.5°	1202.5	1368.4	1297.2	1090.5	924.0	836.9	790.4	767.4	738.2	694.7	653.4
55°	980.6	1148.7	1132.4	977.9	818.7	740.4	705.0	679.2	659.4	626.8	594.1
57.5°	793.2	952.6	961.0	852.7	725.9	648.5	618.1	598.6	585.7	561.0	530.8
60°	675.1	821.4	850.0	768.3	659.4	591.4	561.4	545.8	535.6	515.8	492.7
62.5°	577.1	701.6	734.0	675.2	595.7	532.0	508.6	493.5	486.6	469.6	449.2
65°	441.7	545.1	576.4	543.7	502.2	451.2	432.1	419.2	413.1	403.6	388.6
67.5°	332.1	407.5	441.8	418.8	403.8	371.6	359.5	352.5	347.1	340.5	328.0
70°	266.8	322.6	358.0	351.8	339.6	322.6	313.7	309.0	303.5	298.1	287.2
72.5°	214.5	252.9	286.1	289.2	279.2	275.8	268.0	266.0	262.7	256.2	250.2
75°	142.2	168.8	191.9	200.8	204.8	208.2	204.8	204.2	203.5	198.0	194.6
77.5°	93.2	107.5	122.1	137.2	143.6	148.2	149.3	151.8	150.0	147.1	145.5
80°	71.5	74.9	85.1	98.0	108.2	112.3	115.0	116.4	115.7	115.0	112.3
82.5°	51.9	54.7	59.5	68.6	77.2	84.0	85.6	85.3	86.8	87.2	85.1
85°	27.9	28.6	29.9	31.3	36.1	43.6	45.6	47.0	48.3	48.3	44.2
87.5°	12.9	11.7	12.1	11.6	12.7	12.7	15.4	17.7	18.7	17.1	17.6
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1	29.9	31.6	33.4
95°	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6	70.4	72.2	74.0
97.5°	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8	123.1	124.5	125.8
100°	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0	159.6	161.1	162.7
102.5°	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8	200.8	201.7	202.6
105°	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4	261.9	262.5	263.0
107.5°	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0	333.3	333.6	333.9
110°	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6	378.1	378.6	379.2





TEST NUMBER: P332355

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1	424.4	424.7	425.0
115°	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8	494.6	495.3	496.1
117.5°	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0	564.5	565.0	565.5
120°	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7	609.2	610.8	612.3
122.5°	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2	654.3	655.5	656.6
125°	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7	723.5	724.2	725.0
127.5°	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8	788.5	790.1	791.8
130°	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6	831.6	833.7	835.8
132.5°	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3	874.4	876.5	878.5
135°	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6	939.2	940.7	942.3
137.5°	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1	999.3	1000.6	1001.9
140°	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9	1041.2	1042.5	1043.8
142.5°	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0	1079.3	1080.6	1081.9
145°	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5	1138.0	1138.5	1139.0
147.5°	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5	1190.5	1191.4	1192.3
150°	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8	1226.3	1226.8	1227.3
152.5°	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5	1256.3	1257.0	1257.7
155°	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4	1342.1	1341.8	1341.5
160°	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5	1367.0	1366.5	1366.0
162.5°	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8	1389.1	1388.4	1387.7
165°	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7	1417.9	1417.1	1416.3
167.5°	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7	1440.6	1439.6	1438.6
170°	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7	1453.6	1452.6	1451.6
172.5°	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9	1463.9	1462.8	1461.8
175°	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6	1474.6	1473.5	1472.5
