

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: P332205-935

Luminaire Tested: **S123DIW-S1000D1535U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332205-935
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: S123DIW-S1000D1535U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8234.1 lumens
Efficiency: N/A
Efficacy: 107.5 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

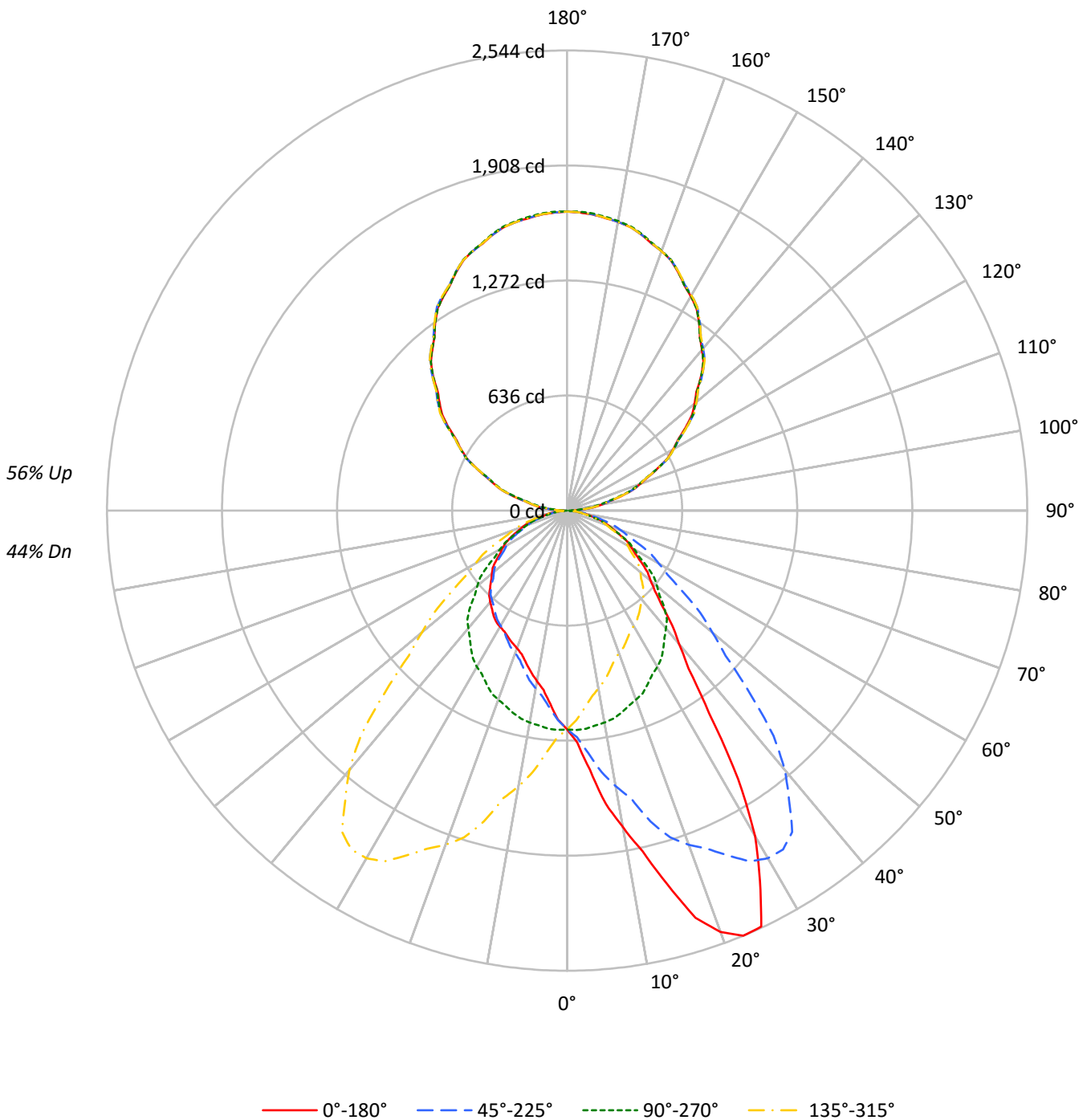
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	71	68	66	58	56	55	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13017	13017	13017	13017
5°	15524	13073	11585	13073
10°	19429	13007	10463	13007
15°	23832	12902	9742	12902
20°	28389	12739	9275	12739
25°	30144	12539	9171	12539
30°	25838	12394	9220	12394
35°	17969	12188	9315	12188
40°	13534	11946	9286	11946
45°	11237	11586	9168	11586
50°	10068	10851	9085	10851
55°	9411	10061	8972	10061
60°	8829	9233	8880	9233
65°	8298	8418	8596	8418
70°	7783	7487	8186	7487
75°	6970	6554	7507	6554
80°	6100	5374	6465	5374
85°	4780	3903	4335	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.4
10°-20°	382.0	4.6
20°-30°	641.1	7.8
30°-40°	725.9	8.8
40°-50°	651.0	7.9
50°-60°	525.3	6.4
60°-70°	366.1	4.4
70°-80°	192.4	2.3
80°-90°	51.9	0.6
90°-100°	107.7	1.3
100°-110°	322.3	3.9
110°-120°	548.1	6.7
120°-130°	721.0	8.8
130°-140°	810.4	9.8
140°-150°	796.6	9.7
150°-160°	670.6	8.1
160°-170°	446.4	5.4
170°-180°	156.3	1.9
0°-30°	1142.2	13.9
0°-40°	1868.1	22.7
0°-60°	3044.4	37.0
0°-90°	3654.8	44.4
90°-120°	978.1	11.9
90°-150°	3306.0	40.2
90°-180°	4579.0	55.6
0°-180°	8234.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1209	1209	1209	1209	1209	
5°	1437	1210	1072	1210	1437	149
15°	2139	1158	874	1158	2139	617
25°	2538	1056	772	1056	2538	1113
35°	1368	928	709	928	1368	888
45°	738	761	602	761	738	584
55°	502	536	478	536	502	450
65°	326	330	338	330	326	324
75°	168	158	180	158	168	179
85°	39	32	35	32	39	47
90°	39	1	39	1	39	21
95°	101	77	101	77	101	104
105°	309	292	309	292	309	328
115°	553	552	553	552	553	548
125°	798	808	798	808	798	714
135°	1046	1048	1046	1048	1046	805
145°	1271	1271	1271	1271	1271	793
155°	1453	1455	1453	1455	1453	669
165°	1580	1585	1580	1585	1580	446
175°	1642	1649	1642	1649	1642	156
180°	1653	1653	1653	1653	1653	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1283.3	1282.5	1280.0	1281.9	1278.2	1273.1	1272.6	1267.9	1254.3	1253.4	1249.7
5°	1436.7	1431.9	1431.3	1430.8	1422.5	1411.4	1390.3	1388.6	1360.5	1346.4	1329.4
7.5°	1635.1	1637.6	1629.0	1621.5	1596.5	1579.9	1557.3	1528.4	1493.8	1458.8	1435.5
10°	1777.6	1797.0	1773.0	1756.5	1741.3	1712.6	1679.2	1637.6	1596.0	1547.4	1510.5
12.5°	1930.4	1939.9	1935.1	1919.7	1896.0	1852.3	1793.1	1747.3	1709.0	1628.0	1595.3
15°	2138.6	2174.3	2151.5	2098.7	2099.9	2058.3	1980.9	1896.0	1850.9	1779.9	1683.3
17.5°	2360.3	2364.7	2355.0	2311.0	2281.7	2224.6	2153.2	2071.7	1980.4	1894.5	1792.1
20°	2478.4	2474.9	2454.4	2431.5	2381.1	2336.6	2258.7	2167.8	2050.6	1966.3	1854.4
22.5°	2544.0	2538.1	2528.4	2509.3	2467.4	2419.6	2349.6	2250.3	2138.8	2022.6	1893.3
25°	2538.1	2545.7	2546.9	2541.7	2527.0	2498.3	2443.2	2364.1	2252.8	2103.4	1968.7
27.5°	2308.4	2319.3	2350.5	2378.3	2409.3	2441.0	2436.8	2397.5	2315.1	2186.1	2021.4
30°	2078.8	2055.4	2113.3	2186.6	2236.4	2324.3	2373.5	2376.4	2330.1	2219.4	2058.8
32.5°	1760.1	1785.8	1811.5	1901.6	2010.4	2109.1	2207.1	2286.0	2295.0	2221.3	2080.9
35°	1367.5	1399.7	1446.6	1493.5	1610.7	1711.4	1883.7	2033.7	2153.2	2169.0	2082.8
37.5°	1102.0	1117.9	1147.5	1194.6	1271.2	1390.7	1524.0	1713.6	1886.7	2015.5	2021.1
40°	963.2	967.9	1001.3	1037.1	1099.2	1197.6	1317.7	1485.2	1692.6	1872.6	1947.6
42.5°	859.2	869.4	883.6	918.0	967.4	1041.5	1153.1	1291.7	1481.8	1688.8	1835.5
45°	738.2	749.9	758.7	781.6	816.7	866.5	944.5	1071.0	1215.7	1429.6	1627.0
47.5°	658.3	659.3	665.8	683.0	707.0	744.3	799.4	880.7	1013.6	1187.1	1389.7
50°	601.2	610.5	612.9	626.3	645.1	672.6	718.3	787.5	896.5	1048.8	1235.1
52.5°	560.9	563.6	570.2	580.0	596.3	617.8	657.4	711.5	797.0	926.9	1098.2
55°	501.5	501.5	508.0	515.6	525.0	544.3	570.7	610.5	675.5	776.4	918.1
57.5°	446.7	449.6	454.2	456.5	464.5	477.3	499.3	529.5	578.1	655.7	768.4
60°	410.1	415.4	414.8	419.5	426.5	436.5	455.2	479.8	523.2	585.3	680.3
62.5°	378.2	377.9	377.8	383.4	390.5	399.9	412.2	433.4	470.3	525.3	606.1
65°	325.8	324.6	328.7	332.2	334.6	341.6	350.9	369.7	394.3	435.3	498.0
67.5°	279.1	275.7	277.9	279.1	283.1	288.6	297.4	309.0	328.6	361.5	408.7
70°	247.3	244.4	243.7	244.9	248.4	252.5	259.0	270.1	288.3	314.6	349.2
72.5°	214.5	212.4	212.3	214.9	216.5	219.2	223.8	234.0	248.4	268.2	300.5
75°	167.6	167.6	167.6	168.2	169.9	172.3	175.7	181.1	192.2	206.2	227.9
77.5°	125.6	125.5	124.8	124.7	127.3	128.3	129.2	134.1	140.3	149.7	165.6
80°	98.4	95.5	96.7	98.4	99.6	100.2	101.9	103.1	108.4	113.7	124.8
82.5°	73.1	70.7	70.9	73.6	73.8	74.4	76.2	77.8	79.8	84.6	90.6
