

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: P332081-940

Luminaire Tested: **S123DIP-S1165D1195U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332081-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D1195U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8622.1 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

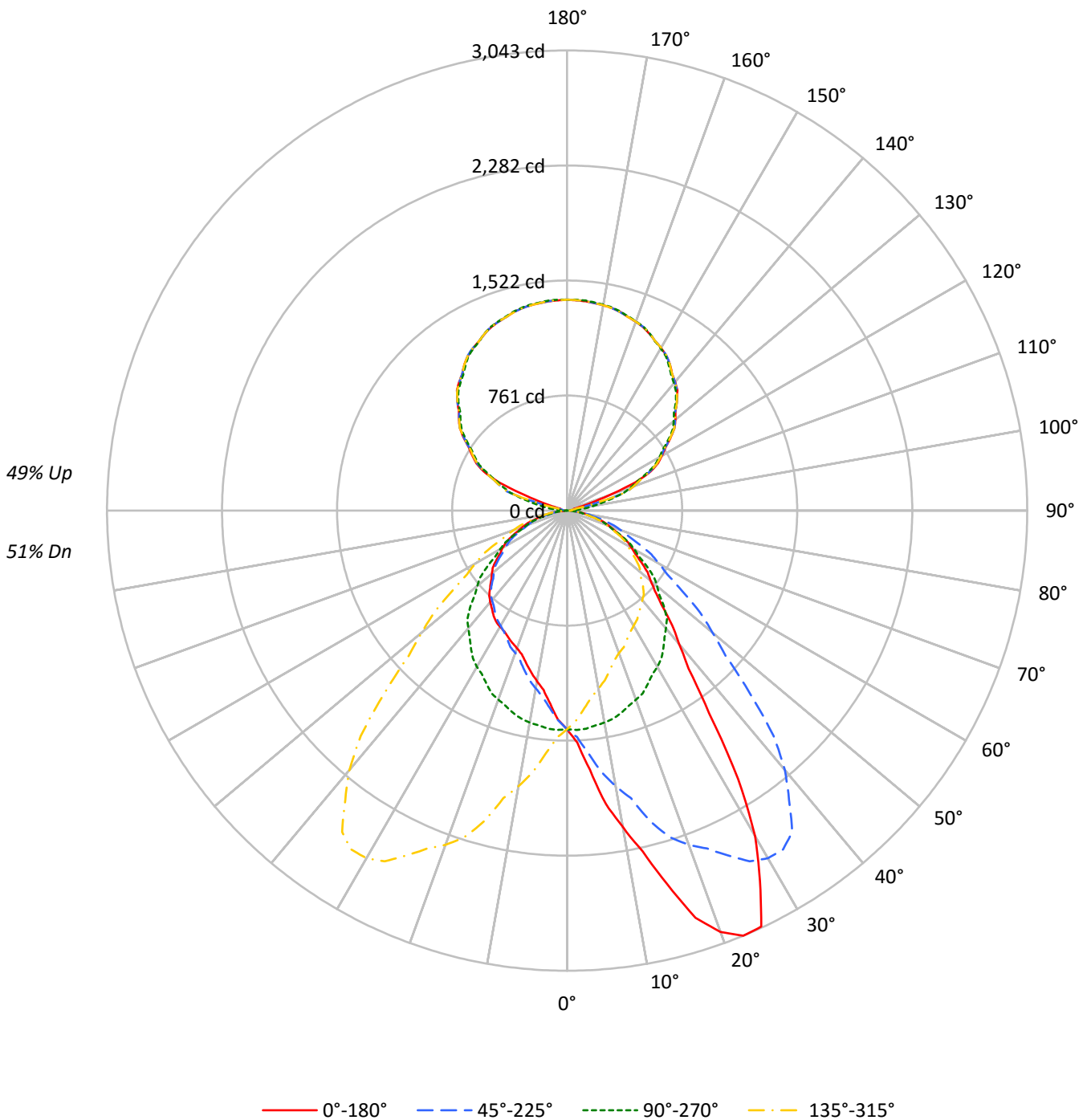
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51	51	51	51	51	51	51														
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	51	49	48	43	43	43	43	43	43	43														
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37	37	37	37	37	37	37														
3	82	73	65	60	75	67	61	56	58	53	49	48	45	42	40	37	35	31	31	31	31	31	31	31														
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27	27	27	27	27	27	27														
5	69	57	49	44	63	53	46	41	46	40	36	39	35	31	32	29	27	24	24	24	24	24	24	24														
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21	21	21	21	21	21	21														
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18	18	18	18	18	18	18														
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	17	17	17	17	17	17	17														
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15	15	15	15	15	15	15														
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	14	14	14	14	14	14	14														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15569	15569	15569	15569
5°	18567	15637	13857	15637
10°	23240	15557	12516	15557
15°	28505	15432	11652	15432
20°	33956	15237	11094	15237
25°	36056	14998	10969	14998
30°	30904	14825	11028	14825
35°	21494	14578	11143	14578
40°	16190	14289	11108	14289
45°	13443	13857	10966	13857
50°	12042	12980	10868	12980
55°	11258	12033	10732	12033
60°	10559	11044	10622	11044
65°	9926	10068	10282	10068
70°	9309	8954	9791	8954
75°	8339	7839	8979	7839
80°	7296	6428	7736	6428
85°	5718	4668	5199	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.7
10°-20°	456.9	5.3
20°-30°	766.8	8.9
30°-40°	868.3	10.1
40°-50°	778.6	9.0
50°-60°	628.3	7.3
60°-70°	437.9	5.1
70°-80°	230.1	2.7
80°-90°	60.2	0.7
90°-100°	50.7	0.6
100°-110°	241.6	2.8
110°-120°	580.4	6.7
120°-130°	739.1	8.6
130°-140°	789.7	9.2
140°-150°	738.4	8.6
150°-160°	595.6	6.9
160°-170°	384.4	4.5
170°-180°	132.5	1.5
0°-30°	1366.2	15.8
0°-40°	2234.5	25.9
0°-60°	3641.5	42.2
0°-90°	4369.7	50.7
90°-120°	872.7	10.1
90°-150°	3139.9	36.4
90°-180°	4252.0	49.3
0°-180°	8622.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1718	1447	1282	1447	1718	178
15°	2558	1385	1046	1385	2558	739
25°	3036	1263	924	1263	3036	1331
35°	1636	1109	848	1109	1636	1063
45°	883	910	720	910	883	699
55°	600	641	572	641	600	538
65°	390	395	404	395	390	388
75°	200	188	216	188	200	215
85°	46	38	42	38	46	56
90°	31	1	31	1	31	16
95°	39	63	39	63	39	33
105°	46	309	46	309	46	104
115°	609	579	609	579	609	563
125°	833	816	833	816	833	744
135°	1027	1016	1027	1016	1027	792
145°	1184	1173	1184	1173	1184	739
155°	1290	1292	1290	1292	1290	595
165°	1359	1362	1359	1362	1359	384
175°	1389	1394	1389	1394	1389	132
180°	1394	1394	1394	1394	1394	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1535.1	1533.9	1531.2	1533.4	1528.9	1522.7	1522.2	1516.5	1500.3	1499.1	1494.7
5°	1718.4	1712.8	1712.1	1711.4	1701.6	1688.3	1663.0	1660.9	1627.3	1610.4	1590.2
7.5°	1955.8	1958.7	1948.6	1939.6	1909.6	1889.8	1862.8	1828.2	1786.8	1744.9	1717.0
10°	2126.3	2149.4	2120.7	2101.0	2082.9	2048.4	2008.6	1958.7	1909.0	1850.8	1806.7
12.5°	2309.1	2320.4	2314.6	2296.2	2267.8	2215.5	2144.7	2090.0	2044.2	1947.3	1908.2
15°	2558.0	2600.8	2573.4	2510.3	2511.7	2461.9	2369.5	2267.8	2213.9	2129.0	2013.5
17.5°	2823.2	2828.5	2816.8	2764.3	2729.3	2660.9	2575.5	2478.1	2368.7	2266.2	2143.5
20°	2964.4	2960.2	2935.7	2908.4	2848.1	2794.9	2701.6	2593.0	2452.8	2352.0	2218.0
22.5°	3043.0	3035.9	3024.3	3001.4	2951.3	2894.0	2810.4	2691.7	2558.2	2419.2	2264.6
25°	3035.9	3045.0	3046.4	3040.1	3022.6	2988.3	2922.4	2827.8	2694.7	2516.0	2354.7
27.5°	2761.2	2774.1	2811.6	2844.7	2881.9	2919.7	2914.6	2867.7	2769.2	2614.9	2417.8
30°	2486.4	2458.4	2527.8	2615.5	2675.0	2780.1	2839.0	2842.5	2787.1	2654.7	2462.6
32.5°	2105.2	2136.1	2166.8	2274.6	2404.8	2522.8	2640.0	2734.3	2745.1	2656.9	2489.0
35°	1635.7	1674.3	1730.3	1786.4	1926.5	2047.1	2253.1	2432.5	2575.5	2594.4	2491.4
37.5°	1318.1	1337.1	1372.6	1428.8	1520.5	1663.5	1822.8	2049.6	2256.7	2410.8	2417.5
40°	1152.2	1157.7	1197.7	1240.5	1314.7	1432.4	1576.1	1776.6	2024.6	2239.8	2329.5
42.5°	1027.7	1040.0	1056.9	1098.1	1157.2	1245.8	1379.4	1545.0	1772.4	2020.0	2195.5
45°	883.1	897.1	907.6	934.9	977.0	1036.5	1129.7	1281.1	1454.2	1709.9	1946.2
47.5°	787.5	788.5	796.4	817.0	845.6	890.3	956.2	1053.5	1212.4	1419.9	1662.3
50°	719.1	730.2	733.1	749.1	771.6	804.5	859.2	941.9	1072.3	1254.5	1477.3
52.5°	670.8	674.2	682.1	693.7	713.3	739.0	786.3	851.0	953.4	1108.7	1313.6
55°	599.9	599.9	607.6	616.7	627.9	651.0	682.6	730.2	808.1	928.5	1098.1
57.5°	534.3	537.8	543.2	546.1	555.6	570.9	597.3	633.4	691.4	784.2	919.1