177.5°	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0	1479.2	1478.4	1477.5
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



TEST NUMBER: P332355

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1562.5	1555.4	1550.5	1539.6	1532.6	1524.9	1517.3	1522.2	1521.7	1521.1	1521.1
5°	1510.1	1494.4	1480.2	1461.8	1450.2	1435.9	1425.0	1423.7	1426.4	1416.9	1411.4
7.5°	1458.1	1436.7	1416.5	1396.2	1374.7	1357.5	1346.8	1341.7	1334.8	1328.9	1322.8
10°	1421.6	1396.5	1376.7	1351.5	1328.4	1308.0	1295.1	1286.2	1281.4	1276.7	1267.8
12.5°	1384.1	1359.4	1334.3	1305.8	1283.8	1260.1	1250.4	1240.5	1231.4	1226.0	1213.9
15°	1329.1	1297.1	1270.6	1240.6	1216.1	1193.0	1179.4	1159.6	1156.9	1150.1	1137.9
17.5°	1274.0	1239.2	1202.6	1180.5	1152.8	1128.7	1108.0	1101.4	1081.9	1074.6	1063.9
20°	1230.4	1198.4	1170.5	1141.3	1101.1	1078.6	1062.3	1053.5	1037.8	1028.3	1021.5
22.5°	1192.8	1160.3	1128.1	1093.9	1060.8	1035.6	1023.7	1009.9	1001.3	988.0	980.6
25°	1139.2	1103.8	1065.0	1028.3	1004.5	985.4	966.4	954.1	941.9	935.7	922.1
27.5°	1076.9	1039.9	1003.6	975.7	946.5	927.7	910.4	899.5	884.8	874.5	867.0
30°	1042.6	999.0	967.7	942.5	905.1	887.4	874.5	860.9	850.0	839.1	831.6
32.5°	1002.8	963.1	933.4	902.3	873.5	854.2	837.5	825.5	816.2	805.9	798.4
35°	940.5	907.2	876.5	845.2	824.1	804.4	784.7	774.4	765.6	756.1	749.3
37.5°	884.1	853.0	823.9	794.2	768.0	752.0	736.1	728.3	716.3	709.9	703.0
40°	849.3	818.7	787.4	758.8	731.6	719.3	705.0	693.5	682.6	677.8	670.3
42.5°	811.2	780.6	754.2	723.4	701.1	684.5	671.3	658.6	650.5	643.5	639.3
45°	754.7	727.5	701.6	671.0	649.9	635.6	620.6	609.1	601.6	596.8	589.3
47.5°	699.9	672.6	646.4	619.7	599.3	582.9	568.0	559.9	550.0	544.2	539.1
50°	660.1	635.6	607.7	583.2	562.8	546.5	534.2	524.0	515.2	507.7	504.3
52.5°	623.6	597.5	573.4	550.6	529.0	510.5	499.4	488.6	482.0	473.4	469.4
55°	563.5	538.3	517.9	495.4	474.3	458.7	445.1	435.5	428.7	419.2	413.8
57.5°	507.0	484.4	460.0	440.6	418.8	405.6	394.3	381.4	373.1	365.6	360.3
60°	468.9	443.0	421.9	403.6	384.5	367.5	357.3	347.1	338.2	330.7	326.0
62.5°	429.1	406.6	386.5	366.5	349.1	334.3	322.4	313.9	306.1	301.3	296.6
65°	368.2	350.5	330.1	313.7	297.4	286.5	277.0	269.5	264.0	260.6	256.6
67.5°	312.1	294.9	277.1	261.1	250.2	241.9	235.6	229.2	226.5	222.1	219.4
70°	275.6	257.9	242.3	230.0	219.1	213.0	208.9	204.2	201.4	196.0	193.3
72.5°	235.9	223.1	211.8	201.7	193.0	187.4	182.2	176.4	172.0	166.0	163.3
75°	185.8	174.2	165.4	158.6	153.1	145.6	138.1	132.0	130.0	127.9	127.3
77.5°	137.6	130.3	123.9	118.1	111.3	105.9	104.3	102.9	102.5	101.4	101.4
80°	108.2	101.4	96.6	89.8	85.7	85.7	85.7	84.4	85.1	85.1	85.1
82.5°	80.4	74.2	71.6	69.1	68.3	68.9	68.9	69.1	68.7	69.8	69.3
85°	41.5	42.2	43.6	42.9	43.6	43.6	44.9	44.2	44.9	43.6	44.9
87.5°	17.5	19.8	21.0	22.2	23.4	23.5	24.3	24.5	25.3	25.5	25.6
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0	31.0	32.0	32.8
92.5°	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3	47.1	47.9	48.2
95°	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0	89.1	90.1	90.6
97.5°	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9	138.1	139.3	139.8
100°	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3	173.1	173.9	174.5
102.5°	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2	214.0	214.8	215.1
105°	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2	274.2	274.2	274.5
107.5°	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2	341.1	341.9	342.1
110°	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3	385.4	386.4	386.6



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CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4	429.7	430.9	431.5
115°	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5	495.7	496.0	496.0