85°	38.7	38.7	39.3	39.3	39.9	39.3	41.0	41.6	41.6	44.5	48.0
87.5°	21.9	20.8	21.2	21.5	20.9	21.2	21.4	21.7	22.0	22.1	21.9
90°	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5	32.3	31.2	27.4
92.5°	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7	50.8	49.9	47.7
95°	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4	97.2	96.1	93.8
97.5°	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0	151.7	150.3	148.7
100°	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6	191.7	190.9	189.4
102.5°	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3	237.5	236.5	234.6
105°	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4	306.4	306.4	303.8
107.5°	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2	379.3	378.3	377.3
110°	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5	428.3	427.1	426.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7	477.3	476.0	475.9
115°	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7	553.4	553.1	553.7
117.5°	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3	629.4	629.5	630.2
120°	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8	680.0	680.4	681.7
122.5°	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7	731.5	732.3	733.1
125°	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6	807.7	808.9	809.4
127.5°	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5	883.0	884.7	885.4
130°	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2	932.4	933.5	934.4
132.5°	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6	980.9	982.3	982.9
135°	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0	1053.1	1054.3	1054.6
137.5°	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7	1123.9	1125.2	1124.4
140°	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5
142.5°	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9	1213.1	1213.4	1212.9
145°	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9	1277.3	1277.6	1276.7
147.5°	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9	1374.9	1374.9	1374.3
152.5°	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1	1408.7	1408.2	1407.8
155°	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1	1457.9	1456.7	1456.5
157.5°	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0	1500.8	1499.6	1499.3
160°	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4	1527.0	1525.5	1525.5
162.5°	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3	1552.0	1550.5	1550.2
165°	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8	1583.1	1581.4	1581.4
167.5°	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8	1606.6
170°	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3	1620.3
172.5°	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3	1633.6	1631.8	1631.8
175°	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2	1645.5	1643.7	1643.7
177.5°	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4	1651.1	1649.7	1649.7
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1246.8	1243.0	1239.3	1232.8	1227.1	1219.2	1216.8	1214.0	1205.6	1198.1	1192.4
5°	1322.9	1308.9	1288.4	1269.6	1254.4	1233.9	1222.2	1209.9	1192.3	1176.5	1163.6
7.5°	1402.7	1375.0	1343.2	1308.6	1276.6	1245.6	1220.6	1198.4	1173.8	1150.5	1132.3
10°	1465.9	1426.1	1381.6	1333.5	1292.5	1252.7	1219.3	1190.0	1158.3	1130.8	1107.9
12.5°	1538.1	1479.0	1417.6	1359.3	1310.8	1255.5	1215.0	1177.8	1141.9	1108.8	1083.1
15°	1623.5	1548.5	1475.9	1395.6	1321.8	1252.7	1204.6	1157.8	1116.1	1082.2	1049.4
17.5°	1701.3	1616.4	1520.6	1423.1	1333.9	1252.0	1184.7	1131.7	1079.7	1038.1	1005.4
20°	1745.4	1648.7	1540.3	1439.0	1340.6	1249.1	1175.4	1112.1	1055.8	1011.8	974.9
22.5°	1783.4	1670.3	1558.2	1449.8	1340.1	1241.6	1158.0	1092.9	1031.9	988.9	949.6
25°	1822.7	1687.4	1574.9	1447.8	1325.3	1223.4	1129.6	1055.8	994.9	944.5	904.0
27.5°	1856.5	1686.3	1552.7	1416.0	1302.1	1199.9	1099.8	1020.6	956.0	901.2	860.2
30°	1879.0	1688.6	1529.8	1394.5	1279.6	1174.1	1076.9	997.2	929.3	873.6	834.9
32.5°	1893.1	1687.1	1508.7	1364.4	1244.0	1150.7	1052.1	969.6	899.7	845.0	807.7
35°	1901.3	1676.9	1472.4	1302.4	1186.5	1095.6	1013.1	927.5	854.3	803.3	761.1
37.5°	1884.8	1655.2	1430.2	1242.7	1115.7	1026.2	956.7	883.9	813.8	757.7	721.3
40°	1859.1	1641.2	1397.4	1200.5	1067.0	980.8	921.6	850.2	781.0	727.7	693.7
42.5°	1809.8	1612.5	1361.3	1153.7	1016.3	930.1	875.7	816.0	750.5	700.5	666.5
45°	1689.7	1550.3	1307.2	1083.3	941.5	852.5	804.4	761.1	701.9	653.2	624.0
47.5°	1523.1	1456.6	1228.9	1009.2	863.5	777.8	727.9	693.0	649.8	610.5	582.4
50°	1407.3	1379.8	1175.9	958.6	811.5	727.7	679.7	648.0	617.0	577.7	551.9
52.5°	1273.8	1290.7	1114.0	906.0	758.5	676.1	630.9	605.8	577.6	545.4	522.9
55°	1085.7	1147.2	1007.2	817.9	679.7	601.2	558.4	536.1	519.7	495.7	476.3
57.5°	909.6	987.8	891.7	727.1	602.2	534.4	493.4	469.2	458.7	446.1	430.8
60°	805.0	882.4	809.2	666.2	550.2	485.7	449.4	428.9	418.4	409.6	396.7
62.5°	711.8	790.1	728.5	604.3	499.0	439.3	407.7	387.6	379.4	374.9	363.9