60°	490.5	496.9	496.1	501.8	510.2	522.1	544.6	574.0	625.8	700.1	813.7
62.5°	452.5	452.0	451.9	458.6	467.0	478.4	492.9	518.4	562.5	628.4	725.1
65°	389.7	388.3	393.2	397.3	400.2	408.6	419.8	442.2	471.6	520.7	595.7
67.5°	333.9	329.8	332.4	333.9	338.7	345.2	355.7	369.6	393.0	432.4	488.9
70°	295.8	292.2	291.5	292.9	297.1	302.0	309.8	323.1	344.8	376.3	417.7
72.5°	256.5	254.1	254.0	257.1	259.0	262.3	267.7	279.9	297.1	320.8	359.4
75°	200.5	200.5	200.5	201.2	203.2	206.1	210.3	216.5	229.9	246.6	272.6
77.5°	150.3	150.1	149.3	149.1	152.2	153.5	154.4	160.3	167.7	179.1	198.0
80°	117.7	114.2	115.7	117.7	119.1	119.8	122.0	123.3	129.7	136.0	149.3
82.5°	87.5	84.5	84.8	88.0	88.3	89.0	91.1	93.1	95.4	101.2	108.3
85°	46.3	46.3	47.0	47.0	47.6	47.0	49.0	49.8	49.8	53.2	57.4
87.5°	23.0	21.8	22.3	22.7	22.1	22.6	22.9	23.3	23.6	24.1	24.0
90°	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.7	25.8	24.9	21.8
92.5°	34.4	34.2	33.9	33.5	33.3	32.5	30.9	29.4	28.0	26.5	24.3
95°	39.3	39.3	39.3	39.3	39.3	38.5	36.9	35.3	33.7	32.1	29.6
97.5°	42.7	42.4	42.3	42.0	41.7	40.8	38.9	37.0	35.2	33.3	49.9
100°	43.5	43.2	43.1	42.8	42.6	41.6	39.7	37.9	36.0	34.2	70.1
102.5°	44.3	44.0	43.5	43.1	42.7	45.3	51.0	56.7	62.4	68.1	107.4
105°	45.6	45.1	44.7	44.2	43.8	63.8	104.6	145.3	186.1	226.9	247.6
107.5°	143.2	173.9	204.6	235.3	266.0	296.3	326.2	356.1	385.9	415.9	412.6
110°	284.9	317.8	350.7	383.7	416.6	436.8	444.4	452.0	459.7	467.3	464.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	488.7	495.7	502.7	509.6	516.6	520.0	519.9	519.7	519.6	519.4	516.9
115°	609.1	608.2	607.3	606.4	605.5	603.9	601.5	599.2	597.0	594.7	592.6
117.5°	676.7	676.5	676.4	676.2	676.0	674.9	673.2	671.3	669.4	667.6	666.6
120°	723.1	723.1	723.1	723.1	723.1	722.2	720.3	718.5	716.7	714.8	714.2
122.5°	768.7	768.6	768.3	768.1	767.9	767.2	766.0	764.6	763.4	762.1	761.2
125°	832.9	832.5	832.1	831.5	831.1	830.6	830.2	829.7	829.3	828.8	827.9
127.5°	894.7	895.2	895.6	896.1	896.5	896.3	895.6	894.9	894.2	893.4	892.3
130°	934.5	935.0	935.4	935.9	936.3	936.1	935.1	934.2	933.4	932.4	931.5
132.5°	970.9	971.6	972.2	972.9	973.5	973.4	972.5	971.5	970.6	969.7	968.9
135°	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5	1028.8	1028.1	1027.3	1026.7	1025.7
137.5°	1079.1	1079.6	1080.0	1080.5	1080.9	1080.6	1079.5	1078.4	1077.3	1076.2	1075.7
140°	1110.6	1111.1	1111.5	1112.0	1112.4	1112.2	1111.3	1110.4	1109.5	1108.5	1107.9
142.5°	1139.6	1140.2	1140.9	1141.6	1142.2	1142.1	1141.4	1140.7	1140.0	1139.2	1138.5
145°	1184.1	1184.1	1184.1	1184.1	1184.1	1183.9	1183.5	1183.0	1182.5	1182.1	1181.6
147.5°	1217.3	1218.3	1219.4	1220.5	1221.6	1221.8	1221.4	1220.9	1220.5	1219.9	1219.5
150°	1242.2	1242.9	1243.6	1244.2	1244.9	1245.0	1244.6	1244.1	1243.7	1243.2	1242.8
152.5°	1262.0	1263.1	1264.2	1265.2	1266.3	1266.4	1265.6	1264.7	1263.9	1263.1	1262.8
155°	1289.9	1291.2	1292.6	1294.0	1295.3	1295.5	1294.3	1293.2	1292.0	1290.8	1290.7
157.5°	1313.2	1315.0	1316.8	1318.7	1320.4	1320.6	1319.2	1317.9	1316.5	1315.1	1315.4
160°	1328.1	1329.7	1331.4	1333.0	1334.6	1334.7	1333.3	1331.9	1330.6	1329.2	1329.5
162.5°	1342.2	1343.6	1345.1	1346.5	1347.9	1347.9	1346.3	1344.8	1343.2	1341.6	1341.8
165°	1359.2	1360.8	1362.4	1364.1	1365.7	1365.6	1363.7	1361.9	1360.0	1358.2	1358.4
167.5°	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9	1377.0	1375.1	1373.3	1371.5	1371.5
170°	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3	1384.5	1382.6	1380.7	1378.9	1378.9
172.5°	1383.0	1385.1	1387.1	1389.1	1391.2	1391.2	1389.4	1387.6	1385.7	1383.8	1383.7
175°	1389.3	1391.2	1392.9	1394.8	1396.6	1396.8	1395.2	1393.6	1392.0	1390.3	1390.1
177.5°	1391.2	1392.9	1394.8	1396.7	1398.5	1398.6	1397.2	1395.7	1394.3	1392.8	1392.6
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1491.3	1486.8	1482.4	1474.5	1467.8	1458.2	1455.5	1452.1	1442.0	1433.1	1426.3
5°	1582.4	1565.6	1541.1	1518.7	1500.5	1476.0	1461.9	1447.2	1426.1	1407.2	1391.8
7.5°	1677.8	1644.7	1606.5	1565.3	1527.0	1490.0	1460.1	1433.4	1404.0	1376.1	1354.4
10°	1753.5	1705.8	1652.5	1595.1	1546.0	1498.3	1458.4	1423.3	1385.5	1352.5	1325.3
12.5°	1839.8	1769.2	1695.7	1625.9	1567.9	1501.7	1453.3	1408.8	1365.9	1326.2	1295.6
15°	1942.0	1852.3	1765.3	1669.4	1581.0	1498.3	1440.9	1384.8	1335.1	1294.4	1255.2
17.5°	2035.1	1933.4	1818.9	1702.1	1595.6	1497.5	1417.0	1353.7	1291.5	1241.7	1202.6
20°	2087.8	1972.1	1842.5	1721.2	1603.5	1494.2	1405.9	1330.2	1262.8	1210.3	1166.2
22.5°	2133.2	1997.9	1863.8	1734.1	1602.9	1485.1	1385.1	1307.2	1234.3	1182.9	1135.9
25°	2180.2	2018.4	1883.8	1731.7	1585.3	1463.3	1351.2	1262.8	1190.0	1129.7	1081.4
27.5°	2220.6	2017.0	1857.3	1693.7	1557.5	1435.3	1315.5	1220.8	1143.4	1078.0	1028.9
30°	2247.5	2019.7	1829.8	1667.9	1530.6	1404.4	1288.1	1192.8	1111.5	1044.9	998.6
32.5°	2264.3	2018.0	1804.6	1632.1	1488.0	1376.4	1258.4	1159.7	1076.2	1010.8	966.2
35°	2274.1	2005.7	1761.1	1557.9	1419.2	1310.5	1211.7	1109.4	1021.8	960.8	910.3
37.5°	2254.5	1979.8	1710.7	1486.4	1334.5	1227.5	1144.4	1057.2	973.4	906.3	862.8
40°	2223.7	1963.0	1671.4	1436.0	1276.2	1173.1	1102.4	1016.9	934.2	870.4	829.7