117.5°	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2	563.1	563.1	562.7
120°	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3	608.1	607.8	607.4
122.5°	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0	653.3	652.6	651.9
125°	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8	720.8	719.7	718.7
127.5°	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8	787.4	785.9	784.6
130°	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3	832.3	831.3	829.8
132.5°	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6	875.4	874.1	872.8
135°	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4	940.3	939.3	938.5
137.5°	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7	1003.6	1002.5	1001.5
140°	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1044.8
142.5°	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4	1085.1	1084.9	1084.0
145°	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8	1142.5	1142.3	1141.6
147.5°	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4	1230.4	1230.4	1229.7
152.5°	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0	1261.4	1261.8	1261.4
155°	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7	1306.7	1307.8	1307.4
157.5°	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1	1345.2	1346.3	1346.1
160°	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8	1369.1	1370.4	1370.5
162.5°	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1	1391.4	1392.7	1392.5
165°	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3	1419.8	1421.4	1421.2
167.5°	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3
170°	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3
172.5°	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5	1465.1	1466.7	1466.6
175°	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0	1475.6	1477.1	1477.0
177.5°	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8	1480.0	1481.2	1481.1
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



TEST NUMBER: P332355

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1514.6	1514.0	1514.6	1512.4	1514.6	1514.0	1514.6	1521.1	1521.1	1521.7	1522.2
5°	1409.4	1408.7	1406.7	1400.5	1406.7	1408.7	1409.4	1411.4	1416.9	1426.4	1423.7
7.5°	1317.5	1316.6	1310.6	1310.7	1310.6	1316.6	1317.5	1322.8	1328.9	1334.8	1341.7
10°	1263.1	1263.7	1255.6	1250.8	1255.6	1263.7	1263.1	1267.8	1276.7	1281.4	1286.2
12.5°	1210.3	1207.1	1200.6	1195.3	1200.6	1207.1	1210.3	1213.9	1226.0	1231.4	1240.5
15°	1140.6	1133.8	1117.4	1118.8	1117.4	1133.8	1140.6	1137.9	1150.1	1156.9	1159.6
17.5°	1058.5	1053.5	1053.2	1043.7	1053.2	1053.5	1058.5	1063.9	1074.6	1081.9	1101.4
20°	1010.6	1007.2	1008.5	999.0	1008.5	1007.2	1010.6	1021.5	1028.3	1037.8	1053.5
22.5°	973.0	969.6	963.9	960.9	963.9	969.6	973.0	980.6	988.0	1001.3	1009.9
25°	918.0	912.6	907.2	910.6	907.2	912.6	918.0	922.1	935.7	941.9	954.1
27.5°	863.1	859.0	853.5	852.8	853.5	859.0	863.1	867.0	874.5	884.8	899.5
30°	828.2	824.1	821.4	818.0	821.4	824.1	828.2	831.6	839.1	850.0	860.9
32.5°	792.8	792.0	787.1	786.4	787.1	792.0	792.8	798.4	805.9	816.2	825.5
35°	746.5	742.5	741.1	741.8	741.1	742.5	746.5	749.3	756.1	765.6	774.4
37.5°	702.6	697.1	694.7	692.2	694.7	697.1	702.6	703.0	709.9	716.3	728.3
40°	671.0	665.6	664.2	662.8	664.2	665.6	671.0	670.3	677.8	682.6	693.5
42.5°	635.6	633.4	632.6	630.2	632.6	633.4	635.6	639.3	643.5	650.5	658.6
45°	587.3	586.6	582.5	583.9	582.5	586.6	587.3	589.3	596.8	601.6	609.1
47.5°	536.4	533.4	530.5	532.4	530.5	533.4	536.4	539.1	544.2	550.0	559.9
50°	501.6	500.2	494.1	495.4	494.1	500.2	501.6	504.3	507.7	515.2	524.0
52.5°	466.7	461.5	459.2	458.4	459.2	461.5	466.7	469.4	473.4	482.0	488.6