65°	583.6	650.9	609.9	508.0	425.9	373.2	344.5	330.5	322.9	321.1	314.0
67.5°	474.9	526.2	496.4	421.4	356.8	311.3	286.9	274.9	269.1	268.5	263.2
70°	403.7	451.8	428.9	360.9	305.2	269.5	248.4	237.9	234.4	233.8	230.8
72.5°	348.4	381.9	363.7	307.0	264.0	231.5	216.1	205.1	201.0	201.9	199.9
75°	257.8	283.0	272.4	233.2	198.6	177.5	164.6	157.6	154.1	155.8	153.5
77.5°	185.5	201.5	191.9	164.8	143.4	128.2	118.7	114.3	111.2	111.1	110.0
80°	140.0	149.4	144.1	127.7	110.1	97.3	89.6	86.7	85.0	84.4	83.8
82.5°	99.7	107.7	101.5	90.2	78.3	70.5	66.2	62.3	61.0	61.4	60.8
85°	50.4	53.3	51.0	43.9	39.3	35.7	33.4	31.6	30.5	31.1	29.9
87.5°	22.0	21.8	19.6	17.1	15.6	13.6	13.0	11.5	11.1	11.7	11.8
90°	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3	4.2	7.1	10.0
92.5°	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4	33.4	35.3	37.3
95°	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6	78.6	80.7	82.7
97.5°	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0	137.6	139.1	140.6
100°	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6	178.3	180.0	181.8
102.5°	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3	224.4	225.4	226.4
105°	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1	292.7	293.3	293.9
107.5°	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1	372.5	372.8	373.2
110°	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0	422.6	423.1	423.7



TEST NUMBER: P332205-935

CATALOG NUMBER: S123DIW-S1000D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9	474.2	474.6	474.9
115°	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8	552.7	553.5	554.4
117.5°	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3	630.8	631.4	632.0
120°	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1	680.8	682.5	684.2
122.5°	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0	731.2	732.5	733.7
125°	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5	808.4	809.3	810.2
127.5°	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3	881.1	883.0	884.8
130°	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0	929.4	931.6	933.9
132.5°	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8	977.1	979.4	981.7
135°	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8	1049.5	1051.2	1052.9
137.5°	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3	1116.7	1118.2	1119.6
140°	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0	1163.5	1164.9	1166.3
142.5°	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6	1206.0	1207.5	1208.9
145°	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1	1271.7	1272.2	1272.8
147.5°	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2	1330.2	1331.3	1332.4
150°	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8	1370.4	1370.9	1371.5
152.5°	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0	1403.8	1404.6	1405.4
155°	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1	1499.8	1499.4	1499.1
160°	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2	1527.6	1527.0	1526.4
162.5°	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1	1552.3	1551.4	1550.7
165°	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3	1584.4	1583.6	1582.7
167.5°	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0	1609.8	1608.7	1607.5
170°	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5	1624.4	1623.2	1622.0
172.5°	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9	1635.8	1634.6	1633.5
175°	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9	1647.8	1646.6	1645.5
177.5°	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8	1652.9	1652.0	1651.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332205-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1189.1	1185.9	1181.2	1174.1	1168.5	1159.6	1159.6	1161.1	1161.1	1160.5	1159.6
5°	1153.1	1144.3	1133.8	1121.5	1108.5	1095.6	1093.3	1088.6	1085.1	1082.7	1079.8
7.5°	1115.0	1099.4	1084.0	1066.8	1051.1	1038.1	1029.1	1021.6	1016.8	1011.6	1007.9
10°	1089.2	1069.9	1051.7	1033.5	1013.6	997.8	987.8	980.8	975.5	970.9	968.5
12.5°	1058.7	1036.6	1016.6	999.3	977.5	961.2	951.7	948.5	942.3	932.4	927.2
15°	1014.2	993.7	969.7	943.3	932.7	912.8	901.7	896.5	892.9	885.3	883.0
17.5°	976.1	949.3	922.3	902.7	883.0	866.9	860.7	854.1	849.5	843.3	841.4
20°	945.6	921.6	897.0	875.9	855.4	837.8	832.6	827.9	823.2	820.3	817.9
22.5°	914.7	890.7	870.3	850.6	828.7	817.2	811.5	806.3	803.1	801.1	798.7
25°	871.2	850.2	827.3	809.7	792.1	784.5	781.0	778.1	775.8	772.8	772.2
27.5°	832.3	809.3	790.8	774.5	761.8	755.4	752.1	750.6	751.1	752.2	752.9
30°	803.3	782.2	767.0	752.9	741.1	735.3	734.7	734.7	737.1	737.6	738.8
32.5°	776.5	759.2	744.0	730.4	721.5	717.5	719.7	719.7	721.6	723.2	725.2
35°	737.6	722.4	710.7	699.0	691.4	693.1	694.3	695.4	698.4	701.9	704.3
37.5°	700.5	687.3	675.1	665.9	662.5	665.6	668.4	670.9	674.2	676.9	679.3
40°	673.8	663.8	652.1	643.9	645.1	646.9	649.2	652.1	655.0	656.8	659.2