42.5°	2164.8	1928.8	1628.3	1379.9	1215.7	1112.6	1047.4	976.0	897.8	837.9	797.3
45°	2021.2	1854.3	1563.5	1295.8	1126.2	1019.7	962.2	910.3	839.5	781.4	746.4
47.5°	1821.9	1742.4	1469.9	1207.1	1032.9	930.4	870.7	828.9	777.2	730.2	696.6
50°	1683.4	1650.4	1406.5	1146.6	970.6	870.4	813.0	775.1	738.0	691.0	660.1
52.5°	1523.6	1543.9	1332.6	1083.7	907.3	808.8	754.7	724.6	690.9	652.3	625.4
55°	1298.6	1372.2	1204.7	978.3	813.0	719.1	667.9	641.2	621.6	592.9	569.8
57.5°	1088.0	1181.6	1066.5	869.7	720.3	639.3	590.2	561.2	548.6	533.6	515.4
60°	963.0	1055.4	967.9	796.8	658.1	580.9	537.5	513.0	500.3	489.9	474.5
62.5°	851.3	944.9	871.4	722.8	596.9	525.5	487.6	463.7	453.9	448.4	435.2
65°	698.0	778.6	729.5	607.6	509.5	446.4	412.1	395.3	386.1	384.1	375.7
67.5°	568.1	629.5	593.7	504.0	426.8	372.3	343.1	328.9	321.8	321.1	314.8
70°	482.9	540.3	513.0	431.7	365.2	322.4	297.1	284.5	280.4	279.6	276.2
72.5°	416.7	456.8	435.1	367.2	315.8	277.0	258.4	245.3	240.5	241.5	239.2
75°	308.4	338.5	325.9	278.9	237.6	212.3	196.9	188.5	184.3	186.5	183.6
77.5°	221.9	240.9	229.6	197.1	171.6	153.4	142.0	136.8	133.0	132.9	131.6
80°	167.5	178.7	172.4	152.8	131.8	116.4	107.2	103.7	101.7	100.9	100.2
82.5°	119.3	128.9	121.4	107.9	93.6	84.4	79.2	74.5	73.0	73.5	72.8
85°	60.3	63.8	61.0	52.5	47.0	42.7	39.9	37.8	36.5	37.2	35.8
87.5°	24.5	24.5	22.2	19.4	17.8	15.7	15.2	13.6	13.0	13.5	13.4
90°	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1	3.3	5.6	7.9
92.5°	22.0	19.8	17.5	16.7	17.3	18.0	18.6	19.3	18.6	18.0	17.3
95°	27.0	24.5	22.0	25.4	34.9	44.3	53.8	63.2	53.8	44.3	34.9
97.5°	66.5	83.1	99.7	110.0	114.3	118.5	122.8	127.0	122.8	118.5	114.3
100°	106.0	142.0	177.8	193.5	188.9	184.3	179.7	175.0	179.7	184.3	188.9
102.5°	146.6	185.8	225.1	243.1	239.7	236.4	233.1	229.8	233.1	236.4	239.7
105°	268.3	289.0	309.8	318.9	316.3	313.8	311.3	308.7	311.3	313.8	316.3
107.5°	409.3	406.1	402.8	400.1	398.1	396.1	394.0	392.0	394.0	396.1	398.1
110°	462.2	459.7	457.1	455.0	453.1	451.2	449.4	447.5	449.4	451.2	453.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	514.4	511.8	509.3	507.2	505.6	503.9	502.2	500.6	502.2	503.9	505.6
115°	590.5	588.4	586.4	584.6	583.3	581.8	580.5	579.2	580.5	581.8	583.3
117.5°	665.5	664.4	663.3	662.0	660.3	658.5	656.8	655.1	656.8	658.5	660.3
120°	713.5	712.7	712.1	710.7	708.6	706.6	704.5	702.4	704.5	706.6	708.6
122.5°	760.4	759.5	758.6	757.3	755.5	753.9	752.2	750.5	752.2	753.9	755.5
125°	827.0	826.0	825.1	823.8	821.9	820.0	818.2	816.4	818.2	820.0	821.9
127.5°	891.3	890.1	889.0	887.5	885.7	883.9	882.0	880.2	882.0	883.9	885.7
130°	930.6	929.6	928.7	927.3	925.5	923.6	921.9	920.0	921.9	923.6	925.5
132.5°	968.2	967.5	966.7	965.5	963.6	961.8	959.9	958.1	959.9	961.8	963.6
135°	1024.8	1024.0	1023.0	1021.8	1020.5	1019.0	1017.7	1016.3	1017.7	1019.0	1020.5
137.5°	1075.2	1074.7	1074.2	1073.1	1071.3	1069.5	1067.8	1066.0	1067.8	1069.5	1071.3
140°	1107.1	1106.4	1105.7	1104.7	1103.3	1102.0	1100.5	1099.2	1100.5	1102.0	1103.3
142.5°	1137.8	1137.1	1136.4	1135.4	1134.0	1132.7	1131.2	1129.9	1131.2	1132.7	1134.0
145°	1181.2	1180.7	1180.3	1179.2	1177.6	1176.0	1174.4	1172.8	1174.4	1176.0	1177.6
147.5°	1219.1	1218.6	1218.2	1217.4	1216.3	1215.3	1214.2	1213.2	1214.2	1215.3	1216.3
150°	1242.2	1241.8	1241.4	1240.8	1240.1	1239.4	1238.7	1238.1	1238.7	1239.4	1240.1
152.5°	1262.6	1262.2	1261.9	1261.7	1261.3	1261.1	1260.7	1260.4	1260.7	1261.1	1261.3
155°	1290.4	1290.1	1289.9	1290.0	1290.5	1290.9	1291.5	1291.9	1291.5	1290.9	1290.5
157.5°	1315.5	1315.8	1316.0	1316.2	1316.2	1316.3	1316.3	1316.3	1316.3	1316.3	1316.2
160°	1329.6	1329.9	1330.1	1330.3	1330.6	1330.8	1331.1	1331.2	1331.1	1330.8	1330.6
162.5°	1342.1	1342.3	1342.6	1342.9	1343.5	1344.2	1344.8	1345.3	1344.8	1344.2	1343.5
165°	1358.6	1358.9	1359.1	1359.6	1360.3	1360.9	1361.6	1362.4	1361.6	1360.9	1360.3
167.5°	1371.5	1371.5	1371.5	1371.9	1372.9	1373.8	1374.7	1375.6	1374.7	1373.8	1372.9
170°	1378.9	1378.9	1378.9	1379.4	1380.3	1381.3	1382.2	1383.0	1382.2	1381.3	1380.3
172.5°	1383.5	1383.3	1383.1	1383.6	1384.7	1385.8	1387.0	1388.0	1387.0	1385.8	1384.7
175°	1389.8	1389.6	1389.4	1389.8	1391.0	1392.1	1393.3	1394.5	1393.3	1392.1	1391.0
177.5°	1392.4	1392.2	1392.0	1392.4	1393.4	1394.3	1395.2	1396.2	1395.2	1394.3	1393.4
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1422.4	1418.4	1412.8	1404.4	1397.7	1387.1	1387.1	1388.8	1388.8	1388.2	1387.1
5°	1379.2	1368.7	1356.1	1341.4	1326.0	1310.5	1307.7	1302.1	1297.9	1295.1	1291.6
7.5°	1333.6	1315.0	1296.6	1276.0	1257.2	1241.7	1230.9	1221.9	1216.2	1210.1	1205.5
10°	1302.8	1279.7	1257.9	1236.3	1212.4	1193.5	1181.6	1173.1	1166.9	1161.3	1158.4
12.5°	1266.4	1239.9	1215.9	1195.3	1169.2	1149.8	1138.4	1134.4	1127.0	1115.3	1109.1
15°	1213.1	1188.6	1159.8	1128.3	1115.7	1091.9	1078.5	1072.3	1068.0	1058.9	1056.1
17.5°	1167.5	1135.4	1103.2	1079.7	1056.2	1036.9	1029.5	1021.6	1016.0	1008.6	1006.4
20°	1131.1	1102.4	1072.9	1047.8	1023.1	1002.2	995.9	990.2	984.6	981.1	978.3
22.5°	1094.1	1065.4	1041.0	1017.4	991.2	977.5	970.6	964.5	960.6	958.1	955.4