55°	409.0	402.9	400.2	398.8	400.2	402.9	409.0	413.8	419.2	428.7	435.5
57.5°	352.4	350.7	348.6	350.1	348.6	350.7	352.4	360.3	365.6	373.1	381.4
60°	319.2	319.2	319.2	318.5	319.2	319.2	319.2	326.0	330.7	338.2	347.1
62.5°	293.6	291.9	291.4	292.4	291.4	291.9	293.6	296.6	301.3	306.1	313.9
65°	254.5	253.8	251.1	250.4	251.1	253.8	254.5	256.6	260.6	264.0	269.5
67.5°	217.6	215.2	214.4	213.4	214.4	215.2	217.6	219.4	222.1	226.5	229.2
70°	189.9	188.5	184.4	185.1	184.4	188.5	189.9	193.3	196.0	201.4	204.2
72.5°	159.9	158.6	157.7	156.8	157.7	158.6	159.9	163.3	166.0	172.0	176.4
75°	126.6	125.9	125.2	127.9	125.2	125.9	126.6	127.3	127.9	130.0	132.0
77.5°	101.4	101.4	101.8	100.7	101.8	101.4	101.4	101.4	101.4	102.5	102.9
80°	85.1	85.1	84.4	84.4	84.4	85.1	85.1	85.1	85.1	85.1	84.4
82.5°	68.2	68.7	69.1	68.1	69.1	68.7	68.2	69.3	69.8	68.7	69.1
85°	44.9	44.2	45.6	44.9	45.6	44.2	44.9	44.9	43.6	44.9	44.2
87.5°	26.8	25.8	25.9	26.6	25.9	25.8	26.8	25.6	25.5	25.3	24.5
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0
92.5°	47.9	47.6	47.2	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3
95°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0
97.5°	139.7	139.6	139.5	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9
100°	175.1	175.6	176.1	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3
102.5°	215.0	214.9	214.8	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2
105°	275.0	275.5	276.0	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2
107.5°	341.8	341.5	341.2	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2
110°	386.1	385.6	385.1	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	431.4	431.3	431.2	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4
115°	495.7	495.5	495.2	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5
117.5°	562.0	561.2	560.5	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2
120°	606.9	606.4	605.9	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3
122.5°	651.2	650.5	649.7	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0
125°	717.7	716.6	715.6	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8
127.5°	783.4	782.2	781.0	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8
130°	828.0	826.2	824.4	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3
132.5°	871.4	870.0	868.6	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6
135°	938.0	937.5	937.0	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4
137.5°	1000.5	999.6	998.6	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7
140°	1043.0	1041.2	1039.4	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3
142.5°	1082.6	1081.2	1079.9	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4
145°	1140.6	1139.5	1138.5	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8
147.5°	1194.6	1193.1	1191.5	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0
150°	1228.1	1226.6	1225.0	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4
152.5°	1260.0	1258.7	1257.3	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0
155°	1305.6	1303.8	1302.0	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7
157.5°	1344.7	1343.2	1341.8	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1
160°	1369.5	1368.4	1367.4	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8
162.5°	1390.8	1389.2	1387.5	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1
165°	1419.4	1417.6	1415.8	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3
167.5°	1442.7	1441.1	1439.5	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1
170°	1455.5	1453.6	1451.8	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6
172.5°	1464.7	1462.9	1461.1	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5
175°	1475.2	1473.4	1471.6	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0