42.5°	648.9	638.5	629.6	622.8	624.5	626.7	628.1	629.6	633.0	636.2	637.6
45°	611.1	602.9	594.7	590.6	591.8	593.0	594.1	595.9	598.8	601.2	601.8
47.5°	568.5	562.8	557.3	553.4	555.2	554.7	556.3	560.0	560.9	562.3	565.6
50°	541.4	536.1	529.7	528.5	528.5	528.5	529.1	533.7	533.7	536.1	538.5
52.5°	511.3	508.0	503.9	501.8	500.8	500.8	503.3	505.7	506.6	509.9	512.2
55°	467.0	463.5	459.9	458.1	457.0	458.1	462.9	464.0	467.0	468.7	470.5
57.5°	420.7	418.0	415.2	414.2	414.0	415.5	418.1	421.6	422.3	427.7	430.4
60°	390.2	386.1	383.7	383.7	382.6	387.9	386.7	392.5	393.7	397.3	401.3
62.5°	358.8	353.3	352.3	352.3	354.0	355.5	357.1	359.7	362.8	367.2	370.4
65°	308.2	305.2	309.4	308.8	307.6	311.1	311.1	314.0	317.5	321.7	328.1
67.5°	260.3	258.7	259.1	259.1	260.9	262.9	264.5	267.1	271.3	275.6	279.8
70°	227.9	229.7	226.8	229.1	230.8	231.4	232.6	236.1	240.8	243.7	248.4
72.5°	196.5	196.4	196.7	197.7	199.4	200.5	201.6	205.7	210.8	213.3	217.1
75°	151.2	150.6	152.3	152.3	155.2	156.4	157.6	159.4	164.0	167.6	170.5
77.5°	110.4	111.1	110.7	112.7	111.9	112.1	115.8	117.5	118.0	124.9	126.5
80°	83.2	84.4	85.0	85.6	86.1	85.0	89.0	90.8	90.8	94.9	97.8
82.5°	59.8	60.4	62.0	62.6	62.7	63.9	64.2	65.5	66.9	68.7	72.5
85°	29.9	31.6	32.2	31.6	32.2	31.1	32.8	33.4	34.0	34.0	34.0
87.5°	12.0	13.1	13.3	14.6	14.9	16.1	16.3	15.6	15.8	17.5	15.8
90°	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5	34.6	35.8	36.7
92.5°	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7	52.6	53.6	53.8
95°	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4	99.5	100.7	101.3
97.5°	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0	154.3	155.7	156.3
100°	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6	193.5	194.3	195.0
102.5°	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3	239.2	240.0	240.4
105°	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4	306.4	306.4	306.7
107.5°	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2	381.1	382.0	382.3
110°	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5	430.6	431.8	432.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7	480.1	481.5	482.2
115°	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7	554.0	554.2	554.2
117.5°	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3	629.3	629.2	628.8
120°	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8	679.5	679.2	678.7
122.5°	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7	730.0	729.3	728.5
125°	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6	805.4	804.3	803.1
127.5°	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5	879.9	878.2	876.8
130°	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2	930.1	928.9	927.3
132.5°	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6	978.2	976.8	975.3
135°	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0	1050.8	1049.6	1048.8
137.5°	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7	1121.5	1120.3	1119.1
140°	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.5
142.5°	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9	1212.5	1212.3	1211.3
145°	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9	1276.7	1276.4	1275.7
147.5°	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9	1374.9	1374.9	1374.1
152.5°	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1	1409.5	1410.1	1409.5
155°	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1	1460.2	1461.4	1460.9
157.5°	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0	1503.2	1504.4	1504.3
160°	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4	1529.9	1531.3	1531.5
162.5°	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3	1554.8	1556.3	1556.1
165°	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8	1586.6	1588.3	1588.2
167.5°	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9
170°	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4
172.5°	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3	1637.1	1638.9	1638.8
175°	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2	1648.9	1650.6	1650.5
177.5°	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4	1653.8	1655.2	1655.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1156.3	1155.9	1159.2	1156.8	1159.2	1155.9	1156.3	1159.6	1160.5	1161.1	1161.1
5°	1076.3	1078.1	1072.2	1072.2	1072.2	1078.1	1076.3	1079.8	1082.7	1085.1	1088.6
7.5°	1005.0	1002.5	1002.7	999.5	1002.7	1002.5	1005.0	1007.9	1011.6	1016.8	1021.6
10°	961.5	957.9	956.7	957.3	956.7	957.9	961.5	968.5	970.9	975.5	980.8
12.5°	925.4	924.7	917.0	917.1	917.0	924.7	925.4	927.2	932.4	942.3	948.5
15°	883.0	871.8	870.6	874.2	870.6	871.8	883.0	883.0	885.3	892.9	896.5
17.5°	840.4	834.6	834.9	833.2	834.9	834.6	840.4	841.4	843.3	849.5	854.1
20°	817.9	814.4	813.8	809.7	813.8	814.4	817.9	817.9	820.3	823.2	827.9
22.5°	797.3	796.2	796.5	791.9	796.5	796.2	797.3	798.7	801.1	803.1	806.3
25°	771.6	774.6	772.2	772.2	772.2	774.6	771.6	772.2	772.8	775.8	778.1