25°	1042.1	1016.9	989.5	968.5	947.5	938.3	934.2	930.7	927.9	924.3	923.6
27.5°	995.6	968.1	945.9	926.3	911.2	903.7	899.6	897.9	898.5	899.7	900.5
30°	960.8	935.6	917.4	900.5	886.5	879.5	878.8	878.8	881.6	882.3	883.7
32.5°	928.9	908.1	889.9	873.6	863.0	858.2	860.9	860.9	863.1	865.0	867.5
35°	882.3	864.1	850.1	836.1	827.0	829.0	830.5	831.9	835.4	839.5	842.4
37.5°	837.9	822.1	807.4	796.6	792.4	796.1	799.5	802.5	806.5	809.8	812.5
40°	805.9	794.0	780.0	770.2	771.6	773.7	776.5	780.0	783.5	785.6	788.5
42.5°	776.2	763.8	753.1	744.9	746.9	749.6	751.3	753.1	757.2	761.0	762.6
45°	730.9	721.1	711.3	706.4	707.8	709.3	710.6	712.7	716.2	719.1	719.7
47.5°	680.1	673.2	666.6	661.8	664.1	663.5	665.4	669.9	670.9	672.6	676.5
50°	647.6	641.2	633.6	632.1	632.1	632.1	632.8	638.5	638.5	641.2	644.1
52.5°	611.7	607.6	602.7	600.2	599.1	599.1	602.0	604.8	605.9	609.8	612.7
55°	558.6	554.4	550.1	548.0	546.6	548.0	553.7	555.0	558.6	560.6	562.8
57.5°	503.2	500.0	496.6	495.4	495.2	497.0	500.1	504.3	505.2	511.6	514.8
60°	466.7	461.8	459.1	459.1	457.6	464.0	462.5	469.6	470.9	475.2	480.1
62.5°	429.2	422.6	421.5	421.5	423.5	425.3	427.2	430.3	433.9	439.3	443.1
65°	368.6	365.2	370.1	369.3	367.9	372.1	372.1	375.7	379.9	384.8	392.4
67.5°	311.3	309.5	309.9	309.9	312.0	314.4	316.4	319.4	324.5	329.7	334.7
70°	272.6	274.7	271.3	274.0	276.2	276.8	278.2	282.4	288.0	291.5	297.1
72.5°	235.1	234.9	235.3	236.5	238.5	239.8	241.2	246.0	252.2	255.1	259.6
75°	180.8	180.1	182.2	182.2	185.7	187.1	188.5	190.6	196.3	200.5	203.9
77.5°	132.1	132.9	132.4	134.8	133.8	134.1	138.5	140.6	141.2	149.5	151.2
80°	99.5	100.9	101.7	102.3	103.0	101.7	106.6	108.6	108.6	113.5	117.0
82.5°	71.5	72.3	74.2	74.8	75.0	76.4	76.8	78.4	80.1	82.1	86.8
85°	35.8	37.8	38.5	37.8	38.5	37.2	39.2	39.9	40.7	40.7	40.7
87.5°	13.3	14.4	14.4	15.5	15.6	16.8	16.9	16.0	16.1	18.0	16.0
90°	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.7	27.6	28.5	29.2
92.5°	16.7	17.5	19.8	22.0	24.3	26.5	28.0	29.4	30.9	32.5	33.3
95°	25.4	22.0	24.5	27.0	29.6	32.1	33.7	35.3	36.9	38.5	39.3
97.5°	110.0	99.7	83.1	66.5	49.9	33.3	35.2	37.0	38.9	40.8	41.7
100°	193.5	177.8	142.0	106.0	70.1	34.2	36.0	37.9	39.7	41.6	42.6
102.5°	243.1	225.1	185.8	146.6	107.4	68.1	62.4	56.7	51.0	45.3	42.7
105°	318.9	309.8	289.0	268.3	247.6	226.9	186.1	145.3	104.6	63.8	43.8
107.5°	400.1	402.8	406.1	409.3	412.6	415.9	385.9	356.1	326.2	296.3	266.0
110°	455.0	457.1	459.7	462.2	464.7	467.3	459.7	452.0	444.4	436.8	416.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	507.2	509.3	511.8	514.4	516.9	519.4	519.6	519.7	519.9	520.0	516.6
115°	584.6	586.4	588.4	590.5	592.6	594.7	597.0	599.2	601.5	603.9	605.5
117.5°	662.0	663.3	664.4	665.5	666.6	667.6	669.4	671.3	673.2	674.9	676.0
120°	710.7	712.1	712.7	713.5	714.2	714.8	716.7	718.5	720.3	722.2	723.1
122.5°	757.3	758.6	759.5	760.4	761.2	762.1	763.4	764.6	766.0	767.2	767.9
125°	823.8	825.1	826.0	827.0	827.9	828.8	829.3	829.7	830.2	830.6	831.1
127.5°	887.5	889.0	890.1	891.3	892.3	893.4	894.2	894.9	895.6	896.3	896.5
130°	927.3	928.7	929.6	930.6	931.5	932.4	933.4	934.2	935.1	936.1	936.3
132.5°	965.5	966.7	967.5	968.2	968.9	969.7	970.6	971.5	972.5	973.4	973.5
135°	1021.8	1023.0	1024.0	1024.8	1025.7	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5
137.5°	1073.1	1074.2	1074.7	1075.2	1075.7	1076.2	1077.3	1078.4	1079.5	1080.6	1080.9
140°	1104.7	1105.7	1106.4	1107.1	1107.9	1108.5	1109.5	1110.4	1111.3	1112.2	1112.4
142.5°	1135.4	1136.4	1137.1	1137.8	1138.5	1139.2	1140.0	1140.7	1141.4	1142.1	1142.2
145°	1179.2	1180.3	1180.7	1181.2	1181.6	1182.1	1182.5	1183.0	1183.5	1183.9	1184.1
147.5°	1217.4	1218.2	1218.6	1219.1	1219.5	1219.9	1220.5	1220.9	1221.4	1221.8	1221.6
150°	1240.8	1241.4	1241.8	1242.2	1242.8	1243.2	1243.7	1244.1	1244.6	1245.0	1244.9
152.5°	1261.7	1261.9	1262.2	1262.6	1262.8	1263.1	1263.9	1264.7	1265.6	1266.4	1266.3
155°	1290.0	1289.9	1290.1	1290.4	1290.7	1290.8	1292.0	1293.2	1294.3	1295.5	1295.3
157.5°	1316.2	1316.0	1315.8	1315.5	1315.4	1315.1	1316.5	1317.9	1319.2	1320.6	1320.4
160°	1330.3	1330.1	1329.9	1329.6	1329.5	1329.2	1330.6	1331.9	1333.3	1334.7	1334.6
162.5°	1342.9	1342.6	1342.3	1342.1	1341.8	1341.6	1343.2	1344.8	1346.3	1347.9	1347.9
165°	1359.6	1359.1	1358.9	1358.6	1358.4	1358.2	1360.0	1361.9	1363.7	1365.6	1365.7
167.5°	1371.9	1371.5	1371.5	1371.5	1371.5	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9
170°	1379.4	1378.9	1378.9	1378.9	1378.9	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3
172.5°	1383.6	1383.1	1383.3	1383.5	1383.7	1383.8	1385.7	1387.6	1389.4	1391.2	1391.2
175°	1389.8	1389.4	1389.6	1389.8	1390.1	1390.3	1392.0	1393.6	1395.2	1396.8	1396.6
177.5°	1392.4	1392.0	1392.2	1392.4	1392.6	1392.8	1394.3	1395.7	1397.2	1398.6	1398.5
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



TEST NUMBER: P332081-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1383.1	1382.6	1386.5	1383.7	1386.5	1382.6	1383.1	1387.1	1388.2	1388.8	1388.8
5°	1287.4	1289.5	1282.5	1282.5	1282.5	1289.5	1287.4	1291.6	1295.1	1297.9	1302.1
7.5°	1202.2	1199.1	1199.4	1195.6	1199.4	1199.1	1202.2	1205.5	1210.1	1216.2	1221.9