177.5°	1479.7	1478.2	1476.8	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1517.3	1524.9	1532.6	1539.6	1550.5	1555.4	1562.5	1565.2	1573.4	1585.4	1595.2
5°	1425.0	1435.9	1450.2	1461.8	1480.2	1494.4	1510.1	1525.1	1542.8	1567.9	1590.4
7.5°	1346.8	1357.5	1374.7	1396.2	1416.5	1436.7	1458.1	1478.5	1503.8	1539.9	1575.7
10°	1295.1	1308.0	1328.4	1351.5	1376.7	1396.5	1421.6	1447.5	1478.8	1520.3	1563.2
12.5°	1250.4	1260.1	1283.8	1305.8	1334.3	1359.4	1384.1	1414.3	1449.9	1494.2	1545.8
15°	1179.4	1193.0	1216.1	1240.6	1270.6	1297.1	1329.1	1365.8	1400.5	1455.0	1517.6
17.5°	1108.0	1128.7	1152.8	1180.5	1202.6	1239.2	1274.0	1311.7	1354.4	1412.1	1480.8
20°	1062.3	1078.6	1101.1	1141.3	1170.5	1198.4	1230.4	1277.4	1316.8	1382.2	1453.6
22.5°	1023.7	1035.6	1060.8	1093.9	1128.1	1160.3	1192.8	1237.6	1286.3	1348.4	1425.9
25°	966.4	985.4	1004.5	1028.3	1065.0	1103.8	1139.2	1177.3	1229.0	1295.1	1378.8
27.5°	910.4	927.7	946.5	975.7	1003.6	1039.9	1076.9	1120.6	1176.1	1245.9	1330.8
30°	874.5	887.4	905.1	942.5	967.7	999.0	1042.6	1081.4	1133.1	1207.3	1297.1
32.5°	837.5	854.2	873.5	902.3	933.4	963.1	1002.8	1044.9	1097.7	1170.8	1262.8
35°	784.7	804.4	824.1	845.2	876.5	907.2	940.5	986.8	1040.5	1111.3	1201.8
37.5°	736.1	752.0	768.0	794.2	823.9	853.0	884.1	929.7	980.4	1056.7	1139.8
40°	705.0	719.3	731.6	758.8	787.4	818.7	849.3	889.5	943.9	1015.4	1095.7
42.5°	671.3	684.5	701.1	723.4	754.2	780.6	811.2	849.2	900.3	972.9	1043.4
45°	620.6	635.6	649.9	671.0	701.6	727.5	754.7	790.8	843.2	903.1	965.7
47.5°	568.0	582.9	599.3	619.7	646.4	672.6	699.9	731.8	779.6	838.4	880.6
50°	534.2	546.5	562.8	583.2	607.7	635.6	660.1	694.8	740.4	786.7	823.4
52.5°	499.4	510.5	529.0	550.6	573.4	597.5	623.6	653.4	694.7	738.2	767.4
55°	445.1	458.7	474.3	495.4	517.9	538.3	563.5	594.1	626.8	659.4	679.2
57.5°	394.3	405.6	418.8	440.6	460.0	484.4	507.0	530.8	561.0	585.7	598.6
60°	357.3	367.5	384.5	403.6	421.9	443.0	468.9	492.7	515.8	535.6	545.8
62.5°	322.4	334.3	349.1	366.5	386.5	406.6	429.1	449.2	469.6	486.6	493.5
65°	277.0	286.5	297.4	313.7	330.1	350.5	368.2	388.6	403.6	413.1	419.2
67.5°	235.6	241.9	250.2	261.1	277.1	294.9	312.1	328.0	340.5	347.1	352.5
70°	208.9	213.0	219.1	230.0	242.3	257.9	275.6	287.2	298.1	303.5	309.0
72.5°	182.2	187.4	193.0	201.7	211.8	223.1	235.9	250.2	256.2	262.7	266.0
75°	138.1	145.6	153.1	158.6	165.4	174.2	185.8	194.6	198.0	203.5	204.2
77.5°	104.3	105.9	111.3	118.1	123.9	130.3	137.6	145.5	147.1	150.0	151.8
80°	85.7	85.7	85.7	89.8	96.6	101.4	108.2	112.3	115.0	115.7	116.4
82.5°	68.9	68.9	68.3	69.1	71.6	74.2	80.4	85.1	87.2	86.8	85.3
85°	44.9	43.6	43.6	42.9	43.6	42.2	41.5	44.2	48.3	48.3	47.0
87.5°	24.3	23.5	23.4	22.2	21.0	19.8	17.5	17.6	17.1	18.7	17.7
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	45.4	44.6	42.7	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1
95°	87.0	86.0	83.9	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6
97.5°	135.7	134.5	133.0	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8
100°	171.6	170.8	169.5	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0
102.5°	212.5	211.7	210.0	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8
105°	274.2	274.2	271.9	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4
107.5°	339.4	338.6	337.6	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0
110°	383.3	382.3	381.7	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.2	425.9	425.8	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1
115°	495.2	495.0	495.5	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8
117.5°	563.2	563.3	564.0	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0
120°	608.6	608.8	610.1	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7