27.5°	754.3	754.1	753.0	753.0	753.0	754.1	754.3	752.9	752.2	751.1	750.6
30°	741.1	740.5	741.8	741.8	741.8	740.5	741.1	738.8	737.6	737.1	734.7
32.5°	728.1	728.8	729.1	729.5	729.1	728.8	728.1	725.2	723.2	721.6	719.7
35°	707.7	708.3	710.2	708.9	710.2	708.3	707.7	704.3	701.9	698.4	695.4
37.5°	680.4	683.0	682.4	683.4	682.4	683.0	680.4	679.3	676.9	674.2	670.9
40°	659.7	661.5	660.9	660.9	660.9	661.5	659.7	659.2	656.8	655.0	652.1
42.5°	638.6	639.9	638.4	637.5	638.4	639.9	638.6	637.6	636.2	633.0	629.6
45°	604.1	602.9	604.7	602.3	604.7	602.9	604.1	601.8	601.2	598.8	595.9
47.5°	565.4	566.5	567.1	568.8	567.1	566.5	565.4	565.6	562.3	560.9	560.0
50°	539.6	543.1	543.1	542.5	543.1	543.1	539.6	538.5	536.1	533.7	533.7
52.5°	514.3	515.9	518.3	518.1	518.3	515.9	514.3	512.2	509.9	506.6	505.7
55°	475.2	476.3	477.5	478.1	477.5	476.3	475.2	470.5	468.7	467.0	464.0
57.5°	434.6	434.1	437.0	437.8	437.0	434.1	434.6	430.4	427.7	422.3	421.6
60°	406.0	406.0	410.7	412.5	410.7	406.0	406.0	401.3	397.3	393.7	392.5
62.5°	375.6	377.5	382.1	379.7	382.1	377.5	375.6	370.4	367.2	362.8	359.7
65°	331.1	335.7	335.1	337.5	335.1	335.7	331.1	328.1	321.7	317.5	314.0
67.5°	284.5	287.4	291.6	292.1	291.6	287.4	284.5	279.8	275.6	271.3	267.1
70°	253.1	256.1	258.4	260.1	258.4	256.1	253.1	248.4	243.7	240.8	236.1
72.5°	222.7	224.2	229.8	227.3	229.8	224.2	222.7	217.1	213.3	210.8	205.7
75°	174.6	178.7	182.2	180.5	182.2	178.7	174.6	170.5	167.6	164.0	159.4
77.5°	129.2	133.2	134.8	133.4	134.8	133.2	129.2	126.5	124.9	118.0	117.5
80°	101.9	101.3	104.9	104.3	104.9	101.3	101.9	97.8	94.9	90.8	90.8
82.5°	74.7	74.2	75.9	76.2	75.9	74.2	74.7	72.5	68.7	66.9	65.5
85°	36.3	38.1	35.7	35.1	35.7	38.1	36.3	34.0	34.0	34.0	33.4
87.5°	15.8	16.0	15.7	15.3	15.7	16.0	15.8	15.8	17.5	15.8	15.6
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5
92.5°	53.5	53.1	52.8	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7
95°	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4
97.5°	156.2	156.0	155.9	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0
100°	195.6	196.2	196.7	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6
102.5°	240.3	240.1	240.0	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3
105°	307.3	307.9	308.4	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4
107.5°	381.9	381.6	381.3	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2
110°	431.4	430.9	430.3	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5



TEST NUMBER: P332205-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.1	481.9	481.8	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7
115°	554.0	553.7	553.4	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7
117.5°	627.9	627.2	626.4	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3
120°	678.2	677.6	677.0	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8
122.5°	727.7	726.9	726.1	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7
125°	801.9	800.8	799.6	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6
127.5°	875.5	874.1	872.8	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5
130°	925.3	923.3	921.3	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2
132.5°	973.8	972.2	970.6	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6
135°	1048.2	1047.6	1047.1	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0
137.5°	1118.0	1117.0	1115.9	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7
140°	1165.4	1163.5	1161.4	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2
142.5°	1209.8	1208.2	1206.7	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9
145°	1274.5	1273.4	1272.2	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9
147.5°	1335.0	1333.3	1331.5	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6
150°	1372.3	1370.6	1368.9	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9
152.5°	1408.0	1406.5	1405.0	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1
155°	1458.9	1456.9	1454.8	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1
157.5°	1502.6	1501.0	1499.3	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0
160°	1530.3	1529.1	1528.0	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4
162.5°	1554.2	1552.4	1550.5	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3
165°	1586.1	1584.2	1582.1	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8
167.5°	1612.2	1610.4	1608.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4
170°	1626.4	1624.4	1622.4	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4
172.5°	1636.8	1634.8	1632.7	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3
175°	1648.5	1646.4	1644.4	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2
177.5°	1653.5	1651.8	1650.3	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332205-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1159.6	1159.6	1168.5	1174.1	1181.2	1185.9	1189.1	1192.4	1198.1	1205.6	1214.0