10°	1150.0	1145.8	1144.4	1145.1	1144.4	1145.8	1150.0	1158.4	1161.3	1166.9	1173.1
12.5°	1106.9	1106.0	1096.8	1096.9	1096.8	1106.0	1106.9	1109.1	1115.3	1127.0	1134.4
15°	1056.1	1042.9	1041.4	1045.6	1041.4	1042.9	1056.1	1056.1	1058.9	1068.0	1072.3
17.5°	1005.2	998.3	998.6	996.6	998.6	998.3	1005.2	1006.4	1008.6	1016.0	1021.6
20°	978.3	974.1	973.4	968.5	973.4	974.1	978.3	978.3	981.1	984.6	990.2
22.5°	953.7	952.3	952.7	947.3	952.7	952.3	953.7	955.4	958.1	960.6	964.5
25°	923.0	926.5	923.6	923.6	923.6	926.5	923.0	923.6	924.3	927.9	930.7
27.5°	902.2	902.1	900.7	900.7	900.7	902.1	902.2	900.5	899.7	898.5	897.9
30°	886.5	885.8	887.3	887.3	887.3	885.8	886.5	883.7	882.3	881.6	878.8
32.5°	870.8	871.8	872.1	872.6	872.1	871.8	870.8	867.5	865.0	863.1	860.9
35°	846.6	847.3	849.4	848.0	849.4	847.3	846.6	842.4	839.5	835.4	831.9
37.5°	813.8	817.0	816.3	817.4	816.3	817.0	813.8	812.5	809.8	806.5	802.5
40°	789.1	791.2	790.5	790.5	790.5	791.2	789.1	788.5	785.6	783.5	780.0
42.5°	763.9	765.4	763.6	762.5	763.6	765.4	763.9	762.6	761.0	757.2	753.1
45°	722.6	721.1	723.3	720.4	723.3	721.1	722.6	719.7	719.1	716.2	712.7
47.5°	676.3	677.7	678.2	680.4	678.2	677.7	676.3	676.5	672.6	670.9	669.9
50°	645.4	649.6	649.6	649.0	649.6	649.6	645.4	644.1	641.2	638.5	638.5
52.5°	615.2	617.2	619.9	619.8	619.9	617.2	615.2	612.7	609.8	605.9	604.8
55°	568.4	569.8	571.1	571.9	571.1	569.8	568.4	562.8	560.6	558.6	555.0
57.5°	519.9	519.3	522.6	523.6	522.6	519.3	519.9	514.8	511.6	505.2	504.3
60°	485.6	485.6	491.2	493.4	491.2	485.6	485.6	480.1	475.2	470.9	469.6
62.5°	449.2	451.5	457.1	454.1	457.1	451.5	449.2	443.1	439.3	433.9	430.3
65°	395.9	401.5	400.8	403.7	400.8	401.5	395.9	392.4	384.8	379.9	375.7
67.5°	340.3	343.8	348.8	349.3	348.8	343.8	340.3	334.7	329.7	324.5	319.4
70°	302.7	306.2	309.1	311.1	309.1	306.2	302.7	297.1	291.5	288.0	282.4
72.5°	266.4	268.1	274.8	271.9	274.8	268.1	266.4	259.6	255.1	252.2	246.0
75°	208.8	213.7	217.9	215.9	217.9	213.7	208.8	203.9	200.5	196.3	190.6
77.5°	154.4	159.3	161.3	159.5	161.3	159.3	154.4	151.2	149.5	141.2	140.6
80°	122.0	121.3	125.5	124.8	125.5	121.3	122.0	117.0	113.5	108.6	108.6
82.5°	89.4	88.7	90.7	91.1	90.7	88.7	89.4	86.8	82.1	80.1	78.4
85°	43.4	45.6	42.7	42.1	42.7	45.6	43.4	40.7	40.7	40.7	39.9
87.5°	16.1	16.1	15.7	15.2	15.7	16.1	16.1	16.0	18.0	16.1	16.0
90°	29.7	30.1	30.6	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.7
92.5°	33.5	33.9	34.2	34.4	34.2	33.9	33.5	33.3	32.5	30.9	29.4
95°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	38.5	36.9	35.3
97.5°	42.0	42.3	42.4	42.7	42.4	42.3	42.0	41.7	40.8	38.9	37.0
100°	42.8	43.1	43.2	43.5	43.2	43.1	42.8	42.6	41.6	39.7	37.9
102.5°	43.1	43.5	44.0	44.3	44.0	43.5	43.1	42.7	45.3	51.0	56.7
105°	44.2	44.7	45.1	45.6	45.1	44.7	44.2	43.8	63.8	104.6	145.3
107.5°	235.3	204.6	173.9	143.2	173.9	204.6	235.3	266.0	296.3	326.2	356.1
110°	383.7	350.7	317.8	284.9	317.8	350.7	383.7	416.6	436.8	444.4	452.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	509.6	502.7	495.7	488.7	495.7	502.7	509.6	516.6	520.0	519.9	519.7
115°	606.4	607.3	608.2	609.1	608.2	607.3	606.4	605.5	603.9	601.5	599.2
117.5°	676.2	676.4	676.5	676.7	676.5	676.4	676.2	676.0	674.9	673.2	671.3
120°	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	722.2	720.3	718.5
122.5°	768.1	768.3	768.6	768.7	768.6	768.3	768.1	767.9	767.2	766.0	764.6
125°	831.5	832.1	832.5	832.9	832.5	832.1	831.5	831.1	830.6	830.2	829.7
127.5°	896.1	895.6	895.2	894.7	895.2	895.6	896.1	896.5	896.3	895.6	894.9
130°	935.9	935.4	935.0	934.5	935.0	935.4	935.9	936.3	936.1	935.1	934.2
132.5°	972.9	972.2	971.6	970.9	971.6	972.2	972.9	973.5	973.4	972.5	971.5
135°	1028.8	1028.1	1027.3	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5	1028.8	1028.1
137.5°	1080.5	1080.0	1079.6	1079.1	1079.6	1080.0	1080.5	1080.9	1080.6	1079.5	1078.4
140°	1112.0	1111.5	1111.1	1110.6	1111.1	1111.5	1112.0	1112.4	1112.2	1111.3	1110.4
142.5°	1141.6	1140.9	1140.2	1139.6	1140.2	1140.9	1141.6	1142.2	1142.1	1141.4	1140.7
145°	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1183.9	1183.5	1183.0
147.5°	1220.5	1219.4	1218.3	1217.3	1218.3	1219.4	1220.5	1221.6	1221.8	1221.4	1220.9
150°	1244.2	1243.6	1242.9	1242.2	1242.9	1243.6	1244.2	1244.9	1245.0	1244.6	1244.1
152.5°	1265.2	1264.2	1263.1	1262.0	1263.1	1264.2	1265.2	1266.3	1266.4	1265.6	1264.7
155°	1294.0	1292.6	1291.2	1289.9	1291.2	1292.6	1294.0	1295.3	1295.5	1294.3	1293.2
157.5°	1318.7	1316.8	1315.0	1313.2	1315.0	1316.8	1318.7	1320.4	1320.6	1319.2	1317.9
160°	1333.0	1331.4	1329.7	1328.1	1329.7	1331.4	1333.0	1334.6	1334.7	1333.3	1331.9
162.5°	1346.5	1345.1	1343.6	1342.2	1343.6	1345.1	1346.5	1347.9	1347.9	1346.3	1344.8
165°	1364.1	1362.4	1360.8	1359.2	1360.8	1362.4	1364.1	1365.7	1365.6	1363.7	1361.9
167.5°	1377.0	1375.1	1373.3	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9	1377.0	1375.1
170°	1384.5	1382.6	1380.7	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3	1384.5	1382.6
172.5°	1389.1	1387.1	1385.1	1383.0	1385.1	1387.1	1389.1	1391.2	1391.2	1389.4	1387.6