122.5°	654.6	655.3	656.0	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2
125°	722.8	723.9	724.4	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7
127.5°	790.3	791.7	792.3	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8
130°	834.4	835.4	836.2	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6
132.5°	877.8	879.1	879.6	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3
135°	942.4	943.4	943.7	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6
137.5°	1005.8	1006.9	1006.2	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1
140°	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9
142.5°	1085.6	1085.9	1085.4	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0
145°	1143.0	1143.3	1142.5	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5
147.5°	1197.0	1197.0	1196.2	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5
150°	1230.4	1230.4	1229.9	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8
152.5°	1260.6	1260.2	1259.9	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5
155°	1304.7	1303.6	1303.4	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1343.1	1342.0	1341.8	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4
160°	1366.5	1365.2	1365.2	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5
162.5°	1388.8	1387.5	1387.3	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8
165°	1416.7	1415.2	1415.2	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7
167.5°	1439.5	1437.9	1437.7	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7
170°	1451.8	1450.0	1450.0	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7
172.5°	1461.9	1460.3	1460.3	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9
175°	1472.5	1470.9	1470.9	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6
177.5°	1477.5	1476.3	1476.3	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1598.4	1604.4	1612.0	1623.5	1632.2	1639.8	1641.4	1643.6	1649.1	1658.3	1665.4
5°	1608.8	1624.4	1649.6	1674.1	1700.7	1722.4	1742.8	1757.1	1770.7	1799.3	1822.5
7.5°	1605.5	1640.4	1679.8	1723.8	1768.3	1811.4	1851.5	1887.3	1922.9	1964.6	2012.1
10°	1603.3	1644.2	1697.2	1753.7	1815.7	1876.2	1934.8	1980.4	2033.4	2081.1	2141.6
12.5°	1593.0	1651.8	1715.2	1787.5	1863.6	1933.4	2010.4	2073.4	2134.2	2203.0	2273.4
15°	1579.5	1651.0	1731.3	1827.2	1942.9	2027.3	2106.2	2215.8	2290.7	2365.5	2466.3
17.5°	1554.9	1642.1	1742.4	1867.1	1963.6	2077.0	2195.8	2282.4	2383.2	2488.7	2579.9
20°	1535.3	1636.7	1749.0	1871.5	1994.6	2117.8	2232.8	2336.3	2440.4	2562.2	2637.1
22.5°	1515.7	1616.0	1732.6	1862.8	1995.2	2124.9	2255.1	2376.6	2493.7	2616.6	2712.2
25°	1474.0	1593.1	1719.7	1852.4	1983.1	2126.0	2281.1	2416.6	2561.5	2688.1	2778.6
27.5°	1431.8	1541.0	1667.0	1801.6	1946.9	2115.8	2298.3	2452.2	2597.5	2688.1	2716.6
30°	1393.7	1509.4	1625.1	1761.9	1919.1	2107.6	2301.6	2477.8	2596.9	2636.4	2607.1
32.5°	1355.1	1459.9	1574.5	1714.5	1881.5	2087.5	2305.9	2462.6	2534.3	2504.1	2385.0
35°	1286.9	1381.5	1492.4	1632.6	1824.5	2076.3	2288.0	2394.1	2376.4	2206.3	1981.7
37.5°	1213.9	1291.0	1393.7	1540.3	1765.4	2032.1	2210.6	2226.3	2073.2	1812.0	1552.6
40°	1156.2	1225.6	1331.1	1484.2	1719.7	1988.5	2132.8	2069.5	1832.0	1541.4	1325.0
42.5°	1100.1	1158.7	1260.3	1425.4	1676.2	1929.2	2016.8	1879.0	1605.0	1330.2	1133.4
45°	1005.1	1060.3	1162.3	1331.8	1587.0	1815.7	1804.1	1564.5	1290.3	1069.1	905.8
47.5°	915.0	963.2	1059.0	1232.0	1482.3	1645.5	1537.3	1282.4	1049.8	872.3	755.8
50°	851.3	899.0	994.3	1165.1	1398.5	1517.6	1363.1	1117.4	904.4	757.4	664.9
52.5°	790.4	836.9	924.0	1090.5	1297.2	1368.4	1202.5	974.8	797.2	670.3	590.8
55°	705.0	740.4	818.7	977.9	1132.4	1148.7	980.6	790.1	643.8	555.3	500.9
57.5°	618.1	648.5	725.9	852.7	961.0	952.6	793.2	628.4	529.9	464.1	424.7