5°	1093.3	1095.6	1108.5	1121.5	1133.8	1144.3	1153.1	1163.6	1176.5	1192.3	1209.9
7.5°	1029.1	1038.1	1051.1	1066.8	1084.0	1099.4	1115.0	1132.3	1150.5	1173.8	1198.4
10°	987.8	997.8	1013.6	1033.5	1051.7	1069.9	1089.2	1107.9	1130.8	1158.3	1190.0
12.5°	951.7	961.2	977.5	999.3	1016.6	1036.6	1058.7	1083.1	1108.8	1141.9	1177.8
15°	901.7	912.8	932.7	943.3	969.7	993.7	1014.2	1049.4	1082.2	1116.1	1157.8
17.5°	860.7	866.9	883.0	902.7	922.3	949.3	976.1	1005.4	1038.1	1079.7	1131.7
20°	832.6	837.8	855.4	875.9	897.0	921.6	945.6	974.9	1011.8	1055.8	1112.1
22.5°	811.5	817.2	828.7	850.6	870.3	890.7	914.7	949.6	988.9	1031.9	1092.9
25°	781.0	784.5	792.1	809.7	827.3	850.2	871.2	904.0	944.5	994.9	1055.8
27.5°	752.1	755.4	761.8	774.5	790.8	809.3	832.3	860.2	901.2	956.0	1020.6
30°	734.7	735.3	741.1	752.9	767.0	782.2	803.3	834.9	873.6	929.3	997.2
32.5°	719.7	717.5	721.5	730.4	744.0	759.2	776.5	807.7	845.0	899.7	969.6
35°	694.3	693.1	691.4	699.0	710.7	722.4	737.6	761.1	803.3	854.3	927.5
37.5°	668.4	665.6	662.5	665.9	675.1	687.3	700.5	721.3	757.7	813.8	883.9
40°	649.2	646.9	645.1	643.9	652.1	663.8	673.8	693.7	727.7	781.0	850.2
42.5°	628.1	626.7	624.5	622.8	629.6	638.5	648.9	666.5	700.5	750.5	816.0
45°	594.1	593.0	591.8	590.6	594.7	602.9	611.1	624.0	653.2	701.9	761.1
47.5°	556.3	554.7	555.2	553.4	557.3	562.8	568.5	582.4	610.5	649.8	693.0
50°	529.1	528.5	528.5	528.5	529.7	536.1	541.4	551.9	577.7	617.0	648.0
52.5°	503.3	500.8	500.8	501.8	503.9	508.0	511.3	522.9	545.4	577.6	605.8
55°	462.9	458.1	457.0	458.1	459.9	463.5	467.0	476.3	495.7	519.7	536.1
57.5°	418.1	415.5	414.0	414.2	415.2	418.0	420.7	430.8	446.1	458.7	469.2
60°	386.7	387.9	382.6	383.7	383.7	386.1	390.2	396.7	409.6	418.4	428.9
62.5°	357.1	355.5	354.0	352.3	352.3	353.3	358.8	363.9	374.9	379.4	387.6
65°	311.1	311.1	307.6	308.8	309.4	305.2	308.2	314.0	321.1	322.9	330.5
67.5°	264.5	262.9	260.9	259.1	259.1	258.7	260.3	263.2	268.5	269.1	274.9
70°	232.6	231.4	230.8	229.1	226.8	229.7	227.9	230.8	233.8	234.4	237.9
72.5°	201.6	200.5	199.4	197.7	196.7	196.4	196.5	199.9	201.9	201.0	205.1
75°	157.6	156.4	155.2	152.3	152.3	150.6	151.2	153.5	155.8	154.1	157.6
77.5°	115.8	112.1	111.9	112.7	110.7	111.1	110.4	110.0	111.1	111.2	114.3
80°	89.0	85.0	86.1	85.6	85.0	84.4	83.2	83.8	84.4	85.0	86.7
82.5°	64.2	63.9	62.7	62.6	62.0	60.4	59.8	60.8	61.4	61.0	62.3
85°	32.8	31.1	32.2	31.6	32.2	31.6	29.9	29.9	31.1	30.5	31.6
87.5°	16.3	16.1	14.9	14.6	13.3	13.1	12.0	11.8	11.7	11.1	11.5
90°	32.3	31.2	27.4	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3
92.5°	50.8	49.9	47.7	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4
95°	97.2	96.1	93.8	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6
97.5°	151.7	150.3	148.7	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0
100°	191.7	190.9	189.4	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6
102.5°	237.5	236.5	234.6	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3
105°	306.4	306.4	303.8	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1
107.5°	379.3	378.3	377.3	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1
110°	428.3	427.1	426.5	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	477.3	476.0	475.9	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9
115°	553.4	553.1	553.7	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8
117.5°	629.4	629.5	630.2	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3
120°	680.0	680.4	681.7	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1
122.5°	731.5	732.3	733.1	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0
125°	807.7	808.9	809.4	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5
127.5°	883.0	884.7	885.4	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3
130°	932.4	933.5	934.4	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0
132.5°	980.9	982.3	982.9	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8
135°	1053.1	1054.3	1054.6	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8
137.5°	1123.9	1125.2	1124.4	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3
140°	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0
142.5°	1213.1	1213.4	1212.9	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6
145°	1277.3	1277.6	1276.7	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1
147.5°	1337.6	1337.6	1336.7	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2
150°	1374.9	1374.9	1374.3	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8
152.5°	1408.7	1408.2	1407.8	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0
155°	1457.9	1456.7	1456.5	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1500.8	1499.6	1499.3	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1
160°	1527.0	1525.5	1525.5	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2
162.5°	1552.0	1550.5	1550.2	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1
165°	1583.1	1581.4	1581.4	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3