175°	1394.8	1392.9	1391.2	1389.3	1391.2	1392.9	1394.8	1396.6	1396.8	1395.2	1393.6
177.5°	1396.7	1394.8	1392.9	1391.2	1392.9	1394.8	1396.7	1398.5	1398.6	1397.2	1395.7
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1387.1	1387.1	1397.7	1404.4	1412.8	1418.4	1422.4	1426.3	1433.1	1442.0	1452.1
5°	1307.7	1310.5	1326.0	1341.4	1356.1	1368.7	1379.2	1391.8	1407.2	1426.1	1447.2
7.5°	1230.9	1241.7	1257.2	1276.0	1296.6	1315.0	1333.6	1354.4	1376.1	1404.0	1433.4
10°	1181.6	1193.5	1212.4	1236.3	1257.9	1279.7	1302.8	1325.3	1352.5	1385.5	1423.3
12.5°	1138.4	1149.8	1169.2	1195.3	1215.9	1239.9	1266.4	1295.6	1326.2	1365.9	1408.8
15°	1078.5	1091.9	1115.7	1128.3	1159.8	1188.6	1213.1	1255.2	1294.4	1335.1	1384.8
17.5°	1029.5	1036.9	1056.2	1079.7	1103.2	1135.4	1167.5	1202.6	1241.7	1291.5	1353.7
20°	995.9	1002.2	1023.1	1047.8	1072.9	1102.4	1131.1	1166.2	1210.3	1262.8	1330.2
22.5°	970.6	977.5	991.2	1017.4	1041.0	1065.4	1094.1	1135.9	1182.9	1234.3	1307.2
25°	934.2	938.3	947.5	968.5	989.5	1016.9	1042.1	1081.4	1129.7	1190.0	1262.8
27.5°	899.6	903.7	911.2	926.3	945.9	968.1	995.6	1028.9	1078.0	1143.4	1220.8
30°	878.8	879.5	886.5	900.5	917.4	935.6	960.8	998.6	1044.9	1111.5	1192.8
32.5°	860.9	858.2	863.0	873.6	889.9	908.1	928.9	966.2	1010.8	1076.2	1159.7
35°	830.5	829.0	827.0	836.1	850.1	864.1	882.3	910.3	960.8	1021.8	1109.4
37.5°	799.5	796.1	792.4	796.6	807.4	822.1	837.9	862.8	906.3	973.4	1057.2
40°	776.5	773.7	771.6	770.2	780.0	794.0	805.9	829.7	870.4	934.2	1016.9
42.5°	751.3	749.6	746.9	744.9	753.1	763.8	776.2	797.3	837.9	897.8	976.0
45°	710.6	709.3	707.8	706.4	711.3	721.1	730.9	746.4	781.4	839.5	910.3
47.5°	665.4	663.5	664.1	661.8	666.6	673.2	680.1	696.6	730.2	777.2	828.9
50°	632.8	632.1	632.1	632.1	633.6	641.2	647.6	660.1	691.0	738.0	775.1
52.5°	602.0	599.1	599.1	600.2	602.7	607.6	611.7	625.4	652.3	690.9	724.6
55°	553.7	548.0	546.6	548.0	550.1	554.4	558.6	569.8	592.9	621.6	641.2
57.5°	500.1	497.0	495.2	495.4	496.6	500.0	503.2	515.4	533.6	548.6	561.2
60°	462.5	464.0	457.6	459.1	459.1	461.8	466.7	474.5	489.9	500.3	513.0
62.5°	427.2	425.3	423.5	421.5	421.5	422.6	429.2	435.2	448.4	453.9	463.7
65°	372.1	372.1	367.9	369.3	370.1	365.2	368.6	375.7	384.1	386.1	395.3
67.5°	316.4	314.4	312.0	309.9	309.9	309.5	311.3	314.8	321.1	321.8	328.9
70°	278.2	276.8	276.2	274.0	271.3	274.7	272.6	276.2	279.6	280.4	284.5
72.5°	241.2	239.8	238.5	236.5	235.3	234.9	235.1	239.2	241.5	240.5	245.3
75°	188.5	187.1	185.7	182.2	182.2	180.1	180.8	183.6	186.5	184.3	188.5
77.5°	138.5	134.1	133.8	134.8	132.4	132.9	132.1	131.6	132.9	133.0	136.8
80°	106.6	101.7	103.0	102.3	101.7	100.9	99.5	100.2	100.9	101.7	103.7
82.5°	76.8	76.4	75.0	74.8	74.2	72.3	71.5	72.8	73.5	73.0	74.5
85°	39.2	37.2	38.5	37.8	38.5	37.8	35.8	35.8	37.2	36.5	37.8
87.5°	16.9	16.8	15.6	15.5	14.4	14.4	13.3	13.4	13.5	13.0	13.6
90°	25.8	24.9	21.8	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1
92.5°	28.0	26.5	24.3	22.0	19.8	17.5	16.7	17.3	18.0	18.6	19.3
95°	33.7	32.1	29.6	27.0	24.5	22.0	25.4	34.9	44.3	53.8	63.2
97.5°	35.2	33.3	49.9	66.5	83.1	99.7	110.0	114.3	118.5	122.8	127.0
100°	36.0	34.2	70.1	106.0	142.0	177.8	193.5	188.9	184.3	179.7	175.0
102.5°	62.4	68.1	107.4	146.6	185.8	225.1	243.1	239.7	236.4	233.1	229.8
105°	186.1	226.9	247.6	268.3	289.0	309.8	318.9	316.3	313.8	311.3	308.7
107.5°	385.9	415.9	412.6	409.3	406.1	402.8	400.1	398.1	396.1	394.0	392.0
110°	459.7	467.3	464.7	462.2	459.7	457.1	455.0	453.1	451.2	449.4	447.5



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CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	519.6	519.4	516.9	514.4	511.8	509.3	507.2	505.6	503.9	502.2	500.6
115°	597.0	594.7	592.6	590.5	588.4	586.4	584.6	583.3	581.8	580.5	579.2
117.5°	669.4	667.6	666.6	665.5	664.4	663.3	662.0	660.3	658.5	656.8	655.1
120°	716.7	714.8	714.2	713.5	712.7	712.1	710.7	708.6	706.6	704.5	702.4
122.5°	763.4	762.1	761.2	760.4	759.5	758.6	757.3	755.5	753.9	752.2	750.5
125°	829.3	828.8	827.9	827.0	826.0	825.1	823.8	821.9	820.0	818.2	816.4
127.5°	894.2	893.4	892.3	891.3	890.1	889.0	887.5	885.7	883.9	882.0	880.2
130°	933.4	932.4	931.5	930.6	929.6	928.7	927.3	925.5	923.6	921.9	920.0
132.5°	970.6	969.7	968.9	968.2	967.5	966.7	965.5	963.6	961.8	959.9	958.1
135°	1027.3	1026.7	1025.7	1024.8	1024.0	1023.0	1021.8	1020.5	1019.0	1017.7	1016.3
137.5°	1077.3	1076.2	1075.7	1075.2	1074.7	1074.2	1073.1	1071.3	1069.5	1067.8	1066.0
140°	1109.5	1108.5	1107.9	1107.1	1106.4	1105.7	1104.7	1103.3	1102.0	1100.5	1099.2
142.5°	1140.0	1139.2	1138.5	1137.8	1137.1	1136.4	1135.4	1134.0	1132.7	1131.2	1129.9
145°	1182.5	1182.1	1181.6	1181.2	1180.7	1180.3	1179.2	1177.6	1176.0	1174.4	1172.8
147.5°	1220.5	1219.9	1219.5	1219.1	1218.6	1218.2	1217.4	1216.3	1215.3	1214.2	1213.2
150°	1243.7	1243.2	1242.8	1242.2	1241.8	1241.4	1240.8	1240.1	1239.4	1238.7	1238.1
152.5°	1263.9	1263.1	1262.8	1262.6	1262.2	1261.9	1261.7	1261.3	1261.1	1260.7	1260.4
155°	1292.0	1290.8	1290.7	1290.4	1290.1	1289.9	1290.0	1290.5	1290.9	1291.5	1291.9
157.5°	1316.5	1315.1	1315.4	1315.5	1315.8	1316.0	1316.2	1316.2	1316.3	1316.3	1316.3