60°	561.4	591.4	659.4	768.3	850.0	821.4	675.1	542.4	458.0	409.7	378.4
62.5°	508.6	532.0	595.7	675.2	734.0	701.6	577.1	467.3	400.3	359.6	334.8
65°	432.1	451.2	502.2	543.7	576.4	545.1	441.7	365.4	317.1	288.5	271.5
67.5°	359.5	371.6	403.8	418.8	441.8	407.5	332.1	281.1	253.6	229.5	217.6
70°	313.7	322.6	339.6	351.8	358.0	322.6	266.8	229.3	206.2	189.2	181.7
72.5°	268.0	275.8	279.2	289.2	286.1	252.9	214.5	184.7	168.1	156.5	146.9
75°	204.8	208.2	204.8	200.8	191.9	168.8	142.2	127.3	115.0	109.6	106.2
77.5°	149.3	148.2	143.6	137.2	122.1	107.5	93.2	88.2	82.9	80.0	78.8
80°	115.0	112.3	108.2	98.0	85.1	74.9	71.5	68.1	66.0	62.6	61.9
82.5°	85.6	84.0	77.2	68.6	59.5	54.7	51.9	50.6	48.6	46.8	46.7
85°	45.6	43.6	36.1	31.3	29.9	28.6	27.9	27.9	25.2	24.5	24.5
87.5°	15.4	12.7	12.7	11.6	12.1	11.7	12.9	12.5	12.7	13.4	12.5
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0
92.5°	29.9	31.6	33.4	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3
95°	70.4	72.2	74.0	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0
97.5°	123.1	124.5	125.8	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9
100°	159.6	161.1	162.7	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3
102.5°	200.8	201.7	202.6	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2
105°	261.9	262.5	263.0	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2
107.5°	333.3	333.6	333.9	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2
110°	378.1	378.6	379.2	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.4	424.7	425.0	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4
115°	494.6	495.3	496.1	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5
117.5°	564.5	565.0	565.5	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2
120°	609.2	610.8	612.3	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3
122.5°	654.3	655.5	656.6	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0
125°	723.5	724.2	725.0	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8
127.5°	788.5	790.1	791.8	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8
130°	831.6	833.7	835.8	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3
132.5°	874.4	876.5	878.5	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6
135°	939.2	940.7	942.3	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4
137.5°	999.3	1000.6	1001.9	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7
140°	1041.2	1042.5	1043.8	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3
142.5°	1079.3	1080.6	1081.9	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4
145°	1138.0	1138.5	1139.0	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8
147.5°	1190.5	1191.4	1192.3	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0
150°	1226.3	1226.8	1227.3	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4
152.5°	1256.3	1257.0	1257.7	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0
155°	1302.5	1302.5	1302.5	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7
157.5°	1342.1	1341.8	1341.5	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1
160°	1367.0	1366.5	1366.0	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8
162.5°	1389.1	1388.4	1387.7	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1
165°	1417.9	1417.1	1416.3	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3
167.5°	1440.6	1439.6	1438.6	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1
170°	1453.6	1452.6	1451.6	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6
172.5°	1463.9	1462.8	1461.8	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5
175°	1474.6	1473.5	1472.5	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0
177.5°	1479.2	1478.4	1477.5	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1676.8	1676.8	1679.0	1687.2	1688.3	1695.3	1693.2