167.5°	1608.6	1606.8	1606.6	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0
170°	1622.4	1620.3	1620.3	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5
172.5°	1633.6	1631.8	1631.8	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9
175°	1645.5	1643.7	1643.7	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9
177.5°	1651.1	1649.7	1649.7	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1216.8	1219.2	1227.1	1232.8	1239.3	1243.0	1246.8	1249.7	1253.4	1254.3	1267.9
5°	1222.2	1233.9	1254.4	1269.6	1288.4	1308.9	1322.9	1329.4	1346.4	1360.5	1388.6
7.5°	1220.6	1245.6	1276.6	1308.6	1343.2	1375.0	1402.7	1435.5	1458.8	1493.8	1528.4
10°	1219.3	1252.7	1292.5	1333.5	1381.6	1426.1	1465.9	1510.5	1547.4	1596.0	1637.6
12.5°	1215.0	1255.5	1310.8	1359.3	1417.6	1479.0	1538.1	1595.3	1628.0	1709.0	1747.3
15°	1204.6	1252.7	1321.8	1395.6	1475.9	1548.5	1623.5	1683.3	1779.9	1850.9	1896.0
17.5°	1184.7	1252.0	1333.9	1423.1	1520.6	1616.4	1701.3	1792.1	1894.5	1980.4	2071.7
20°	1175.4	1249.1	1340.6	1439.0	1540.3	1648.7	1745.4	1854.4	1966.3	2050.6	2167.8
22.5°	1158.0	1241.6	1340.1	1449.8	1558.2	1670.3	1783.4	1893.3	2022.6	2138.8	2250.3
25°	1129.6	1223.4	1325.3	1447.8	1574.9	1687.4	1822.7	1968.7	2103.4	2252.8	2364.1
27.5°	1099.8	1199.9	1302.1	1416.0	1552.7	1686.3	1856.5	2021.4	2186.1	2315.1	2397.5
30°	1076.9	1174.1	1279.6	1394.5	1529.8	1688.6	1879.0	2058.8	2219.4	2330.1	2376.4
32.5°	1052.1	1150.7	1244.0	1364.4	1508.7	1687.1	1893.1	2080.9	2221.3	2295.0	2286.0
35°	1013.1	1095.6	1186.5	1302.4	1472.4	1676.9	1901.3	2082.8	2169.0	2153.2	2033.7
37.5°	956.7	1026.2	1115.7	1242.7	1430.2	1655.2	1884.8	2021.1	2015.5	1886.7	1713.6
40°	921.6	980.8	1067.0	1200.5	1397.4	1641.2	1859.1	1947.6	1872.6	1692.6	1485.2
42.5°	875.7	930.1	1016.3	1153.7	1361.3	1612.5	1809.8	1835.5	1688.8	1481.8	1291.7
45°	804.4	852.5	941.5	1083.3	1307.2	1550.3	1689.7	1627.0	1429.6	1215.7	1071.0
47.5°	727.9	777.8	863.5	1009.2	1228.9	1456.6	1523.1	1389.7	1187.1	1013.6	880.7
50°	679.7	727.7	811.5	958.6	1175.9	1379.8	1407.3	1235.1	1048.8	896.5	787.5
52.5°	630.9	676.1	758.5	906.0	1114.0	1290.7	1273.8	1098.2	926.9	797.0	711.5
55°	558.4	601.2	679.7	817.9	1007.2	1147.2	1085.7	918.1	776.4	675.5	610.5
57.5°	493.4	534.4	602.2	727.1	891.7	987.8	909.6	768.4	655.7	578.1	529.5
60°	449.4	485.7	550.2	666.2	809.2	882.4	805.0	680.3	585.3	523.2	479.8
62.5°	407.7	439.3	499.0	604.3	728.5	790.1	711.8	606.1	525.3	470.3	433.4
65°	344.5	373.2	425.9	508.0	609.9	650.9	583.6	498.0	435.3	394.3	369.7
67.5°	286.9	311.3	356.8	421.4	496.4	526.2	474.9	408.7	361.5	328.6	309.0
70°	248.4	269.5	305.2	360.9	428.9	451.8	403.7	349.2	314.6	288.3	270.1
72.5°	216.1	231.5	264.0	307.0	363.7	381.9	348.4	300.5	268.2	248.4	234.0
75°	164.6	177.5	198.6	233.2	272.4	283.0	257.8	227.9	206.2	192.2	181.1
77.5°	118.7	128.2	143.4	164.8	191.9	201.5	185.5	165.6	149.7	140.3	134.1
80°	89.6	97.3	110.1	127.7	144.1	149.4	140.0	124.8	113.7	108.4	103.1
82.5°	66.2	70.5	78.3	90.2	101.5	107.7	99.7	90.6	84.6	79.8	77.8
85°	33.4	35.7	39.3	43.9	51.0	53.3	50.4	48.0	44.5	41.6	41.6
87.5°	13.0	13.6	15.6	17.1	19.6	21.8	22.0	21.9	22.1	22.0	21.7
90°	4.2	7.1	10.0	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5
92.5°	33.4	35.3	37.3	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7
95°	78.6	80.7	82.7	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4
97.5°	137.6	139.1	140.6	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0
100°	178.3	180.0	181.8	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6
102.5°	224.4	225.4	226.4	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3
105°	292.7	293.3	293.9	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4
107.5°	372.5	372.8	373.2	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2
110°	422.6	423.1	423.7	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	474.2	474.6	474.9	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7
115°	552.7	553.5	554.4	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7
117.5°	630.8	631.4	632.0	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3
120°	680.8	682.5	684.2	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8
122.5°	731.2	732.5	733.7	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7
125°	808.4	809.3	810.2	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6
127.5°	881.1	883.0	884.8	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5
130°	929.4	931.6	933.9	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2
132.5°	977.1	979.4	981.7	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6
135°	1049.5	1051.2	1052.9	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0
137.5°	1116.7	1118.2	1119.6	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7
140°	1163.5	1164.9	1166.3	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2
142.5°	1206.0	1207.5	1208.9	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9