160°	1330.6	1329.2	1329.5	1329.6	1329.9	1330.1	1330.3	1330.6	1330.8	1331.1	1331.2
162.5°	1343.2	1341.6	1341.8	1342.1	1342.3	1342.6	1342.9	1343.5	1344.2	1344.8	1345.3
165°	1360.0	1358.2	1358.4	1358.6	1358.9	1359.1	1359.6	1360.3	1360.9	1361.6	1362.4
167.5°	1373.3	1371.5	1371.5	1371.5	1371.5	1371.5	1371.9	1372.9	1373.8	1374.7	1375.6
170°	1380.7	1378.9	1378.9	1378.9	1378.9	1378.9	1379.4	1380.3	1381.3	1382.2	1383.0
172.5°	1385.7	1383.8	1383.7	1383.5	1383.3	1383.1	1383.6	1384.7	1385.8	1387.0	1388.0
175°	1392.0	1390.3	1390.1	1389.8	1389.6	1389.4	1389.8	1391.0	1392.1	1393.3	1394.5
177.5°	1394.3	1392.8	1392.6	1392.4	1392.2	1392.0	1392.4	1393.4	1394.3	1395.2	1396.2
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1455.5	1458.2	1467.8	1474.5	1482.4	1486.8	1491.3	1494.7	1499.1	1500.3	1516.5
5°	1461.9	1476.0	1500.5	1518.7	1541.1	1565.6	1582.4	1590.2	1610.4	1627.3	1660.9
7.5°	1460.1	1490.0	1527.0	1565.3	1606.5	1644.7	1677.8	1717.0	1744.9	1786.8	1828.2
10°	1458.4	1498.3	1546.0	1595.1	1652.5	1705.8	1753.5	1806.7	1850.8	1909.0	1958.7
12.5°	1453.3	1501.7	1567.9	1625.9	1695.7	1769.2	1839.8	1908.2	1947.3	2044.2	2090.0
15°	1440.9	1498.3	1581.0	1669.4	1765.3	1852.3	1942.0	2013.5	2129.0	2213.9	2267.8
17.5°	1417.0	1497.5	1595.6	1702.1	1818.9	1933.4	2035.1	2143.5	2266.2	2368.7	2478.1
20°	1405.9	1494.2	1603.5	1721.2	1842.5	1972.1	2087.8	2218.0	2352.0	2452.8	2593.0
22.5°	1385.1	1485.1	1602.9	1734.1	1863.8	1997.9	2133.2	2264.6	2419.2	2558.2	2691.7
25°	1351.2	1463.3	1585.3	1731.7	1883.8	2018.4	2180.2	2354.7	2516.0	2694.7	2827.8
27.5°	1315.5	1435.3	1557.5	1693.7	1857.3	2017.0	2220.6	2417.8	2614.9	2769.2	2867.7
30°	1288.1	1404.4	1530.6	1667.9	1829.8	2019.7	2247.5	2462.6	2654.7	2787.1	2842.5
32.5°	1258.4	1376.4	1488.0	1632.1	1804.6	2018.0	2264.3	2489.0	2656.9	2745.1	2734.3
35°	1211.7	1310.5	1419.2	1557.9	1761.1	2005.7	2274.1	2491.4	2594.4	2575.5	2432.5
37.5°	1144.4	1227.5	1334.5	1486.4	1710.7	1979.8	2254.5	2417.5	2410.8	2256.7	2049.6
40°	1102.4	1173.1	1276.2	1436.0	1671.4	1963.0	2223.7	2329.5	2239.8	2024.6	1776.6
42.5°	1047.4	1112.6	1215.7	1379.9	1628.3	1928.8	2164.8	2195.5	2020.0	1772.4	1545.0
45°	962.2	1019.7	1126.2	1295.8	1563.5	1854.3	2021.2	1946.2	1709.9	1454.2	1281.1
47.5°	870.7	930.4	1032.9	1207.1	1469.9	1742.4	1821.9	1662.3	1419.9	1212.4	1053.5
50°	813.0	870.4	970.6	1146.6	1406.5	1650.4	1683.4	1477.3	1254.5	1072.3	941.9
52.5°	754.7	808.8	907.3	1083.7	1332.6	1543.9	1523.6	1313.6	1108.7	953.4	851.0
55°	667.9	719.1	813.0	978.3	1204.7	1372.2	1298.6	1098.1	928.5	808.1	730.2
57.5°	590.2	639.3	720.3	869.7	1066.5	1181.6	1088.0	919.1	784.2	691.4	633.4
60°	537.5	580.9	658.1	796.8	967.9	1055.4	963.0	813.7	700.1	625.8	574.0
62.5°	487.6	525.5	596.9	722.8	871.4	944.9	851.3	725.1	628.4	562.5	518.4
65°	412.1	446.4	509.5	607.6	729.5	778.6	698.0	595.7	520.7	471.6	442.2
67.5°	343.1	372.3	426.8	504.0	593.7	629.5	568.1	488.9	432.4	393.0	369.6
70°	297.1	322.4	365.2	431.7	513.0	540.3	482.9	417.7	376.3	344.8	323.1
72.5°	258.4	277.0	315.8	367.2	435.1	456.8	416.7	359.4	320.8	297.1	279.9
75°	196.9	212.3	237.6	278.9	325.9	338.5	308.4	272.6	246.6	229.9	216.5
77.5°	142.0	153.4	171.6	197.1	229.6	240.9	221.9	198.0	179.1	167.7	160.3
80°	107.2	116.4	131.8	152.8	172.4	178.7	167.5	149.3	136.0	129.7	123.3
82.5°	79.2	84.4	93.6	107.9	121.4	128.9	119.3	108.3	101.2	95.4	93.1
85°	39.9	42.7	47.0	52.5	61.0	63.8	60.3	57.4	53.2	49.8	49.8
87.5°	15.2	15.7	17.8	19.4	22.2	24.5	24.5	24.0	24.1	23.6	23.3
90°	3.3	5.6	7.9	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.7
92.5°	18.6	18.0	17.3	16.7	17.5	19.8	22.0	24.3	26.5	28.0	29.4
95°	53.8	44.3	34.9	25.4	22.0	24.5	27.0	29.6	32.1	33.7	35.3
97.5°	122.8	118.5	114.3	110.0	99.7	83.1	66.5	49.9	33.3	35.2	37.0
100°	179.7	184.3	188.9	193.5	177.8	142.0	106.0	70.1	34.2	36.0	37.9
102.5°	233.1	236.4	239.7	243.1	225.1	185.8	146.6	107.4	68.1	62.4	56.7
105°	311.3	313.8	316.3	318.9	309.8	289.0	268.3	247.6	226.9	186.1	145.3
107.5°	394.0	396.1	398.1	400.1	402.8	406.1	409.3	412.6	415.9	385.9	356.1
110°	449.4	451.2	453.1	455.0	457.1	459.7	462.2	464.7	467.3	459.7	452.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	502.2	503.9	505.6	507.2	509.3	511.8	514.4	516.9	519.4	519.6	519.7
115°	580.5	581.8	583.3	584.6	586.4	588.4	590.5	592.6	594.7	597.0	599.2
117.5°	656.8	658.5	660.3	662.0	663.3	664.4	665.5	666.6	667.6	669.4	671.3
120°	704.5	706.6	708.6	710.7	712.1	712.7	713.5	714.2	714.8	716.7	718.5
122.5°	752.2	753.9	755.5	757.3	758.6	759.5	760.4	761.2	762.1	763.4	764.6
125°	818.2	820.0	821.9	823.8	825.1	826.0	827.0	827.9	828.8	829.3	829.7
127.5°	882.0	883.9	885.7	887.5	889.0	890.1	891.3	892.3	893.4	894.2	894.9
130°	921.9	923.6	925.5	927.3	928.7	929.6	930.6	931.5	932.4	933.4	934.2
132.5°	959.9	961.8	963.6	965.5	966.7	967.5	968.2	968.9	969.7	970.6	971.5
135°	1017.7	1019.0	1020.5	1021.8	1023.0	1024.0	1024.8	1025.7	1026.7	1027.3	1028.1
137.5°	1067.8	1069.5	1071.3	1073.1	1074.2	1074.7	1075.2	1075.7	1076.2	1077.3	1078.4
140°	1100.5	1102.0	1103.3	1104.7	1105.7	1106.4	1107.1	1107.9	1108.5	1109.5	1110.4