5°	1842.9	1855.8	1860.6	1881.0	1893.2	1898.7	1887.8
7.5°	2046.0	2082.4	2099.7	2121.1	2140.0	2145.7	2130.9
10°	2194.0	2232.1	2264.1	2283.9	2302.2	2314.5	2330.1
12.5°	2337.2	2384.0	2414.4	2442.3	2461.2	2476.7	2479.3
15°	2492.8	2563.6	2617.3	2656.8	2676.5	2686.7	2682.7
17.5°	2649.7	2715.3	2753.6	2793.9	2821.2	2822.6	2823.4
20°	2738.5	2802.4	2846.7	2876.6	2907.2	2905.9	2912.7
22.5°	2797.8	2848.2	2882.1	2903.8	2914.3	2909.1	2910.5
25°	2825.6	2840.5	2834.4	2799.7	2790.9	2758.9	2764.3
27.5°	2682.4	2611.6	2538.4	2444.2	2369.9	2310.5	2313.5
30°	2488.0	2362.8	2219.9	2100.1	1992.6	1962.7	1898.7
32.5°	2216.4	2028.5	1861.1	1749.5	1657.2	1632.2	1576.4
35°	1755.8	1573.4	1401.2	1297.8	1256.9	1199.8	1199.1
37.5°	1364.7	1204.1	1113.1	1035.5	994.8	960.2	956.8
40°	1148.1	1022.8	954.1	898.3	858.2	832.3	826.2
42.5°	996.7	895.4	831.1	796.5	765.6	752.3	742.3
45°	813.9	745.9	700.9	669.6	655.4	645.1	639.7
47.5°	680.8	635.2	604.6	583.8	572.2	561.4	564.3
50°	608.4	571.0	548.5	528.8	519.9	512.4	513.1
52.5°	550.1	516.5	498.4	484.1	473.1	467.8	465.2
55°	466.8	445.7	427.4	417.2	411.0	403.6	401.5
57.5°	398.2	381.9	366.9	355.4	353.9	346.7	347.6
60°	352.5	338.9	326.7	320.5	315.8	309.6	311.7
62.5°	315.0	303.5	292.4	287.3	282.6	278.1	279.0
65°	257.9	247.0	240.2	237.5	235.5	233.4	231.4
67.5°	205.5	198.9	194.6	188.8	184.6	183.9	181.8
70°	172.9	164.0	156.5	149.0	147.0	146.3	147.0
72.5°	138.6	133.0	130.9	127.3	126.9	125.1	126.3
75°	104.1	102.1	100.7	98.0	98.0	98.0	98.0
77.5°	76.8	75.5	74.7	74.2	73.5	72.5	72.4
80°	59.9	59.2	57.8	57.8	57.2	57.8	57.2
82.5°	45.2	45.1	43.7	43.7	43.0	42.6	43.0
85°	23.1	22.5	23.8	22.5	23.1	21.8	23.1
87.5°	12.7	12.9	12.5	12.7	12.2	13.4	12.4
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	47.1	47.9	48.2	47.9	47.6	47.2	46.9
95°	89.1	90.1	90.6	90.6	90.6	90.6	90.6
97.5°	138.1	139.3	139.8	139.7	139.6	139.5	139.4
100°	173.1	173.9	174.5	175.1	175.6	176.1	176.6
102.5°	214.0	214.8	215.1	215.0	214.9	214.8	214.7
105°	274.2	274.2	274.5	275.0	275.5	276.0	276.5
107.5°	341.1	341.9	342.1	341.8	341.5	341.2	340.9
110°	385.4	386.4	386.6	386.1	385.6	385.1	384.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	429.7	430.9	431.5	431.4	431.3	431.2	431.1
115°	495.7	496.0	496.0	495.7	495.5	495.2	495.0
117.5°	563.1	563.1	562.7	562.0	561.2	560.5	559.8
120°	608.1	607.8	607.4	606.9	606.4	605.9	605.3
122.5°	653.3	652.6	651.9	651.2	650.5	649.7	649.0
125°	720.8	719.7	718.7	717.7	716.6	715.6	714.6
127.5°	787.4	785.9	784.6	783.4	782.2	781.0	779.9
130°	832.3	831.3	829.8	828.0	826.2	824.4	822.6
132.5°	875.4	874.1	872.8	871.4	870.0	868.6	867.2
135°	940.3	939.3	938.5	938.0	937.5	937.0	936.5
137.5°	1003.6	1002.5	1001.5	1000.5	999.6	998.6	997.6
140°	1046.1	1045.8	1044.8	1043.0	1041.2	1039.4	1037.6
142.5°	1085.1	1084.9	1084.0	1082.6	1081.2	1079.9	1078.5
145°	1142.5	1142.3	1141.6	1140.6	1139.5	1138.5	1137.5
147.5°	1197.0	1197.0	1196.2	1194.6	1193.1	1191.5	1190.0
150°	1230.4	1230.4	1229.7	1228.1	1226.6	1225.0	1223.5
152.5°	1261.4	1261.8	1261.4	1260.0	1258.7	1257.3	1256.0
155°	1306.7	1307.8	1307.4	1305.6	1303.8	1302.0	1300.1
157.5°	1345.2	1346.3	1346.1	1344.7	1343.2	1341.8	1340.3
160°	1369.1	1370.4	1370.5	1369.5	1368.4	1367.4	1366.4
162.5°	1391.4	1392.7	1392.5	1390.8	1389.2	1387.5	1385.9
165°	1419.8	1421.4	1421.2	1419.4	1417.6	1415.8	1414.0
167.5°	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9
170°	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0
172.5°	1465.1	1466.7	1466.6	1464.7	1462.9	1461.1	1459.3
175°	1475.6	1477.1	1477.0	1475.2	1473.4	1471.6	1469.8
177.5°	1480.0	1481.2	1481.1	1479.7	1478.2	1476.8	1475.4
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1

(END OF REPORT)