145°	1271.7	1272.2	1272.8	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9
147.5°	1330.2	1331.3	1332.4	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6
150°	1370.4	1370.9	1371.5	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9
152.5°	1403.8	1404.6	1405.4	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1
155°	1455.4	1455.4	1455.4	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1
157.5°	1499.8	1499.4	1499.1	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0
160°	1527.6	1527.0	1526.4	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4
162.5°	1552.3	1551.4	1550.7	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3
165°	1584.4	1583.6	1582.7	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8
167.5°	1609.8	1608.7	1607.5	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4
170°	1624.4	1623.2	1622.0	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4
172.5°	1635.8	1634.6	1633.5	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3
175°	1647.8	1646.6	1645.5	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2
177.5°	1652.9	1652.0	1651.1	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1272.6	1273.1	1278.2	1281.9	1280.0	1282.5	1283.3
5°	1390.3	1411.4	1422.5	1430.8	1431.3	1431.9	1436.7
7.5°	1557.3	1579.9	1596.5	1621.5	1629.0	1637.6	1635.1
10°	1679.2	1712.6	1741.3	1756.5	1773.0	1797.0	1777.6
12.5°	1793.1	1852.3	1896.0	1919.7	1935.1	1939.9	1930.4
15°	1980.9	2058.3	2099.9	2098.7	2151.5	2174.3	2138.6
17.5°	2153.2	2224.6	2281.7	2311.0	2355.0	2364.7	2360.3
20°	2258.7	2336.6	2381.1	2431.5	2454.4	2474.9	2478.4
22.5°	2349.6	2419.6	2467.4	2509.3	2528.4	2538.1	2544.0
25°	2443.2	2498.3	2527.0	2541.7	2546.9	2545.7	2538.1
27.5°	2436.8	2441.0	2409.3	2378.3	2350.5	2319.3	2308.4
30°	2373.5	2324.3	2236.4	2186.6	2113.3	2055.4	2078.8
32.5°	2207.1	2109.1	2010.4	1901.6	1811.5	1785.8	1760.1
35°	1883.7	1711.4	1610.7	1493.5	1446.6	1399.7	1367.5
37.5°	1524.0	1390.7	1271.2	1194.6	1147.5	1117.9	1102.0
40°	1317.7	1197.6	1099.2	1037.1	1001.3	967.9	963.2
42.5°	1153.1	1041.5	967.4	918.0	883.6	869.4	859.2
45°	944.5	866.5	816.7	781.6	758.7	749.9	738.2
47.5°	799.4	744.3	707.0	683.0	665.8	659.3	658.3
50°	718.3	672.6	645.1	626.3	612.9	610.5	601.2
52.5°	657.4	617.8	596.3	580.0	570.2	563.6	560.9
55°	570.7	544.3	525.0	515.6	508.0	501.5	501.5
57.5°	499.3	477.3	464.5	456.5	454.2	449.6	446.7
60°	455.2	436.5	426.5	419.5	414.8	415.4	410.1
62.5°	412.2	399.9	390.5	383.4	377.8	377.9	378.2
65°	350.9	341.6	334.6	332.2	328.7	324.6	325.8
67.5°	297.4	288.6	283.1	279.1	277.9	275.7	279.1
70°	259.0	252.5	248.4	244.9	243.7	244.4	247.3
72.5°	223.8	219.2	216.5	214.9	212.3	212.4	214.5
75°	175.7	172.3	169.9	168.2	167.6	167.6	167.6
77.5°	129.2	128.3	127.3	124.7	124.8	125.5	125.6
80°	101.9	100.2	99.6	98.4	96.7	95.5	98.4
82.5°	76.2	74.4	73.8	73.6	70.9	70.7	73.1
85°	41.0	39.3	39.9	39.3	39.3	38.7	38.7
87.5°	21.4	21.2	20.9	21.5	21.2	20.8	21.9
90°	34.6	35.8	36.7	37.2	37.8	38.4	38.9
92.5°	52.6	53.6	53.8	53.5	53.1	52.8	52.4
95°	99.5	100.7	101.3	101.3	101.3	101.3	101.3
97.5°	154.3	155.7	156.3	156.2	156.0	155.9	155.8
100°	193.5	194.3	195.0	195.6	196.2	196.7	197.3
102.5°	239.2	240.0	240.4	240.3	240.1	240.0	240.0
105°	306.4	306.4	306.7	307.3	307.9	308.4	309.0
107.5°	381.1	382.0	382.3	381.9	381.6	381.3	380.9
110°	430.6	431.8	432.0	431.4	430.9	430.3	429.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	480.1	481.5	482.2	482.1	481.9	481.8	481.6
115°	554.0	554.2	554.2	554.0	553.7	553.4	553.1
117.5°	629.3	629.2	628.8	627.9	627.2	626.4	625.5
120°	679.5	679.2	678.7	678.2	677.6	677.0	676.4
122.5°	730.0	729.3	728.5	727.7	726.9	726.1	725.2
125°	805.4	804.3	803.1	801.9	800.8	799.6	798.5
127.5°	879.9	878.2	876.8	875.5	874.1	872.8	871.4
130°	930.1	928.9	927.3	925.3	923.3	921.3	919.2
132.5°	978.2	976.8	975.3	973.8	972.2	970.6	969.1
135°	1050.8	1049.6	1048.8	1048.2	1047.6	1047.1	1046.5
137.5°	1121.5	1120.3	1119.1	1118.0	1117.0	1115.9	1114.7
140°	1169.0	1168.6	1167.5	1165.4	1163.5	1161.4	1159.4
142.5°	1212.5	1212.3	1211.3	1209.8	1208.2	1206.7	1205.1
145°	1276.7	1276.4	1275.7	1274.5	1273.4	1272.2	1271.1
147.5°	1337.6	1337.6	1336.7	1335.0	1333.3	1331.5	1329.7
150°	1374.9	1374.9	1374.1	1372.3	1370.6	1368.9	1367.2
152.5°	1409.5	1410.1	1409.5	1408.0	1406.5	1405.0	1403.5
155°	1460.2	1461.4	1460.9	1458.9	1456.9	1454.8	1452.9
157.5°	1503.2	1504.4	1504.3	1502.6	1501.0	1499.3	1497.8
160°	1529.9	1531.3	1531.5	1530.3	1529.1	1528.0	1526.8
162.5°	1554.8	1556.3	1556.1	1554.2	1552.4	1550.5	1548.7
165°	1586.6	1588.3	1588.2	1586.1	1584.2	1582.1	1580.1
167.5°	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8
170°	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3
172.5°	1637.1	1638.9	1638.8	1636.8	1634.8	1632.7	1630.7
175°	1648.9	1650.6	1650.5	1648.5	1646.4	1644.4	1642.4
177.5°	1653.8	1655.2	1655.1	1653.5	1651.8	1650.3	1648.6
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8

(END OF REPORT)