142.5°	1131.2	1132.7	1134.0	1135.4	1136.4	1137.1	1137.8	1138.5	1139.2	1140.0	1140.7
145°	1174.4	1176.0	1177.6	1179.2	1180.3	1180.7	1181.2	1181.6	1182.1	1182.5	1183.0
147.5°	1214.2	1215.3	1216.3	1217.4	1218.2	1218.6	1219.1	1219.5	1219.9	1220.5	1220.9
150°	1238.7	1239.4	1240.1	1240.8	1241.4	1241.8	1242.2	1242.8	1243.2	1243.7	1244.1
152.5°	1260.7	1261.1	1261.3	1261.7	1261.9	1262.2	1262.6	1262.8	1263.1	1263.9	1264.7
155°	1291.5	1290.9	1290.5	1290.0	1289.9	1290.1	1290.4	1290.7	1290.8	1292.0	1293.2
157.5°	1316.3	1316.3	1316.2	1316.2	1316.0	1315.8	1315.5	1315.4	1315.1	1316.5	1317.9
160°	1331.1	1330.8	1330.6	1330.3	1330.1	1329.9	1329.6	1329.5	1329.2	1330.6	1331.9
162.5°	1344.8	1344.2	1343.5	1342.9	1342.6	1342.3	1342.1	1341.8	1341.6	1343.2	1344.8
165°	1361.6	1360.9	1360.3	1359.6	1359.1	1358.9	1358.6	1358.4	1358.2	1360.0	1361.9
167.5°	1374.7	1373.8	1372.9	1371.9	1371.5	1371.5	1371.5	1371.5	1371.5	1373.3	1375.1
170°	1382.2	1381.3	1380.3	1379.4	1378.9	1378.9	1378.9	1378.9	1378.9	1380.7	1382.6
172.5°	1387.0	1385.8	1384.7	1383.6	1383.1	1383.3	1383.5	1383.7	1383.8	1385.7	1387.6
175°	1393.3	1392.1	1391.0	1389.8	1389.4	1389.6	1389.8	1390.1	1390.3	1392.0	1393.6
177.5°	1395.2	1394.3	1393.4	1392.4	1392.0	1392.2	1392.4	1392.6	1392.8	1394.3	1395.7
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1522.2	1522.7	1528.9	1533.4	1531.2	1533.9	1535.1
5°	1663.0	1688.3	1701.6	1711.4	1712.1	1712.8	1718.4
7.5°	1862.8	1889.8	1909.6	1939.6	1948.6	1958.7	1955.8
10°	2008.6	2048.4	2082.9	2101.0	2120.7	2149.4	2126.3
12.5°	2144.7	2215.5	2267.8	2296.2	2314.6	2320.4	2309.1
15°	2369.5	2461.9	2511.7	2510.3	2573.4	2600.8	2558.0
17.5°	2575.5	2660.9	2729.3	2764.3	2816.8	2828.5	2823.2
20°	2701.6	2794.9	2848.1	2908.4	2935.7	2960.2	2964.4
22.5°	2810.4	2894.0	2951.3	3001.4	3024.3	3035.9	3043.0
25°	2922.4	2988.3	3022.6	3040.1	3046.4	3045.0	3035.9
27.5°	2914.6	2919.7	2881.9	2844.7	2811.6	2774.1	2761.2
30°	2839.0	2780.1	2675.0	2615.5	2527.8	2458.4	2486.4
32.5°	2640.0	2522.8	2404.8	2274.6	2166.8	2136.1	2105.2
35°	2253.1	2047.1	1926.5	1786.4	1730.3	1674.3	1635.7
37.5°	1822.8	1663.5	1520.5	1428.8	1372.6	1337.1	1318.1
40°	1576.1	1432.4	1314.7	1240.5	1197.7	1157.7	1152.2
42.5°	1379.4	1245.8	1157.2	1098.1	1056.9	1040.0	1027.7
45°	1129.7	1036.5	977.0	934.9	907.6	897.1	883.1
47.5°	956.2	890.3	845.6	817.0	796.4	788.5	787.5
50°	859.2	804.5	771.6	749.1	733.1	730.2	719.1
52.5°	786.3	739.0	713.3	693.7	682.1	674.2	670.8
55°	682.6	651.0	627.9	616.7	607.6	599.9	599.9
57.5°	597.3	570.9	555.6	546.1	543.2	537.8	534.3
60°	544.6	522.1	510.2	501.8	496.1	496.9	490.5
62.5°	492.9	478.4	467.0	458.6	451.9	452.0	452.5
65°	419.8	408.6	400.2	397.3	393.2	388.3	389.7
67.5°	355.7	345.2	338.7	333.9	332.4	329.8	333.9
70°	309.8	302.0	297.1	292.9	291.5	292.2	295.8
72.5°	267.7	262.3	259.0	257.1	254.0	254.1	256.5
75°	210.3	206.1	203.2	201.2	200.5	200.5	200.5
77.5°	154.4	153.5	152.2	149.1	149.3	150.1	150.3
80°	122.0	119.8	119.1	117.7	115.7	114.2	117.7
82.5°	91.1	89.0	88.3	88.0	84.8	84.5	87.5
85°	49.0	47.0	47.6	47.0	47.0	46.3	46.3
87.5°	22.9	22.6	22.1	22.7	22.3	21.8	23.0
90°	27.6	28.5	29.2	29.7	30.1	30.6	31.1
92.5°	30.9	32.5	33.3	33.5	33.9	34.2	34.4
95°	36.9	38.5	39.3	39.3	39.3	39.3	39.3
97.5°	38.9	40.8	41.7	42.0	42.3	42.4	42.7
100°	39.7	41.6	42.6	42.8	43.1	43.2	43.5
102.5°	51.0	45.3	42.7	43.1	43.5	44.0	44.3
105°	104.6	63.8	43.8	44.2	44.7	45.1	45.6
107.5°	326.2	296.3	266.0	235.3	204.6	173.9	143.2
110°	444.4	436.8	416.6	383.7	350.7	317.8	284.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	519.9	520.0	516.6	509.6	502.7	495.7	488.7
115°	601.5	603.9	605.5	606.4	607.3	608.2	609.1
117.5°	673.2	674.9	676.0	676.2	676.4	676.5	676.7
120°	720.3	722.2	723.1	723.1	723.1	723.1	723.1
122.5°	766.0	767.2	767.9	768.1	768.3	768.6	768.7
125°	830.2	830.6	831.1	831.5	832.1	832.5	832.9
127.5°	895.6	896.3	896.5	896.1	895.6	895.2	894.7
130°	935.1	936.1	936.3	935.9	935.4	935.0	934.5
132.5°	972.5	973.4	973.5	972.9	972.2	971.6	970.9
135°	1028.8	1029.5	1029.5	1028.8	1028.1	1027.3	1026.7
137.5°	1079.5	1080.6	1080.9	1080.5	1080.0	1079.6	1079.1
140°	1111.3	1112.2	1112.4	1112.0	1111.5	1111.1	1110.6
142.5°	1141.4	1142.1	1142.2	1141.6	1140.9	1140.2	1139.6
145°	1183.5	1183.9	1184.1	1184.1	1184.1	1184.1	1184.1
147.5°	1221.4	1221.8	1221.6	1220.5	1219.4	1218.3	1217.3
150°	1244.6	1245.0	1244.9	1244.2	1243.6	1242.9	1242.2
152.5°	1265.6	1266.4	1266.3	1265.2	1264.2	1263.1	1262.0
155°	1294.3	1295.5	1295.3	1294.0	1292.6	1291.2	1289.9
157.5°	1319.2	1320.6	1320.4	1318.7	1316.8	1315.0	1313.2
160°	1333.3	1334.7	1334.6	1333.0	1331.4	1329.7	1328.1
162.5°	1346.3	1347.9	1347.9	1346.5	1345.1	1343.6	1342.2
165°	1363.7	1365.6	1365.7	1364.1	1362.4	1360.8	1359.2
167.5°	1377.0	1378.9	1378.9	1377.0	1375.1	1373.3	1371.5
170°	1384.5	1386.3	1386.3	1384.5	1382.6	1380.7	1378.9
172.5°	1389.4	1391.2	1391.2	1389.1	1387.1	1385.1	1383.0
175°	1395.2	1396.8	1396.6	1394.8	1392.9	1391.2	1389.3
177.5°	1397.2	1398.6	1398.5	1396.7	1394.8	1392.9	1391.2
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5

(END OF REPORT)